PART 1 GENERAL (GEN)

GEN 0

GEN 0.1 PREFACE

1 Publishing Authority

1.1 UK Aeronautical Information products are provided by authority of the UK Civil Aviation Authority (CAA) and UK Crown Dependencies - Isle of Man, Jersey and Guernsey.

The UK Civil Aviation Authority (CAA) is responsible for:

- Regulation of the UK AIS in accordance with CAP 779.
- The form and content of the UK AIP and ensuring that AIS is provided in accordance with ICAO Standards and Recommended Practices, UK legislation and any additional requirements the UK CAA may determine from time to time;
- Regulatory approval of specified aeronautical information and data submitted to the UK AISP in accordance with CAP 1054;
- Provision of data and information to AIS in accordance with the Formal Arrangement established between the CAA and UK AISP.

The Channel Islands Director of Civil Aviation (CI DCA) are responsible for:

- Regulating civil aviation in the Channel Islands, including Jersey (together with Channel Islands Airspace), Guernsey and Alderney airports;
- Ensuring the adoption of relevant UK CAA policy publications on AIS;
- Reviewing the Channel Islands compliance with UK regulatory requirements and standards for data originators and authorised sources providing aeronautical data to UK AIS;
- Provision of data and information to AIS in accordance with the Formal Arrangement established between the CI DCA and AISP.

The Isle of Man Civil Aviation Administration (IOM CAA) is responsible for:

- Regulating civil aviation in the Isle of Man, including Isle of Man Airport;
- Ensuring the adoption of relevant UK CAA policy publications on AIS;
- Reviewing Isle of Man compliance with UK regulatory requirements and standards for data originators and authorised sources providing aeronautical data to UK AIS.

2 Applicable ICAO Documents

- ICAO Annex 15 – Aeronautical Information Service;
- ICAO Annex 4 – Aeronautical Charts;
- ICAO DOC 10066 – PANS AIM;
- ICAO Doc 8126 – AIS Manual;
- ICAO Doc 8697 – Aeronautical Chart Manual.

2.1 Differences to ICAO Standards and Recommended Practices are given at GEN 1.7.

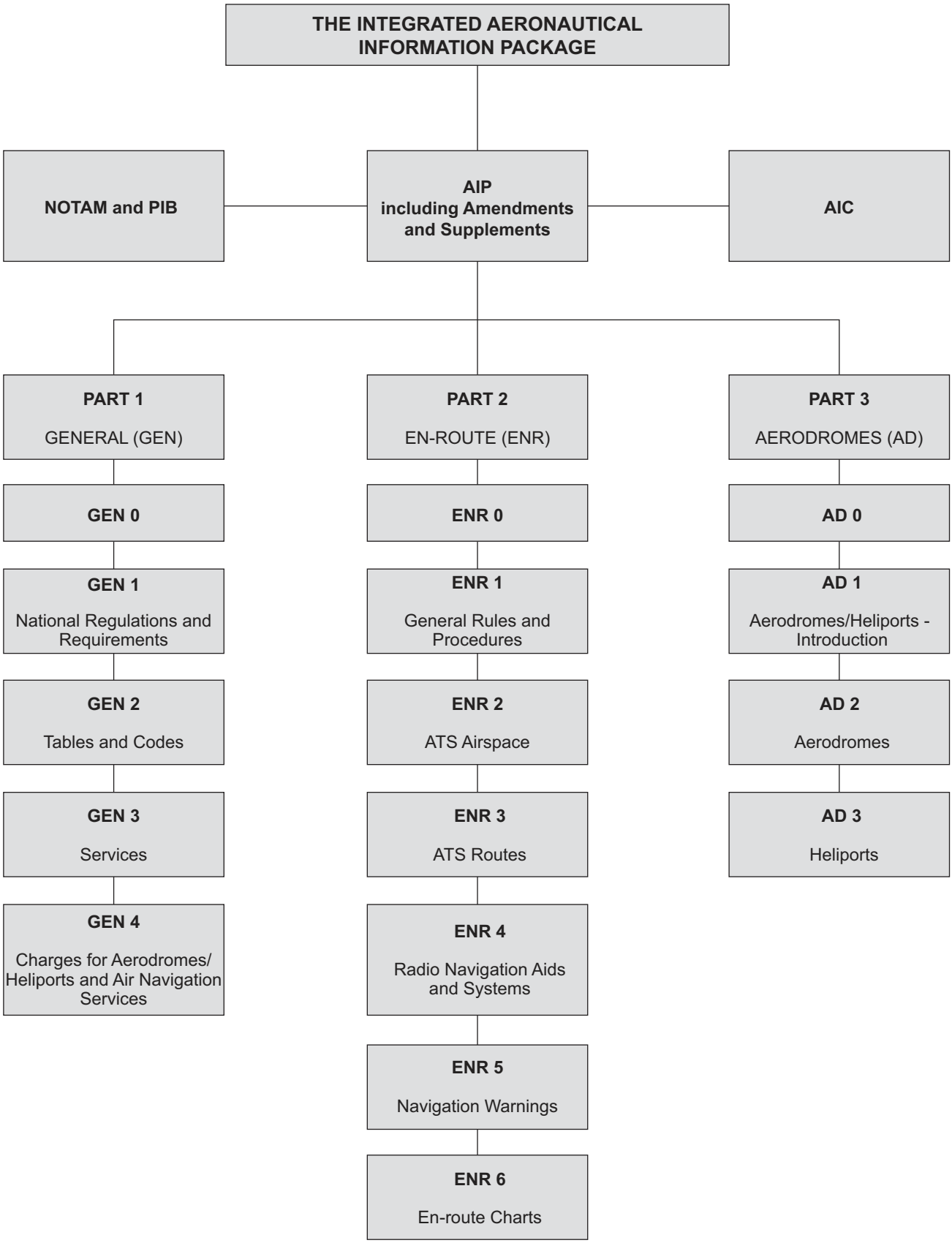
3 Publication Media

3.1 AIS make Aeronautical Information Products (excl VFR Charts) freely available on the internet http://www.nats.aero/ais. The aeronautical information on the AIS website is a full and complete representation of all AIS products. VFR Charts can be purchased as described in the AIC entitled UK Integrated Aeronautical Information Package (IAIP).

4 The AIP Structure and Established Regular Amendment Interval

4.1 The AIP structure conforms to the template prescribed by ICAO, details of which are given at GEN 3.1.

GEN 0.1 PREFACE (continued)



GEN 0.1 PREFACE (continued)

Part 1 - General (GEN)

GEN consists of five sections containing information briefly described hereafter.

GEN 0	Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; Table of Contents to Part 1.
GEN 1	National regulations and requirements - Designated authorities; Entry, transit and departure of aircraft; Entry, transit and departure of passengers and crew; Entry, transit and departure of cargo; Aircraft instruments, equipment and flight documents; Summary of national regulations and international agreements/conventions; Differences from ICAO Standards and Recommended Practices.
GEN 2	Tables and Codes - Measuring system, aircraft markings, holidays; Abbreviations used in Aeronautical Information Products; Chart symbols; Location indicators; List of radio navigation aids; Conversion of units of measurement; Sunrise/ Sunset Tables.
GEN 3	Services - Aeronautical Information Services; Aeronautical charts; Air Traffic Services; Communication and navigation services; Meteorological services; Search and Rescue.
GEN 4	Charges for aerodrome/heliport and air navigation services - Aerodrome/heliport charges; Air navigation service charges.

Part 2 - En-route (ENR)

ENR consists of seven sections containing information briefly described hereafter.

ENR 0	Table of Contents to Part 2.
ENR 1	General rules and procedures - General rules; Visual flight rules; Instrument flight rules; ATS airspace classification and description; Holding, approach and departure procedures; ATS Surveillance services and procedures; Altimeter setting procedures; Regional supplementary procedures; Air traffic flow management and Airspace Management; Flight planning; Addressing of flight plan messages; Interception of civil aircraft; Unlawful interference; Air traffic incidents.
ENR 2	Air traffic services airspace - Flight Information Regions (FIR); Upper Flight Information Regions (UIR); Terminal Control Areas (TMA) and Control Areas; Other regulated airspace.
ENR 3	ATS routes - Conventional Navigation Routes; Area navigation routes; Other routes; En-route holding.
ENR 4	Radio Navigation aids/systems - Radio navigation aids - en-route; Special navigation systems; Global Navigation Satellite System (GNSS); Name-code designators for significant points; Aeronautical ground lights - en-route.
ENR 5	Navigation warnings - Prohibited, restricted and danger areas; Military exercise and training areas and Air Defence Identification Zone (ADIZ); Other activities of a dangerous nature and other potential hazards; Air navigation obstacles; Aerial sporting and recreational activities; Bird migration and areas of sensitive fauna.
ENR 6	En-route charts.

Part 3 - Aerodromes (AD)

AD consists of four sections containing information as briefly described hereafter.

AD 0	Table of Contents to Part 3.
AD 1	Aerodromes/Heliports - Introduction - Aerodrome/heliport availability and conditions of use; Rescue and fire fighting services and snow plan; Index to aerodromes and heliports; Grouping of aerodromes/heliports; Status of certification of aerodromes.
AD 2	Aerodromes - Detailed information about aerodromes (including helicopter landing areas if located at the aerodromes) listed under 25 sub-sections. Aerodrome specific aeronautical charts and instrument flight procedures.
AD 3	Heliports - Detailed information about heliports (not located at aerodromes), listed under 23 sub-sections. Heliport specific aeronautical charts and procedures and instrument flight procedures. Unlicensed Heliports (Point-in Space procedures (PinS)) - Limited information about heliports, Instrument Approach Procedures.

4.2 The UK AIP is amended in accordance with the AIRAC schedule prescribed by ICAO. Information, containing all publication ‘cut off’ timetables, is available on the UK AIS website or by contacting AIS.

5 UK Aeronautical Information Product Terms and Conditions

5.1 NATS (En Route) PLC ('NATS') as the UK Aeronautical Information Service Provider (AISP) endeavours to make available aeronautical information and data in the UK 'Aeronautical Information Products' in compliance with relevant ICAO Standards and Recommended Practices, except where any differences are notified in the GEN 1.7 section of the UK AIP.

5.2 NATS will maintain the integrity of the information and data supplied to the AIS, from receipt through to the point of publication. However, because these products are compiled using information originated and supplied by numerous external parties, NATS cannot guarantee the accuracy or completeness of content.

GEN 0.1 PREFACE (continued)

5.3 To the fullest extent permitted by law, NATS accepts no liability for your use of UK Aeronautical Information Products.

Note: *'Aeronautical Information Products' means aeronautical data and aeronautical information provided either as digital data sets or as a standardised presentation in paper or electronic media. Aeronautical Information Products include:*

- Aeronautical Information Publication (AIP), including Amendments and Supplements;
- Aeronautical Information Circulars (AIC);
- Aeronautical Charts;
- VFR Charts;
- NOTAM;
- Digital Data Sets.

5.4 There are a number of commercial organisations and other third-parties that provide data services and/or process data using information sourced from official UK Aeronautical Information Products, and who then make this information available to users within their own products and services (with or without charge). Under current UK legislation there are no regulatory requirements in place for third-party providers other than DAT Providers in the scope of Regulation UK (EU) 2017/373 under Annex VII, Part-DAT.

5.5 Aeronautical data and aeronautical information are necessary for the safety of air navigation and it is highly recommended that all organisations or individuals that process aeronautical information sourced from UK Aeronautical Information Products should apply best practices to ensure that it maintains its integrity, is timely, complete and in a form suitable for users, as described in CAP 779 Regulation of Aeronautical Information Management Services. Every data user is liable for any damages caused by any modification made by it to the data made available by the UK AIS and all losses arising from any misuse of the data. Any identified errors should be reported to UK AIS. Where third-party providers process and re-package information which has been sourced from the UK Aeronautical Information Products and data quality issues are identified, the CAA may investigate and take measures to prevent the incorrect data from being made available to users.

6 Service to contact in case of detected Aeronautical Information Product errors or omissions

6.1 Email: aissupervisor@nats.co.uk

7 Document Referencing

7.1 The pagination and section referencing schemes applied to this document employ a very similar construction. User's attention is therefore drawn to the essential difference between the two types of reference.

a) Page numbering is defined by a combination of dots and dashes, whereby the dash represents the page number for information contained within the section, e.g. GEN 3.2-1 is page one of section 3.2.
b) Section and paragraph numbering is divided by dots, e.g. section AD 2.13 and paragraph 1.2.2.1.

7.2 As a general rule, cross references contained in this document will relate to sections or paragraphs. Reference to page numbers will normally be limited to those containing a chart or diagram.

8 Aerodrome Obstacle Data

8.1 The definition and selection of significant obstacles is being studied and it is to be expected that the existing AIP entries will be subject to future revision.

GEN 0.2 RECORD OF AIP AMENDMENTS

NR/Year	Publication Date	Effective Date	Inserted By	Date Inserted
AIRAC 12/2010	31 Oct 2010	18 Nov 2010		
AIRAC 2/2011	9 Feb 2011	10 Feb 2011		
AIRAC 3/2011	9 Mar 2011	10 Mar 2011		
AIRAC 4/2011	6 Apr 2011	7 Apr 2011		
AIRAC 5/2011	4 May 2011	5 May 2011		
AIRAC 6/2011	1 Jun 2011	2 Jun 2011		
AIRAC 7/2011	29 Jun 2011	30 Jun 2011		
AIRAC 8/2011	16 Jun 2011	28 Jul 2011		
AIRAC 9/2011	14 Jul 2011	25 Aug 2011		
AIRAC 10/2011	21 Sep 2011	22 Sep 2011		
AIRAC 11/2011	19 Oct 2011	20 Oct 2011		
AIRAC 12/2011	16 Nov 2011	17 Nov 2011		
AIRAC 13/2011	14 Dec 2011	15 Dec 2011		
AIRAC 1/2012	11 Jan 2012	12 Jan 2012		
AIRAC 2/2012	8 Feb 2012	9 Feb 2012		
AIRAC 3/2012	7 Mar 2012	8 Mar 2012		
AIRAC 4/2012	4 Apr 2012	5 Apr 2012		
AIRAC 5/2012	2 May 2012	3 May 2012		
AIRAC 6/2012	19 Apr 2012	31 May 2012		
AIRAC 7/2012	17 May 2012	28 Jun 2012		
AIRAC 8/2012	1 Jun 2012	26 Jul 2012		
AIRAC 9/2012	2 Jul 2012	23 Aug 2012		
AIRAC 10/2012	30 Jul 2012	20 Sep 2012		
AIRAC 11/2012	6 Sep 2012	18 Oct 2012		
AIRAC 12/2012	24 Sep 2012	15 Nov 2012		
AIRAC 13/2012	22 Oct 2012	13 Dec 2012		
AIRAC 1/2013	19 Nov 2012	10 Jan 2013		
AIRAC 2/2013	10 Dec 2012	7 Feb 2013		
AIRAC 3/2013	14 Jan 2013	7 Mar 2013		
AIRAC 4/2013	8 Feb 2013	4 Apr 2013		
AIRAC 5/2013	8 Mar 2013	2 May 2013		
AIRAC 6/2013	5 Apr 2013	30 May 2013		
AIRAC 7/2013	3 May 2013	27 Jun 2013		
AIRAC 8/2013	31 May 2013	25 Jul 2013		
AIRAC 9/2013	28 Jun 2013	22 Aug 2013		
AIRAC 10/2013	26 Jul 2013	19 Sep 2013		
AIRAC 11/2013	5 Sep 2013	17 Oct 2013		
AIRAC 12/2013	3 Oct 2013	14 Nov 2013		
AIRAC 13/2013	31 Oct 2013	12 Dec 2013		
AIRAC 1/2014	15 Nov 2013	9 Jan 2014		
AIRAC 2/2014	19 Dec 2013	6 Feb 2014		
AIRAC 3/2014	23 Jan 2014	6 Mar 2014		
AIRAC 4/2014	20 Feb 2014	3 Apr 2014		
AIRAC 5/2014	20 Mar 2014	1 May 2014		
AIRAC 6/2014	17 Apr 2014	29 May 2014		
AIRAC 7/2014	15 May 2014	26 Jun 2014		
AIRAC 8/2014	12 Jun 2014	24 Jul 2014		
AIRAC 9/2014	10 Jul 2014	21 Aug 2014		
AIRAC 10/2014	7 Aug 2014	18 Sep 2014		
AIRAC 11/2014	4 Sep 2014	16 Oct 2014		
AIRAC 12/2014	2 Oct 2014	13 Nov 2014		
AIRAC 13/2014	20 Oct 2014	11 Dec 2014		
AIRAC 1/2015	27 Nov 2014	8 Jan 2015		
AIRAC 2/2015	18 Dec 2014	5 Feb 2015		
AIRAC 3/2015	22 Jan 2015	5 Mar 2015		
AIRAC 4/2015	19 Feb 2015	2 Apr 2015		
AIRAC 5/2015	19 Mar 2015	30 Apr 2015		
AIRAC 6/2015	16 Apr 2015	28 May 2015		

GEN 0.2 RECORD OF AIP AMENDMENTS (continued)

NR/Year	Publication Date	Effective Date	Inserted By	Date Inserted
AIRAC 7/2015	14 May 2015	25 Jun 2015		
AIRAC 8/2015	11 Jun 2015	23 Jul 2015		
AIRAC 9/2015	9 Jul 2015	20 Aug 2015		
AIRAC 10/2015	6 Aug 2015	17 Sep 2015		
AIRAC 11/2015	3 Sep 2015	15 Oct 2015		
AIRAC 12/2015	1 Oct 2015	12 Nov 2015		
AIRAC 13/2015	29 Oct 2015	10 Dec 2015		
AIRAC 1/2016	26 Nov 2015	7 Jan 2016		
AIRAC 2/2016	17 Dec 2015	4 Feb 2016		
AIRAC 3/2016	21 Jan 2016	3 Mar 2016		
AIRAC 4/2016	18 Feb 2016	31 Mar 2016		
AIRAC 5/2016	17 Mar 2016	28 Apr 2016		
AIRAC 6/2016	14 Apr 2016	26 May 2016		
AIRAC 7/2016	12 May 2016	23 Jun 2016		
AIRAC 8/2016	9 Jun 2016	21 Jul 2016		
AIRAC 9/2016	7 Jul 2016	18 Aug 2016		
AIRAC 10/2016	4 Aug 2016	15 Sep 2016		
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AIRAC 12/2016	29 Sep 2016	10 Nov 2016		
AIRAC 13/2016	27 Oct 2016	8 Dec 2016		
AIRAC 1/2017	24 Nov 2016	5 Jan 2017		
AIRAC 2/2017	15 Dec 2016	2 Feb 2017		
AIRAC 3/2017	19 Jan 2017	2 Mar 2017		
AIRAC 4/2017	16 Feb 2017	30 Mar 2017		
AIRAC 5/2017	16 Mar 2017	27 Apr 2017		
AIRAC 6/2017	13 Apr 2017	25 May 2017		
AIRAC 7/2017	11 May 2017	22 Jun 2017		
AIRAC 8/2017	8 Jun 2017	20 Jul 2017		
AIRAC 9/2017	6 Jul 2017	17 Aug 2017		
AIRAC 10/2017	3 Aug 2017	14 Sep 2017		
AIRAC 11/2017	31 Aug 2017	12 Oct 2017		
AIRAC 12/2017	28 Sep 2017	9 Nov 2017		
AIRAC 13/2017	26 Oct 2017	7 Dec 2017		
AIRAC 1/2018	23 Nov 2017	4 Jan 2018		
AIRAC 2/2018	14 Dec 2017	1 Feb 2018		
AIRAC 3/2018	18 Jan 2018	1 Mar 2018		
AIRAC 4/2018	15 Feb 2018	29 Mar 2018		
AIRAC 5/2018	15 Mar 2018	26 Apr 2018		
AIRAC 6/2018	12 Apr 2018	24 May 2018		
AIRAC 10/2020	30 Jul 2020	10 Sep 2020		
AIRAC 11/2020	27 Aug 2020	08 Oct 2020		
AIRAC 12/2020	24 Sep 2020	05 Nov 2020		
AIRAC 13/2020	22 Oct 2020	03 Dec 2020		
AIRAC 14/2020	19 Nov 2020	31 Dec 2020		
AIRAC 01/2021	17 Dec 2020	28 Jan 2021		
AIRAC 02/2021	14 Jan 2021	25 Feb 2021		
AIRAC 03/2021	11 Feb 2021	25 Mar 2021		
AIRAC 04/2021	11 Mar 2021	22 Apr 2021		
AIRAC 05/2021	8 Apr 2021	20 May 2021		
AIRAC 06/2021	6 May 2021	17 Jun 2021		
AIRAC 07/2021	3 Jun 2021	15 Jul 2021		
AIRAC 08/2021	1 Jul 2021	12 Aug 2021		
AIRAC 09/2021	29 Jul 2021	09 Sep 2021		
AIRAC 10/2021	26 Aug 2021	07 Oct 2021		
AIRAC 11/2021	23 Sep 2021	04 Nov 2021		
AIRAC 12/2021	21 Oct 2021	02 Dec 2021		
AIRAC 13/2021	18 Nov 2021	30 Dec 2021		
AIRAC 01/2022	16 Dec 2021	27 Jan 2022		

GEN 0.2 RECORD OF AIP AMENDMENTS (continued)

NR/Year	Publication Date	Effective Date	Inserted By	Date Inserted
AIRAC 02/2022	13 Jan 2022	24 Feb 2022		
AIRAC 03/2022	10 Feb 2022	24 Mar 2022		
AIRAC 04/2022	10 Mar 2022	21 Apr 2022		
AIRAC 05/2022	07 Apr 2022	19 May 2022		
AIRAC 06/2022	05 May 2022	16 Jun 2022		
AIRAC 07/2022	02 Jun 2022	14 Jul 2022		
AIRAC 08/2022	30 Jun 2022	11 Aug 2022		
AIRAC 09/2022	28 Jul 2022	08 Sep 2022		
AIRAC 10/2022	25 Aug 2022	06 Oct 2022		
AIRAC 11/2022	22 Sep 2022	03 Nov 2022		
AIRAC 12/2022	20 Oct 2022	01 Dec 2022		
AIRAC 13/2022	17 Nov 2022	29 Dec 2022		
AIRAC 01/2023	15 Dec 2022	26 Jan 2023		
AIRAC 02/2023	12 Jan 2023	23 Feb 2023		
AIRAC 03/2023	09 Feb 2023	23 Mar 2023		
AIRAC 04/2023	09 Mar 2023	20 Apr 2023		
AIRAC 05/2023	06 Apr 2023	18 May 2023		
AIRAC 06/2023	04 May 2023	15 Jun 2023		
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AIRAC 10/2023	24 Aug 2023	05 Oct 2023		
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AIRAC 13/2023	16 Nov 2023	28 Dec 2023		
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AIRAC 02/2024	11 Jan 2024	22 Feb 2024		
AIRAC 03/2024	08 Feb 2024	21 Mar 2024		
AIRAC 04/2024	07 Mar 2024	18 Apr 2024		
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AIRAC 07/2024	30 May 2024	11 Jul 2024		
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AIRAC 11/2024	19 Sep 2024	31 Oct 2024		
AIRAC 12/2024	17 Oct 2024	28 Nov 2024		
AIRAC 13/2024	14 Nov 2024	26 Dec 2024		
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AIRAC 02/2025	09 Jan 2025	20 Feb 2025		
AIRAC 03/2025	06 Feb 2025	20 Mar 2025		
AIRAC 04/2025	06 Mar 2025	17 Apr 2025		
AIRAC 05/2025	03 Apr 2025	15 May 2025		
AIRAC 06/2025	01 May 2025	12 Jun 2025		
AIRAC 07/2025	29 May 2025	10 Jul 2025		
AIRAC 08/2025	26 Jun 2025	07 Aug 2025		
AIRAC 09/2025	24 Jul 2025	04 Sep 2025		
AIRAC 10/2025	21 Aug 2025	02 Oct 2025		
AIRAC 11/2025	18 Sep 2025	30 Oct 2025		

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GEN 0.3 RECORD OF AIP SUPPLEMENTS

NR/Year	Subject	AIP section(s) affected	Period of validity
019/2020	EGMC - SOUTHEND AIRPORT LARS AVAILABILITY	NIL	09 APR 2020 - PERM
031/2020	EGGW - NDB (L) LUT 345.000 KHZ UNAVALIABLE UNTIL FURTHER NOTICE	NIL	27 AUG 2020 - PERM
048/2020	ABERDEEN AIRPORT RUNWAY 34 INSTRUMENT FLIGHT PROCEDURE LIMITATION	NIL	17 DEC 2020 - PERM
020/2022	SOUTHEND (EGMC): GRF RUNWAY CONDITION REPORT NOT AVAILABLE VIA ATIS	NIL	07 APR 2022 - PERM
045/2022	UK STANDARD ARRIVAL ROUTES (STARS)	NIL	28 JUL 2022 - PERM
064/2023	SCILLY ISLES/ST MARY'S (EGHE) - RUNWAY LIGHTING UNSERVICEABLE	AD	21 SEP 2023 - UFN
005/2024	SOUTHEND AIRPORT (EGMC) - THE CENTRALISED DE-ICING FACILITY (CDF) CLOSURE	AD	11 JAN 2024 - UFN
034/2024	LONDON GATWICK AIRPORT (EGKK) - NEW TAXIWAY ECHO - REPLACES SUP 012/2024	AD	04 APR 2024 - UFN
041/2024	MANCHESTER AIRPORT (EGCC) - MAJOR CONSTRUCTION WORKS 2023 - 2025 - REPLACES SUP 014/2023	AD	02 MAY 2024 - UFN
073/2024	BIRMINGHAM AIRPORT (EGBB) - METAL PLATE ON TWY U	AD	22 AUG 2024 - UFN
078/2024	PAPA WESTRAY AIRPORT (EGEP) - TEMPORARY CLOSURE TO GA TRAFFIC AND WARNING TO HELICOPTER OPERATIONS	AD	19 SEP 2024 - UFN
079/2024	STRONSAY AIRPORT (EGER) - TEMPORARY CLOSURE OF AD TO ALL GA TRAFFIC AND WARNING TO HELICOPTER OPERATIONS	AD	19 SEP 2024 - UFN
086/2024	PRESTWICK AIRPORT (EGPK) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	17 OCT 2024 - UFN
087/2024	EDINBURGH AIRPORT (EGPH) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	17 OCT 2024 - UFN
091/2024	IRISH SEA - OFFSHORE WIND TURBINE LIGHTING OUTAGES - REPLACES SUP 024/2024	ENR	17 OCT 2024 - UFN
092/2024	BELFAST CITY AIRPORT (EGAC) - PRIMARY SURVEILLANCE RADAR SERVICE UNAVAILABLE	AD	17 OCT 2024 - UFN
097/2024	LYDD AIRPORT (EGMD) - NDB LZD UNRELIABLE	AD	17 OCT 2024 - UFN
107/2024	UKRAINE CRISIS - AIRSPACE RESTRICTION - REPLACES SUP 016/2024	AD	14 NOV 2024 - UFN
111/2024	MANCHESTER AIRPORT (EGCC) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	12 DEC 2024 - UFN
112/2024	GLOUCESTERSHIRE AIRPORT (EGBJ) - RADAR SERVICES NOT AVAILABLE - REPLACES SUP 088/2024	AD	12 DEC 2024 - UFN
114/2024	SOUTHEND AIRPORT (EGMC) - CRANES OPERATING IN THE VICINITY OF THE AIRPORT	AD	12 DEC 2024 - UFN
006/2025	LONDON GATWICK AIRPORT (EGKK) - INTRODUCTION OF TIME BASED SEPARATION (TBS) - ADVANCED MIXED MODE (AMM)	AD	06 FEB 2025 - UFN
007/2025	LONDON HEATHROW, LONDON GATWICK AND LONDON STANSTED AIRPORTS NOISE RESTRICTIONS NOTICE 2025 - REPLACES SUP 108/2024 AS OF 30 MARCH 2025	AD	06 FEB 2025 - UFN
008/2025	LONDON LUTON (EGGW) - TAXIWAY FOXTROT, AD-HOC PARKING CLOSURES	AD	06 FEB 2025 - UFN
009/2025	BOURNEMOUTH AIRPORT (EGHH) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	06 FEB 2025 - UFN
011/2025	EDINBURGH AIRPORT (EGPH) - STEEL PLATES ON TAXIWAY FOXTROT	AD	06 MAR 2025 - UFN
013/2025	LONDON GATWICK AIRPORT (EGKK) - REMOTE HOLDING ON STANDS 64L, 64R, 65, 66L AND 66R - REPLACES SUP 082/2024	AD	06 MAR 2025 - UFN
015/2025	SOUTHEND AIRPORT (EGMC) - SOUTHEND OPERATIONAL HOURS - REPLACES SUP 032/2023 AS OF 30 MARCH 2025	AD	06 MAR 2025 - UFN

GEN 0.3 RECORD OF AIP SUPPLEMENTS (continued)

NR/Year	Subject	AIP section(s) affected	Period of validity
017/2025	SWANSEA AIRPORT (EGFH) - UNLICENSED STATUS	AD	06 MAR 2025 - UFN
021/2025	EDINBURGH AIRPORT (EGPH) - MIDFIELD STANDS PROJECT - TAXIWAY CLOSURES - EFFECTIVE AS OF 09 MARCH 2025	AD	03 APR 2025 - UFN
022/2025	SOUTHAMPTON AIRPORT (EGHI) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	03 APR 2025 - UFN
025/2025	ABERDEEN AIRPORT (EGPD) - CRANES OPERATING IN THE VICINITY OF THE AIRPORT - REPLACES SUP 010/2024	AD	03 APR 2025 - UFN
026/2025	OXFORD AIRPORT (EGTK) - HANGAR 16 CONSTRUCTION	AD	03 APR 2025 - UFN
029/2025	SOUTHAMPTON AIRPORT (EGHI) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	01 MAY 2025 - UFN
030/2025	TRAFFIC DISTRIBUTION RULES 1991 FOR AIRPORTS SERVING THE LONDON AREA	AD	01 MAY 2025 - UFN
038/2025	EDINBURGH (EGPH) - STEEL PLATE ON TAXIWAY ALPHA	AD	29 MAY 2025 - UFN
039/2025	LONDON STANSTED (EGSS) - FINAL APPROACH SPEED TRIAL OF 165 +/- 5 KTS UNTIL 5 DME	AD	29 MAY 2025 - UFN
043/2025	BIRMINGHAM AIRPORT (EGBB) - NEW TWY HOTEL WORKS - REPLACES SUP 031/2025	AD	29 MAY 2025 - UFN
045/2025	EGD307 DONNA NOOK TEMPORARY CLOSURE	ENR	26 JUN 2025 - UFN
047/2025	EXETER AIRPORT (EGTE) - RUNWAY 08 ILS FLUCTUATION	AD	26 JUN 2025 - UFN
048/2025	EXETER AIRPORT (EGTE) - RUNWAY 26 ILS FLUCTIATION	AD	26 JUN 2025 - UFN
049/2025	BLACKPOOL AIRPORT (EGNH) - DIRECT ARRIVAL APPROACHES RWY 28 FROM VOR/DME POL NOT AVAILABLE - REPLACES SUP 039/2023	AD	26 JUN 2025 - UFN
050/2025	SUMBURGH AIRPORT (EGPB) - UNSERVICEABLE OBST LIGHT COMPASS RADAR	AD	26 JUN 2025 - UFN
051/2025	BRISTOL AIRPORT (EGGD) - SUMMER PLANNED OVERNIGHT CLOSURES	AD	26 JUN 2025 - UFN
052/2025	LONDON HEATHROW AIRPORT (EGLL) - TAXIWAY ALPHA SOUTH BETWEEN TWY FOXTROT AND ECHO CLOSED DUE TO WIP - REPLACES SUP 033/2025	AD	26 JUN 2025 - UFN
053/2025	LIVERPOOL AIRPORT (EGGP) - NDB (L) LPL UNSERVICEABILITY AND USE OF RNAV SUBSTITUTION	AD	26 JUN 2025 - UFN
056/2025	SOUTHAMPTON AIRPORT (EGHI) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	24 JUL 2025 - UFN
057/2025	ST ATHAN AIRPORT (EGSY) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	24 JUL 2025 - UFN
058/2025	BIRMINGHAM AIRPORT (EGBB) - WINTER MAINTENANCE CLOSURES, 03 - 28 NOVEMBER 2025	AD	24 JUL 2025 - UFN
059/2025	RESTRICTION OF FLYING REGULATIONS: (APPLICABLE TO UAS ONLY) MINISTRY OF DEFENCE AIRSPACE RESTRICTIONS - REPLACES AIC M 012/2025	ENR	24 JUL 2025 - UFN
060/2025	GLOUCESTERSHIRE AIRPORT (EGBJ) - RUNWAY 27 ILS U/S	AD	24 JUL 2025 - UFN
061/2025	NEWCASTLE AIRPORT (EGNT) - STAND CLOSURE	AD	24 JUL 2025 - UFN
062/2025	LONDON HEATHROW AIRPORT (EGLL) - NORTHERN RUNWAY (09L/27R) REHABILITATION WORKS	AD	24 JUL 2025 - UFN
063/2025	BOURNEMOUTH AIRPORT (EGHH) - CRANE OPERATING IN THE VICINTIY OF THE AIRPORT	AD	24 JUL 2025 - UFN
064/2025	LONDON CITY AIRPORT (EGLC) - NDB (L) LCY UNSERVICEABILITY AND USE OF RNAV SUBSTITUTION	AD	24 JUL 2025 - UFN

GEN 0.3 RECORD OF AIP SUPPLEMENTS (continued)

NR/Year	Subject	AIP section(s) affected	Period of validity
067/2025	LONDON GATWICK AIRPORT (EGKK) - TEMPORARY CLOSURE OF TAXIWAY TANGO	AD	21 AUG 2025 - UFN
068/2025	BRISTOL AIRPORT (EGGD) - WINTER CLOSURE INFORMATION	AD	21 AUG 2025 - UFN
069/2025	TEMPORARY DANGER AREA (NORTH SEA), BVLOS RPAS FLIGHT, 01 - 30 SEPTEMBER 2025	ENR	21 AUG 2025 - UFN
070/2025	HUMBERSIDE AIRPORT (EGNJ) - WITHDRAWAL OF SURVEILLANCE RADAR APPROACHES (SRAs) - REPLACES SUP 027/2025	AD	21 AUG 2025 - UFN
071/2025	LONDON HEATHROW, LONDON GATWICK AND LONDON STANSTED AIRPORTS NOISE RESTRICTIONS NOTICE (NO. 2) 2025 - REPLACES SUP 007/2025 AS OF 26 OCTOBER 2025	AD	21 AUG 2025 - UFN
072/2025	PORTLAND HELIPORT (EGDP) - NEW HANGAR CONSTRUCTION - REPLACES SUP 054/2025	AD	21 AUG 2025 - UFN
073/2025	BELFAST ALDERGROVE (EGAA) - RADAR UPGRADE	AD	21 AUG 2025 - UFN
074/2025	LONDON LUTON AIRPORT (EGGW) - RUNWAY REHABILITATION	AD	21 AUG 2025 - UFN
075/2025	NOTTINGHAM AIRPORT (EGBN) - AIRPORT UNAVAILABLE TO FIXED-WING AIRCRAFT	AD	21 AUG 2025 - UFN
076/2025	SOUTHEND AIRPORT (EGMC) - CRANE OPERATING IN THE VICINITY OF THE AIRPORT	AD	21 AUG 2025 - UFN
078/2025	LONDON OXFORD AIRPORT (EGTK) - CRANES OPERATING IN THE VICINTIY OF THE AIRPORT	AD	18 SEP 2025 - UFN
079/2025	LONDON OXFORD AIRPORT (EGTK) - TEMPORARY CLOSURE OF HELI COMPASS BASE	AD	18 SEP 2025 - UFN
080/2025	EAST MIDLANDS AIRPORT (EGNX) - STAND CLOSURES	AD	18 SEP 2025 - UFN
081/2025	CAMBRIDGE AIRPORT (EGSC) - HOLDING POINT LIMA CLOSED	AD	18 SEP 2025 - UFN
082/2025	OLD BUCKENHAM AIRPORT (EGSV) - WINTER GRASS AREA CLOSURE 2025 - 2026	AD	18 SEP 2025 - UFN
083/2025	GROUND TO AIR TRIAL, 06 - 31 OCTOBER 2025	ENR	18 SEP 2025 - UFN
084/2025	LONDON GATWICK (EGKK) - REMOTE HOLDING ON STANDS 130 AND 131	AD	18 SEP 2025 - UFN
085/2025	BOURNEMOUTH AIRPORT (EGHH) - TEMPORARY UNAVAILABILITY OF ATIS LANDLINE	AD	18 SEP 2025 - UFN
086/2025	EDINBURGH AIRPORT (EGPH) - MAJOR RUNWAY REHABILITATION WORKS, WINTER 2025/2026	AD	18 SEP 2025 - UFN

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GEN 0.4 CHECKLIST OF AIP PAGES

The pages amended by this AIRAC are indicated by a star * and by the AIRAC effective date.

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0.1-2	7 Oct 2021	1.4-1	24 May 2018	1.7-23	7 Sep 2023	2.3-1	7 Aug 2025
0.1-3	23 Jan 2025	1.4-2	21 Jun 2018	1.7-24	7 Sep 2023	2.3-2	7 Aug 2025
0.1-4	23 Jan 2025	1.4-3	21 Jun 2018	1.7-25	13 Jun 2024	2.3-3	23 Jan 2025
0.2-1	24 May 2018	1.5-1	28 Nov 2024	1.7-26	13 Jun 2024	2.3-4	23 Jan 2025
0.2-2	27 Jan 2022	1.5-2	24 May 2018	1.7-27	13 Jun 2024	2.3-5	23 Jan 2025
* 0.2-3	30 Oct 2025	1.5-3	20 Feb 2025	1.7-28	13 Jun 2024	2.3-6	23 Jan 2025
* 0.3-1	30 Oct 2025	1.5-4	20 Feb 2025	1.7-29	13 Jun 2024	2.3-7	23 Jan 2025
* 0.3-2	30 Oct 2025	1.5-5	27 Feb 2020	1.7-30	13 Jun 2024	2.4-1	4 Sep 2025
* 0.3-3	30 Oct 2025	1.5-6	27 Feb 2020	1.7-31	13 Jun 2024	2.4-2	2 Oct 2025
* 0.4-1	30 Oct 2025	1.5-7	27 Feb 2020	1.7-32	13 Jun 2024	2.4-3	2 Oct 2025
* 0.4-2	30 Oct 2025	1.5-8	24 Mar 2022	1.7-33	13 Jun 2024	2.4-4	2 Oct 2025
* 0.4-3	30 Oct 2025	1.5-9	24 Mar 2022	1.7-34	13 Jun 2024	2.4-5	2 Oct 2025
* 0.4-4	30 Oct 2025	1.5-10	24 Mar 2022	1.7-35	13 Jun 2024	2.4-6	2 Oct 2025
* 0.4-5	30 Oct 2025	1.5-11	4 Sep 2025	1.7-36	13 Jun 2024	2.5-1	12 Jun 2025
* 0.4-6	30 Oct 2025	1.5-12	25 Feb 2021	1.7-37	13 Jun 2024	2.5-2	4 Sep 2025
* 0.4-7	30 Oct 2025	1.5-13	24 Feb 2022	1.7-38	13 Jun 2024	2.5-3	4 Sep 2025
* 0.4-8	30 Oct 2025	1.5-14	20 Feb 2025	1.7-39	13 Jun 2024	2.5-4	4 Sep 2025
* 0.4-9	30 Oct 2025	1.5-15	4 Sep 2025	1.7-40	15 May 2025	2.5-5	4 Sep 2025
* 0.4-10	30 Oct 2025	1.5-16	20 Feb 2025	1.7-41	15 May 2025	2.5-6	4 Sep 2025
* 0.4-11	30 Oct 2025	1.5-17	20 Feb 2025	1.7-42	15 May 2025	2.5-7	4 Sep 2025
* 0.4-12	30 Oct 2025	1.5-18	4 Sep 2025	1.7-43	15 May 2025	2.6-1	28 Dec 2023
* 0.4-13	30 Oct 2025	1.5-19	4 Sep 2025	1.7-44	15 May 2025	2.6-2	24 May 2018
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* 0.4-15	30 Oct 2025	1.5-21	28 Nov 2024	1.7-46	15 May 2025	3.1-1	23 Jan 2025
* 0.4-16	30 Oct 2025	1.6-1	30 Dec 2021	1.7-47	15 May 2025	3.1-2	23 Jan 2025
* 0.4-17	30 Oct 2025	1.6-2	17 Apr 2025	1.7-48	15 May 2025	3.1-3	23 Jan 2025
* 0.4-18	30 Oct 2025	1.6-3	17 Apr 2025	1.7-49	15 May 2025	* 3.1-4	30 Oct 2025
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* 1.1-1	30 Oct 2025	* 1.6-6	30 Oct 2025	1.7-52	13 Jun 2024	3.2-1	23 Jan 2025
* 1.1-2	30 Oct 2025	* 1.6-7	30 Oct 2025	1.7-53	13 Jun 2024	3.2-2	23 Jan 2025
1.2-1	23 Apr 2020	* 1.7-1	30 Oct 2025	1.7-54	13 Jun 2024	3.2-3	23 Jan 2025
1.2-2	29 Dec 2022	1.7-2	1 Dec 2022	1.7-55	13 Jun 2024	3.2-4	4 Sep 2025
1.2-3	4 Sep 2025	1.7-3	7 Sep 2023	1.7-56	13 Jun 2024	3.2-5	4 Sep 2025
1.2-4	4 Sep 2025	1.7-4	15 May 2025	1.7-57	13 Jun 2024	3.2-6	7 Sep 2023
1.2-5	2 Jan 2020	1.7-5	26 Jan 2023	1.7-58	13 Jun 2024	3.2-7	7 Sep 2023
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1.2-7	21 Jun 2018	1.7-7	1 Dec 2022	1.7-60	13 Jun 2024	3.3-1	28 Nov 2024
1.2-8	2 Jan 2020	1.7-8	7 Sep 2023	1.7-61	13 Jun 2024	3.3-2	18 Apr 2024
1.2-9	21 Jun 2018	1.7-9	7 Sep 2023	1.7-62	13 Jun 2024	3.3-3	18 Apr 2024
1.2-10	21 Jun 2018	1.7-10	7 Sep 2023	* 1.7-63	30 Oct 2025	3.3-4	18 Apr 2024
1.2-11	29 Dec 2022	1.7-11	20 Mar 2025	* 1.7-64	30 Oct 2025	3.3-5	18 Apr 2024
1.2-12	21 Jun 2018	1.7-12	20 Mar 2025	2.1-1	21 Mar 2024	3.3-6	18 Apr 2024
1.2-13	25 Jan 2024	1.7-13	20 Mar 2025	2.1-2	26 Jan 2023	3.3-7	18 Apr 2024
1.2-14	21 Jun 2018	1.7-14	20 Mar 2025	2.2-1	2 Dec 2021	3.3-8	18 Apr 2024
1.2-15	23 Apr 2020	1.7-15	20 Mar 2025	2.2-2	18 Apr 2024	3.3-9	18 Apr 2024
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1.2-17	23 Apr 2020	1.7-17	20 Mar 2025	2.2-4	18 Apr 2024	* 3.4-1	30 Oct 2025
1.2-18	23 Apr 2020	1.7-18	20 Mar 2025	2.2-5	25 Jan 2024	* 3.4-2	30 Oct 2025
1.3-1	21 Jun 2018	1.7-19	20 Mar 2025	2.2-6	31 Oct 2024	* 3.4-3	30 Oct 2025
1.3-2	21 Jun 2018	1.7-20	20 Mar 2025	2.2-7	31 Oct 2024	* 3.4-4	30 Oct 2025
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* 3.4-7	30 Oct 2025	4.2-2	20 Mar 2025	1.1-1	2 Oct 2025	1.4-5	20 May 2021
* 3.4-8	30 Oct 2025	4.2-3	18 Apr 2024	1.1-2	2 Oct 2025	1.4-6	4 Sep 2025
* 3.4-9	30 Oct 2025			1.1-3	2 Oct 2025	1.4-7	4 Sep 2025
* 3.4-10	30 Oct 2025			1.1-4	2 Oct 2025	1.4-8	4 Sep 2025
3.5-1	28 Nov 2024			1.1-5	2 Oct 2025	1.4-9	4 Sep 2025
3.5-2	17 Jun 2021			1.1-6	2 Oct 2025	1.4-10	4 Sep 2025
3.5-3	11 Aug 2022			1.1-7	2 Oct 2025	1.4-11	4 Sep 2025
3.5-4	17 Jun 2021			1.1-8	2 Oct 2025	1.4-12	4 Sep 2025
3.5-5	4 Sep 2025			1.1-9	2 Oct 2025	1.5-1	10 Aug 2023
* 3.5-6	30 Oct 2025			1.1-10	2 Oct 2025	1.5-2	10 Aug 2023
3.5-7	17 Apr 2025			1.1-11	2 Oct 2025	1.5-3	10 Aug 2023
3.5-8	11 Aug 2022			1.1-12	2 Oct 2025	1.5-4	10 Aug 2023
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3.5-10	25 Mar 2021			1.1-14	2 Oct 2025	1.6-2	12 Jun 2025
3.5-11	4 Nov 2021			1.1-15	2 Oct 2025	1.6-3	5 Nov 2020
3.5-12	4 Nov 2021			1.1-16	2 Oct 2025	1.6-4	27 Feb 2020
3.5-13	11 Aug 2022			1.1-17	2 Oct 2025	1.6-5	27 Feb 2020
3.5-14	11 Aug 2022			1.1-18	2 Oct 2025	1.6-6	3 Oct 2024
3.5-15	11 Aug 2022			1.1-19	2 Oct 2025	1.6-7	4 Sep 2025
3.5-16	4 Nov 2021			1.1-20	2 Oct 2025	1.6-8	2 Oct 2025
3.5-17	4 Nov 2021			1.1-21	2 Oct 2025	* 1.6-9	30 Oct 2025
3.5-18	13 Jul 2023			1.1-22	2 Oct 2025	* 1.6-10	30 Oct 2025
3.5-19	13 Jul 2023			1.1-23	2 Oct 2025	1.6-11	4 Sep 2025
3.5-20	4 Nov 2021			1.1-24	2 Oct 2025	1.6-12	4 Sep 2025
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3.5-23	4 Nov 2021			1.1-27	2 Oct 2025	1.6-15	4 Sep 2025
3.5-24	4 Nov 2021			1.1-28	2 Oct 2025	1.6-16	4 Sep 2025
3.5-25	4 Nov 2021			1.1-29	2 Oct 2025	* 1.6-17	30 Oct 2025
* 3.5-26	30 Oct 2025			1.1-30	2 Oct 2025	1.6-18	4 Sep 2025
* 3.5-27	30 Oct 2025			1.1-31	2 Oct 2025	1.6-19	4 Sep 2025
* 3.5-28	30 Oct 2025			1.1-32	2 Oct 2025	1.6-20	4 Sep 2025
* 3.5-29	30 Oct 2025			1.1-33	2 Oct 2025	1.6-21	5 Oct 2023
* 3.5-30	30 Oct 2025			1.1-34	2 Oct 2025	1.6-22	2 Oct 2025
* 3.5-31	30 Oct 2025			1.1-35	2 Oct 2025	1.6-23	2 Oct 2025
* 3.5-32	30 Oct 2025			1.1-36	2 Oct 2025	1.6-24	5 Oct 2023
* 3.5-33	30 Oct 2025			1.1-37	2 Oct 2025	1.6-25	2 Oct 2025
* 3.5-34	30 Oct 2025			1.1-38	2 Oct 2025	1.6-26	25 Jan 2024
* 3.5-35	30 Oct 2025			1.1-39	2 Oct 2025	1.6-27	25 Jan 2024
* 3.5-36	30 Oct 2025			1.1-40	2 Oct 2025	1.6-28	22 Feb 2024
* 3.5-37	30 Oct 2025			1.1-41	2 Oct 2025	1.6-29	22 Feb 2024
3.6-1	1 Dec 2022			1.1-42	2 Oct 2025	1.6-30	25 Jan 2024
3.6-2	28 Nov 2024			1.1-43	2 Oct 2025	1.6-31	25 Jan 2024
3.6-3	28 Nov 2024			1.1-44	2 Oct 2025	1.6-32	25 Jan 2024
3.6-4	28 Nov 2024			1.2-1	16 Jun 2022	1.6-33	25 Jan 2024
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4.1-1	24 May 2018			1.4-2	12 Jun 2025	1.7-2	4 Sep 2025
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1.8-1	2 Oct 2025	2.1-16	12 Jun 2025	2.1-70	4 Sep 2025	2.2-8	2 Oct 2025
1.9-1	21 Jun 2018	2.1-17	12 Jun 2025	2.1-71	4 Sep 2025	2.2-9	2 Oct 2025
1.9-2	23 Apr 2020	2.1-18	12 Jun 2025	2.1-72	4 Sep 2025	2.2-10	2 Oct 2025
1.9-3	14 Jul 2022	2.1-19	12 Jun 2025	2.1-73	4 Sep 2025	2.2-11	2 Oct 2025
1.9-4	14 Jul 2022	2.1-20	12 Jun 2025	2.1-74	4 Sep 2025	2.2-12	2 Oct 2025
1.9-5	14 Jul 2022	2.1-21	12 Jun 2025	2.1-75	4 Sep 2025	2.2-13	2 Oct 2025
1.9-6	14 Jul 2022	2.1-22	12 Jun 2025	2.1-76	4 Sep 2025	2.2-14	2 Oct 2025
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1.9-8	10 Sep 2020	2.1-24	12 Jun 2025	2.1-78	4 Sep 2025	2.2-16	2 Oct 2025
1.9-9	23 Apr 2020	2.1-25	12 Jun 2025	2.1-79	4 Sep 2025	2.2-17	2 Oct 2025
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1.10-2	27 Jan 2022	2.1-27	16 May 2024	2.1-81	4 Sep 2025	2.2-19	10 Jul 2025
1.10-3	7 Oct 2021	2.1-28	16 May 2024	2.1-82	4 Sep 2025	2.2-20	3 Oct 2024
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1.10-6	12 Jun 2025	2.1-31	16 May 2024	2.1-85	4 Sep 2025	2.2-23	2 Oct 2025
1.10-7	12 Jun 2025	2.1-32	16 May 2024	2.1-86	4 Sep 2025	2.2-24	2 Oct 2025
1.10-8	12 Jun 2025	2.1-33	16 May 2024	2.1-87	4 Sep 2025	2.2-25	2 Oct 2025
1.10-9	12 Jun 2025	2.1-34	16 May 2024	2.1-88	4 Sep 2025	2.2-26	2 Oct 2025
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1.10-13	21 Jun 2018	2.1-38	4 Sep 2025	2.1-92	4 Sep 2025	2.2-30	2 Oct 2025
1.10-14	27 Jan 2022	2.1-39	4 Sep 2025	2.1-93	4 Sep 2025	2.2-31	20 Feb 2025
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1.10-17	22 Feb 2024	2.1-42	4 Sep 2025	2.1-96	4 Sep 2025	2.2-34	20 Feb 2025
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1.10-19	22 Feb 2024	2.1-44	4 Sep 2025	2.1-98	4 Sep 2025	2.2-36	3 Oct 2024
1.10-20	10 Sep 2020	2.1-45	4 Sep 2025	2.1-99	4 Sep 2025	2.2-37	3 Oct 2024
1.10-21	22 Feb 2024	2.1-46	4 Sep 2025	2.1-100	4 Sep 2025	2.2-38	3 Oct 2024
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1.12-1	21 Jun 2018	2.1-49	4 Sep 2025	2.1-103	4 Sep 2025	2.2-41	2 Oct 2025
1.12-2	21 Jun 2018	2.1-50	4 Sep 2025	2.1-104	4 Sep 2025	2.2-42	2 Oct 2025
1.13-1	24 May 2018	2.1-51	4 Sep 2025	2.1-105	4 Sep 2025	2.2-43	2 Oct 2025
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1.14-2	12 Jun 2025	2.1-53	4 Sep 2025	2.1-107	4 Sep 2025	2.2-45	2 Oct 2025
1.14-3	12 Jun 2025	2.1-54	4 Sep 2025	2.1-108	4 Sep 2025	2.2-46	2 Oct 2025
2.1-1	10 Jul 2025	2.1-55	4 Sep 2025	2.1-109	4 Sep 2025	2.2-47	2 Oct 2025
2.1-2	2 Oct 2025	2.1-56	4 Sep 2025	2.1-110	4 Sep 2025	* 2.2-48	30 Oct 2025
2.1-3	11 Jul 2024	2.1-57	4 Sep 2025	2.1-111	4 Sep 2025	2.2-49	2 Oct 2025
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2.1-7	15 Jun 2023	2.1-61	4 Sep 2025	2.1-115	4 Sep 2025	3.1-1	24 Feb 2022
2.1-8	15 Jun 2023	2.1-62	4 Sep 2025	2.1-116	4 Sep 2025	3.2-1	7 Sep 2023
2.1-9	12 Jun 2025	2.1-63	4 Sep 2025	2.2-1	2 Oct 2025	3.2-2	11 Jul 2024
2.1-10	12 Jun 2025	2.1-64	4 Sep 2025	2.2-2	10 Jul 2025	3.2-3	28 Nov 2024
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2.1-12	12 Jun 2025	2.1-66	4 Sep 2025	2.2-4	10 Jul 2025	3.2-5	23 Mar 2023
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1.5-3	4 Sep 2025	2.EGSL-2	10 Jul 2025	2.EGAC-5	20 Feb 2025	2.EGKB-7-2	3 Oct 2024
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2.EGPD-2	18 May 2023	2.EGSL-4	10 Jul 2025	2.EGAC-7	10 Jul 2025	2.EGKB-8-2	23 Jan 2025
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2.EGPD-8-3	26 Dec 2024	2.EGAA-10	2 Oct 2025	2.EGPL-8	15 May 2025	2.EGBB-2-3	15 May 2025
2.EGPD-8-4	26 Dec 2024	2.EGAA-11	10 Jul 2025	* 2.EGPL-2-1	30 Oct 2025	2.EGBB-4-1	16 May 2024
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2.EGPD-8-6	26 Dec 2024	2.EGAA-13	25 Jan 2024	* 2.EGPL-8-2	30 Oct 2025	2.EGBB-5-1	17 Apr 2025
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2.EGBB-6-5	20 Feb 2025	2.EGNH-8-4	16 May 2024	2.EGGD-6-2	18 Apr 2024	2.EGEC-5	2 Nov 2023
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2.EGBB-6-7	20 Feb 2025	2.EGNH-8-6	21 Mar 2024	2.EGGD-7-1	16 May 2024	2.EGEC-7	31 Oct 2024
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2.EGBB-6-9	20 Feb 2025	2.EGHH-1	4 Sep 2025	2.EGGD-7-3	17 Apr 2025	2.EGEC-8-1	23 Jan 2025
2.EGBB-7-1	13 Jun 2024	2.EGHH-2	2 Oct 2025	2.EGGD-7-4	18 Apr 2024	2.EGEC-8-2	3 Oct 2024
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2.EGBB-7-3	10 Jul 2025	2.EGHH-4	2 Oct 2025	2.EGGD-7-6	12 Jun 2025	2.EGEC-8-4	3 Oct 2024
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* 2.EGBB-7-5	30 Oct 2025	2.EGHH-6	2 Oct 2025	2.EGGD-7-8	23 Mar 2023	2.EGFF-2	20 Mar 2025
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2.EGBB-7-9	13 Jun 2024	2.EGHH-10	2 Oct 2025	2.EGGD-8-2	15 May 2025	2.EGFF-6	5 Sep 2024
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2.EGNH-2-2	7 Aug 2025	2.EGGD-2-2	2 Oct 2025	2.EGEC-1	14 Jul 2022	2.EGFF-8-11	2 Dec 2021

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2.EGHA-4-1	25 Jan 2024	2.EGPN-4	10 Jul 2025	2.EGNX-2-2	4 Sep 2025	2.EGPH-2-3	7 Aug 2025
2.EGBE-1	2 Oct 2025	2.EGPN-5	2 Nov 2023	2.EGNX-2-3	28 Dec 2023	2.EGPH-4-1	2 Oct 2025
2.EGBE-2	15 May 2025	2.EGPN-6	2 Oct 2025	2.EGNX-4-1	2 Oct 2025	2.EGPH-5-1	7 Aug 2025
2.EGBE-3	15 May 2025	2.EGPN-7	2 Oct 2025	2.EGNX-5-1	17 Apr 2025	2.EGPH-6-1	7 Aug 2025
2.EGBE-4	15 May 2025	2.EGPN-8	10 Jul 2025	2.EGNX-6-1	17 Apr 2025	2.EGPH-6-2	10 Jul 2025
2.EGBE-5	10 Jul 2025	2.EGPN-9	17 Apr 2025	2.EGNX-6-2	17 Apr 2025	2.EGPH-6-3	16 May 2024
2.EGBE-6	15 May 2025	2.EGPN-2-1	14 Jul 2022	2.EGNX-6-3	20 Mar 2025	2.EGPH-7-1	13 Jun 2024
2.EGBE-7	10 Jul 2025	2.EGPN-4-1	28 Apr 2016	2.EGNX-7-1	20 Feb 2025	2.EGPH-7-2	13 Jun 2024
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2.EGTC-1	2 Oct 2025	2.EGPN-8-5	18 Apr 2024	2.EGNX-7-6	16 May 2024	2.EGPH-7-7	13 Jun 2024
2.EGTC-2	2 Oct 2025	2.EGPN-8-6	25 Jan 2024	2.EGNX-7-7	16 May 2024	2.EGPH-8-1	7 Aug 2025
2.EGTC-3	2 Oct 2025	2.EGPN-8-7	25 Jan 2024	2.EGNX-7-8	16 May 2024	2.EGPH-8-2	7 Aug 2025
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2.EGAB-2	15 Jun 2023	2.EGTF-2-2	2 Oct 2025	2.EGCL-5	5 Sep 2024	2.EGBJ-2	20 Feb 2025
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2.EGKH-5	14 Jul 2022	2.EGCM-8-4	10 Aug 2023	2.EGGP-8-4	20 Feb 2025	2.EGLC-8-1	3 Oct 2024
2.EGKH-2-1	2 Oct 2025	2.EGBG-1	14 Jul 2022	2.EGGP-8-5	20 Feb 2025	2.EGLC-8-2	3 Oct 2024
2.EGHF-1	15 Jun 2023	2.EGBG-2	10 Jul 2025	2.EGGP-8-6	20 Feb 2025	2.EGLC-8-3	13 Jul 2023
2.EGHF-2	22 Apr 2021	2.EGBG-3	14 Jul 2022	2.EGGP-8-7	20 Feb 2025	2.EGLC-8-4	3 Oct 2024
2.EGHF-3	10 Jul 2025	2.EGBG-4	10 Jul 2025	2.EGGP-8-8	20 Feb 2025	2.EGLC-8-5	3 Oct 2024
2.EGHF-4	10 Jul 2025	2.EGBG-5	2 Oct 2025	2.EGGP-8-9	20 Feb 2025	2.EGLC-8-6	13 Jul 2023
2.EGHF-5	10 Jul 2025	2.EGBG-6	10 Jul 2025	2.EGGP-8-10	17 Jun 2021	* 2.EGKK-1	30 Oct 2025
2.EGHF-6	10 Jul 2025	2.EGBG-2-1	25 Apr 2019	2.EGGP-8-11	17 Jun 2021	* 2.EGKK-2	30 Oct 2025
2.EGHF-7	10 Jul 2025	2.EGET-1	2 Oct 2025	2.EGLC-1	3 Oct 2024	* 2.EGKK-3	30 Oct 2025
2.EGHF-2-1	10 Jul 2025	2.EGET-2	2 Oct 2025	2.EGLC-2	28 Nov 2024	* 2.EGKK-4	30 Oct 2025
2.EGNM-1	7 Aug 2025	2.EGET-3	2 Oct 2025	2.EGLC-3	20 Mar 2025	* 2.EGKK-5	30 Oct 2025
2.EGNM-2	8 Sep 2022	2.EGET-4	2 Oct 2025	2.EGLC-4	7 Aug 2025	* 2.EGKK-6	30 Oct 2025
2.EGNM-3	19 May 2022	2.EGET-5	2 Oct 2025	2.EGLC-5	10 Jul 2025	* 2.EGKK-7	30 Oct 2025
2.EGNM-4	7 Aug 2025	2.EGET-6	2 Oct 2025	2.EGLC-6	10 Jul 2025	2.EGKK-8	7 Aug 2025
2.EGNM-5	7 Aug 2025	2.EGET-7	3 Oct 2024	* 2.EGLC-7	30 Oct 2025	2.EGKK-9	10 Jul 2025
2.EGNM-6	7 Aug 2025	2.EGET-2-1	2 Oct 2025	2.EGLC-8	10 Jul 2025	* 2.EGKK-10	30 Oct 2025
2.EGNM-7	7 Aug 2025	2.EGGP-1	10 Jul 2025	2.EGLC-9	2 Oct 2025	2.EGKK-11	2 Oct 2025
2.EGNM-8	7 Aug 2025	2.EGGP-2	10 Jul 2025	* 2.EGLC-10	30 Oct 2025	2.EGKK-12	2 Oct 2025

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2.EGKK-14	7 Aug 2025	2.EGKK-7-8	25 Jan 2024	2.EGLL-35	4 Sep 2025	2.EGLL-7-21	12 Jun 2025
2.EGKK-15	7 Aug 2025	2.EGKK-7-9	25 Jan 2024	2.EGLL-36	4 Sep 2025	2.EGLL-7-22	12 Jun 2025
* 2.EGKK-16	30 Oct 2025	2.EGKK-7-10	25 Jan 2024	2.EGLL-37	4 Sep 2025	2.EGLL-7-23	12 Jun 2025
* 2.EGKK-17	30 Oct 2025	2.EGKK-7-11	25 Jan 2024	2.EGLL-38	4 Sep 2025	2.EGLL-7-24	12 Jun 2025
2.EGKK-18	7 Aug 2025	2.EGKK-7-12	25 Jan 2024	2.EGLL-39	4 Sep 2025	2.EGLL-7-25	7 Aug 2025
2.EGKK-19	7 Aug 2025	2.EGKK-7-13	25 Jan 2024	2.EGLL-40	4 Sep 2025	2.EGLL-7-26	12 Jun 2025
2.EGKK-20	7 Aug 2025	2.EGKK-7-14	25 Jan 2024	2.EGLL-41	4 Sep 2025	2.EGLL-8-1	12 Jun 2025
2.EGKK-21	10 Jul 2025	2.EGKK-7-15	25 Jan 2024	2.EGLL-42	4 Sep 2025	2.EGLL-8-2	12 Jun 2025
2.EGKK-22	4 Sep 2025	2.EGKK-7-16	25 Jan 2024	2.EGLL-43	4 Sep 2025	2.EGLL-8-3	12 Jun 2025
2.EGKK-23	10 Jul 2025	2.EGKK-7-17	7 Aug 2025	2.EGLL-44	4 Sep 2025	2.EGLL-8-4	12 Jun 2025
2.EGKK-24	10 Jul 2025	2.EGKK-7-18	7 Aug 2025	2.EGLL-45	4 Sep 2025	2.EGLL-8-5	12 Jun 2025
2.EGKK-25	10 Jul 2025	2.EGKK-8-1	15 May 2025	* 2.EGLL-2-1	30 Oct 2025	2.EGLL-8-6	12 Jun 2025
2.EGKK-26	10 Jul 2025	2.EGKK-8-2	15 May 2025	2.EGLL-2-2	13 Jun 2024	2.EGLL-8-7	12 Jun 2025
2.EGKK-27	10 Jul 2025	2.EGKK-8-3	7 Aug 2025	2.EGLL-2-3	4 Sep 2025	2.EGLL-8-8	12 Jun 2025
2.EGKK-28	10 Jul 2025	2.EGKK-8-4	7 Aug 2025	2.EGLL-2-4	12 Jun 2025	2.EGLL-8-9	12 Jun 2025
2.EGKK-29	10 Jul 2025	2.EGKK-8-5	15 May 2025	2.EGLL-2-5	12 Jun 2025	2.EGLL-8-10	12 Jun 2025
* 2.EGKK-2-1	30 Oct 2025	2.EGKK-8-6	15 May 2025	2.EGLL-2-6	12 Jun 2025	2.EGLL-8-11	12 Jun 2025
* 2.EGKK-2-2	30 Oct 2025	2.EGKK-8-7	7 Aug 2025	2.EGLL-2-7	12 Jun 2025	2.EGLL-8-12	12 Jun 2025
2.EGKK-2-3	10 Jul 2025	2.EGKK-8-8	7 Aug 2025	2.EGLL-2-8	13 Jun 2024	2.EGLL-8-13	2 Dec 2021
* 2.EGKK-2-4	30 Oct 2025	2.EGKK-8-9	13 Jul 2023	2.EGLL-2-9	13 Jun 2024	2.EGGW-1	18 May 2023
* 2.EGKK-2-5	30 Oct 2025	2.EGLL-1	31 Oct 2024	2.EGLL-2-10	13 Jun 2024	2.EGGW-2	5 Sep 2024
* 2.EGKK-2-6	30 Oct 2025	2.EGLL-2	28 Nov 2024	2.EGLL-2-11	24 May 2018	2.EGGW-3	25 Jan 2024
2.EGKK-4-1	28 Nov 2024	2.EGLL-3	28 Nov 2024	2.EGLL-2-12	13 Sep 2018	2.EGGW-4	17 Apr 2025
2.EGKK-4-2	23 Mar 2023	2.EGLL-4	28 Nov 2024	2.EGLL-3-1	17 Apr 2025	2.EGGW-5	10 Jul 2025
2.EGKK-5-1	17 Apr 2025	* 2.EGLL-5	30 Oct 2025	2.EGLL-3-2	17 Apr 2025	2.EGGW-6	8 Aug 2024
2.EGKK-6-1	7 Aug 2025	2.EGLL-6	4 Sep 2025	2.EGLL-4-1	01 May 2014	2.EGGW-7	2 Oct 2025
2.EGKK-6-2	2 Oct 2025	2.EGLL-7	4 Sep 2025	2.EGLL-5-1	12 Jun 2025	2.EGGW-8	2 Oct 2025
2.EGKK-6-3	17 Apr 2025	2.EGLL-8	4 Sep 2025	2.EGLL-5-2	31 Dec 2020	* 2.EGGW-9	30 Oct 2025
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2.EGKK-6-5	17 Apr 2025	* 2.EGLL-10	30 Oct 2025	2.EGLL-6-2	4 Sep 2025	2.EGGW-11	2 Oct 2025
2.EGKK-6-6	12 Jun 2025	2.EGLL-11	4 Sep 2025	2.EGLL-6-3	4 Sep 2025	2.EGGW-12	2 Oct 2025
2.EGKK-6-7	17 Apr 2025	2.EGLL-12	4 Sep 2025	2.EGLL-6-4	4 Sep 2025	2.EGGW-13	2 Oct 2025
2.EGKK-6-8	12 Jun 2025	2.EGLL-13	4 Sep 2025	2.EGLL-6-5	4 Sep 2025	2.EGGW-14	2 Oct 2025
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2.EGKK-6-10	17 Apr 2025	2.EGLL-15	2 Oct 2025	2.EGLL-7-1	12 Jun 2025	2.EGGW-16	2 Oct 2025
2.EGKK-6-11	17 Apr 2025	2.EGLL-16	2 Oct 2025	2.EGLL-7-2	12 Jun 2025	2.EGGW-17	2 Oct 2025
2.EGKK-6-12	2 Oct 2025	2.EGLL-17	2 Oct 2025	2.EGLL-7-3	12 Jun 2025	2.EGGW-18	2 Oct 2025
2.EGKK-6-13	17 Apr 2025	2.EGLL-18	7 Aug 2025	2.EGLL-7-4	10 Jul 2025	2.EGGW-19	2 Oct 2025
2.EGKK-6-14	2 Oct 2025	2.EGLL-19	7 Aug 2025	2.EGLL-7-5	10 Jul 2025	* 2.EGGW-2-1	30 Oct 2025
2.EGKK-6-15	17 Apr 2025	2.EGLL-20	2 Oct 2025	* 2.EGLL-7-6	30 Oct 2025	* 2.EGGW-2-2	30 Oct 2025
2.EGKK-6-16	7 Aug 2025	2.EGLL-21	2 Oct 2025	2.EGLL-7-7	10 Jul 2025	* 2.EGGW-2-3	30 Oct 2025
2.EGKK-6-17	17 Apr 2025	2.EGLL-22	2 Oct 2025	2.EGLL-7-8	12 Jun 2025	2.EGGW-3-1	7 Aug 2025
2.EGKK-6-18	17 Apr 2025	2.EGLL-23	2 Oct 2025	2.EGLL-7-9	12 Jun 2025	2.EGGW-4-1	10 Jul 2025
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2.EGKK-6-21	17 Apr 2025	2.EGLL-26	2 Oct 2025	2.EGLL-7-12	4 Sep 2025	2.EGGW-6-2	4 Sep 2025
2.EGKK-6-22	17 Apr 2025	2.EGLL-27	2 Oct 2025	2.EGLL-7-13	23 Jan 2025	2.EGGW-6-3	4 Sep 2025
2.EGKK-7-1	10 Jul 2025	2.EGLL-28	10 Jul 2025	2.EGLL-7-14	12 Jun 2025	2.EGGW-6-4	4 Sep 2025
2.EGKK-7-2	25 Jan 2024	2.EGLL-29	7 Aug 2025	2.EGLL-7-15	12 Jun 2025	2.EGGW-6-5	4 Sep 2025
2.EGKK-7-3	25 Jan 2024	2.EGLL-30	4 Sep 2025	2.EGLL-7-16	12 Jun 2025	2.EGGW-6-6	4 Sep 2025
2.EGKK-7-4	25 Jan 2024	2.EGLL-31	4 Sep 2025	2.EGLL-7-17	28 Nov 2024	2.EGGW-6-7	4 Sep 2025
2.EGKK-7-5	25 Jan 2024	2.EGLL-32	4 Sep 2025	2.EGLL-7-18	28 Nov 2024	2.EGGW-6-8	4 Sep 2025
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2.EGGW-6-11	8 Oct 2020	2.EGSS-2-4	8 Aug 2024	2.EGAE-4-1	17 Apr 2025	* 2.EGCC-23	30 Oct 2025
2.EGGW-7-1	4 Sep 2025	2.EGSS-3-1	7 Aug 2025	2.EGAE-8-1	22 Feb 2024	* 2.EGCC-24	30 Oct 2025
2.EGGW-7-2	4 Sep 2025	2.EGSS-4-1	20 Feb 2025	2.EGAE-8-2	22 Feb 2024	* 2.EGCC-2-1	30 Oct 2025
* 2.EGGW-7-3	30 Oct 2025	2.EGSS-4-3	25 Jan 2024	2.EGAE-8-3	22 Feb 2024	2.EGCC-2-2	15 May 2025
2.EGGW-7-4	4 Sep 2025	2.EGSS-5-1	20 Feb 2025	2.EGAE-8-4	22 Feb 2024	2.EGCC-2-3	2 Oct 2025
* 2.EGGW-7-5	30 Oct 2025	2.EGSS-6-1	25 Jan 2024	2.EGAE-8-5	22 Feb 2024	2.EGCC-2-4	15 May 2025
2.EGGW-7-6	4 Sep 2025	2.EGSS-6-2	25 Jan 2024	2.EGAE-8-6	22 Feb 2024	2.EGCC-3-1	20 Feb 2025
2.EGGW-7-7	23 Mar 2023	2.EGSS-6-3	18 Apr 2024	2.EGAE-8-7	22 Feb 2024	2.EGCC-3-2	2 Oct 2025
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2.EGGW-7-9	24 Feb 2022	2.EGSS-6-5	7 Aug 2025	2.EGAE-8-9	22 Feb 2024	2.EGCC-5-1	17 Apr 2025
2.EGGW-7-10	24 Feb 2022	2.EGSS-6-6	25 Jan 2024	2.EGAE-8-10	22 Feb 2024	2.EGCC-6-1	20 Feb 2025
2.EGGW-7-11	24 Feb 2022	2.EGSS-6-7	25 Jan 2024	2.EGAE-8-11	22 Feb 2024	2.EGCC-6-2	20 Feb 2025
2.EGGW-7-12	24 Feb 2022	2.EGSS-6-8	24 Feb 2022	2.EGMD-1	26 Dec 2024	2.EGCC-6-3	20 Feb 2025
2.EGGW-7-13	24 Feb 2022	2.EGSS-6-9	24 Feb 2022	2.EGMD-2	31 Oct 2024	2.EGCC-6-4	20 Feb 2025
2.EGGW-7-14	4 Sep 2025	2.EGSS-7-1	2 Oct 2025	2.EGMD-3	31 Oct 2024	2.EGCC-6-5	20 Feb 2025
2.EGGW-7-15	4 Sep 2025	* 2.EGSS-7-2	30 Oct 2025	2.EGMD-4	10 Jul 2025	2.EGCC-6-6	12 Jun 2025
2.EGGW-7-16	24 Feb 2022	2.EGSS-7-3	2 Oct 2025	2.EGMD-5	31 Oct 2024	2.EGCC-7-1	20 Feb 2025
2.EGGW-7-17	4 Sep 2025	2.EGSS-7-4	2 Oct 2025	2.EGMD-6	2 Oct 2025	2.EGCC-7-2	20 Mar 2025
2.EGGW-7-18	4 Sep 2025	2.EGSS-7-5	2 Oct 2025	2.EGMD-7	10 Jul 2025	2.EGCC-7-3	20 Feb 2025
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2.EGGW-8-4	4 Sep 2025	2.EGSS-7-9	2 Oct 2025	2.EGMD-2-1	31 Oct 2024	2.EGCC-7-7	23 Mar 2023
2.EGGW-8-5	4 Sep 2025	2.EGSS-7-10	2 Oct 2025	2.EGMD-2-2	31 Oct 2024	2.EGCC-7-8	23 Mar 2023
2.EGGW-8-6	4 Sep 2025	2.EGSS-7-11	2 Oct 2025	2.EGMD-8-1	10 Jul 2025	2.EGCC-8-1	7 Aug 2025
2.EGGW-8-7	4 Sep 2025	2.EGSS-7-12	2 Oct 2025	2.EGMD-8-2	10 Jul 2025	2.EGCC-8-2	7 Aug 2025
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2.EGSS-8	25 Jan 2024	2.EGSS-8-2	20 Feb 2025	2.EGCC-2	15 May 2025	2.EGCC-8-10	20 Feb 2025
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2.EGSS-18	7 Aug 2025	2.EGAE-2	23 Jan 2025	* 2.EGCC-12	30 Oct 2025	2.EGCB-5	4 Sep 2025
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2.EGSS-24	12 Jun 2025	2.EGAE-8	23 Jan 2025	* 2.EGCC-18	30 Oct 2025	2.EGCB-4-1	4 Sep 2025
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2.EGNF-6	10 Jul 2025	2.EGHQ-8-1	13 Jun 2024	2.EGEO-6	2 Oct 2025	2.EGPK-4	17 Apr 2025
2.EGNF-2-1	10 Jul 2025	2.EGHQ-8-2	13 Jun 2024	2.EGEO-7	18 Apr 2024	2.EGPK-5	17 Apr 2025
2.EGNT-1	28 Nov 2024	2.EGHQ-8-3	13 Jun 2024	2.EGEO-2-1	2 Oct 2025	2.EGPK-6	10 Jul 2025
2.EGNT-2	10 Aug 2023	2.EGHQ-8-4	7 Sep 2023	2.EGSV-1	23 Feb 2023	2.EGPK-7	3 Oct 2024
2.EGNT-3	10 Aug 2023	2.EGHQ-8-5	13 Jun 2024	2.EGSV-2	11 Jul 2024	2.EGPK-8	17 Apr 2025
2.EGNT-4	28 Nov 2024	2.EGHQ-8-6	18 Apr 2024	2.EGSV-3	10 Jul 2025	2.EGPK-9	2 Oct 2025
2.EGNT-5	10 Jul 2025	2.EGHQ-8-7	13 Jun 2024	2.EGSV-4	10 Jul 2025	2.EGPK-10	2 Oct 2025
2.EGNT-6	28 Nov 2024	2.EGHQ-8-8	7 Sep 2023	2.EGSV-5	23 Feb 2023	2.EGPK-11	10 Jul 2025
2.EGNT-7	16 May 2024	2.EGAD-1	2 Oct 2025	2.EGSV-6	14 Jul 2022	2.EGPK-12	17 Apr 2025
2.EGNT-8	10 Jul 2025	2.EGAD-2	14 Jul 2022	2.EGSV-2-1	21 Apr 2022	2.EGPK-13	12 Jun 2025
2.EGNT-9	2 Oct 2025	2.EGAD-3	10 Jul 2025	* 2.EGTH-1	30 Oct 2025	2.EGPK-14	15 May 2025
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2.EGNT-11	7 Aug 2025	2.EGAD-5	10 Jul 2025	2.EGTH-3	10 Aug 2023	2.EGPK-16	10 Jul 2025
2.EGNT-12	7 Aug 2025	2.EGAD-6	23 Jan 2025	2.EGTH-4	10 Jul 2025	2.EGPK-2-1	17 Apr 2025
2.EGNT-13	7 Aug 2025	2.EGAD-7	23 Jan 2025	2.EGTH-5	10 Jul 2025	2.EGPK-2-2	28 Nov 2024
2.EGNT-14	11 Jul 2024	2.EGAD-2-1	2 Oct 2025	2.EGTH-6	10 Jul 2025	2.EGPK-4-1	5 Oct 2023
2.EGNT-15	31 Oct 2024	2.EGEN-1	2 Oct 2025	2.EGTH-2-1	2 Oct 2025	2.EGPK-5-1	16 May 2024
2.EGNT-16	31 Oct 2024	2.EGEN-2	23 Apr 2020	* 2.EGTK-1	30 Oct 2025	2.EGPK-6-1	8 Aug 2024
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* 2.EGHQ-7	30 Oct 2025	2.EGBN-6	18 Apr 2024	2.EGPT-4	10 Jul 2025	2.EGKR-1	17 Apr 2025
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2.EGHQ-9	10 Jul 2025	2.EGEO-1	2 Oct 2025	2.EGPT-6	10 Jul 2025	2.EGKR-3	10 Jul 2025
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2.EGNE-3	10 Jul 2025	2.EGBS-3	10 Jul 2025	2.EGHI-8-1	6 Oct 2022	* 2.EGSY-10	30 Oct 2025
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2.EGTO-2	23 Jan 2025	2.EGKA-3	12 Jun 2025	2.EGHI-8-8	28 Nov 2024	2.EGSY-8-1	12 Aug 2021
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2.EGES-2	14 Jul 2022	* 2.EGKA-2-2	30 Oct 2025	2.EGMC-6	4 Sep 2025	2.EGPO-1	20 Feb 2025
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* 2.EGES-5	30 Oct 2025	* 2.EGKA-8-2	30 Oct 2025	2.EGMC-9	2 Oct 2025	2.EGPO-4	20 Feb 2025
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* 2.EGES-2-1	30 Oct 2025	2.EGKA-8-4	26 Dec 2024	2.EGMC-11	2 Oct 2025	2.EGPO-6	2 Oct 2025
* 2.EGCF-1	30 Oct 2025	2.EGCV-1	2 Oct 2025	2.EGMC-12	2 Oct 2025	2.EGPO-7	2 Oct 2025
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2.EGHE-2	3 Oct 2024	2.EGCV-2-1	2 Oct 2025	2.EGMC-5-1	17 Apr 2025	2.EGPO-8-2	11 Aug 2022
2.EGHE-3	10 Jul 2025	2.EGHI-1	23 Jan 2025	2.EGMC-7-1	15 May 2025	2.EGPO-8-3	12 Jun 2025
2.EGHE-4	23 Feb 2023	2.EGHI-2	4 Sep 2025	2.EGMC-7-2	15 May 2025	2.EGPO-8-4	18 May 2023
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2.EGCJ-4	7 Sep 2023	2.EGHI-2-1	12 Jun 2025	2.EGMC-8-7	23 Jan 2025	2.EGER-6	10 Jul 2025
2.EGCJ-5	2 Oct 2025	2.EGHI-2-2	4 Sep 2025	2.EGMC-8-8	18 Apr 2024	* 2.EGER-2-1	30 Oct 2025
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2.EGPB-3	10 Jul 2025	* 2.EGNV-2-2	30 Oct 2025	* 2.EGNO-7	30 Oct 2025	2.EGPC-2-1	28 Nov 2024
2.EGPB-4	10 Jul 2025	* 2.EGNV-4-1	30 Oct 2025	* 2.EGNO-8	30 Oct 2025	2.EGPC-8-1	10 Aug 2023
2.EGPB-5	10 Jul 2025	* 2.EGNV-5-1	30 Oct 2025	* 2.EGNO-9	30 Oct 2025	2.EGPC-8-2	10 Aug 2023
2.EGPB-6	10 Jul 2025	* 2.EGNV-8-1	30 Oct 2025	* 2.EGNO-10	30 Oct 2025	2.EGPC-8-3	10 Aug 2023
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2.EGPB-9	10 Jul 2025	* 2.EGNV-8-4	30 Oct 2025	* 2.EGNO-4-1	30 Oct 2025	2.EGPC-8-6	10 Aug 2023
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2.EGPB-8-15	2 Dec 2021	2.EGPU-8-3	23 Jan 2025	2.EGFA-2-1	2 Oct 2025	2.EGTB-2	20 Feb 2025
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2.EGBM-5	3 Oct 2024	* 2.EGNL-8-1	30 Oct 2025	2.EGLM-5	10 Jul 2025	2.EGHG-6	2 Oct 2025
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3.EGLW-5	13 Jun 2024
3.EGLW-6	26 Dec 2024
* 3.EGLW-7	30 Oct 2025
3.EGLW-8	28 Dec 2023
3.EGLW-9	28 Dec 2023
* 3.EGLW-2-1	30 Oct 2025
3.EGLW-4-1	16 Jun 2022
3.EGHK-1	2 Oct 2025
3.EGHK-2	11 Jul 2024
3.EGHK-3	14 Jul 2022
3.EGHK-4	14 Jul 2022
3.EGHK-5	11 Jul 2024
3.EGHK-6	10 Jul 2025
3.EGHK-7	4 Nov 2021
3.EGHK-2-1	2 Oct 2025
* 3.EGDP-1	30 Oct 2025
3.EGDP-2	30 Nov 2023
3.EGDP-3	5 Sep 2024
3.EGDP-4	5 Sep 2024
3.EGDP-5	5 Sep 2024
3.EGDP-6	10 Jul 2025
3.EGDP-7	10 Jul 2025
* 3.EGDP-2-1	30 Oct 2025
* 3.EGDP-4-1	30 Oct 2025
3.EGHT-1	2 Oct 2025
3.EGHT-2	4 Sep 2025
3.EGHT-3	15 May 2025
3.EGHT-4	15 May 2025
3.EGHT-5	10 Jul 2025
3.EGHT-2-1	2 Oct 2025

GEN 0.5 LIST OF HAND AMENDMENTS TO THE AIP

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GEN 1 NATIONAL REGULATIONS AND REQUIREMENTS

GEN 1.1 DESIGNATED AUTHORITIES

1 The addresses of the designated authorities concerned with facilitation of international air navigation are:

a) **Civil Aviation**

Department for Transport

Post: Great Minster House, 76 Marsham Street, London. SW1P 4DR
Phone: 020-7944 8300 (Main Switchboard) (Office Hours: 0830-1730)
020-7944 5999 (Out of Office Hours)
Fax: 020-7944 9643
AFS: EGGCYAYX

Civil Aviation Authority

Post: Headquarters, Aviation House, Gatwick Airport South, West Sussex. RH6 0YR
Phone: 0330-022-1500
AFS: EGGAYAYX

Civil Aviation Authority

Post: Legal Department, 5th Floor, 11 Westferry Circus, London, E14 4HD

Civil Aviation Authority

Post: Safety Regulation Group, Aviation House, Gatwick Airport South, West Sussex. RH6 0YR
Phone: 01293-567171
Fax: 01293-573999
AFS: EGGRYAYX

Civil Aviation Authority (Scottish Office)

Post: 7 Melville Terrace, Stirling. FK8 2ND
Phone: 01786-431410
Fax: 01786-448030

b) **Meteorology**

The Civil Aviation Authority is the Met Authority for the United Kingdom. Met forecasting and climatological services for civil aviation are provided by the Met Office as the service provider for the Civil Aviation Authority.

See GEN Section 3.5

c) **Customs and Excise**

Post: HM Revenue and Customs, CITEX Written Enquiries team, Crownhill Court, Tailyour Road, Plymouth, PL6 5BZ
Phone: 0845-010 9000
Email: www.hmrc.gov.uk - see under ‘contact us’

d) **Immigration**

Post: Home Office, UK Border Agency, Lunar House, 40 Wellesley Road, Croydon, CR9 2BY.
Phone: 0870-606 7766 (Central Telephone Enquiry Bureau). Calls are held and answered in sequence, if not answered immediately please hold.

e) **Health**

Post: Department of Health, International Division. Area 326, 3rd Floor, 135-155 Wellington House, London. SE1 8UG
Phone: 020-7972 2000
Fax: 020-7210 4884/0
Email: dhmail@dh.gsi.gov.uk

f) **En Route and Aerodrome/Heliport Charges**

See GEN 4.

g) **Agricultural Quarantine**

Post: Department for Environment, Food and Rural Affairs. Nobel House, 17 Smith Square, London. SW1P 3JR
Phone: 020-7238 6000
Email: helpline@defra.gsi.gov.uk

Post: Department of Agriculture and Rural Development for Northern Ireland. Dundonald House, Upper Newtownards Road, Belfast. BT4 3SB

GEN 1.1 DESIGNATED AUTHORITIES (continued)

Phone: 028-9052 4999
Fax: 028-9052 5546
Email: dardhelpline@dardni.gov.uk

h) **Aircraft Accident Investigation**

Post: Department of Transport. Air Accidents Investigation Branch, Berkshire Copse Road, Aldershot, Hants. GU11 2HH

Phone: 01252-510300
01252-512299 (Accident Reports (H24))
Fax: 01252-376999
AFS: EGGCYLYX
Email: enquiries@aaib.gov.uk

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT

1 National Regulations

1.1 General

1.1.1 **Crossing UK Boundaries**

1.1.1.1 Aircraft flying from or to places abroad may cross the coastline or the land frontier at any point, subject, however, to the requirements of regulations in force including those contained in the UK AIP ENR 1.1.3, paragraph 7.

1.2 Restrictions on Use

1.2.1 All operators are reminded of the need to comply with local flying restrictions, and noise characteristics and noise abatement procedures in respect of jet aircraft at United Kingdom airports, details of which are shown on the relevant pages of the AD Section. Care must be taken to ensure that advance arrangements have been made for the ground handling of the aircraft and that, unless special arrangements have been made with the airport authorities concerned, arrivals are scheduled during the airports normal hours of watch.

1.3 Aerodrome Operating Minima

1.3.1 The UK Air Navigation Order states that public transport aircraft registered in a country other than the United Kingdom, aerial work aircraft and private aircraft, when making a descent to an aerodrome must not descend from a height of 1000 FT or more above the aerodrome to a height of less than 1000 FT above the aerodrome if the relevant runway visual range at the aerodrome is at the time less than the specified minimum for landing.

In addition the aircraft referred to above when making a descent to an aerodrome must not:

a) Continue an approach to landing at any aerodrome by flying below the relevant specified decision height; or
b) descend below the relevant specified minimum descent height:

Unless, in either case, the specified visual reference for landing is established and maintained from such height.

1.4 Jet Aircraft

1.4.1 The Department for Transport's Aviation Environmental Division publishes a Notice giving effect to the night restrictions for jet aircraft to and from London Gatwick, London Heathrow and London Stansted. The Notice is published twice yearly as a supplement to the AIP in accordance with Civil Aviation (Notices) Regulations 1978 (SI 1978/1303). The night restrictions are set on a seasonal basis as the clocks change. They comprise a maximum number of movements which can be made each season with a quota which is related to an aircraft's noise classification on take-off or landing.

1.5 Arrival and Departure of Civil Aircraft on Flights between Great Britain, Republic of Ireland, Northern Ireland, Isle of Man or the Channel Islands

1.5.1 The Terrorism Act 2000 came into operation on 19 February 2001, replacing the Prevention of Terrorism Act 1989.

1.5.2 The owners or agents of aircraft employed to carry passengers for reward, coming to Great Britain from the Republic of Ireland, Northern Ireland or any of the Islands or going from Great Britain to any other of those places shall not, without the approval of an examining officer, arrange for the aircraft to call at an airport other than a designated airport for the purpose of disembarking or embarking passengers.

1.5.3 The captain of an aircraft not employed to carry passengers for reward and coming to Great Britain from the Republic of Ireland, Northern Ireland or any of the Islands or going from Great Britain to any other of those places shall not, without the approval of an examining officer, permit the aircraft to call or leave an airport in Great Britain other than a designated airport.

1.5.4 The purpose of these requirements is to enable the police to exercise their powers under the Act to carry out security checks and pilots must comply with the requirements of the examining officer in respect of any examination of the captain, crew or passengers where carried. Arrangements in respect of scheduled flights are well established.

1.5.5 If a pilot or an aircraft operator wishes to make a flight to or from a non-designated airport without an intermediate landing at a designated airport, he must seek prior permission from the Chief Officer of Police in whose area the non-designated airport is located. In practice this is usually via the force Special Branch and should be done as far in advance as possible of the flight being made. (Most Police forces require at least 24 hours notice either directly or via the airport operator).

1.5.6 The following Acts continue to remain in force: Prevention of Terrorism (Jersey) Law 1996. Terrorism and Crime (Bailiwick of Guernsey) Law, 2002. The Isle of Man Prevention of Terrorism 1990.

1.5.7 Airports now available and designated under the 2000 Act are listed at GEN 1.2, Appendix A.

1.5.8 Addresses of Chief Constables are given at GEN 1.2, Appendix B.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

1.6 Notification of Civil Helicopter Flights to Northern Ireland

1.6.1 Under the present arrangements contained in the Terrorism Act 2000, the Secretary of State for Northern Ireland, requires pilots in command of civil helicopters flying into Northern Ireland to notify the Police Service of Northern Ireland - Belfast 02890-650222 Ext 33607, of the point and time of arrival in Northern Ireland. In addition the usual security arrangements for the destination should be followed.

1.6.2 An amendment to the arrival point/time must be advised to Belfast Aldergrove Radar Control on RTF 133.125 MHz who will advise the Police Service of Northern Ireland for the pilot.

1.7 Flights between the Isle of Man and Great Britain or Northern Ireland

1.7.1 All aircraft carrying from the Isle of Man any goods on which United Kingdom or European Union duties have not been paid must land at one of the airports designated by the Secretary of State for the purposes of customs and excise (hereafter referred as 'designated airports') designated airports are listed at Appendix C (paragraph 1.9.1 refers).

1.8 Forced Landings

1.8.1 If an aircraft while on a flight to which the restrictions as to place of landing set out at GEN 1.2. paragraph 1.11.1 apply, is required under or by virtue of any enactment relating to air navigation, or is compelled by accident, stress of weather or other unavoidable cause, to land at a place other than a designated airport, the commander of that aircraft must as soon as possible report the landing to an officer of the Border Force for customs and excise or immigration purposes or a police constable. The commander must comply with any directions given by a Border Force officer with respect to any passengers, crew or goods on board the aircraft. In all forced landing situations, any action taken by officers of the Border Force will take full account of the health and safety needs of passengers and crew.

1.9 Customs and Excise, Immigration and Health Airports

1.9.1 The aerodromes in the United Kingdom which have been designated for the purpose of customs and excise by the Secretary of State for the DfT and as designated ports of entry for the purposes of the Immigration Act 1971 are listed at Appendix C. The appendix also gives information on those aerodromes designated as Sanitary Airports under International Sanitary Regulations.

1.9.2 Only designated airports listed in Appendix C which are also ports of entry for immigration purposes may handle unlimited traffic to and from places outside the European Union (EU) (see GEN 1.2 paragraph 1.10.1 for details of EU countries) although certain non-designated aerodromes may handle a limited range of traffic to and from such places subject to the airports being covered by a Certificate of Agreement issued by the Border Force. For detailed arrangements at specific aerodromes contact the aerodrome manager.

1.9.3 There are no customs or immigration restrictions on the places of landing and take-off of aircraft on flights to and from other EU countries but see the notification procedures detailed at GEN 1.2, paragraph 1.10.2.

1.9.4 Charges are payable for the attendance of Border Force staff, for customs and excise purposes, outside certain authorised hours for any duties other than the acceptance of inward report of the aircraft, and the clearance of passengers and their baggage. Details of such charges are published in HM Revenue and Customs Notice No.112 or they may be obtained from the HMRC's VAT, Excise & Customs helpline. Tel: 0845-010 9000. A charge may also be levied if attendance by Border Force staff for immigration purposes is required; contact the local Border Force Office for further information.

1.9.5 For information about the International traffic authorised to be handled by individual aerodromes, and about the hours of attendance and arrangements for immigration clearance contact the aerodrome operator or the relevant Border Force office (see GEN 1.2 Appendix D).

1.10 Flights from/to Countries within the EU

1.10.1 As a result of the completion of the European Single Market on 1 January 1993, the customs and excise requirements referred to in GEN 1.2. paragraph 1.1.1, GEN 1.2. paragraphs 1.10.2 and 1.10.3; GEN 1.2. paragraphs 1.11.1; GEN 1.3. paragraph 1.1, 1.2 and 1.3; and GEN 1.4. paragraph 1.1, now vary according to whether or not the place of departure or the destination is within the European Union (EU). For the purposes of these requirements, the Countries of the EU (also known as Member States) are:

Austria	Belgium	Bulgaria	Cyprus	Czech Republic	Denmark	Estonia
Finland	France	Germany	Greece	Hungary	Republic of Ireland	Italy
Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland	
Portugal (including the Azores and Madeira)			Romania	Slovakia	Slovenia	
Spain (including the Balearic Islands)			Sweden	United Kingdom (including the Isle of Man)		

Note: *The Channel Islands and the Canary Islands are regarded as places outside the EU for the purposes of the arrival and departure procedures set out in GEN 1.2. paragraph 1.11.1.*

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

1.10.2 **Arrival in the United Kingdom from another EU Country**

1.10.2.1 Except in the circumstances referred to in GEN 1.2. paragraph 1.11.1, there is no Customs restriction on the places of landing for aircraft arriving in the United Kingdom from another EU Country.

1.10.2.2 All aircraft have to report their expected arrival to the Border Force at least 4 hours prior to arrival. Aircraft commanders and operators should report their expected arrival by completing and submitting a General Aviation Report (GAR) form. The GAR can be submitted over the internet using an approved GAR submission portal. Details of approved GAR submission internet portals are available at: https://www.gov.uk/government/publications/general-aviation-operators-and-pilots-notification-of-flights
Aircraft commanders and operators are strongly advised to use an approved internet portal to submit the GAR. Internet portals are the most efficient method of submitting a GAR and provide users with a message and unique reference number confirming successful submission of the GAR. Alternatively the GAR can be emailed to NCU@hmrc.gsi.gov.uk. In addition the GAR should also be submitted to a local Border Force Office if local reporting arrangements are in place. The airfield operator will be able to inform you if this is necessary. If a GAR is submitted to a local Border Force office it must also be emailed to NCU@hmrc.gsi.gov.uk or submitted via an approved GAR internet portal. The title of the email should be titled:*'GAR, airfield registration, name of airfield, postcode of airfield (if known)'.*
The GAR form and instructions are available at: https://www.gov.uk/government/publications/general-aviation-operators-and-pilots-notification-of-flights

1.10.2.2.1 The GAR can either be supplied by the aircraft commander or the operator of the aerodrome at which the aircraft is due to land.

1.10.2.3 There is no need for the aircraft commander to bring the aircraft to the examination station unless requested to do so by a Border Force Officer. If the aircraft has stores on board, they must be declared to the Border Force in accordance with the procedure in operation at the airport concerned (generally using Form C209).

1.10.2.4 Liability of Aircraft to Customs Duty and VAT

a) Duty: There is no customs duty on EU registered civil aircraft entering the United Kingdom from another EU country. For other civil aircraft see GEN 1.2. paragraph 1.11.1.3.2.
b) VAT: For aircraft liable to VAT, there are no formalities provided that VAT on the aircraft has been accounted for in one of the EU member states.

1.10.3 **Departure from the United Kingdom to another EU Country**

1.10.3.1 With the exception of the stopover flights referred to in GEN 1.2. paragraph 1.11.1.3.3, there is no Border Force restriction, for the purpose of customs and excise, on the places of take-off for flights to other EU Countries, nor is there any need for details of the flight to be notified to Border Force. However, if the aircraft is carrying stores, these together with a copy of the stores list on form C208 must be made available for Border Force examination if required for customs and excise purposes.

1.11 Flights from/to Countries Outside the EU

1.11.1 **Arrival in the United Kingdom from outside the EU**

1.11.1.1 Place of arrival. Unless special permission has been obtained from the Border Force for both customs and excise and immigration purposes, the commander of an aircraft entering the United Kingdom from a place outside the EU may not land at any place other than one of the airports listed at Appendix C which is approved for both customs and excise and immigration purposes unless the airport is covered by a Certificate of Agreement issued by the Border Force. Non-scheduled flights need to give advance notice by completing the General Aviation report (GAR) with the timeframes specified on the report.

1.11.1.1.1 All aircraft have to report their expected arrival to the Border Force at least 24 hours (12 hours if arriving from the Channel Islands) prior to arrival. Aircraft commanders and operators should report their expected arrival by completing and submitting a General Aviation Report (GAR) form. The GAR can be submitted over the internet using an approved GAR submission portal. Details of approved GAR submission internet portals are available at: https://www.gov.uk/government/publications/general-aviation-operators-and-pilots-notification-of-flights
Aircraft commanders and operators are strongly advised to use an approved internet portal to submit the GAR. Internet portals are the most efficient method of submitting a GAR and provide users with a message and unique reference number confirming successful submission of the GAR. Alternatively the GAR can be emailed to NCU@hmrc.gsi.gov.uk. In addition the GAR should also be submitted to a local Border Force Office if local reporting arrangements are in place. The airfield operator will be able to inform you if this is necessary. If a GAR is submitted to a local Border Force office it must also be emailed to NCU@hmrc.gsi.gov.uk or submitted via an approved GAR internet portal. The title of the email should be titled:*'GAR, airfield registration, name of airfield, postcode of airfield (if known)'.* The GAR form and instructions are available at: https://www.gov.uk/government/publications/general-aviation-operators-and-pilots-notification-of-flights

1.11.1.2 Timely requests for the special permission referred to should be made by or on behalf of the commander of an aircraft through the operator of the aerodrome to the appropriate local offices of the Border Force for customs and excise and immigration services. It should be noted that the grant of such permission in no way affects the need for compliance with the relevant Article of the Air Navigation Order which requires particular aircraft to use a licensed aerodrome when engaged in the public transport of passengers.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

1.11.1.3 When an aircraft lands at a designated airport the aircraft commander must bring it to the examination station and report its arrival to the Border Force for customs and excise purposes. The Border Force office for the airport of arrival should be contacted for advice on the procedure for making report there concerning customs and excise matters (including any documentary requirements), as such procedures may vary depending on local circumstances.

1.11.1.3.1 If the aircraft has stores on board, they must be declared to the Border Force in accordance with the procedure in operation at the airport concerned (generally using Form C209).

1.11.1.3.2 Liability of Aircraft to Customs Duty and VAT

a) Duty: Civil aircraft are eligible for relief of customs duty on importation into the EU under the end-use arrangements if imported by persons established in the customs territory of the Community (see HM Revenue and Customs Notice 770);
b) VAT: Aircraft are liable to VAT at the standard rate.
c) Relief from customs duty and import VAT may be available on civil aircraft registered outside the EU (or if it is not registered, where it is owned by a person resident outside the EU) where it is temporarily imported into the EU for private or commercial transport use,(see HM Revenue and Customs Notice 308 Temporary Admission – temporarily importing non EU Means of Transport). Relief under Temporary Admission is subject to certain conditions, these include that the importer:

i. is a non-EU resident; and
ii. intends to re-export the aircraft after use (the maximum period of relief for private use is 6 months, relief for commercial use for transport which begins or ends outside the EC is available for the time it takes for the carriage, picking up and setting down of passengers, loading and unloading goods, subject to a maximum of 24 months).
iii. Relief for EU residents is available in limited circumstances and subject to more restricted periods of use.

1.11.1.3.3 The provisions of this paragraph apply both to aircraft which have entered the United Kingdom direct from a non-EU Country and to those which have made a stopover at an airport in another EU Country.

1.11.1.4 **Departure from the United Kingdom for a destination outside the EU**

1.11.1.4.1 Unless special permission has been obtained from the Border Force, the commander of an aircraft may not depart from the United Kingdom to any place or area outside the EU except from a designated airport. Timely requests for the special permission referred to should be made by or on behalf of the commander of an aircraft through the operator of the aerodrome to the appropriate Border Force local office. (Note: Special permission is not required for outward non-scheduled flights for non-EU destinations from Certificate of Agreement airports, just prior notification using the General Aviation Report (GAR)).

1.11.1.4.1.1 All aircraft have to report their expected departure to the Border Force at least 24 hours (12 hours if flying to the Channel Islands) prior to departure. Aircraft commanders and operators should report their expected arrival by completing and submitting a General Aviation Report (GAR) form. The GAR can be submitted over the internet using an approved GAR submission portal. Details of approved GAR submission internet portals are available at: https://www.gov.uk/government/publications/general-aviation-operators-and-pilots-notification-of-flights
Aircraft commanders and operators are strongly advised to use an approved internet portal to submit the GAR. Internet portals are the most efficient method of submitting a GAR and provide users with a message and unique reference number confirming successful submission of the GAR. Alternatively the GAR can be emailed to NCU@hmrc.gsi.gov.uk. In addition the GAR should also be submitted to a local Border Force Office if local reporting arrangements are in place. The airfield operator will be able to inform you if this is necessary. If a GAR is submitted to a local Border Force office it must also be emailed to NCU@hmrc.gsi.gov.uk or submitted via an approved GAR internet portal. The title of the email should be titled:*'GAR, airfield registration, name of airfield, postcode of airfield (if known)'.* The GAR form and instructions are available at: https://www.gov.uk/government/publications/general-aviation-operators-and-pilots-notification-of-flights

1.11.1.4.2 It should be noted that the grant of such permission in no way affects the need for compliance with the relevant Article of the Air Navigation Order which requires particular aircraft to use a licensed aerodrome when engaged in the public transport of passengers.

1.11.1.4.3 Any stores on board or loaded onto an aircraft, together with the stores list on form C208 must be made available for Border Force examination if required for customs and excise purposes. The Border Force will advise details of any other documentary requirements, relating to customs and excise matters, which may vary from place to place depending on local circumstances.

1.11.1.4.4 The provisions of this paragraph apply both to direct flights to non-EU destinations and to those where the aircraft makes a stopover at an airport in another EU country.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

2 Scheduled Flights

2.1 Flights to and from the United Kingdom - Scheduled Flights - Commercial

2.1.1 Flights to/from countries within the European Economic Area (EEA)

2.1.1.1 Under EC Regulation 2408/92 on Market Access carriers registered in a European Economic Area country may operate freely between those countries including cabotage. Permission is not required from the United Kingdom Department for Transport (DfT) for EEA airlines to operate on such routes which are available to them under EC Regulation 2408/92.

2.1.2 The European Economic Area consists of the following countries:

Austria	Belgium	Bulgaria†	Cyprus	Czech Republic	Denmark	Estonia
Finland	France	Germany	Greece	Hungary	Iceland	Republic of Ireland
Italy	Latvia	Lichtenstein	Lithuania	Luxembourg	Malta	Netherlands
Norway	Poland	Portugal	Romania	Slovakia	Slovenia	Spain
Sweden	Switzerland	United Kingdom				

† Bulgaria is currently partially excluded from the internal aviation market. Bulgarian operators may therefore be required to apply to DfT for specific permissions.

Note: *The Market Access Regulations do not include the Channel Islands and the Isle of Man. Scheduled services to these destinations currently require DfT operating permits.*

2.1.3 Airlines are, however, required to fulfil the following:

a) Confirmation to be made to the DfT whether dangerous goods, weapons or munitions of war are to be carried. If it is proposed to carry forbidden goods, as defined in ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc. 9284-AN/905), confirmation should be provided by the airline that an 'exemption' has been issued by the UK CAA. (The term 'Dangerous Goods' has the meaning assigned to it by the Air Navigation (Dangerous Goods) Regulation 2002). For more details contact: Dangerous Goods Office, CAA, Aviation House, Gatwick Airport, West Sussex RH6 0YR.Tel: 01293-573800, Fax: 01293-573991, Telex: 878753 CAA SRG, e-mail dgo@srg.caa.co.uk);
b) Air Travel Organisers Licence (ATOL), as set out at GEN 1.2. paragraph 3.7.

2.2 Flights to/from Countries Outside the European Economic Area (including services involving the Channel Islands, Isle of Man, Gibraltar and UK Overseas Territories)

2.2.1 DfT Operating permits for scheduled services are required under Article 138 of the Air Navigation Order 2005, Article 77 of the Air Navigation Order 1972 (for flights to Jersey), Article 77 of the Air Navigation Order 1976 (for flights to the Isle of Man), Article 80 of the Air Navigation Order 1980 (for flights to Guernsey) and Article 135 of the Air Navigation (Overseas Territories) Order 2007 and will be issued in accordance with the traffic rights available under the UK's bilateral air services agreements with the carrier's State. Permits are normally granted on a seasonal basis.

2.2.2 Designation

2.2.2.1 Formal designation of the carrier to operate agreed routes under the relevant bilateral Air Services Agreement will be required. If the airline is not already designated, DfT will require confirmation by the airline's aeronautical authority that it is prepared to designate the airline under the relevant air services agreement before permission will be granted.

2.2.3 Operators wishing to apply for the permission required must also provide the following information to DfT:

a) Schedule, including start date, of the proposed service;
b) Type of aircraft to be used;
c) In some cases airlines may be required to file tariffs for passenger services with the Foreign Carrier Permits Department, Civil Aviation Authority, foreigncarrierpermits@caa.co.uk, Fax 020-7453 6322, Tel 033-0138 3484.

2.2.4 Documentary Requirements

a) Certificate of Competency and/or Air Operators Certificate and an Operating Licence issued by the aeronautical authority of the airline's country of registration;
b) Certificate of Airworthiness and Certificate of Registration issued by the aeronautical authority of the country of registration for all aircraft to be used on services to the UK;
c) Certificate of liability insurance for passengers and third party risks in respect of each aircraft to be used on services to the UK. For cargo flights, certificate of third party liability. The level of insurance must meet the minimum levels of insurance for passenger and third party liability set out in Articles 6 and 7 of EC Regulation 785/2004;
d) Dangerous Goods confirmation as set out in paragraph 2.1.3 (a);
e) Air Travel Organisers Licence (ATOL) as set out at GEN 1.2. paragraph 3.7 (not for cargo services);

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

f) A statement that flight crews' Non-Precision and Category 1 Aerodrome Operating Minima complies with the UK Air Navigation Order;

Note: *The notified method for calculating UK minima is set out in the UK AIP Aerodrome (AD Volume 1);*

g) Statement that the aircraft operator is aware of the UK Approach Ban requirements set out in the UK Air Navigation Order, and that flight crews will be issued with written instructions with regard to the UK Air Navigation Order prior to operating the flights into the UK;

Note: *Statements about Aerodrome Minima and Approach Ban are to be made to the DfT but any enquiries should be made to the Flight Operations Policy Dept, Civil Aviation Authority, Aviation House, London Gatwick Airport, West Sussex RH6 0YR. Tel: 01293-573414, Fax: 01293-573991, Telex: 878753;*

h) Noise certificate of aircraft to be used (all aircraft must be Chapter 3 compliant);

i) Confirmation that Airborne Collision Avoidance System (ACAS II or TCAS Version 7.1) is fitted (if not, provide exemption statement by the airline's aeronautical authority).

2.2.5 Leased Aircraft

2.2.5.1 DfT will also require the above documents in regard to any foreign registered aircraft leased from another carrier which the applicant carrier proposes to use to the UK and additionally the following information:

a) Confirmation that the lease has been approved by the lessee's aeronautical authorities;
b) confirmation of which airline's operations and flight manuals will be used;
c) contact details of the lessor airline (name, address, telephone, fax, telex, e-mail);
d) copy of the lease agreement;

Note: *Documents should be provided in the English language. If they are submitted in a foreign language, DfT may request an English translation to be provided.*

2.3 Applications

2.3.1 Applications to be submitted at least two months prior the start of the operating season in question, or start date proposed for new services, to: DfT, International Aviation & Safety Division, First Floor, Great Minster House, 76 Marsham Street, London SW1P 4DR as follows:

Fax: 020-7944 2194, e-mail: airlineoperatingpermits@dft.gsi.gov.uk

For operators of aircraft registered in the CIS, Asia, Far East, Australasia, Central, North and South America, including the Caribbean

- IASD1: Tel: 020-7944-5804, 020-7944 5848; 020-7944-5849, 020-7944-5807;

For operators of aircraft registered in Africa, Middle East and Europe (including Baltic States, but excluding CIS)

- IASD2: Tel: 020-7944-5847, 020-7944-5806, 020-7944-5812;

Note: *Applications for seasonal permits will be considered only during normal office hours. Operating permits will be refused to any airlines, type or specific aircraft or aircraft registered in States where evidence suggests do not comply with international safety standards, including those banned within the European Union. The list of which can be found at http://ec.europa.eu/transport/air-ban/list_en.htm*

2.4 Overflight and Non Traffic Stops

2.4.1 Prior permission is not required for scheduled flights by aircraft registered in countries that are parties to the International Air Services Transit Agreement (IASTA) or where the relevant UK bilateral Air Services Agreement allows overflying the UK or making stops for non-traffic purposes. Prior permission is, however, required for such flights by aircraft registered in countries that are not party to IASTA or where the relevant bilateral Air Services Agreement does not provide for either first and second freedom rights and should be sought in accordance with the procedure set out in paragraph 2.2.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

3 Non-Scheduled Commercial Flights

3.1 Procedures

3.1.1 **Overflying and Technical Stops**

3.1.1.1 Prior permission is not required for non-scheduled flights by aircraft registered in countries which are parties to the Chicago Convention (Contracting States) overflying the United Kingdom or making stops for non-traffic purposes. Prior permission is, however, required for such flights by aircraft registered in countries which are not parties to the Chicago Convention and should be sought in accordance with the procedure set out in paragraph 3.8.

3.2 Traffic Stops

3.2.1 Civil aircraft registered in Chicago Contracting States operating flights for valuable consideration, may not take on board or discharge passengers or goods in the United Kingdom, except with the prior permission of the Secretary of State for Transport (DfT), granted under the UK Air Navigation Order, to the operator or charterer of the aircraft or to the Government of the country in which the aircraft is registered. Applications for such permission should be made in accordance with the procedures set out in paragraphs 3.8 to 3.12 as appropriate.

3.2.2 Flights to/from countries within the European Economic Area (EEA)

3.2.2.1 Under EC Regulation 2408/92 on Market Access carriers registered in a European Economic Area (EEA) country may operate freely between those countries including cabotage. Permission is not required from the DfT for EEA airlines to operate on such routes which are available to them under EC Regulation 2408/92.

3.2.3 The European Economic Area consists of the following countries:

Austria	Belgium	Bulgaria†	Cyprus	Czech Republic	Denmark	Estonia
Finland	France	Germany	Greece	Hungary	Iceland	Republic of Ireland.
Italy	Latvia	Lichtenstein	Lithuania	Luxembourg	Malta	Netherlands
Norway	Poland	Portugal	Romania	Slovakia	Slovenia	Spain
Sweden	Switzerland	United Kingdom				

† Bulgaria is currently partially excluded from the internal aviation market. Bulgarian operators may therefore be required to apply to DfT for specific permissions.

Note: *The Channel Islands, Isle of Man and Gibraltar are currently outside the scope of the market access regulation.*

3.3 Charter Services Operated in Place of a Scheduled Service

3.3.1 A charter flight operated in place of a scheduled service and which does not comply with the terms of the operating permit originally issued becomes a non-scheduled flight. The United Kingdom does not recognise the concept of 'blocked-off' scheduled flight, which this sort of flight is sometimes termed, and the prior permission from the DfT must be obtained in accordance with the procedures set out in paragraphs 3.8 to 3.12 as appropriate, before such a flight is operated.

3.4 Cabotage

3.4.1 Other than flights under EC Regulation 2408/92 on Market Access, the DfT is prepared to consider applications only in accordance with its procedures for processing applications by foreign airlines wishing to operate fifth freedom charter flights to/from the UK (there are separate procedures for cargo and passenger flights). A copy of the procedures, which apply 'no-objections' and reciprocity of treatment by other governments towards similar flights by UK airlines, can be obtained from the DfT geographical desks given at paragraph 3.14 or at http://www.dft.gov.uk/stellent/groups/dft_control/documents/contentservertemplate/dft_index.hcst?n=14338&l=2. The procedures cover such applications for flights between one place in the United Kingdom and another place in either the United Kingdom or in a United Kingdom Overseas Territory or Associated State.

3.5 Fifth and Seventh Freedom Flights

3.5.1 The DfT is prepared to consider applications **only** in accordance with its procedures for processing applications by foreign airlines wishing to operate fifth freedom charter flights to/from the UK. A copy of the procedures, which apply 'no-objections' from UK airlines and reciprocity of treatment by other governments towards similar flights by UK airlines, can be obtained from the DfT geographical desks given at paragraph 3.14 or at http://www.dft.gov.uk/stellent/groups/dft_control/documents/contentservertemplate/dft_index.hcst?n=14338&l=2.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

3.5.2 The DfT's 'no-objections' procedures do not apply to the following flights:

a) Flights by EEA carriers under EC Regulation 2408/92 on Market Access;
b) flights that are permitted under the 1956 Multilateral Agreement on Commercial Rights of Non-Scheduled Air Services in Europe; and
c) flights to which EC Council Directive 92/50 relating to the co-ordination of procedures for the award of public services contract applies.

3.6 1956 Multilateral Agreement on Commercial Rights of Non-Scheduled Air Services in Europe

3.6.1 The United Kingdom is a party to the Multilateral Agreement. To give effect to the provisions of this Agreement, permits covering the exercise of traffic rights in the United Kingdom for the categories of flight listed in paragraph 3.6.3 (a) to (e), have been issued to the Governments of the other States which have ratified, or adhered to, the Agreement. Prior permission for each flight operated under such permits is not necessary but should be notified, in advance, to the DfT (Fax: 020-7944 2194, e-mail: airlineoperatingpermits@dft.gsi.gov.uk), giving details as shown in paragraph 3.8.4.

3.6.2 The countries signatory to the 1956 Multilateral Agreement are:

Austria	Belgium	Croatia	Denmark	Estonia	Finland	France
Germany	Hungary	Iceland	Republic of Ireland	Luxembourg	Macedonia	Moldova
Netherlands	Norway	Portugal	Spain	Sweden	Switzerland	Turkey
United Kingdom						

3.6.3 Categories of flight:

a) All-Cargo charters;
b) flights for the purpose of meeting humanitarian or emergency needs;
c) taxi class passenger flights of occasional character on request, provided that the aircraft does not have a seating capacity of more than ten passengers and provided that the destination is chosen by the hirer or hirers and no part of the capacity of the flight is resold to the public;
d) flights on which the entire space is hired by a single person (individual, firm, corporation or institution) for the carriage of his or its staff or merchandise, provided that no part of such space is resold;
e) single flights, no operator or group of operators being entitled under this sub-paragraph to more than one flight per month between the same two traffic centres for all aircraft available to him.

3.6.4 Operators should note that although non-scheduled flights can be operated under the terms of the Multilateral Agreement as indicated above, they will nevertheless need to comply not only with the UK regulations for that category of traffic but also with the regulations of the country at the other end of the route.

3.6.5 The following details in respect of each flight operated in accordance with paragraph 3.6.3, but excluding taxi class flights as in paragraph 3.6.3 (c), for which no notification is required must be furnished to the DfT not less than two full working days before the operation:

a) Name of airline;
b) type of aircraft, nationality and registration marks;
c) date(s) and programmes of flight(s);
d) nature of flight, eg cargo, sole-use charter, etc;
e) name, address and business of charterer, the number of passengers and/or the nature and amount of cargo to be taken on or put down;
f) when applicable, the Air Travel Organiser's Licence Number for passenger charters. See paragraph 3.7.

3.7 Air Travel Organisers' Licences (ATOL)

3.7.1 Any person who makes available in the United Kingdom, or holds themselves out in the United Kingdom as a person who may make available, accommodation for carriage of persons on an aircraft is required, under the provisions of the Civil Aviation (Air Travel Organisers' Licensing) Regulations 1995 (SI 1995/1054) to hold an appropriate Air Travel Organiser's Licence, issued by the United Kingdom Civil Aviation Authority (CAA) authorising him to do so, unless:

a) He will be the operator or reasonably believes that he will be the operator of the relevant aircraft when the flight is made;
b) he is acting as agent on behalf and with the authority of a disclosed identified ATOL holder;
c) he is a person who is exempted by the CAA from the need to hold an ATOL;
d) before accepting any payment he supplies a valid ticket for travel in respect of any flight accommodation which he makes available.

3.7.2 Details of the conditions of, and applications for Air Travel Organisers' Licences can be found here https://www.caa.co.uk/ATOL-protection/Trade/About-ATOL-and-how-to-apply/

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

3.8 Other Charter Flights

3.8.1 General Procedures (types of charter).

3.8.2 Prior permission is required for all types of flights other than:

a) Private flights;
b) flights as listed in paragraph 3.1.1 (ie overflying/technical stops);
c) flights in Europe as listed in paragraph 3.2.2.1;
d) third and fourth freedom passenger and cargo charters by US 'charter designated' carriers who need to file in advance details of flights or flight programmes only, accompanied where necessary by passenger lists, etc.

3.8.3 Operators should make applications for permits, where required, or filings in the case of US designated carriers, to the DfT on the geographical desk basis detailed in paragraph 14. Operators should give as much notice of the proposed flights as possible and, except in cases of genuine urgency (see paragraph 3.8.4 Note 1) at least two full working days before the arrival in, or departure from, the United Kingdom. Applications for fifth or seventh freedom or cabotage flights must be made in accordance with the timescales in the DfT's procedures for processing applications by foreign airlines wishing to operate fifth freedom charter flights to/from the UK. It is recommended that requests for permission are made on the application forms available at http:// www.dft.gov.uk/stellent/groups/dft_aviation/documents/ page/dft_aviation_040026.hcsp.

3.8.4 All applications for permission must include the following details:

a) Name of airline and address to which permit should be sent;
b) type of aircraft, nationality or registration marks;
c) date and programme of flights;
d) place of embarkation or disembarkation abroad, as the case may be, of passengers and/or cargo;
e) nature of flight eg cargo, inclusive tour, sole-use charter etc (see conditions set out in paragraphs 3.8.5 to 3.8.9);
f) name, address and business of charterer, the number of passengers and/or the nature and amount of cargo to be taken on or put down;
g) when applicable, the Air Travel Organiser's Licence Number.

Note 1: *The reason for the urgency* ***must*** *be stated in any application submitted at less than the specified period of notice. Outside normal office hours (0900 to 1730 local, Monday to Friday), applications should be made to the DfT Duty Office either by fax or e-mail (Fax: 020-7944-5369, e-mail: duty.officers@dft.gsi.gov.uk). Tel: 020-7944 5999. All messages must contain all of the information about the flight set out at (a) to (g) above.*

Note 2: *In considering applications for permission to operate non-scheduled flights to and/or from the United Kingdom, the DfT will take into account the conditions imposed by foreign States on similar flights by United Kingdom operators.*

3.8.5 **Special Event Charters**

3.8.5.1 A special event charter flight is a flight for the carriage of persons all of whom have a bona fide intention of participating in a special event of a sporting, religious, cultural, or other nature who have, before their outward journey, been provided with a ticket for a round-trip entitling them to be carried on both their outward and return journeys by air.

Note: *The DfT will only consider applications for permission to operate fifth or seventh freedom special event charters in accordance with its procedures for processing applications by foreign airlines wishing to operate fifth freedom charter flights to or from the UK. Applications should include the details set out in paragraph 3.8.4, together with full details of the special event in question and of arrangements for surface transport between the event and the airport. The operator will normally be required to certify that each passenger has a bona fide intention of attending the event - eg has a valid ticket to the event.*

3.8.6 **Sole-use (Single Entity) Charters**

3.8.6.1 A sole-use charter flight is a flight solely for the carriage of cargo or passengers with or without their baggage, or both cargo and passengers, in consequence of a person's exclusive right to use the carrying capacity of the aircraft, being:

a) Cargo - all of which is consigned by that person and none of which is carried in pursuance of an agreement between that person and any other person made otherwise than as a term of the sale of the cargo (see also paragraph 3.9.5 for cargo only charter flights);
b) passengers - none of whom are carried for a separate fare: for the purposes of this provision:
    i. any reward wholly or partly in respect of or in connection with the carriage of a passenger (other than remuneration passing from the operator of the aircraft to a member of the crew thereof) shall be deemed to be a fare, irrespective of the person by or to whom it has been given: provided that reward for exclusive right to use the passenger capacity of the aircraft shall not be a fare; and
    ii. a fare shall be deemed to be separate although it is for several journeys, or for a journey by a group of passengers who are fewer in number than the number of seats occupied on the flight.

3.8.6.2 Applications for permission, or filings in the case of US charter designated carriers, to operate sole-use charter flights should be made as set out in paragraph 3.8.4 and must be submitted together with statements by both the operator and the charterer that the conditions set out above will be complied with.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

3.8.7 **Cargo Charters**

3.8.7.1 Applications for permission to operate cargo charter flights should be made to the geographical desk at DfT detailed at paragraph 3.14, by country of registration of the aircraft involved. Filings by US charter designated carriers should be made to the address given at paragraph 3.14. The attention of operators is drawn to GEN 1.4. paragraph 1.2 and GEN 1.4 paragraphs 3.1 and 3.2.

3.8.7.2 Applications must contain confirmation whether dangerous goods, weapons or munitions of war are to be carried, if it is proposed to carry forbidden goods, as defined in ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284-AN/905), confirmation should be provided by the airline that an 'exemption' has been issued by the UK CAA (The term 'Dangerous Goods' has the meaning assigned to it by the Air Navigation (Dangerous Goods) Regulations 2002). For more details contact: Dangerous Goods Office, CAA, Aviation House, Gatwick Airport, West Sussex RH6 0YR.(Tel: 01293-573800 Fax: 01293-573991, Telex: 878753 CAASRG, e-mail: dgo@srg.caa.co.uk).

3.8.7.3 Airlines are reminded that applications for fifth or seventh freedom cargo charters must be made in accordance with DfT procedures for such flights. These are available from the DfT geographical desks and at http://www.dft.gov.uk/stellent /groups/ dft_control/ documents/contentservertemplate/dft_index.hcst?n=14338&l=2.

3.9 Inclusive Tour Charters

3.9.1 Inclusive Tour Charter Services - Other Routes.

3.9.1.1 Operators of aircraft registered in a Chicago Convention Contracting State, wishing to apply to the DfT for the permission required under the Air Navigation Order, to operate inclusive tour charter services to/from the United Kingdom, are reminded that their applications must give the following information for each series of flights:

a) full name and address of operator;
b) nationality, registration marks of aircraft, and capacity to be provided during the whole period (on round trip basis) and showing, where there is more than one tour organiser, the number of seats allocated to each organiser;
c) programme of operations, including the itinerary of the aircraft;
d) name(s) and address(es) of the travel agency(ies) or tour organiser(s) and, where applicable, the number of the Air Travel Organiser's Licence (see paragraph 3.10.1.3 Note 1);
e) details of the conditions under which the inclusive tour is organised:

    i. minimum price payable by a passenger for the inclusive tour (see paragraph 3.10.1.3 Note 3);
    ii. complete routeing of the inclusive tour;
    iii. duration of inclusive tour (including stay at hotel).

3.9.1.2 Applications should be sent to the DfT geographical desk detailed in paragraph 3.14. Separate applications are required for flights to Jersey, Guernsey and the Isle of Man. In addition to operational requirements as set out in other parts of the United Kingdom AIP, operators must ensure that all documentary requirements specified in GEN 1.2.paragraph 3.15 are complied with.

Note: *Applications will not be considered without all the above information.*

3.10 In accordance with the recommendations of the European Civil Aviation Conference (ECAC), DfT requires application for seasonal inclusive tour charter flights to be made by the following dates:

a) For flights between 1 April and 31 October, by 15 January;
b) for flights between 1 November and 31 March, by 1 September.

3.10.1 These time limits shall not, however, apply to single flights or series of flights for which information is not available by the dates specified. In these cases DfT will require a minimum of two full working days notice for single flights and five full working days for series of flights. Any alterations in the condition of operational programmes already approved must be submitted for approval at the earliest possible date.

3.10.2 DfT will only consider applications from airlines of the country of origin or destination of the inclusive tour traffic by air, where the air portion of the holiday includes a single terminal point outside the United Kingdom. In the case of a 2-centre or circular tour holiday originating in or including a stop in the United Kingdom, the Department is prepared to consider applications from operators belonging to any of the Countries which appear in the proposed routeing of the tour, provided that the aircraft will be making a stopover (and not merely a fuelling or other technical stop) at the point or points in the territory of the country to which the operator belongs.

3.10.3 The attention of operators of foreign registered aircraft is drawn to the fact that permits issued to them by DfT for inclusive tour charter flights originating in the United Kingdom will contain the following conditions:

By means of the advertising, publicity or booking arrangements to an inclusive tour charter flight or flights to be performed under this permit, passengers shall be informed before entering into the contract of carriage:

a) That the holder of this permit is intended to be the operator of the aircraft performing the flight(s);
b) of the type of aircraft which the operator intends to use for the purpose of performing the flight(s); and
c) of the airport of destination at which it is intended to set down passengers.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Note 1: *Permits will only authorise the carriage of passengers paying an inclusive charge for air transport, surface transport, hotel accommodation and/or facilities in connection with a special event, booked by the tour organisers named in the application for it. It is therefore important that any travel agent(s) associated with the charterer of the aircraft should be named in the application.*

Note 2: *The information given should include a summary of the facilities (other than air transport) between the places named in paragraph 3.9.1.1(c) which are to be provided for the passenger, eg transport from…….. to…… by…… accommodation at…… for…… period, and indicate the nature of the tour, eg single or 2-centre holiday, coach tour, etc. The DfT may request a copy of the relevant tour brochures.*

Note 3: *Charges for inclusive tour charters must comply with regulations prescribed from time to time by the United Kingdom Government.*

3.11 Substitute Charters (Sub-service or Sub-charter Flights)

3.11.1 A substitute charter flight is a flight operated by one operator pursuant to an agreement between that operator and another operator on whose behalf the flight is to be operated, when that other operator holds a licence or permit for the flight.

3.11.2 When the operator of an aircraft registered in any foreign country wishes to exercise traffic rights in the United Kingdom with that aircraft on a substitute flight for another operator (whether that other operator is an operator of a United Kingdom registered aircraft or is the operator of a foreign registered aircraft) prior permission must be obtained from the DfT even though the original operator holds a licence or permit for that flight. Applications for such permission should be submitted by the operator who is to perform the flight, giving reasons for the substitution.

3.11.3 In the case of a substitute flight for other flights described in paragraphs 3.8.5 to 3.8.9 or 3.8.12, the application should be made as set out in paragraphs 3.8 or 3.12 as appropriate; it must include confirmation that the relevant conditions will be complied with, and state the serial number of the licence or permit granted to the operator on whose behalf the flight is to be operated.

Note 1: *In these paragraphs 'licence' means an air service licence granted by the UK CAA to the operator of a United Kingdom registered aircraft.*

Note 2: *In these paragraphs 'permit' means a permit for a flight issued by the DfT to the operator of an aircraft registered in a foreign country.*

3.12 Permits

3.12.1 When a flight has been approved as required by the DfT, a permit will be granted to the operator of the aircraft (see paragraphs 3.8 to 3.11). The airport concerned will be sent a copy of the permit by DfT. For passenger flights, His Majesty's Customs and Revenue will be notified for the purposes of Passenger Duty. Operators are responsible for making their own arrangements with the airport concerned for the reception and handling of the aircraft and should, if necessary, quote the DfT permit number when making these arrangements. Any changes in:

a) The date of operation of the flight into or from the United Kingdom;
b) the nationality or type of the aircraft to be used;
c) the route of the flight; or
d) the charterer or the nature and weight of goods to be taken on board or discharged from the aircraft in the United Kingdom,

must be notified by the operator to the DfT and a variation of the permit obtained before the flight may be operated into or from the United Kingdom. Failure to so notify the DfT may result in the permit for the flight being invalid. Any changes to the times of arrival at or departure from United Kingdom airports for fifth or seventh freedom operations must be notified to the DfT and may require a new application to be made in accordance with DfT's fifth freedom procedures.

3.13 Aerial Photography, Aerial Survey and any form of Aerial Work and Application

3.13.1 Operators of aircraft registered in any foreign country wishing to engage in aerial photography or aerial survey flights in the United Kingdom, whether or not hire or reward is given or for the purpose of any other form of aerial work for hire or reward, are required under the provisions of the UK Air Navigation Order to obtain a permit from DfT. For this purpose they must submit their application to DfT at least **20 full working days** in advance of the proposed operation giving the following information:

a) Name and address of operator;
b) type, nationality and registration mark(s) of aircraft to be used;
c) details of the employer of the crew and photographer (for aerial survey and photography);
d) complete details of proposed operations, including dates, location, height to be flown, etc;
e) documentary requirements:
    i. copy of a valid certificate of airworthiness (copy of annual maintenance log book entries as well, if the certificate of airworthiness is not time limited);
    ii. copy of the certificate of registration;
    iii. copy of the Trust documents if the registered owner is a Trustee;
    iv. copy of valid certificate of insurance; and
    v. radio station licence.

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Note 1: *If the aircraft has been modified for the type of aerial work to be carried out, details of the modifications together with a copy of the approval of the modifications from the aeronautical authority of the state of registry will be required;*

Note 2: *all documents should be provided in the English language. If they are submitted in a foreign language DfT may request an English translation to be provided;*

Note 3: *DfT will consider all applications subject only to receiving advice from the UK CAA.*

3.13.2 Additionally, operators wishing to engage in low flying (whether for agricultural, horticultural or forestry purposes) in the United Kingdom are required under the UK Air Navigation Order to obtain an exemption from the UK CAA. For this purpose they must submit their application with details (a) to (e) above, through the DfT, at least 20 full working days in advance. Operators are advised to obtain a copy of the document entitled 'The Aerial Application Certificate (CAP 414)' published by and obtainable from Tangent Marketing Services Limited, 37 Windsor Street, Cheltenham, Glos. GL52 2DG.

3.14 Applications

3.14.1 Applications for any type of charter should be made to DfT, International Aviation & Safety Division, First Floor, Great Minster House, 76 Marsham Street, London SW1P 4DR as follows:

Fax: 020-7944 2194
Email: airlineoperatingpermits@dft.gsi.gov.uk

Note: Operators are advised to make applications electronically using the downloadable application forms from the DfT web site (www.dft.gov.uk/stellent/groups/dft_aviation/documents/page/dft aviation_040026.hcsp).

For operators of aircraft registered in the CIS, Asia, Far East, Australasia, Central, North and South America, including the Caribbean:

- IASD1: Tel: 020-7944-5804, 020-7944 5848;

For operators of aircraft registered in Africa, Middle East and Europe (including the Baltic States, but excluding CIS)

- IASD2: Tel: 020-7944-5847, 020-7944-5806,

Note: *Operating permits will be refused to any airline, type of or specific aircraft or aircraft registered in States with evidence suggests do not comply with international safety standards. These are listed on the DfT web site (**http://www.dft.gov.uk**).*

3.14.2 Requests for permission made **out-of-hours, public holidays or at weekends** must be made to the DfT out-of-hours Duty Office:

Phone: 020-7944 5999
Fax: 020-7944 5847
Email: duty.officers@dft.gsi.gov.uk

3.14.3 Applications for seasonal permits will be dealt with only during normal office hours.

3.14.4 In addition to operational requirements as set out in other parts of the United Kingdom AIP, operators must ensure that all documentary requirements specified in GEN 1.2 paragraph 3.15 are complied with.

3.15 Documentary Requirements

3.15.1 **Flights to and from the United Kingdom - Non-Scheduled Flights - Commercial**

3.15.1.1 Documentary Requirements

3.15.1.2 In addition to operational requirements as set out in other parts of the UK AIP operators are required to provide copies of the following:

a) Certificate of Competency and/or Air Operator's Certificate and/or an Operating Licence issued by the aeronautical authority of the country of origin;
b) Certificate of Airworthiness and Certificate of Registration issued by the aeronautical authority of the country of origin for each aircraft to be used on services to the UK;
c) Certificate of liability insurance for passengers and third party risks in respect of each aircraft to be used on services to the UK. For cargo flights, certificate of third party liability. The level of insurance must meet the minimum requirements of insurance for passengers and third party liability set out in Articles 6 and 7 of EC Regulation No785/2004;
d) Dangerous Goods confirmation as set out in GEN 1.2. paragraph 3.8.7.2;
e) Air Travel Organisers Licence (ATOL) as set out in GEN 1.2. paragraph 3.7 (not for cargo services);
f) A statement that flight crews Non Precision and Category 1 Aerodrome Operating Minima complies with the UK Air Navigation Order. (Note: The notified method for calculating UK minima is set out in the UK AIP Aerodrome (AD Volume 1);
g) Statement that the aircraft operator is aware of the UK Approach Ban requirements set out in the UK Air Navigation Order and that flight crews will be issued with written instructions with regard to the UK Air Navigation Order prior to operating the flights into the UK;

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Note: *Statements about Aerodrome Minima and Approach Ban are to be made to the DfT, but any enquiries should be made to the Flight Operations Policy Dept. CAA, Aviation House, London Gatwick Airport, West Sussex, RH6 0YR. Tel: 01293 - 573414, Fax: 01293-573991, Telex: 878753.*

h) Noise certificate for each aircraft to be used (all aircraft must be Chapter 3 compliant);
i) Confirmation that Airborne Collision Avoidance System (ACAS II or TCAS Version 7.1) is fitted (if not, provide exemption statement by the airline's aeronautical authority).

3.15.2 **Leased Aircraft**

3.15.2.1 The Department will also require the above documents in regard to any foreign registered aircraft leased from another carrier which the applicant carrier proposes to use to the UK together with the following information:

a) Confirmation that the lease has been approved by the lessee's aeronautical authorities;
b) confirmation of which airline's operations and flight manuals will be used;
c) contact details of the lessor airline (name, address, telephone, fax, telex).

Note 1: *Where possible, documents should be provided in the English language. If they are submitted in a foreign language, DfT may request an English translation to be provided.*

Note 2: *DfT may request a copy of the lease agreement (confidentiality will be maintained).*

4 Private Flights

4.1 Advanced Notification - Non-Scheduled Flights - Non-Commercial

4.1.1 Advance Notice of Permit Requirements

4.1.1.1 Except for airport purposes (GEN 1.2. paragraph 1.1) prior permission is not required for private flights by aircraft registered in States which are parties to the Chicago Convention for overflying the United Kingdom or for making non-traffic stops in United Kingdom territory. Permission for such flights by aircraft registered in States not parties to the Chicago Convention should be sought in accordance with the procedure as set out in GEN 1.2. paragraph 3.8 for commercial flights.

4.1.1.2 Pilots of non-scheduled non-commercial flights, have the obligation in respect of passport-control requirements set out in GEN 1.3. paragraph 2.1 and are to present their passengers on arrival and departure to a UKBA Officer, in accordance with the arrangements approved by the Home Office and notified to the airport manager.

4.1.1.3 The exemption for aircrew detailed in GEN 1.3. paragraph 2.1.1 is not applicable to non-commercial crew and the provisions of GEN 1.3. paragraph 2.2.1 apply.

5 Public Health Measures

NOT APPLICABLE

6 Appendix A — Airports Designated Under Terrorism Act 2000 (GEN 1.2 paragraph 1.5 refers)

Designated Airports (Great Britain)	
Aberdeen	Leeds Bradford
Biggin Hill	Liverpool
Birmingham	London City
Blackpool	London Gatwick
Bournemouth	London Heathrow
Bristol	London Luton
Cambridge	London Stansted
Cardiff	Lydd
Coventry	Manchester
East Midlands	Newcastle
Edinburgh	Norwich
Exeter	Prestwick
Glasgow	Southampton
Gloucestershire	Southend
Humberside	Teesside International

Designated Airports (Northern Ireland)		
Belfast Aldergrove	Belfast City	Londonderry Eglinton (City of Derry)

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Designated Airports (Isle of Man and Channel Islands)	
Alderney	Isle of Man
Guernsey	Jersey

7 Appendix B— United Kingdom Police Forces (GEN 1.2 paragraph 1.5 refers)

England and Wales

Constabulary (unless 'Police' in title)	Addresses	Telephone Number
Avon and Somerset	PO Box 37, Valley Road, Portishead, Bristol. BS20 8QJ	0845-456 7000
Bedfordshire Police	Woburn Road, Kempston, Bedfordshire. MK43 9AX	01234-841212
Cambridgeshire	Hinchingbrooke Park, Huntingdon. PE29 6NP	0845-456 4564
Cheshire Police	Clemonds Hey, Oaksmere Road, Winsford. CW7 2UA	0845-458 0000
Cleveland Police	Ladgate Lane, Middlesbrough, Cleveland. TS8 9EH	01642-326326
Cumbria	Carleton Hall, Penrith, Cumbria. CA10 2AU	0845-330 0247
Derbyshire	Butterley Hall, Ripley, Derbyshire. DE5 3RS	0845-123 3333
Devon and Cornwall	Middlemoor HQ, Exeter. EX2 7HQ	0845-277 7444
Dorset Police	Winfrith, Dorchester, Dorset. DT2 8DZ	01305-222222
Durham	Aykley Heads, Durham. DH1 5TT	0845-606 0365
Dyfed-Powys Police	PO Box 99, Carmarthen. SA31 2PF	0845-330 2000
Essex Police	PO Box 2, Springfield, Chelmsford, Essex. CM2 6DA	01245-491491
Gloucestershire	No.1 Waterwells Drive, Quedgeley, Gloucester GL2 2AN	0845-090 1234
Greater Manchester Police	PO Box 22, Manchester. M16 0RE	0161-872 5050
Gwent	Croesyceiliog, Cwmbran. NP44 2XJ	01633-838111
Hampshire	West Hill, Winchester, Hampshire. SO22 5DB	0845-045 4545
Hertfordshire	Stanborough Road, Welwyn Garden City, Herts. AL8 6XF	0845-330 0222
Humberside Police	Priory Police Station, Kingston-upon-Hull. HU5 5SF	0845-606 0222
Kent Police	Sutton Road, Maidstone, Kent. ME15 9BZ	01622-690690
Lancashire	PO Box 77, Hutton, Preston. PR4 5SB	0845-125 3545
Leicestershire	St.John's, Enderby, Leicester. LE19 2BX	0116-222 2222
Lincolnshire Police	PO Box 999, Lincoln. LN5 7PH	01522-532222
London Metropolitan Police	New Scotland Yard, Broadway, London. SW1H 0BG	020-7230 1212
London, City of, Police	37 Wood Street, London. EC2P 2NQ	020-7601 2455
Merseyside Police	Canning Place, Liverpool, Merseyside. L69 1JD	0151-709 6010
Norfolk	Falconers Chase, Wymondham, Norfolk. NR18 0WW	0845-456 4567
Northamptonshire Police	Wootton Hall, Northampton. NN4 0JQ	0845-370 0700
Northumbria Police	North Road, Ponteland, Newcastle upon Tyne. NE20 0BL	01661-872555
North Wales Police	Glan-y-Don, Colwyn Bay, Conwy. LL29 8AW	0845-607 1002
North Yorkshire Police	Newby Wiske, Northallerton. DL7 9HA	0845-606 0247
Nottinghamshire Police	Sherwood Lodge, Arnold, Nottingham. NG5 8PP	0115-9670999
South Wales Police	Cowbridge Road, Bridgend. CF31 3SU	01656-655555
South Yorkshire Police	Snig Hill, Sheffield. S3 8LY	0114-220 2020
Staffordshire Police	Cannock Road, Stafford. ST17 0QG	0845-330 2010
Suffolk	Martlesham Heath, Ipswich, Suffolk. IP5 3QS	01473-613500
Surrey Police	Mount Browne, Sandy Lane, Guildford, Surrey, GU3 1HG	0845-125 2222
Sussex Police	Malling House, Lewes, East Sussex. BN7 2DZ	0845-607 0999
Thames Valley Police	Oxford Road, Kidlington, Oxfordshire. OX5 2NX	0845-850 5505
Warwickshire Police	PO Box 4, Leek Wootton, Warwick. CV35 7QB	01926-415000
West Mercia	Hindlip Hall, Hindlip, PO Box 55, Worcester. WR3 8SP	0845-744 4888
West Midlands Police	Lloyd House, Colmore Circus, Birmingham. B4 6NQ	0845-113 5000
West Yorkshire Police	PO Box 9, Wakefield. WF1 3QP	0845-606 0606
Wiltshire	London Road, Devizes, Wiltshire. SN10 2DN	0845-408 7000

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Scotland

Constabulary (unless 'Police' in title)	Addresses	Telephone Number
Central Scotland Police	Randolphfield, Stirling. FK8 2HD	01786-456000
Dumfries and Galloway	Cornwall Mount, Dumfries. DG1 1PZ	0845-600 5701
Fife	Detroit Road, Glenrothes. KY6 2RJ	01592-418888
Grampian Police	Queen Street, Aberdeen. AB10 1ZA	0845-600 5700
Lothian and Borders Police	Fettes Avenue, Edinburgh. EH4 1RB	0131-311 3131
Northern	Perth Road, Inverness. IV2 3SY	01463-715 555
Strathclyde Police	173 Pitt Street, Glasgow. G2 4JS	0141-532 2000
Tayside Police	PO Box 59, West Bell Street, Dundee. DD1 9JU	01382-223200

Northern Ireland

Constabulary (unless 'Police' in title)	Addresses	Telephone Number
Police Service of Northern Ireland	Brooklyn, 65 Knock Road, Belfast. BT5 6LE	02890-6502 22

Isle of Man and Channel Islands

Constabulary (unless 'Police' in title)	Addresses	Telephone Number
Isle of Man	Glencrutchery Road, Douglas. IM2 4RG	01624-631212
Jersey Police	PO Box 789, Jersey, Channel Islands. JE2 3ZA	01534-612612
Guernsey Police	Hospital Lane, St. Peter Port, Guernsey, Channel Islands. GY1 2QN	01481-725111

8 Appendix C — Designated International Airports - Customs, Immigration and Health (GEN 1.2 paragraph 1.9.1 refers)

8.1 The Aerodromes listed below have been designated for the purpose of customs and excise by the DfT.

8.2 All are also designated points of entry for the purposes of the Immigration Act 1971 except those indicated by Note 1.

8.3 For those aerodromes which are also designated as Sanitary Airports are also identified under International Sanitary Regulations (see Note 2).

Aberdeen
Belfast Aldergrove(2)
Biggin Hill(1)
Birmingham
Blackpool(1)
Bournemouth
Bristol
Cambridge(1)
Cardiff
Coventry(1)
East Midlands
Edinburgh
Exeter(1)
Farnborough(1)
Glasgow(2)
Humberside(1)
Isle of Man(1)(Not designated by the DfT)
Leeds Bradford
Liverpool
London City(1)
London Gatwick(2)
London Heathrow(2)
London Luton
London Stansted

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Lydd[1]
Manchester[2]
Newcastle
Newquay[1]
Norwich
Prestwick[2]
Shoreham[1]
Southampton
Southend
Sumburgh[1]
Teesside International

Note 1: *These aerodromes are NOT Ports of Entry under the Immigration Act 1971.*

Note 2: *These aerodromes are Sanitary Airports under International Sanitary Regulations.*

9 Appendix D - Border Force Airport Offices for Immigration and Customs Related Enquiries

Port	Border Force Port Office Postal Address	Telephone Number	Fax Number
Aberdeen Airport	Border Force Scotland, Terminal Building, Aberdeen Airport, Dyce AB21 7DU	01224-722890/ 0777-5992743	01224-214340
Belfast Airport	Old Customs House, Belfast International Airport, Crumlin BT29 4AB	02894-422500	02894-459211
Birmingham Airport	Border Force, Birmingham International Airport, Birmingham, West Midlands. B37 7YB	0121-606 7364	0121-782 0006
Blackbushe Airport	Refer to Border Force contact for Farnborough Airport		
Blackpool Airport	Border Force Blackpool Airport, Blackpool, Lancashire FY4 2QS	01253-349259	01253-402587
Bristol Airport	Border Force, Bristol Airport, Lulsgate, Bristol BS48 3DY	01275-472843	01275-473147
Cambridge Airport	Border Force, Terminal Building, Cambridge Airport, Newmarket Road, Cambridge CB5 8RX	01223-294213	01223-292836
Cardiff Airport	Border Force, Cardiff International Airport, Vale of Glamorgan, Wales CP62 3BD	01446-712920	01446-712921
Denham Airfield	Refer to Border Force contact for Farnborough Airport		
East Midlands Airport	Border Force, Building 16, East Midlands Airport, Castle Donnington, Derby DE74 2SA	01332-442050	01332-442090
Edinburgh Airport	Border Force Scotland,Terminal Building, Edinburgh Airport, Edinburgh EH12 9DN	07909-681 806/ 0131-348 4021/2/5/6	0131-348 4029
Elstree Airfield	Refer to Border Force contact for Farnborough Airport		
Exeter Airport	Border Force, Exeter Airport, Clyst Honiton, Devon EX5 2BD	01392-366492/ 01392-440310	01392-364156
Fairoaks Airport	Refer to Border Force contact for Farnborough Airport		
Farnborough Airport	Border Force, Control Authorities Office, Farnborough Airport, Hampshire GU14 6XA	01252-526128	01252-526138
Gatwick	Border Force, Ashdown House, Perimeter Road East, Gatwick Airport, West Sussex RH6 0LX	01293-502100	01293-501620
Gatwick Airport North Terminal	Border Force, North Terminal, Gatwick Airport, West Sussex RH6 0PJ	01293-507075	01293-507097
Gatwick Airport South Terminal	Border Force, South Terminal, Gatwick Airport, West Sussex RH6 0NP	01293-502019	01293-501022

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Port	Border Force Port Office Postal Address	Telephone Number	Fax Number
Glasgow Airport	Border Force Scotland, Terminal Building, Glasgow Airport, Paisley PA3 2TD	0141-847 5300/ 07767-248785	0141-887 1566
Heathrow Airport TN 1	Border Force, Terminal 1, Heathrow Airport, Hounslow, Middx TW6 1AP	020-8745 6801	020-8745 6828
Heathrow Airport TN 3	Border Force, Terminal 3, Heathrow Airport, Hounslow, Middx TW6 1QG	020-8745 6900/01/03	020-8745 6943
Heathrow Airport TN 4	Border Force, Terminal 4, Heathrow Airport, Hounslow, Middx TW6 3XA	020-8745 4700	020-8745 4705/4733
Heathrow Airport TN 5	Border Force, Terminal 5, Heathrow Airport, Hounslow, Middx TW6 2GA	020-8196 2500	020-8196 2494
Humberside Airport	Humberside International Airport, Kirmington Ulceby DN39 6AB	01652-688584	01652-688551
Inverness Airport	Refer to Border Force contact for Aberdeen Airport		
Leeds Bradford Airport	Leeds Bradford Airport Whitehouse Lane, Yeadon, Leeds LS19 7TZ	0113-3911920	0113-3911921
Liverpool Airport	Border Force, Liverpool John Lennon Airport, Speke, Liverpool L24 2QS	0151-448 1448	0151-448 1594
London City Airport	Border Force, London City Airport. Royal Docks, Silvertown, London E16 2PX	0207-055 5900	0207-055 5923
Luton Airport	Border Force, London Luton Airport. Percival Way, Luton, Bedfordshire LU2 9LU	01582-878700/878705	01582-878718 01582-878731
Manchester Airport	Border Force, Manchester International Airport, Terminal 1, Manchester M90 1QX	0161-261 5907	0161-261 5801
Newcastle Airport	Newcastle Airport, Terminal Building, Woolsington, Newcastle NE13 8BZ	0191-214 4580	0191-214 0089
Norwich Airport	Border Force, Norwich Airport, Amsterdam Way, Norwich, Norfolk NR6 6EP	01603-268960	01603-268961
Oxford Airport	Refer to Border Force contact for RAF Brize Norton		
Prestwick Airport	Border Force Scotland, 1st Floor Terminal Building, Prestwick Airport, Prestwick KA9 2PQ	01292-478675	01292-478604
RAF Brize Norton	Border Force, Terminal Building, RAF Brize Norton OX18 3LX SECONDARY CONTACT: Border Force, Control Authorities Office, Farnborough Airport, Hampshire GU14 6XA	01993-845992 01252-526128	01993-845992 01252-526138
RAF Northolt	Border Force, RAF Northolt Operations Building, RAF Northolt, West End Road, Ruislip HA4 6NG SECONDARY CONTACT: Border Force contact for Farnborough Airport, otherwise - Mike Hurst (HMI) 07919-218086, Mark Suter (HO) 07802-614709 and Fred Symons (CIO) 07775-668793	020-8833 8949	020-8845 3334
Southampton Airport	Border Force, Southampton Airport SO18 2NL	02380-627107 (Immigration) 02380-612542 (Customs)	02380-627262 (Immigration) 02380-650587 (Customs)
Southend Airport	Border Force, Southend Airport, Southend-on-Sea, Essex SS2 6YH	01702-538573	No fax at present

GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT (continued)

Port	Border Force Port Office Postal Address	Telephone Number	Fax Number
Stansted Airport	Border Force, Stansted Airport, Passenger Terminal, Stansted, Essex CM24 1RW	01279-680118 (Casework)	01279-680145
Teesside International Airport	Teesside International Airport, Darlington, County Durham DL2 1LU	01325-331400	01325-335063
White Waltham Airfield	Refer to Border Force contact for Farnborough Airport		
Wycombe Air Park/ Booker Airfield	Refer to Border Force contact for Farnborough Airport		

GEN 1.3 ENTRY, TRANSIT AND DEPARTURE OF PASSENGERS AND CREW

1 CUSTOMS REQUIREMENTS

1.1 **Aircrew**

1.1.1 **Arriving on Flights from other EU Countries**

1.1.1.1 The duty/tax free allowances do not apply to intra EU crew. No declaration is required to be made unless they are carrying goods which need to be declared such as prohibited or restricted goods. Also, there is no customs restriction on crew members' exit route from the airport (although in practice at most larger airports their movements are constrained by security measures).

1.1.2 **Arriving on Flights from Non-EU Countries**

1.1.2.1 The Border Force officer at the airport of arrival will be able to advise on the arrangements in operation there for clearance of aircrew. Normally, this will involve the crew members in either:

a) Making a declaration on Form C909; or
b) making an oral declaration in the Red Channel or at the Red Point, if they are carrying goods in excess of the customs allowances.

1.1.2.2 The terms of this paragraph apply not only to crew who have arrived on a direct flight from outside the EU, but also to crew whose aircraft has made a stopover at another EU airport.

1.1.3 **Departing on Flights to Non-EU Destinations**

1.1.3.1 It is not normally necessary for crews' effects to be made available for Border Force inspection, except when refund of VAT is being claimed under the Retail Export Scheme. VAT leaflet 704/1 explains the conditions under which aircrew are eligible for the Scheme, and the procedures to be followed.

1.2 **Passengers**

1.2.1 **Arriving on Domestic Flights**

1.2.1.1 The hold baggage of passengers who arrived in the United Kingdom from a non-EU Country and have transferred to a domestic flight will be subject to customs control at the destination airport, if it has not been cleared at the airport of arrival in the United Kingdom. The Border Force officer at the destination airport should be contacted for details of the arrangements.

1.2.2 **Arriving on Flights from other EU Countries**

1.2.2.1 Passengers on direct flights from other EU Countries are not normally required to make any declaration and at most airports proceed through a separate EU exit.

1.2.2.2 The only exception is for passengers who commenced their journey outside the EU and have transferred to a flight to the United Kingdom after arriving in another EU Country. After reclaiming their hold baggage, such passengers must make an oral declaration in the Red Channel or at the Red Point, if they are carrying goods in excess of Customs allowances or prohibited or restricted items. Passengers with nothing to declare should proceed through the Green Channel.

1.2.3 **Arriving on Flights from Non-EU Countries**

1.2.3.1 After disembarkation, passengers completing their journey at a United Kingdom airport reclaim any hold baggage, and if they are carrying goods in excess of Customs allowances, cash or equivalent of €10000 or more, prohibited or restricted items or commercial goods, they must make an oral declaration in the Red Channel or at the Red Point. Passengers with nothing to declare should proceed through the Green Channel. These procedures apply not only to passengers who have arrived on a direct flight from outside the EU, but also to passengers whose aircraft has made a stopover at another EU airport.

1.2.3.2 Passengers who are transferring to a flight to another EU Country do not reclaim their hold baggage, but must declare any goods in their cabin baggage which are in excess of customs allowances.

1.2.3.3 Passengers who are transferring to a flight to a non-EU Country are not required to make any declaration to customs.

1.2.3.4 The Border Force officer at the airport of arrival should be contacted for advice on the arrangements there for passengers transferring to a flight to another United Kingdom airport, as these may vary depending on local circumstances.

1.2.4 **Departing on Flights to Non-EU Destinations**

1.2.4.1 It is not normally necessary for passengers baggage to be made available to Border Force, except when refund of VAT is being claimed under the Retail Export Scheme. VAT leaflet 704/1 explains the conditions under which passengers are eligible for the Scheme and the procedures to be followed.

GEN 1.3 ENTRY, TRANSIT AND DEPARTURE OF PASSENGERS AND CREW

1.3 **Further Information**

1.3.1 Further information on the customs requirements for international travellers, including details of customs allowances, is in Notice 1-Travelling to the UK.

1.4 **Custom's forms and Notices**

1.4.1 Copies of all customs forms, notices and leaflets may be obtained free of charge from the HMRC website www.hmrc.gov.uk or from the HMRC, Customs, International Trade and Excise enquiries service tel: 0845-010 9000.

2 IMMIGRATION REQUIREMENTS

2.1 **Aircrew**

2.1.1 In the case of an aircrew member arriving or departing as such, a valid crew licence or crew member certificate which includes a certification that the holder may at all times re-enter the state of issuance, is acceptable as a document of identity. Aircrew travelling as passengers are required to comply with the provisions of paragraph 2.2.1.

2.1.2 When a person subject to immigration control arrives as a member of the crew of an aircraft and is under an engagement requiring him to leave within seven days as a member of the crew of that or another aircraft, he may enter the United Kingdom without leave and remain until the departure of the aircraft on which he is required by his engagement to leave unless either:

a) There is in force a deportation order against him; or
b) he has at any time been refused leave to enter the United Kingdom and has not since been given leave to enter or remain in the United Kingdom; or
c) a Border Force Officer requires him to submit to examination.

2.1.3 An aircrew member who lawfully enters the United Kingdom without leave by virtue of the foregoing provision, should seek the permission of the Border Force Officer if he wishes to stay longer than seven days.

2.2 **Passengers**

2.2.1 For immigration purposes the United Kingdom, the Channel Islands, the Isle of Man and the Republic of Ireland collectively form a common travel area. A person arriving in the United Kingdom direct from, or departing from the United Kingdom direct to, a place outside the common travel area, is liable to be examined by a Border Force Officer and must produce to him (if required to do so) a valid passport or some other acceptable document satisfactorily establishing identity and nationality or citizenship, endorsed when necessary with a current United Kingdom visa or entry clearance. He must furnish the Border Force Officer with such information as may be required for the purpose of deciding whether he requires leave to enter and, if so, whether and on what terms leave should be given. Information on visa or entry clearance requirements may be obtained from a British Government representative overseas, the Home Office, UKBA or the local Border Force Office.

2.2.2 For the purposes of these requirements the term European Economic Area (EEA) is used to refer to the group of countries listed at GEN 1.2.1.2 paragraph 1 but also includes Iceland, Norway and Liechtenstein.

2.2.3 **Powers and Obligations of Captains and Owners or Agents of Aircraft Under the Immigration Act 1971**

a) Except with the prior approval of the Secretary of State, to embark and disembark passengers only at an airport designated as a port of entry in the GEN 1.2.1.1 Appendix C unless there is reasonable cause to believe all of them to be British citizens;
b) to ensure that persons who have arrived in the United Kingdom do not disembark until examined by a Border Force Officer or other than in accordance with arrangements approved by a Border Force Officer;
c) to ensure that passengers are presented for examination in an orderly manner;
d) to provide a list of crew and passengers if required to do so;
e) to provide landing cards for all passengers who are not British citizens or other nationals of Member States of the EEA;
f) to remove or make arrangements for the removal from the United Kingdom of a passenger arriving in the United Kingdom who is refused leave to enter;
g) to detain in custody persons placed on board an aircraft under the authority of a Border Force Officer;
h) to pay the Secretary of State on demand any expenses incurred by the latter in respect of the custody, accommodation or maintenance of a person at any time after his arrival while he was detained or liable to be detained under the authority of a Border Force Officer unless on arrival that person held a certificate of entitlement, an entry clearance or work permit, or was subsequently given leave to enter before removal directions had been carried out;
i) to remove a person against whom a deportation order is in force, if so directed by the Secretary of State.

2.3 Immigration (Carriers' Liability) Act 1987

2.3.1 Under the Immigration (Carriers' Liability) Act a charge will be levied on carriers who bring to the United Kingdom passengers without proper documentation. The charge will be £2000 for each passenger. The charge will be enforceable by civil action and would arise where a person requiring leave to enter (ie not a British Citizen or other national of the EEA) arrives at the Immigration Control without:

a) A valid passport or document satisfactorily establishing identity and nationality or citizenship; and
b) a valid visa where one is required under the Immigration Rules.

GEN 1.3 ENTRY, TRANSIT AND DEPARTURE OF PASSENGERS AND CREW

2.3.2 Information on visas and documentation can be obtained from British Consulates abroad or from Border Force offices in the United Kingdom; the principal air travel information-systems also carry up-dated information on visas.

2.4 **Landing Cards**

2.4.1 In addition to the general requirements described in paragraph 2 passengers who are not British citizens or other nationals of the EEA will normally be required to produce completed landing cards to the Border Force Officer.

3 PUBLIC HEALTH

3.1 **Public Health Requirements**

3.1.1 The Public Health (Aircraft) Regulations 1979 (England and Wales) give authorised officers and medical officers at airports a number of powers to control the spread of infectious disease, both on arrival and departure. In Scotland and Northern Ireland, broadly similar provision is made in the Public Health (Aircraft) (Scotland) Regulations 1971 (as amended in 1974 and 1978) and the Public Health (Prevention of Infections and Epidemic Diseases - Aircraft) Regulations 1971 (Northern Ireland).

3.1.2 These include powers to inspect aircraft; to de-rat or disinfect the aircraft if necessary; and under certain conditions detain the aircraft on arrival. (Regulations 7, 13, 14 and 16).

3.1.3 Medical officers, under certain conditions, have a number of powers to examine passengers on arrival, to order their isolation, to prohibit their leaving the aircraft, to require a passenger leaving an aircraft to state in writing his name and intended destination address; to cause the removal of an infected passenger from an aircraft; to place passengers under surveillance; or apply a number of additional health protection measures. (Regulations 8, 9, 18, 20, 21 and 23).

3.1.4 In addition, the Regulations impose a number of duties on the commanders of aircraft in terms of notifying cases of infectious disease on board their aircraft prior to landing, as well as supplying information as to the health conditions on board the aircraft once the aircraft has landed (Regulations 11 and 12).

3.1.5 The regulations also give medical officers a number of powers to examine passengers proposing to embark on an aircraft, to prohibit their embarkation if necessary, and under certain conditions to apply any other public health measures required by the Secretary of State for Health (Regulations 27 and 28).

4 FLYING LICENCES AND RATINGS

4.1 **Definitions**

4.1.1 A UK Part-FCL pilot licence means a licence granted in accordance with UK Regulation (EU) No 1178/2011 (as retained and amended into United Kingdom (UK) domestic law under the European Union (Withdrawal) Act), the ‘Aircrew Regulation’.

4.1.2 ‘Part-21 aircraft’ means an aircraft that is subject to UK Regulation (EU) 2018/1139 (as retained and amended into UK domestic law under the European Union (Withdrawal) Act), the ‘Basic Regulation’. The majority of aircraft registered in the United Kingdom are ‘Part-21’ aircraft. A UK registered ‘Part-21 aircraft’ will have a Certificate of Airworthiness or Permit to Fly granted by the CAA.

4.1.3 ‘Non-Part-21 aircraft’ means an aircraft that is not subject to UK Regulation (EU) 2018/1139, the ‘Basic Regulation’. They are aircraft that fall within the categories set out in that Regulation at Annex I or are ‘State’ aircraft. A United Kingdom civil registered ‘non-Part-21 aircraft’ will have a UK national Certificate of Airworthiness or Permit to Fly granted by the CAA.

4.2 **Visiting Pilots holding Third Country ICAO licences**

4.2.1 Unless the CAA directs otherwise, the holder of a valid pilot's licence, granted under the law of a Contracting State to the ICAO Convention or a relevant Overseas Territory, may exercise the privileges of that licence in any UK registered aircraft for a period not exceeding 28 days in a calendar year. This does not apply to student pilot licences and is subject to the following conditions:

a) the licence has been issued in accordance with the relevant international standards as set out in Annex 1 (Personnel Licensing) to the ICAO Convention; and

b) the licence does not include any extraordinary operational or medical conditions, restrictions or limitations; and

c) no flights are made for the purpose of public transport, commercial air transport, or aerial work and the pilot does not receive remuneration; and

d) the holder of the licence does not act as pilot of any aircraft flying in controlled airspace in circumstances requiring compliance with the Instrument Flight Rules and does not give instruction in flying.

e) a declaration is to be made, using forms SRG2141 and SRG2142.

GEN 1.3 ENTRY, TRANSIT AND DEPARTURE OF PASSENGERS AND CREW

4.2.2 Except as may be provided for in UK Regulation (EU) 2020/723, there are no provisions for the validation of instructor or examiner privileges granted under the law of a Contracting State to the ICAO Convention or under the law of a relevant Overseas Territory. Any pilot who wishes to exercise instructor or examiner privileges in a UK registered aircraft to instruct or examine for UK Part-FCL or UK ANO Licence qualifications must hold appropriate UK instructor or examiner privileges issued by the UK.

4.2.3 It should be noted that a licence issued by a Member State of the European Union or the European Economic Area, is considered as a Third Country Licences.

4.3 **Pilots licences for persons residents within the United Kingdom**

4.3.1 UK Part-21 aircraft - pilots flying UK registered 'Part-21 aircraft' for any purpose must hold a UK Part-FCL licence by the UK in accordance with the Aircrew Regulation or validation issued in accordance with UK Regulation (EU) 2020/723 (as retained and amended into UK domestic law under the European Union (Withdrawal) Act).

4.3.2 UK Non-Part-21 aircraft - pilots flying UK registered non-Part-21 aircraft must hold a licence issued in accordance with the current UK Air Navigation Order or hold a validation in accordance with said Order, unless they are the holder of a UK Part-FCL licence.

4.3.3 All pilots who are resident within the UK, must hold a UK licence to operate UK and third country aircraft that are resident within the UK in accordance with Article 2 of UK Regulation (EU) 2018/1139.

4.4 **Pilots of aircraft registered in a third country flying within the territory of the United Kingdom**

4.4.1 Pilots wishing to fly aircraft registered in third countries must comply with the UK Air Navigation Order (UK ANO) Articles 148 and 151, as applicable. This requires the pilot to hold a valid pilot licence, granted or rendered valid under the law of the State of Registry of the aircraft, issued in accordance with the relevant international standards as set out in ICAO Convention Annex 1 (Personnel Licensing).

4.4.2 UK Regulation (EU) 2018/1139, applies to aircraft registered anywhere in the world if they are used by an 'operator established or residing in the United Kingdom'. UK Regulation (EU) 2018/1139 defines an operator as 'any legal or natural person, operating or proposing to operate one or more aircraft.....'.

4.4.3 UK Regulation (EU) 2018/1139 also requires pilots of UK aircraft registered anywhere in the world that are used by operators based in the UK to hold either a valid UK Part-FCL pilot licence or a validation issued in accordance UK Regulation (EU) 2020/723, except where there is an agreement between the UK and the third country of aircraft registry to the contrary.

4.4.4 Pilots of non-Part-21 (Annex I) aircraft registered in third countries and flying within the United Kingdom are unaffected by UK Regulation (EU) 2018/1139 but remain subject to the ANO Articles 148 and 151.

4.5 **Pilots holding licences other than UK Part-FCL or UK ANO licences that are not granted in accordance with the Standards of Annex 1 (Personnel Licensing) to the ICAO Convention**

4.5.1 Pilots whose licences are not ICAO-Annex 1 compliant or include extraordinary operational or medical conditions, restrictions or limitations, must contact the CAA for advice before flying aircraft either registered in the UK, wherever the aircraft based, or registered elsewhere, if the aircraft is based in the UK.

4.6 **Contacting the United Kingdom CAA on licensing matters**

Post: Civil Aviation Authority, Shared Services Centre (Flight Crew Licensing), Aviation House, Beehive Ring Road Crawley, West Sussex, RH6 0YR.
Phone: +44 (0)3300-221972
Email: fclweb@caa.co.uk

GEN 1.4 ENTRY, TRANSIT AND DEPARTURE OF CARGO

1 CUSTOMS AND EXCISE REQUIREMENTS

1.1 **Importation and Exportation of Cargo and Cargo in Transit**

1.1.1 **Movement of Community Goods**

1.1.1.1 With the completion of the Single Market, Community goods moving within the EC are considered to be in 'Free Circulation', and will for the most part, no longer require Community Transit documentation. Community/Free Circulation goods are those which:

a) Originate in the Community; or
b) are goods imported from a non-Community country and which have had all duties and charges paid and are said to be in Free Circulation;
c) goods which have been manufactured in the community wholly or partly from materials or parts which are in Free Circulation.

1.1.2 **Import of Non-Community Goods**

1.1.2.1 The importation of goods from a third country are subject to customs controls and require documentary evidence. Refer to HM Revenue and Customs Notice 199 – Imported goods: Customs procedures and customs debt.

1.1.3 **Transit of Non-Community Goods**

1.1.3.1 Goods which transit the UK and are not in Free Circulation are required to be under Customs control.

1.1.4 **Export of Non-Community Goods**

1.1.4.1 Goods which are to be exported either direct to a third country, or via the EU require an export declaration to be lodged at the Customs office of export. Further information can be found in HM Revenue and Customs Notice 275 – Export Procedures.

1.2 **Freight Charters - Consolidation and Consignment Size**

1.2.1 For outbound cargo charters between the United Kingdom and Europe* there is no minimum consignment size requirement. Consolidation is permitted.

1.2.2 For outbound cargo charters from the United Kingdom, other than to Europe* and the USA, no consignment shall be carried unless it exceeds 500 kg in weight, or 3.0 cubic metres in volume. Consolidation of consignments of less than 500 kg is permitted.

1.2.3 For inbound charters to the United Kingdom, other than from USA and Canada, there are no consignment size or consolidation restrictions.

1.2.4 For inbound charters from Canada, no consignment shall be carried unless it exceeds 500 kg in weight or 3.0 cubic metres in volume. Consolidation of consignments of less than 500 kg is permitted.

1.2.5 Special arrangements apply for both inbound and outbound charters to and from the USA and details can be obtained from IA 2A, Department of Transport.

Note: ** Europe means the area comprising the following countries:*

Albania	Algeria	Andorra
Austria	Belgium	Republic of Bosnia & Herzegovina
Bulgaria	CIS (West of Urals)	Croatia
Czech Republic	Denmark	Finland
France	Germany	Gibraltar
Greece	Hungary	Iceland
Republic of Ireland	Italy	Liechtenstein
Luxembourg	Macedonia	Malta
Monaco	Morocco	Netherlands
Norway	Poland	Portugal (including Azores & Madeira)
Romania	Slovenia	San Marino
Slovak Republic	Spain (including Balearics & Canaries)	Sweden
Switzerland	Tunisia	Turkey (Europe & Asia)
Fed Rep of Yugoslavia (Serbia & Montenegro)		

GEN 1.4 ENTRY, TRANSIT AND DEPARTURE OF CARGO (continued)

2 AGRICULTURAL QUARANTINE REQUIREMENTS

2.1 **TO BE DEVELOPED**

3 DANGEROUS GOODS AND MUNITIONS OF WAR REQUIREMENTS

3.1 **Carriage of Munitions of War**

3.1.1 For operators subject to EASA Ops, CAT.GEN.MPA.155 states that weapons of war or munitions of war may only be carried if approval to do so has been granted by all States whose airspace is intended to be used for the flight. As indicated in GM1 CAT.GEN.MPA.155, there is no internationally agreed definition of the terms 'weapons of war' and 'munitions of war'. For the purposes of flights using UK airspace, these terms are considered to include:

a) any weapon (with or without ammunition);
b) any ammunition;
c) any article containing an explosive or any noxious liquid, gas; or
d) any other thing, which is designed or made for use in warfare or against the person, including parts and accessories for such weapon, ammunition or article.

3.1.2 For all other aircraft (i.e. those not subject to EASA Ops), the UK Air Navigation Order states that munitions of war may only be carried if the Civil Aviation Authority (CAA) has granted permission to do so. The ANO contains the same definition of a munition of war as 3.1.1 above.

3.1.3 Therefore, weapons of war or munitions of war may only be carried by an aircraft within UK airspace if an approval or a permission has been granted by the CAA. Such documents are only granted on a long-term basis rather than for each flight. Application must be made at least 10 working days before the proposed date of the first flight on which weapons of war or munitions of war are to be carried. Applications may either request the approval/permission be granted for a period of one year, or non-expiring. Non-expiring approvals/permissions are subject to an annual fee which is charged by invoice.

3.1.4 If the weapons of war or munitions of war are also classified as dangerous goods, then see also paragraph 3.2 (Carriage of Dangerous Goods).

3.1.5 For details of how to apply for an approval or a permission to carry weapons of war or munitions of war, see paragraph 3.3 (Applications and Enquiries).

3.2 **Carriage of Dangerous Goods**

3.2.1 The requirements concerning dangerous goods vary depending upon which operating regulations apply to the aircraft, as follows:

a) UK commercial air transport aircraft operating under an EASA Ops Air Operators Certificate are subject to CAT.GEN.MPA.200 and require an approval granted by the CAA in order to carry dangerous goods;
b) all other UK registered aircraft are subject to Regulation 4(1)(a) of the Air Navigation (Dangerous Goods) Regulations 2002 and require an approval granted by the CAA in order to carry dangerous goods;
c) non-UK commercial air transport aircraft operating under an EASA Ops Air Operator Certificate are also subject to CAT.GEN.MPA.200 and require an approval granted by the National Aviation Authority of their own State in order to carry dangerous goods within UK airspace;
d) all other non-UK commercial air transport aircraft that are not operating under an EASA Ops Air Operator Certificate (i.e. Third Country Operators) will be subject to EASA Part-TCO once it comes into force and will require an authorisation granted by the European Aviation Safety Agency (EASA) in order to operate in any EASA member State. This authorisation will specify whether or not the operator is authorised to carry dangerous goods. Until such time as EASA Part-TCO becomes applicable to Third Country Operators, a general approval granted by the UK CAA approves the operator to carry dangerous goods within UK airspace provided it holds approval to carry dangerous goods granted by its own State in accordance with International Civil Aviation Organization (ICAO) Annex 18 and the Technical Instructions; and
e) all non-UK, non-commercial air transport aircraft are subject to Regulation 4(1)(a) of the Air Navigation (Dangerous Goods) Regulations 2002 and require an approval granted by the CAA in order to carry dangerous goods.

3.2.2 In addition to the approval described in paragraph 3.2.1, where the ICAO Technical Instructions indicates that a particular type of dangerous goods requires an additional exemption or approval in order to be carried, such approval or exemption must be obtained from the CAA.

3.2.3 Applications for approvals and/or exemptions must be made at least 10 working days before the proposed date of the flight. For details of how to apply for an approval or exemption to carry dangerous goods, see paragraph 3.3.

3.3 **Applications and Enquiries**

3.3.1 Application forms and further information about dangerous goods, weapons of war and munitions of war can be obtained from the following website address:

www.caa.co.uk/dangerousgoods

GEN 1.4 ENTRY, TRANSIT AND DEPARTURE OF CARGO (continued)

3.3.2 Completed application forms should be sent to the Civil Aviation Authority by e-mail, although they may also be sent by post. The applicable addresses and contact details are below:

Email: dgo@caa.co.uk
Phone: +44 (0)1293-573800
Flight Operations, Civil Aviation Authority
Aviation House, Gatwick Airport South
West Sussex
RH6 0YR
United Kingdom

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GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS

1 Introduction

1.1 The entry for RVSM is published in accordance with European RVSM implementation.

1.2 Details of other UK General and Special Equipment requirements may be added once determined.

2 RVSM

2.1 Introduction

2.1.1 Reduced Vertical Separation Minimum (RVSM) operations are mandated in part of the upper airspace of the United Kingdom, other European Civil Aviation Conference (ECAC) member states and some adjacent states (referred to as EUR RVSM airspace). In addition RVSM operations are in place in the majority of the world's continental and oceanic airspace. RVSM airspace in the North Atlantic (NAT) region covers the same flight levels as in the EUR RVSM area. RVSM is the generic term for a reduction in vertical separation from 2000 FT to 1000 FT that can be applied to approved operators of approved aeroplanes operating between FL 290 and FL 410 inclusive. With the exception of State aircraft, Non-RVSM Approved aircraft are not permitted to operate within the EUR RVSM airspace, including in the Scottish FIR/UIR and the London FIR/UIR, except for operators of Non-RVSM Approved aircraft wishing to transit the NAT region above RVSM airspace, that is at FL 430 or above.

2.1.2 The requirements for European RVSM are published in the ICAO documents **Regional Supplementary Procedures (Doc 7030 -EUR) and Procedures for Air Navigation Services Air traffic Management (PANS ATM Doc 4444) plus JAA Temporary Guidance Leaflet No. 6 Revision 1 (TGL 6).** Detailed information on the ATS routes, associated flight level allocation and RVSM entry/exit points in the London and Scottish UIRs are published in the UK AIP.

2.2 Means of Compliance

2.2.1 Except for State aircraft, operators intending to conduct flights within the EUR RVSM airspace require a RVSM approval from the State in which the operator is based or from the State in which the aircraft is registered. To obtain such an RVSM approval operators shall satisfy the said State that:

a) aircraft for which an approval is sought have the vertical navigation performance capability required for RVSM operations through compliance with the criteria of the RVSM minimum aviation system performance standards (MASPS);
b) they have instituted procedures in respect of continued airworthiness (maintenance and repair) practices and programmes; and
c) they have instituted operational procedures and a programme of flight crew training so that they have an in-depth knowledge of the criteria for operating in RVSM airspace and this should include both initial and recurrent training.

2.2.2 For UK based operators and the operators of civil aircraft registered in the UK the RVSM approval is to be obtained from the Civil Aviation Authority Safety and Airspace Regulation Group (SARG). Once obtained the RVSM approval is not restricted to a specific region. Instead it is valid globally, where RVSM procedures are applied, on the understanding that any operating procedures specific to a given region should be stated in the operations manual or appropriate crew guidance. Applications for approval should be made on Form CA4040 (RVSM Approval Application) which is available on the CAA website.

2.2.3 Aircraft that have received State approval for RVSM operations will be referred to as 'RVSM approved aircraft' while those aircraft that have not received such approval will be referred to as 'non-RVSM approved aircraft'. State aircraft that have not been granted RVSM approval should be granted access to RVSM airspace and ATC will apply a 2000 FT separation from other traffic.

2.3 Flight Crew Operating Practices and Procedures

2.3.1 All RVSM airspace is defined by ICAO as 'special qualification airspace'. Accordingly it is important that all operators provide their flight crews with a resume of any special procedures or phraseology applicable to a given RVSM operation. Holders of AOCs are required to have an 'operations manual' in which all pertinent details and procedures are specified. Non-AOC holders are required to submit to the CAA for approval RVSM operations instructions/procedures for use by flight crews.

2.3.2 Operations manuals should include sections on:

a) Equipment Requirements and Minima;
b) Flight Planning;
c) Pre-Flight, In-Flight and Post-Flight Procedures;
d) Contingencies;
e) TCAS/ACAS Alerts;
f) R/T Phraseology;
g) Height Monitoring Requirements.

2.4 Contingencies - Applicable to all RVSM Airspace

2.4.1 **General**

2.4.1.1 Flight crews are to report to ATC as soon as practicable any event that may affect their ability to comply with the ATC clearance,

examples being: severe turbulence, loss of thrust, loss of pressurisation, need to divert, uncertainty of present position, etc. If, at any time, it is not possible to notify ATC immediately that a problem has occurred and obtain a new clearance before departing from the old, comply as accurately as possible with any procedures that may be specified for the airspace, eg NAT contingency Procedures. In all cases a good lookout should be maintained and if the aeroplane is equipped with TCAS/ACAS the visual display should be used to assist in the sighting of proximate traffic.

2.4.1.2 The following equipment failures must be reported to ATC:

a) Loss of thrust on one or more engines necessitating descent;
b) Loss of one or more altimetry systems;
c) Failure of all automatic altitude control systems;
d) Failure of any other equipment that could affect the ability of the aeroplane to maintain flight as cleared.

2.4.2 **Contingencies - Applicable to Specified RVSM Airspace**

2.4.2.1 **UK and EUR RVSM Airspace -** In this RVSM airspace it is expected that all aeroplanes will be in continuous radio contact with ATC either on the assigned frequency or on the distress and emergency frequency (121.500 MHz). They will therefore be able to advise ATC of any abnormal circumstances where RVSM performance requirements cannot be met, including encounters with turbulence greater than 'moderate'. ATC will then respond and issue an appropriate revised clearance before the pilot initiates a deviation from the original clearance. It is recognised, however, that there may be some circumstances (such as emergency descent following the loss of cabin pressurisation) where deviations may have to occur with little or no prior notice to ATC. In such cases the pilot will need to obtain a revised clearance as soon as possible after the deviation.

2.4.2.2 **North Atlantic and other Oceanic or Remote RVSM Airspace (if applicable)** - For oceanic and remote area RVSM application, where continuous direct controller-pilot communication may not always be possible, a range of contingencies have been considered which allow independent action by flight crews. In general they permit crews, in exceptional circumstances, to deviate from assigned clearances by selecting flight levels and/or tracks where other aeroplanes are least likely to be encountered. During such deviations crews are required to make maximum use of aeroplane lighting and to transmit relevant information on all appropriate frequencies, including the distress and emergency frequency. Once contact with ATC has been re-established, the crew will be assisted and issued with new clearances as required. Offset track procedures may be permitted if an encounter with turbulence is considered to be due to wake vortex in accordance with PANS ATM (Section 15.2.4). Specific procedures for the NAT region are contained in Section ENR 2.2 of the UK AIP.

2.5 TCAS/ACAS Alerts and Warnings

2.5.1 Procedures for dealing with TCAS/ACAS Alerts and Warnings are contained in Procedures for Air Navigation Services Aircraft Operations (PANS OPS, ICAO Doc 8168), Part 3, Section 3, Chapter 3.

2.6 RT Phraseology

2.6.1 Phraseology associated with RVSM operations has been developed for European wide use. **All** flights must use this phraseology whilst operating, or intending to operate, between FL 290 and FL 410 inclusive in the London and Scottish UIRs.

2.6.2 Aircraft operators are reminded that, within UK airspace, when responding to ATC the pilot is to append the callsign at the end of the message and not at the beginning.

2.6.3 ATC are to use the controller-controller RVSM phraseology for co-ordination between Air Traffic Service Units (ATSUs). In the event of ATC being advised by the pilot that the aircraft is no longer capable of RVSM operations, it is particularly important that the first ATSU that is made aware of the failure generates the appropriate co-ordination, eg the pilot calls for start-up and declares 'unable RVSM due equipment' and the airport ATSU then passes this message on to the first Air Traffic Control Centre involved with the flight.

2.6.4 The detailed RVSM phraseology is contained in Section 2.10.

2.7 UK Specific RVSM Exemptions

2.7.1 This section details the procedure for operators of civil registered aircraft to obtain an RVSM Exemption for the flights listed in paragraph 2.7.2 below. It also details Flight Planning and ATC procedures for civil registered aircraft which have obtained an RVSM Exemption to carry out specific flights in UK RVSM airspace under the control of a military or civil ATS agency as appropriate. The Exemption procedures detailed are UK specific and applicable for flights where RVSM monitoring is required, flights for test purposes and flights in support of MOD requirements. **These procedures are not applicable for EUR RVSM in general or applicable over other HMUs in Europe.**

2.7.2 **Categories of Civil Registered Aircraft Eligible for RVSM Exemption:** The following categories of flights by civil registered Non-RVSM Approved aircraft may be granted RVSM Exemptions to enter UK RVSM airspace:

a) Flights for the purpose of overflying the Strumble HMU for RVSM monitoring;
b) Aircraft using GMU equipment to complete a RVSM monitoring flight;

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

c) Flight testing, whether for the purpose of prototype testing or in association with the approval of a modification to an existing type designed aircraft (eg Trailing Cone Flights for the purpose of gaining RVSM approval);
d) Air Tests (eg post maintenance);
e) Special flights on behalf of the MOD;
f) Calibration flights (eg Radio Navigation Aids).

2.7.3 Aircraft conducting an Airworthiness Flight Test for the CAA are considered RVSM exempt and no application is required. This includes CAA Continued Airworthiness Flight Tests and those flight tests associated with an initial issue of a Certificate of Airworthiness for a series of aircraft. However, operators of aircraft not holding an RVSM approval should take note of the Flight Planning requirements provided in paragraph 2.7.5.3 Note 1, and in all cases prior notification of such a flight test should be made with the appropriate ATC agency. Note: Definition of 'State' aircraft - For the purpose of EUR RVSM, only aircraft used in military, customs or police services shall qualify as 'State' aircraft and are eligible to apply 'M' in ITEM 8 of the Flight Plan.

Note: *Definition of 'State' aircraft - For the purpose of EUR RVSM, only aircraft used in military, customs or police services shall qualify as 'State' aircraft and are eligible to apply 'M' in ITEM 8 of the Flight Plan.*

2.7.4 **RVSM Exemptions - Application Procedure**

2.7.4.1 Manager Airspace Regulation, Safety and Airspace Regulation Group (SARG) is the UK Authority for issuing RVSM Exemptions to aircraft operators for flights conducting tasks detailed in paragraph 2.7.2. An application for an RVSM Exemption will be treated on an individual basis. RVSM Exemptions will only be issued for a specific period in respect of a specific aircraft, or a series of aircraft (eg in support of MOD tasks or aircraft undergoing a CAA Airworthiness Flight Check). Operators of civil registered aircraft requiring RVSM Exemptions should apply to Head of Airspace using a proforma that can be obtained from SARG Tel: 020-7453 6553. All applications (either by E-Mail, Fax or post) are to be sent to:

Post: Manager Airspace Regulation
1E,
Aviation House,
Gatwick Airport South,
West Sussex,
RH6 0YR
Phone: 020-7453 6553
Email: airspaceregulation@caa.co.uk

2.7.4.2 RVSM Exemptions will be returned to the operator by the quickest means and details copied to the relevant ACCs. It is essential that the Serial No. of the RVSM Exemption is quoted in the Remarks of the Flight Plan, otherwise entry to UK RVSM airspace will be refused.

2.7.5 **Completion of Flight Plans - Additional Flight Planning Requirements**

2.7.5.1 Normal flight planning requirements for RVSM operation are contained in Chapter 10 of the UK Flight Planning Guide (CAP 694). Flights operating under an exemption granted in accordance with the guidance above shall conform to the following additional flight planning requirements.

2.7.5.2 **For all Flights, in Item 15** file a maximum level of FL 280 to the point where the flight wishes to enter RVSM airspace (otherwise if GAT the FPL will be rejected by DNM). Do not enter RFL details at FL 290 or above anywhere in item 15. A verbal request to ATC for flight above FL 280 will ensure the FPL is not rejected by DNM.

2.7.5.3 For all flights, in Item 18 include the RVSM Status and Exemption Serial No. in the Remarks, ie: **'STS/UK RVSM EXEMPT.....Serial No.'**

Note 1: *Operators of Non-RVSM Approved aircraft* ***are not to enter 'W'*** *in item 10 even with this specific exemption.*

Note 2: *Having an RVSM Exemption does not confer any right to enter RVSM airspace as GAT unless specifically agreed by the appropriate ATC agency on the day. Any such penetration of RVSM airspace must be subject to the prevailing traffic conditions and controller workload.*

2.7.5.4 **Flight Testing or CAA Airworthiness Test Flights by Non-RVSM Approved Aircraft - In Item 15,** enter route details within the area in which the flight intends to operate, eg OAT, VLN, SMG, VLN and then the return joining point for the ATS route structure to destination at a level not above FL 280. If aerodrome of departure is outside the ATS route structure insert the appropriate routeing; if the final intention is to rejoin the ATS route structure, file to rejoin at the appropriate point not above FL 280. **In Item 18,** insert RVSM Status and Exemption Serial No. (if applicable) and 'RMK/Flight Testing' or 'RMK/CAA Airworthiness Flight Test' as appropriate with requested flight level in RVSM airspace.

2.7.5.5 **Overflight of the Strumble HMU by Non-RVSM Approved Aircraft** - Aircraft requiring RVSM monitoring over the Strumble HMU should flight plan via Strumble in accordance with standard routeing. If flying along the ATS route structure specifically to STU only, after STU insert the required routeing to destination. For flights intending to receive a service from London Radar (Military Control) for the purpose of conducting Air Tests or CAA Airworthiness Test Flights prior to overflying the Strumble HMU, or intending to fly OAT (off route) to facilitate flight over the Strumble HMU without flying along the ATS route structure, the appropriate routeing should be filed. **In Item 18 insert** 'RMK/HMU FLT' (this information will be presented to controllers on active flight progress strips).

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

2.7.6 **Notification to Air Traffic Control**

2.7.6.1 Pilots must pre-arrange handling in RVSM airspace by contacting the appropriate ACC Supervisor or Military Supervisor as appropriate on one of the following numbers:

- LACC Civil Supervisor. Tel: 01489-612420;
- Swanwick Military East Supervisor. Tel: 01489-612408;
- Swanwick Military West Supervisor. Tel: 01489-612417;
- Swanwick Military North Supervisor. Tel: 01489-612943;
- ScACC Civil Supervisor. Tel: 01292-692763.

2.7.6.2 In addition to filing the appropriate flight plan in order to ensure correct handling, pilots should also pass the relevant flight profile details to the appropriate ATC Supervisor.

2.7.6.3 Operators requiring flight over the Strumble HMU should avoid peak periods as ATC need to provide 2000 FT separation between RVSM approved and Non-RVSM approved aircraft above FL 290. If in doubt suitable timings can be arranged with the LACC Civil ATC Supervisor.

2.7.7 **Air Traffic Control (ATC) Procedures for all Flights**

2.7.7.1 When Non-RVSM aircraft are ready to enter RVSM airspace, the appropriate clearance is to be obtained from ATC. Note that, due to the need to provide 2000 FT separation, controllers need to co-ordinate the flight with other RVSM approved aircraft. These flights therefore create extra workload and a slight delay in receiving such clearances should be anticipated. It would therefore be helpful if pilots can provide as much notice as possible prior to requesting flight levels above FL 280.

2.7.7.2 Pilots must comply with any requirements stated in the RVSM Exemption unless otherwise instructed by ATC. Pilots are also reminded to include their Non-RVSM status (callsign: NEGATIVE RVSM) in the initial call on any frequency within RVSM airspace and subsequent frequency changes, when requesting level changes pertaining to flight levels in RVSM airspace and in all read backs to flight level clearances pertaining to flight levels in RVSM airspace.

2.7.8 **Air Traffic Control (ATC) Procedures for Strumble HMU Flights**

2.7.8.1 Pilots should request a suitable flight level above FL 280 from ATC well before reaching the Strumble HMU. For the best chance of successful monitoring, aircraft should fly straight and level at an ATC assigned level between FL 290 and FL 410 throughout the area depicted on the chart at Annex B. Mode A SSR code should not be changed within that area. A single pass over the HMU is sufficient for certification purposes, though some operators may request a second. Pilots of aircraft are to comply with ATC instructions at all times.

2.7.8.2 Overflight of the HMU may be delayed until the flight can be integrated with other traffic and 2000 FT separation applied. ATC will therefore issue instructions as appropriate. As a reminder to ATC that the aircraft is attempting height monitoring, the crew is to transmit 'for Strumble HMU flight' on first contact with London Control or London Radar as appropriate.

2.8 Height Monitoring Requirements

2.8.1 There is an ongoing requirement for height monitoring within the EUR and NAT RVSM airspace in order to monitor safety levels of RVSM operations. Aircraft operators are therefore required to continue participating in ongoing monitoring activities and this may involve the re-monitoring of aircraft that have previously gone through the process. Non-participation can result in the withdrawal of RVSM approval. This monitoring requirement is, in its current form, applicable for EUR RVSM operations specifically to fulfil the requirements for ongoing EUR RVSM Safety Assessments. However, activities are under way to harmonise the detailed monitoring requirements globally. **The CAA is obliged, by ICAO, to keep a database of all UK registered RVSM approved aircraft. Therefore, operators are to inform the CAA (RVSM Approvals) both when they add aircraft to their fleet and of any aircraft they intend to remove from their fleet of RVSM approved aircraft. The CAA will pass this information to the appropriate Regional Monitoring Agency (RMA). This is in addition to any requirements to comply with any Eurocontrol notification procedures.**

2.8.2 In order to have sufficient confidence in safety assessment results sufficient monitoring data is required. Due to the potential changes to altimetry performance over time, there is a limitation on the age of data that can be used for the assessments. Therefore there is a need to obtain new data and this may result in the re-monitoring of certain aircraft types and airframes. Data will be obtained through monitoring by the existing ground based Height Monitoring Units (HMUs). Since much of the data is obtained automatically, no specific action is required from operators unless they are approached by the RMA. Where such an approach is made, the operator is required to cooperate by arranging a special flight to over-fly an HMU. Lack of co-operation by an operator would be reported to the state issuing the approval and could result in the withdrawal of RVSM approval for the aircraft and/or operator in question.

2.8.3 For aircraft operator specific information, such as how many of his/her aircraft of a particular type need to be monitored and within what time frame, the operator may contact the RMA direct.

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

2.8.4 **Organisation of Monitoring Activities**

2.8.4.1 On behalf of ICAO the EUROCONTROL Agency acts as the RMA. The information which will be obtained through the monitoring programme on aircraft compliance status and measured height keeping performance will be combined with the information available from monitoring agencies in other regions.

2.8.4.2 The RMA will support operators and approval authorities on any issue related to RVSM approval and monitoring. The RMA will require information on the aircraft which are intended to operate in EUR RVSM airspace, and which will, therefore, need to be monitored on a periodic basis as part of the continuing safety assessment. To this end the RMA will also be in contact with State approval authorities. The RMA is based at the EUROCONTROL headquarters in Brussels, Belgium.

2.8.4.3 The RMA will ensure the continuous operation of the monitoring systems and will manage the measured height keeping performance data. The RMA will identify any height deviations that are outside the specifications of the ICAO RVSM performance requirements, and will follow-up as required.

2.8.5 **Global Long Term Monitoring Requirements**

2.8.5.1 ICAO has identified the need for ongoing monitoring to ensure the safety objectives continue to be met and to ensure the continued maintenance of height keeping performance of approved aircraft. This longer term monitoring is seen to be essential for the ongoing safety of RVSM operations.

2.8.5.2 The detailed global long term monitoring requirements are continuously evolving and the procedures in place in the EUR RVSM region are designed to conform with these.

2.9 Wake Vortex Issues

2.9.1 The purpose of this section is to present information in respect of wake vortex and to notify pilots and controllers of the relevant procedures in the event of a wake vortex encounter with specific regard to EUR RVSM operations.

2.9.2 The Eurocontrol scheme is recording those encounters that take place in RVSM airspace and does not in any way replace the UK reporting scheme which records all wake vortex encounters in UK airspace (including those at RVSM levels).

2.9.3 **Wake Vortices in EUR RVSM Airspace:** Prior to the implementation of RVSM in the EUR region an independent study concluded that the 'probability of hazardous encounters with wake vortices are not expected to increase but that nuisance encounters would increase'. Since August 2000 EUROCONTROL has been collating wake vortex encounters in the European airspace at FL 245 and above. These encounters have been subject to further independent analysis which has confirmed the findings of the above mentioned study. It is vital, however, that pilots continue to provide reports of wake vortex encounters in RVSM airspace. Any pilot who encounters a wake turbulence incident when flying in EUR RVSM airspace or within an adjacent RVSM transition area should ensure that a detailed report is provided to EUROCONTROL and State Regulation Authorities.

2.9.4 **Wake Vortices Encounters:** ICAO Document 7030 'Regional Supplementary Procedures' recognises wake turbulence as a factor in European and North Atlantic RVSM operations. In the North Atlantic, due to the special nature of the airspace and frequent poor communications, procedures have been developed which allow action by flight crews independent of ATC involvement. These procedures are **not** applicable to EUR RVSM airspace, where direct pilot/controller communication exists together with sufficient radar coverage to enable ATC to manage required flight deviations. In addition the vertical separation between aircraft can be increased tactically should this be necessary.

2.9.5 **Pilot Actions:**

2.9.5.1 When an aircraft is operating in the EUR RVSM airspace and encounters severe turbulence due to weather or wake vortex, and the Pilot-in-Command believes the vertical navigation performance requirements for EUR RVSM airspace cannot be maintained, the pilot shall:

a) inform ATC as soon as possible **('UNABLE RVSM DUE TURBULENCE') ;**
b) obtain a revised ATC clearance prior to initiating any deviation from cleared route or flight level;
c) where such revised ATC clearance could not be obtained prior to such a deviation, obtain a revised clearance as soon as possible thereafter.

2.9.5.2 These procedures should not be interpreted in any way that prejudices the final authority and responsibility of the Pilot-in-Command for the safe operation of the aircraft.

2.9.6 **Controller Actions:**

2.9.6.1 The ATC controller:

a) shall establish either an appropriate horizontal separation or an increased vertical separation of 600 M (2000 FT;
b) shall, to the extent possible, accommodate the pilot's request for flight level and/or route changes and pass traffic information as required;
c) confirm that the pilot is ready to resume RVSM operations **('REPORT READY TO RESUME RVSM')**.

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

2.10 Controller/Pilot RVSM Phraseology

Para	Message	Phraseology
1.	ATC ascertain the RVSM approval status of a flight	(callsign) **CONFIRM RVSM APPROVED**
2.	Pilot indication of non-RVSM approval Status: To be stated: a) in the initial call on any frequency within the RVSM airspace (ATC shall provide a readback with the same phrase); and b) in all requests for flight level changes pertaining to flight levels within the RVSM airspace; c) in all readbacks to flight level clearances pertaining to flight levels within the RVSM airspace. As well, pilots of aircraft, other than State aircraft, shall respond to level clearances involving the vertical transit through either FL 290 or FL 410 with this phrase. See examples shown below.	**NEGATIVE RVSM***
3.	Pilot indication of RVSM approval status:	**AFFIRM RVSM***
4.	State aircraft, non-RVSM approved, shall Indicate their status as being that of a State aircraft, in conjunction with a negative response to the RTF with the phrase:	**NEGATIVE RVSM STATE AIRCRAFT***
5.	ATC denial of clearance into the RVSM airspace:	(callsign) **UNABLE CLEARANCE INTO RVSM AIRSPACE, MAINTAIN** (or **DESCEND TO,** or **CLIMB TO) FLIGHT LEVEL** (number)
6.	For the case of an individual aircraft reporting severe turbulence or other severe weather related phenomenon, the pilot phraseology shall be:	**UNABLE RVSM DUE TURBULENCE***
7.	The phraseology required of a pilot to communicate those circumstances which would cause an aircraft's equipment to degrade to below altimetry MASPS compliance levels shall be: The phrase is to be used to convey both the initial indication of the non-altimetry MASPS compliance and, henceforth, on initial contact on all frequencies within the lateral limits of the RVSM airspace until such time as the problem ceases to exist.	**UNABLE RVSM DUE EQUIPMENT***
8.	The pilot shall communicate his/her ability to resume operation within the RVSM airspace after an equipment related contingency, or his/her ability to resume RVSM operations after a weather related contingency with the phrase:	**READY TO RESUME RVSM***
9.	To solicit this information ATC shall use the phrase:	(callsign) **REPORT ABLE TO RESUME RVSM**
Note: ** indicates a pilot transmission*		

Example 1: A non-RVSM approved aircraft, maintaining FL 260, subsequently requests a climb to FL 320

Pilot RTF:	(callsign) REQUEST FL 320, NEGATIVE RVSM
Controller RTF	(callsign) CLIMB FL 320
Pilot RTF	CLIMB FL 320, NEGATIVE RVSM (callsign)

Example 2: A non-RVSM approved aircraft, maintaining FL 260, subsequently requests a climb to FL 430.

Pilot RTF:	(callsign) REQUEST FL 430, NEGATIVE RVSM
Controller RTF	(callsign) CLIMB FL 430
Pilot RTF	CLIMB FL 430, NEGATIVE RVSM (callsign)

Example 3: A non-RVSM approved aircraft, maintaining FL 360, subsequently requests a climb to FL 380.

Pilot RTF:	(callsign) REQUEST FL 380, NEGATIVE RVSM
Controller RTF	(callsign) CLIMB FL 380
Pilot RTF	CLIMB FL 380, NEGATIVE RVSM (callsign)

Example 4: A non-RVSM approved civil aircraft, maintaining FL 280, subsequently requests a climb to FL 320.

Pilot RTF:	(callsign) REQUEST FL 320, NEGATIVE RVSM
Controller RTF	(callsign) UNABLE CLEARANCE INTO RVSM AIRSPACE, MAINTAIN FL 280

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

Controller-controller RVSM Phraseology		
Para	**Message**	**Phraseology**
1.	To verbally supplement an automated estimate message exchange which does not automatically transfer Item 18 information	**NEGATIVE RVSM or** **NEGATIVE RVSM STATE AIRCRAFT (as applicable)**
2.	To verbally supplement estimate messages of non-RVSM approved aircraft:	**NEGATIVE RVSM or** **NEGATIVE RVSM STATE AIRCRAFT (as applicable)**
3.	To communicate the cause of a single aircraft contingency:	**UNABLE RVSM DUE TURBULENCE (or EQUIPMENT, as applicable)**

3 Area Navigation - RNAV

3.1 Introduction

3.1.1 RNAV is a method of navigation which permits aircraft operation on any desired flight path within the coverage of referenced navigation aids or within the limits of the capability of self contained navigation systems, or a combination of the two. The introduction of RNAV has allowed greater flexibility in airspace design and potential user advantages such as direct tracks, fuel savings etc.

3.1.2 All aircraft that wish to fly in RNAV designated airspace are to be equipped with the appropriate navigation equipment as specified in EASA AMC 20-4 or the AMC-20 series document appropriate to the particular RNAV specification. Specific requirements for equipment to be carried by UK registered aircraft are contained in the table in GEN 1.5, paragraph 5.2.1.

3.2 RNAV 5 / Basic Area Navigation (B-RNAV) (RNAV 5 is PBN terminology for B-RNAV)

3.2.1 **General.** All aircraft, other than State Aircraft*, operating in en-route controlled airspace** within the London and Scottish FIRs/ UIRs shall be equipped with, as a minimum, RNAV equipment meeting RNAV 5 in accordance with the requirements set out in ICAO Doc 7030 Regional Supplementary Procedures (EUR).

Note 1: ** State aircraft are defined by ICAO Convention Article 3 as aircraft used in military, customs and police services.*

Note 2: *** Currently the mandate for the carriage of B-RNAV equipment applies only to the en-route portion of the UK ATS route structure and does not apply to designated feeder routes (SIDs and STARs) in/out of UK TMAs unless otherwise specified. However, consideration is being given to extend the mandate for the carriage of B-RNAV equipment for TMA and feeder route operations.*

3.2.2 **Flight Planning.** Operators of aircraft fitted with RNAV equipment having a navigation accuracy meeting RNAV 5 shall insert the designator letter 'R' in Item 10 of the Flight plan.

3.2.3 **Certification and Approval Requirements.** To be eligible for B-RNAV operations on-board navigation equipment will be required to provide en-route lateral track keeping accuracy of +/- 5 NM or better for 95% of the flight time (RNAV 5). For UK operators and UK registered aircraft the only approval required under the ANO is that B-RNAV equipment and its installation in the aircraft conform to the provisions outlined in the UK Air Navigation Order. No separate operational approvals are required.

Note: *Guidance material concerning navigation requirements associated with RNAV 5 (B-RNAV) operations is contained in EASA AMC 20-4, Airworthiness Approval And Operational Criteria For The Use Of Navigation Systems In European Airspace Designated For Basic RNAV Operations.*

3.2.4 **UK Exemption Policy.** There are no general exemptions issued from the requirement to carry RNAV equipment in the relevant airspace. Aircraft operators seeking to carry out a flight for the purpose of safety of life, maintenance or delivery should, in the first instance, contact the Safety and Airspace Regulation Group (SARG), Manager Airspace Regulation using the details below:

Post: Manager Airspace Regulation
Aviation House,
Gatwick Airport South,
West Sussex,
RH6 0YR,
Phone: 01293-573203
Email: airspaceregulation@caa.co.uk

3.2.5 **Contingency Procedures.** ICAO Doc 7030 Regional Supplementary Procedures detail the procedures for RNAV operations, including contingency procedures. These contingency procedures are summarised below:

a) Failure of RNAV Capability Whilst Airborne - If, as a result of failure of the RNAV system or degradation of it below RNP 5, an aircraft is unable either to enter mandated RNAV airspace or continue operations in accordance with the existing ATC clearance, a revised clearance shall, wherever possible be obtained by the pilot. Subsequent ATC action in respect of that

aircraft will be dependent upon the nature of the reported failure and the overall traffic situation. Continued operation with the current ATC clearance may be possible in many situations. When this cannot be achieved, a revised clearance may be required to revert to navigation using conventional aids. ATC may also provide the aircraft with radar vectors until the aircraft is capable of resuming its own navigation.

b) Failure of RNAV Capability before Departure - In case of failure or degradation of the RNAV system which is detected before departure from an aerodrome where it is not practicable to effect a repair, the aircraft concerned should be permitted to proceed to the nearest suitable aerodrome where repair can be made. When granting clearance to such aircraft, ATC should take unto account the existing or anticipated traffic situation and may have to modify the time of departure, flight level or route of the intended flight. Subsequent adjustments may become necessary during the course of the flight.

c) Flight Plan Procedures - Operators of such aircraft, where a failure or degradation is detected before departure, shall not insert the designators 'S' or 'R' in Item 10 of the Flight Plan. Since such flights require special handling by ATC, Item 18 of the Flight Plan shall contain STS/RNAVINOP. Subsequently, for a flight for which a flight plan has been submitted, a new plan should be filed and the old plan cancelled. For a flight operating on a Repetitive Flight Plan (RPL), the RPL should be cancelled and a new flight plan filed.

d) Phraseology - Whenever initial contact on an ATC frequency is established the pilot shall include the phrase 'UNABLE RNAV DUE EQUIPMENT' immediately after the aircraft callsign.

3.2.6 **UK ATS Routes.** Historically ATS routes have been delineated by ground-based navigation aids (today predominately VORs). Following the introduction of RNAV 5 to all UK en-route airspace, WGS 84 geographical points, which may not be coincident with a VOR, will define the ATS routes in the UK. This has the advantage that if a VOR is moved or withdrawn the alignment of the route can remain unchanged. All UK ATS routes are now RNAV routes at all flight levels. These routes are annotated accordingly in the En-Route section of the AIP.

3.2.7 **Responsibility of Operators.** The navigation system accuracy achievable by a RNAV system is dependent upon both the airspace infrastructure and the airborne equipment. It is the responsibility of the operator to ensure that the required system accuracy can be achieved when planning to operate in designated RNAV 5 airspace. Where position information derived from GPS is the only input to the RNAV system it is incumbent upon operators to confirm that the necessary coverage from GPS is provided for the intended flight.

3.3 Precision Area Navigation (P-RNAV)

3.3.1 AIP text to be developed.

4 RNP Instrument Approach Procedures

4.1 RNP Approach Procedures were previously published in AIP Supplement S11/2008. The supporting text and charts for those aerodrome procedures approved by the CAA have now been introduced into the AIP with effect from 31 July 2008 at which date, Supplement S11/2008 is withdrawn. The CAA approval for the use of RNP Approach Procedures in the UK is detailed below and includes guidance on the calculation of aerodrome operating minima supporting the introduction of APV Baro VNAV procedures.

4.2 RNP 2-Dimensional Non-Precision Approach (NPA) procedures and 3-Dimensional Barometric VNAV (APV Baro VNAV) Approach procedures are only authorised to suitable instrument runways, at appropriately equipped licensed aerodromes with Air Traffic Control (ATC) services as detailed below. However, exceptionally, the CAA may approve a procedure to a non-instrument runway, subject to a case by case assessment.

4.3 Procedures and charts for approved RNP Approaches are included in the appropriate AIP AD Section 8.

4.4 **General**

4.4.1 Notified RNP Instrument Approach Procedures will be available for use by all Instrument and IMC Rated pilots of UK and foreign registered aircraft. Aircraft must have suitably approved equipment.

4.5 **Aircraft Navigation System**

4.5.1 The aircraft navigation system shall include at least one GPS receiver. The navigation system must be approved to conduct :

a) RNP Approaches or;
b) Approaches with RNP 0.3 or RNP-RNAV 0.3.

Note: *The terminology used in Aircraft Flight Manuals may vary between aircraft types.*

4.5.2 All approved installations must have the appropriate approval for RNP Approach operations entered in the Aircraft Flight Manual (AFM), Pilot Operating Handbook (POH) or equivalent.

The navigation system can be as a minimum:

a) A system only based on GNSS having at least one GPS receiver qualified to TSO-C129a/ETSO-C129a Class A1 or TSO-C146()/ETSO-C146() Class Gamma and operational class 1, 2 or 3 or;
b) a multi-sensor system (eg, Flight Management System) having at least one GPS receiver qualified to TSO-C129()/ETSO-C129() Class B1, C1, B3 or C3 or TSO-C145()/ETSO-C145() class 1, 2 or 3 (with equivalent integration guidance).

Note: *() refers to any version of the equipment Technical Standard Order is acceptable eg. TSO-C129 or TSO-C129a.*

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

4.5.3 Any operating limitations mentioned in the AFM, concerning use of the navigation system on RNP Approach procedures must be observed.

4.5.4 Pilots must be able to determine that the on-board aeronautical database and software version in use for the navigation system is valid for the time of flight. The entire approach procedure must be loadable, by name, from the navigation database.

Manually entered and overlay procedures must not be used as the primary reference on any approach, at any time.

4.6 **Pilot Training and Licensing**

4.6.1 UK AOC holder's approval to fly these approaches will be administered under current CAA oversight arrangements. Flight Operations Division Communication 04/2008 directs the attention of AOC holders to guidance material for RNAV operations, including Instrument Approach Procedures. The document may be found on the CAA website at www.caa.co.uk/fodcom0408.

4.6.2 CAP 773 contains technical information on the function of GPS together with equipment requirements, human factors considerations, training and practical guidance for the use of GPS during RNP Approach operations. It also contains guidance for instructors, Flight Training Organisations (FTOs) and Registered Facilities on appropriate training for RNP Approaches. CAP 773 is available on the CAA website and then by following the links Publications; General Aviation.

4.6.3 A CAA Personnel Licensing Department policy statement entitled, 'Flight Training and Testing for RNAV (GNSS) Non-Precision Instrument Approaches' is available on the CAA website and then by following the links Safety Regulation; Personnel Licensing; What's New?

4.6.4 CAA Safety Sense Leaflet No.25 (Use of GPS) has been updated to include safety related guidance and information on the use of GPS in IMC and on Instrument Approaches. The leaflet may be found on the CAA website at www.caa.co.uk/safetysense.

4.7 **Aerodrome Licensing**

4.7.1 The CAA Safety Regulation Group (SRG) Aerodrome Standards Department has issued a Notice to Aerodrome Licence Holders (NOTAL) 4/2007 specifying the responsibilities and actions required of licence holders intending to introduce RNP approach operations. The NOTAL may be found on the CAA website and then by following the links, Publications; Aerodrome; NOTAL.

4.8 **Aerodrome Procedures**

4.8.1 Individual aerodromes wishing to introduce RNP Instrument Approach Procedures are to request the design of such procedures by completing the following form:

http://www.caa.co.uk/docs/7/dap_ta_ifprequestform.pdf

The request is to be made to the Head of Airspace Regulation at the Directorate of Airspace Policy (DAP).

4.8.2 To enable a design to be initiated, aerodromes must have an up-to-date obstacle survey that complies with CAP 232 Aerodrome Survey Information requirements. Where instrument flight procedures do not currently exist, or new procedures introduce markedly different flight profiles, aerodrome operators should be aware of the requirements of the Airspace Change Process published in CAP 725 Airspace Change Process Guidance Document. Both CAP 232 and 725 are available via the CAA website.

4.9 **Aerodrome Operating Minima**

4.9.1 See AD 1.1 subsection 4 for information on Aerodrome Operating Minima.

4.10 **ATS Providers - Information**

4.10.1 The CAA SRG Air Traffic Standards Division has issued an Air Traffic Services Information Notice (ATSIN) Number 108 outlining the responsibilities and actions required of ATS providers at aerodromes intending to introduce RNP Instrument Approach Procedures. The ATSIN is available on the CAA website and then by following the links, Publications; Air Traffic Services; ATS Information Notices.

4.11 **Pre-Flight Planning**

4.11.1 Aircraft operators shall ensure that the appropriate coverage from GNSS is provided for the intended flight. Receiver Autonomous Integrity Monitor (RAIM) availability prediction should take into account the GPS constellation predicted for the duration of the flight, NOTAM and avionics architecture eg, Baro aiding input. Software tools available on the Internet can be used for this purpose e.g. AUGUR or through the aircraft navigation system RAIM prediction capability, if provided. In the event of a predicted, continuous loss of appropriate level of fault detection of more than five (5) minutes for any part of the RNP Approach Procedure, the flight planning should be revised eg, delaying the departure or planning a different approach procedure.

Note: *AUGUR has been developed by EUROCONTROL and is available at http://augur.ecacnav.com/*

4.11.2 RAIM availability prediction software does not guarantee the service; they are tools to assess the expected capability to meet the required navigation performance. Because of failure of some GNSS elements, operators must be aware that RAIM, or GPS navigation altogether, may be lost while airborne which may require reversion to an alternative means of navigation. Therefore,

pilots should assess their capability to navigate (potentially to an alternate destination) in case of failure of GPS navigation.

4.12 **Method of Operation**

4.12.1 Standard Air Traffic Control procedures for sequencing and separating aircraft will apply at all times during RNP approaches.

4.12.2 Pilots shall request clearance to fly the procedure. Clearance to fly the procedure permits the pilot to fly in accordance with the published procedure, following the descent profile.

4.12.3 For APV Baro VNAV procedures, in order to minimise the potential for mis-setting of barometric reference Air Traffic Controllers must confirm QNH with flight crews prior to commencement of the approach.

4.12.4 The approach commences at the Initial Approach Fix (IAF).

Note: *At aerodromes where aircraft are vectored to the Intermediate Fix (IF), eg. London Gatwick and London Heathrow, the RNP Instrument Approach Procedure will commence at the IF.*

4.12.5 **RTF Phraseology:** Pilots should request clearance to fly the procedure using the phraseology:

'(Aircraft c/s), request RNP approach, via (Initial Approach Fix Designator), runway xx'.

Where traffic conditions permit, air traffic controllers shall clear the pilot to follow the procedure using the following phraseology:

'(Aircraft c/s), cleared RNP approach, runway xx, (report at (Initial Approach Fix designator))'.

For traffic sequencing and to aid situational awareness, air traffic controllers may request the pilot to report when established on final approach track or to report at any other relevant point in the procedure. For example:

'(Aircraft c/s), report established on final approach track';

'(Aircraft c/s), report 2 miles from final approach fix'.

Air Traffic Controllers will request that the pilot reports at the final approach fix, using the phraseology:

'(Aircraft c/s), report final approach fix'.

When Air Traffic Control is aware of problems with the GNSS system, the following phraseology should be used:

'(Aircraft c/s), GNSS reported unreliable (or GNSS may not be available (due to interference))';

In the vicinity of (location) (radius) (between (levels)).

or:

In the area of (description) (between (levels)):

'(Aircraft c/s), GNSS unavailable for (specify operation) (from (time) to (time) (or until further notice))'.

Following a RAIM indication, pilots should inform the controller of the event and subsequent intentions.

'(Aircraft c/s), GNSS unavailable (due to (reason eg Loss of RAIM or RAIM alert)) (intentions)';

'(Aircraft c/s), Loss of RAIM or RAIM alert (intentions)'.

4.12.6 After reaching the final approach fix, the pilot will continue to fly the procedure towards the next waypoint, normally the runway threshold. At the appropriate time, the pilot will either continue with the air traffic clearance received or will execute the Missed Approach Procedure (MAP).

4.12.7 **Missed Approach Procedure:** To expedite the introduction of RNP Approaches, the Missed Approach Procedures will be conventional, using ground-based navigational aids. These will be reviewed in due course and, after detailed discussions with the aerodromes to determine optimum hold locations and required tracks, will be converted to full RNP MAPs. Environmental consultation will need to be considered for any new tracks. Until then, all MAPs will be straight ahead to a designated altitude with track guidance. At the designated altitude, the pilot should revert to conventional navigation and route to the holding beacon, ie. by making a turn to the beacon or a turn with continued climb to holding altitude at the beacon.

4.12.8 **Loss of Communications:** In the event of communications failure, the pilot should continue with the RNP procedure in accordance with published loss of communication procedures.

4.13 **Point of Contact**

4.13.1 Pilots, ATS providers or aerodrome operators seeking further information on the establishment of RNP Instrument Approach Procedures should contact:

Post: Manager Airspace Regulation, CAA, 1 NE Aviation House, Beehive Ring Road, Crawley, West Sussex, RH6 0YR
Email: airspace@caa.co.uk

The CAA website may be found at: http://www.caa.co.uk

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

5 Carriage of Radio and Radio Navigation Equipment

5.1 Carriage of Communications Equipment

5.1.1 The requirements for the carriage of radio equipment are contained in the Air Operations Regulation (EU) No 965/2012 and the Air Navigation Order (2016). In the case of the Shanwick Oceanic Control Area, additional requirements are contained in the ANO and the Air Navigation (General) Regulations 2006, as amended.

5.1.2 When required by the applicable airspace requirements, type of aircraft and operations being flown, aircraft and helicopters must be equipped with VHF 8.33 kHz channel spacing radio communication equipment that is capable of conducting two-way communications with aeronautical stations on published channels, as follows:

Applicability	VFR	IFR (or CAT VFR with no visual landmarks)
CS-25 aircraft	2 independent radios	2 independent radios
CS-23 Class I aircraft	1 radio	1 radio
CS-29 / CS-27 / Other CS-23 aircraft	1 radio	2 independent radios
Other aircraft operations in controlled airspace class A (IFR only), B, C, D or RMZ	1 radio	1 radio
Other aircraft operations in controlled airspace Class E	No radio required	1 radio
Other cases	No radio required	

Note: *CS-23 Class 1 aircraft is a Single Reciprocating Engine aircraft with a MCTOW of less than 2721 KG.*

5.1.3 **Operation in the Shanwick Oceanic Control Area**

All aircraft operating within the Shanwick Oceanic Control Area must be equipped with at least one long range communication system, such as HF RTF.

5.1.4 **FM Immunity**

ICAO requirements for receiver FM immunity from the adjacent sound broadcast band are defined in ICAO Annex 10 Volume III Part 2.3.3. (VHF communications). Radio equipment not meeting the immunity standard shall not be used to comply with carriage requirements. UK-registered aircraft exceeding 5700 KG must also have appropriate placards on any non-immune communications set.

5.1.5 **Exemptions for 8.33 kHz Radio Equipment**

Provision for State aircraft exempted from the carriage of 8.33 kHz channel spacing communications equipment will be made on a tactical basis through the provision of an alternative UHF/25 kHz VHF channel. Exemptions from mandatory carriage of VHF 8.33 kHz aircraft radio equipment and procedures to be followed by pilots of non-8.33 kHz equipped State aircraft are described in ENR 1.8.

5.1.6 **Radio Mandatory Zones (RMZ)**

For the purposes of SERA.6005, the following airspace is notified as a 'RMZ':

- Hawarden RMZ (permanent);
- Ekofisk RMZ;
- Land's End RMZ.

→

5.1.7 En-route RMZs are detailed at ENR 2.2, subsection 5, and aerodrome specific RMZs are detailed in the Aerodrome Index – Specific.

5.1.8 Temporary RMZs put in place to meet urgent operational requirements may not be incorporated in the AIP due to their limited duration. They will be notified through appropriate means including NOTAM and AIC.

5.2 Carriage of Navigation Equipment

5.2.1 Aircraft must be equipped with sufficient navigation equipment to ensure that, in the event of the failure of one item of equipment at any stage of the flight, the remaining equipment allows safe navigation in accordance with the flight plan.

5.2.2 Aircraft operating IFR or over routes with no visual landmarks as well as UK-registered multi-engined aircraft when flying for the purpose of public transport under VFR must be equipped with navigation equipment necessary to fly in accordance with the ATS

flight plan, if applicable; and the applicable notified airspace requirements.

5.2.3 An acceptable means of compliance is:

- One VHF omnidirectional radio range (VOR) receiving system, one DME and one ADF system, except that an ADF system need not be installed provided that the use of ADF is not required in any phase of the planned flight;
- One ILS where ILS is required for approach navigation purposes;
- One marker beacon receiving system where a marker beacon is required for approach navigation purposes;
- Area navigation equipment when area navigation is required for the route being flown;
- An additional DME system on any route, or part thereof, where navigation is based only on DME signals;
- An additional VOR receiving system on any route, or part thereof, where navigation is based only on VOR signals; and
- An additional ADF system on any route, or part thereof, where navigation is based only on NDB signals.

5.2.4 Aircraft operators may operate without an additional VOR receiving system or additional ADF system as above provided they are equipped with alternative equipment that allows safe navigation for the intended route.

5.2.5 **Exemptions for Navigation Equipment**

State aircraft are exempt from the requirement for carriage of RNAV equipment. No other general exemption from these requirements will be granted, but, in very special circumstances, relaxation of the requirements, for a single flight, may be approved by the appropriate ATC Unit.

5.2.6 **Navigation equipment unserviceable**

Operators should consult their minimum equipment list and Master Minimum Equipment Lists, as applicable. Otherwise, where not more than one item of equipment is unserviceable when the aircraft is about to begin a flight, may nevertheless take off on that flight if:

1. It is not reasonably practicable for the repair or replacement of that item to be carried out before the beginning of the flight;
2. The aircraft has not made more than one flight since the item was last serviceable; and
3. The commander of the aircraft is satisfied that the flight can be made safely and in accordance with any relevant requirements of the appropriate air traffic control unit, taking into account the latest information available as to the route and aerodrome to be used (including any planned diversion) and the weather conditions likely to be encountered.

5.2.7 **FM Immunity**

All required radio navigation equipment must be FM immune. If the aircraft is UK-registered then any non-immune navigation set must be identified with an appropriately worded placard.

5.3 **Carriage of Surveillance Equipment**

5.3.1 Commission Regulation (EU) No. 1207/2011 and UK Air Navigation Order.

5.3.1.1 Commission Regulation (EU) No. 1207/2011 applies to all flights operating as general air traffic in accordance with instrument flight rules within UK airspace. In addition, requirements for the carriage of Secondary Surveillance Radar (SSR) transponder equipment are given in the Air Navigation Order and related airspace requirements are notified in this section.

5.3.1.2 Commission Regulation (EU) No. 1207/2011 also requires aircraft with a maximum certified take-off mass exceeding 5700 KG or having a maximum cruising true airspeed capability greater than 250 KTS, operating under IFR, to be equipped with ADS-B version 2 datalink, typically pairing of a 1090 MHz Mode S “extended squitter” transponder with an approved GNSS navigation source to provide the required position, vector, altitude and velocity data.

5.3.1.3 A summary of the surveillance equipage requirements is given below:

Sub - para	Applicability	Requirements
SSR Transponder Equipment for Aircraft Operating Under IFR		
(a)	All fixed-wing aeroplanes operating under IFR having a MTOM in excess of 5700 KG **or** having a maximum cruising true airspeed capability in excess of 250 KT with an individual certificate of airworthiness first issued on or after 7 June 1995.	Mode S Enhanced Surveillance, ADS-B version 2 and Mode S Enhanced Surveillance
(b)	Other aircraft operating in accordance with instrument flight rules within UK airspace.	Mode S Elementary Surveillance
SSR Transponder Equipment for Aircraft Operating Under VFR		
(c)	All aircraft operating under VFR within United Kingdom controlled airspace of Classification B and C.	Mode S Elementary Surveillance
(d)	All aircraft operating under VFR within United Kingdom airspace at and above FL 100.	Mode S Elementary Surveillance

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

Sub - para	Applicability	Requirements
(e)	All aircraft operating under VFR within United Kingdom airspace notified as a 'Transponder Mandatory Zone'. ***Note:*** *Applies to Airspace Classes D, E, F and G as appropriate.*	Mode S Elementary Surveillance
(f)	All aircraft operating under VFR flying for the purpose of Public Transport.	Mode S Elementary Surveillance

5.3.2 **Transponder carriage and operation, Transponder Mandatory Zone Airspace**

5.3.2.1 In accordance with SERA.13001 (a), when an aircraft carries a serviceable SSR transponder, the pilot shall operate the transponder at all times during flight, regardless of whether the aircraft is within or outside airspace where SSR is used for ATS purposes. Pilots are to operate the transponder if equipped and to the full extent of its capabilities. This includes Elementary and Enhanced Mode S and Mode A/C. Pilots of Mode A/C equipped aircraft should note that Mode C should NOT be deselected at any time. The pilot of an aircraft that wishes to operate in a Transponder Mandatory Zone (TMZ - see 5.3.2.2) without such serviceable transponder equipment may be granted access to the TMZ subject to specific ATC approval.

5.3.2.2 **Notified 'Transponder Mandatory Zone' Airspace**

For the purposes of the UK Air Navigation Order and SERA.6005, the following airspace is notified as a 'Transponder Mandatory Zone':

- The vertical and lateral boundaries of Scottish TMA 1, 2, 3, 4 & 5 between 6000 FT ALT and FL 100 as detailed in ENR 2.1.
- The vertical and lateral boundaries of Scottish TMA 6 & 7 as detailed in ENR 2.1.
- The vertical and lateral boundaries of the London Control Zone as detailed in AD2-EGLL.
- The vertical and lateral boundaries of the Stansted TMZ as detailed in AD2-EGSS.
- The vertical and lateral boundaries of the Farnborough TMZ as detailed in AD2-EGLF.
- The vertical and lateral boundaries of the London Array TMZ as detailed in ENR 2.2 Paragraph 4.
- The vertical and lateral boundaries of the Humber Gateway TMZ as detailed in ENR 6-25 and ENR 2.2 Paragraph 4.
- The vertical and lateral boundaries of the Burbo Bank TMZ as detailed in ENR 6-28 and at ENR 2.2 Paragraph 4.
- The vertical and lateral boundaries of the Walney TMZ as detailed in ENR 6-28 and at ENR 2.2 Paragraph 4.
- The vertical and lateral boundaries of Argyll CTAs 1, 2 & 3 as detailed in ENR 2.1.
- The vertical and lateral boundaries of Moray CTA (except Moray CTAs 14 & 15) as detailed in ENR 2.1.
- The vertical and lateral boundaries of Holyhead CTAs 15 & 16 as detailed in ENR 2.1.
- The vertical and lateral boundaries of the Moray Firth TMZ as detailed in ENR 2.2 Paragraph 4.

→

5.3.2.3 Temporary Transponder Mandatory Zones put in place to meet urgent operational requirements may not be incorporated in the AIP due to their limited duration. They will be notified through appropriate means including NOTAM and AIC.

5.3.2.4 En-route Transponder Mandatory Zones are detailed at ENR 2.2 Paragraph 4, and aerodrome specific Transponder Mandatory Zones are detailed in the AIP Aerodrome Index – Specific.

5.3.3 **Mode S Capability**

5.3.3.1 **Enhanced Surveillance.** An aircraft is only considered to be compliant with the Mode S Enhanced Surveillance requirements when it can provide all the Downlinked Aircraft Parameters (DAPs) notified in Part 6 to the Air Navigation (General) Regulations 2006 and which have been certificated as compliant with the requirements of EASA AMC 20-13 or with equivalent national certification requirements.

5.3.3.2 **Elementary Surveillance.** An aircraft is only considered to be compliant with the Mode S Elementary Surveillance requirements when it meets the requirements notified in Part 6 to the Air Navigation (General) Regulations 2006 and has been certificated as compliant with the requirements of EASA CS-ACNS. In addition, provided that the differences listed in CS-ACNS Sub-part D, Appendix D have also been addressed, then previous compliance declarations with JAA TGL 13 Revision 1 (Certification of Mode S Transponder Systems for Elementary Surveillance) supplemented with the additional assessments is another Acceptable Means of Compliance.

Note 1: *The minimum capability for the secondary surveillance transponder shall be Mode S Level 2 meeting the performance and functionality objectives of Annex 10 to the Chicago Convention, Volume IV, Third Edition including all amendments up to No 77.*

Note 2: *In accordance with ICAO Annex 10 Volume IV paragraph 3.1.2.10.4, Mode S transponders installed on aircraft with maximum certified take-off mass exceeding 5700 KG or a maximum cruising true airspeed capability in excess of 250 KTS, shall operate the Mode S transponders above with antenna diversity operation i.e. two RF ports for operation with two antennas, one antenna on the top and the other on the bottom of the aircraft's fuselage.*

5.3.4 **Exceptions**

5.3.4.1 The requirements at sub-paragraphs 5.3.1.3 (c) to 5.3.1.3 (e) shall not apply to:

a) Gliders, including self-sustaining gliders and self-propelled hang gliders, and self-launching motor gliders;

i. Where operating above FL 195 inside airspace notified as TRA(G), or

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

ii. Where operating below FL 195 inside notified Non-SSR Transponder Glider Areas.

b) Aircraft below FL 100 in Controlled Airspace outside of the London Terminal Manoeuvring Area when receiving an approved crossing service;
c) Aircraft operating in accordance with a clearance from an appropriate ATC unit for a particular flight, whilst complying with the appropriate Rules of the Air that apply to the airspace concerned and any specific instructions that the ATC unit may give;
d) Aircraft operating in accordance with a general permission given by the appropriate ATC unit, whilst complying with the appropriate Rules of the Air that apply to the airspace concerned and any specific instructions that the ATC unit may give in relation to that particular flight operating under the general permission.

5.3.4.2 The requirements at sub-paragraph 5.3.1.3 (f) shall not apply to:

a) Gliders, including self-sustaining gliders and self-propelled hang gliders, and self-launching motor gliders except when flying above FL 195 outside of airspace notified as TRA(G);
b) Balloons except when flying in the circumstances prescribed at paragraphs 5.3.1.3 (c) to 5.3.1.3 (e).

5.3.4.3 The exception at paragraph 5.3.4.1 (a)(ii) applies in accordance with any specific permission issued by the CAA and published on its website.

5.3.4.4 In accordance with 5.3.4.1 (a) (ii), in order to inform other airspace users of intended flights in Non-SSR Transponder Glider Area 1 (essentially covering much of the Scottish mainland away from the TMAs), glider operators will notify planned areas of operation by NOTAM, typically issued not later than 1400 hours on the day before the planned flight(s).

5.3.5 **Exemptions**

5.3.5.1 **Non Mode S Enhanced Surveillance Capable Aircraft**

5.3.5.1.1 Fixed-wing aircraft operating under IFR having a maximum take-off mass in excess of 5700 KG or having a maximum cruising true airspeed capability in excess of 250 KT, with an individual certificate of airworthiness first issued before 7 June 1995, which are not Mode S Enhanced Surveillance and ADS-B v2 compliant, do not have to comply with these requirements. The aircraft must be Mode S Elementary Surveillance compliant, as a minimum.

5.3.5.1.2 Exemptions from the Mode S Enhanced Surveillance and ADS-B v2 requirements will not be granted for fixed-wing aircraft operating IFR in UK airspace with a first certificate of airworthiness issued on or after 7 June 1995 except for aircraft:

- That are being flown in or out of UK airspace, for the purpose of maintenance and engineering at approved facilities.
- That are being flown out of UK airspace for export purposes;
- That will be taken out of service from UK airspace no later than 31 October 2025.

5.3.5.1.3 Operators of aircraft, with a first certificate of airworthiness issued before 7 December 2020 that is not Mode S Enhanced Surveillance and ADS-B v2 compliant do not have to comply with the requirements until 6 June 2023 inclusive at the latest, subject to having established a retrofit programme before 7 December 2020 demonstrating how they will establish compliance.

5.3.5.2 **Exceptional Circumstance Exemptions from Mode S Elementary Surveillance.** Exemptions from the SSR transponder carriage for ELS requirements will not normally be issued. However, if it is considered that exceptional circumstances exist, an application should be made to:

Post: CNS Policy, Safety and Airspace Regulation Group
Aviation House
Gatwick Airport South
West Sussex
RH6 0YR

Phone: +44 (0)330-138 3373
Email: modes@caa.co.uk

Applications shall state details of the inability to meet the requirement, including aircraft type, registration and, where applicable, the forecast date by which installation of equipment will be complete. Due to the significant coordination and planning required with ATS providers, such applications must be made at least 5 days in advance of the flight.

5.3.5.2.1 Where a non-compliant aircraft does not have an exemption as prescribed above the ATS provider is likely to refuse to provide a service within UK airspace.

5.3.5.3 **Transponder Failure.** Cases in respect of transponder failure are to be dealt with in accordance with the SSR Operating Procedures as promulgated in ENR 1.6.2, paragraph 4.

5.3.5.4 **Emergencies.** An aircraft in an emergency situation will be afforded the appropriate level of priority, which shall include implicit exemptions from the appropriate legislation for the purpose of saving life.

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

5.3.6 **Channel Islands Control Zone**

5.3.6.1 Requirements for the Channel Islands Control Zone are given at EGJJ AD 2.22, paragraph 1.

5.3.7 **State Aircraft**

5.3.7.1 All visiting non-compliant state aircraft require a dispensation against the AIP not to carry the required equipment as detailed at paragraph 5.3.1. All applications for dispensations to be made to:

Post: CNS Policy, Safety and Airspace Regulation Group
Aviation House
Gatwick Airport South
West Sussex
RH6 0YR

Phone: +44 (0)330-138 3373
Email: modes@caa.co.uk

Dispensations are only issued up to a maximum length of 3 months, after which time a new application will need to be submitted.

5.3.8 **Flight Plans**

5.3.8.1 Operators of non-equipped State aircraft communicated as per Article 8(3) and operators of aircraft not equipped in accordance with Article 5(5) of the Commission Regulation (EU) 1207/2011, or hold a valid exemption from the UK CAA, operating wholly or partially within the UK airspace shall include the indicators SUR/EUADSBX or SUR/EUEHSX or SUR/EUELSX or a combination thereof, in Item 18 of the flight plan.

5.4 **Carriage of Airborne Collision Avoidance Systems (ACAS) in the Scottish FIR/UIR and the London FIR/UIR**

5.4.1 The requirements for the carriage of Airborne Collision Avoidance Systems (ACAS) are contained in the UK Air Navigation Order. Traffic Alert and Collision Avoidance System (TCAS) II is accepted as a suitable ACAS system provided its installation is certificated by the State of Registry, and that its operation by flight crew is in accordance with instructions for the use of this equipment specified in their company's operations manual.

5.4.2 With the exception of those circumstances at paragraph 5.4.3, all turbine-powered aeroplanes with a maximum certificated take-off mass exceeding 5700 KG or authorised to carry more than 19 passengers, and all other aircraft equipped on a voluntary basis with ACAS II are to be fitted with, and operate, TCAS II software Version 7.1 with a Mode S transponder compliant with Annex 10 Mode S SARPs within UK Airspace.

General flight procedures relating to the operation of ACAS II equipment are detailed at ENR 1.1, paragraph 3, General Flight Procedures. This includes operation of aircraft when ACAS II is unserviceable.

5.4.3 **Exemptions**

5.4.3.1 A General Exemption from the requirements of the UK Air Navigation Order concerning the carriage of ACAS II has been granted for aeroplanes operating under certain conditions. Two classes of flights are affected:

a) **Delivery Flights.** Aeroplanes newly manufactured within European Civil Aviation Conference (ECAC) member states, which are not fitted with ACAS II. These will be permitted to transit on direct flights only, out of the airspace of ECAC member states to regions where the carriage and operation of ACAS II is not required.
b) **Maintenance Flights.** Direct flights by aeroplanes, which are not fitted with ACAS II, from outside ECAC member states, for the purpose of maintenance and engineering at facilities located within the ECAC member states.

5.4.3.2 Following notification approval of an ACAS II exemption for the flight, the aircraft operator should indicate on the Flight Plan that the flight is being operated under the provisions of the ACAS II Delivery and Maintenance Flight Exemption provisions, by inserting, in Field 18, the information:

'RMK / Delivery flight - ACAS II exemption approved', or 'RMK / Maintenance flight - ACAS II exemption approved'.

5.4.3.3 Flights operated under the provisions of these exemptions must be non-revenue flights. An ACAS II delivery or maintenance flight exemption is not available for those flights seeking only to transit through the airspace of ECAC member states.

5.4.3.4 The following conditions apply:

a) Where agreed Regulations and Procedures exist, these shall be maintained.
b) An ICAO compliant altitude reporting transponder must be fitted and serviceable **before** departure.
c) An ACAS II exemption approval will be valid for a 3-day period from estimated departure date, and solely for the purpose for which it has been issued. If the flight is subsequently delayed beyond the maximum 3-day exemption period a fresh application must be submitted; this may take a further 3 working days to process.
d) An ACAS II Exemption Letter issued by the ASU, must be carried on-board the aircraft.

e) Conditions may be imposed by one or more ECAC Member States: such as operating within certain restrictive hours, or via specific routes, or at stated flight levels (for safety reasons or otherwise).
f) The flight must be conducted along the most direct (or permissible) route to the delivery or maintenance destination airport.

Aircraft operators are to ensure compliance with the above conditions and that the exempted flight is in accordance with the operator's originally stated intentions, and that it must comply with any conditions laid down by the CAA and subsequently by the ATC authorities.

5.4.3.5 In addition, test flights are to be subject to established national regulations, procedures and authorisation. Carriage of ACAS II equipment will be addressed under the current provisions for avionics equipment required for these flights.

5.4.3.6 Operators of aeroplanes intended to be operated under the provisions of these exemptions must apply for an exemption on an individual, case-by-case basis, to the CAA at least 5 working days before a flight is due to depart for or from, or transit through, the Scottish FIR/UIR and the London FIR/UIR.

5.4.3.7 A General Exemption from the requirements of the UK Air Navigation Order concerning the carriage of ACAS II in has been granted for turbine-powered historical and ex-military aeroplanes into which it is recognized as being technically unfeasible to incorporate ACAS II. The exemption applies to aeroplanes which fall within the provisions of Annex II to the EC Regulation (EC) No. 216/2008 namely:

a) historic non-complex aircraft for which:
   i. initial design was established before 1 January 1955, and
   ii. production has been stopped before 1 January 1975;
b) aircraft having a clear historical relevance, related to:
   i. participation in a noteworthy historic event; or
   ii. a major step in the development of aviation; or
   iii. a major role played in the armed forces of a Member State;
c) aircraft that have been in the service of military forces, unless the aircraft is of a type for which a design standard has been adopted by the Agency;
d) replicas of (a), (b) or (c).

5.4.3.8 This exemption is automatically invoked by the inclusion of **'RMK / Historic Aircraft - ACAS II exemption approved'** in Field 18 of the ICAO Flight Plan Form (CA48). No further exemption application action is required.

5.4.3.9 Owners and operators of historical and ex-military aeroplanes intended to be operated under the provisions of this exemption must seek approval for flights through the airspace of other ECAC member states from the appropriate State authorities.

5.4.3.10 Operators of aeroplanes that meet the carriage requirements at paragraph 5.4.2 but are not equipped and cannot be operated under the provisions of the General Exemptions described at paragraphs 5.4.3.1 and 5.4.3.7 must apply for exemptions on an individual, case-by-case basis to the CAA at least 5 working days before a flight is due to depart for or from, or transit through, the Scottish FIR/UIR and the London FIR/UIR.

5.4.3.11 Owners and operators of aeroplanes intended to be operated under the provisions of these exemptions must seek approval for flights through the airspace of other ECAC member states from the appropriate State authorities.

5.4.4 **Departure from Air Traffic Control Clearances**

5.4.4.1 The legal aspects of departure from an air traffic control clearance in compliance with a TCAS Resolution Advisory are clarified in AIC P 079/2011.

5.4.5 **TCAS I**

5.4.5.1 TCAS I is an airborne collision avoidance system that utilises interrogations of, and replies from, airborne radar transponders to alert pilots to close proximity traffic. Unlike TCAS II it does not generate ‘Resolution Advisory' (RA) warnings. TCAS I is not intended for ICAO International implementation and standardisation and is not mandated for equipage.

5.4.6 **ACAS Systems Approvals**

5.4.6.1 Any ACAS system that operates by interrogating transponders using the 1030 and 1090 MHz frequencies must be approved to transmit by the National IFF/SSR Committee (NISC).

5.4.6.2 All TCAS II interrogators and certain TCAS I interrogators are covered by a series of generic NISC approvals to transmit. Operators of other TCAS I interrogators must apply to the NISC for approval on an individual basis.

5.4.6.3 A list of interrogators holding generic approvals, as well as the approval process for other TCAS interrogators is available in CAP 761.

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

5.4.7 **Further Information, Advice and Exemptions**

5.4.7.1 Further information and advice concerning the carriage and operation of ACAS II equipment (and exemptions from these) can be obtained from:

Post: Head of Airspace Regulation
Safety and Airspace Regulation Group
Aviation House
Gatwick Airport South
West Sussex
RH6 0YR
Phone: +(0)20-7453 6510
Fax: +(0)20-7453 6565
Email: airspaceregulation@caa.co.uk

5.5 **8.33 kHz Channel Spacing in the VHF Radio Communications Band**

5.5.1 Non-equipped flights which are flight planned to enter any FIR/UIR in the EUR region where no exemptions have been published, except for those applicable to UHF equipped State flights (refer to AIP/Supplement of the State covering the FIR/UIR concerned), must flight plan outside of converted airspace. Non-equipped IFR flights will be rejected from specific sectors or states. Within the Scottish FIR/UIR and the London FIR/UIR, flights must equip in accordance with GEN 1.5, paragraph 5.2.

5.6 **Use of GPS for North Sea Operations**

5.6.1 UK AOC Holders intending to use GPS for en-route navigation for North Sea flight operations are to use GPS equipment that meets or exceeds CAA Specification 22. AOC holders requiring further information should contact their assigned flight operations Inspector. Non UK AOC holders are recommended to operate to at least the CAA Specification 22 standard.

5.7 **Controller-Pilot Data Link Communication Service in UK Domestic Airspace**

5.7.1 **Introduction**

5.7.1.1 Controller-pilot data link communication (CPDLC) provides a means of communication between the controller and pilot, using data link for ATC communication. This application includes a set of clearance/information/request message elements which corresponds to the phraseologies used in the radiotelephony environment. Standard voice radiotelephony will remain the primary means of ATC communications at all times. Any failure event concerning CPDLC will lead to a reversion to voice operation.

5.7.1.2 CPDLC services are available in the Scottish FIR/UIR and the London FIR/UIR, and these are distinct from Oceanic CPDLC procedures.

5.7.1.3 CPDLC services are available from FL 285 and above and will be provided at FL 195 and above where possible within the Scottish FIR/UIR and the London FIR/UIR. The following CPDLC services are provided in this airspace:

- DLIC (data link initiation capability)
- ACL (ATC clearances and instructions)
- ACM (ATC communications management)
- AMC (ATC microphone check)

5.7.1.4 Provision of CPDLC services is based on the requirements of the Commission Regulation (EC) No. 29/2009, as amended, on data link services. The rule applies to all flights operating as general air traffic in accordance with instrument flight rules within the airspace above FL 285. A CPDLC service is provided to ATN VDL 2, FANS1/A and FANS1/A+ equipped aircraft.

5.7.1.5 Aircraft meeting the conditions as specified in Article 3(3) of Commission Regulation (EC) No. 29/2009, as amended, or as defined in Commission Implementing decision 2019/2012 are not required to be equipped with CPDLC Aeronautical Telecommunications Network (ATN) Very High Frequency Data Link Mode 2 (VDL Mode 2) capable data link systems. In order to ensure that ATS providers have information on such aircraft, this should be indicated on the filed flight plan.

5.7.1.6 Operators conducting flights wholly or partly in airspace where ATN B1 CPDLC is required but for which Commission Regulation (EC) No. 29/2009, as amended, is not applicable in accordance with Article 3(3), or which aircraft types/models are exempted by Commission Implementing Decision 2019/2012, should include the letter "Z" in item 10 and the indicator "DAT/CPDLCX" in item 18 of each flight plan. Operators that voluntarily equip their aircraft in compliance with Commission Regulation (EC) No. 29/2009, as amended, and intend to use the CPDLC capability do not need to indicate in their flight plans the status as exempted.

5.7.2 **Area of Applicability**

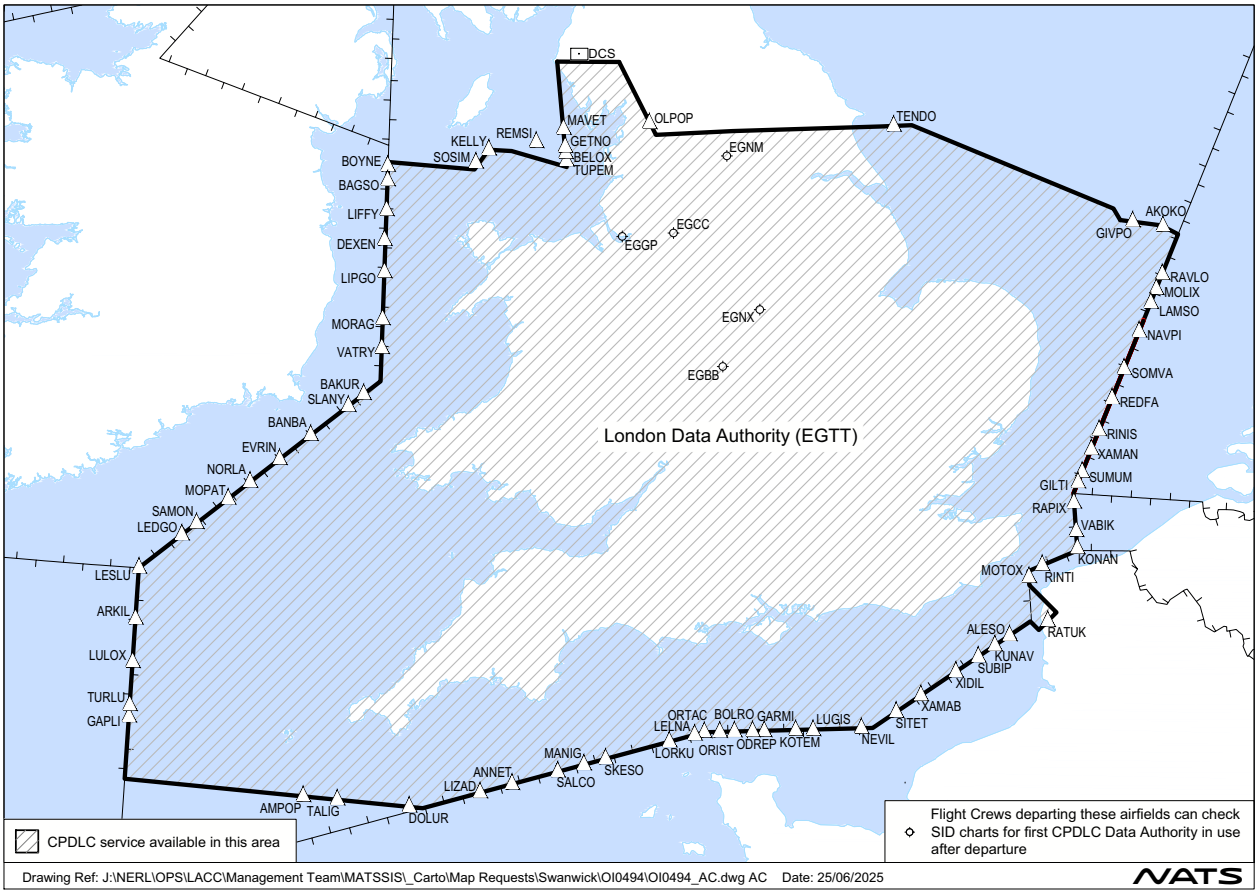
Flight Crews should refer to the map of NATS CPDLC Data Authorities (see figures below).

5.7.2.1 **Aircraft Transiting Airspace Where a CPDLC Service is Not Available**

5.7.2.1.1 Aircraft transiting airspace below FL 285 where a CPDLC service is not available will maintain a logon, but will not receive a CPDLC service. Upon entering airspace where a logon is maintained but CPDLC is not available, the flight will be notified via CPDLC. The

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

specific messages are detailed in the current AIC.



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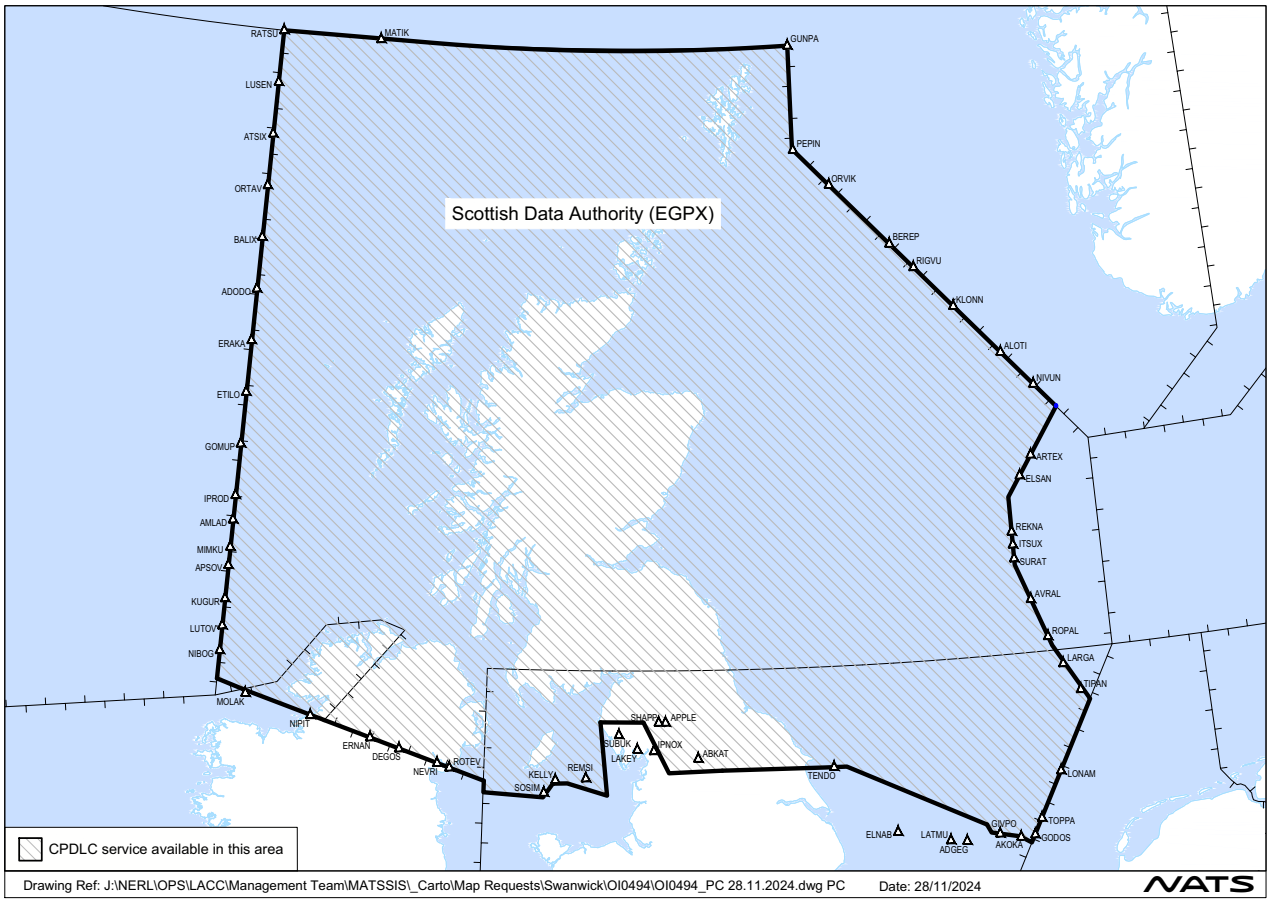

5.7.3 **Requirements**

In all CPDLC communications, the highest standard of discipline shall be observed at all times (Ref. ICAO Annex 10, Vol. II).

The use of CPDLC is not mandatory and is conducted at the discretion of ATC and the pilots concerned. Where urgent or time critical communications are required voice shall be used. Voice read-back is not required for any CPDLC instruction. In cases were uncertainty arises as a result of a data link message, communication shall revert to voice.

5.7.3.1 **Flight Plan**

5.7.3.1.1 In order to use the CPDLC services, pilots shall file the respective equipage in their flight plan in accordance with Flight Plan 2012 J codes.

5.7.3.1.2 For flights granted a CPDLC exemption, the indicator DAT/CPDLCX shall be included in Item 18 of the flight plan.

5.7.3.2 **Establishing a CPDLC connection**

5.7.3.2.1 Establishment of a CPDLC connection through the initiation of a logon is a pre requisite for receiving CPDLC service. Prior to initiating the logon, the flight crew should verify the correctness of the logon information associated with the flight plan.

5.7.3.2.2 A CPDLC service is only established when all the required logon parameters match those contained in the ICAO flight plan:

For an ATN LOGON:

- Mode-S Aircraft-ID i.e. ICAO [Flight plan item 7] callsign
- Aircraft ID – 24bit address
- ICAO Flight plan Departure and destination airfields (not IATA codes)

For a FANS LOGON:

- Mode-S Aircraft-ID i.e. ICAO [Flight plan item 7] callsign
- Aircraft registration
- ICAO Flight plan Departure and destination airfields (not IATA codes)

5.7.3.2.3 To resolve any discrepancies, airlines will need to contact the relevant ATC data authority using the email address specified in the

current AIC.

5.7.3.2.4 For Dual Stacked operators equipped with both FANS 1/A or FANS 1/A + and ATN VDL 2 as separate systems the preferred mode of operation is ATN VDL 2.

5.7.3.2.5 If there is an indication that the logon procedure was unsuccessful, the flight crew should confirm that the logon information above is correct and retry a logon. If on a second attempt connection is still not successful, revert to voice.

5.7.3.3 **Current Data Authority (CDA) / Next data Authority (NDA) Confirmation**

5.7.3.3.1 Aircraft entering the Scottish or London Data Authority for the first time will receive a welcome message to establish CDA. The welcome message will be an uplink UM183 (with ATSU facility designator) to all CPDLC equipped aircraft. Aircraft must respond to this message for CDA to be established.

5.7.3.3.2 For more information on this process, refer to PANS ATM section 14, the ICAO GOLD version 2.0, or Eurocontrol guidance material for ATC and Flight Crews V6.0.

5.7.4 **Procedures**

5.7.4.1 **Logon for transiting aircraft**

5.7.4.1.1 The Data Authority address for London ACC is EGTT. The Data Authority address for Scottish ACC is EGPX.

5.7.4.1.2 CPDLC log on shall be established in sufficient time to ensure that the aircraft is communicating with the appropriate Data Authority. The following guidance criteria provided by GOLD is applicable to UK airspace.

Logon Timing Condition(s)	When	Logon Address of Data Authority
15 minutes or more prior to boundary estimate	When operating above FL 100	Current Data Authority for the airspace in which the aircraft is operating
Less than 15 minutes prior to boundary estimate	When operating above FL 100	Next Data Authority that provides CPDLC and/or ADS C services on that flight
Following an unsuccessful data link transfer to another ATSU	When detected by the flight crew or upon receipt of instruction from ATC	As instructed or per above

5.7.4.1.3 For flights departing aerodromes in the United Kingdom logon may also be conducted by aircraft on the ground where coverage exists.

5.7.4.1.4 Standard Instrument Departure plates for aerodromes close to the boundary of EGTT/EGPX data authorities (see London Data Authority map) will advise flight crews of the appropriate CPDLC Data Authority to select prior to departure.

5.7.4.1.5 Flights transiting both London and Scottish ACC using CPDLC, the change of CDA to NDA will be initiated by the controller and will be automatically transferred seamlessly to the operator. The flight crew should not need to reinitiate a logon. The current and next data authority is notified to the aircrew by viewing the ACTIVE CENTRE and NEXT.

5.7.4.1.6 When entering the next ATSU's airspace, the flight crew should confirm the successful transfer from the Current Data Authority to the Next Data Authority by observing the change in the active centre indication provided by the aircraft system. Crews should be aware that they need to keep the CDA and the frequency aligned. THEY MUST NOT RESPOND TO UPLINK MESSAGES FROM A UNIT THAT THEY ARE NOT IN VOICE COMMUNICATION WITH.

5.7.4.2 **Log-off**

5.7.4.2.1 Flights leaving London or Scottish CDA to a non-CPDLC capable airspace will receive an 'End of Service' message and will be logged off automatically.

5.7.4.3 **Data link failure**

5.7.4.3.1 When the CDA detects a CPDLC failure, the controller will contact the aircraft using voice, inform the crew 'Disregard CPDLC [message type] message, break, [correct clearance or instruction]'. CREWS ARE REQUESTED TO RESPOND UNABLE IF THE MESSAGE REMAINS UNANSWERED. This closes the message dialogue and ensures that messages do not trigger time out alerts.

5.7.4.3.2 Due to safety concerns, there is a requirement for all FANS aircraft, following an uplink message timeout alert to disconnect from the CPDLC ground system. Controllers may instruct crews to disconnect via CPDLC using phraseology described in the current AIC.

'Disconnect CPDLC and revert to voice'

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS (continued)

5.7.5 **CPDLC message sets**

5.7.5.1 Currently there are two sets of messages being used:

- to support FANS 1/A equipped aircraft:
  Safety and Performance Standard for Air Traffic Data Link Services in Oceanic and Remote Airspace (Oceanic SPR Standard, RTCA DO-306/EUROCAE ED-122).
- and to support ATN VDL 2 equipped aircraft:
  Safety and Performance Standard for Air Traffic Data Link Services in Continental Airspace (Continental SPR Standard, RTCA DO-290/EUROCAE ED-120).

5.7.5.2 Messages supported by CPDLC in the UK are published in the corresponding AIC.

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GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS

1 The following list of titles and references of regulations affecting air navigation in the United Kingdom, Channel Islands and the Isle of Man, together with International Agreements/Conventions ratified by the United Kingdom. It is essential that anyone engaged in air operations be acquainted with the relevant regulations. The UK applies EU aviation safety legislation. Copies of these documents may be obtained from:

The Stationery Office UK.

Phone: 0870-600 5522
Http: http://www.tso.co.uk

European Union Aviation Safety Agency (EASA) regulation website.

Http: https://www.easa.europa.eu/regulations

A reference to a legal instrument, such as the Air Navigation Order 2009, is a reference to that instrument as amended. The various amending instruments are not shown separately.

Title	Main Subjects (where not self evident)
Aeroplane Noise Regulations 1999 (1999/1452)	
Air Navigation Order 2016 (2016/765) as amended	Registration, Airworthiness and Operation of Aircraft, Air Traffic Control, Aircrew and Aerodrome Licensing.
Air Navigation (General) Regulations 2006 (2006/601)	Load Sheets, Weight and performance of Public Transport Aircraft, Noise and vibration caused by aircraft, Maintenance, Landing facilities at aerodromes, Mandatory Reporting and Radio Navigation appliances to be carried on aircraft.
Air Navigation Aircraft (Wreck and Salvage) Order 1938 (1938/136)	
Air Navigation (Dangerous Goods) Regulations 2002 (2002/2786)	
Air Navigation (Environmental Standards) Order 2002 (2002/798)	
Air Navigation (Overseas Territories) Order 2013 (2013/2870) Air Navigation (Overseas Territories) (Environmental Standards) Order 2019	These Orders apply to Territories listed in the relevant schedule.
Air Navigation (Restriction of Flying) (City of London) Regulations 2004 (2004/2092) (Highgrove House) Regulations 1991 (1991/44) (Hyde Park) Regulations 2004 (2004/2090) (Isle of Dogs) Regulations 2004 (2004/2091) (Nuclear Installations) Regulations 2007 (2007/1929) (Prisons) Regulations 2001 (2001/1657) (Scampton Airfield) Regulations 2000 (2000/3390) (Scottish Highlands) Regulations 2008 (2008/1239) (Specified Area) Regulations 2005 (2005/964)	
Airports Slot Allocation Regulation 2006 (2006/2665)	
Aviation Security Act 1982	
Aviation Security (Air Cargo Agents) Regulations 1993 (1993/1073)	
Aviation and Maritime Security Act 1990 (c. 31)	
Carriage by Air Act 1961 (c. 27)	Gives effect to the Warsaw Convention as amended at The Hague, 1955.
Carriage by Air Acts (Application of Provisions) Order 1967 (1967/480)	Applies the principles of the Warsaw Convention as amended, and the Guadalajara Convention to carriage of mail and to non-international carriage within the meaning of those conventions to which those conventions do not themselves apply.
Carriage by Air Acts (Application of Provisions) (Overseas Territories) Order 1967 (1967/810)	
Carriage by Air (Convention) Order 1967 (c. 8) (1967/479)	
Carriage by Air Acts (Implementation of Protocol No 4 of Montreal 1975) Order 1999 (1999/1312)	
Carriage by Air (Parties to Convention) Order 1999 (1999/1313)	
Carriage by Air (Sterling Equivalents) Order 1999 (1999/2881)	Specifies the sterling equivalents of amounts, expressed in gold francs, in the Warsaw Convention and in the provisions relating to other carriage by air.
Carriage by Air (Supplementary Provisions) Act 1962 (c. 43)	To give effect to the Guadalajara Convention, supplementary to the Warsaw Convention, for the unification of certain rules relating to carriage by air by a person other than the contracting carrier; for the connected purposes.

GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS (continued)

Title	Main Subjects (where not self evident)
Carriage by Air and Road Act 1979 (c. 28) (Commencement No 1) Order 1980 (1980/1966) (Commencement No 2) Order 1997 (1997/2565) (Commencement No 3) Order 1998 (1998/2562)	
Civil Aviation Act 1982 (c. 16)	Establishment and functions of CAA. Power to make Air Navigation Order
Civil Aviation Act 2006 (c. 34) (Commencement No.1) Order 2007 (2007/598)	
Civil Aviation Act 2012 (c. 19)	
Civil Aviation (Air Carrier Liability) Order 1998 (1998/1751)	
Civil Aviation (Air Travel Organisers' Licensing) Regulations 2012 (2012/1017)	
Civil Aviation (Contributions to the Air Travel Trust) Regulations 2007 (2007/2999)	
Civil Aviation (Customs and Excise Airports) Order 1985 (1985/ 1643)	This Order designates aerodromes to be places for the landing and departure of aircraft for the purpose of the enactments for the time being in force relating to Customs.
Civil Aviation (Designation of Aerodromes) Order 1981 (1981/651)	
Civil Aviation (Documentary Evidence) Regulations 1972 (1972/ 187)	These regulations designate the authorities and persons who may certify the documents referred to in Section 6 of the Tokyo Convention Act 1967,
Civil Aviation (Eurocontrol) Act 1983 (c. 11) Civil Aviation (Eurocontrol) Act 1983 (Commencement No. 1) Order 1983 (1983/1886) (c. 50) Civil Aviation (Eurocontrol) Act 1983 (Commencement No. 2) Order 1985 (1985/1915) (c. 46)	The Convention, the organiser and status of Eurocontrol.
Civil Aviation (Insurance) Regulations 2005 (2005/1089)	
Civil Aviation (Investigation of Accidents) Regulations 1996 (1996/ 76)	
Civil Aviation (Investigation of Air Accidents and Incidents) Regulations 1996 (1996/2798)	
Civil Aviation (Investigation of Military Air Accidents at Civil Aerodromes) Regulations 2005 (2005/2693)	
Civil Aviation (Notices) Regulations 1978 (1978/1303)	
Civil Aviation (Personnel Licences) Order 1992 (1992/2673)	
Civil Aviation (Safety of Third-Country Aircraft) Regulations 2006 (2006/1384)	
Commission Regulation (EU) No 73/2010 (ADQ)	Requirements for the quality of aeronautical data and aeronautical information for the Single European Sky (see GEN 1.6 paragraph 5).
Commission Implementing Regulation (EU) No 923/2012 (Standardised European Rules of the Air (SERA)) as amended	Flight over the high seas; protection of persons and property; avoidance of collisions; signals; time; flight plans; visual meteorological conditions, visual flight rules, special VFR and instrument flight rules; airspace classification and air traffic services.
Commission Regulation (EU) 1178/2011 as amended	EASA Aircrew Regulation (Aircrew Licensing)
Immigration Act 1971 (c. 77)	
Military Lands Act 1892 (c. 43)	Bye Laws which prohibit entry to Danger Areas.
Rules of the Air Regulations 2015 (2015/840)	Lights and other Signals; General and Special Flight Rules; Aerodrome Traffic Rules; Aerodrome Markings; Air Traffic Control; Miscellaneous Special Rules.
Summer Time Act 1972 (c. 6) Summer Time Order 1997 (1997/2982)	
Terrorism Act 2000	See GEN 1.2.1.1 Paragraph 5
Tokyo Convention Act 1967 (c. 52)	To give effect to the provisions of the Tokyo Convention, 1963, relating to offences etc. committed on board aircraft.
Tokyo Convention (Certification of Countries) Order 1977 (1977/ 1258) (Supplementary) Order 1978 (1978/1534)	This order certifies in which countries the Convention on Offences and certain other acts committed on board aircraft, is for the time being in force.
Note: *Formal Exemptions to Legislation listed on these pages may also be published*	

GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS (continued)

Title	Main Subjects (where not self evident)
CHANNEL ISLANDS	
Civil Aviation Act (Channel Islands) Order 1953 (1953/393)	
Civil Aviation Act (Channel Islands) Order 1966 (1966/688)	Extension to the Channel Islands to certain provisions of the Civil Aviation Act
Civil Aviation Act 1971 (Channel Islands) Order 1972 (1972/450)	Enables His Majesty to confer power on certain authorities in the Channel islands to make regulations.
ALDERNEY	
Air Transport Licensing (Alderney) Law 1996	Notifies the requirements for application to be made to the States of Alderney for a licence to operate Scheduled or Charter Flights between Alderney and the UK, Isle of Man and other Channel Islands
Airport Ordinance 1950	General Regulations for the use of Alderney Airport
Airports Fees Ordinance 1987	Regulations under which fees and charges are determined for the use of Alderney Airport.
GUERNSEY	
Air Navigation (Guernsey) Order 1981 (1981/1805)	This Order extends the provisions of the ANO, subject to modifications set out in the Schedule, to Guernsey.
Air Navigation (General) (Guernsey) Regulations 1972 (1972/486)	These Regulations apply to the UK Air Navigation (General) Regulations as amended, to Guernsey.
Air Navigation (Restriction of Flying) (Guernsey) Regulations 1985 (Guernsey 1985/21)	Notifies the Sark Restricted Area (R 095).
Air Transport Licensing (Guernsey) Law 1995	
Airport Ordinance 1950	General Regulations for the use of Guernsey Airport
Airport Fees Ordinance 1987	Regulations under which fees and charges are determined for the use of Guernsey Airport.
Aviation Security (Guernsey) Order 1997 (1997/2989)	Extension to Guernsey of certain provisions of the UK Aviation Security Act 1982, and the Aviation and Maritime Security Act 1990.
Carriage by Air (Guernsey) Order 1967 (1967/804) Carriage by Air (Application of Provisions) (Guernsey) Order 1967 (1967/807)	
Civil Aviation Act 1980 (Guernsey) Order 1984 (1984/130)	
Civil Aviation Act 1982 (Guernsey) Order 1986 (1986/1162)	Extension to Guernsey of certain provisions of the Civil Aviation Act.
Civil Aviation (Investigation of Air Accidents and Incidents) (Guernsey) Order 1998 (1998/1503)	The Order extends the provision of the UK Order, subject to modifications set out in the schedule, to Guernsey
Detention of Aircraft (Guernsey and Alderney) Law 1994	
Firearms Ordinance 1987	Notifies Fort Le Marchant Small Arms range
Terrorism and Crime (Bailiwick of Guernsey) Law 2002	
Public Health (Aircraft) (Guernsey) Order 1974 (Guernsey 1974/47)	
Rules of the Air and Air Traffic Control (Guernsey) Regulations 1985 (1985/23)	Regulations as UK Legislation, but made under the Air Navigation (Guernsey) Order 1981 and applying to the Bailiwick of Guernsey.
JERSEY	
Aerodromes Administration (Jersey) Law 1952	
Aerodromes (Jersey) Regulations 1965	
Air Navigation (Jersey) Law 2014	
Airport Dues (Jersey) Law 1956	
Aviation Security (Jersey) Order 1993	
Carriage by Air (Jersey) Order 1967	
Carriage by Air (Application of Provisions) (Jersey) Order 1967	
Civil Aviation Act 1982 (Jersey) Order 1990	Extension to Jersey of certain provisions of the Civil Aviation Act.
Terrorism (Jersey) Law 2002	
Public Health (Aircraft) (Jersey) Order 1971	
Air Navigation (Rules of the Air) (Jersey) Regulations 2017	Regulations as per Standardised European Rules of the Air (SERA), but made under the Air Navigation (Jersey) Law 2014.
Civil Aviation (Jersey) Law 2008	
Note: *Copies of the Legislation listed for Channel Islands, Alderney and Guernsey can be obtained from: The Greffe Office, St Peter Port, Guernsey.*	
Note: *Copies of the Legislation listed for Jersey can be obtained from the Jersey Legal Information Board website. www.jerseylaw.je*	
Note: *Formal Exemptions to Legislation listed on these pages may also be published.*	

GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS (continued)

Title	Main Subjects (where not self evident)
ISLE OF MAN	
Civil Aviation Legislation	
Civil Aviation Act 1982	As amended and applied to the Isle of Man by the following: Civil Aviation (Isle of Man) Order 2007 (SI 2007/614); Civil Aviation (Application) Order 2006; Civil Aviation Acts (Application)(Amendment) Order 2017; Civil Aviation Acts (Application)(Amendment) Order 2019; Civil Aviation Acts (Application) (Amendment) Order 2023. Extends to the Isle of Man the Civil Aviation Act 1982 in part.
Airports and Civil Aviation Act 1987	
Aviation Safety	
Air Navigation (Isle of Man) Order 2015	Airworthiness; operation of aircraft; personnel licensing.
Civil Aviation (Miscellaneous Provisions) Order 2020	Common interpretations used Statutory Documents made under the Airports and Civil Aviation Act 1987. Conduct of the Department.
Civil Aviation (Aerodromes) Order 2022	
Civil Aviation (Air Traffic Services) Order 2020	
Civil Aviation (Aircraft Registration and Marking) Order 2022	
Civil Aviation (Investigation of Air Accidents and Incidents) Order 2019	including EC Regulations No. 996/2010 on the investigation and prevention of accidents and incidents in civil aviation on the Island.
Civil Aviation (Occurrence Reporting) Order 2020	
Civil Aviation (Ramp Inspection) Order 2024	
Civil Aviation (Rules of the Air) Order 2021	
Civil Aviation (Safe Transport of Dangerous Goods) Order 2020	
Civil Aviation (Small Unmanned Aircraft) Order 2020	
Railways and Transport Safety Act 2003	As amended and applied by SD 0232/13 and 2018/0279, in part.
Aviation Security	
Aviation Security Act 1982	As applied and amended.
Aviation and Maritime Security Act 1990	As applied and amended.
Anti-Terrorism, Crime and Security Act 2001	As applied and amended.
Aviation Security Regulations 2010	As applied and amended.
Aviation Security Act 1982 (Civil Penalties) Regulations 2015	As applied and amended.
Civil Aviation (Aviation Security) (Application) 2024	Regulation EC No 300/2008; Regulation EC No 272/2009; Regulation EU No 18/2010; Regulation EU No 297/2010; Regulation EU No 720/2011; Regulation EU No 1141/2011; Regulation EU No 245/2013; as applied and amended.
Miscellaneous Aviation Legislation	
Civil Aviation (Carbon Offsetting and Reduction Scheme For International Aviation) Order 2024	CORSIA
Civil Aviation (Charges) Scheme 2024	Updated annually from 01 April.
International Interests in Aircraft Equipment (Cape Town Convention) Regulations 2015	
Air Navigation (General) Regulations 2006	Navigation performance and equipment; Noise and vibration caused by aircraft on aerodromes.
Civil Aviation (Insurance) Regulations 2005	
(EC) Regulations No. 785/2004	Insurance requirements for air carriers and aircraft operators.
Civil Aviation (Aircraft Noise Certification) Order 2024	
Air Carrier Liability Order 1998	
Civil Aviation (Aerial Advertising) Regulations 1995	
Civil Aviation (Procedure) Regulations 1991	Also refer to Miscellaneous Provisions Order 2020.
Civil Aviation (Documentary Evidence) Regulations 1972	
Civil Aviation (Births, Deaths and Missing Persons) Regulations 1948	
Note: *Copies of the Legislation with consolidated 'as amended and applied' versions can be obtained from www.gov.im/caa.*	

GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS (continued)

2 Landing and Taking Off Near Open Air Assemblies

2.1 When an event involving an organised open-air assembly of more than 1000 people takes place within 1000 metres of an unlicensed aerodrome or helicopter landing site, compliance with the following procedures is required under Standardised European Rules of the Air SERA.3105 Minimum Heights.

2.2 **Procedures applicable at a pre-existing unlicensed aerodrome:**

a) Landing and take-off shall only be performed with the permission of the person in charge of the aerodrome;
b) Aircraft shall not fly over any area occupied by spectators or car parks below a height of 1000 FT AGL unless at such a height as will permit, in the event of an emergency arising, a landing to be made without undue hazard to persons or property on the surface; and
c) The person in charge of the aerodrome shall ensure that on the ground, aircraft and members of the public are segregated from each other.

2.3 **Procedures applicable at a temporary helicopter landing site:**

a) The helicopter commander or operator shall obtain the written permission of the person in charge of the event prior to using the landing site;
b) The person in charge of the event should convey to helicopter commanders written details pertaining to the location and layout of the landing site and the procedures to be employed;
c) The person in charge of the event should inform the local police authority a minimum of 24 hours in advance of the commencement of operations;
d) The person in charge of the event shall ensure that on the ground, aircraft and members of the public are segregated from each other;
e) Landing and take-off shall only be performed:

i. During daylight hours;
ii. When the cloud ceiling is higher than 600 FT AGL and the flight visibility is more than 3 KM;

f) Helicopters shall not fly over any area occupied by spectators or car parks below a height of 1000 FT AGL or such height as will permit the helicopter, in the event of a power unit failure, to alight clear of the assembly, whichever is the higher;
g) Landing and take-off shall be made in an area which has been set aside for the purpose and helicopters which are landing and taking off shall maintain a safe distance from persons located outside the area, of at least 30 metres; and
h) Approach and departure shall be made over clear areas so that a safe forced landing can be achieved in the event of engine failure.

2.4 **Procedures applicable to aeroplane operations at a temporary aerodrome:**

a) Operations should be conducted in accordance with the guidance contained in CAP 793;
b) The aircraft commander or operator shall obtain the written permission of the person in charge of the event prior to using the aerodrome;
c) The person in charge of the event should convey to aircraft commanders written details pertaining to the location and layout of the aerodrome and the procedures to be employed;
d) Aircraft shall not fly over any area occupied by spectators or car parks below a height of 1000 FT AGL or such height as will permit the aircraft, in the event of a power unit failure, to alight clear of the assembly, whichever is the higher.

2.5 CAP 793 contains guidance on safety standards at unlicensed aerodromes and CAP 789 contains guidance to operators who hold AOCs (both available at www.caa.co.uk). Further advice concerning operations at unlicensed aerodromes (for non-public transport operations) may be obtained from the Flight Operations Inspectorate (General Aviation) of the Civil Aviation Authority, Tel: 01293-573525. Further advice concerning operations at heliports or landing sites (for helicopter public transport operations) may be obtained from the Flight Operations Inspectorate (Helicopters) of the Civil Aviation Authority, Tel: 01293-573443.

3 Designation of Hostile Environment for Helicopter Operations, including Offshore Operations, in accordance with Commission Regulation (EU) No 965/2012 – Air Operations

3.1 Annex 1 to Commission Regulation (EU) 965/2012 (EASA Air Operations Regulation) contains the definition of Hostile Environment with regards to helicopter operations. (See also Air Navigation Order).

3.2 This designation and/or interpretation of a hostile environment applies only in relation to the EASA Air Operations Regulation and has no bearing on the circumstances in which the equipment requirements of the ANO apply.

3.3 Hostile environment means:

a) an area in which:

i. a safe forced landing cannot be accomplished because the surface is inadequate; or
ii. the helicopter occupants cannot be adequately protected from the elements;
iii. search and rescue response/capability is not provided consistent with anticipated exposure; or
iv. there is an unacceptable risk of endangering persons or property on the ground;

b) in any case, the following areas shall be considered hostile:

GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS (continued)

i. for over-water operations, the open sea areas North of 45N and South of 45S unless any part is designated as non-hostile by the responsible authority of the State' in which the operations take place; and
ii. those parts of a congested area without adequate safe forced landing areas.

3.4 For the purposes of operations under 3.3(b)(i) above, the UK does not designate any of the open sea areas North of 45N and South of 45S as a non-hostile environment.

3.5 For the purposes of operations in Performance Class 3 under CAT.POL.H.420 and in accordance with ARO.OPS.215, the UK has not designated any area where helicopter operations may be conducted without a safe forced landing capability.

3.6 When conducting offshore operations under an Offshore Specific Approval (SPA.HOFO), flights shall only be planned and commenced when the significant wave height of the sea over which the flight is intended to be conducted to or from an offshore location:

a) is 6 metres or less; and
b) does not exceed the certificated ditching performance of the helicopter.

Once the flight has been commenced and a deterioration in sea conditions beyond the limits in (a) or (b) above is experienced, the flight may be continued in accordance with procedures detailed in the operator's operations manual.

3.7 Interpretation of terms for use with paragraphs 3.3, 3.4 and 3.6:

a) 'Open Sea Area': The area of water to seaward of the seaward edge of the Coastal Corridor, where one exists, or the coastline where a Coastal Corridor does not exist.
b) 'Coastline' is deemed to include stretches of water such as river mouths and estuaries where the over water distance between the contiguous land mass does not exceed 8 NM.

Where used to define to airspace boundaries, 'Coastline' is defined as a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure.

c) 'Offshore operation' means a helicopter operation that has a substantial proportion of any flight conducted over open sea areas to or from an offshore location.
d) 'Offshore location' means a facility intended to be used for helicopter operations on either a fixed or floating offshore structure or vessel including an offshore installation or a renewable energy installation as defined in the **Civil Aviation Act 1982.**
e) 'Significant wave height' means the average value of the height (vertical distance between trough and crest) of the largest one-third of the waves present.
f) 'Coastal Corridor' from GM1 CAT.OP.MPA.137(b) is used for helicopters operating as Commercial Air Transport in Performance Class 3 and means:

'A variable distance from the coastline to a maximum distance corresponding to three minutes flying at normal cruising speed.'

For the United Kingdom (including Northern Ireland), and from the coastline of islands surrounding it, the maximum distance from the coastline corresponds to three minutes flying at normal cruising speed, but to no greater than 6 NM, where conditions are suitable for coastal transit.

g) 'Coastal Transit' from GM1 CAT.OP.MPA.137(b) in relation to helicopters operating as Commercial Air Transport in Performance Class 3 means:

'The conduct of operations over-water within the Coastal Corridor in conditions where there is a reasonable expectation that:

i. the flight can be conducted safely in the conditions prevailing;
ii. following an engine failure, a safe forced landing and successful evacuation can be achieved; and
iii. survival of the crew and passengers can be assured until rescue is effected.'

4 Designation of the London and Scottish Flight Information Regions as the area within which certain documents may be retained at the aerodrome or operating site in accordance with UK Regulation 965/2012 – Air Operations and UK Regulation 2018/1976 - Sailplane Regulations

4.1 Annexes VII (Part-NCO) and VII (Part-SPO) to UK Regulation 965/2012 (UK Air Ops) and UK Regulation 2018/1976 (Sailplane Regulations) contain the option for the CAA to designate an area within which certain documents may be retained at the aerodrome or operating site.

4.2 The CAA, in accordance with NCO.GEN.135(b)(2) and SPO.GEN.140(b)(2), ARO.OPS.210 and SAO.GEN.155(d), has determined that the London and Scottish Flight Information Regions (FIR) are the designated areas for the purpose of these regulations.

4.3 For details of the documents which shall be carried on all flights reference should be made to the relevant Annex of the UK Air Operations Regulations and Sailplane Regulations.

5 Data quality requirements - Commission Regulation (EU) 73/2010

5.1 Commission Regulation (EU) No 73/2010 lays down 'requirements for the quality of aeronautical data and aeronautical information

GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS (continued)

for the Single European Sky'. The purpose of this regulation is to strengthen and enhance the Standards for Aeronautical Information Services described in (ICAO) Annex 15.

5.2 Aeronautical Data and Information in the UK IAIP is not currently compliant with this regulation.

5.3 CAA is working to ensure that the requirements of this regulation will be met. As the UK IAIP transitions towards full compliance, data not meeting the requirements of Commission Regulation (EU) No 73/2010, will be suitably identified as such.

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GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES

1 In CAA publications, where a term is used, which is defined by ICAO in a relevant Annex or PANS document, that definition will apply unless: →

a) the contrary is indicated; or
b) there is a different definition in the Air Navigation Order or European Union Regulations.

2 Differences to ICAO definitions and SARPS are identified in the tables below.

Annex 1: Personnel Licensing (13th Edition) (AMDT 177)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
No Significant UK Differences				

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 2: Rules of the Air (10th Edition) (Amendment 46)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C1 1.0.1	Definition: Acrobatic Flight	More exacting or exceeds	Air Navigation Order 2016 definition is more aligned to specific aerobatic manoeuvres. UK Reg (EU) No 923/2012 definition includes Annex 2 definition but expands upon it to highlight that it is not associated with "normal" flight.	The UK uses the terms aerobatic manoeuvres (ANO 2016) and aerobatic flight (UK Reg (EU) No 923/2012.
C1 1.0.81	Definition: Operator	Different in character or other means of compliance	The UK Air Navigation Order definition refers to the person who has responsibility for the management of the aircraft.	
C1 1.0.89	Definition: Remote Pilot Station	Different in character or other means of compliance	The UK has not adopted the term 'remote pilot station' and has instead adopted the term 'command unit (CU)' meaning "the equipment or system of equipment to control unmanned aircraft remotely as defined in point 32 of Article 3 of Regulation (EU) 2018/1139 which supports the control or the monitoring of the unmanned aircraft during any phase of flight, with the exception of any infrastructure supporting the command and control (C2) link service".	
C1 1.0.95	Definition: RPA Observer	More exacting or exceeds	The UK has not adopted the term 'RPA observer' and has instead adopted the terms 'unmanned aircraft observer' and 'airspace observer' as defined in Article 2(24) and Article 2(25) (respectively) of Regulation (EU) 2019/947. These definitions differentiate between an individual that monitors the RPA to ensure that it remains within VLOS, and an individual that visually scans the airspace to identify airborne hazards. The definitions do not describe the trained or competent status of the individual.	
C1 1.0.113	Visual line-of-sight (VLOS) operation	Different in character or other means of compliance	The UK definition includes the context of VLOS operation, highlighting that it allows "the remote pilot to control the flight path of the unmanned aircraft in relation to other aircraft, people and obstacles for the purpose of avoiding collisions".	
C3 3.2.2	Standard	Different in character or other means of compliance	UK SERA.3210(b) states that an aircraft that is aware that the manoeuvrability of another aircraft is impaired shall give way to that aircraft. It further requires priority for aircraft with impaired manoeuvrability.	
C3 3.2.2.4	Standard	Less protective or partially implemented or not implemented	UK SERA.3210(c)(3)(i) states that a sailplane overtaking another sailplane may alter its course to the right or to the left.	Difference allows sailplanes to overtake each other on the left as well.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 2: Rules of the Air (10th Edition) (Amendment 46)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C3 3.2.3.2	Standard	Less protective or partially implemented or not implemented	UK regulations specify in point b) to act as far as practicable and in point c) the operation is specified as taxiing or being towed. Rules of the Air Regulations 2015 Rule 14 and Rule 15 permit the following: **Rule 14 Stationary helicopters on offshore or renewable energy installations.** Notwithstanding SERA.3215 a helicopter may, when stationary on an offshore or renewable energy installation, switch off the red anti-collision light as long as that is done in accordance with a procedure contained in the operations manual of the helicopter operator as a signal to ground personnel that it is safe to approach the helicopter for the purpose of embarkation or disembarkation of passengers or the loading or unloading of cargo. **Rule 15 Failure of anti-collision and navigation lights** (1) If any light required to be displayed by SERA.3215 fails during flight at night and cannot be immediately repaired or replaced, the aircraft must land as soon as it can safely do so, unless authorised by the appropriate air traffic control unit to continue its flight. (2) An aircraft may continue to fly during the day in the event of a failure of an anticollision light provided the light is repaired at the earliest practicable opportunity.	The period for the requirement is defined as "at night" as defined in UK SERA Art 2(97).
C3 3.2.5	Standard	Less protective or partially implemented or not implemented	UK SERA. 3225 (c) & (d) specify that points c) & d) do not apply to balloons. UK SERA.3225 (c) specifies that point c) applies unless otherwise "indicated or instructed by ATC".	UK SERA. 3225 does not specify that these provisions apply "whether or not within an aerodrome traffic zone".
C3 3.3.1.2	Standard	Different in character or other means of compliance	(e) UK Reg. (EU) No. 923/2012, SERA.4001(b)(5) requires a flight plan to be submitted for any flight across international borders, unless otherwise prescribed by the States concerned. In addition, UK Reg. (EU) No. 923/2012, SERA.4001(b)(6) requires a flight plan to be submitted for any flight planned to operate at night, if leaving the vicinity of an aerodrome.	
C3 3.9 Table3-1	Standard	Different in character or other means of compliance	In the UK, in addition to the minima specified, VFR flight is permitted by aircraft in class D airspace at or below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher, if the aircraft is flown in accordance with the following conditions: a) during day; b) at an indicated airspeed of 140 KT or less to give adequate opportunity to observe other traffic or any obstacles in time to avoid a collision; and, c) remaining clear of cloud, with the surface in sight and: i) for aircraft other than helicopters, with a flight visibility of at least 5 KM; ii) for helicopters, with a flight visibility of at least 1500 M. In addition to the minima specified against footnote **(a)(1), the UK specifies that flight visibilities in airspace classes F and G may be reduced, during day only, to not less than 1500 M for flights operating at an indicated airspeed of 140 KT or less to give adequate opportunity to observe other traffic or any obstacles in time to avoid a collision.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 2: Rules of the Air (10th Edition) (Amendment 46)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C4 4.6	Standard	More exacting or exceeds	b) UK SERA. 5005(f)(2) requires a VFR flight not to fly at a height less than 150 M (500 FT) above the ground or water, or 150 M (500 FT) above the highest obstacle within a radius of 150 M (500 FT) from the aircraft.	SERA.3105 requires that aircraft shall not be flown over the congested areas of cities, towns or settlements or over an open-air assembly of persons, unless at such a height as will permit. In the event of an emergency arising, a landing to be made without undue hazard to persons or property on the surface.

Annex 3: Meteorological Services For International Air Navigation (20th Edition) (Amendment 79)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C1 1.1.83	Definition: VOLMET	Less protective or partially implemented or not implemented	UK VOLMET and D-VOLMET provides current aerodrome routine meteorological reports only.	System designed to give rapid refresh of current conditions at key aerodromes in high density air traffic airspace.
C3 3.2.1	Standard	Different in character or other means of compliance	Differences in specifications for World Area Forecast System (WAFS) Upper-Air (En-route). SIGWX forecast information, and in the appearance of WAFS SIGWX Forecast Charts produced by World Area Forecast Centre London - WAFC London (Appendix 2, Paragraphs 1.3.2, 1.3.3, and 1.3.4). Users should refer to and be familiar with UK AIC P 168/2024 (Changes to SIGWX Forecasts).	Difference will be addressed, and the specifications will become aligned with Annex 3, Amendment 82 (envisaged applicability November 2025).
C4 4.1.6	Recommend ation	Less protective or partially implemented or not implemented	Automated equipment for the measurement of visibility and runway visual range is not mandatory at aerodromes with runways intended for Category I instrument approach and landing operations. At these aerodromes human observed visibility and runway visual range are reported. Such aerodromes will not have fully integrated automatic systems for acquisition, processing, dissemination, and display in real time of the meteorological parameters affecting landing and take-off operations.	Installation and use of equipment for measuring height of cloud base is mandatory at licensed aerodromes with precision approach runways.
C4 4.6.5.1	Standard	Different in character or other means of compliance	Vertical visibility is not measured in the UK.	In the UK when the sky is obscured 'VV///' is reported in lieu of cloud information.
C5 5.3.1	Recommend ation	Less protective or partially implemented or not implemented	Secondary Surveillance Radar (SSR) Mode S within Europe does not support the downlinking of automated routine observations sent via ADS in the Shanwick Oceanic Area are made every 30 minutes.	Current European Mode S Downlink Aircraft Parameters do not include the meteorological data block. WMO AMDAR data provides automated en-route meteorological observations.
C5 5.3.4	Standard	Less protective or partially implemented or not implemented	Secondary Surveillance Radar (SSR) Mode S within Europe does not support the downlinking of automated routine observations.	Aircraft reports in the climb-out phase are obtained via AMDAR.
C6 6.2.6	Recommend ation	Less protective or partially implemented or not implemented	UK issues TAFs of 2-5 hour validity to aerodromes that are due to close.	TAFs with validity periods of less than 6 hours are issued to aerodromes that are due to close in order to reduce the number of TAF cancellations.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 3: Meteorological Services For International Air Navigation (20th Edition) (Amendment 79)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C6 6.5.2 and 6.5.3	Standard	Less protective or partially implemented or not implemented	AIRMET information is not issued in the UK. GAMET area forecasts in plain language are issued.	AIRMET information is not issued as the specified phenomena are covered by SIGMET where applicable and appropriate warnings in low-level area forecasts.
C7 7.2.1 to 7.2.3	Standard	Less protective or partially implemented or not implemented	AIRMET information is not issued in the UK.	AIRMET information is not issued as the specified phenomena are covered by SIGMET where applicable and appropriate warnings in low-level area forecasts.
C7 7.3.2	Recommendation	Less protective or partially implemented or not implemented	Aerodrome warnings in the UK are issued at specified times and are not cancelled or amended between issue times, except at certain aerodromes.	For operational reasons at certain aerodromes warnings will be issued, cancelled or amended 24/7 as required.
C11 11.5	Standard	Less protective or partially implemented or not implemented	UK D-VOLMET reflects the content of UK VHF VOLMET broadcasts and does not provide TAF, SIGMET, special air-reports or AIRMET.	The D-VOLMET service is provided using the same equipment as VHF VOLMET.
C11 11.6.1	Standard	Less protective or partially implemented or not implemented	UK VOLMET provides current aerodrome routine meteorological reports (METAR) only.	System designed to give rapid refresh of current conditions at key aerodromes in high density air traffic airspace.
C11 11.6.2	Standard	Less protective or partially implemented or not implemented	UK does not broadcast VOLMET on high frequencies (HF).	The UK only broadcasts VOLMET on VHF broadcasts.

Annex 4: Aeronautical Charts (11th Edition) (AMDT 61)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C1 1.1.4	Definition Aerodrome reference point	More exacting or exceeds	In the UK the aerodrome reference point is the geographical location of the aerodrome and the centre of its traffic zone where an ATZ is established.	
C1 1.1.9	Definition Air transit route	Less Protective or partially implemented or not implemented	Heli Route' or Helicopter Main Route' (HMR) are used in place of Air transit route.	
C1 1.1.62	Definition Instrument approach procedure	More exacting or exceeds	The UK definition includes instrument approach procedure classifications.	
C2 2.1.8	Recommendation	Different in character or other means of compliance	In the UK the basic sheet size of the charts is 297 MM x 210 MM (A4).	Reduction in sheet size would reduce the area of coverage and the amount of data published.
C4 4.1 - 4.10.4	Standard	Less protective or partially implemented or not implemented	The UK does not produce an Aerodrome Obstacle Chart ICAO Type B.	A demand for this chart has not been identified in the UK. User requirement is satisfied by the current content of the AIP. There are no current plans to produce this chart.
C5 5.1 - 5.8.8	Standard	Less protective or partially implemented or not implemented	The UK does not produce an Aerodrome Terrain and Obstacle Chart - ICAO (Electronic).	A demand for this chart has not been identified in the UK.
C7 7.1 – 7.9.4.2	Standard	Less protective or partially implemented or not implemented	The UK does not produce the En-route Chart - ICAO.	Information is published in tabular format in UK AIP ENR 3. Similar charts produced by industry are more appropriate for use by aircraft operators.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 4: Aeronautical Charts (11th Edition) (AMDT 61)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C8 8.1 - 8.9.4.1.1	Standard	Less protective or partially implemented or not implemented	The UK does not produce the Area Chart - ICAO.	Requirement fulfilled by other means - SID and STAR charts, Approach charts and 1:500000 charts.
C9 9.9.3.1	Standard	Different in character or other means of compliance	Only Area Minimum Altitude (AMA) are shown.	The extent of the Minimum Sector Altitude (MSA) does not sufficiently take account of the complete route.
C9 9.9.4.2	Recommendation	Different in character or other means of compliance	The communication failure procedure is not shown on SID Charts. Communication failure procedures are shown on ATC Surveillance Minimum Altitude Charts.	UK will review its administrative arrangements and make amendments as applicable.
C10 10.9.3.1	Standard	Different in character or other means of compliance	Only Area Minimum Altitude (AMA) are shown.	The extent of the Minimum Sector Altitude (MSA) does not sufficiently take account of the complete route.
C10 10.9.4.2	Recommendation	Different in character or other means of compliance	The communication failure procedure is not shown on STAR Charts. Communication failure procedures are shown on ATC Surveillance Minimum Altitude Charts.	UK will review its administrative arrangements and make amendments as applicable.
C11 11.4	Recommendation	More exacting or exceeds	In the UK the basic sheet size of the charts is 297 MM x 210 MM (A4).	Reduction in sheet size would reduce the area of coverage and the amount of data published.
C11 11.8.2	Standard	Different in character or other means of compliance	The magnetic variation shown only agrees with non-VOR procedures.	The set value of the VOR is used in the design of a VOR procedure and this could be different from the local magnetic variation value.
C11 11.10.2.2	Recommendation	Less protective or partially implemented or not implemented	Only a generic set of obstacles for the area are shown, which does not always include the controlling obstacles.	For chart clarity purposes.
C11 11.10.4.3	Recommendation	Less protective or partially implemented or not implemented	The Final Approach Fix or Point (FAF/FAP) geographical co-ordinates are not shown.	A requirement for publication of these co-ordinates has not been identified in the UK.
C11 11.10.6.3	Standard	Different in character or other means of compliance	f) Transition altitude information is not shown within the profile area.	
C11 11.10.7.1	Standard	Less protective or partially implemented or not implemented	Aerodrome operating minima is not shown on UK Instrument Approach Charts.	UK publishes the Obstacle Clearance Altitude and Obstacle Clearance Height (OCA/H), and instructions on how to calculate the Aerodrome Operating Minima in the UK AIP AD 1.1 subsection 4.
C11 11.10.7.2	Standard	Less protective or partially implemented or not implemented	Only basic CAT D OCA(H) are shown.	Work is currently underway to identify the measures required to achieve compliance with this standard.
C11 11.10.8.5	Standard	Less protective or partially implemented or not implemented	In accordance with PANS-OPS (Doc 8168), only the approach descent gradient is shown on UK AIP non-precision instrument approach charts.	Fully compliant for RNAV IAPs when BaroVNAV and/or SBAS elements have been provided on the chart.
C11 11.10.8.9	Standard	Less protective or partially implemented or not implemented	This Standard has not been implemented in the UK as there are no approach procedures authorised in the UK for simultaneous operations.	Implementation of the provision will be reviewed should simultaneous operations be introduced in the UK.
C11 11.10.9	Standard	Less protective or partially implemented or not implemented	Only RNAV coding data is shown.	Non RNAV procedures were designed pre RNAV standards and/or will not conform to coding standards. Therefore the UK has taken the position to not supply appropriate data for non RNAV procedures.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 4: Aeronautical Charts (11th Edition) (AMDT 61)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C12 12.1 to 12.10.6.2	Standard	Less protective or partially implemented or not implemented	The UK does not produce the Visual Approach Chart - ICAO.	Established Visual Approach Procedures do not exist in UK.
C13 13.6.2	Recommendation	Less protective or partially implemented or not implemented	The location where the wing tips may be safely extended is not shown on charts.	It is not anticipated that aeroplanes with folding wing tips will be operating to/from UK aerodromes before 2023 and the recommendation will be reviewed ahead of this time.
C14 14.6.2	Recommendation	Less protective or partially implemented or not implemented	The location where the wing tips may be safely extended is not shown on charts.	It is not anticipated that aeroplanes with folding wing tips will be operating to/from UK aerodromes before 2023 and the recommendation will be reviewed ahead of this time.
C16 16.1 to 16.9.7.2	Standard	Less protective or partially implemented or not implemented	The UK does not produce the World Aeronautical Chart ICAO 1:1 000 000.	There is no operational requirement for this chart. ICAO Chart 1:500 000 is produced instead.
C17 17.4.3	Recommendation	Different in character or other means of compliance	Chart is sold flat.	Chart user folds at own discretion.
C17 17.7.11.1	Recommendation	Less Protective or partially implemented or not implemented	Only hypsometric tints and contours shown.	Not applicable to UK topography.
C17 17.7.12.2	Standard	Less Protective or partially implemented or not implemented	Limits of tree growth not shown.	Not applicable to UK topography.
C18 18.1 to 18.8.5	Standard	Less Protective or partially implemented or not implemented	The UK does not produce the Aeronautical Navigation Chart - ICAO Small scale.	This Chart is not produced in the UK as there is either no operational requirement for the chart, or equivalent charts which are more appropriate for the required use are made available by commercial organisations.
C19 19.1 to 19.9.2	Standard	Less Protective or partially implemented or not implemented	The UK does not produce the Plotting Chart - ICAO.	There is no operational requirement for the chart in the UK. Aircraft Operators use large format or Electronic En-Route charts provided by commercial organizations. These are more appropriate for the required use.
C20 20.1 to 20.6	Standard	Less Protective or partially implemented or not implemented	The UK does not produce the Electronic Aeronautical Chart Display - ICAO.	Products provided by commercial service providers are more suitable for use by aircraft operators.

Annex 5: Units of Measurement to be Used in Air and Ground Operations (5th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
NIL				

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 1: Operation of Aircraft (International Commercial Air Transport - Aeroplanes) (12th Edition) (AMDT 48)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C3 3.1.4	Standard	Different in character or other means of compliance	The UK does not give any formal status to flight operations officers/flight dispatchers.	The UK requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members.
C3 3.1.5	Standard	Less protective or partially implemented or not implemented	The UK does not give any formal status to flight operations officers/flight dispatchers.	The UK requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members.
C3 3.3.1	Recommend ation	Less protective or partially implemented or not implemented	The UK only requires operators of aeroplanes in excess of 27,000 KG to establish FDM programmes.	The term Flight Data Monitoring is used instead of Flight Data Analysis.
C3 3.5.1	Standard	Less protective or partially implemented or not implemented	The scope of CAT.GEN.MPA.205 – aircraft tracking - is essentially restricted to aeroplanes in excess of 27,000 KG.	Requiring an aircraft tracking capability for lighter aeroplanes is considered to be disproportionate with regards to the cost and expected safety benefit.
C3 3.5.2, 3.5.3	Standard & Recommend ation	Less protective or partially implemented or not implemented	The UK only requires tracking of such aeroplanes with a first individual CofA on or after 16 December 2018.	
C4 4.2.1.3.1	Standard	Different in character or other means of compliance	The operator remains responsible that the contracted services comply with the applica-ble requirements and that the aviation safety hazards associated with contracted services or products are considered by the operator's management system. However, it is not specified that the operator shall develop poli-cies and procedures for third parties.	
C4 4.2.8.1.1	Standard	Less protective or partially implemented or not implemented	The regulations currently only provide operational credits for HUDs and EVS.	The approval for additional operational credits will be introduced through AWO rule changes.
C4 4.2.8.3	Standard	Less protective or partially implemented or not implemented	The new approach classifications have not yet been transposed into UK regulations.	Alignment will be considered within future rule making activities.
C4 4.2.8.6	Recommen-dation	Less protective or partially implemented or not implemented	The UK allows Met Visibility to be converted to RVR. No limiting visibility is prescribed.	
C4 4.3.3.1	Standard	Less protective or partially implemented or not implemented	In the UK, the commander is not required to sign the Operational Flight Plan (OFP). An OFP is not required for operations under VFR of other-than-complex motor-powered aero-plane taking off and landing at the same aer-odrome or operating site.	Alignment will be considered within future rule making activities.
C4 4.3.4.1.2	Standard	Different in character or other means of compliance	UK rules allow 2 hours for ETOPS (EDTO not yet implemented).	
C4 4.3.4.1.3	Standard	More exacting or exceeds	CAT.OP.MPA.185 (a) requires a period commencing one hour before and ending one hour after the estimated time of arrival at the aerodrome.	
C4 4.3.4.3.1	Standard	More exacting or exceeds	UK ANO rules require a period commencing two hours before and ending two hours after the estimated time of arrival at the aero-drome.	
C4 4.3.4.4	Standard	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard.	Alignment will be considered within fu-ture rule making activities.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 1: Operation of Aircraft (International Commercial Air Transport - Aeroplanes) (12th Edition) (AMDT 48)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C4 4.3.6.4	Recommendation	Less protective or partially implemented or not implemented	The UK has not adopted this Recommendation.	
C4 4.3.7.2.1	Standard	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard but rule changes are under development.	
C4 4.3.10.1	Recommendation	Less protective or partially implemented or not implemented	The recommendation will be considered in the scope of rule making for the implementation of the EDTO standards.	
C4 4.5.5	Standard	Different in character or other means of compliance	The operator specifies the procedure in the OM which the Pilot in Command is obliged to comply with in accordance with CAT.GEN.MPA.105 (a)(8).	
C4 4.6.1, 4.6.2	Standard	Different in character or other means of compliance	The UK does not give any formal status to flight operations officers/flight dispatchers.	
C4 4.7.1.1, 4.7.1.2, 4.7.2.1 to 4.7.2.3.1 and 4.7.2.4 to 4.7.2.6	Standard	Less protective or partially implemented or not implemented	The UK has not yet adopted the Standard for EDTO which will be the subject of future rule making and implementation.	The UK uses ETOPS procedures.
C4 4.7.2.7	Recommendation	Less protective or partially implemented or not implemented	The UK has not adopted this Recommendation.	The UK uses ETOPS procedures.
C4 4.9.2	Standard	Less protective or partially implemented or not implemented	Under UK Reg.(EU) 965/2012, the maximum certificated take-off mass (MCTOM) is not stipulated.	
C6 6.1.5	Standard	Less protective or partially implemented or not implemented	The UK has not ratified Article 83 bis but would follow this Standard if required.	
C6 6.2.2.1	Standard	Less protective or partially implemented or not implemented	Only applied to large aeroplanes with a first individual CofA on or after 18 February 2020 for lavatory waste receptacles, and 18 May 2019 for portable fire extinguishers.	
C6 6.3.1.1.1	Standard	Different in character or other means of compliance	CAT.IDE.A.190 (a)(3) applies to multi-engine turbine-powered aeroplanes with an MCTOM of 5700 KG or less with a MOPSC of more than 9. CAT.IDE.A.190 (b)(5) is applicable to aeroplanes with an individual first CofA on or after 1 January 2016. CAT.IDE.A.191 (light weight FDR) applies to turbine-engine aeroplanes with MCTOM of 2250 KG or more, or aeroplanes with a MOPSC of more than 9 not covered under CAT.IDE.A.190, and first issued with an individual CofA on or after 5 September 2022.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 1: Operation of Aircraft (International Commercial Air Transport - Aeroplanes) (12th Edition) (AMDT 48)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C6 6.3.1.1.2	Recommendation	Different in character or other means of compliance	ANO 2016 and CAT.IDE.A.190 (a)(3) applies to multi-engine turbine-powered aeroplanes with an MCTOM of 5700 KG or less with a MOPSC of more than 9. CAT.IDE.A.190 (b)(5) is applicable to aeroplanes with an individual first CofA on or after 1 January 2016. CAT.IDE.A.191 (light weight FDR) applies to turbine-engine aeroplanes with MCTOM of 2250 KG or more, or aeroplanes with a MOPSC of more than 9 not covered under CAT.IDE.A.190, and first issued with an individual CofA on or after 5 September 2022 not covered under CAT.IDE.A.190, and first issued with an individual CofA on or after 5 September 2022.	
C6 6.3.1.1.3	Standard	More exacting or exceeds	CAT.IDE.A.190 (a)(1) applies to aeroplanes with an individual CofA after 1 June 1990 and MCTOM of more than 5700 KG. CAT.IDE.A.190 (a)(2) applies to turbine-engined aeroplanes with an individual CofA before 1 June 1990 and MCTOM of more than 5700 KG.	
C6 6.3.1.1.4	Standard	Different in character or other means of compliance	ANO 2016 and CAT.IDE.A.190 (a)(1) applies to aeroplanes with an individual CofA after 1 June 1990 and MCTOM of more than 5700 KG. CAT.IDE.A.190 (a)(2) applies to turbine-engined aeroplanes with an individual CofA before 1 June 1990 and MCTOM of more than 5700 KG.	
C6 6.3.1.1.5	Recommendation	Different in character or other means of compliance	ANO 2016 applies to aeroplanes with an individual CofA on or after 1 June 1990 and CAT.IDE.A.190 (a)(3) applies to aeroplanes with an individual CofA on or after 1 April 1998.	
C6 6.3.1.1.7	Recommendation	More exacting or exceeds	CAT.IDE.A.190 (a) captures all turbine-engined aeroplanes with an individual CofA before 1 June 1990 and MCTOM of more than 5700 KG.	
C6 6.3.1.1.8, 6.3.1.1.9	Standard & Recommendation	More exacting or exceeds	CAT.IDE.A.190 (a)(2) applies to all turbine-engined aeroplanes with a MCTOM of over 5700 KG and first issued with an individual CofA before 1 June 1990 whatever the date of prototype certification.	
C6 6.3.1.1.10	Standard	Less protective or partially implemented or not implemented	CAT.IDE.A.190 (a)(1) applies to all aeroplanes with a MCTOM of over 5700 KG with an individual CofA issued on or after 1 June 1990. However, in the case where the aeroplane was first issued an individual CofA between 1 January 2005 and 1 January 2016, AMC2 CAT.IDE.A.190 is applicable but does not specify all of the first 78 parameters listed in table A8-1.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 1: Operation of Aircraft (International Commercial Air Transport - Aeroplanes) (12th Edition) (AMDT 48)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C6 6.3.1.1.11 6.3.1.1.12	Standard & Recommendation	More exacting or exceeds	CAT.IDE.A.190 (a)(1) applies to all aeroplanes with a MCTOM of over 5700 KG and first issued with an individual CofA on or after 1 June 1990. AMC1.2 CAT.IDE.A.190 is applicable to aeroplanes first issued with an individual CofA on or after 1 January 2023.	AMC1.2 CAT.IDE.A.190 specifies the 82 parameters listed in table A8-1.
C6 6.3.1.2	Standard	Less protective or partially implemented or not implemented	Not specifically stated but CAT.IDE.A.190 requires that the FDR uses a digital method of recording and storing the data, hence CAT.IDE.A.190 excludes de facto engraving metal foil and photographic film.	
C6 6.3.1.3	Standard	More exacting or exceeds	The minimum recording duration for the FDR is 25 hours for aeroplanes other than those referenced in 6.3.1.1.5. For aeroplanes referenced in 6.3.1.1.5, the minimum recording duration is 10 hours.	
C6 6.3.2.1.1, 6.3.2.1.2, and 6.3.2.3.3	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard/ Recommendation.	Alignment will be considered within future rule making activities.
C6 6.3.2.4.2	Standard	More exacting or exceeds	The requirement is for aeroplanes with an individual first CofA from 5 September 2022.	
C6 6.3.2.4.3	Recommendation	Less protective or partially implemented or not implemented	The requirement is for aeroplanes with an individual first CofA from 5 September 2022.	
C6 6.3.3.1.1	Standard	More exacting or exceeds	The requirement is for aeroplanes with an individual first CofA from 8 April 2014.	
C6 6.3.3.1.2, 6.3.3.1.3	Standard & Recommendation	Less protective or partially implemented or not implemented	The requirement is for aeroplanes with an individual first CofA from 8 April 2014 but no retrofit or update is required.	
C6 6.3.4.1.1, 6.3.4.1.2, 6.3.4.2, 6.3.4.3, 6.3.5.4	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard/ Recommendation.	Alignment will be considered within future rule making activities.
C6 6.3.5.5.1	Recommendation	Different in character or other means of compliance	Aeroplanes required to be fitted with a FDR and CVR may instead be fitted with combination recorders.	
C6 6.3.5.5.2	Standard	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard but aeroplanes required to be fitted with a FDR and CVR may instead be fitted with combination recorders.	Alignment will be considered within future rule making activities.
C6 6.3.6.1	Standard	Different in character or other means of compliance	CAT.GEN.MPA.210 is applicable to aeroplanes with MCTOM of over 27,000 KG with a MOPSC of more than 19 and all aeroplanes with a MCTOM of more than 45,500 KG. CAT.GEN.MPA.210 is applicable to such aeroplanes with a CofA first issued on or after 1 January 2023.	The means for accurately locating the point of end of flight after an accident required by CAT.GEN.MPA.210 will, as a secondary benefit, also allow quick retrieval of flight recorder data.
C6 6.3.6.2	Standard	Different in character or other means of compliance	CAT.GEN.MPA.210 is also applicable to aeroplanes with MCTOM of over 45,500 KG and less than 19 pax. CAT.GEN.MPA.210 is applicable to every aeroplane with a CofA first issued on or after 1 January 2023.	The means for accurately locating the point of end of flight after an accident required by CAT.GEN.MPA.210 will, as a secondary benefit, also allow quick retrieval of flight recorder data.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 1: Operation of Aircraft (International Commercial Air Transport - Aeroplanes) (12th Edition) (AMDT 48)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C6 6.5.2.1	Standard	Less protective or partially implemented or not implemented	For aeroplanes under CAT.IDE.A.285, carriage of life jackets when flying en route over water beyond gliding distance from the shore, in the case of all other land planes (not operated in accordance with 5.2.9 or 5.2.10) not implemented.	
C6 6.5.3.1	Standard	Less protective or partially implemented or not implemented	For aeroplanes under CAT.IDE.A.285, the ULD at (c) might not be fitted if the aeroplane is equipped with robust and automatic means to accurately determine, following an accident where the aeroplane is severely damaged, the location of the point of end of flight.	
C6 6.12	Standard	Different in character or other means of compliance	Management of cosmic radiation is conducted in accordance with the Air Navigation (Cosmic Radiation: protection of Air Crew and Space Crew and Consequential Amendments) Order 2019 and equipment is not necessarily carried on board the aircraft.	
C6 6.18.1	Standard	Different in character or other means of compliance	The UK has currently adopted the EASA implementation requirements which are intended to meet the same objective as 6.18.1 'to establish the location of an accident site within 6 NM radius'.	Alignment will be considered within future rule making activities.
C6 6.18.2	Recommend ation	Different in character or other means of compliance	The UK has not yet adopted this Recommendation.	Alignment will be considered within future rule making activities.
C6 6.18.3	Standard	Different in character or other means of compliance	The provision of position information will be dependent on how that information is derived.	
C6 6.19.2	Recommend ation	Less protective or partially implemented or not implemented	The UK has not adopted this Recommendation.	
C6 6.20.2, 6.20.3, 6.22.1, 6.22.2, 6.24	Standard & Recommend ation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard/ Recommendation.	Alignment will be considered within future rule making activities.
C8 8.2.1	Standard	Less protective or partially implemented or not implemented	UK requirements do not address the human factors principles in Part M sub part G and Part CAMO.	The CAMO must have a Continuing Airworthiness Maintenance Exposition which is equivalent to a Maintenance Control Manual.
C8 8.3.1	Standard	Less protective or partially implemented or not implemented	Part M Sub part G, Part CAMO and Part CAO do not observe Human Factors principles in the design of the Maintenance Programme.	
C8 8.3.2	Standard	Less protective or partially implemented or not implemented	The requirements do not explicitly state that 'Copies of all amendments shall be furnished promptly to all organizations or persons to whom the manual has been issued".	
C8 8.4.2	Standard	More exacting or exceeds	The UK requires the records to be retained for 2 years.	
C8 8.8.2, 8.8.3	Standard	Less protective or partially implemented or not implemented	For CAT operations maintenance release must be completed by an approved maintenance organisation.	
C10	Standard	Less protective or partially implemented or not implemented	The UK does not give any formal status to flight operations officers/flight dispatchers.	The UK requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 1: Operation of Aircraft (International Commercial Air Transport - Aeroplanes) (12th Edition) (AMDT 48)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C11 11.4.3	Recommendation	Less protective or partially implemented or not implemented	The UK only requires the Journey Log Book to be retained for three months.	
C12 12.4	Standard	More exacting or exceeds	For CAT operations, Cabin Crew are required to hold a CC Attestation following the successful completion of the Initial training required by UK Reg.(EU) 1178/2011.	
C13 13.2.4	Recommendation	Less protective or partially implemented or not implemented	The UK has not mandated this Recommendation.	It is not considered practical to implement this Recommendation on some smaller aircraft.
C13 13.6.1	Recommendation	Less protective or partially implemented or not implemented	The UK does not currently prescribe that specialised means of attenuating and directing the blast should be provided for use in the least-risk bomb location.	
C15 15.2.1	Standard	More exacting or exceeds	Any provision of flight manual information will be provided through aeroplane certification.	

Annex 6 Part 2: Operation of Aircraft (International General Aviation - Aeroplanes) (11th Edition) (AMDT 40)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
2.2.3.4.2 & 2.2.3.4.3	Standard	More exacting or exceeds	UK ANO rules require a period commencing two hours before and ending two hours after the estimated time of arrival at the aerodrome.	
2.4.2.2	Standard	More exacting or exceeds	In order to operate within UK airspace, Operators are also required to carry a functioning active Carbon Monoxide detector, capable of alerting flight crew by aural and/or visual warnings in affected piston engine aircraft, when operating with passengers onboard who do not hold a recognised flight crew qualification.	Carbon Monoxide poisoning has been a factor in multiple General Aviation accidents in the UK. To address this the CAA has published a Safety Directive (SD 2024/001 V2), which establishes the mandatory carriage of a functioning active CO detector, applicable to both UK registered and non-UK registered aircraft operating in UK airspace, Operators must review the Safety Directive to determine if it is applicable to their operation. It is the intention of the CAA to incorporate this Safety Directive into legislation at an appropriate time in the future.
2.4.2.3	Standard	Less protective or partially implemented or not implemented	Only applied to large aeroplanes with a first individual CofA on or after 18 February 2020 for lavatory waste receptacles, and 18 May 2019 for portable fire extinguishers.	Alignment will be considered within future rule making activity.
2.4.3.2	Recommendation	Different in character or other means of compliance	The UK rules do not distinguish between VFR flights and VFR controlled flights.	
2.4.11.2, 2.4.11.3	Recommendation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Recommendation.	Alignment will be considered within future rule making activity.
2.4.15	Standard	Less protective or partially implemented or not implemented	The UK has not yet fully adopted this Standard.	The UK intends to develop appropriate regulations through a rule making activity.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 2: Operation of Aircraft (International General Aviation - Aeroplanes) (11th Edition) (AMDT 40)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
2.4.16.1.1.1	Recommendation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Recommendation.	Alignment will be considered within future rule making activity.
2.4.16.1.1.2, 2.4.16.1.1.3	Standard & Recommendation	More exacting or exceeds	NCC.IDE.A.165 is applicable to aeroplanes with an individual first Cof A issued on or after 1 January 2016.	
2.4.16.2.1	Recommendation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Recommendation.	Alignment will be considered within future rule making activity.
2.4.16.2.3.1	Standard	More exacting or exceeds	The UK requires aeroplanes with a MCTOM of over 27,000 KG and a first individual CofA issued on or after 1 January 2021 to retain the information for the preceding 25 hours.	
2.4.16.2.3.2, 2.4.16.3.1.2 & 2.4.16.3.1.3	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard/Recommendation.	Alignment will be considered within future rule making activity.
2.4.17.2.2 & 2.4.17.3	Standard	Less protective or partially implemented or not implemented	The UK does not require a specific approval for use of EFB in non-commercial operations.	
2.4.18	Standard	Less protective or partially implemented or not implemented	The UK has not ratified Article 83 bis but would follow these Standards if required.	
2.6.2.2	Standard	More exacting or exceeds	The UK requires records to be retained for 2 years.	
3.1.2	Recommendation	Less protective or partially implemented or not implemented	The UK has not yet adopted this Standard/Recommendation.	Alignment will be considered within future rule making activity.
3.4.2.8	Standard	Less protective or partially implemented or not implemented	The UK has not yet fully adopted this Standard but relies on individual crew management of fatigue.	Alignment will be considered within future rule making activity.
3.4.3.7.1	Recommendation	Less protective or partially implemented or not	The UK has not implemented this Recommendation.	Alignment will be considered within future rule making activity.
3.6.3.1.1.1, 3.6.3.1.1.2, 3.6.3.1.1.3, 3.6.3.2.1.2	Standard & Recommendation	Less protective or partially implemented or not implemented	NCC.IDE.A.165 is applicable to aeroplanes with an individual first Cof A issued on or after 1 January 2016.	Alignment will be considered within future rule making activity.
3.6.3.2.1.1	Standard	More Exacting or Exceeds	This Standard is applied to turbine aeroplanes with a MCTOM of more than 2250 KG.	Alignment will be considered within future rule making activity.
3.6.3.2.1.3	Recommendation	Less protective or partially implemented or not implemented	The UK has not implemented this Recommendation.	Alignment will be considered within future rule making activity.
3.6.9.1	Recommendation	More exacting or exceeds	The UK requires all turbine-engined aeroplanes of more than 5700 KG or a MOPSC of more than 19 to be fitted with ACAS.	Alignment will be considered within future rule making activity.
3.8.5.2, 3.8.5.3	Standard	More exacting or exceeds	In the UK an AME can only release a Non Part 21 aircraft on their license.	UK AME cannot release a large turbojet aircraft. Alignment will be considered within future rule making activity.
3.10	Recommendation	Less protective or partially implemented or not implemented	The UK does not give any formal status to flight operations officers/flight dispatchers. The UK does not specify the duties and training associated with the employment of flight operations officers / flight dispatchers.	Alignment will be considered within future rule making activity.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 3: Operation of Aircraft (International Operations - Helicopters) (11th Edition) (AMDT 24)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Section 2				
1.1.4	Standard	Different in character or other means of compliance	The UK does not give any formal status to flight operations officers/flight dispatchers.	The UK requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members.
1.1.5, 2.6.1, 2.6.2	Standard	Less protective or partially implemented or not implemented	The UK does not give any formal status to flight operations officers/flight dispatchers.	The UK requires an operator to ensure that the operations manual contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members.
1.3.1	Recommendation	Less protective or partially implemented or not implemented	The UK only requires operators of helicopters conducting CAT operations under a Helicopter Offshore Operations Specific Approval to establish FDM programmes.	
2.2.8.1.1, 2.2.8.1.2	Standard	Less protective or partially implemented or not implemented	The UK currently only provides operational credits for HUDs and EVS.	The approval for additional operational credits will be introduced through AWO rule changes.
2.2.8.1.3	Standard	Less protective or partially implemented or not implemented	Not yet implemented.	The criteria for safe operation of aircraft with operational credit with minima above those related to low visibility operations will be introduced through AWO rule changes.
2.2.8.3	Standard	Less protective or partially implemented or not implemented	The new approach classifications have not yet been transposed into UK regulations.	Alignment will be considered within future rule making activities.
2.2.8.6	Recommendation	Less protective or partially implemented or not implemented	The UK allows Met Visibility to be converted to RVR. No limiting visibility is prescribed.	
2.3.3.1	Standard	Less protective or partially implemented or not implemented	UK regulations do not require the commander to sign the Operational Flight Plan. An OFP is not required for operations under VFR of helicopters with an MCTOM of 3175 KG or less, by day and over routes navigated by reference to visual landmarks in a local area as specified in the operations manual.	Alignment will be considered within future rule making activities.
2.3.4.1.2	Standard	More exacting or exceeds	The UK requires in CAT.OP.MPA.186 (a) a period commencing one hour before and ending one hour after the estimated time of arrival at the aerodrome.	
2.3.4.2.1	Standard	More exacting or exceeds	The UK ANO regulations require a period commencing two hours before and ending two hours after the estimated time of arrival at the aerodrome.	
2.3.4.3.10	Recommendation	Different in character or other means of compliance	Operator's procedures for the use of offshore destination alternate heliports are required to be approved under SPA.HOFO.	
2.3.4.3.15	Recommendation	Less protective or partially implemented or not implemented	No minimum distance between destination and offshore destination heliport is specified.	
2.3.6.2, 2.3.6.3, 2.3.6.3.1, 2.3.6.3.2, 2.3.6.4	Standard	Less protective or partially implemented or not implemented	The UK does not specify duration of fuel/oil reserves for non-Part-21 flights.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 3: Operation of Aircraft (International Operations - Helicopters) (11th Edition) (AMDT 24)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
2.3.7.1 & 2.3.7.6	Standard	Less protective or partially implemented or not implemented	(a) passenger embarking/disembarking is permitted with appropriate precautions. (b) oxygen replenishment is allowed.	
2.3.7.2	Standard	Less protective or partially implemented or not implemented	Alternative means of compliance is given in AMC1 CAT.OP.MPA.195 SPA.HEMS.155	
2.3.7.4	Standard	Less protective or partially implemented or not implemented	(f) and (g) not implemented in the UK.	
2.3.8.2, 4.8.2, 4.8.3, 4.8.4	Standard & Recommendation	Less protective or partially implemented or not implemented	Not implemented for CAT aircraft. There are no pressurised helicopters operated in the UK.	
2.8.1, 2.8.2	Standard	Less protective or partially implemented or not implemented	The UK does not currently permit the use of a FRMS for CAT operations with helicopters.	
3.1.4, 3.4.1, 3.4.2, 3.4.3, 3.4.4	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK does not permit IMC operations in Performance Class 3.	
4.1.5.1, 4.1.5.2, 4.1.5.3, 4.1.5.4	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK has not ratified Article 83 bis but would follow these Standards and Recommended Practice if required.	
4.2.2	Standard	Less protective or partially implemented or not implemented	UK Reg (EU) 965/2012 does not require the carriage of spare electrical fuses in helicopters.	
4.2.2.1	Standard	Less protective or partially implemented or not implemented	The UK only requires this for Large Helicopters with Initial CofA after 18 February 2020 (lavatory) and 18 May 2019 (portable).	
4.3.1.1.2	Standard	More exacting or exceeds	The passenger capacity threshold in CAT.IDE.H.190 (a)(1) is 9 not 19.	
4.3.1.1.3	Recommendation	More exacting or exceeds	The UK requires this as a standard for Public Transport helicopters between 2730 and 7000 KG. Required for CAT helicopters first issued with an individual CofA on or after 1 August 1999.	
4.3.1.1.4	Standard	Less protective or partially implemented or not implemented	Only required for CAT and the scope of CAT.IDE.H.191 covers those helicopters with an individual CofA first issued on or after 5 September 2022.	
4.3.1.1.5	Recommendation	Less protective or partially implemented or not implemented	Only required for CAT Turbine helicopters and the scope of CAT.IDE.H.191 covers those helicopters with an individual CofA first issued on or after 5 September 2022.	
4.3.1.3	Standard	Less protective or partially implemented or not implemented	The UK only requires recorders capable of retaining the information recorded during at least the last 8 hours of their operation for Public Transport operations. For CAT operations only in the case of helicopters first issued with an individual CofA on or after 1 January 2016 is the FDR required to record data for at least the preceding 10 hours.	
4.3.2.3	Standard	Less protective or partially implemented or not implemented	Fully implemented for CAT helicopters with initial CofA after 1 Jan 2016. Other helicopters are required to be equipped with a CVR capable of retaining the information of a duration of only 1 hour or 0.5 hours.	
4.3.3.1.1	Standard	More exacting or exceeds	The data link recording capability is required for CAT helicopters first issued with an individual CofA on or after 8 April 2014.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 3: Operation of Aircraft (International Operations - Helicopters) (11th Edition) (AMDT 24)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
4.3.3.1.2, 4.3.3.1.3	Standard & Recommendation	Less protective or partially implemented or not implemented	The data link recording capability is only required for CAT helicopters first issued with an individual CofA on or after 8 April 2014.	
4.3.4.4	Recommendation	Less protective or partially implemented or not implemented	Partially implemented. FDR documentation is not currently required to be in electronic format.	
4.4.4	Recommendation	Less protective or partially implemented or not implemented	The UK has not implemented this Recommendation for Non-Part-21 aircraft and has partially implemented only for CAT HOFO operations for Part-21 aircraft.	
4.5.2.6, 4.5.2.8	Recommendation	Less protective or partially implemented or not implemented	The UK has not implemented this Recommendation for Public Transport aircraft but the AMC for CAT aircraft is applicable to all helicopters regardless of the date of issuance of the CofA.	
4.5.2.7	Recommendation	Less protective or partially implemented or not implemented	The UK has not implemented this Recommendation for Public Transport aircraft but the AMC for CAT aircraft ensures that all life rafts of more than 40 KG should have remote control deployment.	
4.10.1	Recommendation	Less protective or partially implemented or not implemented	Not required for Public Transport aircraft and only for CAT helicopters with pax seating capability of more than 9.	
4.15.1	Recommendation	More Exacting or Exceeding	The UK has mandated this Recommendation for operations in hostile environment.	
4.16	Standard	Less protective or partially implemented or not implemented	UK Reg. (EU) 965/2012 does not contain rules for SVS and CVS.	UK Reg. (EU) 965/2012 currently only allows operational credits for HUDs and EVS. The approval for additional operational credits will be introduced in the OPS regulation through the AWO rule making activity.
6.3.1	Standard	Less protective or partially implemented or not implemented	The UK does not require operators to observe Human Factors principles in the design and application of the maintenance manual.	
6.3.2	Standard	Less protective or partially implemented or not implemented	Partially implemented. UK requirements do not explicitly describe that 'Copies of all amendments shall be furnished promptly to all organizations or persons to whom the manual has been issued'.	
6.4.2, 6.8.2	Standard	More Exacting or Exceeding	Retaining periods vary but exceed the ICAO requirement.	
8.1, 8.2, 8.3, 8.4, 8.5	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK does not give any formal status to flight operations officers/flight dispatchers. The UK does not specify the duties and training associated with the employment of flight operations officers / flight dispatchers.	The UK requires an operator to ensure that the operations manuals contains instructions and information necessary for operations personnel to perform their duty including training for those other than crew members.
9.4.3	Recommendation	Less protective or partially implemented or not implemented	The UK only requires the Journey Log Book to be retained for 3 months.	
12.4.3.3	Standard	Less protective or partially implemented or not implemented	Not Implemented.	
Section 3				
1.1.5	Recommendation	Less protective or partially implemented or not implemented	Fully implemented for NCC but not explicitly implemented for NCO.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 3: Operation of Aircraft (International Operations - Helicopters) (11th Edition) (AMDT 24)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
2.2.1.1	Standard	Less protective or partially implemented or not implemented	UK regulations currently only provide operational credits for HUDs and EVS. For non-commercial operators, the State of Operator approves the operational credits instead of the State of Registry.	The approval for additional operational credits will be introduced through AWO rule changes.
2.2.1.2	Standard	Less protective or partially implemented or not implemented	The UK currently only provides operational credits for HUDs and EVS.	The approval for additional operational credits will be introduced through AWO rule changes.
2.2.1.3	Standard	Less protective or partially implemented or not implemented	Not Implemented.	The criteria for safe operation of aircraft with operational credit with minima above those related to low visibility operations will be introduced through AWO rule changes.
2.6.2.1	Standard	Less protective or partially implemented or not implemented	Weather conditions, at the heliport of intended landing OR at least one alternate heliport will, at the estimated time of arrival, be at or above the heliport operating minima.	
2.7.1	Standard	More exacting or exceeds	For isolated heliports the minimum weather conditions defined in 2.6.2.2 have to prevail and all the other conditions must be met.	
2.7.2	Standard	Less protective or partially implemented or not implemented	Fully implemented for NCC. Not implemented for NCO flights.	
2.7.3	Standard	Less protective or partially implemented or not implemented	Fully implemented for NCC. Not implemented for NCO flights. Offshore alternatives in a hostile environment may be used.	
2.8.2, 2.8.3.1, 2.8.3.2, 2.8.3.3	Standard	Less protective or partially implemented or not implemented	The UK does not specify duration of fuel/oil reserves for non-Part-21 flights.	
2.8.4	Standard	Less protective or partially implemented or not implemented	The UK does not specify potential contingencies for non Part-21 flights.	
2.10.1, 2.11, 4.5.1	Standard	Less protective or partially implemented or not implemented	NCO.OP.190 contains an alleviation to the availability of oxygen on board. The pilot in command can decide to fly at any altitude without oxygen being available if he is able to determine that this can be done safely without impairment.	
2.10.2, 4.5.2.1	Standard & Recommendation	Less protective or partially implemented or not implemented	Not implemented for NCC & NCO operations.	There are no pressurised helicopters operated in the UK.
2.20	Standard	Less protective or partially implemented or not implemented	Not implemented for NCC flights at a distance from land corresponding to 10 minutes of flight or less or NCO flights within 50 NM from land.	Emergency floatation equipment can be used as another means of compliance.
4.1.3.1	Standard	Less protective or partially implemented or not implemented	The State of Operator is the competent authority for NCC operators and for NCO operators operating aircraft registered in a third country. The UK does not require the carriage of spare electrical fuses in helicopters.	"Certificate of airworthiness" includes any flight manual, performance schedule or other document, whatever its title, incorporated by reference in that certificate relating to the certificate of airworthiness.
4.1.3.2	Standard	Less protective or partially implemented or not implemented	Partially implemented: Only for Large Helicopters with an Initial CofA after 18 Feb 2020 (lavatory) and 18 May 2019 (portable).	
4.1.3.3	Recommendation	Less protective or partially implemented or not implemented	Not specifically required for non Part-21 operators. Specifically implemented only on flights where additional survival equipment is required for NCC & NCO operators.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 3: Operation of Aircraft (International Operations - Helicopters) (11th Edition) (AMDT 24)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
4.2.2.1, 4.2.3	Standard & Recommendation	Less protective or partially implemented or not implemented	Trainable Landing Lamp not required for non-Part-21 aircraft. NCC & NCO aircraft may optionally be fitted with an additional fixed light or lights positioned to give a wide spread of illumination instead.	
4.3.1	Standard	Less protective or partially implemented or not implemented	The floatation equipment requirement for non-Part-21 helicopters on all over water flights is not mandated.	Specified conditions and distances are: For NCC - required beyond 10 minutes flying time from land over a hostile sea area. For NCO - required beyond 50 NM from land over a hostile sea area.
4.3.2.1	Standard	Less protective or partially implemented or not implemented	UK does not mandate the carriage of life-saving rafts and equipment for making Pyrotechnical distress signals for non-Part-21 aircraft but relies on the provision of guidance material on their carriage and use. For NCC & NCO aircraft there are additional provisions for crew survival suits, life-saving equipment and survival equipment.	
4.3.2.4, 4.3.2.5, 4.3.2.6	Recommendation	Less protective or partially implemented or not implemented	The UK has not implemented this Recommendation for non-Part-21 and NCO aircraft. Implemented for all NCC aircraft regardless of the date of issue of the CofA.	
4.7.1.1.1	Standard	Less protective or partially implemented or not implemented	The UK does not mandate carriage of this type of recorder for non-Part-21 and NCO aircraft. The parameters recorded may be reduced for some NCC aircraft.	
4.7.1.1.2, 4.7.1.1.3, 4.7.2.1.2	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK does not mandate carriage of this type of recorder in these circumstances.	
4.7.2.1.1	Standard	Less protective or partially implemented or not implemented	The UK does not mandate carriage of this type of recorder for non-Part-21 and NCO aircraft. It is mandated for NCC aircraft with a first CofA on or after 1 January 2016.	
4.7.3.1.2, 4.7.3.1.3	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK does not mandate carriage of this type of recorder for any aircraft with a first CofA before 1 January 2016.	
4.8.1, 4.8.2	Standard	Less protective or partially implemented or not implemented	The UK does not mandate carriage of an ELT for non Part-21 aircraft. For NCC/NCO, one ELT(S) is required in each life raft. In addition, 1 ELT(AD) is required for NCC offshore over hostile waters.	
4.9.1, 4.9.2	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK requires Pressure-altitude reporting (Mode S) transponders for NCC aircraft at all times and for flights in notified airspace for non-Part-21 and NCO aircraft.	
4.11	Standard	Less protective or partially implemented or not implemented	UK Reg. (EU) 965/2012 does not contain rules for SVS and CVS. Not implemented for non-Part-21 aircraft.	Future rule making activities regarding AWO will introduce SVS/CVS. In addition, the State of Operator is the competent authority instead of State of Registry for NCC operators and for NCO operators using third country registered aircraft.
4.12.2.1	Standard	Less protective or partially implemented or not implemented	Not mandated for non-Part-21 operations.	The UK rules for NCO have been adapted to the characteristics of NCO operators. The level of protection is equivalent and consistent with the guidelines of ICAO Doc 10020 Chap 8.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 6 Part 3: Operation of Aircraft (International Operations - Helicopters) (11th Edition) (AMDT 24)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
4.12.2.2, 4.12.3	Standard	Less protective or partially implemented or not implemented	A specific approval from the competent authority is not required for NCC, NCO or non-Part-21 operations.	
4.13.1, 4.13.2, 4.13.3, 4.13.4	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK has not ratified Article 83 bis but would follow these Standards and Recommended Practice if required.	
5.1.1	Standard	Less protective or partially implemented or not implemented	For non-Part-21 and NCO aircraft the UK requires radio communication equipment when required by the applicable airspace requirements for the airspace being flown.	
5.1.3, 5.1.4	Standard	Less protective or partially implemented or not implemented	The UK requires radio communication equipment when required by the applicable airspace requirements for the airspace being flown.	
5.1.7, 5.1.8	Standard	Different in character or other means of compliance	For non-Part-21 and NCC operators the State of Operator shall establish those criteria.	Not applicable to NCO because such operations are not performed with aircraft used for NCO.
5.1.9, 5.2.3, 5.2.4, 5.2.5, 5.3.3, 5.3.4, 5.3.5	Standard	Different in character or other means of compliance	For NCC operators and for NCO operators using third country registered aircraft, the State of Operator shall establish those criteria.	
7.1	Standard	Different in character or other means of compliance	For NCC and NCO operators using third country registered aircraft, the State of Operator is the competent authority issuing or validating the licences.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 7: Aircraft Nationality and Registration Marks (6th Edition) (AMDT 7)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C2 2.2 2.3	Standard	Less protective or partially implemented or not implemented.	The UK does not register unmanned aircraft unless they require certification.	
C4 4.2.5	Standard	Less protective or partially implemented or not implemented.	Balloons of not more than 2 M in any linear dimension at any stage of its flight, including any basket or other equipment attached to the balloon are exempt from registration and from the need to carry a fireproof identification plate.	To exclude toy balloons from Registration. All such balloons do not carry a payload and are therefore excluded from Annex 7 section 10.
C7 7.0	Standard	Less protective or partially implemented or not implemented.	There is no distinct Register of unmanned free balloons. Unmanned free balloons over 2 M in any linear dimension are entered on the UK Register of Civil Aircraft.	Unmanned free balloon launches that affect other airspace users are recorded but do not include all the detail specified. All such balloons do not carry a payload and are therefore excluded from Annex 7 section 10.
C8 8.1	Standard	Less protective or partially implemented or not implemented.	From 26 November 2026 the Air Navigation Order 2016 Articles 27 (2) and (4) require amendment to allow owners of aircraft registered in the names(s) of a charterer by demise to be included on the Certificate of Registration.	A legislative change is yet to be initiated.
C9 9.1	Standard	Less protective or partially implemented or not implemented.	By virtue of Air Navigation Order 2016 Article 27 (2) and (4) if an aircraft is registered in the name of a charterer(s) by demise the name of the owner is not included on the Certificate of De-registration.	A legislative change is yet to be initiated.
C9 9.2	Standard	Less protective or partially implemented or not implemented.	a) Not required. Balloons of not more than 2 M in any linear dimension at any stage of its flight, including any basket or other equipment attached to the balloon are exempt from registration and from the need to carry a fireproof identification plate.	All such balloons do not carry a payload and are therefore excluded from Annex 7 section 10.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 8: Airworthiness of Aircraft (11th Edition) (AMDT 108)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part II 1.3.2	Recom-mendation	Less protective or partially implemented or not implemented	Non-Part-21: Not implemented.	
Part II 1.5.4	Standard	Less protective or partially implement-ed or not imple-mented	Not fully implemented. Process is not estab-lished.	
Part II 1.6.2	Standard	Less protective or partially implement-ed or not imple-mented	Not fully implemented. Process is not estab-lished.	
Part II 1.6.3	Standard	Less protective or partially implement-ed or not imple-mented	Not fully implemented. Process is not estab-lished.	
Part II 3.2.4	Standard	Less protective or partially implement-ed or not imple-mented	No consideration is given in UK law for CofA is-sued by another state. Export CoA required for import.	
Part II 3.3.1	Standard	Less protective or partially implement-ed or not imple-mented	The United Kingdom CAA format of Certificate of Airworthiness describes categories, but not permitted operations.	It is not considered a loss of performance by this omission.
Part II 3.6.1	Standard	Different in charac-ter or other means of compliance	Assessment is also permitted by DOA under the UK Part-21 regulation.	Safety is assured through the DOA com-pliance and regulatory oversight.
Part II 4.2.1.5	Standard	Less protective or partially implement-ed or not imple-mented	Not fully implemented. Process is not estab-lished.	
Part II 4.2.1.6	Standard	Less protective or partially implement-ed or not imple-mented	Not fully implemented. Process is not estab-lished.	
Part II 4.2.3.3	Standard	Less protective or partially implement-ed or not imple-mented	Not implemented.	
Part II 4.2.3.4	Standard	Less protective or partially implement-ed or not imple-mented	Not fully implemented. Process is not estab-lished.	
Part II 5	Standard	Less protective or partially implement-ed or not imple-mented	SMS not yet implemented for maintenance or-ganisations.	There is a rulemaking action to include SMS in Part 145 organisations. Subpart F and CAO, BCAR: no SMS requirements.
Part II 6.2.2	Standard	Less protective or partially implement-ed or not imple-mented	SMS not yet implemented for maintenance or-ganisations.	There is a rulemaking action to include SMS in Part 145 organisations. Subpart F and CAO, BCAR: no SMS requirements.
Part II 6.2.4	Standard	Less protective or partially implement-ed or not imple-mented	SMS not yet implemented for maintenance or-ganisations.	There is a rulemaking action to include SMS in Part 145 organisations. Subpart F and CAO, BCAR: no SMS requirements Non-Part-21 aircraft: CAP553 BCAR Sec-tion A – no requirements.
Part II 6.6.5	Standard	Less protective or partially implement-ed or not imple-mented	Human Performance not specified.	Human performance not covered in Sub-part F, CAO, or Non-Part-21 aircraft: CAP553 BCAR Section A.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 8: Airworthiness of Aircraft (11th Edition) (AMDT 108)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part IIIA 2.2.3	Standard	Less protective or partially implemented or not implemented	The United Kingdom complies except that it does not require the scheduling of landing distance with runway slope. Performance is not scheduled for variations in water surface conditions, density of water and strength of current.	The UK requires that the allowable water surface conditions and any necessary water handling procedures for seaplanes be established. However, factors on landing distance are applied by operational rules where appropriate.
Part IIIA 4.1	Standard	Less protective or partially implemented or not implemented	The UK is not yet fully compliant with the text "They shall also consider Human Factors principles"	UK CS-25 Amendment 3 (July 2012) introduced 25.1302 relating to Flight Crew Error/Flight Crew Performance considerations in the Flight Deck Certification process. For the design of other parts of the aeroplane, the European Human Factors Advisory Group is tasked with producing a HF strategy and action plan which will guide the necessary rule making to achieve the goals of that strategy.
Part IIIA 4.1.6	Standard	Less protective or partially implemented or not implemented	For paragraphs (b), (g), (h) and (i): Part of these provisions implement ICAO's initiative to incorporate security into aircraft design. Protection against explosive and incendiary devices was not requested in the applicable airworthiness codes (JAR 25, CS 25) effective within the time span of the applicability of Part IIIA (up to 2 March 2004).	The differences related to security standards have been removed by the amendment of CS 25.795 introduced by Amendment 9 to CS 25 effective 12 August 2010. After this date the new security provisions are applicable to new applications for type certification as well as already certificated types subjected to certification of significant changes to TC (changed product rule Part 21A.101).
Part IIIA 9.2.4	Standard	Less protective or partially implemented or not implemented	The UK does not specify that limitations on equipment and systems shall include all those established for the various equipment and systems as installed in the aeroplane.	Paragraph 25X1524 was deleted from JAR-25 in order to harmonise with FAR 25, and therefore is not present in UK CS-25.
Part IIIA 11.1.1	Recommendation	Less protective or partially implemented or not implemented	Not specified (except for pilots compartment doors) by the applicable airworthiness codes (JAR 25, CS 25) effective within the time span of applicability of this provision of Part IIIA (up to 2 March 2004).	The differences related to security standards have been removed by the amendment of CS 25.795 introduced by Amendment 9 to CS 25 effective 12 August 2010.
Part IIIA 11.2	Standard	Less protective or partially implemented or not implemented	Not specified (except for pilots compartment doors) by the applicable airworthiness codes (JAR 25, CS 25) effective within the time span of applicability of this provision of Part IIIA (up to 2 March 2004).	The differences related to security standards have been removed by the amendment of CS 25.795 introduced by Amendment 9 to CS 25 effective 12 August 2010.
Part IIIB 2.2.7	Standard	Less protective or partially implemented or not implemented	The United Kingdom complies except that it does not require the scheduling of landing distance with runway slope. Performance is not scheduled for variations in water surface conditions, density of water and strength of current	The UK requires that the allowable water surface conditions and any necessary water handling procedures for seaplanes be established. However, factors on landing distance are applied by operational rules where appropriate.
Part IIIB 3.7	Standard	Less protective or partially implemented or not implemented	The UK only requires bird impact to be taken into account for CS 25 Large Aeroplanes and CS 23 Commuter Category aeroplanes. In the UK, certification with ditching provisions has to be requested by the applicant, as CS 23 and CS 25 do not require certification for ditching. However, CS 25.807(e) requires provision of ditching emergency exits for passengers, whether or not certification for ditching provisions is requested.	Compliance with the ditching requirements are at the discretion of the applicant. In practice, the operational restrictions which would result from a lack of ditching certification, means that most applicants seek to comply.
Part IIIB 4.1.1	Standard	Less protective or partially implemented or not implemented	The UK is not yet fully compliant with the text "They shall also consider Human Factors principles".	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 8: Airworthiness of Aircraft (11th Edition) (AMDT 108)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part IIIB 4.1.3	Standard	Different in character or other means of compliance	The UK does not require that the effects of materials during emergency situations be taken into account, with regard to persons on the ground and the environment in general.	
Part IIIB 6.1.1	Standard	Less protective or partially implemented or not implemented	The UK is not yet fully compliant with the text "They shall also consider Human Factors principles".	
Part IIIB 7.2.5	Standard	Less protective or partially implemented or not implemented	The UK does not specify that limitations on equipment and systems shall include all those established for the various equipment and systems as installed in the aeroplane.	Paragraph 25X1524 was deleted from JAR-25 in order to harmonise with FAR 25, and therefore is not present in CS 25.
Part IIIB 8.6	Standard	Less protective or partially implemented or not implemented	The United Kingdom only requires account to be taken of the installation of survival equipment in the Certification Specifications.	
Part IV 2.2.3.2	Standard	Less protective or partially implemented or not implemented	In the United Kingdom en-route performance is based on climb performance both for all engines operating and one engine inoperative situations. The case of the two critical power units inoperative for helicopters having three or more engines is not addressed.	
Part IV 4.1.6	Standard	Less protective or partially implemented or not implemented	There are no requirements in the United Kingdom for design precautions to be taken to protect against instances of cabin depressurisation. Unpressurised cabins and compliance with CS 27/29.831 ensures compliance with the standard relating to incapacitation from smoke or other toxic gases.	The UK does not have any pressurised helicopters at this time.
Part IV 4.1.8	Standard	Different in character or other means of compliance	In the UK, ground handling is not directly addressed.	The instructions for continued airworthiness in Appendices A29.3 & A27.3(a)(4) require information regarding towing & jacking to be supplied by the Type Certificate Holder. For Annex II aircraft there is no difference.
Part IVB 4.7	Standard	Different in character or other means of compliance	In the UK, ground handling is not directly addressed.	The instructions for continued airworthiness in Appendices A29.3 & A27.3(a)(4) require information regarding towing & jacking to be supplied by the Type Certificate Holder. For Annex II aircraft there is no difference.
Part IVB 5.2.7	Standard	More exacting or exceeds	The UK requires a restart capability for small rotorcraft up to 3175 KG.	CS 27 is more exacting or exceeds Part IVB which only requires restart capability for helicopters greater than 3175 KG or which are certificated to category A.
Part IVB 6.1.1	Standard	Different in character or other means of compliance	The United Kingdom does not comply with the Human Factors element.	
Part V 1.1.2	Recommendation	Different in character or other means of compliance	The United Kingdom applies EASA Certification Specification 22 to powered sailplanes. The upper weight limit of CS 22 is 850 KG. This means that powered sailplanes between 750 and 850 KG, certified in accordance with CS-22, may not be fully compliant.	
Part V 6.1.1	Standard	Different in character or other means of compliance	The United Kingdom does not comply with the Human Factors element.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 9: Facilitation (14th Edition) (AMDT 25)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Chapter 2: Entry and Departure of Aircraft				
2.10	Standard		In certain circumstances particulars of members of crew and any supernumerary passengers may be required.	
2.12	Standard		In certain circumstances carriers may be required to provide a passenger list showing the names, date of birth, nationalities and other particulars of passengers.	
2.19	Standard		General customs supervision should at all times be possible; such supervision may include a document check (Article 13 of the European Union's Customs Code refers).	
Chapter 3: Entry and Departure of Persons and Their Baggage				
3.26	Recommenda-tion		Normally disembarkation cards must be completed by all passengers except nationals of Member States of the European Economic Area.	
3.29	Standard		Disembarkation cards must be provided by the carrier at its expense and distributed to all passengers who need to complete them.	
3.38	Standard		The UK retains the right to introduce export controls in certain circumstances.	
3.45	Recommenda-tion		An operator remains liable for the care and custody of passengers and crew, including associated costs, in certain circumstances.	
3.48	Standard		Where the UK imposes a requirement to provide API, this shall include biographic data, flight details and travel document data.	
3.48.1	Standard		Where the UK imposes a requirement to provide API, this requirement will apply regardless of whether the information in the passenger's travel document is available in machine readable form.	
3.48.6	Recommenda-tion		Failure to provide data on request, without reasonable excuse, may carry a penalty.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 9: Facilitation (14th Edition) (AMDT 25)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.65 3.66.1 3.67 3.67.1 3.68	Standard & Recommenda-tion		Crew member certificates are not issued by the UK public authorities to crew members of UK airlines, whether or not they are required to be licensed. Identification documents bearing photographs of the holders are issued to UK aircrew members, licensed and unlicensed, by UK airlines and by airport authorities on their behalf, the validity of which may be checked by contacting the issuing authority. UK flight crew licences conform to the specification for personnel licences set forth in paragraph 5.1.1 of Annex 1. The date of birth is also included. Following the introduction of computerised licence issues a photograph of the holder is no longer required, neither is the place of birth nor a statement of the right of re-entry to the State of issue – these items are part of the Annex 9 Appendix 7 crew member certificate but are not called for in paragraph 5.1.1 of Annex 1.	
3.69 3.69.1	Recommenda-tion		The United Kingdom visa requirement is waived in respect of visa nationals who arrive and leave as operational aircrew within seven days.	
3.69.2	Recommenda-tion		The United Kingdom requires aircrew who are supernumerary to be in possession of a valid passport or other satisfactory document establishing identity and nationality and, where applicable, a valid visa.	
3.71 3.72	Recommenda-tion		The United Kingdom requires civil aviation inspectors who arrive to conduct inspection duties to be in possession of a valid passport or other satisfactory document establishing identity and nationality and, where applicable, a valid visa.	
3.74	Recommenda-tion		Where required UK visas and entry clearances should be obtained prior to travel and a person will normally be refused entry in the absence of the necessary clearance. The Border Force Officer has discretion to waive the requirement for an entry clearance in exceptional circumstances.	
3.75	Standard		The UK permits transit without visas for passengers who normally require visas, provided that the passenger has: (a) entry facilities for the countries en route and for the final destination; (b) a firm booking to travel by air within 24 hours; (c) no purpose in entering the UK other than to pass through in transit. ***Note:*** *This information is regularly updated in the Travel Information Manual*	
3.77	Recommenda-tion		In the United Kingdom children and young persons (minors) are those passengers aged under 18 years of age.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 9: Facilitation (14th Edition) (AMDT 25)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.78	Recommenda-tion		The United Kingdom visa requirement is waived in respect of visa nationals who arrive and leave as operational aircrew within seven days. The United Kingdom requires aircrew who are supernumerary to be in possession of a valid passport or other satisfactory document establishing identity and nationality and, where applicable, a valid visa.	
Chapter 4: Entry and Departure of Cargo and Other Articles				
4.2	Recommenda-tion		The European Union's Customs Code and the Implementing Provisions do not foresee waiving the need for a guarantee for transport by road (including airfreight by road); however, provisions exist to authorise a reduction of the guarantee level.	
4.3	Standard		Under European Union Customs legislation consultation with operators and other parties concerned is not compulsory in every case. Close co-operation and consultation with the operators is however generally sought in order to improve the quality and effectiveness of new regulations and of amendments to existing rules.	
4.15	Standard		In the UK this provision applies to cus-toms matters for which the 'declarant' is the relevant person. With regard to other policies (such as phyto-sanitary matters, etc) the person responsible for the infor-mation concerned may be a person other than the declarant.	
4.22	Standard		In the European Union a wide range of simplified customs procedures are in practice available for operators as regards export (for example, incomplete declarations, simplified declarations, local clearance procedures – Article 76 of the European Union's Customs Code refers). Some of these procedures are subject to prior authorisation from the customs authorities. As an authorised operator, the exporter is allowed to carry out any number of operations. The authorisation is based on general criteria, for example the ability to ensure that effective checks can be undertaken. Depending on the simplified procedure used, the declarant must be made available to the Customs authorities all of the required documents required for application of the provisions governing the export of goods.	
4.24	Standard		This Standard, and in particular the words 'at any customs office', does not conform with Article 161 § 5 of the European Union's Customs Code which provides that the export declaration must be lodged where the goods are packed or where the exporter is established.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 9: Facilitation (14th Edition) (AMDT 25)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
4.26	Recommendation		The Recommended Practice would seriously frustrate control by public authorities over goods loaded on a departing aircraft. Furthermore, the return of certain goods after their departure would not be guaranteed despite the lodging of a security.	
4.29	Standard		Currently, no European Union provision determines in which cases the use of simplified arrangements is obligatory or must be granted to the operators. In the European Union a wide range of simplified customs procedures are in practice available for operators as regards export (for example, incomplete declarations, simplified declarations, local clearance procedures – Article 76 of the European Union's customs Code refers). Some of these procedures are subject to prior authorisation from the customs authorities. As an authorised operator, the exporter is allowed to carry out any number of operations.	
4.31	Recommendation		While Customs clearance is expedited as far as possible, there may be other agencies involved in the clearance procedure. Customs cannot therefore undertake to release all goods within three hours of their arrival. One of the objectives of customs is nevertheless to perform checks and release goods within the shortest possible times.	
4.32	Recommendation		This Recommended Practice is acceptable in as far as the Contracting States have a common interpretation of the term "part consignment". According to Article 73(2) of the European Union's Customs Code, all the goods covered by the same declaration shall be released at the same time on the understanding that, where a declaration form covers two or more items, the particulars relating to each item shall be deemed to constitute a separate declaration.	
4.36	Standard		UK and European Union provisions concerning export and transit licences remain applicable, in certain cases, when the goods are redirected to another destination (for example weapons, dual use goods, precursors, etc).	
Chapter 5: Inadmissible Persons and Deportees				
5.4	Standard		An operator is required to remove an inadmissible person in accordance with the directions given by the Border Force Officer.	
5.9.1	Standard		Under UK legislation, where a passenger is refused entry, the operator will normally be responsible for any detention costs up to a maximum of 14 days unless the passenger is in possession of a current entry clearance/visa.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 9: Facilitation (14th Edition) (AMDT 25)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
5.11	Standard		UK legislation requires an operator to remove an inadmissible person to a country of which he is a national or citizen, a country or territory in which he has obtained a passport or other document of identity, a country or territory in which he embarked for the UK or a country or territory to which there is reason to believe that he will be admitted.	
5.11.1	Recommendation		A Border Force Officer may direct the carrier as to which country an inadmissible may be removed to.	
5.14	Standard		Under UK carrier liability legislation a charge may be imposed on the operator if a person arrives without the required documents. However, the operator is not liable if: i. It can show that the required documents were produced when the passenger embarked for the UK; ii. a false document is produced or the passenger impersonates the rightful holder of a document unless the falsity of the document or the impersonation is reasonably apparent; In addition, an operator may apply for Approved Gate Check status at individual ports of embarkation. If the operator satisfies the UK authorities that it meets the published criteria, which include an audited high standard of document checking and security procedures, the UK will normally waive charges relating to persons who arrive with no documents from the station and to a limited number of charges arising from passengers who do not hold current UK visas.	
5.26	Standard		The UK will co-operate fully with the requesting State to investigate and validate the persons claim to be a British citizen and to resolve the claim quickly, within 30 days if possible.	
5.27	Standard		This provision only applies where the person concerned is admissible or is to be expelled by the authorities.	
Chapter 8: Other Facilitation Provisions				

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 9: Facilitation (14th Edition) (AMDT 25)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
8.17 8.18 8.18.1 8.19 8.20 8.21	Standard & Recommendation		The UK will establish a National Air Transport Facilitation Programme in 2016 consistent with 8.17. A Facilitation Stakeholders Forum, under Department for Transport chairmanship, aims to meet regularly to discuss relevant issues. The UK strongly supports close co-ordination between civil aviation security and facilitation programmes. The Government itself does not establish facilitation committees at airports. There are, however, national consultative bodies for particular subjects, and ad hoc meetings are arranged when necessary to discuss particular topics. UK law (Section 35 of the Civil Aviation Act 1982) allows the Government to require that adequate facilities for consultation be established at airports. Consultation arrangements have been established under these powers at 51 airports.	

Annex 10: Aeronautical Telecommunications Vol I (Radio Navigation Aids) (6th Edition) (AMDT 91)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Chapter 2: General Provisions For Radio Navigation Aids				
2.1.6	Recommendation	Less protective or partially implemented or not implemented	Not specified in UK requirements.	Approach design incorporates supplemental aids as available and appropriate.
2.2.1	Standard	Less protective or partially implemented or not implemented	The UK does not currently require periodic flight testing of DME not associated with a published procedure.	
Chapter 3: Specifications For Radio Navigation Aids				
3.1.3.3.2	Standard	Less protective or partially implemented or not implemented	Some localisers are promulgated in AIP as having specific areas where signals do not meet specifications.	This is world-wide standard practice where topography restricts or influences the signals.
3.1.3.3.2.1, 3.1.3.3.2.2 and 3.1.3.3.2.3	Standard	Different in character or other means of compliance	UK requirements written in terms of usable signal.	
3.1.3.5.3.6	Standard	Less protective or partially implemented or not implemented	Several old CAT I systems do not meet this recommendation.	This is a function of aerial design and cannot be changed by simple adjustment. Airports are advised at flight inspection if their system could give false capture on certain types of receiver.
3.1.5.1.5	Recommendation	Less protective or partially implemented or not implemented	Some CAT I systems have reference datum heights between 40 and 50 FT.	Requiring 40 feet at certain airports would reduce the useable runway length too much.
3.1.5.1.6	Recommendation	Less protective or partially implemented or not implemented	Some CAT 1 systems have a reference datum lower than 40 FT. These facilities are exclusive to particular aircraft types.	Requiring 40 feet at certain airports would reduce the useable runway length too much.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 10: Aeronautical Telecommunications Vol I (Radio Navigation Aids) (6th Edition) (AMDT 91)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.1.5.3.1	Standard	Less protective or partially implemented or not implemented	The UK accepts that some G/P have restricted coverage - this is published in AIPs for each specific system.	This is world-wide standard practice where topography restricts or influences the signals.
3.4.6.4	Recommendation	Less protective or partially implemented or not implemented	The UK allows a fall of up to 0.5 dB.	To achieve no fall in carrier when modulating is almost impossible. The UK requirement is practical and has no discernable effect on aircraft equipment.
3.5.3.4.1	Standard	More exacting or exceeds	Requirements limit average PRF to 16ppps, or 30 ppps for interrogators of 100w or less peak pulse power.	
3.5.3.4.3	Recommendation	More exacting or exceeds	Requirements limit PRF to 16 ppps after 30 seconds in search mode and 30ppps for interrogators of less than 100 watts.	
3.5.3.4.4	Standard	More exacting or exceeds	Requirements limit PRF to 16 ppps after 30 seconds in search mode and 30ppps for interrogators of less than 100 watts.	
3.5.5.1.5.2	Standard	Less protective or partially implemented or not implemented	UK requirements only explicitly specify this requirement for DME/P.	
3.5.5.4.4	Standard	More exacting or exceeds	ED-54 (MOPS for aircraft DME interrogator) specifies a reply efficiency of 60% or more.	
3.11.6.1.3.1	Standard	Different in character or other means of compliance	In the UK, angle filter characteristics are expressed in terms of limits on degrees of pase lag per rate of angle change needed for autopilot.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 10: Aeronautical Telecommunications Vol II (Communications Procedures including those with PANS status) (6th Edition) (AMDT 92)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Chapter 3: General Procedures for the International Aeronautical Telecommunication Service				
3.5.1.1 and 3.5.1.1.1	Standard	Less protective or partially implemented or not implemented	UK complies only at ATC units and recommends compliance at certain AFIS units.	
Chapter 5: Aeronautical Mobile Service - Voice Communications				
5.1.7	Standard	Less protective or partially implemented or not implemented	Not specifically defined in UK legislation.	The ICAO requirement to be referenced in the relevant CAA publication or the requirement to be promulgated.
5.2.1.4.1.1	Standard	Yes	On safety grounds in order to reduce level busts, Flight Levels ending in hundreds are transmitted as HUNDRED eg, FLIGHT LEVEL ONE HUNDRED in order to differentiate from Flight Level one one zero.	
5.2.1.5.8	Standard	More Exacting or Exceeds	CONTACT shall have the meaning "Establish communications with...(your details have been passed)". Additional word - FREECALL shall have the meaning "Call (unit)..(your details have not been passed)". Mainly used by military ATC. In the UK the additional term PASS YOUR MESSAGE is used. RECLEARED (ICAO) is only used in the UK for route clearances and not for vertical clearances.	Shortens a pilot's first call on the next ATS unit/frequency as he/she knows he/she does not have to pass full details. Informs the pilot he/she will have to pass full details to the next ATS unit/frequency on first contact. In the case of RECLEARED, the direction of vertical movement, provided by CLIMB and DESCEND, acts as a check in some circumstances when a pilot misinterprets a call not directed at him/her.
5.2.1.7.1.2	Standard	Less protective or partially implemented or not implemented	Approach control radar arrivals = DIRECTOR/ARRIVAL (when approved). Precision approach radar = TALKDOWN.HOMER not used in UK.	
5.2.1.7.2.1.1	Standard	More Exacting or Exceeds	Type (b) in UK is the telephony designator of the aircraft operating agency, followed by the full registration marking of the aircraft	
5.2.1.7.2.2.1	Standard	More Exacting or Exceeds	In the UK, the name of either the aircraft manufacturer, or name of the aircraft model, or name of the aircraft category (e.g. helicopter or gyrocopter) may be used as a prefix to the callsign.	To aid recognition by the ground station and/or other aircraft that the aircraft transmitting is of a particular category and may manoeuvre differently or require special handling.
5.2.1.7.3.2.3	Standard	More Exacting or Exceeds	Whereas the calling aeronautical station's call sign followed by the answering station's call sign shall be considered an invitation to proceed with a transmission, the UK additionally uses the phrase Pass Your Message Under certain circumstances the answering ground station may omit its callsign.	It has been shown that omitting the ground station call sign may improve safety standards at busy ATC units.
5.2.1.9.2.3	Standard	Less protective or partially implemented or not implemented	The following method of acknowledging receipt is not used in UK: The callsign of the aircraft followed if necessary by callsign of the aeronautical station' (ICAO). (CALLSIGN) ROGER is used in the UK.	UK procedures in accordance with the examples in ICAO Doc 9432, para 2.8.1.6 and 3.3.2.
5.2.2.1.1.3	Recommendation	Less protective or partially implemented or not implemented	Not specifically defined in UK legislation.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 10: Aeronautical Telecommunications Vol II (Communications Procedures including those with PANS status) (6th Edition) (AMDT 92)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
5.2.2.1.3	Standard	Different in character or other means of compliance	VHF emergency channel 121.5 MHz not routinely monitored at civil aerodromes in the UK, however, it is monitored 24 HR at Area Control Centres and covers most of UK above 3000 FT AMSL.	121.5 MHz is to be monitored at international aerodromes if D&D are unable to monitor to circuit altitude.
5.2.2.3.3	Recommendation	Less protective or partially implemented or not implemented	Not specifically defined in UK legislation.	The ICAO requirement to be referenced in the relevant CAA publication or the requirement to be promulgated.
6.2.1	Recommendation	Less protective or partially implemented or not implemented	Para (2) true heading to be steered by the aircraft, with no wind, to head for the direction-finding station not usually provided in UK.	

Annex 10: Aeronautical Telecommunications Vol III Part 1 (Digital Data Communication Systems) and Part 2 (Voice Communication Systems) (2nd Edition) (AMDT 90)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part I				
C4	Standard	Less Protective or partially implemented or not implemented	AMS(R)S is not currently in use in the UK.	
C6.8	Standard	Less Protective or partially implemented or not implemented	VDL mode 3 is not in use in the UK.	
C6.9	Standard	Less Protective or partially implemented or not implemented	VDL mode 4 is not in use in the UK.	
C10	Standard	Less Protective or partially implemented or not implemented	Point-to-Multi-point Communications not used in the UK.	
C11	Standard	Less Protective or partially implemented or not implemented	The UK does not use HF Data Link.	
C12	Standard	Less Protective or partially implemented or not implemented	Universal Access Transceiver is not used in the UK.	
Part II				
Chapter 2: Aeronautical Mobile Service				
2.2.1.2	Recommendation	Different in character or other means of compliance	The UK interprets 'On a high percentage of occasions' to be the 95th percentile value and thus requires the effective radiated power to be such as to provide a field strength of at least 188 microvolts per metre (minus 101 dBW/m2).	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 10: Aeronautical Telecommunications Vol III Part 1 (Digital Data Communication Systems) and Part 2 (Voice Communication Systems) (2nd Edition) (AMDT 90)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
2.2.2.2	Standard	Different in character or other means of compliance	The UK specifies receiver sensitivity in terms of the minimum level of input signal (dBm), modulated 30% by a sinewave of 1 kHz, applied to the receiver which is required to produce a SINAD ratio of 12dB at the audio output measured with a psophometric filter.	
2.2.2.3	Standard	Less Protective or partially implemented or not implemented	The UK requirement includes both 25 kHz and 8.33 kHz channels spacing specified in values of kHz and not percentage of the assigned frequency.	
2.3.1.2	Standard	Less Protective or partially implemented or not implemented	The UK does not specify the effective radiated power but provides for classes of transmitter grouped into two classifications of 16 Watts and 4 Watts Minimum Output Power, having estimated radio-line-of-sight distances of 200 NM and 100 NM respectively. A recommendation that the output power be limited to 25 Watts to reduce interference is also made.	
2.3.1.3	Standard	Less Protective or partially implemented or not implemented	The UK does not specify the adjacent channel power but defines a spectral mask for the transmitter occupied spectrum.	
2.3.1.4	Standard	Less Protective or partially implemented or not implemented	The UK specifies the modulation as 'not less than 70%' when modulated by a 1000 Hz audio frequency signal.	
2.3.2.1	Standard	Less Protective or partially implemented or not implemented	The UK does not define the frequency stability of receiver.	
2.3.2.2.1	Recommendation	Less Protective or partially implemented or not implemented	The UK specifies the sensitivity in terms of a radio frequency input signal not exceeding 10 microvolts (-93 dBm), with 30% modulation at 1000 Hz to produce a signal plus noise to noise ratio of 6 dBm with an audio output power not less than 10 dB below the declared output power.	
2.3.2.3	Standard	Less Protective or partially implemented or not implemented	The UK does not state the effective acceptance bandwidth but defines the effective bandwidth relative to the selected channel frequency of the receiver at the 6 dB and 60 dB points.	
2.3.2.4	Standard	Less Protective or partially implemented or not implemented	The UK does not state the effective acceptance bandwidth but defines the effective bandwidth relative to the selected channel frequency of the receiver at the 6 dB and 60 dB points.	
2.3.2.5	Standard	Less Protective or partially implemented or not implemented	The specification the UK applies only states the adjacent channel rejection for 8.33 kHz channel spacing. For 8.33 kHz channel spacing an adjacent channel rejection of 45 dB is specified at the first upper and lower adjacent channels for defined desired and interfering signals.	
2.3.2.6	Recommendation	Less Protective or partially implemented or not implemented	The UK does not specify the adjacent channel rejection for 25 kHz, 50 kHz or 100 kHz channel spacing.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 10: Aeronautical Telecommunications Vol III Part 1 (Digital Data Communication Systems) and Part 2 (Voice Communication Systems) (2nd Edition) (AMDT 90)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
2.3.2.8.1	Standard	Less Protective or partially implemented or not implemented	Interference from adjacent channel VDL is not specified in UK requirements.	
2.3.2.8.2, 2.3.2.8.3, 2.3.2.8.4 & 2.3.2.8.4.1	Standard	Less Protective or partially implemented or not implemented	Not yet implemented.	
2.3.3.1, 2.3.3.2 & 2.3.3.3	Standard	Less Protective or partially implemented or not implemented	For aircraft (including helicopters) of 5700 KG MTWA or less, non-immune VHF Comm receivers may be permitted and the aircraft permitted to operate under IFR provided that crews are alerted to potential sources of interference.	This reflects the reduced risk posed to comm. receivers as compared to ILS and VOR receivers. No evidence notified to date to justify a reconsideration of this relaxation.
2.3.3.4	Recommendation	Less Protective or partially implemented or not implemented	For aircraft (including helicopters) of 5700 KG MTWA or less, non-immune VHF Comm receivers may be permitted and the aircraft permitted to operate under IFR provided that crews are alerted to potential sources of interference.	This reflects the reduced risk posed to comm. receivers as compared to ILS and VOR receivers. No evidence notified to date to justify a reconsideration of this relaxation
Chapter 5: SSR Mode S Air-Ground Data Link				
5.1.9	Standard	More exacting or exceeds	Provision of an e-mail address is not required. The manufacturer assigned serial number is required to relate to a unique beacon identification when it is used with a COSPAS SARSAT type approval certificate and so the COSPAS SARSAT approval number may be obtained indirectly. Information regarding aircraft colour is not required, however, information relating to max POB is required.	
5.2.1.3	Standard	More exacting or exceeds	The UK requires that the PERP is not less than 100mW	

Annex 10: Aeronautical Telecommunications Vol IV (Surveillance Radar and Collision Avoidance Systems) (4th Edition) (AMDT 83)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Chapter 2: General				
2.1.3.2.1	Standard		The UK does not comply with this paragraph as it currently mandates the carriage and operation in designated airspace only. Non-Mode C transponders are still used outside of this airspace.	
Chapter 4: Airborne Collision Avoidance System (ACAS)				
			ACAS systems certified in accordance with DO-185A which does not address all ICAO parameters.	DO-185B being produced which will match current ICAO standards.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 10: Aeronautical Telecommunications Vol V (Aeronautical Radio Frequency Spectrum Utilization) (3rd Edition) (AMDT 90)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C2 2.1.1	Standard	Less protective or partially implemented or not implemented	Not implemented in the UK	
C3 3.1.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C3 3.1.2.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C3 3.1.2.2	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C3 3.1.2.3	Recommendation	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C3 3.1.2.4	Recommendation	Less protective or partially implemented or not implemented	The UK has not assigned any HF frequencies.	
C3 3.1.2.5	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C3 3.1.3.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C3 3.2.2	Recommendation	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.1.1	Standard	Different in character or other means of compliance	VHF communications frequencies are planned in accordance with planning agreements reached within Europe and contained in ICAO EUR DOC 011. The utilization table is based on Annex 10 Vol IV Para 4.1.1 but incorporates regional agreements on specific uses of individual frequencies or sub-bands.	To maximise the number of frequency assignments and planning efficiency that can be achieved.
C4 4.1.2.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.2.3	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.2.4	Standard	Less protective or partially implemented or not implemented	Compliant for VDL Mode 2 however there are currently no mandatory carriage requirements for VDL Mode 3 or Mode 4 in Europe.	Provision has been made regionally for two VDL Mode 4 signalling channels.
C4 4.1.2.4.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.2.5	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.3.1.1	Standard	Different in character or other means of compliance	The UK encourages the use of practice PAN calls on 121.500 MHz in contradiction with the Annex 10 requirement for the frequency to only be used in genuine emergencies.	To ensure pilot familiarity with the process.
C4 4.1.3.1.2	Standard	Different in character or other means of compliance	The UK operates a distress and diversion cell which provides 121.500 MHz for the whole of the UK, therefore not all International aerodromes provide 121.500 MHz Facilities. Those that do are published in UK AIP GEN 3.6.6, Para 5.	To provide the most efficient and coherent response to 121.500 MHz calls.
C4 4.1.3.1.3	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.3.1.5	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.3.2.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 10: Aeronautical Telecommunications Vol V (Aeronautical Radio Frequency Spectrum Utilization) (3rd Edition) (AMDT 90)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C4 4.1.3.3.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.3.3.2	Standard	Less protective or partially implemented or not implemented	The UK has not implemented VDL Mode 4.	
C4 4.1.3.4.2	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations but is a prerequisite for ground station and aeronautical communications equipment approvals.	
C4 4.1.4.6	Recommendation	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.4.9	Recommendation	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.5.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.5.2	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.1.6.1.2	Standard	Different in character or other means of compliance	Within Europe the bands 131.400 - 132.000 and 136.800 - 136.875 MHz inclusive are designated for operational control communications. This has been agreed at a European regional level and hence frequencies to meet aircraft operating obligations under Annex 6 may not be assigned in the band 128.825 - 132.025 MHz.	To maximise the number of frequency assignments and planning efficiency that can be achieved.
C4 4.1.6.2	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations but all assigned frequencies are published in ICAO Table COM 2 published by the EUR regional office.	
C4 4.2.4	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.3.2	Standard	Less protective or partially implemented or not implemented	No operational W and Z channels assigned in UK.	
C4 4.4.1	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.4.2	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	
C4 4.4.3	Standard	Less protective or partially implemented or not implemented	This requirement is not specified in UK regulations.	

Annex 11: Air Traffic Services (15th Edition) (AMDT 52)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C2 2.5.2.3	Standard	Less protective or partially implemented or not implemented	Whilst the UK has adopted the term "controlled aerodrome", aerodromes where it is determined that air traffic control service will be provided are not designated as controlled aerodromes.	
C2 2.6.1	Standard	Different in character or other means of compliance	Subject to availability, VFR flights within class E airspace and all flights within class G airspace may receive UK Flight Information Services.	The UK does not designate airspace classes B and F.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 11: Air Traffic Services (15th Edition) (AMDT 52)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C2 2.6.3	Standard	Less protective or partially implemented or not implemented	With regards to Class G, the UK does not require continuous two-way communications under IFR.	
C2 2.8.1	Standard	Less protective or partially implemented or not implemented	Not yet implemented in the UK. No EUR Region requirements specified in Doc 7030.	
C2 2.8.2	Standard	Less protective or partially implemented or not implemented	Not yet implemented in the UK. No EUR Region requirements specified in Doc 7030.	
C2 2.9.1	Standard	Less protective or partially implemented or not implemented	Not yet implemented in the UK. No EUR Region requirements specified in Doc 7030.	
C2 2.9.2	Standard	Less protective or partially implemented or not implemented	Not yet implemented in the UK. There are no EUR Region requirements specified in Doc 7030.	
C2 2.9.3	Standard	Less protective or partially implemented or not implemented	Not yet implemented in the UK. There are no EUR Region requirements specified in Doc 7030.	
C2 2.11.2.3	Standard	Less protective or partially implemented or not implemented	With the exception that the UK does not apply VFR cruising levels, the UK complies with the intent of the Standard but has not adopted it into the UK's rule set.	Limits of UK airspace structures are determined on the basis of justified operational requirements.
C2 2.11.3.2.2	Recommendation	Less protective or partially implemented or not implemented	UK does not apply VFR cruising levels as the lower limit.	Limits of UK airspace structures are determined on the basis of justified operational requirements.
C2 2.11.3.3	Standard	Less protective or partially implemented or not implemented	With the exception that the UK does not apply VFR cruising levels, the UK complies with the intent of the Standard but has not adopted it into the UK's rule set.	Limits of UK airspace structures are determined on the basis of justified operational requirements.
C2 2.11.5.5	Recommendation	Less protective or partially implemented or not implemented	With the exception that the UK does not apply VFR cruising levels, the UK complies with the intent of the Recommendation but has not adopted it into the UK's rule set.	Limits of UK airspace structures are determined on the basis of justified operational requirements.
C2 2.13.4	Standard	Less protective or partially implemented or not implemented	ATS route designators are being modified to comply with Appendix 1 requirements in accordance with the EUROCONTROL Route Network Development plan.	Changes to route designators in dense/complex airspace are timed to coincide with major structural airspace changes.
C2 2.26.5	Standard	Less protective or partially implemented or not implemented	Time checks are available on request to the nearest minute.	Normal practice is for pilots to use other sources.
C3 3.4.2	Standard	Less protective or partially implemented or not implemented	Not implemented with regards to b). Pilots and operators are not notified though the AIP.	
C6 6.2.2.3.7	Standard	Less protective or partially implemented or not implemented	Automatic Recording is not available in each and every case in the UK.	FIS units remain a recommendation.
C7 7.1.3.5	Recommendation	Less protective or partially implemented or not implemented	The UK has not adopted this recommendation.	
C7 7.1.4.5	Recommendation	Less protective or partially implemented or not implemented	The UK has not adopted this recommendation.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 12: Search and Rescue (7th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Chapter 1: Definitions				
			Pilot-in-Command. In United Kingdom legislation, 'Pilot-in-command' in relation to an aircraft means a person who for the time being is in charge of the piloting of the aircraft without being under the direction of any other pilot in the aircraft.	

Annex 13: Aircraft Accident and Incident Investigation (13th Edition) (AMDT 19)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C5 5.9.1	Recommendation		Assimilated Regulation (EU) No 996/2010 (as amended), Article 11.2 (e) gives powers to request medical examination and tests and have immediate access to results.	The AAIB can only request, it has no powers to insist but it does have full access to results.
C6 6.3	Standard		Civil Aviation (Investigation of Air Accidents & Incidents) Regulations 2018 Regulation 16 requires that comments on draft final reports be received within 28 days unless an extension of that time is granted.	To expedite report publication. Regulations allow for extenstion to 30 days and to 60 days and beyond to be granted by the Chief Inspector. The intention is to align to 30 days at the next revision to the regulations.

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
1.1.56	Definition	Different in character other means of compliance	Instead of Intermediate holding position, the UK commonly uses the terms Taxiway Holding Position, Runway-taxi holding position and Intermediate-taxi holding position.	
1.2.2	Standard	Less protective or partially implemented or not implemented	The UK requires most types of aircraft operations for the purpose of Public Transport of Passengers and flying training to use an aerodrome licensed by the CAA or a Government aerodrome. However, neither cargo-only nor maintenance flights are required to use a licensed aerodrome and there is no requirement for Annex 14 to apply to Government aerodromes.	Government aerodrome means any aerodrome in the UK which is in the occupation of any Government Department or visiting force.
1.3.2	Standard	Less protective or partially implemented or not implemented	The UK does not specifically refer to a vertical reference system.	Orthometric height used as detailed in AIP GEN 2.1 Para 4.
1.4	Standard	Different in character other means of compliance	UK uses the term Public Transport of Passengers or flying training as the trigger for certifying. There is no requirement to certify Government aerodromes (see 1.2.2). In addition, the UK uses the term "licensing" as meaning the same as the ICAO term "certification".	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
1.6.1	Standard	Different in character other means of compliance	UK determines code number in accordance with characteristics of the aerodrome. UK uses the greater of TODA/ASDA to determine the reference code number. Column (2) ARFL is replaced by "greater of TODA/ASDA".	UK considers the use of TODA/ASDA to be more relevant.
1.6.3	Standard	Different in character other means of compliance	The UK uses the greater of TODA/ASDA instead of aeroplane reference field lengths.	UK considers the use of TODA/ASDA to be more relevant.
2.2.2	Standard	Different in character other means of compliance	The UK does not include "and shall normally remain where first established".	The UK requires the ARP to be located at the centre of the ATZ, therefore, any change in location would require changes to the ATZ. This would require a safety case to be approved by the CAA.
2.2.3	Standard	Different in character other means of compliance	The UK requires the aerodrome reference point to be specified in WGS 84 format.	WGS84 adopted by ICAO as the geodetic reference system for all aeronautical data in 1998.
2.3.1 & 2.3.3	Standard	More exacting or exceeds	The UK requires a vertical accuracy of 0.3 M.	
2.6.1 - 2.6.8	Standard & Recommendation	Less protective or partially implemented or not implemented	UK delaying the applicability date for the change to PCR for pavement bearing strength in order to allow airports adequate time to plan and prepare and undertake pavement strength evaluation.	
2.7.1 - 2.7.3	Standard & Recommendation	Less protective or partially implemented or not implemented	The UK does not require pre-flight altimeter check locations to be established.	Flight Operational procedures require the pre-flight checks to involve setting the QNH on all the barometric altimeters (usually 3) and checking that the height displayed is approximately correct and there is no major discrepancy between them.
2.9.5	Standard	Different in character other means of compliance	The UK does not use the terms loose sand or chemically treated.	
3.1.1	Standard	Less protective or partially implemented or not implemented	UK does not utilise the useability factor.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
3.1.2	Recommendation	Less protective or partially implemented or not implemented	The UK does not regulate aerodromes on this issue, although it is applied in practice through instrument flight procedures and airspace design procedures.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
3.1.3.1	Recommendation	Different in character other means of compliance	The UK does not consider cross-wind limitations to be associated with runway licensing criteria.	This is considered an aircraft performance issue handled by the aircraft operator and the pilot.
3.1.4.1	Recommendation	Less protective or partially implemented or not implemented	The UK does not utilise the usability factor.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
3.1.11	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify these requirements. They are implemented through ATC operations in accordance with PANS Docs and Air Traffic operations design.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.1.12	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify these requirements. They are implemented through ATC operations in accordance PANS Docs, Doc 9643 (SOIR) and Instrument flight procedure design.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
3.4.8	Recommendation	More exacting or exceeds	Exceeds by 30 M code 3 and 4 and by 5 M code 1 and 2. The runway strip which encloses an instrument runway should be graded for a distance of 105 M either side of the centreline where the code number is 3 or 4, and 45 M where the code number is 1 or 2.	
3.4.17	Recommendation	More exacting or exceeds	For runways code 3 and 4, the UK requires this portion to extend out to 105 M.	
3.5.2	Recommendation	Less protective or partially implemented or not implemented	CAP 168 states that for national aerodromes, RESAs should be considered for non-instrument runways where the code number is 1 or 2, particularly where there are movements by jet aircraft not using public transport performance factors, or a high proportion of runway-limited movements at the higher weights.	RESA requirements for non-instrument code 1 and 2 runways will be re-assessed.
3.6.3	Recommendation	More exacting or exceeds	The UK allows for the width to be not less than that of the visual strip width where that is the limiting width.	
3.6.4	Recommendation	Less protective or partially implemented or not implemented	The UK allows 2% up slope where the codes are 1 and 2.	Only permitted after aeronautical study determines acceptability.
3.7.4	Standard	Different in character other means of compliance	The UK specifies that Stopways should have friction characteristics not substantially less than those of the associated runway and above the minimum friction level specified in CAP 683.	
3.8.1	Recommendation	Less protective or partially implemented or not implemented	The UK does not specifically require radio altimeter operating areas to be established. The UK requires information out to 900 M before the threshold for PATC generation In operation at CAT II/III PACTC would refer.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
3.8.2	Recommendation	Less protective or partially implemented or not implemented	The UK does not specifically require radio altimeter operating areas to be established. The UK requires information out to 900 M before the threshold for PATC generation.	Survey information required to 60 M either side of extended runway.
3.8.3 & 3.8.4	Recommendation	Less protective or partially implemented or not implemented	The UK does not require radio altimeter operating areas to be established.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
3.9.2	Recommendation	Less protective or partially implemented or not implemented	The UK does not regulate this aspect as it is considered to be a commercial issue.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.10.1	Recommendation	Different in character other means of compliance	The UK requirements refer to strip rather than taxiway shoulder.	
3.12.1	Recommendation	Less protective or partially implemented or not implemented	The UK does not use traffic density as a trigger for the requirement of a holding bay.	The UK does not consider this to be an aerodrome certification issue. When required, holding bays are constructed in accordance with requirements.
3.12.3 & 3.12.9	Standard	Different in character other means of compliance	The UK permits the location of a runway-holding position that will cause an infringement of the OLS, but not the OFZ, by a manoeuvring aircraft.	Permissible only if no interference occurs and the impact of the infringement is addressed in the calculation of the OCA/H.
3.12.6	Standard	More exacting or exceeds	UK applies 137 M precision approach 2/3 runway.	
3.15	Recommendation	Less protective or partially implemented or not implemented	The UK requires only that the aerodrome operator ensures that aircraft de-icing/anti-icing is available where icing conditions are expected to occur. Specific de-icing/anti-icing facilities are not required in the UK. Difference also applies to the marking and lighting of de-icing/anti-icing facilities.	De-icing of aircraft is not an aerodrome regulation issue. Individual aerodrome's provisions for de/anti-icing are assessed in view of local conditions.
4.1.8	Standard	Less protective or partially implemented or not implemented	d) not implemented.	The UK addresses requirements for curved and other shaped approach surfaces on an individual basis.
4.1.11	Standard	Different in character other means of compliance	CAP 168, for national aerodromes, does not use the term "inner approach surface", although it is applied as part of the OFZ.	
4.1.17	Standard	Different in character other means of compliance	The UK does not use the term "Inner Transitional Surface".	
4.2.10 & 4.2.11	Standard & Recommendation	Different in character other means of compliance	The UK does not divide the APPS for the purposes of obstacle penetration.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
4.2.12	Recommendation	Different in character other means of compliance	The UK applies this but does not specify the need for aeronautical study.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
4.2.20	Recommendation	Different in character other means of compliance	The UK applies this but does not specify the need for aeronautical study.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.1.1.4	Recommendation	Different in character other means of compliance	The UK recommends that only aerodromes that accept non-radio aircraft have a wind indicator that should be marked by a white, circular band that is 7.5 M in diameter and 0.6 M wide.	
5.1.1.5	Recommendation	Less protective or partially implemented or not implemented	Illuminated wind direction indicators are required only at aerodromes serving scheduled public transport operations at night.	UK require at least one illuminated wind sleeve for night OPS.
5.1.4.1	Standard	Less protective or partially implemented or not implemented	The UK does not specify 10° or height of 300 M for licensed aerodromes.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
5.2.1.2	Recommendation	More exacting or exceeds	At runway intersections the marking of the major runway should be continued and that of the subsidiary runway should be interrupted.	The UK permits aerodromes to determine their primary runways.
5.2.1.7	Recommendation	Less protective or partially implemented or not implemented	The UK does not require pavement markings to be made with reflective materials.	The UK requires sufficient illumination across the apron and for markings to contrast with the surface on which they are installed.
5.2.8.3	Standard	Less protective or partially implemented or not implemented	UK does not require or specify taxiway markings on runways used as a taxiway.	Runway markings are considered adequate.
5.2.10.8	Recommendation	More exacting or exceeds	The UK does not specify this requirement.	To prevent runway incursion, as far as possible the UK requires the aerodrome to limit the width of taxiways at holding points.
5.2.12 - 5.2.12.6	Standard	Less protective or partially implemented or not implemented	UK does not require or specify VOR aerodrome checkpoints, nor therefore VOR aerodrome checkpoint signs (5.4.4).	VOR equipment is checked electronically.
5.2.13.7	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify the radii of markings.	The UK leaves this to aerodrome designers.
5.2.16.2	Recommendation	More exacting or exceeds	To prevent runway incursion, as far as possible the UK requires the aerodrome to limit the width of taxiways at holding points.	
5.3.1.2	Recommendation	Less protective or partially implemented or not implemented	The UK has not established protected laser emission zones around aerodromes.	
5.3.2.3	Recommendation	More exacting or exceeds	The UK requires the colour to be maintained throughout the range.	
5.3.4.34 & 5.3.4.35	Recommendation & Standard	Less protective or partially implemented or not implemented	The UK does not specify this.	Although capacitor discharge lights are allowed in the UK, no aerodrome has yet installed them - not used in the UK.
5.3.5.2	Standard	Less protective or partially implemented or not implemented	The UK does not use T-VASIS or AT-VASIS.	UK considers T-VASIS and AT-VASIS are not acceptable for public transport operations.
5.3.5.3	Standard	Less protective or partially implemented or not implemented	The UK only requires APAPI or PAPI.	T-VASIS and AT-VASIS are not considered acceptable for public transport operations.
5.3.5.43	Standard	More exacting or exceeds	The UK uses a plane 1 degree below the lower boundary of an on slope signal originating 90 M from units where the LDA is 1200 M or greater, 60 M where the LDA is 800 M - 1199 M and 30 M where the LDA is less than 800 M, diverging at 15 degrees from the runway edge at the threshold out to 15 NM.	This practice has been in existence since PAPI was originally designed.
5.3.7.1 - 5.3.7.6	Recommendation	Less protective or partially implemented or not implemented	The UK has not implemented such systems but permits variations to simple approach systems. If necessary, Annex 14 would apply.	
5.3.9.4 & 5.3.11.2	Standard	More exacting or exceeds	UK does not give 3 M discretion. The lights are located along the edges of the area declared for use as the runway.	Does not promote the use of non-load bearing or unsuitable surface.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
5.3.12.5	Standard	More exacting or exceeds	No discretion is given for offset of runway centreline lights. The UK specifies 30 M spacing except for CAT III operations or departures in RVR <400 M when 15 M spacing is required.	The UK has never specified 15 M spacing on runways intended to be used in RVR greater than 400 M regardless of maintenance serviceability. The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.3.16.2	Standard	More exacting or exceeds	The UK does not give 3 M discretion. The lights are located along the edges of the area declared for use as the stopway.	The UK does not promote the use of non-load bearing or unsuitable surface.
5.3.17.1	Standard	Less protective or partially implemented or not implemented	Centre line lights are not required between the taxiway centre line and the stop position on the stand.	The UK requires conspicuous centreline markings and stand lead-in arrows which provide adequate guidance.
5.3.17.2, 5.3.17.4 & 5.3.17.9	Recommendation	More exacting or exceeds	The UK requires Taxi Centre Line Lights to be provided in RVR <400 M.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.3.17.5	Recommendation	Less protective or partially implemented or not implemented	The UK requirements refer to runway lighting and marking. If aircraft taxi routes utilise part of a runway, guidance is supplied by the runway marking and lighting.	
5.3.17.12	Recommendation	More exacting or exceeds	The UK does not permit offset.	
5.3.17.15	Recommendation	Different in character other means of compliance	The UK bases spacing on RVR not radius of curve.	Tests & practical experience confirm that the spacing is sufficient.
5.3.18.6	Recommendation	Different in character other means of compliance	The UK does not permit 3 M offset.	The UK does not promote the use of non-load bearing or unsuitable surface.
5.3.20.1	Standard	More exacting or exceeds	The UK requires stop bars for operations in RVR <800 M.	The UK considers 800 M to be more suitable for the weather conditions experienced in the UK.
5.3.20.10	Recommendation	More exacting or exceeds	The UK specifies High Intensity lighting to be used as a component of an A-SMGCS.	
5.3.21.1 & 5.3.21.2	Standard & Recommendation	Different in character other means of compliance	Stop bar specifications apply. Stop bars are provided at those aerodromes operating in RVR <800 M.	The UK does not make any distinction between stop bars and Intermediate holding position lights.
5.3.21.3	Recommendation	Different in character other means of compliance	They should be positioned co-incident with any associated taxiway holding position marking so as not to obscure or interfere with the integrity of the marking.	The UK does not make any distinction between stop bars and Intermediate holding position lights.
5.3.21.4	Standard	Different in character other means of compliance	The stop bar light fittings shall be spaced equally across the taxiway in a line at right angles to the taxiway centreline at intervals of no greater than 3 M.	The UK does not make any distinction between stop bars and Intermediate holding position lights.
5.3.22.1	Standard	More exacting or exceeds	Instead of de/anti-icing facility exit lights, taxiways are protected by stop bars irrespective of the type of facility e.g. apron, hangar, de-icing facility etc.	
5.3.22.2 & 5.3.22.3	Standard	Less protective or partially implemented or not implemented	The UK does not specify de-icing facility specifications.	De-icing is carried out on apron areas.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
5.3.27.1	Standard	Less protective or partially implemented or not implemented	The UK does not specify requirements for aircraft stand manoeuvring guidance lights.	A visual docking guidance system or marshaller is normally used, and the UK requires adequate illumination to be provided across the apron area.
5.3.28.1 & 5.3.28.2	Standard & Recommendation	More exacting or exceeds	The UK requires this for RVR <1200 M to be consistent with requirements for runway guard lights.	The UK believes that the application of road holding position lights should be consistent with those for runway guard lights, to provide commonality for airside drivers.
5.3.28.4	Standard	Different in character other means of compliance	b) an amber light system meeting the characteristics of Runway Guard Lights is used.	The UK requires lights meeting the configuration of runway guard lights are installed to provide consistency for airside drivers at all locations when entering a runway.
5.4.1.2	Recommendation	Less protective or partially implemented or not implemented	The UK does not currently permit variable message signs.	The UK does not regard the technology, suitability and safety of such signs to be sufficiently mature.
5.4.3.4	Standard	Different in character other means of compliance	Not used in the UK. The UK uses a location sign reversed onto the runway holding position sign.	The UK believes that the location sign format and location is understood and applied across aerodromes. The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.4.3.5	Recommendation	Different in character other means of compliance	TORAs for intersection take offs are promulgated in the UK AIP.	Providing a sign for intersections is not consistent with full length take-off procedures.
5.4.3.17	Standard	Less protective or partially implemented or not implemented	The UK does not specify the requirement for a runway exit sign. The UK uses a destination sign or a taxiway location sign to indicate the runway exit where required.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.4.3.19	Standard	Less protective or partially implemented or not implemented	The UK does not specify the positioning of a runway vacated sign.	
5.4.3.20	Standard	Less protective or partially implemented or not implemented	The UK requires intersection take-off distances to be promulgated in the AIP.	
5.4.3.24	Recommendation	Different in character other means of compliance	The UK permits the sign to be beside the taxiway.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.4.3.26	Standard	More exacting or exceeds	The UK requires location signs to be provided with a yellow border at all times.	This provides a consistent format for all location signs.
5.4.3.28	Standard	Less protective or partially implemented or not implemented	The UK does not specify runway vacated signs.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.4.3.29	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify intersection take-off signs.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.4.4.1	Standard	Less protective or partially implemented or not implemented	The UK does not require or specify VOR aerodrome checkpoints.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
5.4.5.1	Standard	Less protective or partially implemented or not implemented	The UK does not require aerodrome identification signs.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
5.5.7.2	Standard	Different in character other means of compliance	The UK does not require markers to be within the light fitting.	The UK does not perceive a safety benefit is achieved by doing so. Markers located next to lights have proved effective.
5.5.8.2	Standard	More exacting or exceeds	Spacing of boundary markers is every 45 M not 90 M.	
6.2.3.9	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify the colour of overhead cable markers.	Provision of cable markers rests with power transmission undertakings. The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
6.2.5.4	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify the size of cable markers.	Provision of cable markers rests with power transmission undertakings. The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
6.2.5.5	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify the spacing of cable markers.	Provision of cable markers rests with power transmission undertakings.
6.2.5.6	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify the colour of cable markers.	Provision of cable markers rests with power transmission undertakings.
7.2.2	Recommendation	More exacting or exceeds	Inner edge of the taxi side stripe marking indicates the outer edge of the load bearing surface.	The UK does not promote the use of non-load bearing or unsuitable surface.
8.1.10	Recommendation	Different in character other means of compliance	The UK requires all except for e), g) & h), as it is not considered that standby power requirements are essential for these lights.	Existing power supply and standby arrangements are adequate. The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
8.3.3	Recommendation	Less protective or partially implemented or not implemented	The UK does not specify these time minima.	The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
9.1.13	Standard	Less protective or partially implemented or not implemented	b) The UK requires full-scale aerodrome emergency exercises at intervals not exceeding four years.	The UK considers four years provides more flexibility to aerodrome operators to engage the necessary support of externally based agencies in support of these exercises. This improves the quality of the exercise.
9.2.1	Standard	More exacting or exceeds	The provision of RFFS at a level appropriate to the longest aircraft normally using the aerodrome and its fuselage width, is a requirement of the aerodrome licence/certificate.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 14: Aerodromes Vol I (Aerodrome Design and Operations) (9th Edition) (AMDT 17)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
9.5.1 - 9.5.3	Recommendation	Less protective or partially implemented or not implemented	The UK delaying the applicability of Apron Management Services therefore does not currently require aerodrome operators to implement apron management services through a dedicated unit. Instead, several organisations have responsibilities for apron management and the safe movement of both aircraft and vehicles. Coordination between them is required.	Subject to future rule making.
9.8.7	Recommendation	Less protective or partially implemented or not implemented	The UK does not require surface movement radar to be provided for use in RVR conditions less than 350 M.	If SMR is not provided, operational limitations apply to ensure separation. SMR may be used in normal visibilities (e.g. at night) and is not limited only to poor visibility conditions.
9.12.2	Standard	Less protective or partially implemented or not implemented	The UK does not specify the requirement for ARIWS characteristics and status to be promulgated in the AIP.	
10.4.4	Standard	Different in character other means of compliance	UK permits 1.2 M wide transverse strip.	This has proven to be sufficient. The long-term use of this practice in the UK has not adversely affected or reduced safety or impacted upon interoperability.
10.5.8 & 10.5.9	Standard	More exacting or exceeds	The UK starts this requirement at RVR <400 M.	400 M provides consistency with MATS Part 1 procedures for the implementation of LVOs.
10.5.11 & 10.5.12	Standard	More exacting or exceeds	The UK starts this requirement at RVR <800 M.	

	Annex 14 Volume II: Heliports (4th Edition) (AMDT 9)			
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.2.4	Standard	Less protective or partially implemented or not implemented	Where, subject to appropriate risk assessment, new helicopter types or type variants seek use of helideck designs which are less than 1D, 3.2.4 b) may be applied even to helicopters having a MTOM > 3175 KG.	New helicopter types have been introduced to the UK sector which in some cases, have exceeded the D-value of helidecks on existing assets (commonly known as a sub-1D operation). Provided a CAP 437 Appendix H risk assesment for sub-1D operations can be satisfied on a case-by-case basis, it is acceptable for the dimensions of the TLOF to drop below 1D, even when serviced by a helicopter type with a MTOM which is > 3175 KG, as long as the FATO is no less than 1D.
3.2.10	Standard	Less protective or partially implemented or not implemented	Fully implemented with the exception of the requirement for object frangibility.	The UK does not accept that objects can be frangible to all parts of a helicopter – particularly vulnerable is the tail section (rotor, stinger).

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

	Annex 14 Volume II: Heliports (4th Edition) (AMDT 9)			
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.2.13	Standard	Less protective or partially implemented or not implemented	The Standard is applied to new builds completed on or after 14 November 2013.	For existing installations with a D-value of 16.00 M or less, a review of essential objects in the OFS has been instigated with a view to limiting obstruction heights to as low as reasonably practicable.
3.2.14	Standard	Different in Character or Other means of compliance	2.5 CM height limit based on max permitted height of the circle-H lighting components or helideck landing net each prior to installation. Where an operational need exists to install both systems a 2.5 CM height limit may be assumed for each component in isolation. Acceptance is applied only for helidecks used exclusively by wheeled helicopters where the threat of dynamic rollover is not an issue.	The safety issue addressed by 3.2.14, as confirmed by the accompanying Note, is to mitigate the incidence of dynamic rollover for helicopters equipped with skids due to the presence of nets or raised light fittings above the surface of the TLOF. For the installed height of lighting the UK allows some small leeway for the installed height of components (segments, subsections, lighting elements and associated cabling) to marginally exceed 2.5 CM where a TLOF is serviced exclusively by helicopters with wheeled undercarriages. Helideck nets are acceptable where knots do not exceed 2.5 CM prior to installation.
3.3.12	Standard	Less protective or partially implemented or not implemented	Fully implemented with the exception of the requirement for object frangibility.	The UK does not accept that objects can be frangible to all parts of a helicopter – particularly vulnerable is the tail section (rotor, stinger).
3.3.15	Standard	Less protective or partially implemented or not implemented	This Standard is being applied to new builds completed on or after 14 November 2013.	For existing installations with a D-value of 16.00 M or less, a review of essential objects in the OFS has been instigated with a view to limiting obstruction heights to as low as reasonably practicable.
3.3.16	Standard	Different in Character	2.5 CM height limit based on max permitted height of the circle-H lighting components or landing net each prior to installation. Where an operational need exists to install both systems a 2.5 CM height limit may be assumed for each component in isolation. Acceptance is applied only for shipboard heliports used exclusively by wheeled helicopters where the threat of dynamic rollover is not an issue.	The safety issue addressed by 3.3.16 is to mitigate the incidence of dynamic rollover for helicopters equipped with skids due to the presence of nets or raised light fittings above the surface of the TLOF. For the installed height of lighting, the UK allows some small leeway for the installed height of components (segments, subsections, lighting elements and associated cabling) to marginally exceed 2.5 CM where a TLOF is serviced exclusively by helicopters with wheeled undercarriages. Helideck nets are acceptable where knots do not exceed 2.5 CM prior to installation.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

	Annex 14 Volume II: Heliports (4th Edition) (AMDT 9)			
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
4.1.24	Standard	Less protective or partially implemented or not implemented	The requirement for a 210° obstacle free sector is upheld for all new build helidecks. For legacy helidecks the obstacle free sector may be reduced to no less than 180°.	All new helidecks must comply with the requirement for a 210° OFS. As regards legacy helidecks, it is agreed that an absolute minimum of a 180° OFS be provided. For helidecks with an OFS between 180° and 210°, there is insufficient evidence of a safety issue to impose any restrictions or demand corrective action. In order to regularise the situation, for those legacy helidecks which are unable to comply, the 210° Obstacle Limitation Surface (OLS) may be regarded as an Obstacle Identification Surface (OIS).
4.2.7, 4.2.10	Standard	More exacting or exceeds	The UK does not permit heliport designs with only a single approach and take-off climb surface.	Most helicopters require to operate into wind approach and take-offs.
4.2.19	Standard	More exacting or exceeds	For new build amidships shipboard heliports and refurbishments over 16.0 M completed on or after 10 November 2018, objects are restricted to no greater than 15 CM. For amidships shipboard heliports of 16.0 M or less, objects are restricted to no greater than 5 CM.	There is a potential incompatibility between 3.3.14 and 3.3.15 and 4.2.19 which will be raised with ICAO.
4.2.23	Standard	More exacting or exceeds	For non-purpose built ship side landing areas of 16.0 M or less objects are restricted to no greater than 5 CM.	There is a potential incompatibility between 3.3.15 and 4.2.23 which will be raised with ICAO.
5.3.7.3	Standard	Different in character or other means of compliance	Where the TLOF is not located within the FATO at a surface level heliport, the lighting of the FATO may consist of green perimeter lights (in lieu of white lights).	For surface level heliports located in a light rich environment of a city, town or settlement, research has indicated more effective acquisition of the heliport by use of green perimeter lighting.
5.3.7.4	Recommendation	Different in character or other means of compliance	Where the TLOF is not located within the FATO at a surface level heliport, the lighting of the FATO may consist of green perimeter lights meeting Illustration 5.	The distribution of light for illustration 4 is contrary to the established position of the helicopter on approach to a heliport as confirmed by UK research data i.e. the specification for the light in the vertical elevation is incompatible with typical approach path angles.
5.3.9.11	Recommendation	More exacting or exceeds	The UK requires that both the TD/PM circle and heliport identification marking be illuminated.	As of 1 April 2018, the lit TD/PM circle and lit heliport identification 'H' marking is mandated for offshore helidecks by a Safety Directive.
5.3.9.16	Standard	Different in character or other means of compliance	For the TD/PM circle, the UK allows a minimum width of 40 MM.	This specification is now recognised in the Heliport Manual (onshore) Doc 9261 as being an acceptable means of compliance.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

	Annex 14 Volume II: Heliports (4th Edition) (AMDT 9)			
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
5.3.9.22	Recommendation	More exacting or exceeds	UK specification is more demanding at lowest elevations but less demanding at higher level (where UK research confirms the lowest light outputs are required).	UK has published its own version of Illustration 5 based on real data for helicopter approach path angles. This specification is now recognised in the Heliport Manual (onshore) Doc 9261 as being an acceptable means of compliance.
5.3.11.4	Recommendation	Less protective or partially implemented or not implemented	The UK does not require a heliport to demonstrate compliance with this recommendation.	It is very difficult to achieve or verify this recommendation and UK accepts that if the objective of standard 5.3.11.3 for the spectral distribution of floodlighting across the surface is met, this will provide adequate visual cues to allow for safe winching area operations.
5.3.14.3	Recommendation	Less protective or partially implemented or not implemented	The UK does not require a lit obstacle to demonstrate compliance with this recommendation.	It is very difficult to achieve or verify this recommendation and UK accepts that if the objective of standard 5.3.14.2 for the illumination of the entire obstacle is met, this will provide adequate warning to pilots to facilitate safe operations/ clearance from the object.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 15 Aeronautical Information Services (16th Edition) (AMDT 41)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C1 1.1.106	Definition VOLMET	Less protective or partially implemented or not implemented	UK VOLMET and D-VOLMET provides current aerodrome routine meteorological reports only.	System designed to give rapid refresh of current conditions at key aerodromes in high density air traffic airspace.
C1 1.2.2.2	Standard	More exacting or exceeds	In the UK, OSGM15 (which includes data from EGM-96) is the geoid model used for determining heights above MSL to the required level of accuracy.	EGM-96 does not meet accuracy requirements for elevation and geoid undulation specified in Annex 14, Volumes I and II.
C1 1.2.2.3	Standard	Less protective or partially implemented or not implemented	Parameters for height transformation between OSGM15 and EGM-96 are not published.	There is no perceived requirement in the UK for a description of the parameters required for height transformation between OSGM15 and EGM-96.
C3 3.2.2	Standard	More exacting or exceeds	Publication resolution is more exacting.	Where the data appears in more than one section of the AIP with different resolution requirements, the higher resolution will be applied, to avoid 'rounding'.
C5 5.3.1.1 to 5.3.2.3; and 5.3.4.1 to 5.3.5.2	Standard	Less protective or partially implemented or not implemented	UK regulation requires the AIS provider to ensure that digital data is in the form of the specified data sets only when available.	The UK has a stated objective to work towards the provision and maintenance of digital data sets for all aeronautical information products in accordance with ICAO specifications to be implemented by 31 December 2024.
C5 5.3.1.1; 5.3.3.3.4; 5.3.3.3.7; 5.3.3.4.5 and 5.3.3.4.6	Standard	More exacting or exceeds	UK policy is more demanding in certain cases.	UK requirements for data collection surfaces and coverage areas are intended to ensure that one aerodrome survey will deliver all data necessary to generate Obstacle Limitation Surfaces, design Instrument Flight Procedures and produce the required charts.
C6 6.3.2.3 and 6.3.2.4	Standard	More exacting or exceeds	The UK requires that unavailability of a runway due to runway marking works or, if the equipment used for those works can be removed, a time lag required for making the runway available shall be notified by NOTAM.	

Annex 16: Environmental Protection — Vol I (Aircraft Noise) (8th Edition) (AMDT 13)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
NIL				

Annex 16: Environmental Protection — Vol II (Aircraft Engine Emissions) (4th Edition) (AMDT 10)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part I				
1.13	Definition	Less protective or partially implemented or not implemented	Not yet implemented in UK regulations.	Will be compliant on 01 January 2023 under regulation 1(3) of S.I. 2022/637.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Annex 16: Environmental Protection — Vol II (Aircraft Engine Emissions) (4th Edition) (AMDT 10)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part III				
1.6, 1.7, 2.1.1.1, 4.2.1.1, 4.2.1.2, 4.2.2.1, 4.2.2.2, 4.2.3	Standard	Less protective or partially implemented or not implemented	Not yet implemented in UK regulations.	Will be compliant on 01 January 2023 under regulation 1(3) of S.I. 2022/637.

Annex 16: Environmental Protection — Vol III (Aeroplane CO2 Emissions) (1st Edition) (AMDT 1)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
NIL				

Annex 17: Security (6th Edition) (AMDT 10)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
NIL				

Annex 18: The Safe Transport of Dangerous Goods by Air (4th Edition) (AMDT 12)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
C10 10.1	Standard	Less protective or partially implemented or not implemented	UK Reg. (EU) and national regulations provide the legal requirement for initial and recurrent training programmes to be established for all entities except for agencies engaged in the security screening of passengers and their baggage.	The CAA is in dialogue with the DfT with the aim of establishing a) UK legal requirements for passenger and baggage screeners to complete initial and recurrent dangerous goods training and testing and b) guidance to aid industry to comply.
C10 10.2.2	Standard	Less protective or partially implemented or not implemented	Designated Postal Operator training programmes subject to review and approval but legal requirement for approval is not yet in place.	Legislation has been drafted but is subject to review.
C10 10.2.3	Recommendation	Different in character or other means of compliance	Outsourced Cat 1 training and all Cat 6 training is subject to CAA approval. All other training subject to audit.	
C11 11.4	Standard	Less protective or partially implemented or not implemented	Designated Postal Operator procedures subject to review and approval but legal requirement for approval is not yet in place.	Legislation has been drafted but is subject to review.

Annex 19: Safety Management (1st Edition) (AMDT 1)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
NIL				

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 4444: Procedures for Air Navigation Services — Air Traffic Management (15th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Chapter 4: General Provisions for Air Traffic Services				
4.5.7.2.1			The phraseology 'Cleared via flight plan route' is not used in the UK.	
4.5.7.5.1			In addition, the following items are to be read back in full: taxi/ towing instructions, approach clearances, altimeter settings, VDF information, type of ATS Surveillance Service being received and frequency changes. See GEN 3.3.3.	
4.6.1.5			At or above FL 280, speeds shall be expressed in multiples of 0.01 Mach; below FL 280, multiples of 10 KT shall be used.	
4.9			UK wake turbulence categories are different to ICAO. Pilots should refer to and be familiar with UK AIC P083/2020 Wake Turbulence.	
Chapter 5: Separation Methods and Minima				
5.3.3.2			Cruise climbs are not authorised by ATC in the UK.	
Chapter 6: Separation in the vicinity of aerodromes				
6.3.2.4			Revised SID/STAR phraseology not yet implemented.	Work is under way to effect UK implementation of PANS-ATM Amendment 7 provisions (date to be confirmed).
6.5.2.4			Descent clearance on a STAR is as directed by ATC. Revised STAR phraseology not yet implemented.	Work is under way to effect UK implementation of PANS-ATM Amendment 7 provisions (date to be confirmed).
Chapter 7: Procedures for Aerodrome Control Service				
7.2			The procedure for selection of runway in use for noise preferential reasons is currently not implemented in the UK.	
7.6.3.1.1.3			Standard taxi routes are not published in the UK. Taxi instructions will be issued individually by ATC.	
7.6.3.2.3.3			In the UK, the use of flashing runway or taxiway lights has no meaning and is not used.	
7.15			Aerodrome lighting shall be displayed from 15 minutes before any ETA and until 15 minutes after any ATD as follows: 1. **By day:** High intensity systems, where installed on the runway to be used, whenever the visibility is less than 5 KM and/or the cloud base is less than 700 FT; 2. **By night:** Irrespective of weather conditions.	
Chapter 8: ATS Surveillance Services				
8.6.5.1 (b)			Except in the approach phase, the purpose and extent of initial vectors will not be given by controllers. Aircraft in receipt of vectors and subsequently experiencing radio failure must follow the radio failure procedure notified at ENR 1.1.3.	
8.6.5.1 (c)			Controllers will endeavour to keep aircraft in receipt of vectors not less than 2 NM from the boundary of controlled airspace.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 4444: Procedures for Air Navigation Services — Air Traffic Management (15th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
8.7.3.2 (b)			Unless wake turbulence spacing is required, 2.5 NM spacing on final approach may be used between successive aircraft arriving at London Heathrow. Pilots should be aware that this spacing may be applied up to 20 NM from the threshold. Further details are notified in AIP EGLL-AD-2.20.	
8.7.3.4			UK wake turbulence categories are different to ICAO. Pilots should refer to and be familiar with UK AIC P083/2020 Wake Turblence.	
8.9.6.1.3			Obstacle clearance criteria applicable to each runway are detailed on UK AIP aerodrome approach charts and will not be routinely given by controllers over the RTF.	
			Chapter 12: Phraseologies	
12.2.4			Pilots are not required to report non-approved RVSM status in all requests for level changes and their read-backs.	
12.3.1.2 (a) 1			For level changes and reports: 'TO' shall only be used to describe altitude or height, eg 'DESCEND TO ALTITUDE 3000 FT'. It is **not** used when describing Flight Levels, eg 'CLIMB FL 250'.	
12.3.1.2 (z) to (kk)			Revised SID/STAR phraseology not yet implemented.	Work is under way to effect UK implementation of the PANS-ATM Amendment 7 phraseology (date to be confirmed but not before late 2017).
12.3.2.1 (c) & (d)			RECLEARED is to be used only when it relates to an ATC route clearance, airways, reporting points and waypoints, but NOT for instructions to climb and descend. The phrase 'CONTINUE AS CLEARED' is not to be used in the UK.	
12.3.2.4 (c)			'CRUISE CLIMB' is not used in the UK.	
12.3.3.1 (f) to (h)			Revised departure instructions phraseology not yet implemented.	Work is under way to effect UK implementation of the revised PANS-ATM Amendment 7 phraseology (date to be confirmed but not before late 2017).
12.3.3.2 (a) to (f)			Revised approach instructions phraseology not yet implemented.	Work is under way to effect UK implementation of the revised PANS-ATM Amendment 7 phraseology (date to be confirmed but not before late 2017).
12.4.1.8 (e) & (f)			For avoiding action the following phraseology will be used: AVOIDING ACTION. Turn left (or right) immediately heading (three digits). Traffic (bearing by clock reference and distance).	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 4444: Procedures for Air Navigation Services — Air Traffic Management (15th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
			OTHER UK PHRASEOLOGY **Student Pilots:** In the UK, pilots may hear the use of 'STUDENT' as part of the RTF callsign. The use of this term has been introduced to increase the awareness of controllers and other airspace users to the presence of student pilots flying solo. **Reduced runway separations:** When using ICAO reduced runway separation procedures, the phraseology 'LAND AFTER THE (aircraft type)' will be used. Full details of these procedures are notified in GEN 3.3.3. **Unlawful interference:** Pilots of aircraft subject to unlawful interference may hear one or more of the following phraseologies: 1. 'I am instructed by His Majesty's Government to refuse entry into United Kingdom airspace/ to inform you that landing clearance has been refused for any airfield within the United Kingdom. What are your intentions?' 2. 'I am instructed by His Majesty's Government that you are to hold at (fix or GPS position) at (level). Acknowledge'. **Approach delays:** If, for reasons other than weather, eg an obstruction on the runway, the extent of approach delays are not known, aircraft will be advised 'DELAY NOT DETERMINED'. As soon as it is possible for aircraft to re- commence approach procedures, EATs will be issued. **Helicopter phraseology** The UK has developed specific phraseology for use in helicopter operations. Helicopter pilots should be familiar with the relevant content of CAP 413 Radiotelephony Manual.**http://www.caa.co.uk/cap413**	
Chapter 13: Automatic dependent surveillance - contact (ADS-C) services				
			ADS-C systems are currently not used in the UK.	
Chapter 15: Procedures related to emergencies, communication failure and contingencies				
15.1.4			UK controlled airspace is complex and congested; traffic is often orientated on the airway in certain directions or flows. Therefore, if able, aircraft executing an emergency descent should remain on the assigned route or track whilst carrying out the descent; unless doing so would endanger the aircraft.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 4444: Procedures for Air Navigation Services — Air Traffic Management (15th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
15.1.4.2			Upon hearing an emergency descent broadcast on the ATC frequency, pilots should: maintain radio silence, listen for instructions from ATC, maintain a good visual lookout and respond to TCAS advisories.	
15.3.3			UK Radio Failure procedures for IFR/IMC flights provide pilots with instructions more comprehensive than ICAO procedures. Pilots should read and be familiar with UK Radio Failure procedures notified at ENR 1.1.3 paragraph 3.	
Chapter 16: Miscellaneous Procedures				
16.2			For the rules, regulations, responsibilities and restrictions regarding unmanned free balloons in UK airspace, users should contact the UK CAA's Airspace Utilisation Section.	
16.4			For UK repetitive flight planning requirements see ENR 1.10.	

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Vol I (Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part I: Departure Procedures Section 2; Chapter 1: Use of FMS/RNAV equipment to follow conventional departure procedures				
1.4			**Additional requirements:** 1. the conventional procedure must have been inserted into the FMS from a recognised database and cannot be manually loaded or modified by the crew other than to follow ATC instructions; 2. after the procedure has been loaded into the FMS as above, it must be cross-checked against the published conventional procedure before any attempt is made to follow the procedure using the FMS.	
Part I: Noise Abatement Procedures Section 7; Chapter 2: Noise Preferential Runways and Routes				

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Vol I (Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
2.2.3.			In general, where turns are required shortly after take-off for noise abatement or other operational purposes, the nominal track has not been designed in accordance with the criteria in Volume II Part 2 Chapter 3 para 3.3. However, no turns are to be commenced below a height of 500 FT AAL. Airport Operators may specify the criteria used to determine individual Noise Preferential Routes. These criteria are for guidance only and aircraft operators should adhere to the routes to the maximum extent practicable commensurate with the safe operation of the aircraft.	
Part I: Aeroplane Operating Procedures				
Section 7; Chapter 3				
3.8.			Unless otherwise stated, the upper limit for noise abatement procedures is 3000 FT ALT. However, aircraft operators are expected to operate their aircraft at all times in a manner calculated to cause the least noise disturbance on the ground.	

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Volume II (Construction of Visual and Instrument Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
Part I: Procedure Construction and Obstacle Clearance Criteria for Departure Procedures Section 3; Chapter 3: Turning Departure				
3.3			In general, when turns are required shortly after take-off for noise abatement or other operational purposes, the nominal track has not been designed in accordance with these criteria. However, no turns are to be commenced below a height of 500 FT AAL Primary and Secondary areas for obstacle clearance on Standard Instrument Departure Procedures, where published, are determined along the nominal ground track of the Noise Preferential Route as specified by the Airport Operator. Obstacle clearance is not assessed for any routes other than published Standard Instrument Departures Procedures.	
Part I: Initial Approach Segment Section 4; Chapter 3: Requirements for separate instrument approach charts				

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Volume II (Construction of Visual and Instrument Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
3.4.5.2 3.5.4.4			In certain procedures different outbound tracks and/or timings may be specified for Category A/B and Category C/D aircraft. These tracks/ timings will normally bepublished on a common instrument approach chart. Separate charts will normally be published whenever Category A/B and Category C/D aircraft have different procedure altitudes or different missed approach points.	
Part I: Length Section; Chapter 4				
4.3.1.1			The length of the intermediate segment should conform to the standard given in paragraph 4.3.1.1 whenever possible. However, when an operational advantage may be gained, the minimum length of the intermediate segment may be reduced to 5.5 KM (3 NM).	
Part I: Turn as soon as practicable Section 4; Chapter 6				
UK Addition 6.4.5.7			Paragraph 6.4.5.7 UK addition to PANS-OPS.	
Part I: General				
UK Addition 6.4.5.7.1			A turn as soon as practicable is prescribed in non-precision procedures when it is essential to locate the TP before the SOC associated with the normal turn at an altitude or at a fix, and when it is not convenient to move the MAPt. When specified, the missed approach procedures shall be annotated 'turn left (or right) as soon as practicable'. The criteria are the same as those for a turn at a designated altitude, modified in accordance with the paragraphs UK Addition 6.4.5.7.2 to 6.4.5.7.4.	
Part I: Turn altitude/height				
UK Addition 6.4.5.7.2			The turn altitude/height is also the OCA/H for the procedure. The TP is plotted at distance c after the latest limit of the MAPt tolerance area.	
Part I: Areas				
UK Addition 6.4.5.7.3			Turn initiation area. The turn initiation area is bounded by the edges of the MAPt tolerance area, starting at the earliest MAPt and extended beyond the latest MAPt to the TP.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Volume II (Construction of Visual and Instrument Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
UK Addition 6.4.5.7.3.1			Turn area. The inner and outer boundaries of the turn area are constructed as specified in paragraph Part I Sect 4 Chapter 6 paragraph 6.4.5.2.2 with the following exceptions: a. The boundaries are based on the intermediate missed approach speed of the appropriate aircraft category; b. The outer boundary starts at the range of the TP (distance c has already been included in the turn initiation area).	
Part I: Obstacle clearance				
UK Addition 6.4.5.7.4			The obstacle clearance in the turn initiation and turn areas is adjusted to preserve the normal MOC associated with the transitional tolerance X into the turn area as follows: a. Obstacle clearance in the turn initiation area. Obstacle elevation/height in the turn initiation area shall be less than: OCA/H - MOC approach segment b. Obstacle clearance in the turn area. Obstacle elevation/ height in the turn area and subsequently shall be less than: OCA/H - MOC missed approach + (d0 - X) tan Z with the additional provision that obstacle height need not be less than (OCH - MOC approach segment). Where d0 is measured from the obstacle to the nearest point on the turn initiation area boundary. MOC approach is the primary area MOC associated with the final approach segment. MOC missed approach is the MOC applicable to the missed approach; 50 M (164 FT) for turns exceeding 15° and 30 M (98 FT) for turns of 15° or less, reduced if appropriate for obstacles within any secondary areas.	
Part I: Minimum Sector Altitudes (MSA) Section 4; Chapter 8				

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Volume II (Construction of Visual and Instrument Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
8.4			Combining sectors for adjacent facilities: Where more than one facility provides arrival segment tracking to an instrument approach procedure, and unless otherwise specified, the minimum sector altitude for each sector is the highest of those calculated for that specific sector for every facility serving the procedure, regardless of the distance between the facilities. The Instrument Approach chart will state the facilities used in the calculation of MSA. eg 'MSA 25NM VOR XXX or NDB(L) YYY'.	
Part II: Surveillance Radar Section 2; Chapter 6				
UK Addition 6.1.1 6.2.3			**General.** See paragraph UK Addition 6.6 below for separate criteria for approved 'high resolution' equipment with a termination range of 0.5 NM or less. Additionally, within a specified area aligned with an Instrument Runway, when an aircraft is being vectored to an Instrument Approach, minimum obstacle clearance may be reduced to 150 M (500 FT). The specified area is shown on the ATC Surveillance Minimum Altitude Chart and is of the following dimensions: A line 2.5 NM long, centred on the runway centreline, 1.5 NM from the threshold in the approach and a line 5 NM long, centred on the runway centreline, 9.5 NM from the threshold in the approach, joined at the ends to form a quadrangle.	
6.4.3			**Area.** The area to be considered for obstacle clearance begins at the FAF and ends at the MAPt.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Volume II (Construction of Visual and Instrument Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
6.5			**Termination Range.** A Surveillance Radar Approach shall be terminated 2 NM before touchdown except where a termination range of 1 NM has been specifically approved. See paragraph 6.6 below for separate criteria for approved 'high resolution' equipment with a termination range of 0.5 NM or less. The Missed Approach Point (MAPt) is located at the point where the radar approach terminates. However, where operationally advantageous, the MAPt for 2 NM SRAs may be designated as 1 NM before touchdown.	
Surveillance Radar (high resolution) - UK addition to PANS-OPS				
UK Addition 6.6			**General.** Certain approved Surveillance Radar equipments can provide final approach guidance of better quality than that provided for in paragraph 6.1. The criteria for procedures using these radars are the same as those contained in paragraphs 6.2 and 6.3 except for the final approach and missed approach areas and obstacle clearance described below: Note: Approval of 'high resolution' SRE procedures is based on an operational and technical evaluation of the equipment. In all cases: a. There is a continuous talk-down, on a discrete frequency, from 4 NM with ranges and advisory heights being given every 0.5 NM; b. The approach controller providing final approach guidance is allocated full time to the task; c. The display system incorporates a centreline with associated reflectors to confirm centreline accuracy; d. The accuracy, resolution, antenna rotation rate. Low- level cover, and extent of permanent echoes are assessed as capable of giving a high probability of a successful approach with a termination range of 0.5 NM or less.	

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Doc 8168: Procedures for Air Navigation Services — Aircraft Operations Volume II (Construction of Visual and Instrument Flight Procedures) (4th Edition)				
ICAO Ref.	**Category (Standard, Rec'd Practice, etc.)**	**Difference**	**Details of Difference**	**Comments/Status**
UK Addition 6.6.1			**Area.** The area to be considered for obstacle clearance begins at the FAF and ends at the MAPt and is centred on the Final Approach Track. The minimum length of the Final Approach Track shall be 3 NM. The length shall be established by taking account of the permissible descent gradient (see paragraph 6.4.5). The maximum length should not exceed 6 NM. Where a turn is required over the FAF, Table I-4-5-1 in Part 1, Section 4, Chapter 5 applies. The width of the area is proportional to the distance from the radar antenna, according to the following formulae: W/2 = 1.9 + 0.1 D KM, for D greater than 10 KM. W/2 = 0.3 + 0.26 D KM, for D equal or less than 10 KM. Where: W = total area width in KM. D = distance from antenna to track in KM The maximum value for D is 37 KM (20 NM) subject to the accuracy of the radar equipment as determined by the Authority. A secondary area comprising 25% of the total width lies on each side of the primary area, which comprises 50% of the total width.	
UK Addition 6.6.2			**Obstacle Clearance.** The MOC is 75 M (246 FT) in the primary area, reducing to zero at the outer edges of the secondary areas.	
UK Addition 6.6.3			**Missed Approach Secondary Areas.** Secondary areas are established on each side of the primary area, with width equal to 25% of the total area width at the MAPt, reducing to zero width at the SOC.	

3 Data not fully compliant with data quality requirements (ADQ)

Numerical data and information with ICAO integrity classification 'critical', 'essential' or 'routine' made available via UK AIS, shall be provided in accordance with the requirements on the quality of aeronautical data and aeronautical information specified in relevant ICAO Annexes and UK Regulations (EU) 2017/373 and 139/2014.

Requirements on the quality of aeronautical data and aeronautical information apply to aeronautical data and aeronautical information with an ICAO integrity level and/or intended for use in IFR traffic and which are included in the following products made available by or through the UK AISP:

- Aeronautical Information Publication (AIP), including Amendments and Supplements;
- Aeronautical charts;
- NOTAM; and
- Digital data sets.

GEN 1.7 DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES (continued)

Requirements on the quality of aeronautical data and aeronautical information apply to all parties involved in the upstream data chain from the point of origination to the point of publication by AIS. This includes aerodrome operators, air navigation service providers, entities providing services for the origination and provision of survey data, airspace structure design and flight procedure design services and entities providing electronic terrain and obstacle data and any other parties originating, processing, or providing data in the scope of the data quality requirements.

More information regarding the applicability of 'ADQ' requirements can be found in CAP 1054 Chapter 2.

All data items that are in the scope of the ADQ but do not meet the data quality requirements are listed here:

https://nats-uk.ead-it.com/cms-nats/opencms/en/Publications/Data-Quality/

Additionally, all **Area 1 Obstacles** (the height of which is 100 M or more AGL) included in ENR 5.4 and all **Instrument Flight Procedures** published in relevant AD sections should be considered non-compliant with ADQ. Aeronautical data published for aerodromes outside of the scope of ADQ (as per paragraph 1.5 in AD 1.4) will **not** be annotated to indicate their data quality compliance.

Aeronautical data published in the Remarks column of an AIP Table shall be considered as non-compliant to the ADQ.

GEN 2 TABLES AND CODES

GEN 2.1 MEASURING SYSTEM, AIRCRAFT MARKINGS, HOLIDAYS

1 Units of Measurement

1.1 The table of units of measurement used in the United Kingdom is that which is published in ICAO Annex 5 (Fifth Edition) Chapter 3 including permitted non-SI alternative units.

Measurement of	Units
Distance used in navigation, position report etc – generally in excess of 2 or 3 nautical miles	*Nautical miles and tenths
Relatively short distances such as those relating to aerodromes (eg runway lengths)	Metres
Altitudes, elevations and heights	Feet and Flight Levels
Horizontal speed including wind speed	Knots
Vertical speed	Feet per minute
Wind direction for landing and taking off	Degrees Magnetic
Wind direction except for landing and taking off	Degrees True
Visibility < 5000 metres (including RVR)	Metres
Visibility > 5000 metres	Kilometres
Distance from cloud	Metres
Depth of runway deposit	Centimetres or millimetres
Altimeter setting	Hectopascals
Temperature	Degrees Celsius (Centigrade)
Weight/mass	Metric tonnes or kilogrammes
Date/Time	Year, Month, Day, Hour and Minute, the day of 24 hours beginning at midnight Co-ordinated Universal Time
* International nautical miles, for which conversion into metres is given by 1 international nautical mile = 1852 M.	

1.2 There is no sharp dividing line between the usage of nautical miles or metres for the two types of horizontal distances referred to in the table above. There is no hard and fast rule, but distances having a navigational or position reporting aspect are given in nautical miles even if they are less than 2 nautical miles (eg ranges from touchdown during a precision approach). These are given in nautical miles and fractions. Distances on the aerodrome (eg runway lengths, etc.) are given in metres. Distances from obstacles in the vicinity of aerodromes and ILS marker distances are generally shown in nautical miles and tenths, except when it is necessary for greater accuracy for some middle markers to be shown in metres.

1.3 Nautical miles or feet, as appropriate, will be used in designating horizontal distances at military aerodromes, joint-user aerodromes controlled by Service personnel and in RAF Sections at Air Traffic Control Centres. Horizontal distances will, however, be given to civil pilots in metric units, on request. Similarly, at civil aerodromes, joint-user aerodromes under civil control and in civil sections at Air Traffic Control Centres, Service pilots will be given distances in nautical miles or feet, as appropriate, on request.

2 Temporal Reference System

2.1 The Gregorian calendar and Coordinated Universal Time (UTC) shall be used as the temporal reference system for air navigation.

2.2 Daylight saving time is UTC plus 1 hour. The expression “summer period” indicates that part of the year in which “daylight saving time” is in force. The other part of the year is named the “winter period”. Times applicable during the “summer period” are given in brackets.

2.3 The “summer period” is introduced every year on the last Sunday in MAR at 01:00 UTC and ceases on the last Sunday in OCT at 01:00 UTC.

2.4 Guidance material for expressing time periods in AIS Products is available on the NATS AIS website www.nats.aero/ais.

3 Horizontal Reference System

3.1 The geographical co-ordinates indicating Latitude and Longitude are expressed in terms of the World Geodetic System of 1984 (WGS84) geodetic reference datum.

3.2 Surveyed co-ordinates WGS84 are realised in the UK using the National GPS Network, a 3-D TRF (Terrestrial Reference Frame), using the ETRS89 (European Terrain Reference System 89) datum or by direct connection to the IGS system.

3.3 Area of Application

3.3.1 The area of application for the published geographical co-ordinates coincides with the Area of Responsibility for UK Air Traffic Services, ie London and Scottish Flight Information Regions; Scottish and Shanwick Oceanic Control Areas. In particular the airspace types shown below:

GEN 2.1 MEASURING SYSTEM, AIRCRAFT MARKINGS, HOLIDAYS (continued)

Area/en-route co-ordinates	Aerodrome co-ordinates
FIR Boundaries and Crossing points	Reference Points
ATS, RNAV and Conditional Routes	Thresholds
Holding Points	Radio Nav Aids – Precision and Non-Precision
Radio Nav Aids (Off Aerodrome)	Runway centre-line
CTA, TMA, CTR	Extended Runway centre-line FAFs
Restricted, Prohibited and Danger Areas	Stands and Nav Checkpoints
Obstacles – En-route	
Other significant points and areas	

3.4 Aerodromes with coordinates which have been transformed into WGS84 coordinates but whose accuracy of original field work does not meet the requirements in Annex 11, Chapter 2, and Annex 14, Volumes I and II, Chapter 2, are listed below:

Cheltenham
Derby

4 Vertical Reference System

4.1 The Ordnance Datum Newlyn (ODN) can be considered the source of Mean Sea Level (MSL) in the UK.

4.2 OSGM15 is the National Geoid Model used in the UK for determining elevations Above Mean Sea Level (AMSL) datum.

4.3 Primary term expressed in UK AIP.

a) Elevation (ELEV) - The vertical distance measured from Mean Sea Level (MSL). (FT/M)

4.4 Other terms expressed in AIP:

a) Above Aerodrome Level (AAL) - The vertical distance measured from a specified aerodrome. (FT/M)
b) Above Ground Level (AGL) - The vertical distance measured from the surface of the earth. (FT/M)
c) Above Mean Sea Level (AMSL) - The vertical distance measured from Mean Sea Level (MSL). (FT/M)
d) Altitude (ALT) - The vertical distance measured from Mean Sea Level (MSL). (FT/M)
e) Flight Level (FL) - A surface of constant atmosphere pressure which is related to a specific pressure datum, 1013.2 hPa, and is separated from other such surfaces by specific pressure intervals. Altitude above sea level in 100 FT units measured according to a standard atmosphere. Only above the transition level are flight levels used to indicate altitude; below the transition level feet (FT) are used.
e.g. FL250 = 25,000 FT AMSL when the pressure at sea level is 1013.2 hPa.
f) Height (HGT) - The vertical distance measured from a specified point or datum. e.g. An aerodrome.
g) Surface (SFC) - The distance measured from the surface of the earth. (FT/M)

5 Aircraft Nationality and Registration Marks

5.1 The nationality mark for British Civil aircraft is the letter 'G'. This nationality mark is followed by a hyphen and a registration mark consisting of four letters. Example: G-BAAA.

6 Public Holidays

6.1 The following link provides access to the government website announcing public holidays for the UK:

https://www.gov.uk/bank-holidays

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS

The abbreviations used in this AIP and in the general dissemination of information are extracted from ICAO DOC 8400. Abbreviations shown in italics are either different from or not contained in ICAO DOC 8400.

† When radiotelephony is used, the abbreviations and terms are transmitted as spoken words.

‡ When radiotelephony is used, the abbreviations and terms are transmitted using the individual letters in non-phonetic form.

	Terms which are not defined in ICAO Annexes or PANS but which are used regularly in the UK are defined below:
.	
...T	*True (preceded by a bearing to indicate reference to True North)*
A	
A/A	Air-to-air
A/G	Air-to-Ground
AAA	(or AAB, AAC....etc, in sequence) Amended meteorological message (message type designator)
AAL	Above Aerodrome Level
AAR	Air to Air Refuelling
AARA	*Air to Air Refuelling Areas*
ABM	Abeam
ABN	Aerodrome Beacon
ABV	Above
AC	*Area Control*
ACARS	Aircraft Communications Addressing And Reporting System
ACAS	†Airborne Collision Avoidance Systems
ACC	‡Area Control Centre OR Area Control
ACCID	Notification of an Aircraft Accident
ACFT	Aircraft
ACK	Acknowledge
ACL	Altimeter Check Location
ACN	*Airspace Co-ordination Notice (ACN in ICAO is aircraft classification number)*
ACT	Active OR Activated OR Activity
AD	Aerodrome
ADA	Advisory Area
ADF	‡Automatic Direction-Finding Equipment
ADIZ	†(to be pronounced 'AY-DIZ') Air Defence Identification Code
ADS-B	‡Automatic Dependent Surveillance - Broadcast
ADS-C	‡Automatic Dependent Surveillance - Contract
ADSU	Automatic Dependent Surveillance Unit
ADVS	Advisory Service
Aerodrome Approach:	That part of an Instrument Approach Procedure commencing at the designated height over the radio aid to be used and ending when the aircraft has broken cloud.
AEW	*Airborne Early Warning*
AFIL	Flight Plan Filed in the Air
AFIS	Aerodrome Flight Information Service
AFPEx	*Assisted Flight Plan Exchange*
AFS	Aeronautical Fixed Service
AFTN	‡Aeronautical Fixed Telecommunication Network
AGL	Above Ground Level
AGNIS	*Azimuth Guidance for Nose-In Stand*
AIAA	*Area of Intense Air Activity*
AIC	Aeronautical Information Circular
AIM	Aeronautical Information Management
AIP	Aeronautical Information Publication
AIRAC	Aeronautical Information Regulation and Control
AIREP	†Air-Report
AIREX	*Air Exercise*
AIRPROX:	*A situation in which, in the opinion of a pilot or a controller, the distance between aircraft as well as their relative positions and speed have been such that the safety of the aircraft involved was or may have been comprised.*
AIS	Aeronautical Information Services
ALA	Alighting Area
ALERFA	†Alert Phase
ALR	Alerting (message type designator)
ALRS	Alerting Service
ALS	Approach Lighting System
ALT	Altitude
ALTN	Alternate (Aerodrome)
AMA	Area Minimum Altitude
AMC	*Airspace Management Cell*
AMD	Amend OR Amended (used to indicate amended meteorological message; message type designator)
AMDT	Amendment (AIP Amendment)
AMS	Aeronautical Mobile Service
AMSL	Above Mean Sea Level
AMSS	Aeronautical Mobile Satellite Service
ANM	*ATFM Notification Message*
ANO	*Air Navigation Order*
AO	*Aircraft Operators*
AOC	Air Operator Certificate
AOM	*Aerodrome Operating Minima*
AP	Airport
APAPI	Abbreviated Precision Approach Path Indicator
APCH	Approach
APIS	*Aircraft Positioning and Information System*
APP	Approach Control Office OR Approach Control OR Approach Control Service
APRX	Approximate OR Approximately
ARA	*Advisory Radio Area*
ARO	Air Traffic Services Reporting Office
ARP	Air-Report (message type designator)
ARR	Arrival (message type designator)
ARST	Arresting (Specify (part of) Aircraft Arresting Equipment)
ASC	Ascent to OR Ascending to
ASDA	Accelerate-Stop Distance Available
ASHTAM	Special series of NOTAM notifying, by means of specific format, change in activity of a volcano, a volcano eruption and/or volcanic ash cloud that is of significance to aircraft operations
ASPH	Asphalt
ASR	*Airspace Reservation*
ATA	*Aerial Tactics Area*
ATC	‡Air Traffic Control (in general)
ATC Surveillance Minimum Altitude Area:	A defined area in the vicinity of an aerodrome, in which the minimum safe levels allocated by a controller vectoring IFR flights with Primary and/or Secondary Radar equipment have been predetermined.
ATD	‡Actual Time of Departure
ATFM	Air Traffic Flow Management

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

ATIS	†Automatic Terminal Information Service
ATM	Air Traffic Management
ATN	Aeronautical Telecommunication Network
ATS	Air Traffic Service
ATSU	*Air Traffic Service Unit*
ATZ	Aerodrome Traffic Zone
AU	Airspace Utilisation
AUP	*Airspace Utilisation Plan*
AUW	All Up Weight
AUX	Auxiliary
AVBL	Available OR Availability
AVGAS	†Aviation Gasoline
AVTUR	*Aviation Turbine Fuel*
AWR	*Air Weapon Range*
AWY	Airway
AZM	Azimuth
B	
BA	Braking Action
BBMF	*Battle of Britain Memorial Flight*
BCN	Beacon (Aeronautical ground light)
BDRY	Boundary
BFR	Before
BKN	Broken
BLCP	*Base Level Change Point*
BLDG	*(ENR 5.4) Miscellaneous Tower; Tower on Structure; Apartment/Hotel with Flat Roof; Building, General (All Types); Observation Tower; Commercial Building, General; Observatory; Dwelling, Multi-Family; Stadium, Domed; Hospital, General; Commercial Building with Curved Roof; Ferris Wheel; Water-Tower Building, Masonary/Concrete; Building General (All Types); Transformer Yard; Commercial Building, Circular with Flat Roof; Capitol Building; Commercial Building with Flat Roof; Commercial/Recreational Structure, General.*
BLO	Below Clouds
BLW	Below…
BOMB	Bombing
BOTA	*Brest Oceanic Transition Area*
BR	Mist
BRDG	*(ENR 5.4) Bridge Tower; Suspension Bridge; Bridge, General; Arch*
BRF	Short (Used to indicate the type of approach desired or required)
BRG	Bearing
BRKG	Braking
B-RNAV	*†Basic - (To be pronounced 'AR-NAV') Area Navigation*
BS	Commercial Broadcasting Station
BTL	Between Layers
BTN	Between
BVLOS	*Beyond Visual Line Of Sight*
C	
C	Degrees Celsius (Centigrade)
CAA	*Civil Aviation Authority*
CANP	*Civil Aircraft Notification Procedure*
CAP	*Civil Aviation Publication*
CAS	*Controlled Airspace*
CAT	Clear Air Turbulence
CATZ	*Combined Aerodrome Traffic Zone*
CAVOK	†(To be pronounced 'KAV-OH-KAY') Visibility, cloud and present weather better than prescribed values or conditions
CBA	*Cross Border Area*
CC	*Counter Clockwise*
CDN	Co-ordination (message type designator)
CDR	*Conditional Route*
CH	Channel
CHAPI	*Compact Helicopter Approach Path Indicator*
CHG	Modification (message type designator)
CHIM	*(ENR 5.4) Smokestack, General; Thermal Power-Plant Smokestack*
CI	Cirrus
CIDIN	†Common ICAO Data Interchange Network
CIV	Civil
CL	Centre-Line
CLBR	Calibration
CLG	Calling
Cloud Ceiling:	In relation to an aerodrome, the distance measured vertically from the notified elevation of the aerodrome to the lowest part of any cloud visible from the aerodrome which is sufficient to obscure more than one half of the sky so visible.
CLR	Clear(s) OR Cleared to … OR Clearance
CLSD	Close OR Closed OR Closing
CM	Centimetre
CMATZ	*Combined Military Aerodrome Traffic Zone*
CMB	Climb to OR Climbing to
CMPL	Completion OR Completed OR Complete
CNL	Flight Plan Cancellation (message type designator)
CNS	Communications, Navigation and Surveillance
COM	Communications
Competent ATS Authority:	Means in relation to the UK, the Civil Aviation Authority, and in relation to any other country the authority responsible under the law of that country for promoting the safety of civil aviation.
CONC	Concrete
COND	Condition
CONS	Continuous
CONST	Construction OR Constructed
CONT	Continue(s) OR Continued
Continuous Descent Approach (CDA):	A noise abatement technique for arriving aircraft in which the pilot, when given descent clearance below Transition Altitude by ATC, will descend at the rate he judges will be best suited to the achievement of continuous descent, whilst meeting the ATC speed control requirements, the objective being to join the glidepath at the appropriate height for the distance without recourse to level flight
COOL	*(ENR 5.4) Cooling Tower, Industrial*
COOR	Co-ordinate OR Co-ordination
COORD	Geographical Co-ordinates
COP	Change-Over Point
COR	Correct OR Correction OR Corrected (Used to indicate corrected meteorological message; message type designator)
COV	Cover OR Covered OR Covering
CPDLC	Controller to Pilot Data link
CPL	Current Flight Plan (message type designator)
CRAM	*Conditional Route Availability Message*
CRN	*(ENR 5.4) Rotating Crane on Tower, Industrial; Rotating Crane, Industrial; Bridge Crane, Industrial*
CRZ	Cruise
CTA	Control Area
CTAM	Climb to and Maintain
CTC	Contact
CTL	Control

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

CTN	Caution
CTOT	*Calculated Take-off Time*
CTR	Control Zone
CUST	Customs
CWY	Clearway
D	
D....	*DME Range (prefix used in graphics)*
D…	Danger Area (Followed by Identification)
DA	Decision Altitude
D-ATIS	Data Link Automatic Terminal Information Service
DCKG	Docking
DCT	Direct (In relation to flight path clearances and type of approach)
DEG	Degrees
DEMO	*Demonstration*
DEP	Departure (message type designator)
DER	Departure End of the Runway
DES	Descend to OR Descending to
DEST	Destination
DETRESFA	†Distress Phase
DEV	Deviation OR Deviating
DF	Direction Finding
DfT	*Department for Transport*
DFTI	Distance from Touchdown Indicator
DH	Decision Height
DIST	Distance
DIV	Divert OR Diverting
DLA	Delay OR Delayed
DLY	Daily
DME	‡Distance Measuring Equipment
DNG	Danger OR Dangerous
DNM	*Directorate Network Management*
DOC	*Designated Operational Coverage*
DOM	Domestic
DPT	Depth
DR	Dead Reckoning
DRA	*Direct Route Airspace*
DRDF	*Digital Resolution Direction Finding*
DRG	During
Dropping Zone/Drop Zone:	Means the notified portion of airspace within which parachute descents are made.
DTAM	Descend to and Maintain
DTG	Date-Time Group
DU	Dust
DUC	Dense Upper Cloud
DUR	Duration
DVOR	Doppler VOR
DW	Dual Wheels
E	
EASA	*European Union Aviation Safety Agency*
EAT	Expected Approach Time
ECA	*Emergency Controlling Authority*
ECAC	*European Civil Aviation Conference*
EDT	*Estimated Departure Time*
EET	Estimated Elapsed Time
EFC	Expected Further Clearance
EFIS	†Electronic Flight Instrument System
EGNOS	European Geostationary Navigation Overlay Service
EHF	Extremely High Frequency (30000 to 300000 MHz)
ELBA	†Emergency Location Beacon - Aircraft
ELEV	Elevation
ELR	Extra Long Range
ELT	Emergency Locator Transmitter (GEN 3.6.6)
EMBD	Embedded in a Layer (To indicate cumulonimbus embedded in layers of other clouds)
EMERG	Emergency
END	Stop-end (related to RVR)
ENG	Engine
ENR	En-Route
EOBT	Estimated Off-Block Time
EQPT	Equipment
EST	Estimate OR Estimated OR Estimate (message type designator)
ETA	*‡Estimated Time of Arrival OR Estimating Arrival
ETD	‡Estimated Time of Departure OR Estimating Departure
ETFMS	*Enhanced Tactical Flight Management System*
ETOPS	*Extended Twin-jet Operations*
EXC	Except
EXER	Exercises OR Exercising OR To Exercise
EXP	Expect OR Expected OR Expecting
EXT	*Extension*
EXTD	Extend OR Extending
F	
FAC	Facilities
FAF	Final Approach Fix
FAM	*Flight Activation Monitoring*
FAP	Final Approach Point
FAS	Final Approach Segment
FAT	*Final Approach Track*
FATO	Final Approach and Take-off Area
FBL	Light (Used to indicate the intensity of weather phenomena, interference or static reports, eg FBL RA = Light rain)
FBO	*Fixed-base Operator*
FBU	*Flight Briefing Unit*
FBZ	*Flight Plan Buffer Zone*
FCT	Friction Coefficient
FDOD	*Flight Data Operations Division*
FDPS	Flight Data Processing System
FIC	Flight Information Centre
FIR	‡Flight Information Region
FIS	Flight Information Service
FISA	Automated Flight Information Service
FISO	*Flight Information Service Officer*
FL	Flight Level
FLAS	*Flight Level Allocation Scheme*
FLG	Flashing
FLR	*(ENR 5.4) Flare Pipe - On Land (In Refinery)*
FLT	Flight
FLTCK	Flight Check
FLY	Fly OR Flying
FM	From
FMC	Flight Management Computer
FMD	*Flow Management Division*
FMP	*Flow Management Position*
FMS	Flight Management System
FMU	Flow Management Unit
FNA	Final Approach
FOD	*Foreign Object Damage/Debris*
FPL	Filed Flight Plan (message type designator)
FPM	Feet Per Minute
FPR	Flight Plan Route
FRA	*Free Route Airspace*
FRA (A)	*FRA Arrival Connecting Point*
FRA (D)	*FRA Departure Connecting Point*

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

FRA (E)	*FRA Horizontal Entry Point*
FRA (I)	*FRA Intermediate Point*
FRA (X)	*FRA Horizontal Exit Point*
FREQ	Frequency
FRNG	Firing
FRQ	Frequent
FRZ	*Flight Restriction Zone*
FSL	Full Stop Landing
FSS	Flight Service Station
FT	Feet (Dimensional Unit)
FU	Smoke
FUA	*Flexible Use of Airspace*
G	
G/A	Ground-to-Air
G/A/G	Ground-to-Air and Air-to-Ground
GA	*General Aviation*
GAGAN	GPS & Geostationary Earth Orbit Augmented Navigation
GAMET	General Aviation Meteorological Forecast
GAT	General Air Traffic
GBAS	Ground Based Augmentation System
GCA	‡Ground Controlled Approach System OR Ground Controlled Approach
General Air Traffic (GAT):	Flights conducted in accordance with the Regulations and Procedures for flight promulgated by the State Civil Aviation Authorities and operating under the control or authority of the Civil ATS organisation.
GEO	Geographic OR True
GES	Ground Earth Station
GLD	Glider
GLONASS	Global Orbiting Navigation Satellite System
GLS	‡GBAS Landing System
GMC	*Ground Movement Control*
GMR	*Ground Movement Radar*
GND	Ground
GNSS	Global Navigation Satellite System
GP	Glide Path
GPA	Glide Path Angle
GPS	Global Positioning System
GPWS	‡Ground Proximity Warning System
GR	Hail
GRAS	Ground Based Regional Augmentation system
GRASS	Grass Landing Area
GRVL	Gravel
GS	Ground Speed
GUND	Geoid Undulation
GVS	*Gas Venting Site*
H	
H24	Continuous Day and Night Service
HAPI	Helicopter Approach Path Indicator
HBN	Hazard Beacon
HDF	High Frequency Direction-Finding Station
HDG	Heading
HEL	Helicopter
HEMS	*Helicopter Emergency Medical Service*
HF	‡High Frequency (3000 to 30000 kHz)
HGT	Height OR Height Above
HI	*High Intensity directional lights*
HIAL	*Highlands and Islands Airports Ltd*
HIRTA	*High Intensity Radio Transmission Area*
HJ	Sunrise to sunset
HLA	*High Level Airspace*
HLDG	Holding
HMRI	*Helicopter Main Routing Indicator*
HMU	*Height Monitoring Units*
HN	Sunset to Sunrise
HO	Service available to meet operational requirements
HOL	Holiday
HOPA	*Helicopter Operational Area*
HOSP	Hospital Aircraft
HOZ	*Helicopter Operating Zone*
HPA	Hectopascal
HR	Hours
HS	Service Available During Hours of Scheduled Operations
HT	*High Tension (power)*
HTA	*Helicopter Training Area*
HVDF	High and Very High Frequency Direction Finding Stations (At the Same Location)
HVY	Heavy
HX	No Specific Working Hours
Hz	Hertz (Cycle Per Second)
I	
IAC	Instrument Approach Chart
IAF	Initial Approach Fix
IAP	Instrument Approach Procedure
IAR	Intersection of Air Routes
IAS	Indicated Air Speed
IBN	Identification Beacon
ID	Identifier OR Identify
IDENT	†Identification
IF	Intermediate Approach Fix
IFF	Identification Friend/Foe
IFPS	Integrated Flight Planning System
IFR	‡Instrument Flight Rules
IGA	International General Aviation
ILS	‡Instrument Landing System
IM	Inner marker
IMC	‡Instrument Meteorological Condition
IMT	Immediate OR Immediately
INA	Initial Approach
INBD	Inbound
INC	In Cloud
INCERFA	†Uncertainty Phase
INFO	†Information
INOP	Inoperative
INS	Inertial Navigation System
INSTL	Install OR Installed OR Installation
INSTR	Instrument
INT	Intersection
INTL	International
INTSF	Intensify OR Intensifying
INTST	Intensity
IRS	Inertial Reference System
IRVR	Instrumented Runway Visual Range
ISA	International Standard Atmosphere
ISOL	Isolated
J	
JMC	*Joint Maritime Course*
JTST	Jet Stream
K	
KG	Kilogrammes
KHz	Kilohertz
KIAS	Knots Indicated Airspeed
KM	Kilometres
KMH	Kilometres per Hour

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

Known Traffic:	Traffic the current flight details and intentions of which are known to the controller concerned through direct communication or co-ordination.
KPA	Kilopascal
KT	Knots
KW	Kilowatts
L	
L	Locator (NDB with published approach procedure. See LM, LO)
LAM	Logical Acknowledgement (message type designator)
LARS	*Lower Airspace Radar Service*
LAT	Latitude
LDA	Landing Distance Available
LDAH	Landing Distance Available, Helicopter
LDG	Landing
LDI	Landing Direction Indicator
LEN	Length
LF	Low Frequency (30 to 300 kHz)
LFA	*Low Flying Area*
LFC	*Low Flying Co-ord*
LFZ	*Low Flying Zone*
LGT	Light OR Lighting
LGTD	Lighted
LHA	*Lowest Holding Altitude*
LHS	*Left hand side*
LI	*Low Intensity omni-directional lights*
LIH	Light Intensity High
LIL	Light Intensity Low
LIM	Light Intensity Medium
LITAS	*Low Intensity Two Colour Approach Slope Indicators at …… and …… metres from threshold bracketing approach angle of …… degrees*
LM	Locator, Middle
LNAV	† (to be pronounced “EL-NAV”) Lateral Navigation
LNG	Long (Used to indicate the type of approach desired or required)
LO	Locator, outer
LOC	Localizer
LONG	Longitude
LORAN	†LORAN (Long Range Air Navigation System)
Low Power/Low Drag Approach (LP/LD):	A noise abatement technique for arriving aircraft in which the pilot delays the extension of wing flaps and undercarriage until the final stages of the approach, subject to compliance with ATC speed control requirements and the safe operation of the aircraft.
LPV	Localizer Performance with Vertical Guidance
LTD	Limited
LV	Light and Variable (Relating to Wind)
LVL	Level
LVP	Low Visibility Procedures
M	
M	Metres (Preceded by figures)
MAA	Maximum Authorised Altitude
MAG	Magnetic
MAINT	Maintenance
MAP	Aeronautical maps and charts
MAPt	Missed Approach Point
MAS	Manual A1 Simplex
MASA	Multifunctional Transport Satellite (MTSAT) Satellite Based Augmentation System
MATZ	*Military Aerodrome Traffic Zone*
MAUW	*Maximum All Up Weight*
MCA	Minimum Crossing Altitude
MDH	Minimum Descent Height
MEA	Minimum En-route Altitude
MEDA	*Military Emergency Diversion Aerodrome*
MEHT	Minimum Eye Height over Threshold (For VASIS and PAPI)
MET	*(ENR 5.4) Meteorological Mast*
METAR	†Aviation routine weather report (In aeronautical meteorological code)
MF	Medium Frequency (300 to 3000 kHz)
MHDF	Medium and High Frequency Direction Finding Stations (At the same location)
MHVDF	Medium, High and Very High Frequency Direction Finding Stations (At the same location)
MHz	Megahertz
MID	Mid-point (related to RVR)
MIL	Military
MINE	*(ENR 5.4) Mine Shaft Superstructure*
MISC	*(ENR 5.4) Miscellaneous Air Obstruction (Man Made)*
MKR	Marker radio beacon
MLAT	*Multilateration*
MLS	‡Microwave Landing System
MM	Middle Marker
MNM	Minimum
MNPS	Minimum Navigation Performance Specifications
MNT	Monitor OR Monitoring OR Monitored
MNTN	Maintain
MOA	Military Operating Area
MOC	Minimum Obstacle Clearance (required)
MOCA	Minimum Obstacle Clearance Altitude
MOD	Moderate (Used to indicate the intensity of weather phenomena, interference or static reports, eg MOD RA = Moderate rain)
MOGAS	*Motor Gasoline*
MONT	*(ENR 5.4) Monument/Obelisk*
MPH	Statute Miles Per Hour
MPS	Metres Per Second
MRP	ATS/MET Reporting Point
MS	Minus
MSA	Minimum Sector Altitude
MSG	Message
MSL	Mean Sea Level
MTA	*Military Training Area*
MTOM	*Maximum Take-off Mass*
MTOW	*Maximum Take-off Weight*
MTRA	*Military Temporary Reserved Airspace*
MTU	Metric Units
MTWA	*Maximum Total Weight Authorised*
MVDF	Medium and Very High Frequency Direction Finding Stations (At the same location)
MWO	Meteorological Watch Office
N	
N	No distinct tendency (in RVR during previous 10 minutes)
NADP	Noise Abatement Departure Procedure
NAT	North Atlantic
NAV	Navigation
NB	Northbound
NBFR	Not Before
NC	No Change
NDB	‡Non-Directional Radio Beacon
NDS	*Non Deviating Status*

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

NEG	No OR Negative OR Permission not granted OR That is not correct
NERS	*North Atlantic European Routing System*
NGT	Night
Night:	The time between half an hour after sunset and half an hour before sunrise, sunset and sunrise being determined at surface level.
NIL	*†None OR I Have nothing to send to you
NM	Nautical Miles
NML	Normal
NOF	International NOTAM Office
NOSIG	†No Significant Change (Used in trend -type landing forecasts)
NOTA	*Northern Oceanic Transition Area*
NOTAM	†A notice containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations
NPA	Non Precision Approach
NPR	*Noise Preferential Routeing*
NPZ	*Non-standard Planning Zone*
NSC	Nil Significant Cloud
NSF	*Non Standard Flights*
NSGA	*Non-SSR Glider Areas*
NSU	*Nominated Service Unit*
NSW	Nil Significant Weather
NVG	*Night Vision Goggles*
O	
O/R	On Request
OAC	Oceanic Area Control Centre
OAS	Obstacle Assessment Surface
OAT	*Operational Air Traffic*
OBS	Observe OR Observed OR Observation
OBSC	Obscure OR Obscured OR Obscuring
OBST	Obstacle
OCA	Oceanic Control Area
OCH	Obstacle Clearance Height
OCL	*Oceanic Clearance Link*
OCNL	Occasional OR Occasionally
OCS	Obstacle Clearance Surface
OFZ	Obstacle Free Zone
OHD	Overhead
OIL	*(ENR 5.4) Refinery*
OLDI	On-Line Data Interchange
OM	Outer Marker
Operational Air Traffic (OAT):	Flights conducted under the control or authority of the military ATS organisation.
OPH	*(ENR 5.4) Offshore Platform with Helipad*
OPMET	†Operational Meteorological (information)
OPR	Operator OR Operate OR Operative OR Operating OR Operational
OPS	†Operations
OPSLF	*MOD Operations Low Flying*
ORCA	*Oceanic Route Clearance Authorisation System*
OSA	*Off-shore Safety Area*
OSV	Ocean Station Vessel
OTS	Organised Track System
OUBD	Outbound
P	
P…	Prohibited area (Followed by identification)
PALS	Precision Approach Lighting System (Specify category)
PAMOS	*Partially Automated MET Observation System*
PANS	Procedures for Air Navigation Services
PAPA	*Parallax Aircraft Parking Aid*
PAPI	†Precision Approach Path Indicator
PAR	‡Precision Approach Radar
Parachute Landing Area:	Means the terrain onto which parachute descents are made.
PAX	Passenger(s)
PBN	Performance-based Navigation
PCN	Pavement Classification Number
PCR	Pavement Classification Rating
PDG	Procedure Design Gradient
PER	Performance
PERM	Permanent
PFS	*(ENR 5.4) Floating Production Storage Offloading*
PGL	*(ENR 5.4) Gas Lift Platform*
PH	*Public Holiday*
PIB	Pre-flight Information Bulletin
PJE	Parachute Jumping Exercise
PLA	Practice Low Approach
PLN	Flight Plan
PLT	*(ENR 5.4) Power Plant; Industrial Structure, General; Tank, Telescoping Gasholder (Gasometer); Metal Processing Plant; Chemical Processing Plant; Tailings/Waste Pipe*
PN	Prior Notice required
PNdB	*Perceived Noise Decibels*
PNR	Point of No Return
POB	Persons On Board
POSS	Possible
POW	*(ENR 5.4) House of Religious Worship with Steeple; House of Religious Worship (Church/ Mosque/Synagogue/Temple)*
PPL	*(ENR 5.4) Offshore Platform with Derrick*
PPP	*(ENR 5.4) Offshore Platform*
PPR	Prior Permission Required
PRI	Primary
PRKG	Parking
PROB	†Probability
PROC	Procedure
PROV	Provisional
PSG	Passing
PSN	Position
PSR	Primary Surveillance Radar
PTN	Procedure Turn
PTS	Polar Track Structure
PWR	Power
PYL	*(ENR 5.4) Aerial Cable/Aerial Tramway or Power Transmission Line; Powerline Pylon, General; Powerline Pylon, Type A*
Q	
QDM	‡Magnetic Heading (zero wind)
QDR	Magnetic Bearing
QFE	‡Atmospheric pressure at aerodrome elevation (OR at runway threshold)
QFU	Magnetic orientation of runway
QNH	‡Altimeter sub-scale setting to obtain elevation when on the ground
QTE	True bearing
R	
R	Right (runway identification)
R....	*Radial (prefix for use in graphics)*
R…	Restricted Area (followed by identification)
RA	Resolution Advisory
RA(T)	*Restricted Area (Temporary)*
RAC	Rules of the Air and Air Traffic Services

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

RAD	*Route Availability Document*
Radar Clear Range:	A range surveyed by radar within which the operating authority accepts responsibility for withholding fire if an aircraft is within the area into which, and through which, missiles are liable to fall.
Radar Departure:	The control of a departing aircraft by the use of surveillance radar to assist it to leave the vicinity of an aerodrome safely and expeditiously.
Radar Handover:	Transfer of responsibility for the control of an aircraft between two controllers using radar , following identification of the aircraft by both controllers.
Radar Surveillance:	Observance of the movements of aircraft on a radar display and the passing of advice and information to identified aircraft and, where appropriate, to other ATS Units.
Radial:	A magnetic bearing extending from a VOR/ VORTAC/TACAN.
RAF	*Royal Air Force*
RAFAT	*Royal Air Force Aerobatic Team*
RAFCT	*Royal Air Force Combined Training*
RAG	Runway Arresting Gear
RAI	Runway Alignment Indicator
RAS	*Radar Advisory Service*
RASA	*Radar Advisory Service Area*
RASC	Regional AIS System Centre
RB	Rescue boat
RCC	Rescue Co-ordination Centre
RCF	Radio Communication Failure (message type designator)
RCL	Runway Centre Line
RCLL	Runway Centre Line Light(s)
RDH	Reference Datum Height (For ILS)
RDL	Radial
RDO	Radio
REC	Receive OR Receiver
REDL	Runway Edge Light(s)
REF	Reference to … OR Refer to …
REG	Registration
REQ	Request OR Requested
RERTE	Re-route
RESA	Runway End Safety Area
RET	*Rapid Exit Taxiway*
RETIL	*Rapid Exit Taxiway Indicator Lights*
RFF	Fire and Rescue Equipment
RHAG	*Rotary Hydraulic Arrester Gear*
RHS	*Right hand side*
RIS	*Radar Information Service*
RL	Report Leaving
RLCE	Request Level Change En-route
RLLC	*Royal Low Level Corridor*
RLLS	Runway Lead-in Lighting System
RLNA	Requested Level Not Available
RMA	*Radar Manoeuvring Area*
RMK	Remark
RMZ	*A Radio Mandatory Zone (RMZ) is defined as airspace of defined dimensions wherein the carriage and operation of radio equipment is mandatory.*
RN	*Royal Navy*
RNAV	†(To be pronounced 'AR-NAV') Area Navigation
RNG	Radio Range
RNHF	*Royal Navy Historical Flight*
RNP	‡Required Navigation Performance
ROBEX	†Regional OPMET Bulletin Exchange (Scheme)
ROD	Rate Of Descent
RON	Receiving Only
ROP	*Runway Observation Position*
RPL	Repetitive flight plan
RPLC	Replace OR Replaced
RPS	Radar Position Symbol
RPZ	*Runway Protection Zone*
RQMNTS	Requirements
RQP	Request flight plan (message type designator)
RQS	Request supplementary flight plan (message type designator)
RR	Report Reaching
RRA	(OR RRB, RRC . . . . etc, in sequence) Delayed meteorological message (message type designator)
RSCD	Runway Surface Condition
RSP	Responder beacon
RSR	En-Route Surveillance Radar
RTE	Route
RTF	Radiotelephone
RTG	Radiotelegraph
RTHL	Runway threshold light(s)
RTILS	*Runway Threshold Identification Lights*
RTM	*(ENR 5.4); Communication Tower; Microwave Tower, Type A (Has Reflector/Cone); Radio/ TV Tower Type A; Microwave Tower, Type I (Has Reflector/Cone)*
RTOAA	*Rejected Take-off Area Available*
RTODAH	Rejected Take-off Distance Available, Helicopter
RTR	*Radar Termination Range*
RTS	Return To Service
RTT	Radioteletypewriter
RTZL	Runway Touchdown Zone Light(s)
RV	Rescue Vessel
RVA	*Radar Vectoring Area*
RVP	*Rendezvous Point*
RVR	‡Runway Visual Range
RVSM	Reduced Vertical Separation Minimum
RWY	Runway
S	
SALS	Simple Approach Lighting System
SAMOS	*Fully automated with computer generated ATIS attached*
SAR	Search and Rescue
SARPS	Standards and Recommended Practices (ICAO)
SARSAT	*Search and Rescue Satellite Aided Tracking System*
SATCOM	†Satellite Communication
SBAS	Satellite Based Augmentation System
ScACC	*Scottish Area Control Centre*
ScATCC	*Scottish Area and Terminal Control Centre*
SDBY	Stand by
SDF	Step Down Fix
SEC	Seconds
SECT	Sector
SEG	Stand Entry Guidance
SELCAL	†Selective calling system
Semicircular Cruising Level	Specified cruising levels determined in relation to magnetic track within hemispheres of the compass.
SER	Service OR Servicing OR Served

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

SERA	*Standardised European Rules of the Air (Commission Implementing Regulation (EU) No 923/2012).*
SFC	Surface
SGL	Signal
SHF	Super High Frequency (3000 to 30000 MHz)
SI	*Statutory Instruments*
SID	†Standard Instrument Departure
SIGMET	†Information concerning en-route weather phenomena which may affect the safety of aircraft operations
SIGWX	Significant weather
SIWL	Single Isolated Wheel Load
SKED	Schedule OR Scheduled
SLP	Speed Limiting Point
SMC	Surface Movement Control
SMR	Surface Movement Radar
SNOCLO	Aerodrome closed due to snow (used in METAR/SPECI)
SNOWTAM	†A special series NOTAM given in a standard format providing a surface condition report notifying the presence or cessation of hazardous conditions due to snow, ice, slush, frost, standing water or water associated with snow, slush, ice or frost on the movement area.
SOC	Start of Climb
SOTA	*Shannon Oceanic Transition Area*
SPECI	†Aviation selected special weather report (In aeronautical meteorological code)
SPECIAL	†Special meteorological report (In abbreviated plain language)
SPL	Supplementary flight plan (message type designator)
SR	Sunrise
SRA	Surveillance Radar Approach
SRD	*Standard Route Document*
SRE	Surveillance Radar Element of precision approach radar system
SRR	Search and Rescue Region
SRY	Secondary
SS	Sunset
SSR	‡Secondary Surveillance Radar
SST	Supersonic transport
STA	Straight in approach
Stack Departure Time:	The time at which an aircraft is required to leave the holding facility to commence its approach.
STAR	†Standard instrument arrival
STD	Standard
STOL	Short Take-Off and Landing
STS	Status
STWL	Stopway light(s)
SUA	*Special Use Airspace (includes prohibited areas, restricted areas, danger areas, temporary segregated areas, temporary reserved areas and cross border areas)*
SUAAIS	*Special Use Airspace Activity Information Service*
SUACS	*Special Use Airspace Crossing Service*
SUBJ	Subject to
SUP	Supplement (AIP Supplement)
SUPPS	Regional supplementary procedures
SVC	Service message
SVCBL	Serviceable
SVFR	*Special Visual Flight Rules*
SWY	Stopway

T	
TA	Transition Altitude
TAA	Terminal Arrival Altitude
TACAN	†UHF Tactical Air Navigation Aid
TAF	†Aerodrome forecast
TAR	Terminal Area Surveillance Radar
TAS	True Airspeed
TC	Tropical Cyclone
TCAS	*Traffic Alert and Collision Avoidance System*
TCH	Threshold Crossing Height
TDA	Temporary Danger Area
TDZ	Touch Down Zone
TECR	Technical Reason
TEL	Telephone
TEMPO	†Temporary OR Temporarily
TFC	Traffic
TGL	Touch-and-Go Landing
TGS	Taxiing Guidance System
THR	Threshold
TKOF	Take-off
TLOF	Touchdown and Lift-off Area
TMA	‡Terminal Control Area
TMZ	*A Transponder Mandatory Zone (TMZ) is defined as airspace of defined dimensions wherein the carriage and operation of pressure-altitude reporting transponders is mandatory.*
TNH	Turn Height
TO	To. . . . (place)
TOC	Top Of Climb
TODA	Take-off Distance Available
TODAH	Take-off Distance Available, Helicopter
TORA	Take-off Run Available
TP	Turning Point
TR	Track
TR.....	*Temporary Reserved Area (Followed by Identification)*
TRA	*Temporary Reserved Area*
TRAG	*Temporary Reserved Areas (Gliding)*
TRANS	Transmits OR Transmitter
Transition Altitude	*The altitude at or below which the vertical position of an aircraft is controlled by reference to altitudes.*
Transition Layer	*The airspace between the transition altitude and the transition level.*
Transition Level	*The lowest flight level available for use above the transition altitude.*
TRL	Transition Level
TRP	*Tug Release Point*
TS.....	*Temporary Segregated Area (Followed by Identification)*
TSA	*Temporary Segregated Area*
TURB	Turbulence
TURB-OFF	*(ENR 5.4) Windmotor/Wind Powered Generator - Located Off Shore*
TURB-ON	*(ENR 5.4) Windmotor/Wind Powered Generator - Located On Land*
TVOR	Terminal VOR
TWR	Aerodrome control tower OR aerodrome control
TWY	Taxiway
TWYL	Taxiway-Link
TYP	Type of Aircraft
U	
U/S	Unservicable
UAA	*Unusual Aerial Activity*
UAC	Upper Area Control Centre

GEN 2.2 ABBREVIATIONS USED IN AERONAUTICAL INFORMATION PRODUCTS (continued)

UAR	Upper Air Route
UAS	Unmanned Aircraft System
UAV	*Unmanned Aerial Vehicle*
UDF	Ultra High Frequency Direction Finding Station
UFN	Until Further Notice
UHF	‡Ultra High Frequency (300 to 3000 MHz)
UIC	Upper Information Centre
UIR	‡Upper Flight Information Region
UK	*United Kingdom*
UK FIS	*UK Flight Information Service/Services*
UK Flight Information Service/Services	*UK Flight Information Service/Services (UK FIS). ICAO defines FIS: As a service provided for the purpose of giving advice and information useful for the safe and efficient conduct of flights. Within the UK, the scope of FIS as defined in ICAO Annex 11 is met through the application of any of the UK FIS. However, additional information and/or advice to airspace users are provided to meet their specific requirements. The suite of services together form the UK FIS as detailed in CAP 774 - UK Flight Information Services.*
ULR	Ultra Long Range
UNAP	Unable to Approve
UNL	Unlimited
UNREL	Unreliable
Upper ATS Route:	A designated route within the Upper Airspace CTA.
UTA	Upper Control Area
UTC	‡Co-ordinated Universal Time
V	
VA	Volcanic Ash
VAC	Visual Approach Chart
VAN	Runway Control Van
VAR	Visual-aural radio range
VASIS	†Visual Approach Slope Indicator System
VCY	Vicinity
VDF	Very High Frequency Direction Finding Station
VFR	‡Visual Flight Rules
VHF	‡Very High Frequency (30 to 300 MHz)
VIP	‡Very Important Person
VIS	Visibility
VLF	Very Low Frequency (3 to 30 KHz)
VLOS	*Visual Line Of Sight*
VLR	Very Long Range
VM(C)	*Visual Manoeuv ring (Circling)*
VMC	‡Visual Meteorological Conditions
VOLMET	†Meteorological information for aircraft in flight
VOR	‡Very High Frequency Omnidirectional Radio Range
VORTAC	†VOR and TACAN combination
VPT	Visual manoeuvre with prescribed track
VRB	Variable
VRP	Visual Reference Point
VSP	Vertical speed
VSTOL	*Very Short Take-Off and Landing*
VTOL	Vertical Take-Off and Landing
W	
WAAS	Wide Area Augmentation System
WAC	World Aeronautical Chart — ICAO 1:1 000 000
WAFC	World Area Forecast Centre
WASTE	*(ENR 5.4) Disposal, General*
WBAR	Wing bar lights
WDI	Wind Direction Indicator
WEF	With Effect From OR Effective From
WGS	World Geodetic System
WIE	With Immediate Effect OR Effective Immediately
WILCO	†Will comply
WIP	Work In Progress
WPT	Way-point
WRNG	Warning
WS	Windshear
WT	Weight
WX	Weather
X	
X	Cross
XBAR	Crossbar (of approach lighting system)
XNG	Crossing
Y	
YCZ	Yellow caution zone (runway lighting)
Z	
Z	Co-ordinated Universal Time

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GEN 2.3 CHART SYMBOLS

AERONAUTICAL CHART SYMBOLOGY

AERODROME - Civil
AERODROME - Civil, limited or no facilities
HELIPORT - Civil
AERODROME - Government, available for Civil use
AERODROME - Government
HELIPORT - Government
MICROLIGHT FLYING SITES
DISUSED or ABANDONED Aerodrome
Aerodrome ELEVATION AMSL 250 250
AERODROME - Training Aerodrome: flight training, including circuit training, takes place from this aerodrome. See UK AIP ENR 1.1 & ENR 5.5 ..... T
AERODROME - Unusual Activity: Unusual aerial activities including aerobatic and formation flights take place from this aerodrome. See UK AIP ENR 1.1 & ENR 5.5 ..... U
Aerodrome having one or more IAPs outside Controlled Airspace
AERODROME TRAFFIC ZONE (ATZ)
Customs Aerodromes ..... MANCHESTER 257
AERODROME LIGHT BEACON ..... FIW FIG FIR

GLIDER LAUNCHING SITES
a. Primary activity at locations showing Maximum Altitude of winch launch. AMSL ..... G /2.5
b. Additional activity at locations showing Maximum Altitude of winch launch. AMSL G/2.5
c. Additional activity without cables ..... G
HANG/PARA GLIDING - showing Maximum Altitude of winch launch. AMSL ..... /2.5
FREE-FALL PARACHUTING DROP ZONE
OTHER SPORTING & RECREATIONAL ACTIVITIES ..... K1/3.1 SR
Showing Maximum Altitude AMSL: K = Kite Flying. M = Model Aircraft Flying. R = Rocket Launch Sites. See UK AIP ENR 5.5

RADIO NAVIGATION AIDS
Distance Measuring Equipment (DME)
VHF Omnidirectional Radio Range (VOR)
Collocated, freq-paired VOR/DME
UHF Tactical Air Navigation Aid (TACAN)
Non-Directional Radio Beacon (NDB and NDB(L))
Other Navigational Aids

VOR COMPASS ROSE
Oriented on Magnetic North
Marine Light ..... Fl(3)30·0secs
Lightship ..... FIWR12·0secs
MAXIMUM ELEVATION FIGURES (MEF) 3²
MILITARY AERODROME TRAFFIC ZONE (MATZ) ..... 5NM 4NM MATZ LARS 126·500 5NM
Standard MATZ with two stubs and LARS

CONTROLLED AIRSPACE

Annotation of vertical limits for controlled airspace which have an upper limit of FL195 are shown with a plus (+) after their base level altitude, eg 3000'-FL195 is shown as 3000'+. Where the upper limit is below FL195 both base and upper limits are shown. Airspace vertical limits are defined by altitude/flight level unless otherwise noted.
Wide tint banding denotes the extremity of controlled airspace and narrow tint banding denotes level changes within area.

A — L10 A FL45+
C — CTA C 2500'-FL185
D — CTA D 2500'-3500'
E — TMA E 2000'-6000'
All airspace not covered by classes A-E ..... G
Controlled Airspace or ATZ with Lower Limit as the surface
Low Level Corridor or Special Route ..... 750'-2500'
Radar Advisory Service Zone or Area
Air Traffic Service Unit (ATSU) Area
Transponder Mandatory Zone (TMZ)
Radio Mandatory Zone (RMZ)
RMZ/TMZ
Reporting Point
Compulsory Reporting Point
Altimeter Setting Region (ASR) Boundary ..... PORTREE ASR BELFAST ASR
AIAA and ATA areas
Lines of equal magnetic variation ..... 2.5°W
Special Access Lane Entry/Exit (indicates centre of lane) ..... E/E MERSEY LANE
Visual Reference Point (VRP) Location identified by ..... VRP SANDBACH

AIRSPACE RESTRICTIONS
Prohibited 'P', Restricted 'R' and Danger Areas 'D' are shown with identification number/effective altitude (in thousands of feet AMSL) or a Flight Level. Areas activated by NOTAM are shown with a broken boundary line
HIGH INTENSITY RADIO TRANSMISSION AREA (HIRTA)
BIRD SANCTUARIES
GAS VENTING OPERATIONS GVS/3.1
LASER SITES ..... LASER SITE/UNL

AIR NAVIGATION OBSTACLES
Exceptionally High Obstacle (Lighted) 1000ft or more AGL 1978 (1031)
Single Obstacle (Unlighted) 825 (350)
Multiple Obstacle (Lighted) 1614 (505)
Cable joining Obstacles ..... cables
Wind Turbine (Single Unlighted) 519 (394)
Windfarm (Multiple Lighted) minor group 1726 (328)
Windfarm (Multiple Lighted) major group 1841 (381)

CHANGE (8/25): OTHER SPORTING & RECREATIONAL ACTIVITES ADDED.
AERO INFO DATE 14 MAY 25

GEN 2.3 CHART SYMBOLS (continued)

ADDITIONAL SYMBOLS FOR THE 1:250,000 TOPOGRAPHICAL AIR CHARTS

AERODROMES - Field limits with hard runway pattern... Civil..... Government.....

- Showing disused runways as solid patterns .....

HELIPORT.....

MINOR AERODROME with runway pattern unknown or not portrayable and where flying training may be taking place .....

DISUSED or ABANDONED Aerodrome.
Shown for navigational landmark purposes only .....

Power Transmission Line .....

Power Transmission Line over 200' AGL ..... 200+

Low Level Corridor or Special..... 750'-2500' or

ADDITIONAL SYMBOLS FOR THE 1:50,000 HELICOPTER ROUTES IN THE LONDON CTR & THE LONDON CITY CTR (LONDON HELI CHART)

Annotation of vertical limits for controlled airspace which have an upper limit of FL195 are shown with a plus (+) after their base level/altitude, eg 3000'-FL195 is shown as 3000' +. Where the upper limit is below FL195 both base and upper limits are shown.

D ..... LONDON CTR D SFC-2500' ALT

A ..... LONDON TMA A 2500' ALT +

Cable Car, etc. ..... cables

Power Transmission Line (80'-200' AGL) .....

Power Transmission Line (over 200' AGL) ..... 200+

Hospital Helicopter Landing Site .....

Aerodrome Traffic Zone (ATZ) circle 2.0NM or 2.5NM radius and Local Flying Area within the London CTR .....

Route from BEDFONT to SIPSON & vice versa, as directed by ATC .....

Helicopter Routes .....

Helicopter Routes not available to single-engined Helicopters at night .....

Compulsory & On Request Reporting Point .....

Reporting Points where Holding may be required ..... H H

Route Identifier H3

Maximim Route Altitude between Max Altitude extent markers [ ] ..... VFR 1500 SVFR 1000

Suggested Minimum Route Altitude to achieve required obstacle clearance between consecutive reporting points [△ / ▲] 650

Special Access Lane, Entry/Exit .....

Aerodromes With Instrument Approach Procedures (IAP) Outside Controlled Airspace. Pilots are strongly recommended to contact aerodrome ATSU before flying within 10nm of any aerodrome marked with instrument approach feathers. Note that the feathers only align with the main instrument runway.There may also be approaches to other runways as well.

Runway Extended Centrelines .....

ADDITIONAL SYMBOLS FOR AERODROME AND AIRCRAFT PARKING/DOCKING CHARTS - ICAO

Wind Direction Indicator .....

Illuminated Wind Direction Indicator .....

Aerodrome Reference Point .....

Runway Visual Range .....

Pattern A (CAT I) Holding Position Closest to the Runway .....

Pattern B (CATII/III) Holding Position .....

Intermediate Holding Position .....

Holding Position Signs H1 D2

Helicopter Approach Aiming Point .....

Helicopter Training Area ..... HTA W

Approach Lighting, simple approach - 2 bar (spacing not to scale)

Approach Lighting ..... (spacing not to scale)

Supplementary Lighting (spacing not to scale)

Precision Approach Path Indicator (PAPI).....

Runway Lighting .....

Aerodrome Radar .....

Aerodrome Radar (lit) .....

Aerodrome Radar and Obstacle .....

Aerodrome Radar and Obstacle (lit) .....

Centreline, Threshold and Touch-Down Zone Markings:

09

09

Starter Extension/Stopway .....

Taxiway Centreline, Stands & TRP .....

Apron .....

Operational Taxiway .....

Disused Area .....

Apron/Taxiway/Runway .....

Grass Apron/Taxiway/Runway .....

Hot Spot HS2

Lighting Table .....

LIGHTING	
APCH 05/23	HI 900m with 5 crossbars.
THR 05/23 THR 12/30	HI green W bars. HI green W bars.
RWY 05/23	HI white final 600m yellow. HI white final 600m yellow. HI white final 600m yellow.
TWY	Blue edge between THR 12 and THR 05 round apron. (but not via Hold C) Green C/L through north apron. Guard lights and stop bars at Holds A and F. Guard lights and stop bars at Holds A and F.

CHANGE (1/25): UPDATE, VARIOUS.

AERO INFO DATE 07 NOV 24

GEN 2.3 CHART SYMBOLS (continued)

ADDITIONAL SYMBOLS FOR INSTRUMENT PROCEDURE CHARTS

AERODROME - Civil & Civil, limited or no facilities .....

AERODROME - Government, available for Civil use & Government .....

HELIPORT - Civil & Government ..... (H) (Ⓗ)

MICROLIGHT & GLIDER Flying/Launch Sites ..... (M) (G)

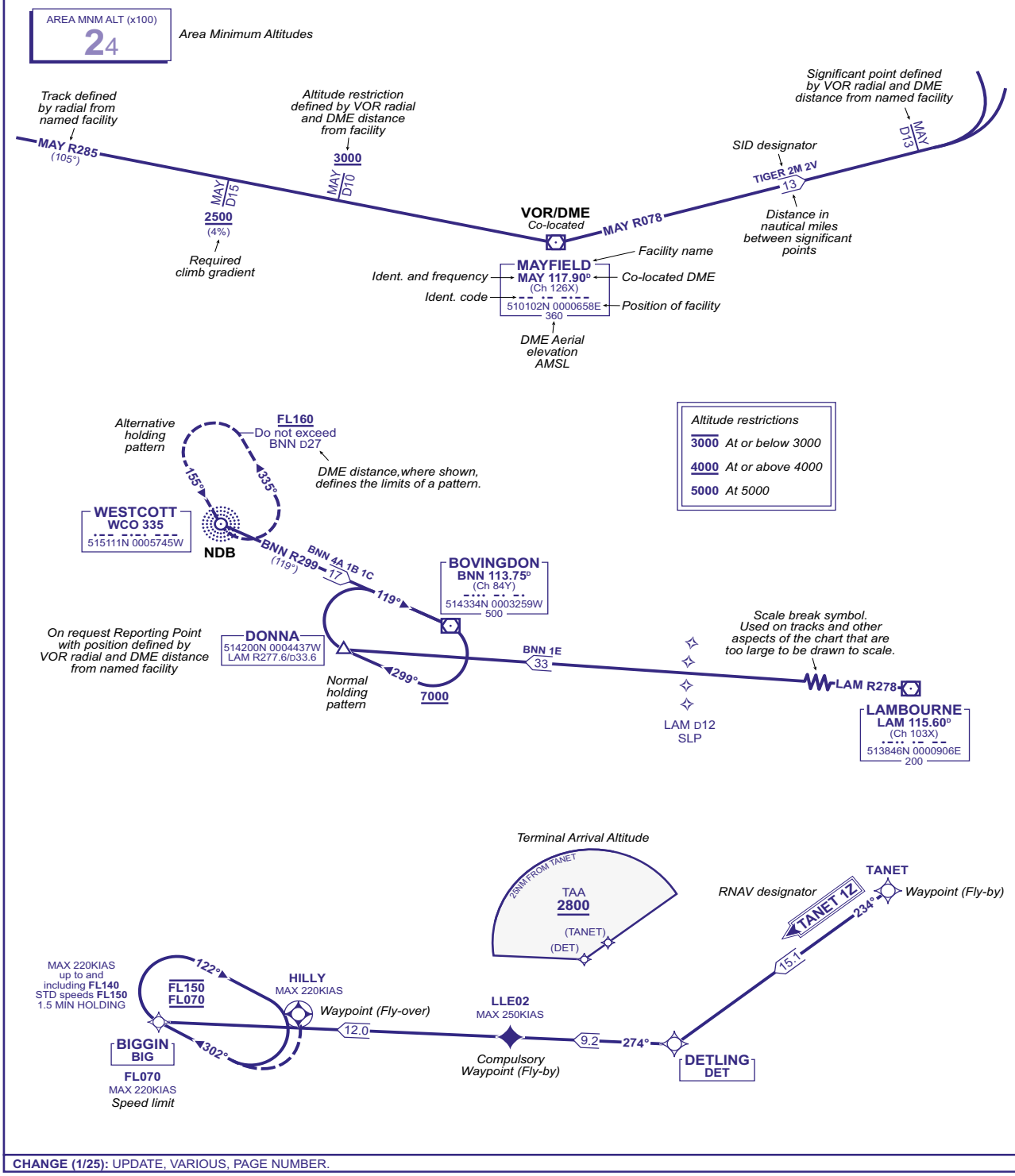
AERODROME - Marine & Disused .....

AIR NAVIGATION OBSTACLES

Single Obstacle (Lighted & Unlighted) .....

Multiple Obstacle (Lighted & Unlighted) ....

Exceptionally High Obstacle (Lighted)
Single & Multiple 1000ft or more AGL .....



CHANGE (1/25): UPDATE, VARIOUS, PAGE NUMBER.

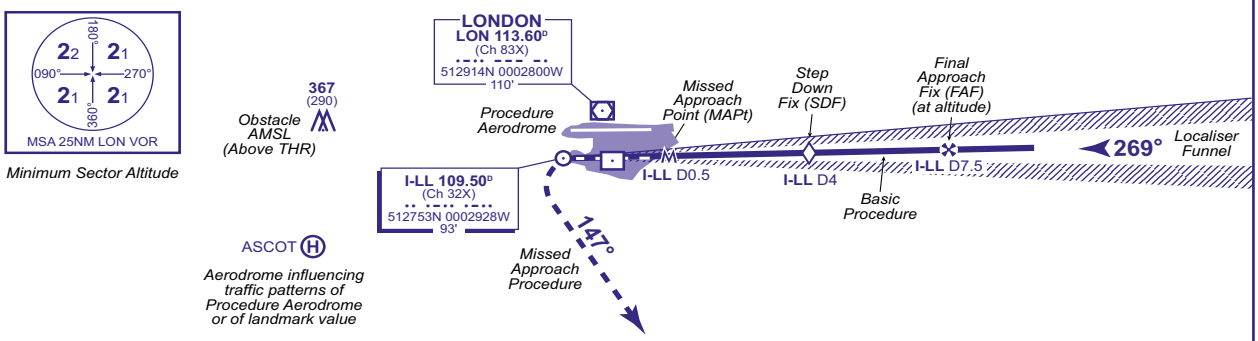
AERO INFO DATE 07 NOV 24

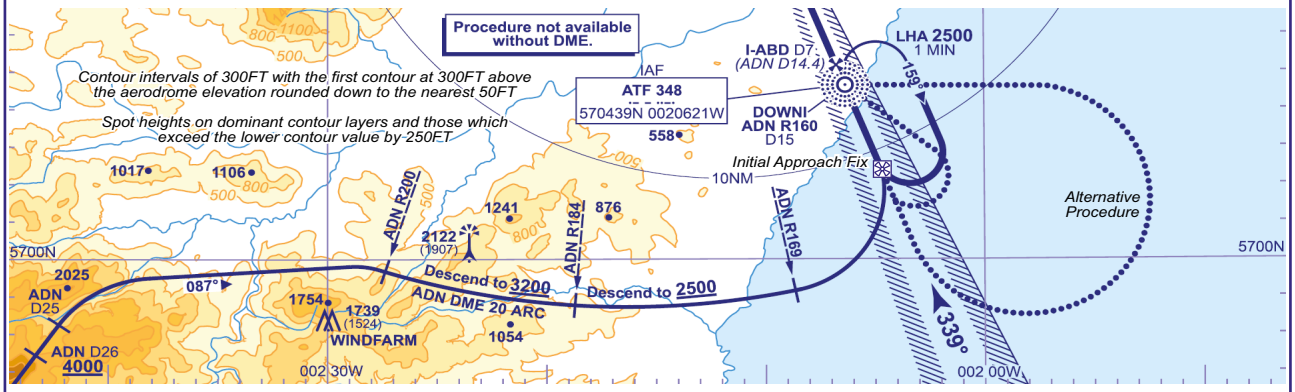
GEN 2.3 CHART SYMBOLS (continued)

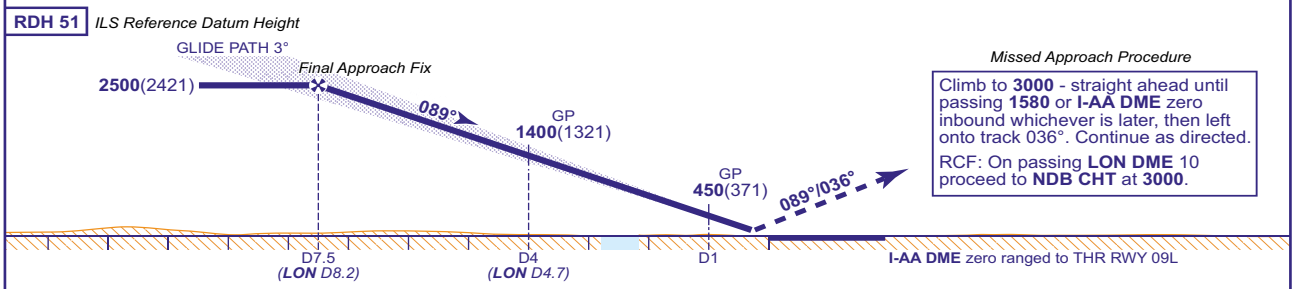
STANDARD INSTRUMENT DEPARTURE (SID) AND ARRIVAL ROUTES (STAR)	
1	SID procedure charts are located in AD 2. They consist of a textual description of the procedure, a graphical illustration and explanatory notes. Only aeronautical information pertinent to the procedure is shown and these charts should therefore be used together with a suitable En-route chart which gives details of Airspace Reservations, Controlled Airspace and ATS routes.
2	SID charts are arranged by Main Exit Points: the various runway directions which can be used to the relevant Main Exit Point will be found on one chart.
3	The procedure charts are drawn to scale. Unless otherwise indicated: a) Distances are in nautical miles; b) Headings, bearings, tracks and radials are in degrees magnetic; c) Heights/altitudes where stated are based on QFE/QNH; d) Horizontal datum WGS 84 (CO-ORDS in DEG MIN SEC).
4	Area Minimum Altitude (AMA). The lowest altitude to be used under instrument meteorological conditions (IMC) that will provide a minimum vertical clearance of 300M (1000FT) or in designated mountainous terrain 600M (2000FT) above all obstacles located in the area specified, rounded up to the nearest (next higher) 30M (100FT).
5	Net Climb Gradient. The climb gradient, expressed as a percentage, that the aircraft is required to achieve to meet standard (ICAO PANS-OPS) obstacle clearance requirements, will be detailed in the textural description of the SID procedure when the required gradient is greater than 3.3% to be achieved. Procedure design gradients are annotated on charts as necessary. A table for conversion of percentage climb gradients to rates of climb for various speeds is given in the GEN 2.6 section.
6	Arrival Charts. STARs or established inbound routes are shown in a similar fashion to SIDs. Tracks terminate at the main inbound holding point from which the Instrument Approach commences.

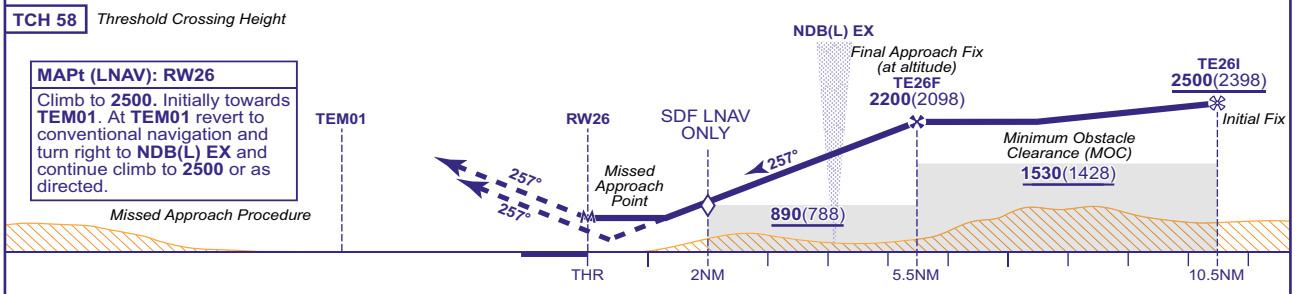
GEN 2.3 CHART SYMBOLS (continued)

ADDITIONAL SYMBOLS FOR INSTRUMENT PROCEDURE CHARTS









CHANGE (1/25): UPDATE, VARIOUS. PAGE NUMBER.

AERO INFO DATE 07 NOV 24

GEN 2.3 CHART SYMBOLS (continued)

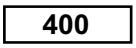
Meteorological Charts-Explanatory Notes

1 Symbols for significant Weather, Tropopause and Freezing Level etc

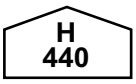
	Thunderstorm
	Tropical cyclone
	Severe squall line
	Hail
	Moderate turbulence
	Severe turbulence
	Mountain waves
	Moderate aircraft icing
	Severe aircraft icing
	Freezing precipitation
	Drizzle
	Rain

	Snow
	Widespread blowing snow
	Shower
	Severe sand or dust haze
	Widespread sandstorm or duststorm
	Widespread haze
	Widespread mist
	Widespread fog
	Freezing fog
	Widespread smoke
	Volcanic eruption
	Radioactive materials in the atmosphere

Note: Altitudes between which phenomena and any associated cloud are expected are indicated by flight levels, top over base or top followed by base. 'XXX' means the phenomenon is expected to continue above and/or below the vertical coverage of the chart. Phenomena of relatively lesser significance, for example light aircraft icing or drizzle, are not usually shown on charts even when the phenomenon is expected. The thunderstorm symbol implies hail, moderate or severe icing and/or turbulence.



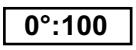
Tropopause spot altitude (eg FL400)



High point or maximum in tropopause topography (eg FL440)



Low point or minimum in tropopause topography (eg FL340)



Freezing level

Boundary of area of significant weather

Boundary of area of clear air turbulance. The CAT area may be marked by a numeral inside a square and a legend describing the numbered CAT area may be entered in the margin



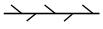
State of sea (wave height in metres)



Sea surface temperature (°C)

2 Fronts and Convergence Zones

	Cold front at the surface
	Warm front at the surface
	Occluded front at the surface
	Quasi-stationary front at the surface

	Convergence line
	Inter-tropical convergence zone
	Position, speed and level of maximum wind
	Widespread strong surface wind

Note: An arrow with associated figures indicates the direction and the speed of the movement of the front (knots). Dots inserted at intervals along the line of a front indicate it is a developing feature (frontogenesis), while bars indicate it is a weakening feature (frontolysis).

CHANGE (2/21): PAGE FORMAT.
AERO INFO DATE 15 DEC 20

GEN 2.3 CHART SYMBOLS (continued)

3 Cloud Abbreviations

3.1 Type

CI = Cirrus
CC = Cirrocumulus
CS = Cirrostratus
AC = Altocumulus
AS = Altostratus
NS = Nimbostratus
SC = Stratocumulus
ST = Stratus
CU = Cumulus
CB = Cumulonimbus (its insertion implies hail moderate or severe icing and/or turbulence)

3.2 Amount

Clouds except CB
FEW = few (1/8 or 2/8)
SCT = scattered (3/8 or 4/8)
BKN = broken (5/8 to 7/8)
OVC = overcast (8/8)
CB only
ISOL = individual CB's (isolated)
OCNL = well separated CB's (occasional)
FRQ = CB's with little or no separation (frequent)
EMBD = thunderstorm clouds contained in layers of other clouds (embedded).

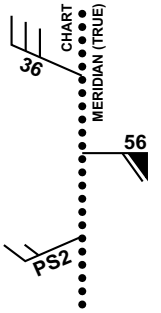
4 Example Weather Abbreviations

RA = rain
DZ = drizzle
SN = snow
SH = showers
FZ = freezing
TS = thunderstorms

Other phenomena may be expressed as a combination of abbreviations or written in full. TS implies severe turbulence and icing.

5 Wind Symbols

5.1 Wind/Temperature Chart

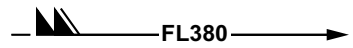


Wind 300°(T) 30 KT, temperature -36°C at arrow head

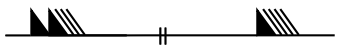
Wind 090°(T) 60 KT, temperature -56°C at arrow head

nd 240°(T) 15 K T, temperature +2°C at arrow head

5.2 Significant Weather/Tropopause/ Maximum Wind Chart



Maximum wind 270°(T), 110 KT at FL380



A double bar marks a speed change of 20 KT, and/or height change of 3000 ft



FL 320
220/400

If the maximum wind speed is 120kt or more, the flight levels between which winds are greater than 80kts is placed below the maximum wind level.
In this example winds are greater than 80kt between FL220 and FL400

CHANGE (2/21): PAGE FORMAT.
AERO INFO DATE 15 DEC 20

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GEN 2.4 LOCATION INDICATORS

† Location indicators with NO connectivity with AFS

Table GEN 2.4-1: 1. Encode

Location	Indicator
ABERDEEN/DYCE	EGPD
ABERPORTH	EGUC
ALDERNEY	EGJA
ALSCOT	EGBL
ANDREW (OIL RIG)	EGRO†
ANDREWSFIELD	EGSL
ANTARCTIC SKY-BLU	EGAT
ASCOT HELIPORT	EGLT†
ASHAIG/ISLE OF SKYE	EGEI†
ASHCROFT	EGCR
BAGBY	EGNG
BARKSTON HEATH	EGYE
BARRA	EGPR
BECCLES	EGSM†
BEDFORD	EGBF
BELFAST ALDERGROVE	EGAA
BELFAST/CITY	EGAC
BEMBRIDGE	EGHJ
BENBECULA	EGPL
BENBECULA (MOD)	EGXM
BENSON	EGUB
BEVERLEY/LINLEY HILL	EGNY
BIGGIN HILL	EGKB
BIRMINGHAM	EGBB
BLACKBUSHE	EGLK
BLACKPOOL	EGNH
BODMIN	EGLA
BOSCOMBE DOWN	EGDM
BOULMER (MOD)	EGQM
BOURNEMOUTH	EGHH
BRAMPTON (MOD)	EGYB
BRIMPTON	EGLP
BRISTOL	EGGD
BRIZE NORTON	EGVN
BROOKLANDS	EGLB†
BROUGH	EGNB†
BRUCE (OIL RIG)	EGRK†
CACC MID EAST	EGIF
CACC MID WEST	EGIE
CACC NORTH EAST	EGID
CACC NORTH WEST	EGIC
CACC SCOTLAND/NORTHERN IRELAND	EGIA
CACC SOUTH EAST	EGIH
CACC SOUTH WEST	EGIG
CACC WALES	EGIB
CAERNARFON	EGCK
CAMBRIDGE	EGSC
CAMPBELTOWN	EGEC
CARDIFF	EGFF
CARDIFF/TREMORFA FORESHORE HELIPORT	EGFC†
CARLISLE	EGNC
CHALGROVE	EGLJ
CHALLOCK	EGKE†
CHANNEL ISLANDS	EGJT
CHELTENHAM HELIPORT	EGBC†

Location	Indicator
CHICHESTER/GOODWOOD	EGHR
CLACTON	EGSQ
CLAIR (OIL RIG)	EGRF†
CLEETON (OIL RIG)	EGRT†
COLERNE	EGUO
COLL	EGEL†
COLONSAY	EGEY†
COMPTON ABBAS	EGHA
CONINGSBY	EGXC
CORMORANT ALPHA (OIL RIG)	EGRG†
COSFORD	EGWC
COTTESMORE	EGXJ
COVENTRY	EGBE
CRANFIELD	EGTC
CRANWELL	EGYD
CROWFIELD	EGSO†
CULDROSE	EGDR
CULTER HELIPAD	EGEA
CUMBERNAULD	EGPG
DAMYNS HALL	EGML
DEANLAND	EGKL†
DENHAM	EGLD
DERBY	EGBD
DISHFORTH	EGXD
DONCASTER SHEFFIELD	EGCN
DONNA NOOK (MOD)	EGXS
DUNDEE	EGPN
DUNKESWELL	EGTU
DUNSFOLD	EGTD
DUXFORD	EGSU
EAGLESCOTT	EGHU†
EARLS COLNE	EGSR
EAST MIDLANDS	EGNX
EDAY	EGED†
EDINBURGH	EGPH
ELMSETT	EGST
ELSTREE	EGTR
ENNISKILLEN/ST ANGELO	EGAB
ENSTONE	EGTN
EXETER	EGTE
FAIR ISLE	EGEF
FAIRFORD	EGVA
FAIROAKS	EGTF
FARNBOROUGH	EGLF
FARTHING CORNER	EGMF
FASLANE (MOD)	EGXO
FENLAND	EGCL
FIFE	EGPJ
FOREST MOOR	EGXF
FOWLMERE	EGMA
FULL SUTTON	EGNU
FULMAR ALPHA (OIL RIG)	EGRN†
GARVIE ISLAND (MOD)	EGQC†
GATWICK CAA SRG (AVIATION HOUSE)	EGGR
GLASGOW	EGPF†

GEN 2.4 LOCATION INDICATORS (continued)

Location	Indicator
GLASGOW CITY HELIPORT	EGEG†
GLASGOW WEATHER CENTRE	EGRA
GLOUCESTERSHIRE	EGBJ
GOODWOOD RACECOURSE HELIPORT	EGKG†
GUERNSEY	EGJB
HALLEY RESEARCH STATION	EGAH
HALTON	EGWN†
HARDING (OIL RIG)	EGRL†
HAVERFORDWEST	EGFE†
HAWARDEN	EGNR
HENSTRIDGE	EGHS
HEREFORD	EGVH
HIGH WYCOMBE (MET)	EGRH
HIGH WYCOMBE (MOD)	EGUH
HM SHIPS (ALL)	EGYY
HOLBEACH (MOD)	EGYH
HONINGTON	EGXH
HQ 2 GROUP (MOD)	EGDH
HQ SPTA	EGDS
HUCKNALL	EGNA†
HUMBERSIDE	EGNJ
INVERNESS	EGPE
ISLAY	EGPI
ISLE OF MAN	EGNS
ISLE OF WIGHT/SANDOWN	EGHN
ISLEWORTH	EGLI
JERSEY	EGJJ
JERSEY MET	EGJX†
KEMBLE	EGBP
KENLEY (MOD)	EGKN†
KINLOSS	EGQK
KIRKNEWTON (MOD)	EGKT†
KIRKWALL	EGPA
KITTYHAWK	EGKF
LAKENHEATH	EGUL
LAND'S END	EGHC
LANGFORD LODGE	EGAL†
LASHAM	EGHL
LASHENDEN/HEADCORN	EGKH
LECONFIELD	EGXV
LEE-ON-SOLENT	EGHF
LEEDS BRADFORD	EGNM
LEEDS EAST	EGCM†
LEEDS HELIPORT	EGNP†
LEEMING	EGXE
LEICESTER	EGBG
LERWICK/TINGWALL	EGET
LEUCHARS	EGQL
LITTLE GRANSDEN	EGMJ†
LITTLE RISSINGTON	EGVL†
LIVERPOOL	EGGP
LLANBEDR	EGFD†
LONDON (CAA HQ)	EGGA
LONDON (DFT AVIATION DIRECTORATE)	EGGC
LONDON ACC (CIVIL)	EGTT
LONDON AREA	EGGO
LONDON CITY	EGLC
LONDON GATWICK	EGKK

Location	Indicator
LONDON HEATHROW	EGLL
LONDON HELIPORT	EGLW
LONDON LUTON	EGGW
LONDON STANSTED	EGSS
LONDONDERRY/EGLINTON	EGAE
LOSSIEMOUTH	EGQS
LOWESTOFT HARBOUR	EGMW†
LYDD	EGMD
LYNEHAM	EGDL
MAGNUS (OIL RIG)	EGRE†
MANCHESTER	EGCC
MANCHESTER BARTON	EGCB
MANCHESTER/WOODFORD	EGCD†
MANSTON	EGMH
MARHAM	EGYM
MARNOCK (OIL RIG)	EGRS†
MARSHLAND, WISBEACH	EGSI†
MAYPOLE	EGHB
MCA FALMOUTH	EGQF†
MERRYFIELD	EGDI†
MET OFFICE ABERDEEN	EGRQ
MET OFFICE EXETER	EGRR
MET OFFICE LONDON	EGRB†
MIDDLE WALLOP	EGVP
MILDENHALL	EGUN
MILLER (OIL RIG)	EGRM†
MOD UK AIR	EGWB
MOD UK NAVY	EGWI†
MOUNT PLEASANT	EGYP
MOUNTWISE	EGDB
MUHARRAQ (RAF)	EGYR
MUNGO (OIL RIG)	EGRP†
MURDOCH (OIL RIG)	EGRU†
NEATISHEAD (MOD)	EGUJ
NETHERAVON	EGDN
NETHERTHORPE	EGNF
NEWCASTLE	EGNT
NEWMARKET RACECOURSE	EGSW†
NEWQUAY	EGHQ
NEWTOWNARDS	EGAD
NORTH RONALDSAY	EGEN†
NORTH WEALD	EGSX
NORTHAMPTON/SYWELL	EGBK
NORTHOLT	EGWU†
NORTHOLT (AIDU)	EGVC
NORTHOLT (RN NAIC)	EGXA
NORTHWOOD (MOD)	EGWX
NORWICH	EGSH
NOTTINGHAM	EGBN
OAKSEY PARK	EGTW†
OBAN	EGEO
ODIHAM	EGVO
OLD BUCKENHAM	EGSV
OLD SARUM	EGLS
OLD WARDEN	EGTH
OXFORD	EGTK
PAPA WESTRAY	EGEP†
PEMBREY	EGFP†

GEN 2.4 LOCATION INDICATORS (continued)

Location	Indicator
PEMBRY (MOD)	EGOP†
PENZANCE HELIPORT	EGHK†
PERRANPORTH	EGTP
PERTH/SCONE	EGPT
PETERBOROUGH/CONINGTON	EGSF
PETERBOROUGH/SIBSON	EGSP
PETERHEAD/LONGSIDE HELIPORT	EGPS†
PLYMOUTH (MIL)	EGVE
POPHAM	EGHP
PORTLAND HELIPORT	EGDP†
PORTSMOUTH/FLEETLANDS	EGVF
PREDANNACK	EGDO†
PRESTWICK	EGPK
RAF MOBILES	EGWW
RAF MONA	EGOQ†
RALEIGH (MOD)	EGVR
RAVENSPURN N (OIL RIG)	EGRV†
REDHILL	EGKR
RETFORD/GAMSTON	EGNE
ROCHESTER	EGTO
ROTHERA RESEARCH STATION	EGAR
SANDAY	EGES†
SANDTOFT	EGCF
SCHIEHALLION (OIL RIG)	EGRI†
SCILLY ISLES/ST MARY'S	EGHE
SCOTTISH ACC (CIVIL)	EGPX
SEETHING	EGSJ
SHANWICK OAC	EGGX
SHAWBURY	EGOS
SHERBURN-IN-ELMET	EGCJ
SHIPDHAM	EGSA†
SHOBDON	EGBS
SHOREHAM	EGKA
SILVERSTONE HELIPORT	EGBV
SLEAP	EGCV
SOUTH CERNEY (MOD)	EGCY†
SOUTHAMPTON	EGHI
SOUTHEND	EGMC
SOUTHPORT BIRKDALE SANDS	EGCO†
SPADEADAM (MOD)	EGOM
ST ATHAN	EGSY†
STAPLEFORD	EGSG
STORNOWAY	EGPO
STRONSAY	EGER†
STRUBBY HELIPORT	EGCG
STURGATE	EGCS
SUMBURGH	EGPB
SWANSEA	EGFH
SWANTON MORLEY (MOD)	EGYX†
SWANWICK ATCC (MIL)	EGVV
SYERSTON (MOD)	EGXY
TAIN (MOD)	EGQA†
TATENHILL	EGBM
TEESSIDE INTERNATIONAL	EGNV
TERNHILL	EGOE
THORNE	EGCP†
THRUXTON	EGHO†
THURROCK	EGMT†
TILSTOCK	EGCT†
TIREE	EGPU
TOPCLIFFE	EGXZ
TRESCO HELIPORT	EGHT†
TRURO	EGHY†
TURWESTON	EGBT
UK AFTN/CIDIN CENTRE	EGGG
UK AIRPROX BOARD	EGGF
UK CACC (BLOCKED 9)	EGGT
UK MCC	EGQP
UK MOTNE CENTRE	EGGY
UK NOTAM OFFICE(NOF)	EGGN
UNST	EGPW†
UXBRIDGE	EGUU
VALLEY	EGOV
WADDINGTON	EGXW
WALNEY	EGNL
WARTON	EGNO
WATTISHAM	EGUW
WELLESBOURNE MOUNTFORD	EGBW
WELSHPOOL	EGCW
WEST FREUGH	EGOY
WEST SOLE (OIL RIG)	EGRW†
WEST WALES/ABERPORTH	EGFA†
WESTRAY	EGEW†
WHALSEY	EGEH†
WHITE WALTHAM	EGLM
WICK	EGPC
WICKENBY	EGNW
WITTERING	EGXT
WOLVERHAMPTON/HALFPENNY GREEN	EGBO
WOODVALE	EGOW
WYCOMBE AIR PARK/BOOKER	EGTB
WYTON	EGUY
YEOVIL/WESTLAND	EGHG
YEOVILTON	EGDY

Table GEN 2.4-2: 2. Decode

Indicator	Location
EGAA	BELFAST ALDERGROVE
EGAB	ENNISKILLEN/ST ANGELO
EGAC	BELFAST/CITY
EGAD	NEWTOWNARDS
EGAE	LONDONDERRY/EGLINTON
EGAH	HALLEY RESEARCH STATION
EGAL†	LANGFORD LODGE
EGAR	ROTHERA RESEARCH STATION
EGAT	ANTARCTIC SKY-BLU
EGBB	BIRMINGHAM
EGBC†	CHELTENHAM HELIPORT
EGBD	DERBY
EGBE	COVENTRY
EGBF	BEDFORD
EGBG	LEICESTER
EGBJ	GLOUCESTERSHIRE
EGBK	NORTHAMPTON/SYWELL
EGBL	ALSCOT

GEN 2.4 LOCATION INDICATORS (continued)

Indicator	Location
EGBM	TATENHILL
EGBN	NOTTINGHAM
EGBO	WOLVERHAMPTON/HALFPENNY GREEN
EGBP	KEMBLE
EGBS	SHOBDON
EGBT	TURWESTON
EGBV	SILVERSTONE HELIPORT
EGBW	WELLESBOURNE MOUNTFORD
EGCB	MANCHESTER BARTON
EGCC	MANCHESTER
EGCD†	MANCHESTER/WOODFORD
EGCF	SANDTOFT
EGCG	STRUBBY HELIPORT
EGCJ	SHERBURN-IN-ELMET
EGCK	CAERNARFON
EGCL	FENLAND
EGCM†	LEEDS EAST
EGCN	DONCASTER SHEFFIELD
EGCO†	SOUTHPORT BIRKDALE SANDS
EGCP†	THORNE
EGCR	ASHCROFT
EGCS	STURGATE
EGCT†	TILSTOCK
EGCV	SLEAP
EGCW	WELSHPOOL
EGCY†	SOUTH CERNEY (MOD)
EGDB	MOUNTWISE
EGDH	HQ 2 GROUP (MOD)
EGDI†	MERRYFIELD
EGDL	LYNEHAM
EGDM	BOSCOMBE DOWN
EGDN	NETHERAVON
EGDO†	PREDANNACK
EGDP†	PORTLAND HELIPORT
EGDR	CULDROSE
EGDS	HQ SPTA
EGDY	YEOVILTON
EGEA	CULTER HELIPAD
EGEC	CAMPBELTOWN
EGED†	EDAY
EGEF	FAIR ISLE
EGEG†	GLASGOW CITY HELIPORT
EGEH†	WHALSEY
EGEI†	ASHAIG/ISLE OF SKYE
EGEL†	COLL
EGEN†	NORTH RONALDSAY
EGEO	OBAN
EGEP†	PAPA WESTRAY
EGER†	STRONSAY
EGES†	SANDAY
EGET	LERWICK/TINGWALL
EGEW†	WESTRAY
EGEY†	COLONSAY
EGFA†	WEST WALES/ABERPORTH
EGFC†	CARDIFF/TREMORFA FORESHORE HELIPORT
EGFD†	LLANBEDR
EGFE†	HAVERFORDWEST
EGFF	CARDIFF

Indicator	Location
EGFH	SWANSEA
EGFP†	PEMBREY
EGGA	LONDON (CAA HQ)
EGGC	LONDON (DFT AVIATION DIRECTORATE)
EGGD	BRISTOL
EGGF	UK AIRPROX BOARD
EGGG	UK AFTN/CIDIN CENTRE
EGGN	UK NOTAM OFFICE(NOF)
EGGO	LONDON AREA
EGGP	LIVERPOOL
EGGR	GATWICK CAA SRG (AVIATION HOUSE)
EGGT	UK CACC (BLOCKED 9)
EGGW	LONDON LUTON
EGGX	SHANWICK OAC
EGGY	UK MOTNE CENTRE
EGHA	COMPTON ABBAS
EGHB	MAYPOLE
EGHC	LAND'S END
EGHE	SCILLY ISLES/ST MARY'S
EGHF	LEE-ON-SOLENT
EGHG	YEOVIL/WESTLAND
EGHH	BOURNEMOUTH
EGHI	SOUTHAMPTON
EGHJ	BEMBRIDGE
EGHK†	PENZANCE HELIPORT
EGHL	LASHAM
EGHN	ISLE OF WIGHT/SANDOWN
EGHO†	THRUXTON
EGHP	POPHAM
EGHQ	NEWQUAY
EGHR	CHICHESTER/GOODWOOD
EGHS	HENSTRIDGE
EGHT†	TRESCO HELIPORT
EGHU†	EAGLESCOTT
EGHY†	TRURO
EGIA	CACC SCOTLAND/NORTHERN IRELAND
EGIB	CACC WALES
EGIC	CACC NORTH WEST
EGID	CACC NORTH EAST
EGIE	CACC MID WEST
EGIF	CACC MID EAST
EGIG	CACC SOUTH WEST
EGIH	CACC SOUTH EAST
EGJA	ALDERNEY
EGJB	GUERNSEY
EGJJ	JERSEY
EGJT	CHANNEL ISLANDS
EGJX†	JERSEY MET
EGKA	SHOREHAM
EGKB	BIGGIN HILL
EGKE†	CHALLOCK
EGKF	KITTYHAWK
EGKG†	GOODWOOD RACECOURSE HELIPORT
EGKH	LASHENDEN/HEADCORN
EGKK	LONDON GATWICK
EGKL†	DEANLAND
EGKN†	KENLEY (MOD)
EGKR	REDHILL

GEN 2.4 LOCATION INDICATORS (continued)

Indicator	Location
EGKT†	KIRKNEWTON (MOD)
EGLA	BODMIN
EGLB†	BROOKLANDS
EGLC	LONDON CITY
EGLD	DENHAM
EGLF	FARNBOROUGH
EGLI	ISLEWORTH
EGLJ	CHALGROVE
EGLK	BLACKBUSHE
EGLL	LONDON HEATHROW
EGLM	WHITE WALTHAM
EGLP	BRIMPTON
EGLS	OLD SARUM
EGLT†	ASCOT HELIPORT
EGLW	LONDON HELIPORT
EGMA	FOWLMERE
EGMC	SOUTHEND
EGMD	LYDD
EGMF	FARTHING CORNER
EGMH	MANSTON
EGMJ†	LITTLE GRANSDEN
EGML	DAMYNS HALL
EGMT†	THURROCK
EGMW†	LOWESTOFT HARBOUR
EGNA†	HUCKNALL
EGNB†	BROUGH
EGNC	CARLISLE
EGNE	RETFORD/GAMSTON
EGNF	NETHERTHORPE
EGNG	BAGBY
EGNH	BLACKPOOL
EGNJ	HUMBERSIDE
EGNL	WALNEY
EGNM	LEEDS BRADFORD
EGNO	WARTON
EGNP†	LEEDS HELIPORT
EGNR	HAWARDEN
EGNS	ISLE OF MAN
EGNT	NEWCASTLE
EGNU	FULL SUTTON
EGNV	TEESSIDE INTERNATIONAL
EGNW	WICKENBY
EGNX	EAST MIDLANDS
EGNY	BEVERLEY/LINLEY HILL
EGOE	TERNHILL
EGOM	SPADEADAM (MOD)
EGOP†	PEMBRY (MOD)
EGOQ†	RAF MONA
EGOS	SHAWBURY
EGOV	VALLEY
EGOW	WOODVALE
EGOY	WEST FREUGH
EGPA	KIRKWALL
EGPB	SUMBURGH
EGPC	WICK
EGPD	ABERDEEN/DYCE
EGPE	INVERNESS
EGPF†	GLASGOW

Indicator	Location
EGPG	CUMBERNAULD
EGPH	EDINBURGH
EGPI	ISLAY
EGPJ	FIFE
EGPK	PRESTWICK
EGPL	BENBECULA
EGPN	DUNDEE
EGPO	STORNOWAY
EGPR	BARRA
EGPS†	PETERHEAD/LONGSIDE HELIPORT
EGPT	PERTH/SCONE
EGPU	TIREE
EGPW†	UNST
EGPX	SCOTTISH ACC (CIVIL)
EGQA†	TAIN (MOD)
EGQC†	GARVIE ISLAND (MOD)
EGQF†	MCA FALMOUTH
EGQK	KINLOSS
EGQL	LEUCHARS
EGQM	BOULMER (MOD)
EGQP	UK MCC
EGQS	LOSSIEMOUTH
EGRA	GLASGOW WEATHER CENTRE
EGRB†	MET OFFICE LONDON
EGRE†	MAGNUS (OIL RIG)
EGRF†	CLAIR (OIL RIG)
EGRG†	CORMORANT ALPHA (OIL RIG)
EGRH	HIGH WYCOMBE (MET)
EGRI†	SCHIEHALLION (OIL RIG)
EGRK†	BRUCE (OIL RIG)
EGRL†	HARDING (OIL RIG)
EGRM†	MILLER (OIL RIG)
EGRN†	FULMAR ALPHA (OIL RIG)
EGRO†	ANDREW (OIL RIG)
EGRP†	MUNGO (OIL RIG)
EGRQ	MET OFFICE ABERDEEN
EGRR	MET OFFICE EXETER
EGRS†	MARNOCK (OIL RIG)
EGRT†	CLEETON (OIL RIG)
EGRU†	MURDOCH (OIL RIG)
EGRV†	RAVENSPURN N (OIL RIG)
EGRW†	WEST SOLE (OIL RIG)
EGSA†	SHIPDHAM
EGSC	CAMBRIDGE
EGSF	PETERBOROUGH/CONINGTON
EGSG	STAPLEFORD
EGSH	NORWICH
EGSI†	MARSHLAND, WISBEACH
EGSJ	SEETHING
EGSL	ANDREWSFIELD
EGSM†	BECCLES
EGSO†	CROWFIELD
EGSP	PETERBOROUGH/SIBSON
EGSQ	CLACTON
EGSR	EARLS COLNE
EGSS	LONDON STANSTED
EGST	ELMSETT
EGSU	DUXFORD

GEN 2.4 LOCATION INDICATORS (continued)

Indicator	Location
EGSV	OLD BUCKENHAM
EGSW†	NEWMARKET RACECOURSE
EGSX	NORTH WEALD
EGSY†	ST ATHAN
EGTB	WYCOMBE AIR PARK/BOOKER
EGTC	CRANFIELD
EGTD	DUNSFOLD
EGTE	EXETER
EGTF	FAIROAKS
EGTH	OLD WARDEN
EGTK	OXFORD
EGTN	ENSTONE
EGTO	ROCHESTER
EGTP	PERRANPORTH
EGTR	ELSTREE
EGTT	LONDON ACC (CIVIL)
EGTU	DUNKESWELL
EGTW†	OAKSEY PARK
EGUB	BENSON
EGUC	ABERPORTH
EGUH	HIGH WYCOMBE (MOD)
EGUJ	NEATISHEAD (MOD)
EGUL	LAKENHEATH
EGUN	MILDENHALL
EGUO	COLERNE
EGUU	UXBRIDGE
EGUW	WATTISHAM
EGUY	WYTON
EGVA	FAIRFORD
EGVC	NORTHOLT (AIDU)
EGVE	PLYMOUTH (MIL)
EGVF	PORTSMOUTH/FLEETLANDS
EGVH	HEREFORD
EGVL†	LITTLE RISSINGTON
EGVN	BRIZE NORTON
EGVO	ODIHAM
EGVP	MIDDLE WALLOP
EGVR	RALEIGH (MOD)
EGVV	SWANWICK ATCC (MIL)
EGWB	MOD UK AIR
EGWC	COSFORD
EGWI†	MOD UK NAVY
EGWN†	HALTON
EGWU†	NORTHOLT
EGWW	RAF MOBILES
EGWX	NORTHWOOD (MOD)
EGXA	NORTHOLT (RN NAIC)
EGXC	CONINGSBY
EGXD	DISHFORTH
EGXE	LEEMING
EGXF	FOREST MOOR
EGXH	HONINGTON
EGXJ	COTTESMORE
EGXM	BENBECULA (MOD)
EGXO	FASLANE (MOD)
EGXS	DONNA NOOK (MOD)
EGXT	WITTERING
EGXV	LECONFIELD

Indicator	Location
EGXW	WADDINGTON
EGXY	SYERSTON (MOD)
EGXZ	TOPCLIFFE
EGYB	BRAMPTON (MOD)
EGYD	CRANWELL
EGYE	BARKSTON HEATH
EGYH	HOLBEACH (MOD)
EGYM	MARHAM
EGYP	MOUNT PLEASANT
EGYR	MUHARRAQ (RAF)
EGYX†	SWANTON MORLEY (MOD)
EGYY	HM SHIPS (ALL)

GEN 2.5 LIST OF RADIO NAVIGATION AIDS

ID	Station name	Aid	Purpose	Station name	Aid	ID	Purpose
ADN	ABERDEEN	DME	AE	ABERDEEN	DME	ADN	AE
ADN	ABERDEEN	VOR	AE	ABERDEEN	VOR	ADN	AE
ALD	ALDERNEY	NDB	A	ABERDEEN/DYCE	NDB	ATF	A
ATF	ABERDEEN/DYCE	NDB	A	ABERDEEN/DYCE	DME	IABD	A
BBA	BENBECULA	NDB	A	ABERDEEN/DYCE 34 CAT I	ILS	IABD	A
BCL	BENBECULA	DME	A	ABERDEEN/DYCE	DME	IAX	A
BCN	BRECON	DME	E	ABERDEEN/DYCE 16 CAT I	ILS	IAX	A
BCN	BRECON	DME	A	ALDERNEY	NDB	ALD	A
BCN	BRECON	VOR	A	BARKWAY	DME	BKY	E
BEL	BELFAST	DME	AE	BARKWAY	DME	BKY	A
BEL	BELFAST	VOR	AE	BARKWAY	VOR	BKY	A
BEN	BENBECULA	DME	A	BARRA	NDB	BRR	A
BEN	BENBECULA	DME	E	BELFAST	DME	BEL	AE
BEN	BENBECULA	VOR	A	BELFAST	VOR	BEL	AE
BHD	BERRY HEAD	DME	E	BELFAST ALDERGROVE	DME	IAG	A
BHD	BERRY HEAD	VOR	E	BELFAST ALDERGROVE 25 CAT III	ILS	IAG	A
BHX	BIRMINGHAM	NDB	A	BELFAST ALDERGROVE	DME	IFT	A
BIA	BOURNEMOUTH	NDB	A	BELFAST ALDERGROVE 17 CAT I	ILS	IFT	A
BIG	BIGGIN	DME	A	BELFAST/CITY	NDB	HB	A
BIG	BIGGIN	DME	E	BELFAST/CITY	DME	IBFH	A
BIG	BIGGIN	VOR	A	BELFAST/CITY 22 CAT I	ILS	IBFH	A
BKY	BARKWAY	DME	E	BELFAST/CITY	DME	IHBD	A
BKY	BARKWAY	DME	A	BELFAST/CITY 04 CAT I	ILS	IHBD	A
BKY	BARKWAY	VOR	A	BENBECULA	NDB	BBA	A
BLK	BLACKBUSHE	NDB	A	BENBECULA	DME	BCL	A
BNN	BOVINGDON	DME	A	BENBECULA	DME	BEN	E
BNN	BOVINGDON	DME	E	BENBECULA	DME	BEN	A
BNN	BOVINGDON	VOR	A	BENBECULA	VOR	BEN	A
BPK	BROOKMANS PARK	DME	A	BERRY HEAD	DME	BHD	E
BPK	BROOKMANS PARK	DME	E	BERRY HEAD	VOR	BHD	E
BPK	BROOKMANS PARK	VOR	A	BIGGIN	DME	BIG	E
BPL	BLACKPOOL	NDB	A	BIGGIN	DME	BIG	A
BRI	BRISTOL	NDB	A	BIGGIN	VOR	BIG	A
BRR	BARRA	NDB	A	BIGGIN HILL	DME	IBGH	A
BUR	BURNHAM	NDB	A	BIGGIN HILL 21 CAT I	ILS	IBGH	A
CAM	CAMBRIDGE	NDB	A	BIRMINGHAM	NDB	BHX	A
CBL	CAMPBELTOWN	NDB	A	BIRMINGHAM	DME	IBIR	A
CDF	CARDIFF	NDB	A	BIRMINGHAM 15 CAT III	ILS	IBIR	A
CHT	CHILTERN	NDB	A	BIRMINGHAM	DME	IBM	A
CIT	CRANFIELD	NDB	A	BIRMINGHAM 33 CAT III	ILS	IBM	A
CLN	CLACTON	DME	AE	BLACKBUSHE	NDB	BLK	A
CLN	CLACTON	VOR	AE	BLACKPOOL	NDB	BPL	A
CPT	COMPTON	DME	E	BLACKPOOL	DME	IBPL	A
CPT	COMPTON	VOR	E	BLACKPOOL 28 CAT I	ILS	IBPL	A
DCS	DEAN CROSS	DME	E	BOURNEMOUTH	NDB	BIA	A
DET	DETLING	DME	E	BOURNEMOUTH	DME	IBH	A
DET	DETLING	DME	A	BOURNEMOUTH 26 CAT III	ILS	IBH	A
DET	DETLING	VOR	A	BOURNEMOUTH	DME	IBMH	A
DFO	MADFORD	DME	E	BOURNEMOUTH 08 CAT I	ILS	IBMH	A
DND	DUNDEE	NDB	A	BOVINGDON	DME	BNN	E
DTY	DAVENTRY	DME	E	BOVINGDON	DME	BNN	A
DTY	DAVENTRY	DME	A	BOVINGDON	VOR	BNN	A
DTY	DAVENTRY	VOR	A	BRECON	DME	BCN	A
DUD	DUNDONALD	DME	E	BRECON	DME	BCN	E
DUF	GREAT DUN FELL	DME	E	BRECON	VOR	BCN	A
DVR	DOVER	DME	E	BRISTOL	NDB	BRI	A
DVR	DOVER	DME	A	BRISTOL	DME	IBON	A

GEN 2.5 LIST OF RADIO NAVIGATION AIDS (continued)

ID	Station name	Aid	Purpose	Station name	Aid	ID	Purpose
DVR	DOVER	VOR	A	BRISTOL 09 CAT I	ILS	IBON	A
EAS	SOUTHAMPTON	NDB	A	BRISTOL	DME	IBTS	A
EDN	EDINBURGH	NDB	A	BRISTOL 27 CAT III	ILS	IBTS	A
EGT	LONDONDERRY/EGLINTON	NDB	A	BROOKMANS PARK	DME	BPK	A
EME	EAST MIDLANDS	NDB	A	BROOKMANS PARK	DME	BPK	E
EMW	EAST MIDLANDS	NDB	A	BROOKMANS PARK	VOR	BPK	A
EPM	EPSOM	NDB	A	BURNHAM	NDB	BUR	A
EX	EXETER	NDB	A	CAMBRIDGE	NDB	CAM	A
GAM	GAMSTON	DME	A	CAMBRIDGE	DME	ICMG	A
GAM	GAMSTON	DME	AE	CAMBRIDGE 23 CAT I	ILS	ICMG	A
GAM	GAMSTON	VOR	A	CAMPBELTOWN	NDB	CBL	A
GLO	GREEN LOWTHER	DME	E	CARDIFF	NDB	CDF	A
GLW	GLASGOW	NDB	A	CARDIFF	DME	ICDF	A
GOW	GLASGOW	DME	A	CARDIFF 12 CAT I	ILS	ICDF	A
GOW	GLASGOW	DME	E	CARDIFF	DME	ICWA	A
GOW	GLASGOW	VOR	A	CARDIFF 30 CAT I	ILS	ICWA	A
GST	GLOUCESTERSHIRE	NDB	A	CHILTERN	NDB	CHT	A
GUR	GUERNSEY	DME	A	CLACTON	DME	CLN	AE
GUR	GUERNSEY	VOR	A	CLACTON	VOR	CLN	AE
GWC	GOODWOOD	DME	E	COMPTON	DME	CPT	E
GWC	GOODWOOD	DME	A	COMPTON	VOR	CPT	E
GWC	GOODWOOD	VOR	A	CRANFIELD	NDB	CIT	A
HAW	HAWARDEN	NDB	A	CRANFIELD	DME	ICR	A
HB	BELFAST/CITY	NDB	A	CRANFIELD	LOC	ICR	A
HEN	HENTON	NDB	AE	DAVENTRY	DME	DTY	A
HLS	LASHENDEN/HEADCORN	DME	A	DAVENTRY	DME	DTY	E
HON	HONILEY	DME	E	DAVENTRY	VOR	DTY	A
HON	HONILEY	DME	AE	DEAN CROSS	DME	DCS	E
HON	HONILEY	VOR	AE	DETLING	DME	DET	E
IAA	LONDON HEATHROW	DME	A	DETLING	DME	DET	A
IAA	LONDON HEATHROW 09L CAT III	ILS	A	DETLING	VOR	DET	A
IABD	ABERDEEN/DYCE	DME	A	DOVER	DME	DVR	E
IABD	ABERDEEN/DYCE 34 CAT I	ILS	A	DOVER	DME	DVR	A
IAG	BELFAST ALDERGROVE	DME	A	DOVER	VOR	DVR	A
IAG	BELFAST ALDERGROVE 25 CAT III	ILS	A	DUNDEE	NDB	DND	A
IAX	ABERDEEN/DYCE	DME	A	DUNDEE	DME	IDDE	A
IAX	ABERDEEN/DYCE 16 CAT I	ILS	A	DUNDEE 09 CAT I	ILS	IDDE	A
IBB	LONDON HEATHROW	DME	A	DUNDONALD	DME	DUD	E
IBB	LONDON HEATHROW 09R CAT III	ILS	A	EAST MIDLANDS	NDB	EME	A
IBFH	BELFAST/CITY	DME	A	EAST MIDLANDS	NDB	EMW	A
IBFH	BELFAST/CITY 22 CAT I	ILS	A	EAST MIDLANDS	DME	IEME	A
IBGH	BIGGIN HILL	DME	A	EAST MIDLANDS 27 CAT III	ILS	IEME	A
IBGH	BIGGIN HILL 21 CAT I	ILS	A	EAST MIDLANDS	DME	IEMW	A
IBH	BOURNEMOUTH	DME	A	EAST MIDLANDS 09 CAT I	ILS	IEMW	A
IBH	BOURNEMOUTH 26 CAT III	ILS	A	EDINBURGH	NDB	EDN	A
IBIR	BIRMINGHAM	DME	A	EDINBURGH	DME	ITH	A
IBIR	BIRMINGHAM 15 CAT III	ILS	A	EDINBURGH 24 CAT III	ILS	ITH	A
IBM	BIRMINGHAM	DME	A	EDINBURGH	DME	IVG	A
IBM	BIRMINGHAM 33 CAT III	ILS	A	EDINBURGH 06 CAT III	ILS	IVG	A
IBMH	BOURNEMOUTH	DME	A	EDINBURGH	NDB	UW	A
IBMH	BOURNEMOUTH 08 CAT I	ILS	A	EPSOM	NDB	EPM	A
IBON	BRISTOL	DME	A	EXETER	NDB	EX	A
IBON	BRISTOL 09 CAT I	ILS	A	EXETER	DME	IET	A
IBPL	BLACKPOOL	DME	A	EXETER 08 CAT I	ILS	IET	A
IBPL	BLACKPOOL 28 CAT I	ILS	A	EXETER	DME	IXR	A
IBTS	BRISTOL	DME	A	EXETER 26 CAT I	ILS	IXR	A
IBTS	BRISTOL 27 CAT III	ILS	A	FARNBOROUGH	DME	IFNB	A

GEN 2.5 LIST OF RADIO NAVIGATION AIDS (continued)

ID	Station name	Aid	Purpose	Station name	Aid	ID	Purpose
ICDF	CARDIFF	DME	A	FARNBOROUGH 24 CAT I	ILS	IFNB	A
ICDF	CARDIFF 12 CAT I	ILS	A	FARNBOROUGH	DME	IFRG	A
ICMG	CAMBRIDGE	DME	A	FARNBOROUGH 06 CAT I	ILS	IFRG	A
ICMG	CAMBRIDGE 23 CAT I	ILS	A	GAMSTON	DME	GAM	AE
ICR	CRANFIELD	DME	A	GAMSTON	DME	GAM	A
ICR	CRANFIELD	LOC	A	GAMSTON	VOR	GAM	A
ICWA	CARDIFF	DME	A	GLASGOW	NDB	GLW	A
ICWA	CARDIFF 30 CAT I	ILS	A	GLASGOW	DME	GOW	A
IDD	JERSEY	DME	A	GLASGOW	DME	GOW	E
IDD	JERSEY 26 CAT I	ILS	A	GLASGOW	VOR	GOW	A
IDDE	DUNDEE	DME	A	GLASGOW	DME	IOO	A
IDDE	DUNDEE 09 CAT I	ILS	A	GLASGOW 23 CAT III	ILS	IOO	A
IDX	INVERNESS	DME	A	GLASGOW	DME	IUU	A
IDX	INVERNESS 23 CAT I	ILS	A	GLASGOW 05 CAT III	ILS	IUU	A
IEGN	LONDONDERRY/EGLINTON	DME	A	GLOUCESTERSHIRE	NDB	GST	A
IEGN	LONDONDERRY/EGLINTON 08 CAT I	ILS	A	GLOUCESTERSHIRE	DME	IGOS	A
IEGT	LONDONDERRY/EGLINTON	DME	A	GLOUCESTERSHIRE 27 CAT I	ILS	IGOS	A
IEGT	LONDONDERRY/EGLINTON 26 CAT I	ILS	A	GOODWOOD	DME	GWC	A
IEME	EAST MIDLANDS	DME	A	GOODWOOD	DME	GWC	E
IEME	EAST MIDLANDS 27 CAT III	ILS	A	GOODWOOD	VOR	GWC	A
IEMW	EAST MIDLANDS	DME	A	GREAT DUN FELL	DME	DUF	E
IEMW	EAST MIDLANDS 09 CAT I	ILS	A	GREEN LOWTHER	DME	GLO	E
IET	EXETER	DME	A	GUERNSEY	DME	GUR	A
IET	EXETER 08 CAT I	ILS	A	GUERNSEY	VOR	GUR	A
IFNB	FARNBOROUGH	DME	A	GUERNSEY	DME	IGH	A
IFNB	FARNBOROUGH 24 CAT I	ILS	A	GUERNSEY 27 CAT I	ILS	IGH	A
IFRG	FARNBOROUGH	DME	A	GUERNSEY	DME	IUY	A
IFRG	FARNBOROUGH 06 CAT I	ILS	A	GUERNSEY 09 CAT I	ILS	IUY	A
IFT	BELFAST ALDERGROVE	DME	A	HAWARDEN	NDB	HAW	A
IFT	BELFAST ALDERGROVE 17 CAT I	ILS	A	HAWARDEN	DME	IHDN	A
IGG	LONDON GATWICK	DME	A	HAWARDEN 22 CAT I	ILS	IHDN	A
IGG	LONDON GATWICK 08R CAT III	ILS	A	HAWARDEN	DME	IHWD	A
IGH	GUERNSEY	DME	A	HAWARDEN 04 CAT I	ILS	IHWD	A
IGH	GUERNSEY 27 CAT I	ILS	A	HENTON	NDB	HEN	AE
IGOS	GLOUCESTERSHIRE	DME	A	HONILEY	DME	HON	E
IGOS	GLOUCESTERSHIRE 27 CAT I	ILS	A	HONILEY	DME	HON	AE
IHBD	BELFAST/CITY	DME	A	HONILEY	VOR	HON	AE
IHBD	BELFAST/CITY 04 CAT I	ILS	A	HUMBERSIDE	DME	IHS	A
IHDN	HAWARDEN	DME	A	HUMBERSIDE 20 CAT I	ILS	IHS	A
IHDN	HAWARDEN 22 CAT I	ILS	A	HUMBERSIDE	NDB	KIM	A
IHS	HUMBERSIDE	DME	A	INVERNESS	DME	IDX	A
IHS	HUMBERSIDE 20 CAT I	ILS	A	INVERNESS 23 CAT I	ILS	IDX	A
IHWD	HAWARDEN	DME	A	INVERNESS	DME	ILN	A
IHWD	HAWARDEN 04 CAT I	ILS	A	INVERNESS 05 CAT I	ILS	ILN	A
IJJ	JERSEY	DME	A	INVERNESS	DME	INS	A
IJJ	JERSEY 08 CAT I	ILS	A	INVERNESS	VOR	INS	A
IKIR	KIRKWALL	DME	A	INVERNESS	NDB	IVR	A
IKIR	KIRKWALL 27 CAT I	ILS	A	ISLAY	DME	ISY	A
IKK	PRESTWICK	DME	A	ISLAY	NDB	LAY	A
IKK	PRESTWICK 30 CAT I	ILS	A	ISLE OF MAN	DME	IOM	AE
ILBF	LEEDS BRADFORD	DME	A	ISLE OF MAN	VOR	IOM	AE
ILBF	LEEDS BRADFORD 14 CAT I	ILS	A	ISLE OF MAN	DME	IRH	A
ILDY	LYDD	DME	A	ISLE OF MAN 08 CAT I	ILS	IRH	A
ILDY	LYDD 21 CAT I	ILS	A	ISLE OF MAN	DME	IRY	A
ILF	LEEDS BRADFORD	DME	A	ISLE OF MAN 26 CAT I	ILS	IRY	A
ILF	LEEDS BRADFORD 32 CAT III	ILS	A	ISLE OF MAN	NDB	RWY	A

GEN 2.5 LIST OF RADIO NAVIGATION AIDS (continued)

ID	Station name	Aid	Purpose	Station name	Aid	ID	Purpose
ILJ	LONDON LUTON	DME	A	JERSEY	DME	IDD	A
ILJ	LONDON LUTON 25 CAT III	ILS	A	JERSEY 26 CAT I	ILS	IDD	A
ILL	LONDON HEATHROW	DME	A	JERSEY	DME	IJJ	A
ILL	LONDON HEATHROW 27L CAT III	ILS	A	JERSEY 08 CAT I	ILS	IJJ	A
ILN	INVERNESS	DME	A	JERSEY	DME	JSY	AE
ILN	INVERNESS 05 CAT I	ILS	A	JERSEY	VOR	JSY	AE
ILQ	LIVERPOOL	DME	A	JERSEY	NDB	JW	A
ILQ	LIVERPOOL 27 CAT III	ILS	A	KIRKWALL	DME	IKIR	A
ILSR	LONDON CITY	DME	A	KIRKWALL 27 CAT I	ILS	IKIR	A
ILSR	LONDON CITY 27 CAT I	ILS	A	KIRKWALL	DME	IORK	A
ILST	LONDON CITY	DME	A	KIRKWALL 09 CAT I	ILS	IORK	A
ILST	LONDON CITY 09 CAT I	ILS	A	KIRKWALL	NDB	KW	A
ILTN	LONDON LUTON	DME	A	KIRKWALL	DME	KWL	A
ILTN	LONDON LUTON 07 CAT III	ILS	A	KIRKWALL	VOR	KWL	A
ILVR	LIVERPOOL	DME	A	LAMBOURNE	DME	LAM	A
ILVR	LIVERPOOL 09 CAT I	ILS	A	LAMBOURNE	DME	LAM	E
IMC	MANCHESTER	DME	A	LAMBOURNE	VOR	LAM	A
IMC	MANCHESTER 05R CAT I	ILS	A	LAND'S END	DME	LND	E
IMM	MANCHESTER	DME	A	LAND'S END	VOR	LND	E
IMM	MANCHESTER 05L CAT III	ILS	A	LASHENDEN/HEADCORN	DME	HLS	A
INC	NEWCASTLE	DME	A	LEEDS BRADFORD	DME	ILBF	A
INC	NEWCASTLE 07 CAT III	ILS	A	LEEDS BRADFORD 14 CAT I	ILS	ILBF	A
IND	SOUTHEND	DME	A	LEEDS BRADFORD	DME	ILF	A
IND	SOUTHEND 23 CAT I	ILS	A	LEEDS BRADFORD 32 CAT III	ILS	ILF	A
INEW	NEWQUAY	DME	A	LEEDS BRADFORD	NDB	LBA	A
INEW	NEWQUAY 12 CAT I	ILS	A	LEICESTER	NDB	LE	A
INH	NORWICH	DME	A	LIVERPOOL	DME	ILQ	A
INH	NORWICH 27 CAT I	ILS	A	LIVERPOOL 27 CAT III	ILS	ILQ	A
INN	MANCHESTER	DME	A	LIVERPOOL	DME	ILVR	A
INN	MANCHESTER 23R CAT III	ILS	A	LIVERPOOL 09 CAT I	ILS	ILVR	A
INS	INVERNESS	DME	A	LIVERPOOL	NDB	LPL	A
INS	INVERNESS	VOR	A	LONDON	DME	LON	A
INWC	NEWCASTLE	DME	A	LONDON	DME	LON	E
INWC	NEWCASTLE 25 CAT III	ILS	A	LONDON	VOR	LON	A
INWQ	NEWQUAY	DME	A	LONDON CITY	DME	ILSR	A
INWQ	NEWQUAY 30 CAT III	ILS	A	LONDON CITY 27 CAT I	ILS	ILSR	A
IOM	ISLE OF MAN	DME	AE	LONDON CITY	DME	ILST	A
IOM	ISLE OF MAN	VOR	AE	LONDON CITY 09 CAT I	ILS	ILST	A
IOO	GLASGOW	DME	A	LONDON CITY	NDB	LCY	A
IOO	GLASGOW 23 CAT III	ILS	A	LONDON GATWICK	DME	IGG	A
IORK	KIRKWALL	DME	A	LONDON GATWICK 08R CAT III	ILS	IGG	A
IORK	KIRKWALL 09 CAT I	ILS	A	LONDON GATWICK	DME	IWW	A
IOXF	OXFORD	DME	A	LONDON GATWICK 26L CAT III	ILS	IWW	A
IOXF	OXFORD 19 CAT I	ILS	A	LONDON HEATHROW	DME	IAA	A
IPP	PRESTWICK	DME	A	LONDON HEATHROW 09L CAT III	ILS	IAA	A
IPP	PRESTWICK 12 CAT I	ILS	A	LONDON HEATHROW	DME	IBB	A
IRH	ISLE OF MAN	DME	A	LONDON HEATHROW 09R CAT III	ILS	IBB	A
IRH	ISLE OF MAN 08 CAT I	ILS	A	LONDON HEATHROW	DME	ILL	A
IRR	LONDON HEATHROW	DME	A	LONDON HEATHROW 27L CAT III	ILS	ILL	A
IRR	LONDON HEATHROW 27R CAT III	ILS	A	LONDON HEATHROW	DME	IRR	A
IRY	ISLE OF MAN	DME	A	LONDON HEATHROW 27R CAT III	ILS	IRR	A
IRY	ISLE OF MAN 26 CAT I	ILS	A	LONDON LUTON	DME	ILJ	A
ISAT	ST ATHAN	DME	A	LONDON LUTON 25 CAT III	ILS	ILJ	A
ISAT	ST ATHAN 25 CAT I	ILS	A	LONDON LUTON	DME	ILTN	A
ISED	LONDON STANSTED	DME	A	LONDON LUTON 07 CAT III	ILS	ILTN	A
ISED	LONDON STANSTED 04 CAT III	ILS	A	LONDON LUTON	NDB	LUT	A
ISG	SUMBURGH	DME	A	LONDON STANSTED	DME	ISED	A

GEN 2.5 LIST OF RADIO NAVIGATION AIDS (continued)

ID	Station name	Aid	Purpose	Station name	Aid	ID	Purpose
ISG	SUMBURGH 27 CAT I	ILS	A	LONDON STANSTED 04 CAT III	ILS	ISED	A
ISN	SOUTHAMPTON	DME	A	LONDON STANSTED	DME	ISX	A
ISN	SOUTHAMPTON 20 CAT I	ILS	A	LONDON STANSTED 22 CAT III	ILS	ISX	A
ISO	SOUTHEND	DME	A	LONDONDERRY/EGLINTON	NDB	EGT	A
ISO	SOUTHEND 05 CAT I	ILS	A	LONDONDERRY/EGLINTON	DME	IEGN	A
ISX	LONDON STANSTED	DME	A	LONDONDERRY/EGLINTON 08 CAT I	ILS	IEGN	A
ISX	LONDON STANSTED 22 CAT III	ILS	A	LONDONDERRY/EGLINTON	DME	IEGT	A
ISY	ISLAY	DME	A	LONDONDERRY/EGLINTON 26 CAT I	ILS	IEGT	A
ITD	TEESSIDE INTERNATIONAL	DME	A	LYDD	DME	ILDY	A
ITD	TEESSIDE INTERNATIONAL 23 CAT I	ILS	A	LYDD 21 CAT I	ILS	ILDY	A
ITH	EDINBURGH	DME	A	LYDD	DME	LYD	E
ITH	EDINBURGH 24 CAT III	ILS	A	LYDD	NDB	LZD	A
ITSE	TEESSIDE INTERNATIONAL	DME	A	MACHRIHANISH	DME	MAC	AE
ITSE	TEESSIDE INTERNATIONAL 05 CAT I	ILS	A	MADFORD	DME	DFO	E
IUU	GLASGOW	DME	A	MANCHESTER	DME	IMC	A
IUU	GLASGOW 05 CAT III	ILS	A	MANCHESTER 05R CAT I	ILS	IMC	A
IUY	GUERNSEY	DME	A	MANCHESTER	DME	IMM	A
IUY	GUERNSEY 09 CAT I	ILS	A	MANCHESTER 05L CAT III	ILS	IMM	A
IVG	EDINBURGH	DME	A	MANCHESTER	DME	INN	A
IVG	EDINBURGH 06 CAT III	ILS	A	MANCHESTER 23R CAT III	ILS	INN	A
IVR	INVERNESS	NDB	A	MANCHESTER	DME	MCT	E
IWL	WALNEY	DME	A	MANCHESTER	DME	MCT	A
IWL	WALNEY 35 CAT I	ILS	A	MANCHESTER	VOR	MCT	A
IWQ	WARTON	DME	A	MAYFIELD	DME	MAY	E
IWQ	WARTON 25 CAT I	ILS	A	MAYFIELD	DME	MAY	A
IWW	LONDON GATWICK	DME	A	MAYFIELD	VOR	MAY	A
IWW	LONDON GATWICK 26L CAT III	ILS	A	MIDHURST	DME	MID	A
IXR	EXETER	DME	A	MIDHURST	DME	MID	E
IXR	EXETER 26 CAT I	ILS	A	MIDHURST	VOR	MID	A
JSY	JERSEY	DME	AE	NEWCASTLE	DME	INC	A
JSY	JERSEY	VOR	AE	NEWCASTLE 07 CAT III	ILS	INC	A
JW	JERSEY	NDB	A	NEWCASTLE	DME	INWC	A
KIM	HUMBERSIDE	NDB	A	NEWCASTLE 25 CAT III	ILS	INWC	A
KW	KIRKWALL	NDB	A	NEWCASTLE	DME	NEW	AE
KWL	KIRKWALL	DME	A	NEWCASTLE	NDB	NT	A
KWL	KIRKWALL	VOR	A	NEWQUAY	DME	INEW	A
LAM	LAMBOURNE	DME	A	NEWQUAY 12 CAT I	ILS	INEW	A
LAM	LAMBOURNE	DME	E	NEWQUAY	DME	INWQ	A
LAM	LAMBOURNE	VOR	A	NEWQUAY 30 CAT III	ILS	INWQ	A
LAY	ISLAY	NDB	A	NEWQUAY	NDB	NQY	A
LBA	LEEDS BRADFORD	NDB	A	NORWICH	DME	INH	A
LCY	LONDON CITY	NDB	A	NORWICH 27 CAT I	ILS	INH	A
LE	LEICESTER	NDB	A	NORWICH	NDB	NWI	A
LND	LAND'S END	DME	E	OBAN	DME	OBA	A
LND	LAND'S END	VOR	E	OBAN	NDB	OBN	A
LON	LONDON	DME	A	OCKHAM	DME	OCK	E
LON	LONDON	DME	E	OCKHAM	DME	OCK	A
LON	LONDON	VOR	A	OCKHAM	VOR	OCK	A
LPL	LIVERPOOL	NDB	A	OTTRINGHAM	DME	OTR	E
LUT	LONDON LUTON	NDB	A	OTTRINGHAM	VOR	OTR	E
LYD	LYDD	DME	E	OXFORD	DME	IOXF	A
LZD	LYDD	NDB	A	OXFORD 19 CAT I	ILS	IOXF	A
MAC	MACHRIHANISH	DME	AE	OXFORD	NDB	OX	A
MAY	MAYFIELD	DME	A	PERTH	VOR	PTH	AE

GEN 2.5 LIST OF RADIO NAVIGATION AIDS (continued)

ID	Station name	Aid	Purpose	Station name	Aid	ID	Purpose
MAY	MAYFIELD	DME	E	POLE HILL	DME	POL	AE
MAY	MAYFIELD	VOR	A	POLE HILL	VOR	POL	AE
MCT	MANCHESTER	DME	E	PRESTWICK	DME	IKK	A
MCT	MANCHESTER	DME	A	PRESTWICK 30 CAT I	ILS	IKK	A
MCT	MANCHESTER	VOR	A	PRESTWICK	DME	IPP	A
MID	MIDHURST	DME	A	PRESTWICK 12 CAT I	ILS	IPP	A
MID	MIDHURST	DME	E	PRESTWICK	NDB	PIK	A
MID	MIDHURST	VOR	A	SAINT ABBS	DME	SAB	E
NEW	NEWCASTLE	DME	AE	SAINT ABBS	VOR	SAB	E
NQY	NEWQUAY	NDB	A	SCILLY ISLES/ST MARY'S	NDB	STM	A
NT	NEWCASTLE	NDB	A	SEAFORD	DME	SFD	E
NWI	NORWICH	NDB	A	SEAFORD	VOR	SFD	E
OBA	OBAN	DME	A	SHERBURN-IN-ELMET	NDB	SBL	A
OBN	OBAN	NDB	A	SHOREHAM	NDB	SHM	A
OCK	OCKHAM	DME	E	SHOREHAM	DME	SRH	A
OCK	OCKHAM	DME	A	SOUTHAMPTON	NDB	EAS	A
OCK	OCKHAM	VOR	A	SOUTHAMPTON	DME	ISN	A
OTR	OTTRINGHAM	DME	E	SOUTHAMPTON 20 CAT I	ILS	ISN	A
OTR	OTTRINGHAM	VOR	E	SOUTHAMPTON	DME	SAM	E
OX	OXFORD	NDB	A	SOUTHAMPTON	DME	SAM	A
PIK	PRESTWICK	NDB	A	SOUTHAMPTON	VOR	SAM	A
POL	POLE HILL	DME	AE	SOUTHEND	DME	IND	A
POL	POLE HILL	VOR	AE	SOUTHEND 23 CAT I	ILS	IND	A
PTH	PERTH	VOR	AE	SOUTHEND	DME	ISO	A
RWY	ISLE OF MAN	NDB	A	SOUTHEND 05 CAT I	ILS	ISO	A
SAB	SAINT ABBS	DME	E	SOUTHEND	NDB	SND	A
SAB	SAINT ABBS	VOR	E	ST ATHAN	DME	ISAT	A
SAM	SOUTHAMPTON	DME	E	ST ATHAN 25 CAT I	ILS	ISAT	A
SAM	SOUTHAMPTON	DME	A	STORNOWAY	NDB	SAY	A
SAM	SOUTHAMPTON	VOR	A	STORNOWAY	DME	SOY	A
SAY	STORNOWAY	NDB	A	STORNOWAY	LOC	SOY	A
SBH	SUMBURGH	NDB	A	STORNOWAY	DME	STN	AE
SBL	SHERBURN-IN-ELMET	NDB	A	STORNOWAY	VOR	STN	AE
SFD	SEAFORD	DME	E	STORNOWAY	DME	STW	A
SFD	SEAFORD	VOR	E	STORNOWAY	LOC	STW	A
SHM	SHOREHAM	NDB	A	STRUMBLE	DME	STU	E
SND	SOUTHEND	NDB	A	STRUMBLE	VOR	STU	E
SOY	STORNOWAY	DME	A	SUMBURGH	DME	ISG	A
SOY	STORNOWAY	LOC	A	SUMBURGH 27 CAT I	ILS	ISG	A
SRH	SHOREHAM	DME	A	SUMBURGH	NDB	SBH	A
STM	SCILLY ISLES/ST MARY'S	NDB	A	SUMBURGH	DME	SUB	A
STN	STORNOWAY	DME	AE	SUMBURGH 09 No category	ILS	SUB	A
STN	STORNOWAY	VOR	AE	SUMBURGH	DME	SUM	AE
STU	STRUMBLE	DME	E	SUMBURGH	VOR	SUM	AE
STU	STRUMBLE	VOR	E	TALLA	DME	TLA	E
STW	STORNOWAY	DME	A	TALLA	VOR	TLA	E
STW	STORNOWAY	LOC	A	TEESSIDE INTERNATIONAL	DME	ITD	A
SUB	SUMBURGH	DME	A	TEESSIDE INTERNATIONAL 23 CAT I	ILS	ITD	A
SUB	SUMBURGH 09 No category	ILS	A	TEESSIDE INTERNATIONAL	DME	ITSE	A
SUM	SUMBURGH	DME	AE	TEESSIDE INTERNATIONAL 05 CAT I	ILS	ITSE	A
SUM	SUMBURGH	VOR	AE	TEESSIDE INTERNATIONAL	NDB	TD	A
TD	TEESSIDE INTERNATIONAL	NDB	A	TIREE	DME	TIR	AE
TIR	TIREE	DME	AE	TIREE	VOR	TIR	AE
TIR	TIREE	VOR	AE	TRENT	DME	TNT	A
TLA	TALLA	DME	E	TRENT	DME	TNT	E
TLA	TALLA	VOR	E	TRENT	VOR	TNT	A

GEN 2.5 LIST OF RADIO NAVIGATION AIDS (continued)

ID	Station name	Aid	Purpose	Station name	Aid	ID	Purpose
TNT	TRENT	DME	A	TURNBERRY	DME	TRN	A
TNT	TRENT	DME	E	TURNBERRY	DME	TRN	E
TNT	TRENT	VOR	A	TURNBERRY	VOR	TRN	A
TRN	TURNBERRY	DME	E	WALLASEY	DME	WAL	E
TRN	TURNBERRY	DME	A	WALLASEY	VOR	WAL	E
TRN	TURNBERRY	VOR	A	WALNEY	DME	IWL	A
UW	EDINBURGH	NDB	A	WALNEY 35 CAT I	ILS	IWL	A
WAL	WALLASEY	DME	E	WALNEY	NDB	WL	A
WAL	WALLASEY	VOR	E	WARTON	DME	IWQ	A
WBA	WOLVERHAMPTON/HALFPENNY GREEN	NDB	A	WARTON 25 CAT I	ILS	IWQ	A
WCK	WICK	NDB	A	WARTON	NDB	WTN	A
WHI	WHITEGATE	NDB	A	WELSHPOOL	DME	WPL	A
WIK	WICK	DME	AE	WELSHPOOL	NDB	WPL	A
WIK	WICK	VOR	AE	WHITEGATE	NDB	WHI	A
WIN	WINSTONE	DME	E	WICK	NDB	WCK	A
WL	WALNEY	NDB	A	WICK	DME	WIK	AE
WOD	WOODLEY	NDB	AE	WICK	VOR	WIK	AE
WOL	WOLVERHAMPTON/HALFPENNY GREEN	DME	A	WINSTONE	DME	WIN	E
WPL	WELSHPOOL	DME	A	WOLVERHAMPTON/HALFPENNY GREEN	NDB	WBA	A
WPL	WELSHPOOL	NDB	A	WOLVERHAMPTON/HALFPENNY GREEN	DME	WOL	A
WTN	WARTON	NDB	A	WOODLEY	NDB	WOD	AE
YVL	YEOVIL/WESTLAND	DME	A	YEOVIL/WESTLAND	DME	YVL	A
YVL	YEOVIL/WESTLAND	NDB	A	YEOVIL/WESTLAND	NDB	YVL	A

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GEN 2.6 CONVERSION OF UNITS OF MEASUREMENT

NM to KM 1 NM = 1.8520 KM 1NM = 1.1508 Statute Miles		KM to NM 1 KM = 0.54 NM 1KM = 0.6214 Statute Miles		Feet to Metres 1 Foot = 0.3048 Metres		Metres to Feet 1 Metre = 3.2808 Feet	
1	1.85	1	0.54	1	0.305	1	3.281
2	3.70	2	1.08	2	0.610	2	6.562
3	5.56	3	1.62	3	0.914	3	9.843
4	7.41	4	2.16	4	1.219	4	13.123
5	9.26	5	2.70	5	1.524	5	16.404
6	11.11	6	3.24	6	1.829	6	19.685
7	12.96	7	3.78	7	2.134	7	22.966
8	14.82	8	4.32	8	2.438	8	26.247
9	16.67	9	4.86	9	2.743	9	29.528
10	18.52	10	5.40	10	3.048	10	32.808
20	37.04	20	10.80	20	6.096	20	65.617
30	55.56	30	16.20	30	9.144	30	98.425
40	74.08	40	21.60	40	12.192	40	131.234
50	92.60	50	27.00	50	15.240	50	164.042
60	111.12	60	32.40	60	18.288	60	196.850
70	129.64	70	37.80	70	21.336	70	229.659
80	148.16	80	43.20	80	24.384	80	262.467
90	166.68	90	48.60	90	27.432	90	295.276
100	185.20	100	54.00	100	30.48	100	328.084
200	370.40	200	108.00	200	60.96	200	656.168
300	555.60	300	162.00	300	91.44	300	984.252
400	740.80	400	216.00	400	121.92	400	1312.336
500	926.00	500	270.00	500	152.4	500	1640.420
600	1111.20	600	324.00	1000	304.8	1000	3280.840
700	1296.40	700	378.00	2000	609.6	2000	6561.680
800	1481.60	800	432.00	3000	914.4	3000	9842.520
900	1666.80	900	486.00	4000	1219.2	4000	13123.360
1000	1852.00	1000	540.00	5000	1524.0	5000	16404.199

KG to LBS 1 KG = 2.2046 LBS		LBS to KG 1 LB = 0.4536 KG	
1	2.205	1	0.454
2	4.409	2	0.907
3	6.614	3	1.361
4	8.818	4	1.814
5	11.023	5	2.268
6	13.228	6	2.722
7	15.432	7	3.175
8	17.637	8	3.629
9	19.842	9	4.082
10	22.046	10	4.536
20	44.092	20	9.072
30	66.139	30	13.608
40	88.185	40	18.144
50	110.231	50	22.680
60	132.277	60	27.216
70	154.324	70	31.751
80	176.370	80	36.287
90	198.416	90	40.823
100	220.462	100	45.359
1000 kgs = 1 metric tonne		1 metric tonne = 1000 kgs	

GEN 2.6 CONVERSION OF UNITS OF MEASUREMENT (continued)

CLIMB GRADIENT TABLE

In order to assure obstacle clearance, controlled airspace containment or safe integration of procedures, some Standard Instrument Departure Procedures in the UK require Climb Gradients in excess of 3.3% to be achieved. Procedure design Gradients are annotated as percentage climb gradients where necessary. The Table below provides a conversion to rates of climb for various speeds.

		ground speed (kt)	75	100	150	180	200	210	250
Climb Gradient %	(ft/nm)	rate of climb (ft/min)							
3.9%	237 ft/nm		297	395	593	711	790	830	988
4.0%	243 ft/nm		304	405	608	730	810	851	1013
4.1%	249 ft/nm		311	415	623	748	830	872	1038
4.2%	255 ft/nm		319	426	638	766	851	894	1064
4.3%	261 ft/nm		327	436	654	784	871	915	1090
4.4%	268 ft/nm		335	447	670	803	892	936	1115
4.5%	274 ft/nm		343	457	685	821	912	958	1140
4.6%	280 ft/nm		350	467	700	839	932	979	1165
4.7%	286 ft/nm		358	477	715	857	953	1000	1191
4.8%	292 ft/nm		365	487	730	876	973	1021	1216
4.9%	298 ft/nm		373	497	745	894	993	1043	1241
5.0%	304 ft/nm		380	507	760	912	1013	1067	1267
5.1%	310 ft/nm		388	517	775	930	1034	1085	1292
5.2%	316 ft/nm		395	527	790	948	1054	1107	1317
5.3%	322 ft/nm		403	537	805	966	1074	1128	1343
5.4%	328 ft/nm		410	547	821	985	1094	1149	1368
5.5%	334 ft/nm		418	557	835	1002	1115	1170	1393
5.6%	340 ft/nm		426	567	851	1021	1135	1192	1419
5.7%	347 ft/nm		434	578	868	1041	1155	1213	1444
5.8%	353 ft/nm		441	588	883	1059	1175	1234	1469
5.9%	359 ft/nm		448	598	897	1077	1196	1256	1495
6.0%	365 ft/nm		456	608	913	1095	1216	1277	1520
6.1%	371 ft/nm		464	618	927	1113	1236	1298	1545
6.2%	377 ft/nm		471	628	942	1131	1257	1319	1571
6.3%	383 ft/nm		479	638	958	1149	1277	1341	1596
6.4%	389 ft/nm		486	649	973	1167	1297	1362	1621
6.5%	395 ft/nm		494	659	988	1186	1317	1383	1647
6.6%	401 ft/nm		501	669	1003	1204	1338	1404	1672
6.7%	407 ft/nm		509	679	1018	1222	1358	1426	1697
6.8%	413 ft/nm		517	689	1034	1246	1378	1447	1723
6.9%	420 ft/nm		524	699	1049	1259	1398	1468	1748
7.0%	426 ft/nm		533	709	1064	1277	1419	1490	1773
7.1%	432 ft/nm		540	719	1079	1295	1439	1511	1799
7.2%	438 ft/nm		547	730	1094	1313	1459	1532	1824
7.3%	444 ft/nm		555	740	1110	1332	1480	1553	1849
7.4%	450 ft/nm		562	750	1125	1350	1500	1575	1875
7.5%	456 ft/nm		570	760	1140	1368	1520	1596	1900
7.6%	462 ft/nm		578	770	1155	1386	1540	1617	1925
7.7%	468 ft/nm		585	780	1170	1404	1561	1639	1951
7.8%	474 ft/nm		593	790	1186	1423	1581	1660	1976
7.9%	480 ft/nm		600	800	1200	1441	1601	1681	2001
8.0%	486 ft/nm		608	810	1216	1458	1621	1702	2027

GEN 2.7 SUNRISE/SUNSET

1 Sunrise/Sunset/Twilight times for UK aerodromes can be obtained from the following internet websites:

a) US Navy Observatory website: http://www.usno.navy.mil/USNO/astronomical-applications
b) HM Nautical Almanac Office website: http://astro.ukho.gov.uk/websurf/

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GEN 3 SERVICES

GEN 3.1 AERONAUTICAL INFORMATION SERVICES

1 Responsible Service

1.1 The United Kingdom Aeronautical Information Service (UK AIS) is operated by NATS Limited. AIS is one of the services specified under the Air Traffic Services Licence granted to NATS by the Secretary of State and regulated by the UK Civil Aviation Authority. The Isle of Man, the Bailiwick of Jersey and the Bailiwick of Guernsey are Crown Dependencies of the United Kingdom and their AIS is provided as an integral part of the UK AIS system.

1.2 UK AIS is located at:

Post:	Aeronautical Information Service (AIS), NATS Swanwick, Sopwith Way, Southampton, Hants, SO31 7AY
Tel:	See paragraph 1.3
AFS:	EGGNYNYX
URL:	www.nats.aero/ais
Email General Enquiries:	aissupervisor@nats.co.uk
Email NOTAM Enquiries:	notam.proposals@nats.co.uk

1.3 Principal UK AIS sections and service hours are as follows:

UK NOTAM Office (NOF/INO)	H24	01489-612488 / 01489-612489
AIS Information Line UK	H24	08085-354802 / 01489-887515
UK AIS Publications Section (AIP/SUP/AIC/etc.)	Monday to Friday (0800-1600)	01489-887462 / aissupervisor@nats.co.uk
UK Charting Section	Monday to Friday (0800-1600)	01489-887463
Foreign AIP Library – Enquiries - UK Registered Airlines Only	aissupervisor@nats.co.uk	www.nats.aero/ais

2 Area of Responsibility

2.1 **The UK Aeronautical Information Service**

2.1.1 The UK Aeronautical Information Service is responsible for the collection and dissemination of information/data necessary for the safety, regularity and efficiency of air navigation throughout the entire territory and airspace of the UK, UK Crown Dependencies (the Isle of Man and the Bailiwicks of Jersey and Guernsey) and the airspace over the high seas under the jurisdiction of the UK for Air Traffic Control purposes.

2.1.2 In accordance with the requirements of ICAO Annex 15 and of ICAO DOC 10066, PANS AIM Chapter 3, the Aeronautical Information Service Unit has an established Quality Management System, which is certified and registered to International Standards Organisation – ISO 9001: 2015 Standard by DET Norske Veritas (DNV).

2.2 **International AIS Products**

2.2.1 The UK AIS strongly recommends that the AIS products published directly by the State(s) are consulted during the planning of international flight operations.

2.2.2 It is recommended that the GEN 1.2 section of the AIP published by the State describing Entry, Transit and Departure of Aircraft is consulted in the first instance.

2.2.3 ENR 1.10 and ENR 1.11 sections of the AIP are normally used to publish all flight planning requirements imposed by the State. The information will include all flight planning requirements for visiting, transiting and internal flight operations.

2.2.4 The link below provides information on AIS/AIM offices around the world. The information is divided into sections, where each state is listed alphabetically. The link provides information about AIS websites including contact email addresses. http://www.eurocontrol.int/articles/ais-online.

2.2.5 European AIS Products can be accessed through the contact details and websites of AIS/AIM providers listed at https://www.eurocontrol.int/articles/ais-online.

2.2.6 The UK AIS holds limited CD/DVD supplied by some international AIS offices that do not make their information available via the internet. Further information regarding the availability of this information is available by emailing aissupervisor@nats.co.uk.

GEN 3.1 AERONAUTICAL INFORMATION SERVICES (continued)

3 Aeronautical Publications

3.1 Aeronautical Information Products

3.1.1 The UK AIS operates in accordance with ICAO Annex 15 requirements and publishes aeronautical information as an integrated package.

3.1.2 Aeronautical information products consist of aeronautical data and information provided either as digital data sets or as a standardised presentation in paper or electronic media. Aeronautical information products include:

a) The Aeronautical Information Publication (AIP), including Amendments and Supplements (see paragraph 3.2, 3.3 and 3.4);
b) Aeronautical Information Circulars (see paragraph 3.5);
c) Aeronautical charts;
d) NOTAM (see paragraph 3.6);
e) Pre-Flight Information Bulletins (PIB) (see paragraph 3.8);
f) Check Lists (see paragraph 3.9); and
g) Digital data sets

3.2 **The United Kingdom Aeronautical Information Publication (AIP)**

3.2.1 The UK AIP is the official document used to publish Notifications required by the UK Air Navigation Order.

3.2.2 In order to register any permanent changes to the AIP, Information providers are required to register their details via the email support.aissupervisor@nats.co.uk. Changes to the contents of the IAIP can only be accepted from approved sponsors, using the online Portal https://www.aurora.nats.co.uk.

Note: *Changes of short term/temporary nature should follow the processes required for submission of NOTAM (see paragraph 3.6).*

3.2.3 **Civil Aviation Legislation**

3.2.3.1 UK legislation makes specific provision in a number of cases for Notification. The term 'notified' is defined as set forth in a document published by the Civil Aviation Authority and entitled 'United Kingdom AIP'. A list of principal civil aviation legislation and air navigation regulations is shown at section GEN 1.6 and references to the legislation under which Notification is made appear, as appropriate, within the UK AIP.

3.2.3.2 Notices relating to the limitation of noise at London Gatwick, London Heathrow and London Stansted aerodromes (Section 78 of the Civil Aviation Act 1982 refers) are required to be published in a format that may not be compatible with the host AIS document. Notices requiring operators of aircraft to ensure that specified requirements for limiting or mitigating the effect of noise and vibration are complied with by aircraft landing or taking off at those designated aerodromes appear in the UK AIP under each of the aerodromes' item AD 2.21. Notices specifying, for those designated aerodromes, a maximum number of take-offs or landings which may be permitted during specific periods and determining the operators who are entitled to land and take off during these periods and the number of occasions on which their aircraft may take off or land during those periods will appear in UK AIP Supplements.

3.3 **UK AIP Amendment Service (AMDT and AIRAC AMDT)**

3.3.1 The UK AIP is freely available on the internet http://www.nats.aero/ais. AIP Amendments may contain both AIRAC and Non-AIRAC changes (paragraphs 3.3.2, 3.3.3 and 4 refer). The electronic version will be updated to a specified AIRAC date and the DVD-ROM will also present a preview of AIRAC changes.

3.3.2 The ICAO AIRAC system is used to provide advance notice of the introduction of permanent operationally significant changes on an internationally recognised AIRAC effective date. AIRAC Amendment pages are identified by the footnote AIRAC AMDT and do not replace the existing AIP pages until the AIRAC effective date on which the changes take place. (See also paragraph 3.6.1.2).

3.3.3 Non-AIRAC amendments (AMDT) to the AIP comprise permanent operationally significant changes that have received previous notification by NOTAM and other permanent information that is not required to be announced by NOTAM. Non-AIRAC changes to the AIP are published together with AIRAC changes but may be considered to be effective on or before receipt, unless otherwise indicated. AIP pages (AIRAC and Non-AIRAC) should not be replaced before the stated date of the page.

3.3.4 The AIP Amendment cover sheet will indicate any NOTAM or permanent AIP Supplements that have been incorporated. On each replacement page, changes are either annotated or identified in the outer margin of the page by a vertical line or arrow adjacent to the change/addition/deletion.

3.3.5 Each AIP page is dated to reflect the Amendments AIRAC effective date or AIP insertion date and a complete checklist of AIP pages, relating page reference to date, is reissued with each amendment as AIP section GEN 0.4.

3.3.6 Each combined AIP amendment is allocated an AIRAC Cycle serial number that is consecutive and based on the calendar year.

GEN 3.1 AERONAUTICAL INFORMATION SERVICES (continued)

The Cycle, indicated by two digits, is a part of the serial number of the amendment, eg. AIRAC Cycle 01/2020. When necessary to provide additional advance notice of AIRAC changes, the Amendment may be issued in several parts, each relating to a common effective date. These Amendments will be identified by a part number suffix, eg. AIRAC Cycle 01/2020 Part 1.

3.4 **Supplements to the AIP (AIP SUP)**

3.4.1 UK AIP Supplements will normally contain temporary changes of long duration (three months or longer) and information of short duration containing extensive text or graphics which affect one or more parts of the AIP. Information must be of operational significance (e.g. major air exercises or aerodrome work programmes) that preclude 'complete' promulgation by NOTAM. See also paragraph 3.6.1.2.

3.4.2 UK AIP Supplements are freely available on the internet http://www.nats.aero/ais and are normally issued every 28 days.

3.4.3 AIP Supplements are to be retained for as long as all or some of their contents remain valid. The period of validity of the information contained in the AIP Supplement will normally be given in the Supplement itself. Alternatively, NOTAM may be used to indicate changes to the period of validity or to advise of the cancellation of an AIP Supplement.

3.4.4 A checklist of UK AIP SUP currently in force is normally included within each issue of Supplements.

3.5 **Aeronautical Information Circulars (AIC)**

3.5.1 As a general rule, AICs refer to subjects of an administrative rather than of an operational nature. They are, however, also used to publish advance warnings of impending operational changes and to add explanations or emphasis on matters of safety or operational significance. Aeronautical chart issues are also notified through the medium of the AIC.

3.5.2 UK AIC are freely available on the internet http://www.nats.aero/ais and are normally issued every 28 days.

3.5.3 AIC serial number are Series, Serial number and year; eg AIC W 076/2020. AIC are colour coded according to their subject matter as follows:

- White - Administrative matters (e.g. licence examination dates, services and publications).
- Yellow - Operational matters (including ATS facilities and requirements).
- Pink - Safety related matters.
- Mauve - UK Airspace Restrictions imposed under the Restriction of Flying Regulations.
- Green - Maps and Charts.

3.6 **NOTAM**

3.6.1 **General**

3.6.1.1 All operationally significant information not covered by AIP Amendment or AIP Supplement will be issued as a NOTAM (via the Aeronautical Fixed Telecommunication Network - AFTN).

3.6.1.2 All operationally significant information issued as AIRAC UK AIP Amendments or UK AIP Supplements will be additionally announced by NOTAM. The NOTAM will give an abbreviated description of the change, condition or activity together with the effective date(s) and the Amendment or Supplement reference number. These 'trigger' NOTAM ensure that brief entries appear in the appropriate Pre-flight Information Bulletins (PIB).

3.6.1.3 Trigger NOTAM used for Permanent changes in the AIP will remain valid for a maximum of 14 days after the effective date of change.

Trigger NOTAM used for an AIP Supplement (SUP) will remain valid for a maximum of 14 days after the effective period. If the information published in the SUP exceeds 14 days then the period the SUP is in force shall be indicated in NOTAM field E.

3.6.2 **NOTAM Proposals**

3.6.2.1 NOTAM Proposals shall be submitted by AFS to EUECYIYP. In the event of an outage to your AFS connection, email submissions will be accepted to notam.proposals@nats.co.uk using the online form.

3.6.2.2 NOTAM Proposals shall be submitted whenever possible, at least 24 HR in advance, to permit timely completion of the notification process and to facilitate airspace utilisation planning.

3.6.3 NOTAM Construction

3.6.3.1 To assist the automated processing of data, ICAO format NOTAM are issued with a 'qualifier line' (identified by the letter 'Q') which is composed by the issuing NOTAM Office (NOF).

3.6.3.2 Three NOTAM types are issued and are identified as follows:

- NOTAM **N** - New information/proposal;
- NOTAM **R** - Replaces a previous NOTAM;

GEN 3.1 AERONAUTICAL INFORMATION SERVICES (continued)

- NOTAM **C** - Cancels a previous NOTAM.

3.6.3.3 For AIS to receive the proposal, the first line of the message must be constructed according to a specific format indicating the type (T) and NOTAM identifier. NOTAM<T> PROPOSAL EGGN <Series>. Content of Series is optional. (See Table below for details of the subject matter of each individual NOTAM Series).

If the first line is incorrect, an automatic rejection will be issued, sent to the AFTN address of the sender, stating the non-compliance, together with instructions of the correct format for re-submission.

The textual content below the first line can take any form, see the examples below:

NOTAMN PROPOSAL EGGN

FROM 0800 ON 23 JAN TIL 2300 ON 24 JAN

E)OBSTACLE ERECTED AT 600FT AMSL, 500FT AGL IN THE MIDDLE OF NOWHERE)

NOTAMN PROPOSAL EGGN A

Q)EGTT/QOBCE/IV/M/E/000/005/XXXXNXXXXXE001

A)EGGN B) 2412121212 C)2412232323

E)THIS OBSTACLE IS IN THE MIDDLE OF NOWHERE)

NOTAMR PROPOSAL EGGN A0123/08

A)EGGN B) 0812121212 C)0812232323

E)CHANGE THE HEIGHT OF THIS OBSTACLE IN THE MIDDLE OF NOWHERE TO 900FT AMSL, 800FT AGL)

NOTAMC PROPOSAL EGGN A0125/08

E)THIS OBSTACLE HAS BEEN REMOVED FROM THE MIDDLE OF NOWHERE)

3.6.3.4

Table – UK NOTAM Series

Series	Content
A	Licensed Aerodromes within the London FIR: Cambridge, Cardiff, Liverpool, London Gatwick, London Heathrow, London Luton, London Stansted, Manchester, Norwich, and Southend.
B	En-route Airspace London FIR/UIR & Scottish FIR/UIR and the Channel Islands Airspace: Regulations & Procedures, En-route Navigation Aids described in ENR 4.1 (Inc. facilities used as Approach Aids), ATS and Air/Ground Communications.
C	Licensed Aerodromes within the London FIR and Channel Islands Aerodromes: Alderney, Biggin Hill, Birmingham, Blackpool, Bournemouth, Bristol, Coventry, East Midlands, Exeter, Farnborough, Guernsey, Humberside, Isle of Man, Jersey, Leeds Bradford, London City, Lydd, Newquay, Shoreham, Southampton and Teesside International.
D	Special Use Airspace within ENR 5.1 and ENR 5.2 not described in Series G or M.
E	Unlicensed Aerodromes within the London FIR and Scottish FIR for the notification of safety related subjects relating to facilities and services.
G	En-route Airspace Shanwick Oceanic FIR: Regulations & Procedures, ATS, Air/Ground Communications, Special Use Airspace within ENR 5.1 and ENR 5.2, and Navigation Warnings and Temporary Danger Areas (TDA).
H	Navigation Warnings (except those catered for in Series G).
I	Licensed Aerodromes within the Scottish FIR.
J	Temporary Danger Areas (TDA), Restricted Areas (Temporary) in the London FIR/UIR & Scottish FIR/UIR.
L	Licensed Aerodromes within the London FIR, not covered in Series A or C.
M	AMC Managed Special Use Airspace within ENR 5.1 and ENR 5.2 including relevant Military Exercises in the London FIR/UIR & Scottish FIR/UIR.
N	En-route Obstacles and lights above 100 M (328 FT) AGL and En-route Obstacles and lights below 100 M (328 FT) AGL within the UK Military Low Flying System.
U	UK Military Aerodrome, UK Sovereign Bases and Overseas Territories: Gibraltar, Mount Pleasant, Port Stanley and British Antarctica Airstrips Rothera, Halley and Sky Blu.
V	Notification of Security Advice to UK Air Operators by Government to provide guidance/instructions on Airspace Security Risks. Volcanic Ash related information within En-Route Airspace London FIR/UIR, Scottish FIR/UIR, Shannon FIR/UIR and Shanwick Oceanic FIR.
X	Contingency: Series applied in event of unplanned, long-term outage of normal NOTAM production system. Only time critical NOTAM shall be issued during period of outage. Distribution as per all of the above Series.

3.6.3.5 Each NOTAM series resets at the beginning of each calendar year (begins with 0001 on January 1 at 0000 UTC). NOTAM are

issued in ascending and continuous sequence in every series.

3.6.3.6 ICAO NOTAM format and conditions require that:

a) Each NOTAM deals only with one subject and one condition concerning that subject;
b) NOTAM text is both precise and concise, using plain language and commonly used ICAO Doc 8400 NOTAM abbreviations;
c) An activity or condition applying 'with immediate effect' (WIE) is indicated by a ten figure group (Year/Month/Day/Time) UTC reflecting the actual date/time of NOTAM issue;
d) All temporary NOTAM must include an expiry date/time. The term 'until further notice' (UFN) shall not be used. If estimated, then a ten figure group will be suffixed by 'EST' (eg 0104032100 EST). **NOTAM Sponsors are required to monitor their estimates,** and to advise the UK NOTAM Office of any change or cancellation. NOTAM with an estimated expiry date/time, remain in force until cancelled by a NOTAMC or replaced by a NOTAMR;
e) If information is permanent then the abbreviation 'PERM' will appear in the NOTAM.

3.6.3.7 More information about UK NOTAM can be found in the NOTAM Guidance Material part of the AIS website (www.nats.aero/ais).

3.7 **SNOWTAM**

3.7.1 SNOWTAM messages shall be submitted by the Aerodrome Operator or ATS Unit, using a strict format for automatic processing through the UK NOTAM OFFICE via AFTN using the address EUECYIYP.

3.7.2 The SNOWTAM serial number resets at the beginning of each calendar year (begins with SNOWTAM 0001 on January 1 at 0000 UTC).

3.7.3 More information about reporting of aerodrome surface conditions is provided in AD 1.2 paragraph 2 Runway surface condition assessment and reporting / snow plan.

3.8 **Pre-flight Information Bulletins (PIB)**

3.8.1 NOTAM are freely available on the Internet http://www.nats.aero/ais in the form of Pre-flight Information Bulletins (PIB). Users are required to register onto the web site in order to obtain a briefing. The UK AIS web site offers several methods by which users can obtain a PIB. Both UK and International NOTAM are available whereby the user inputs selectable parameters in order to obtain Narrow Route/Route/Aerodrome and Area briefings.

3.9 **Checklists and lists of valid NOTAM**

3.9.1 Checklists are issued as a NOTAM in the series that they refer to on the 1st of every month. Separate Checklists are issued for each NOTAM Series.

3.9.2 NOTAM checklists also contain the list of valid AIP Supplements and AIC.

3.9.3 NOTAM are also automatically transmitted by AFTN to the list of recipients who requested to be on distribution lists. Requests to amend the AFTN distribution lists used for NOTAM shall be directed to the UK AIS NOTAM Office using email address: notam.proposals@nats.co.uk.

3.10 **AIS Information Line**

3.10.1 The AIS information line is a voice recorded message system, designed to supplement the information available from the AIS website. It is not intended to replace the need to obtain a full briefing.

The message provides information on restricted areas (used to notify Red Arrows activities), airspace upgrades (to notify Royal flights operated in fixed wing aircraft) and emergency restrictions of flying (to prohibit flight in the vicinity of an accident or incident).

Phone: 08085-354802, International +44 (0)1489-887515

The information is recorded by the AIS staff at 1900L for next day's Airspace Upgrade and/or Restriction of Flying. The current day's information is updated during the day should any change or addition be required.

4 AIRAC System

4.1 AIRAC AIP Amendments are originated and distributed by AIS with the objective of reaching chart producers and data handlers at least 28 days in advance of the effective date. Information Providers should note that strict adherence to both the AIRAC publication and effective dates is essential if the information is to be incorporated in flight-deck documentation and flight management systems by the effective date of the selected AIRAC Cycle.

4.2 The information listed below is required by ICAO to be published and brought into effect in accordance with the AIRAC System.

a) The establishment and withdrawal of, and predetermined significant changes (including operational trials) to:

Horizontal and vertical limits, regulations and procedures applicable to FIR/UIR, CTA, CTR, Advisory Areas and ATS Routes; Permanent danger, prohibited and restricted areas (including type and periods of activity when known) and ADIZ, Permanent areas or routes or portions thereof where the possibility of interception exists;

b) Positions, frequencies, callsigns, known irregularities and maintenance periods of radio navigational aids and communications facilities;
c) Holding and approach to land procedures, arrival and departure procedures, noise abatement procedures and any other pertinent ATS procedures;
d) Meteorological facilities (including broadcasts) and procedures;
e) Runways and stopways.

4.3 In addition, the establishment and withdrawal of, and predetermined significant changes to the information listed below may be published and brought into effect in accordance with the AIRAC System:

a) Position, height and lighting of navigational obstacles;
b) Taxiways and aprons;
c) Hours of service: Aerodromes, facilities and services;
d) Customs, immigration and health services;
e) Temporary danger, prohibited and restricted areas and navigational hazards, military exercises and mass movements of aircraft;
f) Temporary areas or routes or portions thereof where the possibility of interception exists.

4.4 When operationally necessary, the ICAO AIRAC System permits major changes to be promulgated two Cycles (56 days) in advance. Similarly, additional notice is required if the introduction of an intended change cannot be planned to take place on an AIRAC effective date. Publication would then be required no later than the AIRAC Cycle within which the actual effective date falls.

4.5 Information Providers should consult the UK AIS Publications Section (see paragraph 1.3) for guidance and details of the promulgation schedules.

4.6 Schedule of AIRAC effective dates available at https://www.icao.int/airnavigation/information-management/Pages/AIRAC.aspx.

5 Pre-Flight Information Service at Aerodromes/Heliports

5.1 UK AIS is operated from a single central location from which information is made available via multi-media output.

5.2 Aerodrome operators are responsible for providing briefing facilities, including UK AIP, AIP SUPs, AICs, NOTAM and/or selected Pre-flight Information Bulletins (PIB), is normally held and made available for reference and self briefing.

6 Digital Data Sets

The following UK digital data sets and their respective Dataset Products Specifications (DPS) are made available on the UK AIS website http://www.nats.aero/ais/datasets.

Data Set Title	Description	Data Subjects Included	Geographical Scope	Usage Limitations[1]/ Remarks/Contact Details[1]
UK ICAO Obstacle Dataset Area 1	Obstacles affecting air navigation (100 M AGL and above)	• Vertical Structures • Obstacle Area	Area 1[2]	Replaces ENR 5.4 table
UK ICAO Terrain Dataset Area 1	Area 1 Terrain	• Terrain	Area 1[2]	See: https://www.ordnance-survey.co.uk/products/os-terrain-50
UK UAS Flight Restrictions Dataset	Airspace restrictions appli-cable to UAS.	• Airspace • Geoborders	Area 1[2]	
UK Visual Reference Points (VRP) Dataset	Visual Reference Points	• Designated Points	Area 1[2]	
London Area Control (LAC) and Prestwick Control (PC) Sector Da-taset	Sector volumes reflecting operational sectorisation for London Area and Prestwick ATC centres	• Airspace	Area 1[2]	

[1] Refer to Dataset Products Specifications (DPS) which are made available on the UK AIS website http://www.nats.aero/ais/datasets and UK AIP Gen 0.1.

[2] Area 1 is defined as the entire territory and airspace of the UK and UK Crown Dependencies (the Isle of Man and the Bailiwicks of Jersey and Guernsey).

Note: *The dataset is provided in AIXM version 5.1. NATS reserve the right to model aeronautical information (AI) appropriately for AI product production and the right to adopt newer versions of AIXM with prior notification.*

Users should check forward/backward compatibility within their applications if using a newer AIXM version in the future to ensure there is no data loss. Please review http://www.aixm.aero/page/aixm-versioning-policy for guidance.

6.1 An ICAO filed difference is in place in respect to the provision of Electronic Terrain and Obstacle Data. (AIP GEN Section 1.7 - Annex 15 refers).

GEN 3.2 AERONAUTICAL CHARTS

1 Responsible Service

1.1 General

1.1.1 Aeronautical Charts are produced and published by NATS Ltd on behalf of the UK Civil Aviation Authority. NATS Ltd publish a range of aeronautical charts for use by all types of civil aviation.

Post: Aeronautical Chart Section, Aeronautical Information Service (AIS), NATS Swanwick, Sopwith Way, Southampton, Hants, SO31 7AY.
Phone: 01489-887463
Fax: 01489-612490
Email: aissupervisor@nats.co.uk

1.2 Applicable ICAO Documents

1.2.1 The Standards, Recommended Practices and, when applicable, the procedures contained in the following ICAO documents are applied:

Annex 4	Aeronautical Charts;
Doc 8168-OPS/611	Aircraft Operations (Holding patterns, OCH and Instrument Approach Procedures diagrams);
Doc 8697 AN/889	Aeronautical Chart Manual.

1.2.2 Differences from ICAO Standards Recommended Practices and Procedures are given at GEN 1.7.

1.3 ICAO IAP Charts

1.3.1 Instrument Approach Charts (IAC) are produced and published by NATS/AIM in the UK AIP.

1.3.2 An Approved Procedure Design Organisation (APDO) will be contracted by the relevant sponsor to design the Instrument Flight Procedures (IFPs). The responsibility for the notification of IFPs (including IAC, for civil aerodromes) in the UK lies with the sponsor: the Aerodrome Licence Holder or ANSP.

1.3.3 Users are invited to forward comments or questions on all policy matters relating to the regulation and design of IFPs to:

Post: Airspace Regulation, CAA, 1 NE Aviation House, Beehive Ring Road, Crawley, West Sussex, RH6 0YR
Email: airspace@caa.co.uk

2 Maintenance of Charts

2.1 Chart Amendment and Revision

2.1.1 New editions of charts are published as often as resources permit with priority being given to those charts affected by major changes to aeronautical information. However, due to high production costs some charts - particularly those listed at GEN 3.2 paragraphs 5.1 and 5.2 have an edition life of at least 1 year. The publication of each new edition will replace the previous edition, which will then become obsolete. Details will be notified by AIP Amendment as appropriate. The aeronautical information validity date will be specified on each edition and topographical and hydrographical information will have been revised where necessary.

2.1.2 Before using any chart operationally, users must determine what aeronautical changes have taken place since its validity date and amend the chart accordingly. This will require users to consult all UK AIP amendments issued since the charts validity date. If in doubt, they should consult AIS Central Office. A list of amendments for the VFR chart series is available on the AIS web site: www.nats.aero/ais.

2.1.3 Amendments to the Aerodrome Obstacle Charts - ICAO - Type A and to the Chart of United Kingdom Airspace Restrictions and Hazardous Areas may be published as or when necessary, but the Chart of UK Areas of Intense Air Activity, Aerial Tactics Areas and Military Low Flying System is amended by annual re-issue.

3 Purchase Arrangements

3.1 The VFR charts listed at GEN 3.2 paragraphs 5.1, 5.2, 5.3, 5.4, 5.5 and 5.6, may be obtained through NATS R&M (Renewables and Mitigations) and other NATS Ltd Chart Stockists listed at www.nats.aero/ais.

Post: NATS R&M (Renewables and Mitigations)
Phone: +44 (0) 1489-444321
Email: renewablesandmitigations@nats.co.uk

3.2 A selection of Royal Air Force aeronautical charts and planning documents are available from:

Post: Operations Centre, No1 AIDU

GEN 3.2 AERONAUTICAL CHARTS (continued)

Phone: +44 (0) 20 8833 8587
Email: UKStratCom-DI-NCGI-AIDU-OPSCentre@mod.gov.uk

A catalogue and price list are available on request.

3.3 A series of LORAN C Charts are published by the Hydrographic Department of the Admiralty for all areas where coverage exists (with the exception of the Mediterranean), and can be obtained from Admiralty Chart Agents.

4 Aeronautical Chart Series Available

4.1 Specifications

4.1.1 Internationally agreed standards for aeronautical charts are set down by the International Civil Aviation Organisation in Annex 4 to the convention on International Civil Aviation. In general, the charts listed below conform to these standards where they apply.

4.1.2 Co-ordinate Datum Reference = WGS 84.

4.2 General Description of CAA Aeronautical Charts

4.2.1 **Aeronautical Charts ICAO Scale 1:500,000 - United Kingdom**

4.2.1.1 This series, covering the United Kingdom, is constructed on a Lambert conformal conic projection and conforms with ICAO specifications for Topography, Culture and Aeronautical Information. A Chart List is at GEN 3.2 paragraph 5.1 with an Index at GEN 3.2 paragraph 6.

4.2.2 **Topographical Air Charts of the United Kingdom - Scale 1:250,000**

4.2.2.1 This series is constructed on a Transverse Mercator projection. The Aeronautical Information generally conforms with the series at paragraph 4.2.1, though runway patterns of both active and disused aerodromes are shown where reliable information is available. The vertical limit of the series is 5000 FT ALT. To assist users, airspace with a base of FL 55 is shown, EXCEPT where a minimum ALT in excess of 5000 FT applies. If the QNH is below 1013 hPa Controlled Airspace not shown on the charts may be below 5000 FT ALT and reference must be made to Aeronautical Chart ICAO 1:500,000 to ensure adequate vertical separation. A chart list is at GEN 3.2 paragraph 5.2 with an index at GEN 3.2 paragraph 7. Under normal conditions the revision cycle for sheets 6 and 8 is annual, while the remaining sheets will be bi-annual.

4.2.3 **Procedural and Aerodrome Charts**

a) **Instrument Approach and Aerodrome Charts - ICAO**

i. Refer to GEN 3.2 paragraph 1.3 for information on departmental responsibilities within the CAA for Instrument Approach Charts - ICAO.
ii. These charts are available for all aerodromes where Instrument Approach Procedures have been established and approved by the CAA. They conform to ICAO specifications, and appear in AD 2.
iii. Separate charts for initial arrival procedures, instrument approach procedures, aerodrome charts and, where necessary, parking/docking charts, are now available for all aerodromes used by international commercial air transport listed in Sections AD 2 and AD 3 of the UK AIP. See GEN 3.2 paragraph 3.2.

b) **Aerodrome Obstacle Charts - ICAO Type 'A'.** These charts are available for most aerodromes designated for use by scheduled international air services. Where a Type 'A' Chart is not published, operators are advised to refer to the appropriate 1:50,000 Ordnance Survey Maps.
c) **Precision Approach Terrain Charts - ICAO.** These charts are designed to provide detailed terrain profile information within a defined portion of the final approach so as to enable aircraft operating agencies to assess the effect of the terrain on decision height determination by the use of radio altimeters. They are published for aerodromes with precision approach runways Categories II and III.
d) **Standard Instrument Departure, Standard Instrument Arrival, Standard Terminal Arrival Route and Noise Abatement Charts.** These charts show designated Departure and Arrival routes for all aerodromes where such procedures are established, and are suitable for operational use. They conform to ICAO specifications. See GEN 3.2 paragraph 3.2.

4.2.4 **Miscellaneous Charts**

a) **UK Airspace Restrictions and Hazardous Areas - 1:1,000,000:** This chart shows all UK airspace restrictions including danger areas and other areas where a potential hazard to air navigation may exist. This chart is available online from the NATS/AIS website at www.nats.aero/ais.
b) **UK Areas of Intense Air Activity, Aerial Tactics Areas and Military Low Flying System - 1:1,000,000:** This chart portrays areas of intense military air activity and elements of the military low flying system within the Scottish FIR and London FIR. This chart is available online from the NATS/AIS website at www.nats.aero/ais.
c) **Helicopter Routes in the London Control Zone - Scale 1:50,000:** This chart is based on a modified version of the 1:50,000 Ordnance Survey Landranger series, and shows the London Control Zone, Helicopter Routes, the Specified Area, aerodromes, heliports and reporting points within the Zone.

GEN 3.2 AERONAUTICAL CHARTS (continued)

d) **UK ATS Airspace Classifications - 1:1,000,000:** This chart depicts UK airspace in accordance with ATS airspace classification criteria. This chart is available online from the NATS/AIS website at www.nats.aero/ais.
e) **Miscellaneous AIP Charts:** The UK AIP charts are available to the public.

4.2.5 Refer to GEN 3.2 paragraph 5 for lists of available charts.

4.3 Symbol Sheet

4.3.1 The aeronautical symbols used on charts are shown at GEN 2.3. They correspond with the internationally agreed symbols contained in ICAO Annex 4, except that some additional symbols are included where appropriate ICAO equivalents do not exist.

5 List of Aeronautical Charts Available

5.1 Aeronautical Charts, ICAO, United Kingdom (Scale 1:500,000) (see Index at GEN 3.2 paragraph 6)

For latest editions and next planned additions see www.nats.aero/ais/vfr_schedule for details.

Sheet Ref	Chart Title
2150ABCD	Scotland
2171AB	Northern England and Northern Ireland
2171CD	Southern England and Wales

5.2 Topographical Air Charts of the United Kingdom (Scale 1:250,000) (see Index at GEN 3.2 paragraph 7)

For latest editions and next planned additions see www.nats.aero/ais/vfr_schedule for details.

Sheet Ref	Chart Title
1	Northern Scotland West
2	Northern Scotland East
3	Northern Ireland
4	The Borders
5	Central England and Wales
6	England East
7	The West and South Wales
8	England South

Note: *All the above Charts (listed in para 5.1 and 5.2) are available as laminated sheets.(Postage and Packing are extra).*

5.2.1 For comments/feedback on these charts:

Post: Aeronautical Chart Section, Aeronautical Information Service (AIS), NATS Swanwick, Sopwith Way, Southampton, Hants, SO31 7AY.
Email: vfrcharts@nats.co.uk

5.3 Instrument Approach and Aerodrome Charts - ICAO, SID/STAR Charts, and Noise Abatement Charts

Refer to paragraph 5.6, and to Sections AD 2 and AD 3.

5.4 Aerodrome Obstacle Charts - ICAO TYPE A - Operating Limitations

a) For latest editions and downloadable copies see www.nats.aero/ais/type_a for details.

GEN 3.2 AERONAUTICAL CHARTS (continued)

Chart Title	
Aberdeen/Dyce	Runway 16/34
Alderney	Runway 08/26
Belfast Aldergrove	Runway 07/25 Runway 17/35
Belfast/City	Runway 04/22
Benbecula	Runway 06/24
Biggin Hill	Runway 03/21
Birmingham	Runway 15/33
Blackpool	Runway 10/28
Bournemouth	Runway 08/26
Bristol	Runway 09/27
Cambridge	Runway 05/23
Campbeltown	Runway 11/29
Cardiff	Runway 12/30
Coventry	Runway 05/23
Cranfield	Runway 03/21
Dundee	Runway 09/27
East Midlands	Runway 09/27
Edinburgh	Runway 06/24
Exeter	Runway 08/26
Farnborough	Runway 06/24
Glasgow	Runway 05/23
Gloucestershire	Runway 09/27
Guernsey	Runway 09/27
Haverfordwest	Runway 03/21
Hawarden	Runway 04/22
Humberside	Runway 02/20
Inverness	Runway 05/23
Islay	Runway 12/30
Isle of Man	Runway 08/26 Runway 03/21
Jersey	Runway 08/26
Kirkwall	Runway 09/27
Leeds Bradford	Runway 14/32
Liverpool	Runway 09/27
London/City	Runway 09/27
London Gatwick	Runway 08R/26L Runway 08L/26R
London Heathrow	Runway 09L/27R Runway 09R/27L
London Luton	Runway 07/25
London Stansted	Runway 04/22
Londonderry/Eglinton	Runway 08/26
Lydd	Runway 03/21
Manchester	Runway 05L/23R Runway 05R/23L
Newcastle	Runway 07/25
Newquay	Runway 12/30
Norwich	Runway 09/27
Oban	Runway 01/19
Oxford	Runway 01/19
Prestwick	Runway 12/30 Runway 02/20
Shoreham	Runway 02/20
Southampton	Runway 02/20 Runway 20 +15° slew
Southend	Runway 05/23
Stornoway	Runway 18/36

GEN 3.2 AERONAUTICAL CHARTS (continued)

Chart Title	
Sumburgh	Runway 15/33
Teesside International	Runway 05/23
Tiree	Runway 05/23
Walney	Runway 17/35
Warton	Runway 07/25
Wick	Runway 13/31
Wolverhampton	Runway 16/34

5.5 Precision Approach Terrain Charts - ICAO

a) For latest editions and downloadable copies see www.nats.aero/ais/patc for details.

Chart Title	
Belfast Aldergrove	Runway 17 Runway 25
Birmingham	Runway 15 Runway 33
Bournemouth	Runway 26
Bristol	Runway 27
East Midlands	Runway 09 Runway 27
Edinburgh	Runway 06 Runway 24
Glasgow	Runway 05 Runway 23
Isle of Man	Runway 08 Runway 26
Leeds Bradford	Runway 32
Liverpool	Runway 27
London Gatwick	Runway 08R Runway 26L
London Heathrow	Runway 09L Runway 09R Runway 27L Runway 27R
London Luton	Runway 07 Runway 25
London Stansted	Runway 04 Runway 22
Manchester	Runway 05L Runway 23R
Newcastle	Runway 07 Runway 25
Newquay	Runway 30

5.6 Other Charts

5.6.1 Miscellaneous Charts

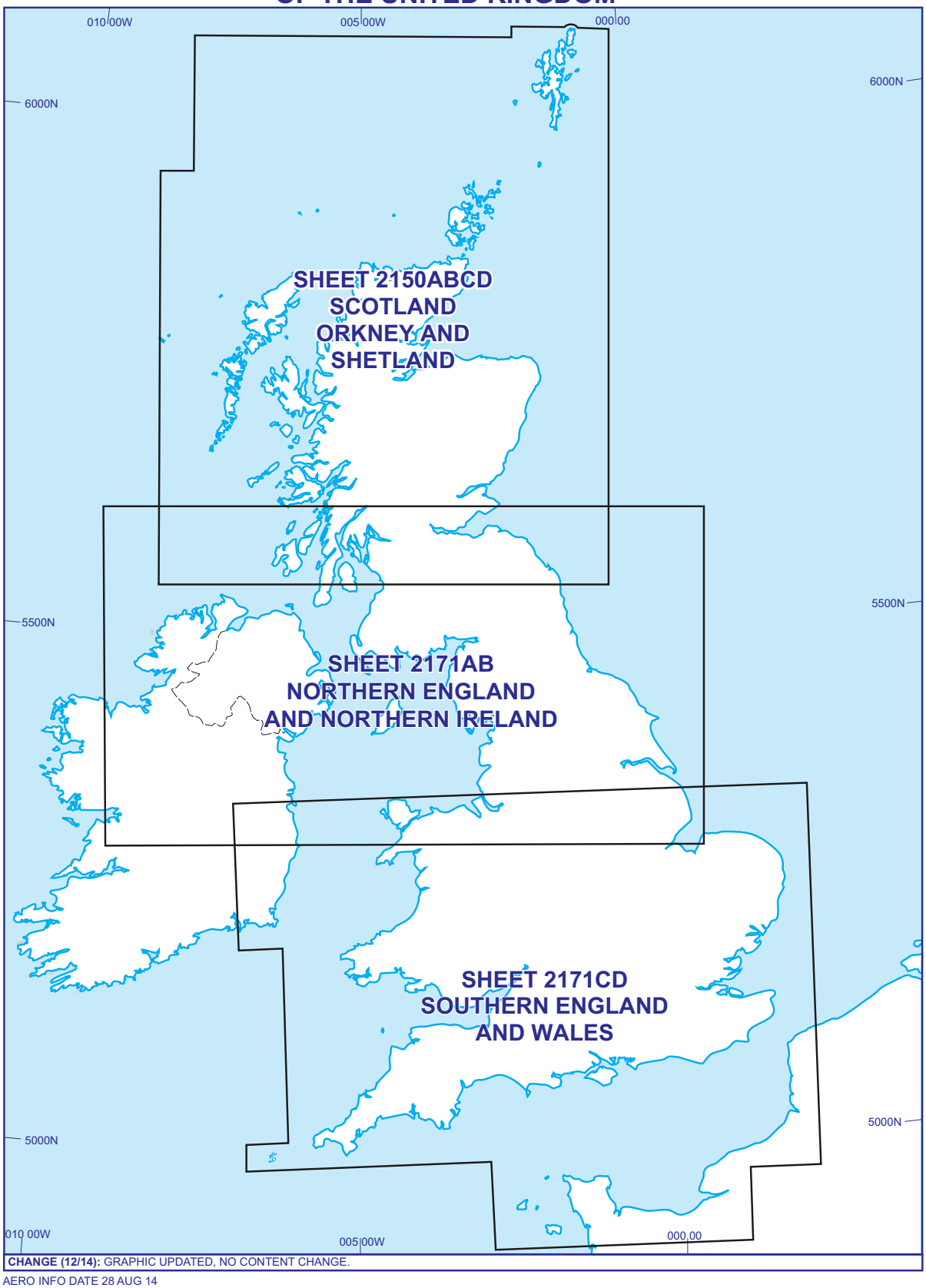
Copies of these charts may be obtained from NATS Ltd Chart Stockists - see www.nats.aero/ais for details.

For latest editions and next planned additions see www.nats.aero/ais/vfr_schedule for details.

Chart Title	UK AIP Page No
Helicopter Routes in the London CTR and London City CTR. (Scale 1:50,000)	–

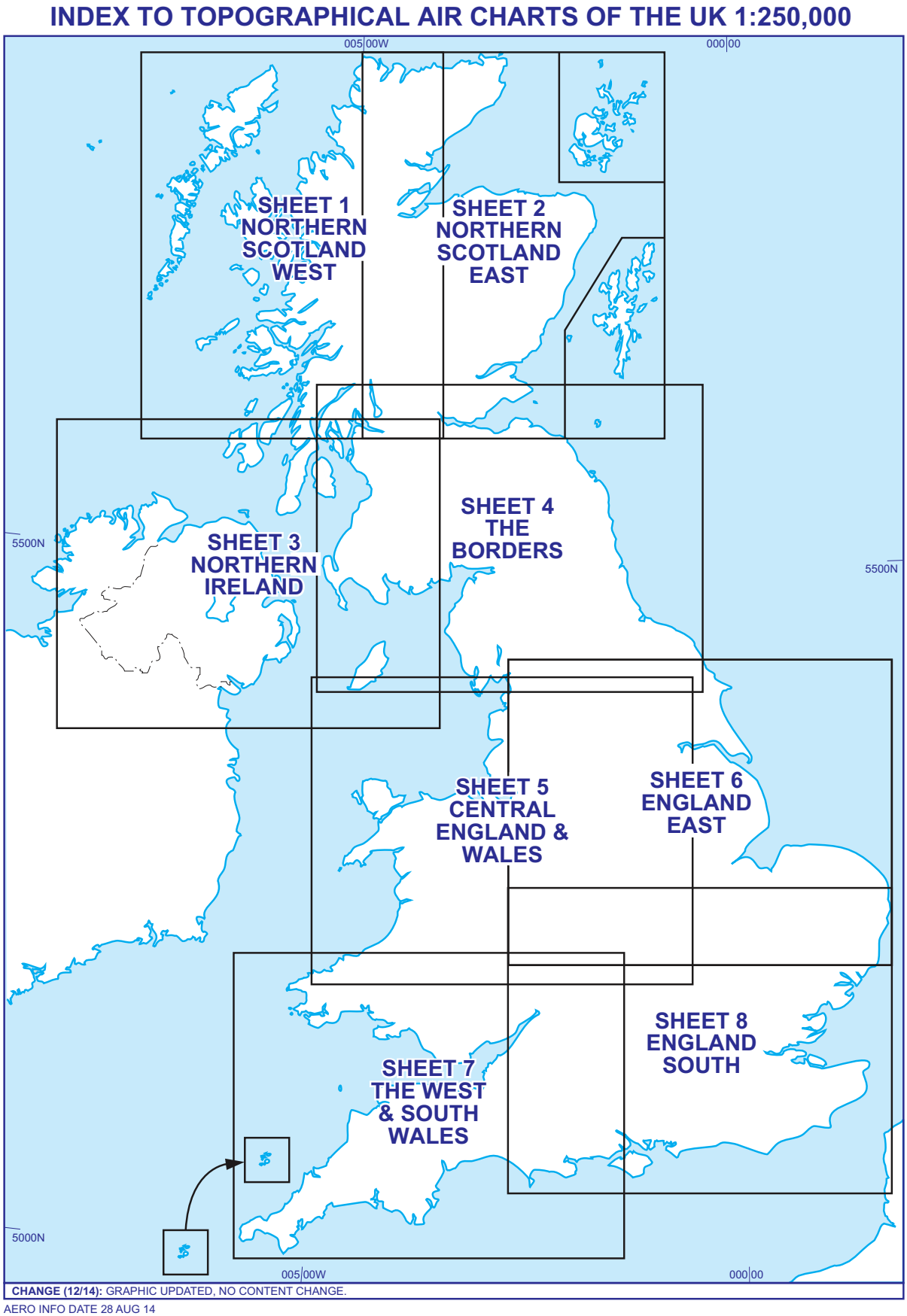
GEN 3.2 AERONAUTICAL CHARTS (continued)

6 Aeronautical Charts - ICAO 1: 500,000



GEN 3.2 AERONAUTICAL CHARTS (continued)

7 Topographical Charts - ICAO 1: 250,000



GEN 3.2 AERONAUTICAL CHARTS (continued)

8 Corrections to charts not contained in the AIP

8.1 Further information can be found at:

http://www.nats.aero/ais.

GEN 3.3 AIR TRAFFIC SERVICES

1 Responsible Service

1.1 Responsibility for the overall administration of the Air Traffic Services in the United Kingdom is vested in the Chief Executive of the National Air Traffic Services Ltd (NATS Ltd) acting under the powers of the Secretaries of State for Transport and for Defence.

Post: Chief Executive NATS Ltd, Corporate and Technical Centre, 4000 Parkway, Whiteley, Fareham, Hants. PO15 7FL.
Phone: 01489-616001

1.2 **Applicable ICAO Documents**

1.2.1 The Standards, Recommended Practices and, when applicable, the procedures contained in the following ICAO documents are applied:

- Annex 2 - Rules of the Air;
- Annex 11 - Air Traffic Services;
- Doc 4444 - Procedures for Air Navigation Services - Air Traffic Management;
- Doc 7030 - Regional Supplementary Procedures;
- Doc 7754 - Air Navigation Plan - European Region;
- Doc 8755 - Air Navigation Plan - North Atlantic.

1.2.2 Differences from ICAO Standards Recommended Practices and Procedures are given at GEN 1.7.

2 Area of Responsibility

2.1 **National Responsibilities**

2.1.1 Air Traffic Services, notified in the AIP, are provided for the Airspace above the UK and surrounding seas within the London and Scottish FIRs/UIRs. By arrangement with the appropriate State authorities, this responsibility has, in some areas, been delegated to the UK. In other areas, responsibility has been delegated to the appropriate State authority.

a) Under the terms of a bi-lateral contract between the European Organisation for the safety of Air Navigation (Eurocontrol) and the UK Government, Air Traffic Services above FL 245 are provided by the London and Scottish ACCs throughout the Scottish FIR/UIR and the London FIR/UIR, and certain portions of Airspace over the Republic of Ireland and its territorial waters, but excluding a portion of the London UIR in the southwest and portions of routes over the North Sea, where arrangements for delegation of control have been made with the appropriate authorities.
b) By agreement with the North Atlantic Provider States, Air Traffic Services are provided by Scottish ACC for the Airspace over the high seas encompassed by the boundaries of the Shanwick Oceanic Control Area, except for a portion of the Shannon Oceanic Transition Area, where arrangements for delegation of control have been made with the Irish authorities.
c) The United Kingdom, Denmark and Norway have agreed, to transfer responsibility for providing Air Traffic Services to all aircraft at and below FL 85 in those areas of their FIRs between the FIR boundary and the Median Line (the demarcation line of National areas for sea bed natural resource exploration and exploitation), to the nation exploiting the natural resources of the area. The areas are shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraphs 1.1.1 to 1.1.3.
d) The United Kingdom and Iceland have agreed to transfer responsibility to the UK for providing Air Traffic Services to all aircraft at and below FL 85 within a defined area of the Reykjavik FIR/OCA during the hours of operation of Sumburgh ATSU as listed at ENR 1.6, paragraph 4.5.2.2. The area is shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraph 1.1.4.
e) The United Kingdom and Iceland have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft from the surface to FL 660 to Iceland. These areas are shown at ENR 2.2 paragraph 1.10.1 and 1.10.2.
f) The United Kingdom and the Netherlands have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft at FL 55 and below (FL 45 and below, beneath EGD323D and EGD323E) in those areas of the London and Scottish FIRs between the FIR boundaries and the Median Line (the demarcation line of National areas for sea bed natural resource exploration and exploitation), to the Netherlands. The area is shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraph 1.2.1.
g) The United Kingdom and Denmark have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft between FL 195 and FL 660 (inclusive) in parts of the London and Scottish FIRs/UIRs to Denmark. The area is shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraph 1.3.1.
h) The United Kingdom and the Netherlands have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft between FL 175 and FL 245 (inclusive) in parts of the London FIR to the Netherlands. The areas are shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraph 1.4.1.
i) The United Kingdom and the Netherlands have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft between FL 215 and FL 660 (inclusive) and between FL 55 and FL 660 (inclusive) in parts of the Amsterdam FIR to the United Kingdom. The areas are shown at ENR 2.2 paragraphs 1.5.1 and 1.5.2, 1.6.1 and 1.6.2.
j) The United Kingdom, France and the Irish Republic have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft between FL 245 and FL 660 (inclusive) in parts of the London UIR to France and the Irish Republic. The areas are shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraphs 1.7.1 and 1.7.2.

k) The United Kingdom and the Irish Republic have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all GAT in a part of the London FIR to the Irish Republic. These areas are shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraphs 1.8.1 and 1.8.4.

l) The United Kingdom and the Irish Republic have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all GAT in a part of the Shannon UIR to the United Kingdom. These areas are shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraph 1.9.1.

m) The United Kingdom and the Irish Republic have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft in a part of the Shannon FIR to the United Kingdom. This area is shown at ENR 2.2 paragraph 1.9.2 to 1.9.4.

n) The United Kingdom and France have arranged, through the exchange of a bi-lateral Letters of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft between FL 115 and FL 660 (levels vary within areas) in parts of the Paris and Reims FIRs/UIRs to the United Kingdom. The areas are shown at ENR 2.2, paragraphs 1.11.1 to 1.11.3, 1.12.1 and 1.12.2.

o) The United Kingdom and Jersey have arranged, through the exchange of a bi-lateral Letter of Agreement to transfer responsibility for providing Air Traffic Services to all aircraft between FL 55-FL 195, and between SFC-FL 195, in parts of the London FIR to Jersey (during the opening hours of Jersey ATC). The areas are shown at ENR 2.2.8 paragraphs 1.14.1 and 1.14.2.

p) The United Kingdom and the Irish Republic have arranged, through the exchange of a bi-lateral Letter of Agreement, to transfer responsibility for providing Air Traffic Services to all aircraft between FL 255 and FL 660 (inclusive) in a part of the Scottish UIR to the Irish Republic. The area is shown at ENR 2.2 (Airspace within which ATS is Delegated), paragraph 1.10.3.

2.1.2 Flight Information Service and Alerting Service will be provided throughout all the Airspace described above. Whenever part of the FIR or UIR has been further classified, FIS and Alerting Service will be provided by the controller giving other ATS appropriate to the airspace classification. In those parts of the FIR or UIR which have not been further classified, FIS and Alerting Service will be provided by a special Area FIS Officer operating from the appropriate ACC.

2.2 Provision of Air Traffic Services (ATS)

2.2.1 The provision of ATS within the United Kingdom's areas of responsibility described in paragraph 1 is shared by several organisations, both Civil and Military.

2.2.2 NATS Ltd provides the principal en-route (ACC/OAC) services together with aerodrome ATS at the airports listed at GEN 3.4, paragraph 2.2.2. Other en-route and aerodrome ATS are provided by civil and military organisations identified within the specific AIP entries.

3 Types of Service

3.1 Air Traffic Control Clearances

3.1.1 Clearances are issued solely for expediting and separating air traffic and are based on known traffic conditions which affect safety in aircraft operation. Such traffic conditions include not only aircraft in the air and on the manoeuvring area over which control is being exercised, but also any vehicular traffic or other obstructions not permanently installed on the manoeuvring area in use.

3.1.2 If an air traffic control clearance is not suitable to the pilot-in-command of an aircraft, the flight crew may request and, if practicable, obtain an amended clearance.

3.1.3 The issuance of air traffic control clearances by Air Traffic Control units constitutes authority for an aircraft to proceed only in so far as known air traffic is concerned. ATC clearances do not constitute authority to violate any applicable regulations for promoting the safety of flight operations or for any other purpose; neither do clearances relieve a pilot-in-command of any responsibility whatsoever in connection with a possible violation of applicable rules and regulations.

3.1.4 Occasionally, instances of false or deceptive transmissions on ATC frequencies may occur. Flight crews should challenge or verify with the ATC unit concerned any instruction or clearance issued to them, which they suspect may be false or deceptive.

3.2 Types of Service - Overview

3.2.1 The type of air traffic service (ATS) to be provided will depend on the class of airspace within which the aircraft is flying, and the type of ATS unit, ie Area, Aerodrome, or Approach. Information on Area, Aerodrome and Approach services are contained herein.

3.2.2 Several other civil and military ATS units provide air traffic services which are detailed at ENR 1.1 (ARA), ENR 1.6 subsection 4.1 (LARS), ENR 1.6 subsection 4.5 (Offshore), ENR 2.2 (MATZ) and ENR 5.1 (SUACS/SUAAIS). Details of air traffic services provided within specific airspace classifications can be found at ENR 1.1 (General Rules) and ENR 1.4 (ATS Airspace Classification).

3.3 Area Control Centre Air Traffic Services

3.3.1 Area Control Centre (ACC) ATS within the UK FIRs encompass the provision of surveillance and non-surveillance Area Control, Alerting, and UK Flight Information Services, to traffic not under the jurisdiction of an approach or aerodrome control unit. This includes the provision of a Basic Service as defined at ENR 1.1, subsection 2 by ACC Flight Information Service Officers (FISO).

GEN 3.3 AIR TRAFFIC SERVICES (continued)

In addition to a Basic Service, the FISO will:

a) On receipt of a request for joining or crossing clearance of Controlled Airspace or Advisory Routes either:
   i. inform the pilot that he should change frequency in time to make the request direct to the appropriate ATC Unit at least ten minutes before ETA for the entry or crossing point; or
   ii. obtain the clearance from the appropriate ATC Unit himself/herself and pass it to the pilot on the FIR frequency.
b) Pass ETA to destination aerodromes in special circumstances, such as diversions, or at particular locations when traffic conditions demand it. Normally, however, pilots who wish destination aerodromes outside Controlled Airspace to have prior warning of arrival should communicate direct with ATC at the aerodrome concerned, at least ten minutes before ETA.
c) Accept airborne flight plans and pass the information to the appropriate authority.

3.4 **Aerodrome Air Traffic Services**

3.4.1 ATC at an aerodrome is responsible for the control of aircraft in the air in the vicinity of the aerodrome and for the control of all traffic on the manoeuvring area. All movements of aircraft and vehicles on the manoeuvring area are subject to prior permission from ATC.

3.4.2 Control of movements of vehicles and persons on the apron is the responsibility of the aerodrome authority. Movement of aircraft on the apron is subject to prior permission from ATC, who will provide advice and instructions to assist in the prevention of collisions between moving aircraft.

3.4.3 The total ATC responsibility at an aerodrome is shared between Aerodrome Control and Approach Control. Aerodrome Control is responsible for aircraft on the manoeuvring area except the runways-in-use. The point dividing the responsibilities of Aerodrome Control and of Approach Control for aircraft on the runways-in-use and in the air may vary with different weather conditions or for other considerations, but it is the normal rule that departing aircraft contact Aerodrome Control first and that arriving aircraft contact Approach Control first for ATC instructions.

3.4.4 Three types of service are used at United Kingdom aerodromes for the control or supervision of aerodrome traffic. Where Air Traffic Control is required an Aerodrome Control Service (TWR) is provided. At other aerodromes, either an Aerodrome Flight Information Service (AFIS) or an Air-Ground Service (A/G) may be provided. Where traffic levels are variable, the available service may be changed at specific times or by arrangement.

3.4.5 ATC fulfils its functions at an aerodrome by giving aircraft by RTF the instructions and information required for taxiing, take-off or landing.

3.4.6 At some busy airports to alleviate RTF loading on the operational channels, Automatic Terminal Information Service (ATIS) broadcast messages are used to pass routine arrival/departure information on a discrete RTF frequency or on an appropriate VOR. Pilots of aircraft inbound to these airports are required on first contact with the aerodrome ATS Unit to acknowledge receipt of current information by quoting the code letter of the broadcast. Pilots of outbound aircraft are not normally required to acknowledge receipt of departure ATIS but are requested to ensure that they are in possession of up-to-date information. It may not be possible for ATC to provide the contents of the ATIS message on operational ATC frequencies due to RT and controller workload and pilots should only request such assistance when operationally essential and the ATIS frequency is unable to be monitored.

3.4.7 **Uncertainty of position on the manoeuvring area**

3.4.7.1 Except as provided for in 3.4.7.2, a pilot in doubt as to the position of the aircraft with respect to the manoeuvring area shall immediately:

a) Stop the aircraft; and
b) simultaneously notify the appropriate ATS unit of the circumstances (including the last known position).

3.4.7.2 In those situations where a pilot is in doubt as to the position of the aircraft with respect to the manoeuvring area, but recognizes that the aircraft is on a runway, the pilot shall immediately:

a) Notify the appropriate ATS unit of the circumstances (including the last known position);
b) if able to locate a nearby suitable taxiway, vacate the runway as expeditiously as possible, unless otherwise instructed by the ATS unit; and then,
c) stop the aircraft.

3.4.7.3 A vehicle driver in doubt as to the position of the vehicle with respect to the manoeuvring area shall immediately:

a) Notify the appropriate ATS unit of the circumstances (including the last known position);
b) simultaneously, unless otherwise instructed by the ATS unit, vacate the landing area, taxiway, or other part of the manoeuvring area, to a safe distance as expeditiously as possible; and then
c) stop the vehicle.

3.4.7.4 In the event the aerodrome controller becomes aware of an aircraft or vehicle that is lost or uncertain of its position on the manoeuvring area, appropriate action shall be taken immediately to safeguard operations and assist the aircraft or vehicle

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concerned to determine its position.

3.5 **Phraseology**

3.5.1 Pilots should be aware that ATC use of the phrase 'No ATC Speed Restriction' does not absolve pilots from the responsibility to operate at speeds that would:

a) Ensure adequate obstacle clearance;
b) comply with flight operations manual requirements;
c) not prejudice the 'see and avoid' principle (for both conflicting parties);
d) comply with the airspace speed limit in Class E, F or G Airspace;
e) enable adherence to tracks and levels specified in Noise Preferential Routes or Noise Abatement Procedures (including Continuous Descent Approaches).

3.6 **Approach Control Service (APP)**

3.6.1 Approach Control Services are provided at aerodromes which are within Controlled Airspace and some aerodromes which are outside controlled airspace. In the latter case, however, there is no legal requirement for pilots to comply with the instructions issued by Approach Control unless they are within the Aerodrome Traffic Zone. Nor is there any legal requirement for such pilots to report their presence. It is, therefore, impossible for Approach Control to be sure that they are giving separation from all aircraft in their area.

3.6.2 The more aircraft that are known to Approach Control at an aerodrome outside Controlled Airspace, the better will be the service provided and pilots are therefore strongly recommended either:

a) To avoid flying under IFR within 10 nm radius at less than 3000 ft above an aerodrome having Approach Control; or
b) if it is necessary to fly under IFR in such an airspace, to contact Approach Control when at least 10 minutes flying time away and to comply with any instructions they may give.

3.6.3 Responsibility of APP at Aerodromes inside Controlled Airspace

3.6.3.1 Approach Control will provide standard separation to IFR flights from the time or place at which:

a) Inbound aircraft are released by the ACC or Zone Control until they are transferred to Aerodrome Control; and
b) outbound aircraft are taken over from Aerodrome Control until they are handed over to the ACC or Zone Control;
c) aircraft inbound from the FIR come under its jurisdiction within the Controlled Airspace until they are transferred to Aerodrome Control.

3.6.4 Responsibility of APP at Aerodromes outside Controlled Airspace

3.6.4.1 Approach Control will provide air traffic services between aircraft under its jurisdiction from the time and place at which:

a) Arriving aircraft are released by the ACC until they are transferred to Aerodrome Control;
b) arriving aircraft first place themselves under Approach Control until they are transferred to Aerodrome Control;
c) departing aircraft are taken over from Aerodrome Control until they are transferred to the ACC, or they state that they no longer wish to be controlled or they are more than 10 minutes flying time away from the aerodrome, whichever is the sooner;
d) transit aircraft first place themselves under the control of Approach Control until they are clear of the approach pattern or state they no longer wish to be controlled.

3.7 **Aerodrome Flight Information Service (AFIS)**

3.7.1 The Aerodrome Flight Information Service (AFIS) is a service provided by Aerodrome Flight Information Service Officers (AFISO) to give information useful for the safe and efficient conduct of aerodrome traffic, including assisting pilots in the prevention of collisions, and to give taxi instructions on the apron and manoeuvring area. From the information received pilots will be able to decide the appropriate course of action to be taken to ensure the safety of flight.

3.7.2 AFIS is available at aerodromes during the hours of operation indicated at AD 2 and AD 3. The service is easily identifiable by the call sign suffix 'INFORMATION'. Only the holder of an AFISO licence is permitted to use this suffix.

3.7.3 The AFISO is responsible for:

a) Issuing information to aircraft flying in and in the vicinity of the ATZ to assist pilots in preventing collisions;
b) issuing instructions and information to aircraft on the apron and manoeuvring area to assist pilots in preventing collisions between aircraft and vehicles/obstructions on the manoeuvring area, or between aircraft moving on the apron;
c) issuing instructions to vehicles and persons on the manoeuvring area;
d) informing aircraft of essential aerodrome information (ie the state of the aerodrome and its facilities);
e) provision of an alerting service;
f) initiating overdue action.

3.8 **Services and Procedures for Arriving Flights**

3.8.1 Pilots of arriving aircraft should contact Approach Control when instructed to do so by the ACC. If flying outside Controlled Airspace

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in IMC the first call should be made to Approach Control at least 10 minutes before ETA at the aerodrome.

3.8.1.1 As soon as practicable after pilots have made contact with Approach Control they will be given:

a) Runway-in-use;
b) Current meteorological information which will include:

i. Surface wind direction (in degrees magnetic) and speed;
ii. visibility;
iii. present weather;
iv. significant cloud amount and height of base;
v. QFE or QNH (with height of aerodrome);
vi. any other relevant information (gusts, icing, etc);
vii. Runway Visual Range

Note: *This information may be reduced to items (i) and (v) when aircraft are below cloud, flying in VMC and able to continue in VMC to the landing, or at busy aerodromes within Control Zones when visibility and cloud base permit approaches under VFR.*

c) Current runway surface conditions where appropriate;
d) any changes in the operational status of visual and non-visual aids essential for approach and landing.

3.8.2 **Holding**

3.8.2.1 Holding will normally be carried out in accordance with the procedures set out on IAC. Certain procedures are mandatory and are notified for the purpose of Rule 34(3) of the Rules of the Air Regulations 2007. If none have been published, or if a pilot does not know them, Approach Control should be advised and full instructions will then be given.

3.8.2.2 If for any reason a pilot is unable to comply with any particular holding instruction he should advise Approach Control and ask permission to follow an alternative procedure. Permission will normally be given if traffic conditions permit.

3.8.2.3 A pilot will be given a time at which to leave the holding point and commence his approach. This will be given sufficiently in advance for him to arrange his flight so as to arrive at the holding point at the time specified.

3.8.3 **Procedures for Arriving VFR Flights**

3.8.3.1 An aircraft approaching an aerodrome under VFR where an Approach Control Service is available should make initial RTF contact when 15 nm or five minutes flying time from the Aerodrome Traffic Zone boundary, whichever is the greater. If the aircraft is not equipped with the Approach frequency, communication on the Aerodrome Control frequency will be acceptable. As well as landing information, ATC will pass information on pertinent known traffic to assist pilots of VFR flights to maintain separation from both IFR and other VFR flights.

3.8.3.2 If radar sequencing of IFR flights is in progress, ATC will provide VFR flights with information to enable them to fit into the landing sequence.

3.8.4 **Instrument Approaches**

3.8.4.1 Pilots will be expected to be conversant with the correct notified Instrument Approach Procedures detailed in published charts, but on request, in exceptional circumstances, Approach Control will supply the following information

a) The aid concerned, aircraft category and Final Approach Track;
b) arrival level;
c) type of reversal manoeuvre, including outbound track, length in time or distance, level instructions, and direction of procedure turn where applicable;
d) intermediate and final approach tracks and fixes, and step down fixes (where applicable), with level instructions;
e) Obstacle Clearance Height;
f) Missed Approach Point and Missed Approach Procedure.

3.8.4.2 A pilot finding that he can see the ground before he has completed the approach procedure must, nevertheless, carry out the entire procedure, unless he specifically requests and ATC gives permission for him to complete his approach visually. This permission will only be given when:

a) The pilot can maintain visual reference to the surface; and
b) the reported cloud ceiling is not below the initial approach level or the pilot reports that visibility will permit a visual approach and he is reasonably confident that a landing can be accomplished.

ATC will continue to provide IFR separation from other aircraft.

3.8.4.3 Providing that it is not at night or in Class A Airspace, a pilot is entitled to ask ATC to cancel his IFR plan during his approach to land providing that he can continue in uninterrupted VMC. In this case, he must accept responsibility for maintaining his own

separation from other aircraft.

3.8.4.4 An arriving aircraft may be cleared, by day only, to descend remaining in VMC and maintaining own separation if reports indicate that this is possible. Essential traffic information will be given.

3.8.5 **Visual Circuit Reporting Procedures**

3.8.5.1 In order that the maximum use may be made of aerodromes for the purpose of landing and taking-off, it is essential that pilots accurately report their positions in the circuit.

3.8.5.2 **Standard Overhead Join**

3.8.5.2.1 An aircraft which has been instructed to complete a standard overhead join will:

a) Overfly the aerodrome at 2000 FT AAL;
b) descend on the 'dead side' to circuit height;
c) join the circuit by crossing the upwind end of the runway at circuit height;
d) position downwind.

3.8.5.3 Position reports are to be made as follows:

a) **Downwind** - Aircraft are to report 'Downwind' when abeam the upwind end of the runway. Aircraft report ‘Late downwind’ if they are on downwind leg, have been unable to report ‘Downwind’ and have passed abeam the downwind end of the runway.
b) **Base Leg** - Aircraft are to 'Report Base', if requested by ATC, immediately on completion of the turn on to base leg.
c) **Final** - Aircraft are to report 'Final' after the completion of the turn on to final approach and when at a range of not more than 4 NM from the approach end of the runway.
d) **Long Final** - Aircraft flying a final approach of a greater length than 4 NM are to report 'Long Final' when beyond that range, and 'Final' when a range of 4 NM is reached. Aircraft flying a straight-in approach are to report 'Long Final' at 8 NM from the approach end of the runway, and 'Final' when a range of 4 NM is reached.

Note 1: *At grass aerodromes, the area to be used for landing should be regarded as the runway for the purposes of position reporting.*

Note 2: *Pilots are reminded that, when operating in the vicinity of aerodromes and not in receipt of Air Traffic Control instructions to the contrary, SERA.3225 (Operation on and in the Vicinity of an Aerodrome) applies, and that an aircraft operated on or in the vicinity of an aerodrome shall:*

i. observe other aerodrome traffic for the purpose of avoiding collision;
ii. conform with or avoid the pattern of traffic formed by other aircraft in operation;
iii. except for balloons, make all turns to the left, when approaching for a landing and after taking off, unless otherwise indicated, or instructed by ATC;
iv. except for balloons, land and take off into the wind unless safety, the runway configuration, or air traffic considerations determine that a different direction is preferable, and they should 'conform to the pattern of traffic formed by other aircraft intending to land at that aerodrome'.
Flights contemplating carrying out a straight in approach should bear in mind that, on many occasions, this method of joining will may not permit compliance with this Rule.

3.8.6 **Visual Approaches**

3.8.6.1 Subject to the conditions in paragraph 3.7.6.3, clearance for an IFR flight to execute a visual approach may be requested by a flight crew or initiated by the controller. In the latter case, the concurrence of the flight crew shall be required.

3.8.6.2 Controllers will exercise caution in initiating a visual approach when there is reason to believe that the flight crew concerned is not familiar with the aerodrome and its surrounding terrain. Controllers will also take into consideration the prevailing traffic and meteorological conditions when initiating visual approaches.

3.8.6.3 An IFR flight may be cleared to execute a visual approach provided the pilot can maintain visual reference to the terrain and:

a) the reported ceiling is at or above the approved initial approach level for the aircraft so cleared; or
b) the pilot reports at the initial approach level or at any time during the instrument approach procedure that the meteorological conditions are such that with reasonable assurance a visual approach and landing can be completed.

3.8.6.4 Separation shall be provided between an aircraft cleared to execute a visual approach and other arriving and departing aircraft.

3.8.6.5 For successive visual approaches, separation will be maintained by the controller until the pilot of a succeeding aircraft reports having the preceding aircraft in sight. The aircraft will then be instructed to follow and maintain own separation from the preceding aircraft. When both aircraft are of a heavy wake turbulence category, or the preceding aircraft is of a heavier wake turbulence category than the following, and the distance between the aircraft is less than the appropriate wake turbulence minimum, the controller will issue a caution of possible wake turbulence. The pilot-in-command of the aircraft concerned shall be responsible for ensuring that the spacing from a preceding aircraft of a heavier wake turbulence category is acceptable. If it is determined that

additional spacing is required, the flight crew shall inform the ATC unit accordingly, stating their requirements.

3.8.6.6 Transfer of communications to the aerodrome controller will be effected at such a point or time that information on essential local traffic, if applicable, and clearance to land or alternative instructions can be issued to the aircraft in a timely manner.

3.9 **Runway Utilisation Procedures**

3.9.1 **Runway-in-Use**

3.9.1.1 The runway-in-use is selected by Aerodrome Control as the best for general purposes. If it is unsuitable for a particular operation, ATC may offer, or the pilot can obtain permission from ATC to use another runway but must accept that he may thereby incur a delay.

3.9.2 **Clearance for Immediate Take-Off**

3.9.2.1 A pilot receiving the ATC instruction 'cleared for immediate take-off' is required to act as follows:

a) If waiting clear of the runway, taxi immediately on to it and begin his take-off run without stopping his aircraft;
b) if already lined up on the runway, take-off without delay;
c) if unable to comply with the instruction, inform ATC immediately

3.9.3 **Land After Procedure**

3.9.3.1 Normally, only one aircraft is permitted to land or take-off on the runway-in-use at any one time. However, when the traffic sequence is two successive landing aircraft, the second one may be allowed to land before the first one has vacated the runway-in-use, providing:

a) the runway is long enough, and there is no evidence to indicate that braking may be adversely affected.
b) it is during daylight hours.
c) the first landing aircraft is not required to backtrack to vacate the runway.
d) the second aircraft will be able to see the first aircraft clearly and continuously until it has vacated the runway.
e) the second aircraft has been warned. ATC will provide this warning by issuing the pilot of the second aircraft with permission to land using the phraseology "... land after the (first aircraft type) ..." instead of issuing a landing clearance.
f) responsibility for ensuring adequate separation between the two aircraft rests with the pilot of the second aircraft.

An example of the RTF exchange is as follows:

ATC: “(Call sign) runway (designator), **land after** the (first aircraft type), surface wind (direction and speed)”.

Pilot: “Runway (designator), **land after** the (first aircraft type), (Call sign)”.

3.9.4 **Special Landing Procedures at London Gatwick and London Stansted Airports.**

3.9.4.1 Special landing procedures may be in force at London Gatwick (except for Runway 08L/26R) and London Stansted (Land after Departure only) in conditions shown hereunder, when the use will be as follows:

a) When the runway-in-use is temporarily occupied by other traffic, landing clearance will be issued to an arriving aircraft provided that at the time the aircraft crosses the threshold of the runway-in-use the following separation distances will exist:

London Gatwick

i. Landing following landing - The preceding landing aircraft will be clear of the runway-in-use or will be at least 2500 M from the threshold of the runway-in-use.
ii. Landing following departure - The departing aircraft will be airborne and at least 2000 M from the threshold of the runway-in-use, or if not airborne, will be at least 2500 M from the threshold of the runway-in-use

London Stansted

Landing following departure - The departing aircraft will be airborne and at least 2000 M from the threshold of the runway-in-use, or if not airborne, will be at least 2500 M from the threshold of the runway-in-use.

b) Reduced separation distances as follows will be used where both the preceding and succeeding landing aircraft or both the landing and departing aircraft are propeller driven and have a maximum total weight authorised not exceeding 5700 KG:

London Gatwick

i. Landing following landing - The preceding aircraft will be clear of the runway-in-use or will be at least 1500 M from the threshold of the runway-in-use.
ii. Landing following departure - The departing aircraft will be airborne or will be at least 1500 M from the threshold of the runway-in-use.

London Stansted

Landing following departure - The departing aircraft will be airborne and at least 1500 M from the landing threshold, or if not airborne, will be at least 1500 M from the landing threshold.

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Note: *The reduced distances do not apply to those jets which are 5700 KG MTWA or less.*

c) Conditions of Use. The procedures will be used by DAY only under the following conditions:

London Stansted

i. When the reported meteorological conditions are equal to or better than a visibility of 6 KM and a cloud ceiling of 1000 FT and the Air Controller is satisfied that the pilot of the next arriving aircraft will be able to observe continuously the relevant traffic.
ii. When both the preceding and succeeding aircraft are being operated in the normal manner. (Pilots are responsible for notifying ATC if they are operating their aircraft in other than the normal manner; eg final approach speed greater than 160 KT).
iii. When the runway is dry and free of all precipitants such that there is no evidence that the braking action may be adversely affected.
iv. When the Air Controller is able to assess the separation either visually or by means of Aerodrome Traffic Monitor.

London Gatwick

1. When 26L/08R is in use;
2. When the controller is satisfied that the pilot of the next arriving aircraft will be able to observe the relevant traffic clearly and continuously;
3. When the pilot of the following aircraft is warned;
4. When there is no evidence that the braking action may be adversely affected;
5. When the controller is able to assess separation visually or by radar derived information.

d) When issuing a landing clearance following the application of these procedures ATC will issue the second aircraft with the following instructions:

London Gatwick

..... (call sign) ..... after the landing/departing ..... (Aircraft Type) cleared to land Runway ..... (Designator).

London Stansted

..... (call sign) ..... after the departing ..... (Aircraft Type) cleared to land Runway ..... (Designator).

3.10 **Handling of Aircraft in Emergency where the Intended Flight Path passes over Densely Populated Areas**

3.10.1 When a pilot has declared an emergency and stated the aerodrome to which he wishes to proceed, controllers will acknowledge this message. The controller may be instructed to inform the pilot that the aircraft is required or requested to divert to another aerodrome together with the reason for this change. This message, together with the reason, shall then be passed to the captain and his intentions requested.

3.10.2 The decision to comply with advice or instructions to land at an airport, other than his selected diversion, lies with the captain of the aircraft who has ultimate responsibility for the safety of his aircraft.

3.10.3 It is desirable that aircraft in an emergency should not be routed over densely populated areas, particularly if there is reason to believe that the aircraft's ability to remain in controlled flight is compromised or that parts of the aircraft could detach while in flight. If this is inconsistent with providing the most appropriate service to the aircraft, for example when any extended routeing could further jeopardise the safety of the aircraft, the most expeditious route will be given. Where possible, when expeditious routeing is not required, suggestions of alternative runways or aerodromes together with the rationale that the routeing would avoid densely populated areas and be consistent with safety, shall be passed to the pilot and his intentions requested.

3.10.4 It is recognised that controllers providing en-route services at Area Control Centres may not be aware of the boundaries of major cities, towns or villages. However, controllers providing aerodrome, approach or approach radar control services should be familiar with the centres of population within their areas of jurisdiction.

3.11 **Departure Clearances**

3.11.1 ATC clearances shall specify some or all of the following as necessary:

a) Direction of take-off and turn after take-off;
b) track to be made good before proceeding on desired heading;
c) level to maintain before continuing climb to assigned cruising level, time, point and/or rate at which level change shall be made;
d) and any other manoeuvre necessary to maintain separation as appropriate.

3.11.2 A departing aircraft may be cleared to climb, subject to remaining in VMC and maintaining own separation, until a specified time, place or level if reports indicate that this is possible. Essential traffic information will be given.

3.12 **Lamp, Pyrotechnic and Ground Signals**

3.12.1 Non-radio aircraft may be given instructions or information by signal lamp or pyrotechnics from the Control Tower and by ground

signals in the Aerodrome Signals Area.

3.12.2 Lamp and pyrotechnic signals may be made to any aircraft, radio-equipped or otherwise from a subsidiary control point such as a Runway Control Vehicle.

3.13 **Initial Calls**

3.13.1 **Initial Call to the Aerodrome Control Tower**

3.13.1.1 For aircraft on the ground being provided with an aerodrome control service, the initial call to the aerodrome control tower shall contain:

a) Callsign;
b) Position; and
c) Any additional elements, as required by the appropriate ATS authority and notified in the relevant AIP AD section.

3.13.1.2 Pilots should make arrangements to obtain time checks from sources other than ATC.

3.13.2 **IFR Flights**

3.13.2.1 Pilots of aircraft flying Instrument Departures (including those outside controlled airspace) shall include the following information on initial contact with the first en-route ATS Unit:

a) Callsign;
b) SID or Standard Departure Route Designator (where appropriate);
c) Current or passing level; **PLUS**
d) Initial climb level (ie the first level at which the aircraft will level off unless otherwise cleared. For example, on a Standard Instrument Departure that involves a stepped climb profile, the initial climb level will be the first level specified in the profile).

3.13.2.2 Unless otherwise instructed or where paragraph 3.12.2.1 applies, when changing communication channel to an ATC unit (including changes within the same ATS unit), the initial call on the new frequency shall include **aircraft identification and level only** .

3.13.2.3 When making such an initial call and the aircraft is in level flight but cleared to another level, the call shall include the **aircraft identification followed by the current level and the cleared level** .

3.13.2.4 When making such an initial call and the aircraft is not in level flight, the call shall include the **aircraft identification followed by the cleared level only** .

3.13.2.5 When making such an initial call and the aircraft has been assigned a speed, this information shall also be included.

4 Co-ordination between the Operator and ATS

4.1 Co-ordination between the Operator and ATS is effected in accordance with ICAO Annex 11 Chapter 2, paragraph 2.16 and ICAO Doc 4444 - Chapter 11 paragraphs 11.2.1.1.4 and 11.2.1.1.5.

5 Minimum Flight Altitude

5.1 The minimum flight altitudes on the ATS routes, as presented in section ENR 3, have been determined by the En-route ANSP so as to ensure a minimum vertical clearance above the controlling obstacle in the area concerned.

6 ATS Units Address List

Name	Postal Address	Tel	Fax	Telex	AFS
London Terminal Control (Swanwick)	Sopwith Way Swanwick Southampton Hampshire SO31 7AY	01489-572288	01489-612558		EGTTZGZC
	ATC Watch Supervisor	023-8040 1100			
London Area Control (Swanwick)	Sopwith Way Swanwick Southampton Hampshire SO31 7AY	01489-572288	01489-612421		EGTTZRZO
	ATC Watch Supervisor	01489-612440 or 612420	01489-612421		
	Flight Information Service	01489-611970	01489-612421		

GEN 3.3 AIR TRAFFIC SERVICES (continued)

Name	Postal Address	Tel	Fax	Telex	AFS
	Flight Plan Processing Section	01489-612423/ 612424/612425	01489-612448		
	Western Radar	01489-585511			EGTTZFZC
Scottish AC (Prestwick) Shanwick OAC (Prestwick)	Prestwick Centre Fresson Avenue Prestwick Ayrshire KA9 2GX	01292-479800	01294-655140		EGPXZRZX
	Prestwick Centre Ops Sup	01294-655300	01294-655140		

Details of other ATS Unit contact numbers and addresses appear within the AD and ENR sections.

GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES

1 Responsible Services

1.1 The Civil Aviation Telecommunications Services in the United Kingdom are administered by the Civil Aviation Authority.

Post: CNS and Spectrum, Civil Aviation Authority, Aviation House, Beehive Ring Road, Crawley, West Sussex, RH6 0YR
Email: spectrum@caa.co.uk
Phone: 033-0022 1500

1.2 **Applicable ICAO Documents**

1.2.1 The Standards, Recommended Practices and, when applicable, the procedures contained in the following ICAO documents are applied:

Annex 10	- Aeronautical Telecommunications;
Doc 7030	- Regional Supplementary Procedures;
Doc 7910	- Location Indicators for geographical locations;
Doc 8400	- ICAO Abbreviations and Codes;
Doc 8585	- Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services.

1.2.2 Differences from ICAO Standards Recommended Practices and Procedures are given at GEN 1.7.

2 Area of Responsibility

2.1 En-route Telecommunications Services

2.1.1 All en-route telecommunications (air-interpreted navigational aids and communications) services, together with those services at aerodromes administered by Highlands and Islands Airports Ltd, except where otherwise identified in the AIP, are provided by the NATS (En Route) plc.

Post: NATS (En Route) plc, Director of Service Delivery, Corporate and Technical Centre, 4000 Parkway, Whiteley, Fareham, Hampshire. PO15 7FL.
Phone: 07785-953265
Fax: 01489-444015

2.2 Communications and Navigational Aids at UK Aerodromes

2.2.1 Several organisations are approved by the CAA to provide Civil Aviation Telecommunications Services at UK aerodromes.

2.2.2 The telecommunication service provider for each aerodrome can be contacted using the ATS/ATC telephone number stated at AD 2.2/AD 3.2.

2.3 Aeronautical Fixed Telecommunication Network (AFTN)/ATS Message Handling System (AMHS) and associated Data Services

2.3.1 NATS Aeronautical Met & Messaging Service (AMMS) operates AFTN/AMHS services on behalf of the UK. AFTN/AMHS are part of the ICAO Aeronautical Fixed Service (AFS).

2.3.2 The UK is an ICAO designated Regional Operational Meteorological (OPMET) information Centre (ROC) for the management, distribution, and exchange of OPMET information within a defined area of responsibility, and between international OPMET databanks. NATS AMMS carries out the applicable responsibilities of this service as ROC London.

Post: NATS, Aeronautical Met & Messaging Service, Box 25, Sopwith Way, Swanwick, Southampton, Hampshire, SO31 7AY
Phone: Operations (H24) 01489-612790, Support (Mon-Fri) 01489-887155
Email: dataservicessupport@nats.co.uk

2.4 Enquiries and Complaints

2.4.1 Enquiries or complaints about the performance of Civil Aviation Telecommunications Services should be referred in the first instance to the operational organisation providing the services. Urgent matters should be communicated verbally and supported

GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES (continued)

by written reports.

3 Type of Service

3.1 Radio Navigation Services

3.1.1 The following types of radio aids to navigation are provided in the UK:

a) MF Non-Directional Beacon (NDB);
b) VHF Direction-Finding Station (VDF);
c) Approach Radar (RAD);
d) Precision Approach Radar (PAR) at certain military aerodromes;
e) Instrument Landing System (ILS);
f) VHF Omni-directional Radio Range (VOR);
g) Distance Measuring Equipment (DME).

3.1.2 **MF Non-directional Beacon (NDB)**

a) The range promulgated for UK NDBs is based on a daytime protection ratio between wanted and unwanted signals that limits bearing errors at that distance to ±5 degrees or less. At ranges greater than those promulgated bearing errors will increase. Adverse propagation conditions particularly at night will also increase bearing errors.
b) NDBs provided for use as approach aids, during the notified hours of ATS, at aerodromes for which instrument approach procedures are published in the AD section are notified in this AIP as locator beacons (L). Most locator beacons continue to transmit a usable signal outside notified hours, these signals are provided for the purposes of navigational aid only. Aerodrome NDBs not notified as locator beacons are provided for navigational use only.
c) Details of the Maritime Radio beacons (NDB) are published by the Hydrographer of the Navy, Hydrographic Department (MOD), Taunton, Somerset TA1 2DN, and are available from Admiralty Chart Agents.

3.1.3 **VHF Direction-Finding Station (VDF)**

a) VDF bearings are classified as follows:

- Class A: accurate to within ±2 degrees;
- Class B: accurate to within ±5 degrees;
- Class C: accurate to within ±10 degrees.

b) VDF bearing information will only be given when conditions are satisfactory. Normally no better than Class B bearing will be available.

3.1.4 **Approach Radar (RAD)**

a) The VHF communications frequencies for use with Approach Radars are listed in AD 2 item 2.18

3.1.5 **Instrument Landing System (ILS)**

a) Aircraft overflying the localizer or manoeuvring on or near the runway may disturb the ILS guidance signals. ATC will apply increased separation and such other measures considered necessary to prevent interference during Category II and III operations.
b) Such measures will also be applied at the discretion of ATS when requested by pilots wishing to use Category II and III landing procedures when meteorological conditions do not necessitate them
c) For all civil ILS notified in AD 2 item 2.19 the Localizer usable coverage sector is ±35° about the nominal course line and the glidepath provides coverage to the minimum ICAO requirement of 10 NM unless otherwise stated. Pilots using these instrument landing systems are advised not to attempt to intercept and follow the glidepath until the aircraft is established on the Localizer centre-line. Due to the presence of false courses on some localizers operating in the UK, pilots are advised not to attempt to use any ILS facility outside ±35° of the front course line. This advice is in addition to the notes promulgated in AD 2 item 2.19 for individual ILS.
d) Steep Angle facilities listed in the ILS entries in AD 2 item 2.19 provide a more limited coverage than that described in paragraph 1.5(c), the Localizer usable coverage sector being limited to 10 NM at ±35° and to 18 NM at ±10°. The glidepath provides coverage to 8 NM.
e) Although all MoD ILS facilities are technically classed as ‘uncategorised’, they are flight checked to ICAO CAT I standards. However, pilots of aircraft cleared to carry out practice auto-coupled approaches with the appropriate visual references to below CAT I limits are to note the following: Unless specifically promulgated otherwise, ILS facilities at MoD airfields are not capable of providing the required quality of beam structure to enable auto-coupled approaches to be continued below the minimum CAT I Decision Height.

3.1.6 **Instrument Landing System (ILS) and Distance Measuring Equipment (DME)**

a) A DME facility at an aerodrome, which is frequency paired with the ILS, is arranged to give zero range indication with respect to the threshold of the runway with which it is associated and precise ranges will only be indicated when aircraft are in line with the runway on the approach path. As a consequence of this, if used other than in accordance with promulgated procedures indicated range should be taken as an approximate range to the aerodrome.

GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES (continued)

3.1.7 **VHF Omni-directional Radio Range (VOR) and Distance Measuring Equipment (DME)**

a) The Designated Operational Coverage promulgated for UK VOR and DME together with details of any unsatisfactory conditions known to exist, are listed in AD 2 item 2.19 or at ENR 4.1.
b) Because inaccurate bearing information may be radiated by a VOR during a changeover to the standby transmitter, no identification signal is radiated until the changeover is completed. Pilots are advised to continually monitor the identification signal throughout a VOR approach.
c) Where a VOR and TACAN are frequency paired, but not within the co-location limit of 600 M, the last letter of the TACAN identification will be a 'Z'. Civil Pilots are advised not to make operational use of distance information provided by Military TACAN facilities promulgated as unreliable and/or transmitting a series of dots after the identification code.
d) Where an en-route VOR or VOR/DME facility has an instrument approach procedure published in the AD section, a note in Column 7 at ENR 4.1 indicates the aerodrome so served. The hours of service as an approach aid are within the notified hours of the Air Traffic Services at the aerodrome served.

3.1.8 **Aerodrome Distance Measuring Equipment (DME)**

a) Aerodrome DME referred to in an instrument approach procedure published in the AD section is provided for use as an approach aid during the notified hours of ATS only. Most DME continue to transmit outside ATC notified hours for the purpose of navigational aid only.
b) Aerodrome DME with their zero range off-set to occur at specific runway thresholds are identified by comments in Column 7 at AD 2 item 2.19. Any DME range indications observed when between runway thresholds should be ignored. Other aerodrome DME indicate true slant range from aircraft to DME site.

3.1.9 **Radio Navigation Aids - Designated Operational Coverage**

3.1.9.1 Due to the limitations in the availability of spectrum, most NDB, VOR and DME facilities operate on a shared frequency channel. Frequency planning criteria based on ICAO Standards and Recommended Practices are employed to reduce the risk of interference from other facilities operating on the same frequency (co-channel interference).

3.1.9.2 When interference occurs, it is likely to be manifested in one of the following ways:

a) Garbled identification;
b) Bearing/range errors;
c) Inability to acquire the navigational signal;
d) Acquiring the undesired signal instead of the desired one.

3.1.9.3 Under abnormal propagation conditions interference can occur. For VOR and DME this is rare in the European region. However for a NDB, such conditions occur for a number of reasons (see paragraph 3.1.11).

3.1.9.4 The attention of pilots and aircraft operators is drawn to the following:

a) Using a VOR/DME outside the Designated Operational Coverage (DOC) can lead to errors in navigation. Such errors can be dangerous. This is particularly to be noted when using multiple DME in the RNAV configuration where it is difficult, if not impossible, to make a positive identification of the beacon being used.
b) DOCs are published in the UK AIP AD 2 item 2.19 and ENR 4.1. Where pilot channel selection is made, it is essential that this document be consulted as part of the pre-flight briefing to determine the DOC of every radio navigation aid upon which the safety of the intended flight may depend.

3.1.10 **Limitations of Non-Directional Beacons and Automatic Direction Finding Equipment**

3.1.10.1 Although VHF Omni-Range facilities (VOR) have increasingly replaced Non-Directional Beacons (NDBs) in many parts of the world, NDBs are still in use as navigation and instrument approach aids and are likely to be utilised in these roles for several years to come.

3.1.10.2 The increasing use of VOR may result in pilots losing sight of the inherent limitations of the NDB and its associated airborne Automatic Direction-Finding (ADF) equipment which if used under certain conditions is capable of producing large and potentially dangerous errors.

3.1.10.3 The principal factors liable to affect NDB/ADF system performance and integrity are:

- Static Interference;
- Station Interference;
- Night Effect;
- Mountain Effect;
- Coastal Refraction;
- Absence of failure warning system.

3.1.10.3.1 Very occasionally the Authority becomes aware of other conditions in ADF/NDB systems which give rise to false indications. In all such cases notification is given to the affected aircraft and ground equipment operators.

3.1.10.3.2 **Static Interference -** All kinds of precipitation (including falling snow) and thunderstorms can cause static interference of varying

intensity to ADF systems. Precipitation static reduces the effective range and accuracy of bearing information and thunderstorms can give rise to bearing errors of considerable magnitude and even to false 'overhead' indications. Indeed it is often said that in an area affected by thunderstorm activity, the ADF bearing pointer is useful only as an indication of the direction of the most active storm cell.

3.1.10.3.3 **Station Interference -** Most countries adopt measures to minimise the possibility of interference between transmissions from different stations by spacing frequencies and limiting the power outputs of those which might conflict. However, the LF and MF frequency bands remain inevitably congested and there is a risk that some interference will occasionally occur. When interference is experienced, bearing errors of varying degree will result. By day, the use of a NDB within the promulgated service range (based on daylight conditions) will normally afford protection against interference. Providing the NDB is correctly selected and identified reliable performance can usually be expected. By night, however, it is possible for skywave signals from other (more distant) transmitters to penetrate those areas considered protected during the day, thus giving rise to the possibility of two signals being received and resulting in unreliable bearing indications. Extreme care should therefore be exercised when making use of NDBs during night or twilight hours, even when well within the promulgated service range. A similar degree of care is necessary by day when close to the limit of the promulgated service range. Positive identification of the callsign of the required NDB is essential and is just as important with modern incrementally-tuned crystal controlled ADF sets, as with the earlier designs since frequency references alone cannot guarantee that the required NDB is being unambiguously received. Following initial identification and when ADF indications are being followed, further checks on reception of the correct callsign and on the accuracy of tuning should also be made at frequent intervals.

3.1.10.3.4 **Night Effect -** At night in addition to the interference which can occur between transmissions from different stations (already described in paragraph 1.11.3.3) it is possible for the reception of a ground wave signal from an individual NDB to be contaminated by a skywave signal from the same transmission source. This will give rise to bearing errors of varying magnitude depending on the heights of the ionised layers and the polarisation of the signals on arrival at the receiver. Night effect is usually most marked during the twilight hours when skywave contamination can cause 'fading' of signal strength with resultant wandering of the ADF bearing pointer. Caution should therefore be exercised whenever fluctuations in bearing indications are observed in the circumstances described.

3.1.10.3.5 **Mountain Effect -** ADF systems may be subject to errors caused by the reflection and refraction of the transmitted radio waves in mountainous areas. High ground between the aircraft and the NDB may increase the errors especially at low altitude.

3.1.10.3.6 **Coastal Refraction -** In coastal areas the differing radio energy absorption properties of land and water result in refraction of NDB transmissions. This error, known as 'Coastal Refraction', is most marked when the transmissions cross the coastline at an oblique angle and when the NDB is located away from the coast. Such bearings should, therefore, be used with caution.

3.1.10.3.7 **Lack of Failure Warning System -** Because of the absence of failure warning devices on most ADF instruments, failure in any part of the system (including the NDB) may produce false indications which are not readily detectable. NDB failures in particular could adversely effect both systems of a dual ADF installation in the aircraft. Having selected and identified the NDB, monitoring the audio identification signal and the pointer behaviour is the correct method of assuring normal system operation. This will reduce the risk of a false indication being followed and applies particularly when making an approach toward the NDB, when, in the event of failure, the ADF pointer could indicate that the beacon is ahead of the aircraft even though the beacon has been passed. Particular care should be exercised when an instrument approach procedure is commenced at ADF pointer reversal, in Instrument Meteorological Conditions to below sector safety altitude where no independent cross check is available.

3.1.10.4 Two methods of modulation are used to transmit the Morse identification signal of a NDB. In the UK all NDB utilise Modulated Continuous Wave (N0N A2A) type of modulation but in many other countries Interrupted Continuous Wave (N0N A1A) modulation may be employed which requires the use of a Beat Frequency Oscillator (BFO) or tone generator in the ADF receiver. Pilots must therefore be aware of the type of emission to expect and to pre-select the ADF receiver controls accordingly. In the case of Interrupted Continuous Wave (N0N A1A) type emissions, the ADF bearing pointer may wander during the ident period, due to the interruptions in the carrier frequency.

3.1.10.5 In conclusion it has to be stressed that at the comparatively short distances, ie less than 50 nautical miles, over which NDB are most commonly used, the most potentially dangerous errors are those resulting from all types of precipitation static, thunderstorms and station interference (particularly at night). When these are experienced, the ADF system should be used only when necessary and then with extreme caution; VHF aids are much less affected and these should be used in preference wherever possible. Cross-checking on the accuracy of ADF indications by reference to other available navigational aids is not only a matter of good airmanship but also a most necessary safeguard wherever any difficulty is experienced in the reception or identification of the intended NDB.

3.2 Voice and/or data link Services

3.2.1 General

a) Facilities are provided to meet the Air/Ground communications requirements of the Air Traffic Services described in the AIP and the Emergency Services detailed at paragraph 3.2.7. These services include coverage over the greater part of the United Kingdom Flight Information Regions above 3000 FT. Some limited cover may be possible below this altitude.
b) United Kingdom Air/Ground facilities will communicate with aircraft on frequencies within the Aeronautical Mobile (R) Service which has been allocated to the band 118 to 136.975 MHz.

c) United Kingdom airspace utilises 8.33 kHz channel spacing in line with Assimilated Regulation (EU) No. 1079/2012. All airspace users, unless otherwise notified, in ENR 1.8, will be required to be equipped with 8.33 kHz VCS capable radios.
d) The language to be used when communicating on the United Kingdom Aeronautical Mobile Service is English.
e) Procedures to follow in the event of Radio failures are contained in the AD and ENR Sections.
f) At a civil aerodrome the following words in a callsign identify an Air Traffic Control Service: TOWER, APPROACH, GROUND, ZONE, RADAR, DIRECTOR, DELIVERY.
g) In a callsign, only the word INFORMATION is used to identify an Aerodrome Flight Information Service, Aerodrome Terminal Information Service or Area Flight Information Service.
h) In a callsign, only the word RADIO is used to identify an aerodrome Air/Ground communication service.

3.2.2 Use of VHF R/T Channels

a) Geographical separation between international services using the same or adjacent frequencies is determined so as to ensure as far as possible that aircraft at the limits of height and range to each service do not interfere with one another. In the case of en-route sectors these limits correspond to that of the ATC sector concerned and those for international aerodrome services are appropriate a radius of 25 NM up to a height of 4000 FT (TWR) or 10000 FT (APP).
b) Except in emergency, or unless otherwise instructed by the Air Traffic Services, pilots should observe these limits. Services other than international services are provided on frequencies which are shared between numerous ground stations and have to operate to a higher utilisation in order to satisfy the demand for frequencies. Pilots using these frequencies should assist in reducing interference by keeping communications to a minimum and by limiting the use of aircraft transmitters to the minimum height and distance from the aerodrome that are operationally necessary. In the case of TWR, AFIS and A/G facilities, communications on these frequencies should be restricted as far as possible to heights up to 1000 FT in the immediate vicinity of the aerodrome concerned and in any event within 10 NM and 3000 FT.

3.2.3 Common Channel for Helicopter Departures

a) At locations having no ground radio facilities a VHF channel is available to assist departing helicopters.
b) Conditions of use are:

   i. It shall only be used at locations having no radio facilities. If another VHF assignment is valid for that location, it must be used even outside the normal operating hours;
   ii. Transmissions shall occur only when helicopters are below 500 FT AGL;
   iii. Helicopters approaching a site should monitor the channel. Blind transmissions are not permitted, except where Pilot Controlled Lighting is used.

c) Departing helicopters shall state:

   i. 'To all stations';
   ii. The callsign of the aircraft;
   iii. The location either by name or by reference to a readily identifiable feature;
   iv. The direction and height of the intended departure.

d) The channel assigned is 122.955 and shall be known as 'DEPCOM'.
e) Where Pilot Controlled Lighting systems are used, arriving helicopters may transmit a sequence of microphone clicks to activate the ground lighting system, within 6 NM from the ground location. Pilot Controlled Lighting systems using the common channel must not transmit from the ground.

3.2.4 Common VHF Channel for Use at Aerodromes having no notified Ground Radio Channel

a) At aerodromes having no notified ground radio facilities a VHF channel is available to assist pilots to avoid potential collisions between arriving and departing aircraft. Pilots may use this channel to broadcast their intentions for safety purposes.
b) The channel assigned is 135.480 and is known as 'SAFETYCOM'.
c) The conditions of use are:

   i. SAFETYCOM shall only be used at aerodromes having no notified ground radio facility. If a VHF channel is notified for a location, that notified channel must be used even outside the notified operating hours.
   ii. Transmissions shall be made only within a maximum range of 10 NM of the aerodrome of intended landing, and below 2000 FT above the aerodrome elevation.
   iii. SAFETYCOM shall only be used to transmit information regarding the pilot's intentions, and there should be no response, except where the pilot of another aircraft also needs to transmit his intentions or, exceptionally, has information critical to the safety of an aircraft in a condition of distress or urgency.
   iv. Phraseology is to comply with the requirements of CAP 413 (Radiotelephony Manual) Chapter 4 Section 6.
   v. SAFETYCOM is not to be used for the conduct of formation flights unless landing at or taking off from an aerodrome for which no other frequency is notified and within the limits specified at sub paragraph (ii).
   vi. Pilots operating at aerodromes without a notified channel are recommended to use SAFETYCOM, but its use is not mandatory. However, if pilots choose to use it, they must make the transmissions listed in CAP 413 as 'essential'. It must not be assumed that all other pilots in the vicinity are monitoring the channel and, as at all other times, pilots must maintain a good lookout.
   vii. No air traffic service is associated with SAFETYCOM. Where an aerodrome lies within controlled airspace, pilots must establish contact with the responsible air traffic services unit, and obtain clearance prior to entering controlled airspace.
   viii. Information transmitted on SAFETYCOM confers no priority or right of way. Pilots shall comply with the Rules of the Air Regulations, including the provisions in relation to avoiding aerial collisions.

GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES (continued)

d) Unless specifically approved by the CAA, SAFETYCOM is not to be used for special events as defined in CAP 403 (Flying Displays and Special Events: A Guide to Safety and Administrative Arrangements). Channels for special events should continue to be requested through existing contacts.

3.2.5 **VHF Low Level Common Frequency for use within the UK Low Flying System (UKLFS)**

a) Available for use by all aircrew, military and civilian, operating in Class G airspace at or below 2000 FT AGL in the UKLFS and should be monitored whenever possible.
b) Pilots should use this channel to broadcast their intentions to help improve situational awareness between all aircrew operating in the same area.
c) The channel assigned is 130.490 and shall be known as the “LL-Common Frequency”.
d) The conditions of use are:

i. Pilots should make use of the LL Common Frequency only when not in receipt of a Lower Airspace Radar Service or other Air Traffic Service, or when operating outside an area where a Frequency Monitoring Code and associated ATC frequency/channel is used.
ii. Pilots should make blind calls. To prevent clutter the channel must not be used as a chat channel.
iii. Transmissions should be accurate, clear and concise.

e) Transmission Timing:

i. When safe and suitable.
ii. When entering/exiting the UKLFS.
iii. At turning points or significant heading changes.
iv. Approaching well-known and recognisable physical features.
v. Any time it is considered beneficial to the safety of the aircraft.

f) Blind call Content:

i. Call Sign.
ii. Aircraft type (and number, in case of formations).
iii. Position in relation to reference points immediately identifiable to other pilots (using cardinal or inter-cardinal directions).
iv. Altitude.
v. Heading.
vi. Next significant reference point.

g) Details of the UKLFS are shown in ENR 6-20 and ENR 6-21.

Note: *Whilst civil aircraft will broadcast their Altitude above sea level based on QNH, military aircraft in the UKLFS will be operating on Radar Altimeter heights and broadcasting their height Above Ground Level. Civil operators should consider their actual height above ground when assessing any potential conflict with military traffic.*

3.2.6 **Common Air-to-Air Channels for General Aviation**

a) Two channels 123.065 and 123.135 have been assigned for Air-to-Air communications. These channels should be used to share important safety information between pilots, where information is not provided by other services, such as ATC or FIS, mainly in uncontrolled airspace.

- Sharing Weather Issues
- Formation Flights
- Flights in Areas without ATC (Airspace Classes Golf and Echo)
- Flights in Areas without FIS Coverage
- Local Competitions (within Flying Clubs)
- Self-Coordination

b) The channels will eventually be allocated European-wide to enable cross-border communication without the necessity to retune to other channels. The International Council of Aircraft Owner and Pilot Associations (IAOPA) can provide an updated list of other States currently using these channels for Air-to-Air communications.

3.2.7 **Emergency Service**

a) An emergency communications and aid service is continuously available on 121.500 from the Distress and Diversion (D & D) section located at RAF (U) Swanwick.
b) Operational control is exercised from RAF (U) Swanwick D & D, callsign 'LONDON CENTRE'. The service provides coverage over the greater part of the United Kingdom above 3000 FT. In addition, the stations and units listed at GEN 3.6 have the capability of providing an emergency service on 121.500. (For further details see GEN 3.6, paragraph 6.5).
c) Pilots of aircraft in emergency and using 121.500 should broadcast the initial 'MAYDAY' or 'PAN PAN' call. The Air Traffic Controller at Swanwick will answer the call and initiate appropriate action. (For use of SSR in emergency see ENR 1.6).
d) If the emergency is ended the pilot should inform the controlling authority of the fact and state his intentions before leaving the frequency. This will ensure that any action to alert diversion aerodromes or other assistance will be cancelled.
e) Details of the ATSUs with Emergency Facilities are shown at GEN 3.6.

GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES (continued)

3.2.8 **Emergency Satellite Voice Calls from Aircraft** – See GEN 3.6.

3.2.9 **Radio Communications between Aerodrome Fire Services and Aircraft during an Emergency**

a) Whenever an emergency has been declared at an aerodrome where this service is notified, aircraft may communicate direct with the Fire Service in attendance with the following conditions:

i. The service must be used only when the aircraft is on the ground.
ii. Contact with ATC, on the appropriate frequency must be maintained.

Note: *This service is only available by arrangement via ATC and may only be used for the duration of the emergency. The fire service does not normally monitor this service at other times.*

b) The availability of this service is indicated in the AD section at item 2.18. It should be noted that the service provided is not an Air Traffic Service.

3.2.10 **Aeronautical Fixed Services**

3.2.10.1 In the United Kingdom the following Aeronautical Fixed Services are provided:

a) The Operational Telephone Network for use by ATC and supporting operational services;
b) the Administrative Telephone Network for use by authorised agencies connected with air traffic operations;
c) the Aeronautical Fixed Telecommunications Network (AFTN), for the exchange of messages between aeronautical fixed stations within the network.

Note: *Messages of authorised categories can be accepted at designated stations for transmission on the AFS. The rules and procedures for handling of communications on the AFS are contained in Annex 10, Vol II Chapters 3-4.*

3.3 Aeronautical Broadcast Service

3.3.1 The Aeronautical Broadcast Services provide broadcasts which contain meteorological, navigation and aerodrome information.

3.3.2 Details of navigation and aerodrome information broadcasts are listed under the name of the controlling aerodrome or Air Traffic Control Unit in the AD section at 2.18/3.17 (Air Traffic Services Communication Facilities).

3.3.3 Meteorological Radio Broadcasts (VOLMET) are available for the use of aircraft in flight. Full details are given in subsection GEN 3.5, paragraph 7 (VOLMET Service).

3.3.4 Aeronautical Fixed Service (AFS) Operational Meteorological (OPMET) information broadcasts are disseminated to all civil aviation users that register for access to the AFS OPMET Service. Full details are given in subsection GEN 3.5, paragraph 9 (Other automated meteorological services).

4 Requirements and Conditions

4.1 **Approval and Licensing of Aircraft Radio Stations**

4.1.1 **General**

4.1.1.1 The Civil Aviation Authority must approve in writing the design and installation of radio equipment in aircraft and the station must be licensed by the Ofcom, Aeronautical Licensing Section before such radio equipment may be operated in an aircraft. The regulations governing the compulsory carriage of radio equipment are contained in Part III of the UK Air Navigation Order.

4.1.2 **Approval and Licensing Procedure**

4.1.2.1 Full details of the procedure governing the approval and licensing of aircraft radio stations, together with information regarding modifications to such stations, are contained in Assimilated Regulation (EU) 2018/1139 (the UK Basic Regulation) and its delegated and implementing act.

The approval of an aircraft radio station is based, among other things, upon the results of radio tests in flight; details of the associated procedures are given below.

4.1.3 **Carriage of Radio and Radar Equipment**

4.1.3.1 The requirements for the carriage of radio and radar equipment are contained in the UK Air Navigation Order and the Air Navigation (General) Regulations 1993 as amended. The main provisions are published at GEN 1.5 paragraph 5.

4.1.4 **Radio Tests in Flight**

4.1.4.1 The CAA only expects Radio Tests in flight to be carried out in exceptional circumstances.

4.1.4.2 Tests of VHF RTF communications equipment may be carried out with one of the Air Traffic Service Units listed below. Such tests may only be carried out on the frequency stated and when the aircraft is within the Designated Operational Coverage (DOC) of

GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES (continued)

the station as described in the table below.

Air Traffic Service Unit	RTF Call sign	Channel/ Frequency (MHz)	DOC (based upon ARP unless otherwise stated)
Aberdeen/Dyce	Aberdeen Approach / Aberdeen Radar	119.055	55 NM / FL 250
Belfast Aldergrove	Aldergrove Approach / Aldergrove Radar	133.125	60 NM / FL 245
Birmingham	Birmingham Radar	123.980	40 NM / FL 200
Bournemouth	Bournemouth Approach / Bournemouth Radar	119.480	50 NM / FL 120
Cambridge	Cambridge Approach	120.965	40 NM / FL 200
Cardiff	Cardiff Approach / Cardiff Radar	125.855	50 NM / FL 190
East Midlands	East Midlands Radar	134.180	60 NM / FL 150
Edinburgh	Edinburgh Approach /Edinburgh Radar	121.205	40 NM / FL 100
Exeter	Exeter Approach / Exeter Radar	128.980	40 NM / FL 160
Glasgow	Glasgow Approach / Glasgow Radar	119.105	25 NM / FL 100
Isle of Man	Ronaldsway Approach / Ronaldsway Radar	120.855	40 NM / FL 100
Leeds Bradford	Leeds Approach / Leeds Radar	134.580	40 NM / FL 100
Liverpool	Liverpool Approach /Liverpool Radar	119.855	40 NM / FL 100
London Terminal Control	Stansted Radar	120.625	Within the operational area of Stansted Radar.
Newcastle	Newcastle Approach / Newcastle Radar	124.380	60 NM / FL 250
Norwich	Norwich Approach / Norwich Radar	119.355	40 NM / FL 70
Prestwick	Prestwick Approach / Prestwick Radar	129.450	40 NM / FL 195
Shoreham	Shoreham Approach / Shoreham Tower / Shoreham Radio	123.155	25 NM / FL 100
Southend	Southend Approach / Southend Radar	130.780	40 NM / FL 100
Sumburgh	Sumburgh Tower	118.255	25 NM / FL 40

4.1.4.3 Please note that not all these aeronautical radio stations operate H24, for hours of operation refer to the relevant aerodrome's AIP entry.

4.1.4.4 Prior arrangement with these aeronautical radio stations is not required, however, when radio traffic conditions are unfavourable it may not be possible for tests to be carried out. Where possible prior arrangements with the ATSU concerned should be made.

4.1.4.5 Test of HF RTF communications equipment may be carried out with any ATSU that is suitably equipped, it should be noted that the UK does not have any ATSU that operate HF for this purpose.

4.1.4.6 Radio tests in flight of other radio equipment, including the testing of all prototype radio equipment, shall only be carried out with the prior agreement of the Safety Regulation Group of the Civil Aviation Authority.

4.1.4.7 **Conditions for Tests**

4.1.4.7.1 Except where problems are suspected to have developed during the current flight, RTF equipment tests in flight shall only be made following satisfactory ground testing.

4.1.4.7.2 VHF RTF test transmission may only be made with the following emission characteristics.

4.1.4.7.2.1 6K80A3EJN for 25 kHz frequency assignments.

4.1.4.7.2.2 5K00A3EJN for 8.33 Channel assignments.

4.1.4.7.3 HF RTF test transmissions may only be made, using fixed or trailing antenna, with either 2K70J3EJN or 6K00A3EJN emission characteristics as appropriate to the radio station that the communications is with.

4.1.4.8 **Priority of Messages**

4.1.4.8.1 Communications concerning safety or flight regularity will always be given priority over messages transmitted for test purposes.

4.1.4.9 **Radio Test in Flight Procedure**

4.1.4.9.1 Aircraft must meet minimum airworthiness requirements before commencing any flight for radio test in flight purposes.

4.1.4.9.2 Aircraft must comply with the Air Traffic Service rules applicable to the area within which they are flying.

4.1.4.9.3 All radio transmissions for test in flight purposes shall be of the minimum duration necessary for the test and shall not continue for

more than 10 seconds. The recurrence of such transmissions shall be kept to the minimum necessary for the test.

4.1.4.9.4 The nature of the test transmission shall be such that it is identifiable as a test transmission and can not be confused with other communications. To achieve this the following format shall be used:

a) 'the call sign' of the aeronautical radio station being called, followed by the words ‘THIS IS’;
b) 'the aircraft identification';
c) the words ‘RADIO CHECK ON’;
d) 'the channel (or frequency (MHz))' being used for the test;
e) 'the aircraft identification'.

4.1.4.9.5 The operator of the aeronautical radio station being called will assess the transmission and will advise the aircraft making the test transmission in terms of the readability scale below, together with a comment on the nature of any abnormality noted (ie excessive noise) using the following format:

a) ‘the aircraft identification' followed by the words ‘THIS IS’;
b) 'the call sign' of the aeronautical radio station replying;
c) information regarding the readability of the aircraft transmission using the words ‘READABILITY x’ where 'x' is a number taken from the table below that equates to the assessment of the transmission;
d) additional concise and unambiguous information with respect to the noted abnormality may be given;
e) 'the call sign' of the aeronautical radio station replying;
f) for practical reasons it may be necessary for the operator of an aeronautical radio station to reply with ‘THIS IS' followed by 'the call sign' of the aeronautical radio station ‘STATION CALLING ON’ state 'the channel (or 8.33 frequency (MHz)) UNREADABLE’

Quality	Scale
Unreadable	1
Readable now and then	2
Readable but with difficulty	3
Readable	4
Perfectly Readable	5

4.1.4.9.6 The test transmission and reply thereto are recorded at the ATSU.

4.1.4.9.7 The operator of the airborne station shall complete a 'Flight Test Report' based upon the assessment information conveyed to them, this should be recorded in the aircraft maintenance records. Action should be taken to rectify any identified problems be fore further test or use.

4.2 Approval and Licensing of Ground Radio Stations

4.2.1 General

4.2.1.1 The Civil Aviation Authority must approve in writing the operation of a ground radio station and the station must be licensed by Ofcom under the terms of the Wireless Telegraphy Act before it may be operated.

4.2.2 Approval and Licensing Procedure

4.2.2.1 Full details of the procedures governing the approval and licensing of ground radio stations are obtainable from:

Post: Civil Aviation Authority, ATM Oversight Team, Aviation House, Gatwick Road, Gatwick Airport South, West Sussex RH6 0YR
Phone: 03301-382036/03301-382883
Email: Approvals.RCS@caa.co.uk

4.2.2.2 Full details of the procedures governing the Wireless Telegraphy Act, aeronautical licensing are obtainable from:

Http: www.ofcom.org.uk/manage-your-licence/radiocommunication-licences/aeronautical-licensing

4.3 Malfunctions, Maintenance and Test Transmissions

4.3.1 During periods of malfunction or maintenance of navigational aids, the promulgated identification signal is suppressed as a means of warning users that the transmission cannot be safely used for navigation purposes. The identification signal will be suppressed in one of two ways:

a) by complete removal;
b) by radiating a continuous tone.

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4.3.2 Any transmission using the identification 'TST' is radiating for test purposes only and must not be used for operational purposes.

4.4 **Interference from High Powered Transmitters**

4.4.1 Pilots are advised that interference may be experienced in aircraft flying in the vicinity of high power broadcast stations. If such interference is troublesome or is experienced well beyond the vicinity of the ground transmitter, pilots are requested to report concerns to the Civil Aviation Authority.

4.4.2 The CAA coordinates through Ofcom to ensure that any changes or additions to the FM broadcasting service in the UK and adjacent states do not have any impact on FM immune ILS/VOR navigation and VHF communications receivers. Older receivers that do not meet the FM immune standard may suffer interference.

4.4.2.1 Since 1 Jan 2001, the use of FM-immune ILS/VOR navigation and VHF communications receivers is required for IFR operations within the London and Scottish FIRs. Further details of FM immunity requirements are listed in GEN 1.5.

4.4.3 Safety concerns can be reported to the CAA marked for the attention of ‘CNS and Spectrum Team’ using the details below:

Post: Civil Aviation Authority, CNS and Spectrum Team, Aviation House, Gatwick Road, Gatwick Airport South, West Sussex RH6 0YR
Http: www.caa.co.uk/Our-work/Make-a-report-or-complaint/Report-a-safety-concern/

Reports should include the following information:

a) Frequency on which interference occurred;
b) Approximate position and height of aircraft;
c) aircraft registration letters;
d) date and time of interference;
e) description of interfering signal e.g. music, speech, language, etc.

4.4.4 Other sources of High Intensity Radio Transmission (HIRTA) are listed in the ENR Section. Pilots are warned that within the areas defined, interference or damage to aircraft electronic equipment may occur. Navigation information from equipment may be unreliable.

5 Miscellaneous

5.1 To be developed.

GEN 3.5 METEOROLOGICAL SERVICES

1 Responsible Service

1.1 The Civil Aviation Authority is the Meteorological Authority for the United Kingdom (UK). This authority is derived from Directions issued under section 66(1) of the Transport Act 2000 relating to the Civil Aviation Authority's performance of air navigation functions. The policy of the UK Met Authority is to discharge its responsibilities for the provision of meteorological services to UK based national and international civil aviation operations in accordance with International, European, and National requirements as may be promulgated from time to time including Regulation (EU) No 2017/373 as retained (and amended in UK domestic law) under the European Union (Withdrawal) Act 2018, ICAO Annex 3 and CAP 746.

Post: Civil Aviation Authority, Aviation House, Beehive Ringroad, Crawley, West Sussex, RH6 0YR
Email: metauthority@caa.co.uk

1.2 Meteorological forecasting and climatological services for civil aviation in the United Kingdom are provided by the Met Office designated as the Meteorological Air Navigation Service Provider (ANSP) for the UK under the EU Service Provision Regulation:

Post: Hd Aviation Business, Met Office, Fitzroy Road, Exeter, EX1 3PB

Phone: 0330-135 0000 and 0370-900 0100 or outside the UK +44 (0)330-135 0000

Fax: 0330-135 0050 or outside the UK +44 (0)330-135 0050

AFS: EGRRYTYH (Administrative) or EGRRYMYX (Operations Centre)

Email: enquiries@metoffice.gov.uk

1.3 Applicable ICAO Documents

1.3.1 The Standards, Recommended Practices and, when applicable, the procedures contained in the following ICAO documents are applied:

Annex 3	- Meteorological Service for International Air Navigation;
Doc 7754	- Air Navigation Plan - EUR Region;
Doc 8400	- PANS - ICAO Abbreviations and Codes;
Doc 8755	- Air Navigation Plan - NAT Region;
Doc 8896	- Manual of Aeronautical Meteorological Practice;
Doc 9328	- Manual of Runway Visual Range Observing and Reporting Practices.

1.3.2 The UK Met Authority's objective is to supply operators, flight crew members, ATS units, airport management and other civil aviation users with the meteorological information necessary for the performance of their respective functions, thus contributing towards the safety, regularity and efficiency of air navigation. All ICAO Annex 3 standards and recommended practices, including ICAO definitions listed in Chapter 1 of Annex 3, are applied in the UK unless a difference has been filed with ICAO. UK differences from ICAO standards and recommended practices are listed in GEN 1.7.

2 Area of Responsibility

2.1 The United Kingdom provides area Meteorological Watch for the London and Scottish FIR/UIRs and for the Shanwick Oceanic FIR. The Met Office's Operations Centre, Exeter, acts as the Meteorological Watch Office (MWO) for these areas.

2.2 The UK operates one of the two World Area Forecast Centres (WAFC), responsible for the provision of global forecasts of significant weather and the following global grid point data; wind, temperature, humidity, tropopause height and temperature, maximum wind speed, direction and height. In the event of an interruption of the operation of a WAFC, its functions will be provided by the other WAFC. Additionally, the UK operates a Volcanic Ash Advisory Centre; further information on this service can be found at https://www.metoffice.gov.uk/services/transport/aviation/regulated

3 Meteorological Observations and Reports

3.1 **Observing Systems and Operating Procedures**

3.1.1 Surface wind sensors on aerodromes are positioned to give the best practical indication of the winds which an aircraft will encounter during take-off and landing within the layer between 6 and 10 M above the runway(s). The surface wind reported for take-off and landing by ATS Units at aerodromes supporting operations by aircraft whose maximum total weight authorised is below 5700 KG is usually an instantaneous wind measurement with direction referenced to Magnetic North. However, at other designated aerodromes the wind reports for take-off and landing are averaged over the previous 2 minutes. Variations in the wind direction are given when the total variation is 60° or more and the mean speed 3 KT or more, the directional variations are expressed as the two extreme directions between which the wind has varied in the past 10 minutes. In reports for take-off, surface winds of 3 KT or less include a range of wind directions whenever possible if the total variation is 60° or more. Variations from the mean wind speed (gust and lulls) during the past 10 minutes are only reported when the variation from the mean speed has

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exceeded 10 KT. Such variations are expressed as the maximum and minimum speeds attained.

3.1.1.1 At aerodromes which normally report surface wind averaged over the previous 2 minutes, the instantaneous wind velocity is available on request. Where an instantaneous wind velocity has been requested the word 'instant' will be inserted in the report (eg. 'G-CD Runway 34 cleared to land instant surface wind 270 7' or 'G-CD Runway 34 cleared to land instant 270 7'). An indication of the wind velocity normally reported at particular aerodromes is included in Table 3.5.3.2.

3.1.1.2 Surface wind measurements contained in the Meteorological Aerodrome Report, METAR and special report are referenced to True North and are averaged over the previous 10 minutes, except when during the 10 minute period there is an abrupt and sustained change in wind direction of 30° or more, with a wind speed of at least 10 KT both before and after the change, or a change in wind speed of 10 KT or more lasting more than 2 minutes. In this case only data occurring since the abrupt change will be used to obtain the mean values. METAR and special reports may give variations in wind direction if during the 10 minute period preceding the time of observation, the total variation in wind direction is 60° or more but less than 180° and the speed is 3 KT or more. The maximum speed is only given if it exceeds the mean speed by 10 KT or more. At aerodromes with wind sensors at two or more sites, METAR surface wind reports are always obtained from one designated 'aerodrome system' irrespective of the system currently in use by the ATS Unit for take-off and landing reports.

3.1.2 Temperature is reported in whole degrees from liquid-in-glass or electrical resistance thermometers located in a ventilated screen.

3.1.3 Horizontal surface visibility is assessed by human observer, assisted at some aerodromes by a visiometer. Visibility is reported in increments of 50 M up to and including 800 M and then increments of 100 M up to 5000 M and in units of kilometres for 5000 M or more.

3.1.3.1 Pilots are reminded that surface visibility forecast in a TAF, TREND or Area Forecast might be subject to marked deterioration caused by smoke at any time. Such deteriorations in surface visibility will be reported as they occur in routine or special aerodrome meteorological reports and forecasts might consequently be amended. It is not possible to forecast the onset or cessation of the smoke, or the precise amount of visibility deterioration. Turbulence and breathing difficulty might be encountered in the area affected by the smoke.

3.1.4 For aerodromes employing IRVR systems.

3.1.4.1 RVR tendency abbreviations U, D or N shall be reported in METARs. When the variation of the RVR values shows an upward or downward tendency, this should be indicated by the abbreviation 'U' or 'D', respectively. In cases when actual fluctuations during the 10-minute period show no distinct tendency, this should be indicated using the abbreviation 'N'. When indications of tendency are not available, no abbreviations should be included.

3.1.4.2 When the RVR is above the maximum value that can be determined by the system in use, it shall be reported using the abbreviation 'ABV' in local routine and local special reports, and when the RVR is below the minimum value that can be determined by the system in use, it shall be reported using the abbreviation 'BLW' in local routine and local special reports.

3.2 **Accuracy of Meteorological Measurement or Observation**

The United Nation's World Meteorological Organisation (WMO) has assessed the attainable accuracy of meteorological measurement or observation of a number of meteorological parameters, described below. However it should be noted that in most cases this exceeds the requirements for aeronautical meteorological observations specified by ICAO.

Element	Accuracy of Measurement or Observation
Mean surface wind	Direction: ± 5° Speed: ± 1 KT up to 10 KT, ± 10% above 10 KT
Variations from the mean surface wind speed	± 1 KT
Visibility	± 50 M up to 550 M ± 10 % between 600 M and 1500 M ± 20 % above 1500 M
RVR	± 10 M from 50 M to 400 M ± 25 M from 400 M to 800 M ± 10 % above 800 M
Cloud amount	± 1 okta
Cloud height	± 30 FT up to 300 FT ± 10 % above 300 FT
Air temperature and dew point temperature	± 1°C
Pressure value (QNH, QFE)	± 0.5 hPa

3.3 Details of UK aerodromes certified to provide METARs are listed in Table 3.5.3.2. Whilst a list of those aerodromes certified to provide local observations only is given in paragraph 3.7.

3.4 **Aerodrome Weather Warnings Service**

3.4.1 Aerodrome Warnings will be issued at the times shown in the table below, and for the periods of validity indicated, if one or more

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of the specified phenomena occurs or is expected to occur (Note: Thunderstorms will have at least 15 minutes lead time). If it is forecast that there is a 40% or greater chance that the phenomena will occur, the warning will say that the phenomena is 'likely to occur'. If there is a less than 40% chance that the phenomena will occur, the warning will say that the phenomena 'may occur':

Set review and Issue Times between (See Note)	Maximum Validity Period Thunderstorm warnings	Maximum Validity Period All other warnings
0530 - 0545	0600 - 1200	1200 - 1800
1130 - 1145	1200 - 1800	1800 - 0000
1730 - 1745	1800 - 0000	0000 - 0600 (next day)
2330 - 2345	0000 - 0600 (next day)	0600 - 1200 (next day)
Note: *For operational reasons certain aerodromes will be provided with an Enhanced Warning Service and at these aerodromes warnings will be issued and amended 24/7 as required.*		

a) Gales (when the mean surface wind is expected to exceed 33 KT, and/or if gusts are expected to exceed 42 KT);
b) Strong wind warnings (When the surface wind is expected to reach or exceed mean wind speed 20 KT and/or gusts of 28 KT);
c) thunderstorms, hail or squalls;
d) snow, including the:

   i. time of onset;
   ii. intensity (slight, moderate or heavy);
   iii. expected time of cessation (including thaw if appropriate);
   iv. approximate depth of snow likely (cm) and;
   v. type of snow (Wet or Dry);
   vi. possibility of drifting (significant falls of snow with high winds (>15 KT);
   vii. visibility when expected to fall below 600 M.

e) frost warnings are issued when any of the following conditions are expected:

   i. A ground frost with air temperatures not below freezing point;
   ii. the air temperature above the surface is below freezing point (air frost);
   iii. frozen deposits (hoar frost, rime or glaze) are expected to form on parked aircraft, runways or taxiways.

f) fog (when the visibility is expected to fall below 600 M);
g) freezing rain or drizzle.

Amendments or cancellations will not be issued.

3.4.2 Aerodrome operators requiring notification of the above warnings should apply to the MET Authority (see GEN 3.5 paragraph 1).

3.4.3 The normal method of notifying Aerodrome Warnings is by a single AFS or email to the aerodrome, with local dissemination of the warning being the responsibility of the aerodrome operator. Warnings will also be published on the Met Office website: https://www.metoffice.gov.uk/services/transport/aviation/regulated/aviation-briefing-service-guidance and all aviation users can register via the website to receive email alerts.

3.5 **Special Facilities**

3.5.1 Warnings of Marked Temperature Inversion are issued whenever a temperature difference of 10°C or more exists between the surface and any point up to 1000 FT above the aerodrome. This warning is broadcast on departure and arrival ATIS at aerodromes so equipped, or in the absence of ATIS passed by radio to departing aircraft before take-off, and to arriving aircraft as part of the report of aerodrome meteorological conditions.

3.5.2 **Windshear Warning Service**

3.5.2.1 Forecasters regularly review the weather conditions and monitor aircraft reports of windshear experienced on the approach or climb out. Where a potential low level (below 1600 FT) windshear condition exists, a Warning is issued; this will be based on one or more of the following criteria:

a) Mean surface wind speed at least 20 KT;
b) the magnitude of the vector difference between the mean surface wind and the gradient wind (an estimate of the 2000 FT wind) at least 40 KT;
c) thunderstorm(s) or heavy shower(s) within approximately 5 NM of the airport.

Note 1: *Warnings are also issued based on recent pilot reports of windshear on the approach or climb-out.*

Note 2: *Windshear warnings will be cancelled when aircraft reports indicate that windshear no longer exists.*

3.5.2.2 The Warning message is given in the arrival and departure ATIS broadcasts in one of three formats:

a) 'WINDSHEAR FORECAST' (WSF) - when the meteorological conditions indicate that low level windshear on the approach or climb-out (below 2000 FT) might be encountered;
b) 'WINDSHEAR FORECAST AND REPORTED' (WSFR) - as above, supported by a report from at least one aircraft of windshear on the approach or climb-out within the last hour;

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c) 'WINDSHEAR REPORTED' (WSR) - when an aircraft has reported windshear on the approach or climb-out within the last hour, but insufficient meteorological evidence exists for the issue of a forecast of windshear.

3.5.2.3 Pilot reports of windshear on approach or climb-out can greatly enhance the operational efficiency of this service. In addition, they also serve in the continuous evaluation of the criteria upon which Warnings are forecast. Thus pilots who experience windshear on the approach or climb-out are requested to report the occurrence to ATC, as soon as it is operationally possible to do so, even if a warning has been issued. Windshear reporting criteria are shown at paragraph 6.3.2. Pilots who experience windshear at any UK aerodrome are requested to report it in the same way.

Note: *No UK aerodromes are currently equipped with automated ground-based remote-sensing equipment for the detection of windshear.*

3.5.3 **Runway Visual Range (RVR)**

3.5.3.1 RVR assessment is made by either a Human Observer or an Instrumented RVR system (IRVR). Most IRVR systems have an upper limit of 1500 M; the upper limit of the Human Observer system is normally less than this. The system in use at particular aerodromes is indicated in Table 3.5.3.2, and explained in Table 3.5.3.3.

3.5.3.2 The United Kingdom standard RVR reporting incremental scale is 25 M between 0 and 400 M, 50 M between 400 and 800 M, and 100 M above 800 M. Some IRVR systems are unable to report every incremental point in the scale. Known limitations in IRVR systems are as follows:

Liverpool (EGGP)	IRVR 50 - 1500 M (175 M not reported).
London/City (EGLC)	IRVR 50 - 1500 M IRVR remains serviceable if TDZ fails.
London Gatwick (EGKK)	RWY 08L IRVR remains serviceable if TDZ fails.
	RWY 26R TDZ IRVR is considerably displaced from Start-to-Roll position.

3.5.3.3 The assessment and reporting of RVR begins whenever the horizontal visibility or the RVR is observed to be less than 1500 M. At those aerodromes where IRVR is available, RVR may also be reported when the observed value is at or below the maximum reportable value or when shallow fog is forecast or reported.

3.5.3.4 RVR is passed to aircraft before take-off and during the approach to landing. Changes in the RVR are passed to aircraft throughout the approach. Additionally, information from pilot reports or ATC observation that the visibility on the runway is worse than that indicated by the RVR report, for example patches of thick fog, are passed.

3.5.3.5 Table 3.5.3.2 shows which IRVR system is provided at an aerodrome. Aerodromes using AGIVIS systems suppress mid-point and/or stop-end values when:

a) They are equal to or higher than the touchdown zone value unless they are less than 400 M; or
b) they are 800 M or more.

Aerodromes using MET-1 systems suppress mid-point and/or stop-end values unless they are 550 M or less.

3.5.3.6 At those aerodromes having multi-site IRVR the standard UK procedure is that the touchdown zone RVR is always given first, followed by any values for the mid-point RVR and/or stop-end RVR which have not been suppressed. With the above in mind, the co-operation of the pilots is sought in avoiding unnecessary radio requests for mid-point and/or stop-end values when they have not been given. When all three values are given they are passed as a series of numbers, for example, 'RVR 600, 500, 550' relates to touchdown zone, mid-point and stop-end respectively. If two values are to be passed, they are to be individually identified, eg 'touchdown 650, stop-end 550'.

3.5.3.7 If a single transmissometer fails, and the remainder of the IRVR system is still serviceable, RVR readings are not suppressed for the remaining sites and these values are passed to pilots. For example, if the touchdown zone transmissometer is unserviceable, 'RVR: touchdown not available, mid-point 600, stop-end 400'. If two transmissometers fail in a three-site IRVR system, the remaining value is passed and identified provided that it is not the stop-end value, in which event the system is considered unserviceable for that runway direction. In a two-site IRVR system, giving touchdown zone and stop-end values, if the touchdown zone transmissometer fails, the system is considered unserviceable for that runway direction.

3.5.3.8 When RVR information is not available, or when the RVR element of Aerodrome Operating Minima falls outside the range of reportable RVR, pilots should use meteorological visibility in the manner specified in their operations manuals, or at AD 1.1 subsection 4 (Aerodrome Operating Minima – Non-public transport flights by aircraft).

3.6 Climatological information for certain UK aerodromes is available for civil aviation purposes from the Met Office, according to the following criteria:

Table 3.5.3.1 — Climatological Information

A	Climatological statistics readily available based on at least 10 years' of three-hourly (usually hourly) data.
B	Climatological statistics readily available based on less than 10 years' data and/or some gaps in night-time data.
C	Limited climatological statistics available based on available METAR reports starting July 1983 or later.
D	No data available or insufficient data available to provide climatological statistics.

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The aerodromes are so classified at Table 3.5.3.2.

3.6.1 Climatological statistics for routes and areas in the United Kingdom are not available. However, global climatology of upper wind and temperature data is held by the Met Office.

3.6.2 Climatological data related to sites for new aerodromes (or additional runways at existing aerodromes) are available from the Met Office.

Table 3.5.3.2 —Aerodromes providing METARs

Aerodrome/ Location Indicator	Observations			Surface Wind	RVR		Obs Hours	Climatological Data
	Type	Freq	Warnings		Sites	Eqpt		
Aberdeen/Dyce EGPD	METAR ‡*	h	AW	Average	16 TDZ/END 34 TDZ/END	BIRAL FSM BIRAL FSM	H24	A, C
Alderney EGJA	METAR	h	AW	Average	08/26 TDZ	OBS	HO	C
Belfast Aldergrove EGAA	METAR ‡	h	AW	Average	07 TDZ/MID/END 25 TDZ/MID/END 07 TDZ 17 TDZ 25 TDZ/MID 35 TDZ	AGIVIS AGIVIS OBS OBS OBS OBS	H24	A
Belfast City EGAC	METAR ‡	h	AW	Average	04/22 TDZ/END	AGIVIS FSM	HO	C
Benbecula EGPL	METAR ¶	h	AW	Average	06/24 TDZ	OBS	HO	A
Biggin Hill EGKB	METAR ¶	h	AW	Average	03/21 TDZ/MID/END 03/21 TDZ	Vaisala FSM OBS	HO	C
Birmingham EGBB	METAR #	h	AW	Average	15 TDZ/MID/END 33 TDZ/MID/END	AGIVIS AGIVIS	H24	C
Blackpool EGNH	METAR	h	AW	Average	10/28 TDZ	OBS	HO	A, C
Bournemouth EGHH	METAR	h	AW	Average	08/26 TDZ/MID/END	AGIVIS	HO	A
Bristol EGGD	METAR ‡	h	AW	Average	09/27 TDZ/MID/END	AGIVIS	H24	C
Caernarfon EGCK	METAR ¶	h	AW	Average			HO	D
Cambridge EGSC	METAR	h	AW	Average	05/23 TDZ	Vaisala FSM	HO	C
Campbeltown EGEC	METAR	h	AW	Average			HO	B
Cardiff EGFF	METAR ‡	h	AW	Average	12/30 TDZ/END	AGIVIS	H24	C
Cranfield EGTC	METAR	h	AW	Average			HO	C
Dundee EGPN	METAR	h	AW	Average			HO	D
East Midlands EGNX	METAR	h	AW	Average	09 TDZ/MID/END 27 TDZ/MID/END	AGIVIS AGIVIS	H24	C
Edinburgh EGPH	METAR	h	AW	Average	06 TDZ/MID/END 24 TDZ/MID/END	AGIVIS AGIVIS	H24	A
Exeter EGTE	METAR	h	AW	Average	08 TDZ/MID/END 26 TDZ/MID/END	CS FSM	HO	A, C
Farnborough EGLF	METAR ¶ ‡	h	AW	Average	06/24 TDZ/END	AGIVIS	HO	B
Glasgow EGPF	METAR ‡	h	AW	Average	05 TDZ/MID/END 23 TDZ/MID/END	AGIVIS AGIVIS	H24	A
Gloucestershire EGBJ	METAR	h	AW	Average	09/27 TDZ	OBS	HO	C
Guernsey EGJB	METAR	h	AW	Average	09/27 TDZ/END	AGIVIS	HO+	A

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Table 3.5.3.2 —Aerodromes providing METARs

Aerodrome/ Location Indicator	Observations			Surface Wind	RVR		Obs Hours	Climatological Data
	Type	Freq	Warnings		Sites	Eqpt		
Hawarden EGNR	METAR	h	AW	Average			HO	D
Humberside EGNJ	METAR ¶	h	AW	Average	02/20 TDZ	OBS	HO	C
Inverness EGPE	METAR ¶	h	AW	Average	05/23 TDZ/END	AGIVIS	HO	D
Islay EGPI	METAR ¶	h	AW	Average			HO	D
Isle of Man EGNS	METAR	h/H	AW	Average			H24	A
Jersey EGJJ	METAR ¶	h	AW	Average	08/26 TDZ/MID/END	Biral FSM	HO+	A
Kirkwall EGPA	METAR ¶	h	AW	Average	09/27 TDZ	AGIVIS	HO+	A
Land's End EGHC	METAR	h	AW	Average			HO	D
Leeds Bradford EGNM	METAR	h	AW	Average	14 TDZ/MID/END 32 TDZ/MID/END	AGIVIS	H24	C
Liverpool EGGP	METAR #	h	AW	Average	09 TDZ/MID/END 27 TDZ/MID/END	Telvent Telvent	H24	A, C
London/City EGLC	METAR ‡	h	AW Windshear	Average	09 TDZ/MID/END 27 TDZ/MID/END	AGIVIS AGIVIS	HO+	C
London Gatwick EGKK	METAR #	h	AW	Average	08R TDZ/MID/END 26L TDZ/MID/END 08L TDZ/MID 26R TDZ/END	AGIVIS AGIVIS AGIVIS AGIVIS	H24	A
London Heathrow EGLL	METAR ‡*	h	AW Windshear	Average	09L TDZ/MID/END 09R TDZ/MID/END 27L TDZ/MID/END 27R TDZ/MID/END	AGIVIS AGIVIS AGIVIS AGIVIS	H24	A
London Luton EGGW	METAR ‡	h	AW	Average	07 TDZ/MID/END 25 TDZ/MID/END	AGIVIS AGIVIS	H24	C
London Stansted EGSS	METAR ‡	h	AW	Average	04 TDZ/MID/END 22 TDZ/MID/END	AGIVIS AGIVIS	H24	A
Londonderry/Eglinton EGAE	METAR	h	AW	Average	08/26 TDZ	OBS	HO	C
Lydd EGMD	METAR ¶#	h	AW	Average	03/21 TDZ	OBS	HO	C
Manchester EGCC	METAR ‡*	h	AW	Average	05 TDZ/MID/END 23 TDZ/MID/END	AGIVIS Biral FSM	H24	A, C
Newcastle EGNT	METAR #	h	AW	Average	07 TDZ/MID/END 25 TDZ/MID/END	AGIVIS Biral FSM	H24	C
Newquay EGHQ	METAR ¶	h	AW	Average	12/30 TDZ/MID/END	Campbell Scientific	HO	A
Norwich EGSH	METAR ¶*	h	AW	Average	09/27 TDZ/END	AGIVIS Biral FSM	HO	C
Oban EGEO	METAR	h	AW	Average			HO	D
Oxford EGTK	METAR	h	AW	Average	19 TDZ	Vaisala FSM	HO	C
Prestwick EGPK	METAR #	h	AW	Average	12/30 TDZ	OBS	H24	A
Scilly Isles/St Mary's EGHE	METAR	h	AW	Average			HO	A, C
Shoreham EGKA	METAR	h	AW	Average			HO	C
Southampton EGHI	METAR	h	AW	Average	02/20 TDZ	Biral FSM OBS	HO	C

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Table 3.5.3.2 —Aerodromes providing METARs

Aerodrome/ Location Indicator	Observations			Surface Wind	RVR		Obs Hours	Climatological Data
	Type	Freq	Warnings		Sites	Eqpt		
Southend EGMC	METAR	h	AW	Average	05/23 TDZ/END	Biral FSM	HO	C
St Athan EGSY	METAR ¶	h	AW	Average			HO	A
Stornoway EGPO	METAR ¶	h	AW	Average	18/36 TDZ	OBS	HO	A
Sumburgh EGPB	METAR ¶*	h	AW	Average	09/27 TDZ	OBS	HO+	A
Teesside International EGNV	METAR ¶#	h	AW	Average	05/23 TDZ	OBS	HO	C
Tiree EGPU	METAR ¶	h	AW	Average			HO	A
Warton EGNO	METAR	h	AW	Average	07/25 TDZ	OBS	HO	D
Wick EGPC	METAR ¶	h	AW	Average			HO	A

Table 3.5.3.3 — Explanation of Terms used in Table 3.5.3.2

Observation Type (column 2)	METAR	Aviation Routine Weather Report (actual)
	METAR ‡	AUTO METAR produced during aerodrome opening hours (AUTO METARs produced during aerodrome opening hours are overseen by a certificated Met Observer)
	METAR ¶	AUTO METAR produced outside aerodrome opening hours
	METAR #	AUTO METAR issued during agreed observer duty breaks overnight
	METAR *	Trend Forecast appended to METAR
Observation Frequency (column 3)	h	half-hourly
	h/H	half-hourly during operational hours/Hourly overnight
Observation Warnings (column 4)	AW	Aerodrome warning includes warning of Marked Temperature Inversion.
	Windshear	Aerodrome warning includes warning of windshear.
Surface Wind (column 5)		See paragraphs 3.1 and 3.2.
RVR (columns 6 and 7)	TDZ	touchdown zone
	MID	mid-point
	END	stop end
	OBS	human observer
	AGIVIS, Biral, CS, MET-1, Telvent & Vaisala	types of IRVR system
	FSM	Forward Scatter Meter
Observing hours (column 8)	HO	available to meet operational requirements (ie during aerodrome opening hours)
	HO+	more than HO but not H24
	H24	24 hours
Climatological data (column 9)	A, B, C, D	See Table 3.5.3.1
Note: *Table 3.5.3.2 lists only those aerodromes with accredited observers that produce METARs. Observations from other aerodromes not listed shall be regarded as unofficial.*		

3.7 The following aerodromes are certified to provide local meteorological observations:

Aerodrome / Location Indicator

Barra EGPR, Blackbushe EGLK, Chichester Goodwood EGHR, Coventry EGBE, Duxford EGSU, Elstree EGTR, Fairoaks EGTF, Kemble EGBP, Lerwick/Tingwall EGET, Llanbedr EGFD, London Heliport EGLW, Manchester Barton EGCB, Old Warden EGTH, Penzance Heliport EGHK, Redhill EGKR, Shobdon EGBS, Solent EGHF, Walney EGNL, Warton EGNO, Wellesbourne Mountford EGBW, West Wales/Aberporth EGFA, Wolverhampton/Halfpenny Green EGBO, Wycombe Air Park/Booker EGTB, Yeovil/ Westland EGHG

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3.8 **Aerodrome Weather Report Codes (Actuals)**

3.8.1 The content and format of an actual weather report is as shown in the following table:

Report Type	Location Identifier	Date/Time	Automatic Observation	Wind	Visibility	RVR	Present weather
METAR	EGZZ	231020Z	AUTO	31015G30KT 280V350	6000 2500SW	R24/P1500	SHRA

Cloud	Temp/ Dewpoint	QNH	Recent Weather	Windshear	Sea Surface Temperature and Sea State	TREND
FEW005 SCT010CB BKN025	10/03	Q0995	RETS	WS RWY 24	W07/S4	NOSIG

Note: *UK Aerodromes should not insert windshear groups in METAR since these are passed to pilots by the ATS unit.*

3.8.2 **Identifier**

3.8.2.1 The identifier has three components as shown below:

a) Report type

i. METAR - Aviation routine weather report. These are compiled half-hourly at fixed times while the aeronautical station is open;
ii. SPECI - Aviation selected special weather report. Special reports are prepared to supplement routine reports when improvements or deteriorations through certain criteria occur. However, by ICAO Regional Air Navigation agreement, they are not disseminated in Europe.

b) Location indicator

ICAO four-letter code letters (for UK aerodromes, see GEN 2.4)

c) Date/Time

The date and time of observation, specified as the day of the month, hours and minutes UTC, followed by the letter Z. Example: METAR EGSS 231020Z.

d) AUTO

At aerodromes where a Met observing system is installed that can be operated automatically, it may be possible for the system to generate fully automated weather reports in the form of AUTO METARs. Should an aerodrome wish to provide AUTO METARs then the permission of the CAA is required. Where a report contains fully automated observations with no human intervention, it will be indicated by the code word 'AUTO', inserted immediately before the wind group. Users are reminded that in particular reports of visibility, present weather and cloud from automated systems should be treated with caution due to the limitations of the sensors themselves, the spatial area sampled by the sensors and the associated algorithms employed by the observing system. AUTO METAR shall indicate the limitations of the observing equipment through the use of additional codes, where applicable, given in paragraph 3.8.16.

3.8.3 **Wind**

3.8.3.1 The mean wind direction is given in degrees True (three digits) rounded to the nearest 10 degrees, followed by the mean windspeed (two digits, exceptionally three). The mean is usually calculated from the ten minute period immediately preceding the time of observation. These are followed without a space by one of the abbreviations KT, KMH or MPS, to specify the unit used for reporting the windspeed.

Example: 31015KT

3.8.3.2 A further two or three digits preceded by a G gives the maximum gust speed in knots when it exceeds the mean speed by 10 KT or more

Example: 31015G30KT.

3.8.3.3 Calm is indicated by '00000', followed by the units abbreviation, and variable wind direction by the abbreviation 'VRB' followed by the speed and unit.

3.8.3.4 If, during the 10 minute period preceding the time of the observation, the total variation in wind direction is 60° or more, the observed two extreme directions between which the wind has varied will be given in clockwise order, separated by the indicator letter V but only when the mean speed is 3 KT or more.

Example: 31015G30KT 280V350.

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3.8.4 **Horizontal Visibility**

3.8.4.1 In the METAR, the visibility reported is the prevailing visibility and, under certain conditions, the minimum visibility. Prevailing visibility is the visibility value that is reached or exceeded within at least half the horizon circle or within at least half of the surface of the aerodrome. These areas could comprise contiguous or non-contiguous sectors.

3.8.4.2 If the visibility in one direction which is not the prevailing visibility, is less than 1500 M or less than 50% of the prevailing visibility, the lowest visibility observed should also be reported and its general direction in relation to the aerodrome indicated by reference to one of the eight points of the compass. If the lowest visibility is observed in more than one direction, then the most operationally significant direction should be reported. When the visibility is fluctuating rapidly and the prevailing visibility cannot be determined, only the lowest visibility should be reported, with no indication of direction.

Note: *There is no requirement to report the lowest visibility if it is 10 KM or more.*

3.8.4.3 Visibility is recorded in metres (M) rounded down to:

a) the nearest 50 M when the visibility is 800 M or less;
b) the nearest 100 M when the visibility is greater than 800 M but less than or equal to 5000 M, and expressed in kilometres (KM);
c) The nearest 1 kilometre when the visibility is greater than 5000 M.

Note: *The code 9999 indicates a visibility of 10 KM or more; 0000 a visibility of less than 50 M.*

3.8.5 **RVR**

3.8.5.1 An RVR group always includes the prefix R followed by the runway designator and a diagonal, in turn followed by the touch-down zone RVR in metres. If the RVR is assessed on two or more runways simultaneously, the RVR group will be repeated; parallel runways will be distinguished by appending, to the runway designator, L, C or R indicating the left, central or right parallel respectively.

Examples: R24L/1100 R24R/0750.

3.8.5.2 When the RVR is greater than the maximum value which can be assessed the group will be preceded by the letter indicator P followed by the highest value which can be assessed.

Example: R24/P1500.

3.8.5.3 When the RVR is below the minimum value which can be assessed, the RVR will be reported as M followed by the appropriate minimum value assessed.

Example: R24/M0050.

3.8.5.4 If it is possible to determine mean values of RVR, the mean value of RVR over the 10 minute period immediately preceding the observation will be reported; trends and significant variations may be reported as follows:

a) Trends. If RVR values during the 10 minute period preceding the observation show a distinct increasing or decreasing tendency, such that the mean during the first five minutes varies by 100 M or more from the mean during the second five minutes, this will be indicated by subscripts U or D for increasing or decreasing tendencies; otherwise, subscript N will indicate no distinct change during the period.

   Example: R24/1100D.

b) Significant Variations. When the RVR at a runway varies significantly such that, during the 10 minute period preceding the observation, the 1 minute mean extreme values vary from the 10 minute mean value by either more than 50 M or more than 20% of the 10 minute mean value (whichever is greater), the 1 minute mean minimum and maximum values will be given in that order, separated by V, instead of the 10 minute mean.

   Example: R24/0750V1100.

3.8.5.5 If the 10 minute period immediately preceding the observation includes a marked discontinuity in runway visual range values, only those values occurring after the discontinuity should be used to obtain mean values.

3.8.5.6 A complete RVR group may therefore be of the form:

Example: R24L/0750V1100U.

Note: *Until further notice, UK aerodromes will not be required to report RVR trends and significant variations. RVR is reported when the horizontal visibility or RVR is less than 1500 M. For multi-site RVR/IRVR systems, the value quoted is that for the Touch Down Zone (TDZ). If the RVR is assessed for two or more runways simultaneously, the value for each runway is given.*

3.8.6 **Weather**

3.8.6.1 Each weather group may consist of appropriate intensity indicators and letter abbreviations combined in groups of two to nine

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characters and drawn from the following table:

Table 3.5.3.4 — Significant Present and Forecast Weather Codes

Qualfier		Weather Phenomena		
Intensity or Proximity	**Descriptor**	**Precipitation**	**Obscuration**	**Other**
- Light	BC — Patches	DZ — Drizzle	BR — Mist	DS — Duststorm
	BL — Blowing	GR — Hail	DU — Widespread Dust	FC — Funnel Cloud(s) (tornado or water-spout)
Moderate				
+ Heavy ('Well developed' in the case of FC and PO)	DR — Drifting	GS — Small hail (<5 mm diameter) and/or snow pellets)	FG — Fog	PO — Dust/Sand Whirls (Dust Devils)
VC				
In the vicinity (not at the aerodrome but not further away than approx 8 KM from the aerodrome perimeter)	FZ — Freezing (Super-Cooled)		FU — Smoke	SQ — Squall
	MI — Shallow	PL — Ice-Pellets	HZ — Haze	SS — Sandstorm
	PR — Partial (covering part of aerodrome)	RA — Rain	SA — Sand	—
	SH — Shower(s)	SG — Snow Grains	VA — Volcanic Ash	—
	TS — Thunderstorm	SN —Snow	—	—

3.8.6.2 Mixture of precipitation types may be reported in combination as one group, but up to three separate groups may be inserted to indicate the presence of more than one independent weather type.

Examples: MIFG, VCSH, +SHRA, RASN, -DZ HZ.

Note 1: *BR, HZ, FU, DU and SA will not be reported when the visibility is greater than 5000 M.*

Note 2: *Some codes are shown that will not be used in UK METARs and TAFs but may be seen in continental reports and when flying in Europe.*

3.8.7 **Cloud**

3.8.7.1 A six character group will be given under normal circumstances. The first three to indicate cloud amount:

a) FEW to indicate 1 to 2 oktas;
b) SCT (scattered) to indicate 3 to 4 oktas;
c) BKN (broken) to indicate 5 to 7 oktas;
d) OVC (overcast) to indicate 8 oktas.

and the last three characters indicate the height of the base of the cloud layer in hundreds of feet above aerodrome level.

Example: FEW018.

3.8.7.2 Types of cloud other than significant convective clouds are not identified. Significant clouds are:

a) CB Cumulonimbus;
b) TCU Towering Cumulus.

Example:SCT018CB.

3.8.7.3 Reporting of layers or masses of cloud is made as follows:

a) First Group: Lowest individual layer of any amount;
b) Second Group: Next individual layer of more than 2 oktas;
c) Third Group: Next higher layer of more than 4 oktas;
d) Additional Group: Significant convective cloud if not already reported.

The cloud groups are given in ascending order of height.

Example: FEW005 SCT010 SCT018CB BKN025

3.8.7.4 When there is no cloud below 5000 FT or below the highest minimum sector altitude (whichever is the greater) and there is no towering cumulus or cumulonimbus, 'NSC' (no significant cloud) is reported. However, the amount, height of cloud base and cloud type of towering cumulus or cumulonimbus shall be reported, irrespective of the cloud base height.

3.8.7.5 Sky obscured is coded by VV followed by the vertical visibility in hundreds of feet. When the vertical visibility cannot be assessed

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the group will read VV///: (See GEN 1.7)

Example: VV003.

3.8.8 **CAVOK**

3.8.8.1 The visibility, RVR, weather and cloud groups are replaced by CAVOK when the following conditions exist:

a) Prevailing visibility is 10 KM or more;
b) No minimum visibility is reported
c) No cloud below 5000 FT or below the highest Minimum Sector Altitude, whichever is the greater.
d) No towering cumulus or cumulonimbus clouds.
e) No significant weather phenomena at or in the vicinity of aerodrome.

3.8.9 **Air Temperature/Dewpoint**

3.8.9.1 These are given in Degrees Celsius, M indicates a negative value.

Examples: 10/03, 01/M01.

If the dew point is missing, the temperature would be reported as 10///.

3.8.9.2 Temperatures are reported to the nearest whole degree Celsius, with observed values involving 0.5°C rounded up to the next higher degree Celsius, for example +2.5°C is rounded off to +3°C, -2.5°C is rounded off to -2°C.

3.8.10 **QNH**

3.8.10.1 QNH is rounded down to the next whole hectopascal and reported as a four digit group preceded by the letter indicator Q. If the value of QNH is less than 1000 hPa the first digit will be 0.

Example: Q0995.

3.8.10.2 Where reported in inches of mercury, the pressure is prefixed by 'A', and the pressure entered in hundredths of inches, viz with the decimal point omitted between the second and third figure.

Example: A3027

3.8.11 **Supplementary Information**

a) **Recent Weather**. Recent Weather will be operationally significant weather observed in the period since the previous observation (or in the last hour whichever period is the shorter), but not now. The appropriate present weather code will be used, preceded by the letter indicator RE; up to three groups may be inserted to indicate the former presence of more than one weather type.
b) **Windshear.** UK aerodromes will not insert windshear groups in the METAR, instead it is passed by the local ATS unit to flight crew via RTF.
c) **Sea surface temperature and state.** The sea surface temperature is preceded by the letter indicator W and given in Degrees Celsius, with M indicating a negative value. The sea state is a single numerical value, 0-9, preceded by the letter indicator S and decodes to give the height in metres of well-developed wind waves over the open sea. Sea surface temperature and state are not used in the UK.

Table 3.5.3.5 - State of the Sea

Code	Description	Height (M)
0	Calm (Glassy)	0
1	Calm (Rippled)	0 - 0.1
2	Smooth (Wavelets)	0.1 - 0.5
3	Slight	0.5 - 1.25
4	Moderate	1.25 - 2.5
5	Rough	2.5 - 4
6	Very Rough	4 - 6
7	High	6 - 9
8	Very High	9 - 14
9	Phenomenal	Over 14

Note 1: *These height values may be used by observers when reporting the total state of agitation of the sea resulting from various factors such as wind, swell, currents, angle between swell and wind etc.*
Note 2: *The exact bounding height shall be assigned for the lower code: eg a height of 4 M is coded as sea state 5.*

Example: Sea surface temperature of 13°C with a moderate sea state would be coded in the METAR as: W13 S4.

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3.8.12 **TREND**

3.8.12.1 For selected aerodromes, this is a forecast of significant changes in conditions during the two hours after the observation time:

a) Change Indicator: BECMG (becoming) or TEMPO (temporary), which may be followed by a time group (hours and minutes UTC) preceded by one of the letter indicators FM (from), TL (until), AT (at);
b) Weather: Standard codes are used. NOSIG replaces the trend group when no significant changes are forecast to occur during the trend forecast period.

Examples: BECMG FM1100 25035G50KT; TEMPO FM0630 TL0830 3000 SHRA.

3.8.13 **'RMK'**

3.8.13.1 The indicator 'RMK' (remark) denotes an optional section containing additional meteorological elements. It will be appended to METARs by national decision and should not be disseminated internationally. In the UK, the section will not be inserted without the prior agreement of the Met Authority.

3.8.14 **Missing Information**

3.8.14.1 Information that is missing in a METAR or SPECI may be replaced by diagonals.

3.8.15 **Examples of METAR:**

a) METAR EGGX 301220Z 14005KT 1200 0600E R12/1000N DZ BCFG VV/// 08/07 Q1004 NOSIG=
b) METAR EGLY 301220Z 24015KT 200V280 8000 -RA SCT010 BKN025 18/15 Q0983 TEMPO 3000 RA BKN008 OVC020=
c) METAR EGPZ 301220Z 30025G37KT 270V360 1200 0800NE +SHSNRAGS FEW005 SCT010 BKN020CB 03/M01 Q0999 RETS BECMG AT1300 9999 NSW SCT015 BKN100=

The above METAR for 1220 UTC on the 30th of the month, in plain language:

EGGX: Surface wind: mean 140 Deg True, 5 KT; Prevailing visibility 1200 M, minimum visibility 600 M to east; mean RVR 1000 M (at threshold Runway 12, no apparent tendency); moderate drizzle with fog patches ; Sky obscured, vertical visibility not available; dry bulb temperature Plus 8 C, dew point Plus 7 C; Aerodrome QNH 1004 hPa; Trend: no significant change expected next two hours;

EGLY: Surface wind: mean 240 Deg True, 15 KT; varying between 200 and 280 deg; Prevailing visibility 8 KM; Light rain; cloud 3-4 oktas base 1000 FT, 5-7 oktas 2500 FT; dry bulb: plus 18 C, dew point; plus 15 C; QNH 983 hPa; Trend: temporarily 3000 M in moderate rain with 5-7 oktas 800 FT, 8 oktas 2000 FT;

EGPZ: Surface wind: mean 300 Deg True, 25 KT; Gust 37 KT, varying between 270 and 360 deg; Prevailing visibility 1200 M, minimum visibility 800 M to northeast; heavy shower of snow, rain and small hail; 1-2 oktas base 500 FT, 3-4 oktas base 1000 FT, 5-7 oktas CB base 2000 FT; dry bulb: plus 3 C, dew point: minus 1 C; QNH 999 hPa; thunderstorm since previous report. Trend: improving at 1300 UTC to 10 KM or more, nil weather, 3- 4 oktas 1500 FT, 5-7 oktas 10000 FT.

3.8.16 **AUTO METAR coding**

3.8.16.1 Where the observation is generated by an automatic observing system without any human input, the code 'AUTO' shall be inserted between the date/time of the report group and the wind group. In an AUTO METAR or automated weather report on ATIS, the presence or absence of the phenomena may not have been verified by a human observer. Aircraft operators are therefore advised to exercise caution with respect to phenomena likely to affect their flight.

3.8.16.2 Where the observation is generated by an automatic observing system without any human input or supervision and the present weather cannot be detected due to unserviceable or missing present weather sensors, the lack of present weather information should be indicated by two slashes (//). If the present weather sensor is unable to determine the state or form of the precipitation, 'UP' (unidentified precipitation) or 'FZUP' (freezing unidentified precipitation), together with any intensity qualifiers, should be reported as appropriate. If the present weather sensor is serviceable but not detecting any present weather, then no present weather group shall be reported in the METAR.

3.8.16.3 Where the observation is generated by an automatic observing system and showers cannot be determined based upon a method that takes account of convective cloud, precipitation should not be characterised by SH.

3.8.16.4 Recent unidentified precipitation ('REUP') shall be reported if moderate or heavy unidentified precipitation has ceased or decreased in intensity since being reported in the last routine report or within the last hour, whichever is the shorter.

3.8.16.5 When the observation is generated by an automated observing system without human input or supervision the following coding may be seen related to cloud observations.

a) NNNhhh/// Cloud detected, but it is unknown whether it is a convective cloud type (ie TCU or CB).
b) ///////// Detection of cloud height & type not available.
c) NCD No Clouds Detected. No cloud of operational significance or convective cloud detected by the automated system
d) //////TCU Towering Cumulus detected, but no information on its height or cloud cover is available.
e) //////CB Cumulonimbus detected, but no information on its height or cloud cover is available.
f) VCTS Indicates lightning has been detected between 9-16 KM from the aerodrome reference point.

GEN 3.5 METEOROLOGICAL SERVICES (continued)

3.8.16.6 Examples of AUTO METAR coding:

a) METAR EGZZ 292220Z AUTO 29010KT 6000 // FEW010/// BKN025/// 17/12 Q0996=
b) METAR EGZZ 300450Z AUTO VRB02KT 3000 BR NCD 10/09 Q1002=
c) METAR EGZZ 301220Z AUTO 25015KT 9999 TS FEW010/// BKN025/// //////CB 18/12 Q1001 =

4 Types of Service

4.1 **Forecast Offices providing a service to Civil Aviation**

4.1.1 The designated forecast office(s) for principal aerodromes are given in AD 2.11 (Meteorological Information Provided), in the Aerodromes section of the AIP. Designated forecast offices operate H24.

4.1.2 Some Military and Government aerodromes provide a forecast and briefing service for Civil Aviation, but only for departures from those aerodromes.

4.2 **Pre-flight Briefing**

4.2.1 The primary method of meteorological briefing for flight crew in the UK is by self-briefing, using information and documentation routinely displayed in aerodrome briefing areas. English is the language used for all UK documentation and forecast clarification. The primary method of briefing does not require prior notification to a Forecast Office.

4.2.2 Where this primary method is not available, or is inadequate for the intended flight, Special Forecasts, as described at paragraph 5, may be provided.

4.2.3 A wide range of meteorological information is available on the world wide web for pre-flight planning. Flight Briefing Information from the Met Office is available at **http://www.metoffice.gov.uk/aviation**. However, users should be aware of the risks of use of the public Internet in this regard. This includes, but not limited to, a browsers' cache facility not providing the user with the very latest information; delays to, or irregular update of sites; or the receipt of falsified data purporting to have come from a legitimate provider. Users should ensure, wherever possible, that the data is up to date and consistent with the general weather situation.

4.2.4 When necessary, the personal advice of a forecaster, or other meteorological information, can be obtained from the appropriate forecast office. Pilots departing from Military or Government aerodromes may find an on-site Forecaster or Briefing Service available. **Forecaster advice or other information for safety related clarification/amplification will only be given on the understanding that full use has already been made of available meteorological briefing material. Forecaster clarification/ amplification of conditions en-route is not provided for flights departing from locations outside the UK**.

4.2.5 The Met Office operates a centralised telephone enquiry system. Pilots should state their requirements to the operator who may provide the necessary information or who will promptly transfer the call to the most suitable location.

Table 3.5.4.1 — Forecast Offices providing service to Civil Aviation

Forecast Office	Services Available	Telephone	Remarks
Met Office	A, B, C, D, E	0370-900 0100	Alternate 0330-135 0000.
Isle of Man Airport	A, B, C	01624-821641	Isle of Man services B and C available only to departures from within the Isle of Man.
Jersey Met	A, B, C	01534-448765	Jersey Met services B and C available only to departures from within the Channel Islands.

Key to Services Available:

A. – Provision of TAF, warnings and take-off data for the assigned principal aerodrome. Amplification/ clarification of these aerodrome forecasts and warnings only.

B. – Dictation of TAFs and METARs unobtainable from the automated services (usually limited to four aerodromes).

C. – Amplification/clarification of GAMET Regional/Area Forecasts and Metforms 214/215, and requests for Special Forecast.

D. – Dictation of GAMET amendments and Regional Forecasts.

E. – Amplification/clarification and amendments for Metforms 414/415 and EUR Charts

4.2.6 Forecast Offices and self-briefing facilities are under no obligation to prepare briefing documentation packages.

4.2.7 Meteorological observations and forecasts have certain expected tolerances of accuracy. Pilots interpreting observations and forecasts should be aware that information could vary within these tolerances, which are shown at paragraph 3.2 and Table 3.5.4.3. respectively. Additionally, observations and forecasts are not normally amended until certain criteria for change are exceeded. These are shown at paragraph 4.7.

4.2.8 The specific value of any of the elements given in a forecast shall be understood to be the most probable value which the element is likely to assume during the period of the forecast. Similarly, when the time occurrence or change of an element is given in a

forecast, this time shall be understood to be the most probable time.

4.2.9 The issue of a new forecast, such as an aerodrome forecast, shall be understood to automatically cancel any forecast of the same type previously issued for the same place and for the same period of validity or part thereof.

4.3 **UK Low Level Weather and Spot Wind Forecast Charts – Metform 215/214**

4.3.1 **The UK Low Level Forecast (Metform 215)** is a forecast of in-flight conditions from the surface to 10000 FT, covering the UK and near Continent. The form comprises:

a) A fixed time forecast weather chart and text box describing the expected visibility and weather, the cloud and the height of the zero degree isotherm in each separate area of weather highlighted on the chart. An outlook box describes the main weather developments in the 7-hour period beyond the end of the validity period of the forecast.
b) A separate outlook chart, available on the internet only, shows the expected position of the principle synoptic features, 1 hour after the end of the validity period of the forecast.

4.3.2 Information on Form. The following sub-paragraphs summarise the contents of Metform 216 (Explanatory Notes for Form 215), available in A4 or larger size on application to the address at paragraph 1.2.

4.3.2.1 **Main Forecast Weather Chart and Text**

a) The fixed time weather chart

i. The weather chart shows the forecast position, direction and speed of movement of surface fronts and pressure centres for the fixed time shown in the chart legend. The position of highs (H) and lows (L), with pressure values in hectopascals is shown by the symbols O and X. The direction and speed of movement (in knots) of fronts and other features is given by arrows and figures. Speeds of less than 5 knots are shown as 'SLOW'.
ii. Zones of distinct weather patterns are enclosed by continuous scalloped lines, each zone being identified by a letter within a rectangle. The forecast weather conditions (visibility, weather, cloud and height of the zero degree isotherm) during the period of validity, together with warnings and any remarks are given in the text to the right of the charts, each zone being dealt with separately and completely.

b) In the text

i. Surface visibility and weather

1. surface visibility is expressed in metres (M) or kilometres (KM), with the change over at 5000 M;
2. weather is described using the METAR code form; the full list of terms is available at paragraph 3.8.6.
3. warnings and the expected occurrence of icing and turbulence are highlighted, using standard ICAO symbolism and abbreviations where possible (see AIP GEN 2.2);

ii. Cloud

1. cloud amount is described using the METAR code form, where FEW indicates 1 to 2 oktas, SCT (scattered) indicates 3 to 4 oktas, BKN (broken) indicates 5 to 7 oktas and OVC (overcast) indicates 8 oktas.
2. cloud type is given using standard meteorological and ICAO abbreviations (see AIP GEN 2.2).
3. the height of the cloud base and top is given in the form 'height of cloud base / height of cloud top' with all heights in hundreds of feet (FT) above mean sea level:

iii. The height of the zero degree Celsius isotherm.

1. the height of the zero degree Celsius isotherm is given with all heights in hundreds of feet (FT) AMSL.
2. the height of any sub-zero layer below the main layer will also be given.

c) Outlook text

An outlook box describes the main weather developments in the 7-hour period beyond the end of the validity period of the forecast.

d) Notes

i. A forecast of thunderstorm (TS) and/or cumulonimbus (CB) implies hail and severe turbulence and icing;
ii. Hill fog will be included as a warning in the text whenever the base of any cloud is forecast to be at the same height or below the height of the highest ground in the zone. Hill fog implies visibility less than 200 M:
iii. The specific value of any elements given in a forecast shall be understood to the most probable value which the element is likely to assume during the period of the forecast.

4.3.2.2 Outlook Chart

4.3.2.2.1 A separate outlook chart, available on the internet only, shows the expected position of the principle synoptic features 1 hour after the end of the validity period of the forecast. No weather zones are given on the outlook chart but the pattern of surface isobars and frontal positions are shown.

4.3.3 **The UK Low Level Spot Wind Forecast (Metform 214)** is fixed time, and suitable for use for a period three hours before or after

GEN 3.5 METEOROLOGICAL SERVICES (continued)

the validity time.

a) The data provided is for Latitude/Longitude positions shown at the top of each box;
b) Wind Speed and temperature information is provided for a selected range of altitudes and are shown in thousands of feet above mean sea level and Degrees Celsius.

4.3.4 **Weather Forecast Chart Issues**

4.3.4.1 The date and time that each Metform 215/415 is issued by the Met Office will be shown at the bottom of the form. A summary of the times of issue and validity times of the F215 chart is given in the table below.

Time when F215 Forecast Chart becomes available	Front and Weather Zones forecast time	Period of validity
0330	1200	0800 – 1700
0930	1800	1400 – 2300
1530	0000	2000 – 0500
2130	0600	0200 – 1100

4.3.4.2 **Amendments**

a) Amendments may appear as complete re-issues of the Metform in which case the validity start time may be different from the routine issue.
b) An amended Metform 215 is indicated by the word AMENDED at the top of the form, and the element amended written in bold and underlined.

4.4 **Northwest Europe Low Level Weather and Spot Wind Forecast Charts - Metforms 415/414**

a) These charts are similar in format to Metforms 214/215 and extend the low-level flight forecast coverage more into continental Europe.
b) They are issued daily at the same times as Metform 214/215 and are valid for the same periods.
c) Amendments will appear as complete re-issues of the Metform in which case the validity start time may be different from the routine issue.

4.5 **European Medium / High Level Spot Wind / Temperature Forecast Chart - Metform 614**

a) This chart is similar in format to Metforms 214 and 414 but extends the coverage to most of Europe and western parts of the Mediterranean and North Africa.
b) It is available only from METFAX (09060 700 541) and provides a single sheet alternative to part of the area covered by the six standard EUR wind/temperature charts between FL 050 and FL 340 to accompany the EUR significant weather chart.

4.6 **Global upper-air wind and temperature data**

a) Global upper-air wind and temperature data, as well as data on upper-air humidity, tropopause heights and temperatures and maximum wind speed, direction and height are available in grid points in digital form, updated four times per day, from the address given in paragraph 1.2.
b) Specific chart areas representing part or all of the above data may be available from some suppliers.

Table 3.5.4.2 — Meteorological Forecast Charts — Coverage and Validity Times

Area	Chart	Levels	Coverage	Projection	Issue Times	Validity Times *1
UK (F215)	Weather *3	SFC - 10000 FT AMSL	British Isles and near continent		1530 *2 2130 *2 0330 0930	2000 to 0500 0200 to 1100 0800 to 1700 1400 to 2300
UK (F214)	Spot Wind / Temperature	24000, 18000, 10000, 5000, 2000, 1000 *4 FT AMSL	British Isles and near continent		1800 *2 0000 0600 1200	0000 0600 1200 1800
Europe (EUR)	Weather / Tropopause / Max wind	FL 100 - FL 450	N53 E065 N25 E034 N26 W018 N54 W050	Polar Stereographic	1100 *2 1700 *2 2300 *2 0500	0000 0600 1200 1800

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Table 3.5.4.2 — Meteorological Forecast Charts — Coverage and Validity Times

Area	Chart	Levels	Coverage	Projection	Issue Times	Validity Times *1
North Atlantic (NAT)	Weather / Tropopause / Max wind	FL 250 - FL 630	N24 E056 N02 W004 N03 W083 N28 W148	Polar Stereographic	1100 *2 1700 *2 2300 *2 0500	0000 0600 1200 1800
	Isobaric and frontal analysis (ASXX)	Surface	N37 E050 N68 W105 N34 W055 N20 E010	Polar Stereographic	0200 0800 1400 2000	0000 0600 1200 1800
	Isobaric and frontal analysis (FSXX)	Surface			0400 *2 1000 *2 1600 *2 2200 *2	0000 0600 1200 1800
Mid/Far East (MID)	Weather / Tropopause / Max wind	FL 250 - FL 630	N23 E150 S06 E102 S03 E033 N20 W020	Polar Stereographic	1100 *2 1700 *2 2300 *2 0500	0000 0600 1200 1800
Africa (AFI)	Weather / Tropopause / Max wind	FL 250 - FL 630	N70 W032 N70 E065 S38 W083 S38 W032	Mercator	1100 *2 1700 *2 2300 *2 0500	0000 0600 1200 1800
Caribbean/ South America (CARSAM)	Weather / Tropopause / Max wind	FL 250 - FL 630	N23 W113 N72 W003 N33 E059 S48 W052	Tilted Mercator	1100 *2 1700 *2 2300 *2 0500	0000 0600 1200 1800

Note 1: *(*1): Charts cover the period within 3 hours either side of the quoted fixed time, except 215 charts and surface isobaric charts, which are valid for the time specified.*
Note 2: *(*2):Previous day.*
Note 3: *(*3): This chart includes an outlook to the end of the next forecast period.*
Note 4: *(*4): Where terrain permits.*

Table 3.5.4.3 — Accuracy of Meteorological Forecasts

The percentages in this table are ICAO minimum standards.

Element	Operationally desirable accuracy of forecast	Minimum percentage of cases within range
Aerodrome Forecast (TAF)		
Wind direction	± 30°	80
Wind speed	± 5 KT up to 25 KT ± 20% above 25 KT	80
Visibility	± 200 M up to 700 M ± 30% between 700 M and 10 KM	80
Precipitation	Occurrence or non-occurrence	80
Cloud amount	± 2 okta	70
Cloud height	± 100 FT up to 400 FT ± 30% between 400 FT and 10000 FT	70
Air temperature (if forecast)	± 1°C	70
Landing Forecast (TREND)		
Wind direction	± 30°	90
Wind speed	± 5 KT up to 25 KT ± 20% above 25 KT	90
Visibility	± 200 M up to 700 M ± 30% between 700 M and 10 KM	90
Precipitation	Occurrence or non-occurrence	90
Cloud amount	± 2 okta	90
Cloud height	± 100 FT up to 400 FT ± 30% between 400 FT and 10000 FT	90
Take-Off Forecast		
Wind direction	± 30°	90
Wind speed	± 5 KT up to 25 KT ± 20% above 25 KT	90
Air Temperature	± 1°C	90
Pressure value (QNH)	± 1 hPa	90
Area, Flight and Route Forecast		

GEN 3.5 METEOROLOGICAL SERVICES (continued)

Table 3.5.4.3 — Accuracy of Meteorological Forecasts		
The percentages in this table are ICAO minimum standards.		
Element	**Operationally desirable accuracy of forecast**	**Minimum percentage of cases within range**
Upper air temperature	± 3°C (mean for 500 NM)	90
Upper wind	± 15 KT up to FL 250 ± 20 KT above FL 250 (modulus of vector difference for 500 NM	90
Significant en-route WX phenomena and cloud	Occurrence or non-occurrence Location: ± 60 NM Vertical extent: ± 2000 FT	80 70 70

4.7 **Aerodrome Forecast (TAF)**

4.7.1 The Aerodrome Forecast (TAF) is the primary method of providing the forecast weather information that pilots require about an airfield in an abbreviated format. The TAF consists of a concise statement of the mean or average meteorological conditions expected at an aerodrome or heliport during the specified period of validity.

4.7.2 UK civil TAFs are prepared to cover the notified hours of operation of those principal civil aerodromes that have accredited meteorological observers, who produce regular aerodrome weather reports. Being site-specific, to provide an aerodrome forecast in TAF form requires the forecaster to be confident in the knowledge of the weather conditions prevailing at that aerodrome. In the interests of flight safety, continuity of regular reports, and ideally special reports when significant changes occur (particularly if the deterioration or improvement has not been forecast or is mis-timed), are essential for the routine updates and an adequate amendment service to be provided by the forecast office.

4.7.3 Therefore, where an aerodrome is not open H24, the issue of a TAF will be delayed until at least two consecutive METARs have been received and accepted by the forecaster at the forecast office responsible for its preparation.

4.7.4 The METARs will be produced by an accredited observer and separated by an interval of not less than 20 minutes and not more than 1 hour. In practice, when METARs are prepared every 30 minutes, a TAF will be drafted by the forecaster once the first METAR has been seen, and when the second METAR is received 30 minutes later and confirms the prevailing weather over the aerodrome the forecaster will issue the TAF.

4.7.5 However, in the event that an automatic observing system located on the aerodrome regularly issues AUTO METARs containing information on wind speed and direction, visibility, cloud amount and height, present weather, pressure, temperature and dewpoint when the aerodrome is closed, the forecaster will, with agreement of the CAA Met Authority issue the TAF on the basis of the AUTO METAR.

4.7.6 If a gap of two hours between METAR reports occurs or if an element is missing from more than three consecutive reports then the TAF will be cancelled. The TAF will not be re-issued until two complete METARs have been received.

4.7.6.1 In practical terms this means that the TAF will be cancelled if:

a) More than 3 half hourly METARs are not received;
b) More than 3 half hourly METARs contain missing or erroneous data;
c) A second hourly METAR is not received.

4.7.7 Accredited observers at some H24 aerodromes take a duty break overnight, of maximum two hours duration. A supply of AUTO METARs will be provided during this period. If the duty observer has not recommenced observations after two hours (ie when more than 3 AUTO METARs are issued) the TAF may be cancelled.

4.7.8 If a TAF needs to be amended due to a deterioration or improvement that has not been forecast or is mis-timed, such amendments shall be issued within 15 minutes of receipt of the observation at the forecast office.

4.7.9 In order to reduce the number of TAF cancellations that are required to be issued when an aerodrome closes, the UK issues TAFs of duration 2-24 hours where appropriate.

Table 3.5.4.4 - List of TAFs Issued by Aerodrome			
Airport	**9 Hour TAF**	**24 Hour TAF**	**30 hour TAF**
Aberdeen/Dyce		•	
Alderney	•		
Belfast Aldergrove		•	
Belfast City	•		
Benbecula	•		
Biggin Hill	•		
Birmingham		•	
Blackpool	•		

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Table 3.5.4.4 - List of TAFs Issued by Aerodrome

Airport	9 Hour TAF	24 Hour TAF	30 hour TAF
Bournemouth	•		
Bristol		•	
Caernarfon	•		
Cambridge	•		
Campbeltown	•		
Cardiff		•	
Cranfield	•		
Dundee	•		
East Midlands		•	
Edinburgh		•	
Exeter	•		
Farnborough	•		
Glasgow		•	
Gloucestershire	•		
Guernsey	•		
Hawarden	•		
Humberside	•		
Inverness	•		
Islay	•		
Isle of Man	•		
Jersey	•		
Kirkwall	•		
Land's End	•		
Leeds Bradford		•	
Liverpool		•	
London/City	•		
London Gatwick			•
London Heathrow			•
London Luton		•	
London Stansted			•
Londonderry/Eglinton	•		
Lydd	•		
Manchester			•
Newcastle		•	
Newquay	•		
Norwich	•		
Oban	•		
Oxford	•		
Prestwick		•	
Scilly Isles	•		
Shoreham	•		
Southampton	•		
Southend	•		
St Athan	•		
Stornoway	•		
Sumburgh	•		
Teesside International	•		
Tiree	•		
Warton	•		
Wick	•		

Table 3.5.4.5 - TAF Validity and Issue Times

9 Hour TAF		
Start Time	End Time	Approx Issue Time
0000	0900	2300
0300	1200	0200
0600	1500	0500

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Table 3.5.4.5 - TAF Validity and Issue Times		
9 Hour TAF		
0900	1800	0800
1200	2100	1100
1500	2400	1400
1800	0300	1700
2100	0600	2000

24 Hour TAF		
Start Time	End Time	Approx Issue Time
0000	2400	2300
0600	0600	0500
1200	1200	1100
1800	1800	1700

30 Hour TAF		
Start Time	End Time (Next Day)	Approx Issue Time
0000	0600	2300
0600	1200	0500
1200	1800	1100
1800	2400	1700

4.8 **Aerodrome Forecast (TAF) Codes**

4.8.1 TAFs describe the forecast prevailing conditions at an aerodrome and usually cover a period of 9, 24 or 30 hours. TAFs valid for 9 hours are updated and re-issued every 3 hours and those valid for more than 12 hours, every 6 hours. Amendments are issued as and when necessary. TAFs are issued separately from the METAR or SPECI and do not refer to any specific report; however, many of the METAR groups are also used in TAFs and significant differences are detailed in paragraph 4.9.

4.8.2 The content and format of a TAF is as in the following table:

Report Type	Location Identifier	Date/Time of Origin	Validity Time	Wind	Visibility	Weather
TAF	EGZZ	130505Z	1306/1315	31015KT	8000	-SHRA

Cloud	Variant	Validity Times
FEW005 SCT018CB BKN025	TEMPO	1311/1315

Visibility	Weather	Cloud	Probability	Validity Time	Weather
4000	+SHRA	BKN010CB	PROB30	1312/1315	TSRA

4.8.2.1 Example of TAF

a) 9 hour TAF:

TAF EGGY 162005Z 1621/1706 13018KT 9999 BKN012 BECMG 1623/1702 FEW020 BECMG 1704/1706 3000 BR BKN007=

The validity group should be read as 2100 UTC on the 16th of the month to 0600 UTC on the 17th of the month. The first BECMG group should be read as 2300 UTC on the 16th of the month to 0200 UTC on the 17th of the month. The second BECMG group should be read as 0400 UTC on the 17th of the month to 0600 UTC on the 17th of the month.

b) 24 hour TAF:

Example 24 Hour TAF illustrating the use of the FM group, as used regularly by some states to indicate a change to alternative conditions, from a specific time:

TAF KGGY 160505Z 1606/1706 13018KT 9999 BKN020 TEMPO 1608/1612 17025G45KT 3000 TSRA BKN010CB FM161230 21015KT TEMPO 1703/1706 4000 BR =

The example above shows 'FM161230', which should be read as from 1230 UTC on the 16th of the month.

c) 30 hour TAF:

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TAF EGGY 160505Z 1606/1712 13018KT 9999 BKN020 TEMPO 1608/1612 17025G45KT 3000 TSRA BKN008CB BECMG 1612/1614 20015KT FEW020 TEMPO 1703/1706 4000 BR TEMPO 1709/1712 BKN012=

The validity group should be read as 0600 UTC on the 16th of the month to 1200 UTC on the 17th of the month. The first TEMPO group should be read as from 0800 UTC on the 16th of the month to 1200 UTC on the 16th of the month. The BECMG group should be read as 1200 UTC on the 16th of the month to 1400 UTC on the 16th of the month. The last TEMPO should be read as 0900 UTC on the 17th of the month to 1200 UTC on the 17th of the month.

4.9 **Differences from the METAR**

a) **Identifier**. In the validity period, the first two digits indicate the day on which the period begins, the next two digits indicate the time of commencement of the forecast in whole hours UTC and the last two digits are the time of ending of the forecast in whole hours.

b) **Wind**. In the forecast of the surface wind, the expected prevailing direction will be given. When it is not possible to forecast a prevailing surface wind direction due to its expected variability, for example, during light wind conditions (3 KTS or less) or thunderstorms, the forecast wind direction will be indicated by the use of the abbreviation 'VRB'.

c) **Horizontal Visibility**. As with the METAR code, except that only one value (the prevailing visibility) will be forecast. Visibility is reported in steps detailed in para 3.8.4.3.

d) **Weather**. If no significant weather is expected the group is omitted. However, after a change group, if the weather ceases to be significant, the abbreviation NSW is used for No Significant Weather.

e) **Cloud**. When no cumulonimbus, towering cumulus or clouds below 5000 FT or below the highest minimum sector altitude, whichever is the greater, are forecast and CAVOK is not appropriate, then NSC (No Significant Cloud) is used. Only CB and TCU clouds will be specified.

f) **Significant Changes**. The abbreviation FM followed by the date and time to the nearest hour and minute UTC is used to indicate the beginning of a self contained part in a forecast. All conditions given before this group are superseded by the conditions indicated after the group.

Example: FM161220 27017KT 4000 BKN010.

The change indicator BECMG followed by an eight figure date and time group, indicates an expected permanent change in the forecast meteorological conditions, at either a regular or irregular rate, occurring at an unspecified time within the period. The time period should not normally exceed 2 hours but in any case should not exceed 4 hours.

Example: BECMG 1721/1724 1500 BR

The change indicator TEMPO followed by a eight figure date and time group indicates a period of temporary fluctuations to the forecast meteorological conditions which may occur at any time during the period given. The conditions following these groups are expected to last less than one hour in each instance and in aggregate less than half the period indicated.

Example: TEMPO 0911/0916 4000 +SHRA BKN010CB.

g) **Probability**. The probability of occurrence happening will be given as a percentage, although only 30% and 40% will be used. The abbreviation PROB is used to introduce the group, followed by a time group, or an indicator and a time group.

Examples:

i. PROB30 1205/1207 0800 FG BKN004;
ii. PROB40 TEMPO 1214/1216 TSRA.

h) **Amendments**. When a TAF requires amendment, the amended forecast shall be indicated by inserting AMD after TAF in the identifier and this new forecast covers the remaining validity period of the original TAF.

Example: TAF AMD EGZZ 130820Z 1308/1316 21007KT 9999 BKN020 BECMG 1309/1312 4000 RADZ BKN008=

Any further amendments to a TAF that has already been amended will result in the same 'TAF AMD' coding being used; however, the date and time of origin will be updated

i) **Corrections**. When a METAR or TAF requires correction, the correction shall be indicated by inserting COR after TAF or METAR in the identifier.

Example:

Original: TAF EGZZ 140905Z 1409/1418 27012KT 4000 RUDZ BKN012 TEMPO 1410/1419 BKN008=

Update: TAF COR EGZZ 140918Z 1409/1418 27012KT 4000 RADZ BKN012 TEMPO 1410/1419 BKN008=

Note: *A correction will be issued only to correct an obvious typographical error. However a TAF amendment shall be issued instead whenever such a change would result in the meteorological conditions forecast being better or worse than previously stated, for example, 3000 RADZ instead of 4000 RADZ.*

j) **Cancellations**. Where the forecaster has cancelled a TAF, for example when routine METARs are not being made available the abbreviation CNL will be used.

Example: TAF AMD EGZZ 101030Z 1009/1018 CNL=

k) **Other Groups**. Three further TAF groups are not used for civil aerodromes in the UK but are shown here to assist in decoding overseas and UK military TAF.

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Forecast Temperature	TXaa/ggZ TNbb/hhZ
aa	Maximum temperature preceded by the letter indicators TX and given in Degrees Celsius, with M indicating a negative value.
gg	Time of maximum temperature, in UTC.
bb	Minimum temperature preceded by the letter indicators TN and given in Degrees Celsius, with M indicating a negative value.
hh	Time of minimum temperature, in UTC.

Example: TX25/13Z TN09/05Z

i.

Airframe Ice Accretion 6 Ic hhh tL

6 Group Indicator

I_c Type of airframe ice accretion:

- 0 none
- 1 light
- 2 light in cloud
- 3 light in precipitation
- 4 moderate
- 5 moderate in cloud
- 6 moderate in precipitation
- 7 severe
- 8 severe in cloud
- 9 severe in precipitation

hhh Height above ground level of lowest icing level (hundreds of feet)

t_L Thickness of icing layer:

- 0 up to top of clouds
- 1-9 thickness in thousands of feet

Example of an icing forecast: 650104.

This decodes as moderate icing potential is expected in clouds (code 5) from 1000 FT (code 010 in hundreds of feet) to 5000 FT AGL (4000 FT thickness as denoted by the ending ‘4’)

ii.

Turbulence 5 B hhh tL

- 0 none
- 1 light
- 2 moderate in clear air, infrequent
- 3 moderate in clear air, frequent
- 4 moderate in cloud, infrequent
- 5 moderate in cloud, frequent
- 6 severe in clear air, infrequent
- 7 severe in clear air, frequent
- 8 severe in cloud, infrequent
- 9 severe in cloud, frequent

hhh Height above ground level of lowest level of turbulence (hundreds of feet)

t_L Thickness of turbulent layer:

- 0 up to top of clouds
- 1-9 thickness in thousands of feet

Example of a turbulence forecast: 530804.

This decodes as frequent moderate turbulence is expected in clear air (code 3 from the table) and that the turbulence will extend from 8000 FT to 12000 FT AGL. As with the icing forecast above, if a layer of turbulence is forecast to exceed 9000 FT in thickness, a second group would be required.

4.10 **Reports in Abbreviated Plain Language**

4.10.1 Some reports may be disseminated in abbreviated plain language. These will use:

a) Standard ICAO abbreviations and
b) numerical values of a self explanatory nature.

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The abbreviations referred to under (a) are contained in the Procedures for Air Navigation Services - ICAO Abbreviations and Codes (ICAO Doc 8400).

4.11 **Criteria for Special Meteorological Reports and Forecasts**

4.11.1 The following are the criteria for the issue of Special Aerodrome Meteorological Reports, TRENDS, TAF Variants/Amendments and Amended Route/Area Forecasts:

a) **Special Report**

i. **Surface Wind**: Issued only when no serviceable wind indicator in ATC; criteria to be agreed locally, based on changes of operational significance at aerodrome; for example:

1. A change in mean direction of 60° or more, mean speed before or after change being 10 KT or more; and/or a change of 30°, the speed 20 KT or more;
2. a change in mean speed of 10 KT or more;
3. a change in gust speed of 10 KT or more, the mean speed before or after the change being 15 KT or more.

ii. **Visibility:**

1. A change in the prevailing visibility from one of the following ranges to another:

   10 KM or more

   5000 M to 9 KM

   3000 M to 4900 M

   2000 M to 2900 M

   1500 M to 1900 M

   800 M to 1400 M

   750 M or less

2. At the onset or cessation of the requirement to report minimum visibility ie. when the minimum visibility in one or more directions is less than 50% of the prevailing visibility.
3. If the minimum visibility is being reported, when the minimum visibility changes from one of the ranges, given in (1) above, to another.
4. Additional change groups of 100 M or less, 150 to 300 M, 350 to 550 M and 600 to 750 M are used where an RVR is not available, either permanently or during temporary unserviceablilty. These criteria will apply by local arrangement.
5. Additional change groups of 3000 to 3900 M and 4000 to 4900 M apply at Aberdeen/Dyce airport.

iii. **Runway Visual Range (RVR)**:

1. A change from one of the following ranges to another:

   800 M or more

   550 M to 750 M

   300 M to 500 M

   275 M to 175 M

   175 M to 50 M

   50 M or less

2. Note that special reports for RVR are only made by local arrangement.
3. See para 3.1.4.2 for reporting RVR minimum and maximum values.

iv. **Weather** and Recent Weather:

1. The onset, cessation or change in intensity of any of the following weather phenomena or combinations:

   -- Freezing rain or freezing drizzle of any intensity;

   -- Freezing fog;

   -- Moderate or heavy precipitation (including showers);

   -- Thunderstorm (with or without precipitation);

   -- Squall, funnel cloud;

   -- Low drifting or blowing: snow, sand or dust.

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2. In local routine reports and local special reports when reported by a semi-automatic observing system, recent weather phenomena should be reported, up to a maximum of three groups, in the supplementary information. The following recent weather information shall be reported:

    1. freezing precipitation;
    2. moderate or heavy precipitation, including showers;
    3. blowing snow;
    4. dust storm, sandstorm;
    5. thunderstorm;
    6. funnel cloud, tornado or water spout; and
    7. volcanic ash.

v. **Cloud**:

1. When the base of the lowest cloud of over 4 oktas (BKN or OVC) changes from one of the following ranges to another:

    2000 FT or more

    1500 FT to 1900 FT

    1000 FT to 1400 FT

    700 FT to 900 FT

    500 FT to 600 FT

    300 FT to 400 FT

    200 FT

    100 FT

    Less than 100 FT*

2. *This includes state of sky obscured. ANSPs should also review whether there is a requirement to report the height of cloud base in steps of 50 FT up to and including 300 FT in local routine reports and local special reports.
3. When the amount of cloud below 1500 FT changes from 4 oktas or less (nil, FEW, SCT) to more than 4 oktas (BKN or OVC), and vice versa.

vi. **Temperature:** When the air temperature changes by 2 degrees or more, from that given in the last report.
vii. **Pressure:** When the 'as read' pressure changes by 1.0 hPa or more since the last report.
viii. **Severe/Icing/Turbulence:** After confirmation by the duty forecaster, pilot reports of severe icing or severe turbulence, either on the approach to, or climb out from, the aerodrome.

b) **Trend**

i. **Surface Wind**

1. A change in mean direction of 30° or more, the mean speed before or after the change being 20 KT or more; a change in mean direction of 60° or more, the mean speed before or after the change being 10 KT or more.
2. A change in mean speed of 10 KT or more.

ii. **Surface Visibility.**

1. A change in the prevailing visibility from one of the following ranges to another:

    5000 M or more

    3000 M to 4900 M

    1500 M to 2900 M

    800 M to 1400 M

    600 M to 750 M

    350 M to 550 M

    150 M to 300 M

    100 M or less

iii. **Weather**

1. Onset, cessation or change in intensity of:

    – freezing precipitation;

    – moderate or heavy: precipitation, including showers;

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– freezing fog and freezing precipitation;

– low drifting: sand, dust or snow;

– blowing: sand, dust or snow;

– thunderstorm;

– squall, funnel cloud, tornado or waterspout;

– other phenomena if associated with a significant change in visibility or cloud, whatever the intensity.

iv. **Cloud**

1. When the base of the lowest cloud of over 4 oktas (BKN or OVC) changes from one of the following ranges to another:

   1500 FT or more

   1000 FT to 1400 FT

   500 FT to 900 FT

   300 FT to 400 FT

   200 FT

   100 FT

   Less than 100 FT*

2. *This includes state of sky obscured.
3. Additional change groups of 500 to 600 feet and 700 to 900 feet apply at aerodromes serving oil rig helicopter operations where a TREND service is provided; Aberdeen and Norwich.
4. When the amount of the lowest cloud below 1500 FT changes from half or less (nil, FEW or SCT) to more than half (BKN or OVC) and vice versa. A change to no cloud below 5000 FT and no CB or TCU should be shown as No Significant Cloud - NSC, unless CAVOK applies.

c) **TAF Variants/Amendments**

i. **Surface Wind**

1. A change in mean direction of 30° or more, the mean speed before or after the change being 20 KT or more; a change in mean direction of 60°, the mean speed before or after the change being 10 KT or more
2. a change in mean speed of 10 KT or more.
3. a change in gust speed of 10 KT or more, the mean speed before or after the change being 15 KT or more.

ii. **Surface Visibility**

1. A change in the prevailing visibility from one of the following ranges to another:

   10 KM or more

   5000 M to 9 KM

   1500 M to 4900 M

   800 M to 1400 M

   350 M to 750 M

   300 M or less

2. Additional change groups of 1500 M to 2900 M and 3000 M to 4900 M as well as 5000 M to 6 KM and 7 to 9 KM apply at aerodromes serving oil rig helicopter operations; Aberdeen, Benbecula, Blackpool, Humberside, Inverness, Kirkwall, Liverpool, Norwich, Sumburgh and Wick.

iii. **Weather**

1. Onset, cessation or change in intensity of:

   freezing precipitation;

   freezing fog;

   moderate or heavy: precipitation, including showers;

   low drifting: sand, dust or snow;

   blowing: sand, dust or snow;

   thunderstorm;

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squall, funnel cloud, tornado or waterspout;

other phenomena if associated with a significant change in visibility or cloud, whatever the intensity.

CAVOK conditions.

iv. **Cloud**

1. When the base of the lowest cloud of over 4 oktas (BKN or OVC) changes from one of the following ranges to another:

   5000 FT or more

   1500 FT to 4900 FT

   1000 FT to 1400 FT

   500 FT to 900 FT

   200 FT to 400 FT

   100 FT or less*

2. *This includes state of sky obscured.
3. Additional change groups of 500 FT to 600 FT and 700 FT to 900 FT apply at aerodromes serving oil rig helicopter operations; Aberdeen, Benbecula, Blackpool, Humberside, Inverness, Kirkwall, Liverpool, Norwich, Sumburgh and Wick.
4. When the amount of the lowest cloud below 1500 FT changes from half or less (nil, FEW or SCT) to more than half (BKN or OVC) and vice versa. A change to no cloud below 5000 FT and no CB or TCU should be shown as No Significant Cloud - NSC, unless CAVOK applies.

d) **Amended Route/Area Forecast (Advisory Criteria)**

i. 1000 FT, 3000 FT and 6000 FT Wind. A change in direction of 30° or more, the speed before and/or after the change being at least 30 KT. A change of speed of 20 KT or more.
ii. Temperature/Dew Point. 5°C or more.
iii. Cloud Amount. Changes in the general forecast lowest cloud base below 1500 FT from 4 oktas or less to more than 4 oktas, or more than 4 oktas to 4 oktas or less.

Element		Original Forecast	Revised Opinion
iv	Surface visibility (general visibility)	8 KM or more 5000 M to 8 KM 3700 M to 5000 M 2500 M to 3700 M 1600 M to 2500 M 800 M to 1600 M 0 M to 800 M	Less than 8 KM Less than 5000 M or more than 8 KM Less than 3700 M or more than 5 KM Less than 2500 M or more than 3700 M Less than 1600 M or more than 2500 M Less than 800 M or more than 1600 M Less than 800 M
v	Weather phenomena TS, SQ, GR, SA, RASN, SN, FZFG, FZRA, FZDZ	Not included Included	Now expected Not now expected
vi	Cloud Height (general forecast lowest cloud base)	2500 FT or more 1500 FT to 2500 FT 700 FT to 1500 FT 500 FT to 700 FT 300 FT to 500 FT 200 FT to 300 FT Surface to 200 FT	Less than 2500 FT Less than 1500 FT or more than 2500 FT Less than 700 FT or more than 1500 FT Less than 500 FT or more than 700 FT Less than 300 FT or more than 500 FT Less than 200 FT or more than 300 FT Less than 200 FT
vii	Turbulence	Nil Light Moderate Severe	Moderate or severe Severe Nil Nil or light
viii	Zero degree Celsius isotherm	Below 5000 FT Above 5000 FT	Changes of 1000 FT or more Changes of ±25% or 2000 FT, whichever is smaller.
ix	Airframe icing	Nil Light Moderate Severe	Moderate or severe Severe Nil Nil or light
x	Area boundaries, significant fronts and tropical disturbances	Not included Included	Now expected Not now expected or ± 60 NM different from forecast.

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4.12 Aeronautical Meteorological Observer Training

4.12.1 **Accredited Aerodrome Meteorological Observer Training**

4.12.1.1 At most aerodromes, there is usually a requirement to provide weather reports for aircraft taking-off and landing and flying in the area. An observer does not need accreditation to give an opinion on the latest meteorological conditions but these are not regarded as 'official' for air navigation purposes, and the observer is required to have a basic competency in assessing conditions and reading instrumentation. However, a METAR issued from a UK aerodrome and disseminated beyond the aerodrome must be prepared by an accredited meteorological observer.

4.12.2 **Accredited Aerodrome Meteorological Observer Training Courses**

4.12.2.1 Training for aerodrome personnel to enable them to gain accreditation in meteorological observing is provided by CAA approved training organisations.

4.12.2.2 The duration of each Full Met Observer course is two weeks. The first week covers theory training followed by a week of practical experience (including night-time observations) under the supervision of a professional meteorological trainer.

4.12.2.3 A 5 day course is available for staff at aerodromes using a semi-automatic observing system, this course develops the skills necessary to observe, report and encode the 'visual' elements of the METAR to a standard that meets CAA requirements.

4.12.2.4 Further details and costs on Full and Restricted Observer courses are available from approved training organisations. However, it is essential that those nominated for courses have a basic knowledge of the aeronautical weather code, sufficient at least to decode a METAR without difficulty, prior to attending the course. It is also desirable to have had experience of an Air Traffic Services environment.

4.12.2.5 Trainees successfully completing a course are awarded an Aeronautical Met Observing Certificate for the production of aerodrome weather reports that meet the requirements of ICAO Annex 3. Restricted certificates are for use solely at aerodromes similarly equipped to the training site at which the trainee gained their certification.

4.12.3 **Other Aviation Meteorological Observer Training**

4.12.3.1 Refresher and Met Focal Point training is aimed at qualified observers who have not carried out the making of official Met reports for some considerable time, or who are designated aerodrome Met Focal Points, and Offshore Observer Training which is designed to enable observers make accurate weather reports for offshore helicopter operations.

4.12.4 **Approved Aeronautical Meteorological Observer Training Organisations**

4.12.4.1 Applications for Full, Restricted and Offshore Observer training courses should be made to one of the CAA approved training organisations detailed below. Applications can only be accepted from aerodrome sponsors (e.g. ATS Managers) prepared to accept responsibility for trainees.

4.12.4.2 Met Office Aeronautical Meteorological Observer training courses.

Post: Account Manager Aviation Observer Courses, Met Office College, Met Office, Fitzroy Road, Exeter, Devon, EX1 3PB
Email: aviationtraining@metoffice.gov.uk

4.12.4.3 StormGeo Aeronautical Meteorological Observer training courses Training Co-ordinator, StormGeo.

Phone: +44 (0)1224-766581
Email: training@stormgeo.com

5 Notification Required from Operators

5.1 Changes to Meteorological Services

5.1.1 Where a change to the MET information being provided is required by an operator, they should notify the Meteorological Authority (contact details are provided in paragraph 1) in advance. The Meteorological Authority will review the request for the change and provide a response within an agreed time.

5.2 **Special Forecasts and Specialised Information**

5.2.1 For departures where the standard pre-flight meteorological self-briefing material cannot be obtained or is inadequate for the intended flight, a Special Forecast may be issued on request to the appropriate Forecast Office for a specific period for a designated route, or an area which includes the route. Normally, a Special Flight Forecast will be supplied from the last UK departure point to the first transit aerodrome outside the coverage of standard documentation, at which point pilots should re-brief. However, by prior arrangement, a forecast may be prepared for other legs, provided initial ETD to final ETA does not exceed 6 hours and no stops longer than 60 minutes are planned. The usual method of issuing Special Flight Forecasts is by AFS or email to the aerodrome of departure, but if the Flight Briefing Unit is not so equipped or will not be open, pilots may telephone the

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Forecasting Office for a dictation of the forecast. Similarly, Aerodrome Forecasts and reports for the destination and up to four alternates will be provided with the forecast, if not otherwise available.

5.3 **Prior Notification for Special Forecasts**

5.3.1 Forecast Offices normally require prior notification for Special Forecasts as follows:

a) For flights up to 500 NM, at least two hours before the time of collection;
b) for flights of over 500 NM, at least four hours before the time of collection.

5.3.1.1 Request for Special Forecasts must include details of the route, the period of the flight and where appropriate the ETD/ETA of each leg, the height to be flown and the time at which the forecast is required. Ideally a forecast should be collected no earlier than 90 minutes before departure.

5.3.2 It is in the interest of all concerned that the maximum possible period of notice is given. The Forecast Office will give priority to emergencies, in-flight forecast and to forecast requirements which have been properly notified. Other requests could be delayed at busy periods and might not comprise full forecasts. A Forecast collected a long time in advance of departure will be less specific and might be less accurate than one prepared nearer departure time.

5.3.3 Forecast Offices providing Special Forecasts are shown at Table 3.5.4.1. They are not provided for flights inbound to the UK.

5.3.4 Take-off forecasts containing information on expected conditions over the runway complex in respect of surface wind, temperature and pressure can be made available from Forecast Offices. Requests for the routine provision of these forecasts should be made to the Meteorological Authority (contact details are provided in paragraph 1.1). For ad hoc requests prior notification is not normally required, requests should be made directly to the Met Office, three hours before the expected time of departure.

5.3.5 Meteorological information for specialised aviation use, as defined below, is not included in the GAMET service or given as Special Forecasts but arrangements can be made for its provision on prior request:

a) To provide meteorological information for special aviation events for which routine forecasts are not adequate;
b) to provide helicopter operators in off-shore areas with forecast winds and temperatures at 1000 FT AMSL, information on airframe icing, and sea state and temperature.

5.3.6 Appropriate forecasts for (a) above will be made available up to twice in any 24 hour period. For (a), the initial request should be made to the nearest forecasting office designated as providing service 'C' at Table 3.5.4.1 at least 2 hours in advance of the forecast being required. For (b), application must be made to the Meteorological Authority for approval (see paragraph 1.1), giving at least 6 weeks' notice of the requirement. The application must specify the nature of the aviation activity, the location(s) involved, the meteorological information required and the associated time periods. If appropriate an AFTN address or Fax number should be included. Applicants will be advised of the time at which the information will be available and the means of delivery.

5.4 **Additional Meteorological Services**

5.4.1 When specialist, non-standard, aviation meteorological services additional to those given above are required (eg forecaster briefings for aerial photography, test flying, crop spraying and for outlooks for over a day ahead), they may be obtained on a repayment basis by prior arrangement with the Met Office. Enquiries should be directed to the Met Office address at paragraph 1. 2, or to one of the Forecast Offices listed at Table 3.5.4.1

6 Aircraft Reports

6.1 **Routine Aircraft Observations**

6.1.1 Routine Observations in the Scottish FIR/UIR, the London FIR/UIR or the Shanwick Oceanic FIR are only required to be made by aircraft equipped with air ground data link.

6.2 **Special Aircraft Observations**

6.2.1 Special aircraft observations are required to be issued by aircraft as special air-reports in the Scottish FIR/UIR, the London FIR/ UIR or the Shanwick Oceanic FIR whenever any of the following conditions are encountered or observed:

a) moderate icing (MOD ICE) or severe icing (SEV ICE); or
b) moderate turbulence (MOD TURB) or severe turbulence (SEV TURB); or
c) severe mountain wave (SEV MTW); or
d) thunderstorms with or without hail (that are obscured, embedded, widespread or in squall lines) (TSGR or TS);or
e) if volcanic ash cloud is observed or encountered, or if pre-eruption volcanic activity or a volcanic eruption is observed to assist other Users, ATS Providers and the Volcanic Ash Advisory Centre (VAAC);

6.2.2 Special aircraft observations may be reported when other meteorological conditions are encountered which, in the opinion of the pilot-in-command, might affect the safety or markedly affect the efficiency of other aircraft operations, for example, other en-route weather phenomena specified for SIGMET messages, or adverse conditions during the climb-out or approach not previously forecast or reported to the pilot-in-command.

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6.3 Turbulence and Icing Reporting Criteria

6.3.1 Turbulence (TURB)

6.3.1.1 While MOD and SEV TURB are to be reported, TURB remains an important operational factor at all levels but particularly above FL 150 therefore all pilots encountering TURB are requested to report this to the ATS Unit with whom they are in radio contact. High level turbulence (normally above FL 150 not associated with cumuliform cloud, including thunderstorms) should be reported as TURB, preceded by the appropriate intensity or preceded by Light or Moderate Chop.

Table 3.5.6.1 — TURB and other Turbulence Criteria Table

Incidence	Occasional — less than 1/3 of the time	Intermittent — 1/3 to 2/3 Continuous — more than 2/3
Intensity	**Aircraft Reaction (transport size aircraft)**	**Reaction Inside Aircraft**
Light	Turbulence that momentarily causes slight, erratic changes in altitude and/or attitude (pitch, roll, yaw) IAS fluctuates 5 - 15 KT. (<0.5 g at the aircraft's centre of gravity) Report as ' **Light Turbulence** '. or; turbulence that causes slight, rapid and somewhat rhythmic bumpiness without appreciable changes in altitude or attitude. No IAS fluctuations. Report as ' **Light Chop** '	Occupants may feel a slight strain against seat belts or shoulder straps. Unsecured objects may be displaced slightly. Food service may be conducted and little or no difficulty is encountered in walking.
Moderate	Turbulence that is similar to Light Turbulence but of greater intensity. Changes in altitude and/or attitude occur but the aircraft remains in positive control at all times. IAS fluctuates 15 - 25 KT. (0.5-1.0g at the aircraft's centre of gravity). Report as ' **Moderate Turbulence** '. or; turbulence that is similar to Light Chop but of greater intensity. It causes rapid bumps or jolts without appreciable changes in altitude or attitude. IAS may fluctuate slightly. Report as ' **Moderate Chop** '.	Occupants feel definite strains against seat belts or shoulder straps. Unsecured objects are dislodged. Food service and walking are difficult.
Severe	Turbulence that causes large, abrupt changes in altitude and/or attitude. Aircraft may be momentarily out of control. IAS fluctuates more than 25 KT. (> 1.0 g at the aircraft's centre of gravity). Report as ' **Severe Turbulence** '	Occupants are forced violently against seat belts or shoulder straps. Unsecured objects are tossed about. Food service and walking impossible.

Note: *Pilots should report location(s), time(s) (UTC), incidence, intensity, whether in or near clouds, altitude(s) and type of aircraft. All locations should be readily identifiable. Turbulence reports should be made on request, or in accordance with paragraph 6.2. Example:*

a) Over Pole Hill 1230 intermittent Severe Turbulence in cloud, FL 310, B747.
b) From 50 NM north of Glasgow to 30 NM west of Heathrow 1210 to 1250, occasional Moderate Chop TURB, FL 330, MD80.

Note: *The UK does not use the term 'Extreme' in relation to turbulence.*

6.3.2 Windshear Reporting Criteria

6.3.2.1 Pilots using navigation systems providing direct wind velocity readout should report the wind and altitude/height above and below the shear layer, and its location. Other pilots should report the loss or gain of airspeed and/or the presence of up-or-down draughts or a significant change in crosswind effect, the altitude/height and location, their phase of flight and aircraft type. Pilots not able to report windshear in these specific terms should do so in terms of its effect on the aircraft, the altitude/height and location and aircraft type, for example, 'Abrupt windshear at 500 feet QFE on finals, maximum thrust required, B747'. Pilots encountering windshear are requested to make a report even if windshear has previously been forecast or reported.

6.3.3 Airframe Icing

6.3.3.1 All pilots encountering unforecast icing are requested to report time, location, level, intensity, icing type* and aircraft type (see Table 3.5.6.2 below) to the ATS Unit with whom they are in radio contact. It should be noted that the following icing intensity criteria are reporting definitions; they are not necessarily the same as forecasting definitions because reporting definitions are related to aircraft type and to the ice protection equipment installed, and do not involve cloud characteristics. For similar reasons, aircraft icing certification criteria might differ from reporting and/or forecasting criteria.

Table 3.5.6.2 — Airframe Icing Intensity Criteria

Intensity	Ice Accumulation
Trace	Ice becomes perceptible. Rate of accumulation slightly greater than rate of sublimation. It is not hazardous even though de-icing/anti-icing equipment is not utilised, unless encountered for more than one hour.

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Table 3.5.6.2 — Airframe Icing Intensity Criteria	
Intensity	**Ice Accumulation**
Light	The rate of accumulation might create a problem if flight in this environment exceeds one hour. Occasional use of de-icing/anti-icing equipment removes/prevents accumulation. It does not present a problem if de-icing/anti-icing equipment is used.
Moderate	The rate of accumulation is such that even short encounters become potentially hazardous and use of de-icing/anti-icing equipment, or diversion, is necessary.
Severe	The rate of accumulation is such that de-icing/anti-icing equipment fails to reduce or control the hazard. Immediate diversion is necessary.
*Rime Ice: *Clear Ice:	Rough, milky, opaque ice formed by the instantaneous freezing of small supercooled water droplets. A glossy, clear, or translucent ice formed by the relatively slow freezing of large supercooled water droplets.

6.3.4 Volcanic Ash Reporting

6.3.4.1 Whenever volcanic ash is observed or encountered, a special air-report shall be provided; additionally a post-flight report shall be made on the Volcanic Activity Reporting (Model VAR). All elements which are observed shall be recorded and indicated respectively in the appropriate places on the Model VAR. Once completed, the form should be submitted to the UK Met Office by telephone (+44 (0)330 -1354246) or email to AviationForecasters@metoffice.gov.uk and emarc@metoffice.gov.uk.

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2. Special air-report of volcanic activity form (Model VAR)

MODEL VAR: to be used for post-flight reporting

VOLCANIC ACTIVITY REPORT

Air-reports are critically important in assessing the hazards which volcanic ash cloud presents to aircraft operations.

OPERATOR:			A/C IDENTIFICATION: (as indicated on flight plan)		
PILOT-IN-COMMAND:					
DEP FROM:	DATE:	TIME; UTC:	ARR AT:	DATE:	TIME; UTC:
ADDRESSEE			AIREP SPECIAL		
Items 1–8 are to be reported immediately to the ATS unit that you are in contact with.					
1) AIRCRAFT IDENTIFICATION			2) POSITION		
3) TIME			4) FLIGHT LEVEL OR ALTITUDE		
5) VOLCANIC ACTIVITY OBSERVED AT (position or bearing, estimated level of ash cloud and distance from aircraft)					
6) AIR TEMPERATURE			7) SPOT WIND		
8) SUPPLEMENTARY INFORMATION SO_2 detected Yes ☐ No ☐ Ash encountered Yes ☐ No ☐			Other _____ (Brief description of activity especially vertical and lateral extent of ash cloud and, where possible, horizontal movement, rate of growth, etc.)		
After landing complete items 9–16 then fax form to: (Fax number to be provided by the meteorological authority based on local arrangements between the meteorological authority and the operator concerned.)					
9) DENSITY OF ASH CLOUD	☐ (a) Wispy	☐ (b) Moderate dense	☐ (c) Very dense		
10) COLOUR OF ASH CLOUD	☐ (a) White	☐ (b) Light grey	☐ (c) Dark grey		
☐	(d) Black	☐ (e) Other _____			
11) ERUPTION	☐ (a) Continuous	☐ (b) Intermittent	☐ (c) Not visible		
12) POSITION OF ACTIVITY	☐ (a) Summit	☐ (b) Side	☐ (c) Single		
	☐ (d) Multiple	☐ (e) Not observed			
13) OTHER OBSERVED FEATURES OF ERUPTION	☐ (a) Lightning	☐ (b) Glow	☐ (c) Large rocks		
	☐ (d) Ash fallout	☐ (e) Mushroom cloud	☐ (f) All		
14) EFFECT ON AIRCRAFT	☐ (a) Communication	☐ (b) Navigation systems	☐ (c) Engines		
	☐ (d) Pitot static	☐ (e) Windscreen	☐ (f) Windows		
15) OTHER EFFECTS	☐ (a) Turbulence	☐ (b) St. Elmo's Fire	☐ (c) Other fumes		
16) OTHER INFORMATION (Any information considered useful.)					

6.4 In-flight Procedures

6.4.1 Information to aircraft in flight is usually supplied in accordance with area Meteorological Watch procedures, supplemented when necessary by an En-route Forecast service. Information is also available from the appropriate ATS Unit at the commanders request, or from meteorological broadcasts.

6.4.2 An in-flight en-route service is available in exceptional circumstances by prior arrangement with the Meteorological Authority (see paragraph 1). A meteorological office is designated to provide the aircraft in flight with the winds and temperatures for a specific route sector. Applications for this service should be made in advance, stating:

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a) The flight level(s) and the route sector required;
b) the period of validity necessary;
c) the approximate time and position in flight at which the request will be made
d) the ATS Unit with whom the aircraft is expected to be in contact.

6.4.3 Aircraft can obtain aerodrome weather information from any of the following:

a) VOLMET broadcasts (see paragraph 7);
b) Automatic Terminal Information Service (ATIS) broadcasts (and D-ATIS where available);
c) by request to an ATS Unit but whenever possible only if the information required is not available from a broadcast.

6.4.4 When an aircraft diverts, or proposes to divert, to an aerodrome along a route for which no forecast has been provided, the commander may request the relevant information from the ATS Unit serving the aircraft at the time, and the necessary forecasts will be provided by the associated Forecast Office.

7 VOLMET Service

Table 3.5.7.1 — Meteorological Radio Broadcasts (VOLMET)

Call Sign/ID	EM	Frequency MHz	Operating Hours	Stations	Contents	Remarks
1	2	3	4	5	6	7
London Volmet (Main)	A3E	135.375	H24 continuous	Amsterdam Brussels Dublin Glasgow London Gatwick London Heathrow London Stansted Manchester Paris/Charles de Gaulle	1. Half hourly reports (METAR) 2. The elements of each report broadcast in the following order: 1. Surface wind 2. Visibility (or CAVOK) 3. RVR if applicable 4. Weather 5. Cloud (or CAVOK) 6. Temperature 7. Dewpoint 8. QNH 9. Recent Weather if applicable 10. Windshear if applicable 11. TREND if applicable 3. Non-essential words such as ‘surface wind’, ‘visibility’ etc are not spoken. 4. All broadcasts are in English	
London Volmet (South)	A3E	128.600	H24 continuous	Birmingham Bournemouth Bristol Cardiff Jersey London Luton Norwich Southampton Southend Exeter		
London Volmet (North) **(Note 1)**	A3E	126.600	H24 continuous	East Midlands Humberside Isle of Man Leeds Bradford Liverpool London Gatwick Manchester Newcastle Teesside International		
Scottish Volmet	A3E	125.725	H24 continuous	Aberdeen/Dyce Belfast Aldergrove Edinburgh Glasgow Inverness London Heathrow Prestwick Stornoway Sumburgh		

Note 1: *Broadcasting range extended to cover Southeast England and English Channel.*
Note 2: *An HF VOLMET broadcast for North Atlantic flights (Shannon VOLMET) is operated by the Republic of Ireland.*

GEN 3.5 METEOROLOGICAL SERVICES (continued)

8 SIGMET and AIRMET Service

Table 3.5.8.1 — SIGMET and AIRMET SERVICES

Name of MWO Location Indicators	Hours	FIR or CTA served	Type of SIGMET validity	Specific SIGMET Procedures	AIRMET Procedures	ATS Unit Served	Additional Information
1	2	3	4	5	6	7	8
Met Office Exeter EGRR	H24	London FIR/ UIR Scottish FIR/ UIR Shanwick OCA Shanwick FIR	SIGMET 4 hours Volcanic Ash SIGMET 6 hours	Tropical cyclone SIGMET is not issued.	ICAO Annex 3 AIRMET (low level en-route weather warning) is not issued in the UK.	London Area Control Centre (Swanwick), London Terminal Control (Swanwick), Scottish AC (Prestwick), Shanwick OCA	NIL

8.1 MWOs are responsible for the preparation and dissemination of SIGMETs to appropriate ACC/FIC within their own and agreed adjacent FIRs. Aircraft in flight should be warned by the ACC/FIC of the occurrence or expected occurrence of one or more of the following SIGMET phenomena for the route ahead for up to 500 NM or 2 hours flying time:

- thunderstorm (see Note 2);
- heavy hail (see Note 2);
- tropical cyclone;
- freezing rain;
- severe turbulence (not associated with convective cloud);
- severe icing (not associated with convective cloud);
- severe mountain waves;
- heavy sand/dust storm;
- volcanic ash cloud.

Note 1: *In general, SIGMET messages are identified by the letters WS at the beginning of the header line, but those referring to tropical cyclones and volcanic ash will be identified by WC and WV respectively. SIGMETs are valid for 4 hours, for volcanic ash cloud and tropical cyclones, a further outlook for up to 6 hours may be included and are re-issued if they are to remain valid after the original period expires. They can be cancelled or amended within the period of validity. SIGMETs are numbered sequentially from 0001 UTC each day.*

Note 2: *This refers only to thunderstorms (including if necessary, cumulo-nimbus cloud which is not accompanied by a thunderstorm) widespread within an area with little or no separation (FRQ), along a line with little or no separation (SQL), embedded in cloud layers (EMBD), or concealed in cloud layers or concealed by haze (OBSC), but does not refer to isolated or occasional thunderstorms not embedded in cloud layers or concealed by haze. Thunderstorms and tropical cyclones each imply moderate or severe turbulence, moderate or severe icing and hail. However, heavy hail (HVYGR) may be used as a further description of the thunderstorm as necessary.*

Note 3: *A volcanic ash cloud SIGMET will be issued based on advisory information provided by the relevant VAAC. The Met Watch Office listed in Table 3.5.8.1 will ensure that information included in SIGMET and NOTAM messages is consistent.*

Note 4: *SIGMET messages will be issued not more than 4 hours before the commencement of the period of validity. In the special case of SIGMET messages for volcanic ash cloud and tropical cyclones, these messages will be issued as soon as practicable but not more than 12 hours before the commencement of the period of validity. SIGMET messages for volcanic ash and tropical cyclones will be updated at least every 6 hours.*

8.2 **GAMET Service**

8.2.1 GAMET is a general aviation weather briefing service providing four area forecasts covering the UK for low level flights in plain language, which detail the current Met situation and also contain forecasts of wind, freezing level and weather conditions, and a forecast outlook. GAMET covers the UK. A map giving details of the GAMET forecast areas is shown after paragraph 8.2.4. GAMET information is also provided in text form via the AFS and Internet.

https://www.metoffice.gov.uk/services/transport/aviation/regulated/aviation-briefing-service-guidance.

8.2.2 The forecasts will reflect the contents of SIGMETs which are current at the time of issue or amendments of the forecasts. Safety related amplification of an GAMET forecast may be obtained from a forecaster by telephoning one of the forecast offices listed in Table 3.5.4.1 as providing service 'E'. Callers must be able to confirm that they have obtained a current GAMET forecast on contacting the forecast office, otherwise no additional forecast information will be given.

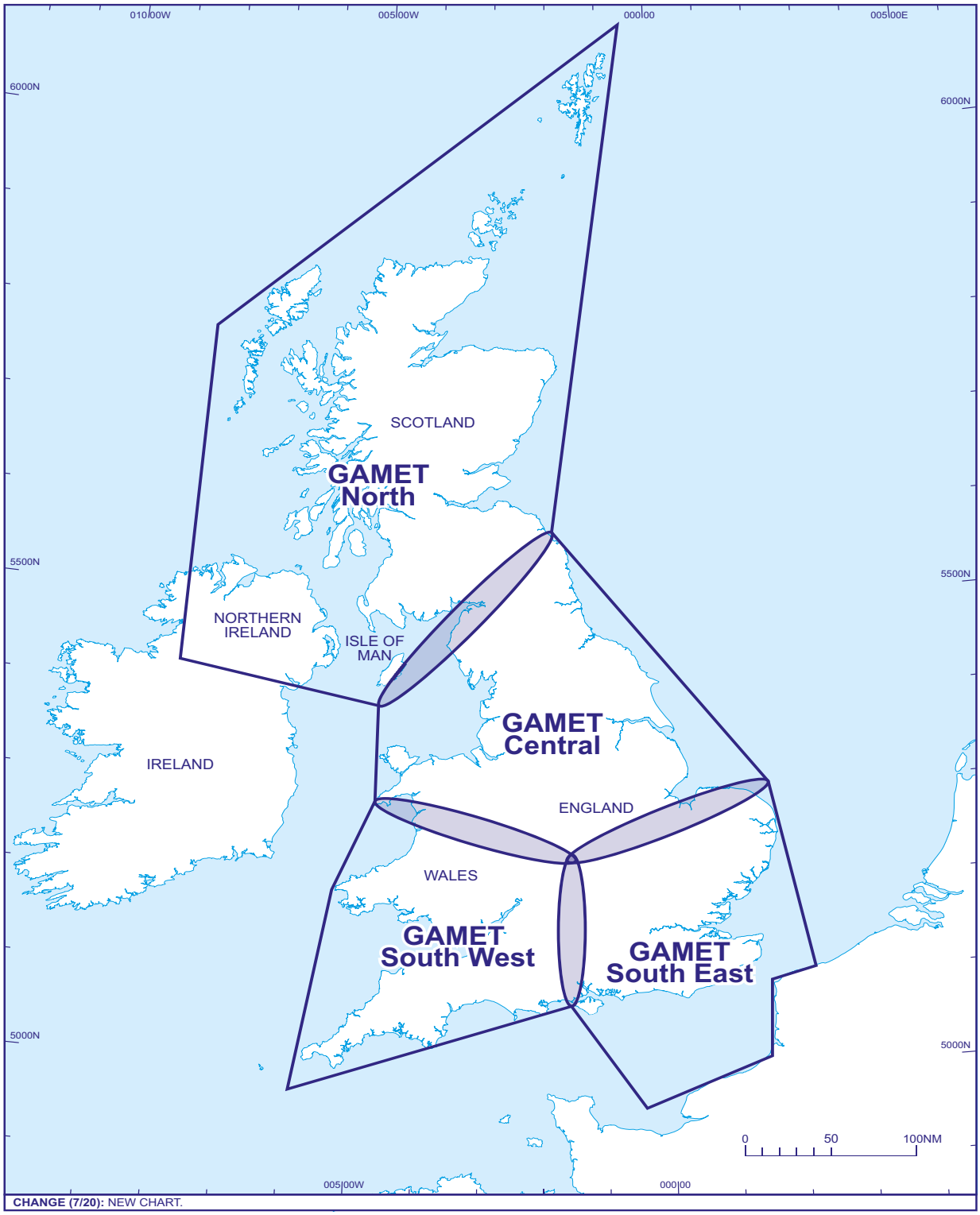
8.2.3 Special Forecasts in accordance with paragraph 5.2 are not provided for flights within the coverage of GAMET Forecasts. For flights which extend beyond the area of coverage, Special Forecasts will be available on request from selected forecast offices providing a service to civil aviation (see Table 3.5.4.1).

8.2.4 Channel Islands Low Level Flight Forecast. Jersey Met provides a 100 NM radius Channel Islands low level forecast. Available on the Internet at http://www.gov.je/Weather/AviationForecast/Pages/Aviation.aspx. Amplification or clarification of the current

GEN 3.5 METEOROLOGICAL SERVICES (continued)

Channel Islands Low Level Flight Forecast may be obtained, following receipt of the forecast, by consulting Jersey Met. Telephone numbers are shown in Table 3.5.4.1.

GAMET FORECAST AREAS



GEN 3.5 METEOROLOGICAL SERVICES (continued)

Table 3.5.8.2 — GAMET FORECASTS						
Regional Area/Forecast	**Update Time**	**Validity period**	**Met Situation validity time**	**Regional Outlook period**	**Spot wind validity**	**UK Outlook period**
Standard for all GAMETs (North, Central, SW and SE)	0400	08-17	1200	18-00	09, 12, 15	00-24
	1000	14-23	1800	00-06	15, 18, 21	06-06
	1600	20-05	0000	06-12	21, 24, 03	12-12
	2200	02-11	0600	12-18	03, 06, 09	18-18

9 Other Automated Meteorological Services

9.1 Details regarding VOLMET radio broadcasts are given in subsection GEN 3.5, paragraph 7. The table below provides details of other automated services for the provision of UK meteorological information.

Table 3.5.9.1 — Other automated meteorological services			
Service name	**Information available**	**Area, route, and aerodrome coverage**	**Access details**
UK OPMET Service (provided by National OPMET Centre (NOC) London, operated by NATS over the AFS).	Volcanic ash advisories; Volcanic Ash SIGMETs; Space weather advisories.	UK and International	Civil aviation users must register for access to the UK OPMET Service by email to: DataServicesSupport@nats.co.uk Registration is free but an AFTN/AHMS connection is required. All registered users of the UK OPMET Service are supplied with all of the information detailed in column 2.
	OPMET: • METAR; • TAF; • Aerodrome Warnings; • Regional Pressure Settings (Forecast QNH); • SIGMET (Warnings of weather significant to flight safety); • GAMET (General Aviation weather briefing forecasts).	UK	When registering for access to the UK OPMET Service users must request specific UK OPMET information selected from the list in column 2 OPMET information for applicable UK locations are disseminated in compiled Bulletins as detailed in Table 3.5.9.2
	OPMET: • METAR; • SPECI; • TAF; • SIGMET (Warnings of weather significant to flight safety); • Tropical Cyclone SIGMET; • Tropical Cyclone Advisories.	International (Special Reports in the SPECI code form are defined as Special Reports disseminated beyond the aerodrome of origin. SPECI are not applicable at UK civil aerodromes).	When registering for access to the UK OPMET Service users must request specific International OPMET information selected from the list in column 2. International OPMET is made available in a data set. Details of the data set are listed in the “ICAO EUR region and SADIS OPMET Catalogue” https://www.icao.int/airnavigation/aeronautical-meteorological-service/documents which is maintained on the ICAO Public website in the “MOG-SADIS/WIFS Reference Documents” section.
UK Quantitative Volcanic Ash (QVA) Service (provided by VAAC London)	Quantitative Volcanic Ash (QVA) service • Expected (Forecast) Ash Concentration; • Probability of Ash Exceedance; • Feature Objects; • Published data covers the period T+0 to T+24 at 3-hourly intervals.	Gridded data and feature objects are available for areas within the VAAC London and VAAC Toulouse area of responsibility. Gridded data sets available in 5000 FT thick horizontal slices for FLs: 000-050, 050-100, 100-150, 150-200, 200-250, 250-300, 300-350, 350-400, 400-450, 450-500, 500-550, 550-600. Horizontal resolution 0.25 degrees.	• General information about the QVA forecasts can be found on the VAAC London website, including example QVA charts: https://www.metoffice.gov.uk/services/transport/aviation/regulated/international-aviation/vaac/qva/index • More detailed information about the service is contained in the VAAC London Quantitative Volcanic Ash (QVA) API – User Guide, available from https://www.metoffice.gov.uk/binaries/content/assets/metofficegovuk/pdf/services/transport/aviation/vaac/vaac-london-qva-user-guide-v1.0.pdf

GEN 3.5 METEOROLOGICAL SERVICES (continued)

Table 3.5.9.1 — Other automated meteorological services

Service name	Information available	Area, route, and aerodrome coverage	Access details
ICAO Secure Aviation Data Information Service Application Programming Interface – SADIS API (provided by the Met Office on behalf of ICAO).	World Area Forecast System Upper Air Gridded Data Forecasts. • Wind, temperature, relative humidity, tropopause height/ temperature, icing and turbulence severity, cumulonimbus extent, base and top. • Forecast timesteps from T+06 hours up to T+120 hours.	Gridded data is available globally for up to 56 vertical levels or as regional subsets.	Civil aviation users must apply to the UK Met Authority (CAA) for authorization to access SADIS. Applications should be submitted by email to: metauthority@caa.co.uk Access to SADIS is free at the point of use but an internet connection is required, and user's systems (software and hardware) must meet minimum requirements to enable connection, download, and use of IWXXM and TAC format data from the SADIS API. Note: Certain OPMET Data supplied via the SADIS API is only provided in TAC or Graphic format. Full details of the SADIS API are available via the following link: https://www.metoffice.gov.uk/services/transport/aviation/regulated/international-aviation/sadis/sadis-api/index
	World Area Forecast System Upper Air Significant Weather (SIGWX) Forecasts. • Jet stream, turbulence, cumulonimbus clouds, icing, the tropopause, volcanic eruptions, tropical cyclones and nuclear releases. • Forecast timesteps from T+06 hours up to T+48 hours.	SIGWX forecast information is available globally and covers FL100 to FL600.	
	OPMET: • METAR; • SPECI; • TAF; • SIGMET (Warnings of weather significant to flight safety); • AIRMET; • Volcanic Ash Advisory; • Tropical Cyclone Advisory SIGMET; • GAMET; • Nuclear emergency messages; • Volcanic Ash NOTAMs and ASHTAMs.	UK and International (Special Reports in the SPECI code form are defined as Special Reports disseminated beyond the aerodrome of origin. SPECI are not applicable at UK civil aerodromes).	

GEN 3.5 METEOROLOGICAL SERVICES (continued)

Table 3.5.9.1 — Other automated meteorological services

Service name	Information available	Area, route, and aerodrome coverage	Access details
Met Office Aviation Briefing Service (ABS)	TAFs and METARs	UK, Europe & Global	All information specified in column 2 is available to civil aviation users by registering for access to the Met Office Aviation Briefing Service web portal (free registration) via this link: https://www.metoffice.gov.uk/services/transport/aviation/regulated/national-aviation/abs/index
	SIGMET & GAMET	UK	
	Ballooning Forecast (Contains forecasts of surface wind, thermal activity, inversions, wind shear, sea breezes, plus forecasts of the lowest pressure (QNH), humidity and surface temperature).	UK (The information is provided as a combination of site-specific data, area text, and graphical visualisation of forecasts)	
	London Helicopter Forecast (Contains forecasts of cloud base, surface visibility and freezing level provided as text, with each forecast area colour-coded to alert users when forecast data indicates that cloud base and/or surface visibility might breach specified thresholds).	London CTA (For the purposes of this service, the London CTA is split into four forecast areas covering the London CTR and London/City CTR).	
	Regional Pressure Settings	UK	
	Volcanic Ash Advisories	issued by VAAC London and/or VAAC Toulouse	
	Briefing charts (Surface pressure, F214/F215 spot winds and F215/F415 low-level significant weather).	UK & Europe	
	Interactive briefing maps displaying TAF & METAR status and user selected weather layers (current weather, forecast wind, temperature & precipitation).	UK & Europe	
Met Office Aerodrome Weather Warning Service	Issued to provide notice to users of adverse conditions at aerodromes (Strong wind, Frost, Snow, Fog, Thunderstorm, Hail, Freezing Precipitation and Temperature Inversion).	UK	Aerodrome Warnings are accessed via the Met Office Aviation Briefing Service (ABS) portal. Users can also set up warnings by email by selecting specific aerodromes within the ABS portal.
Met Office Space Weather Service	Aviation sector specific Space Weather Alerts and Warnings.	Global	To receive automated email alerts and warnings users must request a space weather account from the Met Office via this link: https://weather.metoffice.gov.uk/specialist-forecasts/space-weather
Met Office training and reference resources	Information on accessing aviation related meteorological information from a variety of sources.	UK & Europe	Downloaded as a pdf from the Met Office website via this link: https://www.metoffice.gov.uk/services/transport/aviation/regulated/training-resources-for-aviation/index#GetMet

Note: *Details of meteorological briefing at aerodromes are given in the individual aerodrome sections i.e. AD 2.11 and AD 3.11.*

Table 3.5.9.2 — UK OPMET Bulletin Headers and Locations

Compiled Bulletin Header		ICAO Location Identifier within the compiled Bulletin – CCCC as per ICAO DOC 7910							
TTAAii	CCCC								
FCUK22	EGGY	EGHC	EGHE	EGHQ	EGJA	EGLF			
FCUK23	EGGY	EGBJ	EGCK	EGSC	EGSY	EGTC	EGTK		
FCUK24	EGGY	EGAE	EGEC	EGNC	EGNO	EGNR	EGPI		
FCUK25	EGGY	EGEO	EGPC	EGPE	EGPL	EGPN	EGPO	EGPU	
FCUK31	EGGY	EGLC	EGHH	EGHI	EGKA	EGMC	EGKB		
FCUK32	EGGY	EGNS	EGNV	EGNH	EGNJ	EGAC	EGPB	EGPA	
FCUK33	EGGY	EGJB	EGJJ	EGTE	EGSH	EGMD			

GEN 3.5 METEOROLOGICAL SERVICES (continued)

Table 3.5.9.2 — UK OPMET Bulletin Headers and Locations									
Compiled Bulletin Header		ICAO Location Identifier within the compiled Bulletin – CCCC as per ICAO DOC 7910							
TTAAii	CCCC								
FTUK21	EGGY	EGCN	EGVN	EGWU					
FTUK31	EGGY	EGCC	EGKK	EGLL	EGSS				
FTUK32	EGGY	EGNM	EGNX	EGGP	EGNT				
FTUK33	EGGY	EGBB	EGFF	EGGW	EGGD				
FTUK34	EGGY	EGPF	EGPH	EGPK	EGAA	EGPD			
SAUK20	EGGY	EGRE	EGRK	EGRO	EGRP	EGRS	EGRV	EGRW	
SAUK21	EGGY	EGRF	EGRG	EGRI	EGRL	EGRN	EGRT		
SAUK22	EGGY	EGHC	EGHE	EGHQ	EGJA	EGLF	EGVN	EGWU	
SAUK23	EGGY	EGBJ	EGCK	EGSC	EGSY	EGTC	EGTK		
SAUK24	EGGY	EGAE	EGCN	EGEC	EGNC	EGNO	EGNR	EGPI	
SAUK25	EGGY	EGEO	EGPC	EGPE	EGPL	EGPN	EGPO	EGPU	
SAUK31	EGGY	EGBB	EGCC	EGKK	EGLL	EGPF	EGPH	EGPK	EGSS
SAUK32	EGGY	EGGW	EGKA	EGKB	EGLC	EGMC	EGMD	EGSH	
SAUK33	EGGY	EGFF	EGGD	EGHH	EGHI	EGJB	EGJJ	EGTE	
SAUK34	EGGY	EGGP	EGNH	EGNJ	EGNM	EGNT	EGNV	EGNX	
SAUK35	EGGY	EGAA	EGAC	EGNS	EGPA	EGPB	EGPD		
SAUK39	EGGY	EGUN							

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GEN 3.6 SEARCH AND RESCUE

1 Responsible Services

1.1 Responsibility for Search and Rescue (SAR) for civil aircraft within the UK Search and Rescue Region (SRR) rests with the Department for Transport (DfT). Responsibility for Aeronautical SAR Coordination is discharged by the UK Joint Rescue Centre (UK JRCC), which is staffed by specialist personnel of His Majesty's Coastguard (HMCG). SAR Helicopter Services are provided under contract to DfT by Bristow Helicopters Ltd, while fixed wing SAR Services are provided under contract to DfT by 2Excel Aviation Ltd and Reconnaissance Ventures Ltd.

1.1.1 The DfT is responsible for SAR policy for civil aviation.

Post: Department for Transport, Airports Policy Division, Great Minster House, 76 Marsham Street, London, SW1P 4DR
Phone: 020-7944 4393
Fax: 020-7944 2192

1.1.2 The Civil Aviation Authority (CAA) acts as adviser on SAR to the DfT. Queries on SAR for civil aviation, including matters arising from this section of the AIP, should be addressed to:

Post: Airspace Regulation, CAA, 1 NE Aviation House, Beehive Ring Road, Crawley, West Sussex, RH6 0YR
Email: airspace@caa.co.uk

1.1.3 SAR aviation services are managed by the Maritime and Coastguard Agency (MCA) Commercial Directorate.

Post: MCA Commercial Directorate (Aviation). Spring Place, 105 Commercial Road, Southampton, Hampshire, SO15 1EG
Phone: 023-8032-9416 or 023-8032-9486

1.1.4 Implementation of SAR services for civil aviation throughout the UK SRR is undertaken by the UK JRCC.

Post: UK JRCC, 12 Kites Croft Business Park, Fareham, Hampshire, PO14 4LW
Phone: 023-8032-9100

1.2 **Applicable ICAO Documents**

1.2.1 The Standards, Recommended Practices and, when applicable, the procedures contained in the following ICAO documents are applied:

Annex 2	-	Rules of the Air;
Annex 3	-	Meteorological Services for International Air Navigation;
Annex 6	-	Operation of Aircraft - Parts I, II & III;
Annex 10	-	Aeronautical Telecommunications - Volume I & II;
Annex 11	-	Air Traffic Services;
Annex 12	-	Search and Rescue;
Annex 13	-	Aircraft Accident Investigation;
Annex 15	-	Aeronautical Information Services;
Annex 17	-	Security;
Annex 18	-	The Safe Transport of Dangerous Goods by Air;
Doc 4444 ATM/501	-	Procedures for Air Navigation Services - Air Traffic Management;
Doc 7030	-	Regional Supplementary Procedures;
Doc 7754	-	Air Navigation Plan - European Region;
Doc 8755	-	Air Navigation Plan - North Atlantic;
Doc 9731	-	IAMSAR Manual.

2 Area of Responsibility

2.1 In general, aeronautical SRR boundary coincides with FIR boundary. The UK SRR comprises the London, Scottish and Shanwick FIRs but to the North and East of the UK, the boundaries with Iceland, Norway, Denmark and Germany have been modified by a series of bilateral agreements. Under these agreements, the SRR boundary no longer follow the FIR boundaries but have been aligned with the median line. The UK SRR boundary co-ordinates are given below and a chart depicting the areas of responsibility is shown after GEN 3.6, paragraph 6.12, Tables 1 and 2.

2.2 UK JRCC. The area of responsibility is enclosed by the lines joining the following points:

610000N 0300000W - 610000N 0040000W - 632833N 0004622W - 632833N 0000000E - 620000N 0000000E

620000N 0012222E - 614410N 0013329E - 612122N 0014718E - 595346N 0020430E - 591722N 0014236E

582546N 0012854E - 575416N 0015748E - 563540N 0023642E - 560510N 0031455E - 555458N 0032055E

GEN 3.6 SEARCH AND RESCUE (continued)

555004N 0032355E - 554552N 0032208E - 543715N 0025349E - 542245N 0024543E - 531803N 0030319E

524657N 0031213E - 523715N 0031055E - 522457N 0030325E - 521721N 0025555E - 520557N 0024249E

515857N 0023731E - 514815N 0022849E - 513000N 0020000E - 510700N 0020000E - 510000N 0012800E

504000N 0012800E - 500000N 0001500W - 500000N 0020000W - 485000N 0080000W - 450000N 0080000W

450000N 0300000W - 610000N 0300000W.

with the exception of the Shannon FIR which is bounded by lines joining the following points:

540000N 0150000W - 543400N 0100000W - 544500N 0090000W - 552000N 0081500W - 552500N 0072000W

552000N 0065500W - 542500N 0081000W - 535500N 0053000W - 522000N 0053000W - 510000N 0080000W

510000N 0150000W - 540000N 0150000W.

3 Types of Service

3.1 Locations and types of dedicated SAR facilities are listed below, and shown on the chart published after GEN 3.6, paragraph 6.12, Tables 1 and 2:

a) HMCG helicopters, under DfT contract;
b) MCA fixed wing aircraft, under DfT contract.

3.1.1 Specialized SAR helicopters are equipped with winch gear.

Table 3.6.3.1 State of readiness of individual SAR units

Unit	State of Readiness	Remarks
HM Coastguard	15 min (0800-2200 local time) 45 min (2200-0800 local time)	
MCA Fixed Wing Aircraft	45 min (0800-2200) 60 min (2200-0800)	

3.1.2 In undertaking Aeronautical SAR Coordination for incidents on land or at sea, the UK JRCC works in partnership with those agencies with statutory responsibility, or primacy, for SAR Coordination respective of the environment of the incident. In responding to aeronautical incidents, the UK JRCC works in partnership with the Distress and Diversion Cell (D&D), 78 Sqn Swanwick Mil, based at NATS Swanwick. In responding to satellite emergency beacon alerts, the UK JRCC works in partnership with the UK Mission Control Centre, which is co-located with the JRCC. Through these agencies, the JRCC can call upon the following resources for assistance:

a) HM Coastguard Coastal Rescue Teams;
b) Royal National Lifeboat Institution vessels;
c) MoD aircraft, vessels and personnel;
d) Police, Fire and Ambulance services;
e) Commercial Air Transport aircraft;
f) Merchant and leisure vessels;
g) Civilian Volunteer Land Rescue Teams;
h) RAF Mountain Rescue;
i) COSPAS/SARSAT and SAR SPOT satellite distress alerting systems;
j) Neighbouring and International SAR Agencies;
k) Commercial SAR Aircraft.

3.1.3 **Distress Frequencies**

3.1.3.1 SAR aircraft and other military aircraft carry the distress frequencies shown in table 3.6.3.2:

Table 3.6.3.2 Distress frequencies carried by SAR aircraft and other military aircraft

Frequency	Speech Facility	Homing Facility
121.500 MHz	a) HMCG helicopters. b) MCA fixed wing aircraft. c) MoD helicopters and fixed wing aircraft. d) Commercial Air Transport aircraft.	a) HMCG helicopters. b) Some MoD helicopters and fixed wing aircraft.
243.00 MHz	a) HMCG helicopters. b) MoD helicopters and fixed wing aircraft.	a) HMCG helicopters. b) Some MoD helicopters and fixed wing aircraft.

GEN 3.6 SEARCH AND RESCUE (continued)

3.1.4 **Scene of Search Frequencies**

3.1.4.1 SAR aircraft may use any of the following frequencies as a Scene of Search frequency:

	123.100 MHz	Civil;		156.300 MHz	Channel 6 VHF/FM Marine;
	282.800 MHz	NATO;	*	156.800 MHz	Channel 16 VHF/FM Marine;
*	5680 kHz	Civil/Military-Day (SAMAR 1);	*	3023 kHz	Civil/Military-Night (SAMAR 1);
*	3085 kHz	Military-Night (SAMAR 4);	*	5695 kHz	Military-Day (SAMAR 4);
			*	8364 kHz	International intercommunication.
*	Emission J3E or 6K00A3EJN				

Note: *Other HF frequencies may be used as directed by the controlling JRCC.*

4 SAR Agreements

4.1 As a Contracting State under the Convention on International Civil Aviation, the United Kingdom is committed to providing SAR services for international civil aviation throughout defined areas on a 24 hour basis. These areas consist of the UK overland area and adjacent sea areas to approximately midway to the European mainland to the east and to 030W over the North Atlantic, excluding the Shannon FIR (see chart published after GEN 3.6, paragraph 6.12, Tables 1 and 2).

4.1.1 The International Civil Aviation Organization's (ICAO) Regional Air Navigation Plans do not define the scale of effort which should be available but identify the required facilities by types of services which should be provided with due regard to the density of traffic and the size and passenger capacity of aircraft operating in the region.

4.1.2 As a member of NATO, a contracting State under the ICAO Convention and according to bilateral inter-RCC agreements, the United Kingdom can seek SAR assistance from the resources of other nations as necessary.

4.1.3 When the UK JRCC requests the assistance of suitable SAR aircraft from a neighbouring State RCC, it will provide all pertinent details on the scope of the assistance required. Entry and flight of the requested SAR aircraft into or over the territory of the UK for the purpose of conducting SAR operations may be conducted in accordance with the procedures and approvals granted by the State of the operator of the aircraft. If it is necessary for the requested SAR aircraft to land at a UK airfield or to make use of other facilities in the course of performing its assigned SAR task, the UK JRCC will coordinate arrangements and liaise with the appropriate organisations to facilitate the taking of such measures or actions.

5 Conditions of Availability

5.1 The availability of both British military SAR facilities is on the authority of MoD. The availability of Foreign civilian and NATO military SAR facilities is on the authority of the appropriate RCC which remains responsible for operational control of such facilities throughout the duration of the requirement (whether a Maritime RCC (MRCC) or Joint Rescue Coordination Centre (JRCC)).

6 Procedures and Signals Used

6.1 The Rescue Organisation

6.1.1 When D&D has reason to believe that an aircraft is in a state of emergency, it will alert the JRCC who will, in turn, alert SAR units and the Police (D&D may alert the Police directly in extremis if appropriate to do so); the police will notify civilian MRT, fire, ambulance and hospital services. In addition, the JRCC may alert RAF Mountain Rescue Teams, via the MoD. Should the first report of an accident be given to the police by a member of the public, the police will alert fire and other services. The police will also advise the ACC of the rescue action being taken and give full details.

6.1.2 The JRCC will handover responsibility, or primacy, for SAR Coordination to the best placed Maritime Rescue Coordination Centre should an Aviation SAR incident become a Maritime accident. Where an Aviation SAR incident occurs across an SRR boundary, the UK JRCC will liaise with the relevant foreign RCC, confirming the individual RCC responsibilities, and primacy, for the response.

6.1.3 When the location of a civil aircraft which has crashed on land is known, and no air search is necessary, the civil ground organization (normally the police) takes responsibility for dealing with the incident. However, it is essential that both D&D **and** the JRCC are informed to avoid duplication of effort and for expert consideration of any SAR back-up services which could be required.

6.1.4 In the vicinity of aerodromes it is not possible to define in specific terms where the responsibility of the SAR services begins and that of the aerodrome emergency services ends with respect to potential incidents, so the closest co-operation must be maintained between these two services.

6.1.5 Direct speech circuits exist between the UK JRCC and the (D&D) cell at the 78 Sqn Swanwick Mil (Co-located at NATS Swanwick). Under normal circumstances, the quickest and most reliable means for an aerodrome to alert the JRCC is via D&D cell, but a direct

GEN 3.6 SEARCH AND RESCUE (continued)

call to the JRCC on any of its listed numbers may at times be more expedient.

6.2 Alerting

6.2.1 The alerting service is available for all aircraft which are known by the air traffic services to be operating within the UK Flight Information Regions (FIRs). The responsibility for initiating action normally rests with the Air Traffic Service Unit (ATSU) which was last in communication with the aircraft in need of SAR assistance or which receives such information from an external source.

6.2.2 If a distress signal and/or message is intercepted by their aircraft, pilots are to inform the appropriate ATSU giving all available information who are in turn to inform D&D. The UK JRCC does not maintain a listening watch on VHF.

6.2.3 **Difficult Areas for SAR**

6.2.3.1 Although the UK has not formally designated land or sea areas where SAR operations would be difficult, EASA regulations state that all General Aviation (GA) aircraft, should carry appropriate survival equipment, including an Emergency Locator Transmitter (ELT) or Personal Locator Beacon (PLB).

6.2.3.2 The following areas within the UK are considered to be difficult from a SAR aspect:

The Scottish Highlands;	The Hebrides, Orkneys and Shetlands;	The Pennine Range;
The Lake District;	The Yorkshire Moors;	The Welsh Mountains;
The Peak District of Derbyshire;	Exmoor;	Dartmoor.

6.2.4 For flight over the North Atlantic (NAT), International GA (IGA) pilots should pay particular attention to the varying requirements of the NAT provider states. Canada, Iceland, Denmark and Greenland have requirements more stringent than those of the UK particularly regarding the carriage of ELTs, survival equipment, communications, aircraft inspections and navigation equipment, fuel reserves and instrument ratings. IGA pilots planning trans-oceanic flight are strongly recommended to read the North Atlantic International General Aviation Operations Manual and to seek advice and guidance from the UK Aeronautical Information Service (see GEN 3.1).

6.3 Communication

6.3.1 Distress and urgency communications within the UK SRR are in accordance with standard international procedures.

6.3.2 **Emergency Service**

6.3.2.1 An emergency communications and aid service is continuously available on 121.500 MHz. The service covers most of the UK above 3000 FT, but in many areas reception is good below this altitude. In an emergency, pilots who have difficulty in establishing communication on the frequency in use should make use of the service on 121.500 MHz.

6.3.2.2 Executive control is exercised from D&D, callsign 'London Centre', throughout the London and Scottish FIRs/UIRs. Aerodromes capable of providing an emergency service on 121.500 MHz are listed via paragraph 6.5 below.

6.3.2.3 It is not necessary for pilots in emergency to address the initial 'MAYDAY' or 'PAN PAN' call to a specific unit. The D&D Emergency Controller at Swanwick will answer the call irrespective of the location of the transmission. If transponder fitted, in emergency select code 7700 (emergency) or 7600 (radio failure) to assist the Emergency Controller in determining your position and providing a timely response.

6.3.2.4 Pilots should be aware that the airspace west of ATS Route N864 has limited VHF Direction Finding (VDF) coverage and the Emergency Controller's ability to locate an aircraft using VDF is dependent on the aircraft's position and altitude. Furthermore, at the D&D, due to the lack of primary radar in the Southwest, non-transponding aircraft will be difficult to locate and will not receive a radar service from the D&D Emergency Controller. Response time to any incident is governed by the amount of assistance received from other ATC units and the Coastguard authorities.

6.4 Emergency Satellite Voice Calls from Aircraft

6.4.1 For aircraft flying in the London, Scottish and Shanwick FIRs/UIRs, in the event that all other means of communication have failed, dedicated satellite voice telephone numbers for the D&D section and for the Shanwick OAC have been programmed into the aeronautical Ground Earth Stations of the Inmarsat Signatories.

6.4.2 The allocated airborne numbers for use via the aircraft satellite voice equipment are as follows:

(a) Shanwick OAC	423201	To be used only in emergency situations. This facility is provided in addition to the number for routine ATS messages via Shanwick Radio (425002) and allows direct pilot/controller communication.
(b) 78, Sqn, Swanwick D&D	423202	

GEN 3.6 SEARCH AND RESCUE (continued)

6.4.3 It must be emphasised that these numbers are for emergency use only, when all other airborne means of communication with the appropriate ATSU have failed.

6.4.4 Almost instantaneous aircraft position fixing by auto-triangulation is available H24 on 121.500 MHz over most of central and southeast England above 3000 FT AMSL but down to 2000 FT AMSL in the vicinity of the London airports. Outside the coverage of the auto - triangulation system, position may be fixed by use of surveillance equipment or by investigative measures based upon last known position and when, speed, direction of travel and observable features from the aircraft which may take several minutes and multiple transmissions.

6.4.5 Aircraft operating in the Shanwick OCA are required to maintain a continuous watch on 121.500 MHz (see ENR 2.2 (Shanwick Oceanic Control Area (North Atlantic Region - NAT) paragraph 9). For operations over the sea, out of range of land based emergency communications, pilots, particularly IGA pilots at low altitude, should, if in difficulty, attempt to establish contact with aircraft at higher levels.

6.4.6 When an emergency is ended, it is important that the controlling authority is so informed and that the pilot states his intentions before leaving the frequency in use. This will ensure that SAR actions already underway are cancelled.

6.5 Units with Emergency Facilities on 121.500 MHz

6.5.1 In addition to the 24 hour service provided by the London ACC, there are a number of UK aerodromes that can provide a service on 121.500 MHz, including UK civil aerodromes listed in the ICAO European Air Navigation Plan, Volume I Part II (AOP) Table AOP I-1, International Aerodromes Required in the EUR Region. At Brize Norton which is the Military Emergency Diversion Aerodrome (MEDA), a 24 hour communications monitor is maintained on 121.500 MHz. The civil aerodromes listed do not routinely monitor 121.500 MHz, but this frequency can be activated as necessary to provide a clear channel for emergency traffic. This facility can be requested by direct call to the unit concerned on an in-use frequency, or, more usually, by request from an ACC.

6.5.2 **Aircraft Not Equipped with Radio**

6.5.2.1 A pilot of an aircraft not equipped with radio is advised to file a Flight Plan if he intends to fly more than 10 NM from the coast or over sparsely populated or mountainous areas as this will assist rescue action should the aircraft be reported overdue. Pilots should particularly note that Flight Plans can only be delivered to destinations which are on the AFS or linked to the AFS by the parent station scheme and that search action can only be initiated if an aircraft is reported overdue. This action is performed by the destination aerodrome ATSU, when established, but pilots intending to fly to destinations which are not on the AFS or linked to them by a parent station should advise a responsible person at their destinations of the intended flight and arrange for that person to notify the ATS authorities in the event of non-arrival.

6.6 Flight in Areas in which Search and Rescue Operations are in Progress

6.6.1 To avoid interference with SAR operations and to avoid unnecessary collision hazard, pilots are strongly advised not to fly near an area where SAR operations are known to be in progress. Crews of aircraft involved in the SAR operation may be performing complex manoeuvres, often in poor weather conditions, and may not be able to maintain a good lookout for itinerant aircraft.

6.6.2 Pilots who consider it necessary to fly in a known area of SAR operations should:

a) Contact the JRCC by telephone before departure;
b) file a Flight Plan giving times of entering and leaving the area and the height to be flown, ensuring that the JRCC is included among the addressees;
c) obtain the latest information about weather conditions en-route and in the search area;
d) monitor the VHF International Distress (121.500 MHz) and the Scene of Search (123.100 MHz) frequencies when in the vicinity, but avoid transmitting on these frequencies.

6.6.3 Under certain circumstances, a Temporary Danger Area (TDA) may be established around the scene of an incident. This will normally be established by NOTAM. If such a measure fails to achieve its objective, Restriction of Flying (Emergency) Regulations may be invoked. These will make it an offence for an aircraft to be flown in the designated area. Such regulations will also be promulgated by NOTAM (see also ENR 1.1.5).

6.7 Action by Survivors

(See also paragraphs 8 and 10)

6.7.1 Basic procedures that can assist SAR operations are set out below.

6.7.1.1 Life Rafts

Survivors should use some or all of the following methods when search aircraft or surface craft are seen or heard:

a) Fire distress flares or cartridges;
b) use some object with a bright flat surface as a heliograph;
c) flash torch or mobile phone;

d) fly anything in the form of a flag and, if possible, make the international distress signal by flying a ball, or something resembling a ball, above or below it;
e) use the fluorescent marker to leave a trail in the sea.

6.7.1.2 Crash Landing in Isolated Area

Survivors should use some or all of the following methods to attract attention when aircraft or surface craft are heard or seen:

a) Visual and ground signals (see paragraphs 6.10 to 6.12 and the Ground to Air Emergency Signalling Code Tables 1 and 2 following paragraph 6.12);
b) make the aircraft as conspicuous as possible by spreading any parachutes or other material over the wings and fuselage;
c) smoke or fire. A continuously burning fire is recommended, with material kept ready to hand to cause it to smoke at short notice. A quantity of green branches, leaves, oil or rubber from the aircraft should achieve the desired result. Three fires in the form of a triangle make a good signal especially at night.

6.8 Emergency Locator Transmitters (ELT) and Personal Locator Beacons (PLBs)

6.8.1 The COSPAS/SARSAT (C/S) system uses near-polar orbital satellites, the LEOSAR system, Geostationary satellites, the GEOSAR system, and global orbiting satellites called the MEOSAR system, to detect and localize signals from ELTs, PLBs and EPIRBs. The UK has a Local User Terminal (LUT), currently at Lee-On-Solent, that processes the satellite downlink from all three satellite constellations, and passes ELT, PLB and EPIRB locations to the UK Mission Control Centre (UKMCC) collocated at the JRCC in Fareham. These beacons operate on the 406.0 - 406.1 MHz frequency and detect transmissions across the entire globe. Location accuracy is normally better than 5 KM through the LEOSAR satellites, whereas the Geostationary satellites require position information to be included in the beacon alert transmission, achieved through a GNSS chip contained within the beacon, which can provide position accuracy to greater than 1 KM. The MEOSAR system, when at Full Operational Capability, will achieve greater location accuracy of 5 KM or less, 95% of the time, with near instantaneous alert information. This is due to the unique continuous global coverage. Position resolution (5 KM or better) via the LEOSAR system does not usually exceed 90 minutes. This is due to this system working solely on Doppler and requires at least two satellite passes, for position resolution. If the beacon has a GNSS chip within it, position detection and position information is near instantaneous, via the GEOSAR satellites.

6.8.2 Because the C/S system can detect 406 MHz beacon transmissions throughout the entire globe, and because much of the UK SRR covers an area of busy civil and military air traffic where the distress frequencies are routinely monitored, survivors should switch on an ELT without delay.

6.8.3 Valuable SAR assets can be expended searching for the source of inadvertent distress transmissions and thus delay the response to an actual emergency situation; great care should be taken to avoid inadvertent transmissions, especially during maintenance or testing of 406 MHz beacons, which is when the beacon should be placed in self-test mode. Should inadvertent transmissions occur, a report should be made immediately to the nearest MCC to where the beacon is currently located, to cancel an unnecessary SAR response. If the beacon is within the UK, contact should be made to the UKMCC on +44(0)34438-20902.

6.8.4 ELT/PLB coding and registration arrangements are provided at AIC P 053/2018.

6.9 SAR Callsigns

6.9.1 Within the UK SRR, forces engaged in SAR operations normally use callsigns assigned by the JRCC and prefixed by the root word 'RESCUE'. Fixed-wing assets use a 2 figure number, for example 'RESCUE 41'. DfT contracted SAR helicopters use the prefix 'RESCUE' plus a 3 digit numeric, for example 'RESCUE 175'.

6.10 Search and Rescue Signals

6.10.1 The SAR signals to be used are in accordance with international procedures. When signalling to surface craft, visual signals can be more effective than audio signals because of possibly high noise levels on board the surface craft.

6.10.2 Signals to Surface Craft

GEN 3.6 SEARCH AND RESCUE (continued)

6.10.2.1 The following manoeuvres performed in sequence by an aircraft mean that the aircraft wishes to direct a surface craft towards an aircraft or a surface craft in distress:.

a) Circling the surface craft at least once.
b) Crossing the projected course of the surface craft ahead at low altitudes and:

i. rocking the wings; or
ii. opening and closing the throttle; or
iii. changing the propeller pitch.

c) Heading in the direction in which the surface craft is to be directed. Repetition of such manoeuvres has the same meaning.

6.10.2.2 The following manoeuvre by an aircraft means that the assistance of the surface craft to which the signal is directed is no longer required:

Crossing the wake of the surface craft close astern at a low altitude and:

a) rocking the wings; or
b) opening and closing the throttle; or
c) changing the propeller pitch.

6.10.3 The following replies may be made by surface craft to the signals in paragraph 6.10.2.1 (b).

6.10.3.1 To acknowledge receipt of signals:

a) hoist the 'code pennant' (vertical red and white stripes) close up (meaning understood);
b) flash a succession of 'T's by signal lamp in the Morse Code;
c) change heading to follow the aircraft.

6.10.3.2 To indicate inability to comply:

a) hoist the international flag 'N' (a blue and white chequered square);
b) flash a succession of 'N's in the Morse Code.

6.11 Ground-to-Air Emergency Signalling Code

6.11.1 The following guidelines should be employed when using the symbols, as detailed in Tables 1 and 2 shown after GEN 3.6, paragraph 6.12.

6.11.2 The symbols should be at least 2.5 M (8 FT) long and should be made as conspicuous as possible by attempting to provide the maximum colour contrast between the symbols and the background against which they are displayed.

6.11.3 Care should be taken to lay out symbols exactly as depicted to avoid any possible confusion with other symbols.

6.11.4 Symbols may be formed by any means such as: strips of fabric, parachute material, pieces of wood, stones, by trampling, or staining the surface with oil etc. When the surface is snow covered, signals can be made by dragging, shovelling or trampling the snow. The symbols thus formed will appear to be black from the air.

6.11.5 In addition to using these symbols every effort should be made to attract attention to them by means of radio, flares, smoke, reflected light or by other available means.

6.12 Air-to-Ground Signals

6.12.1 The following signals by aircraft mean that the ground signals have been understood.

- During the hours of daylight: — rocking the aircraft's wings.
- During the hours of darkness: — flashing on and off twice the aircraft's landing lights or, if not so equipped, by switching its navigation lights on and off twice.

6.12.2 Lack of the above signals indicates that the ground signal is not understood.

GEN 3.6 SEARCH AND RESCUE (continued)

GROUND TO AIR EMERGENCY SIGNALLING CODE

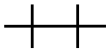
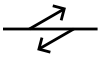
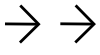
Table 1:

GROUND-AIR VISUAL SIGNAL CODE FOR USE BY SURVIVORS

No.	Message	Code Symbol
1	Require assistance	
2	Require medical assistance	
3	No or negative	
4	Yes or affirmative	
5	Proceeding in this direction	

Table 2:

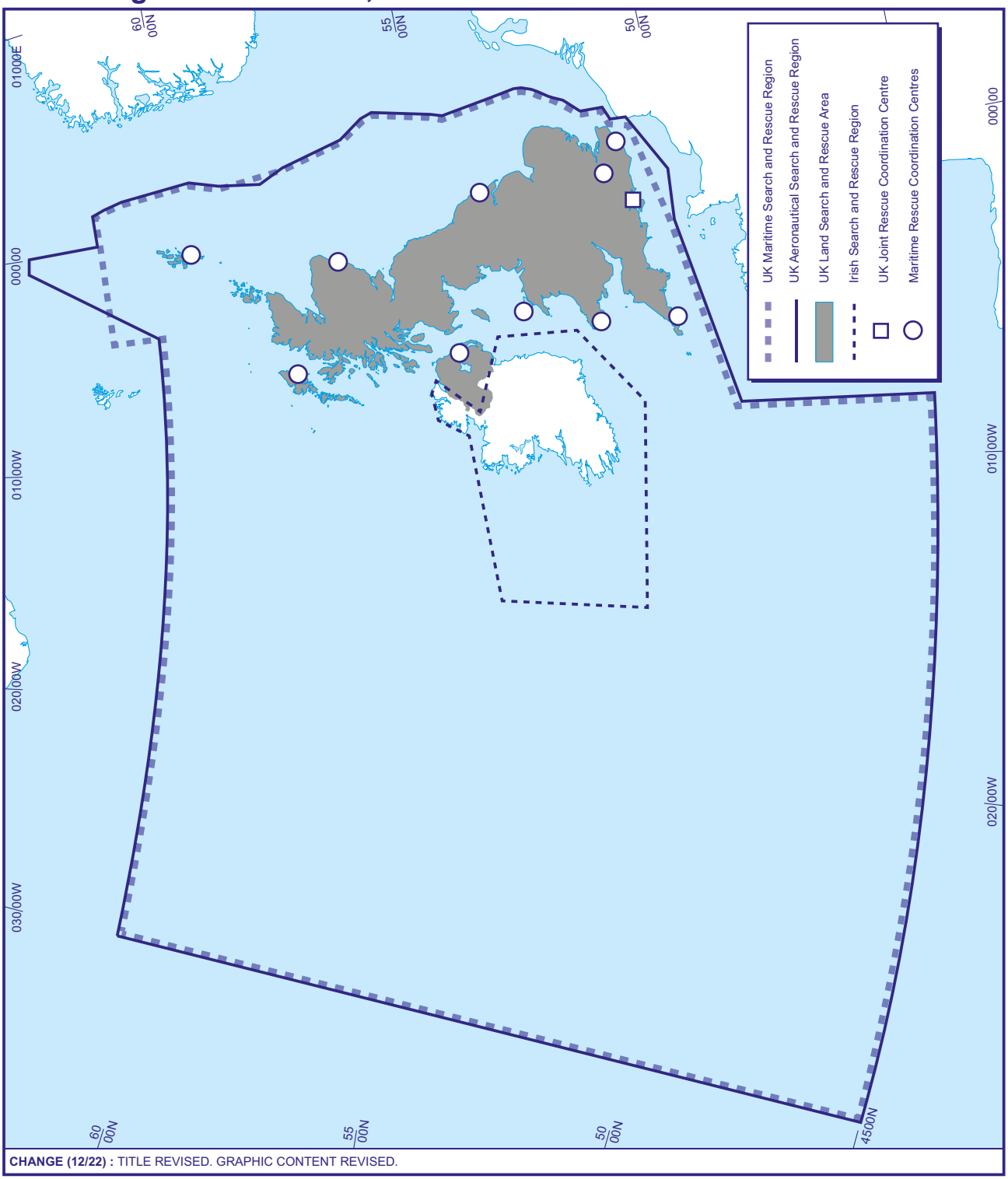
GROUND-AIR VISUAL SIGNAL CODE FOR USE BY RESCUE UNITS

No.	Message	Code Symbol
1	Operation completed	
2	We have found all personnel	
3	We have found only some personnel	
4	We are not able to continue. Returning to base	
5	We have divided into two groups. Each proceeding in direction indicated	
6	Information received that aircraft is in this direction	
7	Nothing found. Will continue to search	

CHANGE (12/22): GRAPHIC UPDATED, NO CONTENT CHANGE.
AERO INFO DATE 07 SEP 22

GEN 3.6 SEARCH AND RESCUE (continued)

UK Region for Maritime, Aeronautical and Land Search and Rescue



CHANGE (12/22) : TITLE REVISED. GRAPHIC CONTENT REVISED.

AERO INFO DATE 07 SEP 22

GEN 3.6 SEARCH AND RESCUE (continued)

UK Maritime Rescue Coordination Centres



CHANGE (12/22): TITLE REVISED. GRAPHIC CONTENT REVISED.

AERO INFO DATE 07 SEP 22

GEN 4 CHARGES FOR AERODROMES/HELIPORTS AND AIR NAVIGATION SERVICES

GEN 4.1 AERODROME/HELIPORT CHARGES

1 Landing charges for UK Aerodromes and Heliports are not established centrally and vary between Aerodrome Operators.

2 Landing of Aircraft

2.1 Charges are generally calculated on the Aircraft's Maximum Total Weight Authorised (MTWA) in accordance with its Certificate of Airworthiness.

2.2 Additional Charges may be levied for:

a) Parking, hangarage and storage of aircraft;
b) passenger load supplements;
c) security;
d) noise related items.

3 Conditions Applicable to the Landing, Parking or Storage of Aircraft

3.1 The conditions under which aircraft may land, be parked, housed or otherwise dealt with, are governed by the Acts of Parliament in respect of certain aerodromes and are established by the aerodrome authority in respect of others.

3.1.1 In general, it is a condition that the Aerodrome Authority shall have a lien on the aircraft, its parts and accessories, for fees and charges which become due and payable, and shall be at liberty, subject to certain provisions, to sell, remove, destroy or otherwise dispose of the aircraft and any of its parts and accessories in order to satisfy any such lien.

3.1.2 To obtain the precise legal terms and conditions of use for any specific aerodrome, reference should be made to the appropriate authorities at that aerodrome.

4 Aerodrome Operators

a) British Airports Authority PLC (BAA)

i. BAA operates London Gatwick, Heathrow and Stansted, and Southampton Airports as subsidiary companies.
ii. The Conditions of Use and Scale of Charges can be obtained from the Finance Departments at the addresses below:

Post: BAA PLC
130 Wilton Road, London SW1V 1LQ
Phone: 020-7834 9449,
Fax: 020-7932 6699,
Telex: 919268 BAAPLC G

Post: Gatwick Airport Ltd
PO Box 29, Horley, Surrey RH6 0YP
Phone: 01293-503249,
Fax: 01293-504700

Post: Heathrow Airport Ltd
Hounslow, Middlesex TW6 1JH
Phone: 020-8745 7970,
Fax: 020-8745 7832

Post: Stansted Airport Ltd
Stansted, Essex CM24 9QW
Phone: 01279-662382,
Fax: 01279-662974

Post: Managing Director
Southampton International Airport Ltd, Southampton Airport, Southampton, Hants SO9 1RH
Phone: 023-8062 9600,
Fax: 023-8062 9300

b) Scottish Airports Ltd

i. Scottish Airports Ltd operates Aberdeen, Edinburgh and Glasgow Airports.
ii. The Conditions of Use and Scale of Charges can be obtained from the Finance Departments at the addresses below:

Post: Scottish Airports Ltd
St Andrew's Drive, Glasgow Airport, Paisley, Renfrewshire PA3 2SW
Phone: 0141-887 1111,

GEN 4.1 AERODROME/HELIPORT CHARGES (continued)

Fax: 0141-887 1669

Post: Aberdeen Airport Ltd
Dyce, Aberdeen AB2 0DU
Phone: 01224-722331,
Fax: 01224-725724

Post: Edinburgh Airport Ltd
Edinburgh EH12 9DN
Phone: 0131-333 1000,
Fax: 0131-335 3181

Post: Glasgow Airport Ltd
Paisley, Renfrewshire PA3 2ST
Phone: 0141-887 1111,
Fax: 0141-848 4586

c) Highlands and Islands Airports Ltd (HIAL)

i. The airports managed by HIAL are:

Barra	Benbecula	Campbeltown	Dundee	Inverness	Islay
Kirkwall	Stornoway	Sumburgh	Tiree	Wick	

ii. The Conditions of Use and Scale of Charges can be obtained from the Finance Department at the address below:

Post: Highlands and Islands Airports Ltd
Head Office, Inverness Airport, Inverness IV2 7JB
Phone: 01667-462445,
Fax: 01667-464216,
Email: hial@hial.co.uk

d) Other Civil Aerodrome Operators

i. The Conditions of Use and Scale of Charges at aerodromes not listed in this section may be obtained on application to the individual aerodrome operators, the addresses of which appear in the AD section.

e) Ministry of Defence (Government Aerodromes)

i. The Ministry of Defence is responsible for RAF Aerodromes, RN Stations and other Government Aerodromes.
ii. The Conditions of Use and Scale of Charges can be obtained from the address below:

Post: Ministry of Defence CS (CTS) 1a, HQ Air Command, RAF High Wycombe, Bucks HP14 4UE
Phone: 01494-461461 Ext 7234,
Fax: 01494-497227

GEN 4.2 AIR NAVIGATION SERVICES CHARGES

1 AERODROME AIR NAVIGATION SERVICE CHARGES

1.1 Charges at London Heathrow, London Gatwick, London Stansted, London City and London Luton.

1.1.1 Consequent to the Civil Aviation Authority (Navigation Services Charges) Specification 2025 the following are the charges payable for navigation services at the aerodromes to which the Specification applies from 1 January 2025.

1.1.2 The operator of every aircraft for which chargeable air services are provided by NERL in connection with an approach to any of London Heathrow, London Gatwick, London Stansted, London City and London Luton aerodromes (whether or not the services are actually used or could be used with the equipment installed in the aircraft), shall pay to NERL a charge calculated according to the following formula:

r = TSU x U

Where **r** is the charge for the flight,
TSU is the terminal service unit relating to that flight, and
U is the unit rate of £17.96.

1.1.3 For the purposes of paragraph 1.1.2 the terminal service unit relating to a flight shall be equal to the weight factor for the aircraft concerned. The weight factor, expressed as a figure taken to two decimal places, shall be the quotient, obtained by dividing by fifty the number of metric tons in the highest maximum certified take-off weight of the aircraft, to the power of 0.7.

1.1.4 For the purposes of paragraph 1.1.3 the highest maximum certified take-off weight of the aircraft is the maximum certified take-off weight of the aircraft as shown in the Aircraft Flight Manual or equivalent document, converted into metric tons where appropriate. Where an aircraft has multiple certified maximum take-off weights, the highest one shall be used. Where the weight factor is unknown, the weight factor shall be calculated by taking the weight of the heaviest aircraft of the same type known to exist.

2 EN-ROUTE AIR NAVIGATION SERVICE CHARGES

2.1 Charges for En-route Navigation Services made available by NATS in the Shanwick Oceanic Control Area

2.1.1 Subject to the provisions of the Civil Aviation Authority (Navigation Services Charges) Specification 2025, the charge payable by the operator of every aircraft (whether or not registered in the United Kingdom) that flies within the Shanwick Oceanic Control Area and in respect of which a flight plan is communicated to the appropriate air traffic control unit is £57.60.

Charges for ADS-B data. The operator of every aircraft (whether or not registered in the United Kingdom) that flies across the Atlantic (formerly NAT) area shall pay to NERL an ADS-B data charge ("the Atlantic data charge") of £38.89 per flight, provided that at the time of the flight the ADS-B service is fully available. The operator of every aircraft (whether or not registered in the United Kingdom) that flies across the Tango area shall pay to NERL an ADS-B data charge of £0.45 per flight provided that at the time of the flight the ADS-B service is fully available. Oceanic Tango flights are defined as flights operating along the length of ATS routes T9 and T290, as defined and promulgated in the UK AIP, within a defined volume of airspace bounded by coordinates 4500N 01000W, 4500N 00845W, 4834N 00845W, 4841N 01000W, 4500N 01000W. Flights that cross both the Atlantic and Tango areas will pay only the Atlantic ADS-B data charge. For the purposes of this Specification, the ADS-B service is fully available as certified by NERL's Board in December 2019, which means that NERL is providing an Automatic Dependent Surveillance-Broadcast-based Oceanic En route Air Traffic Control Service to at least 99% of all users of the En route (Oceanic) Area that have the correct and functioning equipment, regulatory approval and plan to use it.

2.1.2 NATS currently grants dispensations from the Shanwick charges in the following cases:

a) Flights made for the purposes of Search and Rescue operations;
b) flights other than military flights made exclusively for the carriage on official business of a reigning Monarch or his immediate family, a Head of State, a Head of Government or a Government Minister;
c) flights made for the purpose of checking or testing equipment used or intended to be used as aids to air navigation;
d) test flights and flights made exclusively for the purposes of instruction or training of flight crew;
e) flights made by aircraft of which the Maximum Total Weight Authorised is less than 5.7 metric tonnes.

2.2 Charges for the Navigation Services made available by NATS for flights made by Helicopter to a Vessel or Off-shore Installation in the North Sea

2.2.1 Subject to the provisions of the Civil Aviation Authority (Navigation Services Charges) Specification 2025, the charge payable by the operator of every helicopter (whether or not registered in the United Kingdom), which flies from any point within the United Kingdom to a vessel or an off-shore installation within the area described below, is as described in CAA Official Record Series 7.

2.2.1.1 The area is bounded by straight lines joining successively the following points:

6300N 00500W – 632833N 0000000W – thence South along the UK Median Line to 5500N 00302E – 5500N 00100W – 5600N 00230W – 5740N 00230W – 5740N 00400W – 5830N 00400W – 5830N 00500W – 6300N 00500W.

2.2.2 Subject to the provisions of the Civil Aviation Authority (Navigation Services Charges) Specification 2025, the charge payable by

GEN 4.2 AIR NAVIGATION SERVICES CHARGES (continued)

the operator of every helicopter (whether or not registered in the United Kingdom), which flies from any point within the United Kingdom to a vessel or an off-shore installation within the area described below, is as described in CAA Official Record Series 7.

2.2.2.1 The area is bounded by straight lines joining successively the following points:

5500N 00100W – 5500N 00300E – 5423N 00245E – 5256N 00309E – 5230N 00247E – 5226N 00137E – 5238N 00140E – 5251N 00124E – 5319N 00010E – 5500N 00100W.

2.2.3 NATS grants a dispensation from the charge for flights made for the purpose of Search and Rescue operations.

2.3 Eurocontrol

2.3.1 Charges for En-route Navigation Services made available in the Airspace of Member and Contracting States of Eurocontrol.

2.3.1.1 Under a Multilateral Agreement (Cmnd 4916) concluded between the Member States of the European Organization for the Safety of Air Navigation 'EUROCONTROL' (Belgium, France, the Federal Republic of Germany, the Republic of Ireland, Luxembourg, the Netherlands and the United Kingdom), a system of charges for the use of route air navigation facilities and services in the airspace of the Member States of the Organization was introduced on 1 November 1971. A Multilateral Agreement (Cmnd 8662) relating to route charges was concluded at Brussels on 12 February 1981 between the following Contracting States – Austria, Belgium, France, Germany, Ireland, Luxembourg, Netherlands, Portugal, Spain, Switzerland and the United Kingdom. Since then the following States have also signed the Multilateral Agreement – Albania, Armenia, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Finland, Georgia, Greece, Hungary, Italy, Latvia, Lithuania, the Former Yugoslav Republic of Macedonia, Malta, Moldova, Monaco, Montenegro, Norway, Poland, Romania, Serbia, Slovak Republic, Slovenia, Sweden and Turkey.

2.3.1.2 The Civil Aviation Authority (Eurocontrol Charges) Specification 2025, prescribes the charges payable to Eurocontrol by the operator of any aircraft (whether or not registered in the United Kingdom), for which navigation services (not being navigation services provided in connection with the use of an aerodrome) are made available in the airspace comprising the following regions:

- London Flight Information Region;
- London Upper Flight Information Region;
- Scottish Flight Information Region;
- Scottish Upper Flight Information Region.

2.3.1.3 The charges collected in respect of the defined airspace, less the costs of collection, are remitted to the United Kingdom Government by Eurocontrol in accordance with a bilateral agreement (Cmnd 4915).

2.3.1.4 The Specification prescribes that the following flights will not be subject to the United Kingdom charges:

a) Flights by military aircraft;
b) flights made for the purposes of Search and Rescue operations;
c) flights by aircraft of which the Maximum Total Weight Authorised is 5700 KG or less made entirely in accordance with the Visual Flight Rules in the Rules of the Air (SERA.5005 and SERA.5010)(c);
d) flights terminating at the aerodrome from which the aircraft has taken off;
e) flights other than the flights referred to in (a) of this paragraph made exclusively for the purpose of the carriage on official business of a reigning Monarch or his immediate family, a Head of State, a Head of Government or a Government Minister;
f) flights made exclusively for the purpose of checking or testing equipment used or intended to be used as aids to air navigation;
g) flights made exclusively for the purposes of the instruction or testing of flight crew within the specified airspace of the United Kingdom;
h) flights made by aircraft of which the Maximum Total Weight Authorised is less than two metric tonnes;
i) flights made by helicopters from any point in the United Kingdom to a vessel or an off-shore installation within the area bounded by straight lines joining successively the following points:

   6300N 00500W – 632833N 0000000W – thence South along the UK Median Line to 5500N 00302E – 5500N 00100W – 5600N 00230W – 5740N 00230W – 5740N 00400W – 5830N 00400W – 5830N 00500W – 6300N 00500W.

j) flights made by helicopters from any point in the United Kingdom to a vessel or an off-shore installation within the area bounded by straight lines joining successively the following points:

   5500N 00100W – 5500N 00300E – 5423N 00245E – 5256N 00309E – 5230N 00247E – 5226N 00137E – 5238N 00140E – 5251N 00124E – 5319N 00010E – 5500N 00100W.

2.3.1.5 Further information concerning the Eurocontrol Route Charges System may be obtained from:

Post: Eurocontrol
Central Route Charges Office
Rue de la Fusee, 96
B-1130 - Brussels
BELGIUM
Phone: 00-32-2-729 9011

GEN 4.2 AIR NAVIGATION SERVICES CHARGES (continued)

Fax: 00-32-2-729 9094

3 METHODS OF PAYMENT

3.1 Aerodrome, North Sea Helicopter and Shanwick Charges

3.1.1 Navigation Service charges are invoiced to the aircraft operators, and are payable to:

Post: NATS (En Route) Plc
Accounts Receivable, 2nd Floor, Citypoint
65 Haymarket Terrace
Edinburgh
EH12 5HD

3.2 Eurocontrol Charges

3.2.1 The charges prescribed in the Specification are payable in euros to Eurocontrol at its principal office in Brussels. Arrangements have been made under which United Kingdom citizens and companies registered in the United Kingdom may pay either in sterling or euros into a Eurocontrol bank account in the United Kingdom. Other operators, who are nationals of a Member State of Eurocontrol may pay the charges in euros or their national currencies in the State of which they are nationals. Arrangements have also been made that will enable operators, who are not nationals of a Member State, to pay the charges in euros into bank accounts designated by Eurocontrol in any of the Member States.

3.3 Value Added Tax

3.3.1 The charges quoted herein are exclusive of any Value Added Tax which may be chargeable in accordance with the provisions of the Finance Act 1972 or with any Orders or Regulations made thereunder or by virtue of any Act replacing or amending the same.

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PART 2 EN-ROUTE (ENR)

ENR 0

When applicable the following chapters are left blank: ENR 0.2, ENR 0.3, ENR 0.4, ENR 0.5, ENR 0.6

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ENR 1 GENERAL RULES AND PROCEDURES

ENR 1.1 GENERAL RULES

1 ATS Routes and Upper Control Areas (UTA)

1.1 ATS Routes — Description

1.1.1 ATS Routes are predicated upon significant geographical points which may or may not coincide with the location of a radio navigation aid. These significant points are shown in column 1 of the table depicted in ENR 3. Any coincident radio navigation aid is depicted immediately underneath.

1.1.2 Except where stated otherwise the width of an Airway is 5 NM either side of a straight line joining each two consecutive points shown in column 1 of the table. Upper ATS Routes have no declared width but for the purposes of ATS provision are deemed to be 5 NM either side of a straight line joining each two consecutive points. The vertical extent is shown in column 3 of the table. Where lower limits of Airways are defined as Flight Levels an absolute minimum altitude of 3001 FT applies unless otherwise stated in column 3 and the minimum cruising level shown in column 5 may not always be available.

1.1.3 Unless otherwise stated the ATS Routes catalogued in the table in ENR 3 are designed to contain aircraft navigating to RNAV 5 (ICAO DOC 9613 - AN/937 refers).

1.1.4 The ATS Route network is hereby notified for the purposes of the UK Air Navigation Order.

1.1.5 When an ATS Route transits a TMA, the status of the TMA takes precedence in airspace classification and conditions of use. Aircraft filed to fly on an ATS route that transits a TMA are required to be a minimum of RNAV 5 compliant.

1.1.6 CDR - A route which is permanently plannable during the times published in ENR 3 and may be used tactically at the discretion of ATC. Conditional routes (CDRs) are non-permanent ATS routes. They are designed to complement the permanent ATS route network and to allow flights to be planned on ATS routes, or portions thereof, that are not always available.

In the ATS route tables hereafter the CDR category is indicated under “Route availability” as “CDR” and is permanently plannable during the times published in the AIP. Due to military or other activities, the route may be closed. The unavailability is published daily in the EAUP/EUUP (European airspace use plan/European updated airspace use plan) in table “ATS Route and CDR Type 1 Closure”. The EAUP/EUUP is published on the Network Portal (NOP): https://www.public.nm.eurocontrol.int/PUBPORTAL/. In the event of a short notice unavailability of a CDR, rerouting around an associated AMC-Manageable Area will be made on ATC instructions.

1.1.7 In addition to published ATS routes, specific direct (DCT) options are allowed via the RAD Appendix 4. Specified DCT routes connecting the Reykjavik/Scottish boundary points and the UK Upper ATS route network should be used when flight planning to cross 61N between 000E and 006W.

1.2 ATS Route Designators

1.2.1 In accordance with ICAO Annex 11, the following prefix designators are used to indicate European Regional RNAV Routes, L, M, N, P and for non Regional RNAV Routes Q, T, Y, Z. Routes designated with these prefixes are compulsory RNAV at all levels except when otherwise notified.

1.3 Free Route Airspace

1.3.1 Free Route Airspace (FRA) is a volume of airspace in which the ATS route structure has been removed allowing operators to flight plan any DCT route option of their choosing between specific FRA entry/exit/arrival/departure and published intermediate waypoints.

FRA lateral and vertical limits are included in ENR 2.2 and depicted at ENR 6-70.

1.4 Airspace Security Warnings by the Department for Transport

1.4.1 **Introduction**

1.4.1.1 Security advice to UK air operators by government is issued in the form of a NOTAM to provide guidance or direction on airspace security risks. Longer term, ongoing warnings are included within the UK Aeronautical Information Publication (AIP). The DfT has developed an Airspace Security Warning Protocol that culminates in the issue of an airspace security warning as V Series NOTAM. Most of these NOTAMs will relate to potential risks to civil aircraft from surface-to-air missiles. However, the use of a NOTAM could also be for other security related threats that may arise.

1.4.2 **Information**

1.4.2.1 The opening text of the NOTAM takes the form: “SECURITY - HAZARDOUS SITUATION [COUNTRY/IES]”. The NOTAM will clearly specify the particular FIR(s) affected, and, where appropriate, give more precise details of the geographic area of concern, using coordinates, or by other means of demarcation (e.g. “...IN THE xxxx FIR, EAST OF 0310000E”). This will be followed by a

ENR 1.1 GENERAL RULES (continued)

brief description of the type of threat, e.g. “POTENTIAL RISK FROM ANTI-AIRCRAFT WEAPONRY”.

1.4.2.2 Where the potential risk is from Man-Portable Air Defence Systems (MANPADS), there is likely to be a restriction on flying below 25,000 FT AGL. Where there is a potential threat from air defence systems with a greater operational ceiling, this is likely to be 'Surface to Unlimited'. In the case of a threat from missiles, it is possible to extend their effective ceiling by launching from elevated terrain. For that reason, most height restrictions stated in an airspace security risk NOTAM will be noted as ‘Above Ground Level’ (AGL).

1.4.3 **Guidance**

1.4.3.1 Following the information on location and threat, there will (usually) be one of 3 forms of wording employed in expressing DfT’s guidance to operators:

a) “UK CIVIL AIR OPERATORS ARE ADVISED TO TAKE POTENTIAL RISK INTO ACCOUNT [IN FIR NAME] / WITHIN THE TERRITORY AND AIRSPACE OF [COUNTRY]”.
b) “UK CIVIL AIR OPERATORS ARE RECOMMENDED NOT TO ENTER THE [FIR NAME] / TERRITORY AND AIRSPACE OF [COUNTRY]”.
c) “IN ACCORDANCE WITH DIRECTION UNDER THE AVIATION SECURITY ACT 1982 UK CIVIL AIR OPERATORS SO SERVED ARE PROHIBITED TO ENTER THE [FIR NAME] / TERRITORY AND AIRSPACE OF THE STATE OF [COUNTRY]”.

1.4.3.2 The wording will generally follow the patterns above, but could vary as, e.g., it may not always be possible to specify the precise nature of a potential security risk to aircraft, or, the geographic area may be complex to describe.

1.4.3.3 DfT will review the content of the NOTAM 60 days from the date of issue, 30 days prior to its expiry. Due to the evolving and fluid nature of many conflicts, NOTAMs may be extended for a further 90 days if appropriate. Advice which is to remain in place beyond this will in most cases be moved into the AIP..

1.4.3.4 UK civil air operators planning to operate in airspace covered by DfT NOTAMs or AIP entries are strongly encouraged to contact DfT in advanced of operating to ensure they have the latest available information to inform the air carriers own risk assessment.

1.4.3.5 Queries can be made to:

Global Risk & Response Team, Aviation Security Division: +44 (0)207-082 6639, Mon-Fri 0830-1630 (0730-1530);
If urgent, out of hours the Aviation Security Duty Officer can be contacted via +44 (0)207-944 3111.

1.4.4 **International Co-ordination**

1.4.4.1 The International Civil Aviation Organisation (ICAO) has established a website from which links are available to relevant information from any participating State source to support the assessment of risks over conflict zones. As part of the UK’s contribution to this ICAO initiative, all UK NOTAMs relating to conflict zone issues will be made available on the AIS Website, to which a link will be provided from the ICAO website.

1.4.4.2 It is possible that other States’ advice may differ from that provided by the UK. UK NOTAMs or AIP entries concerning conflict zones represent the best advice available from UK Government sources in support of airline risk assessments. Nonetheless, if operators are concerned about advice from other States that conflicts with, or does not align with, that issued by the UK they should contact DfT on the numbers provided above.

1.4.5 **Current Airspace Warnings**

Serial	Location	Text	Lower Altitude	Upper Altitude	Date of Issue
1	Afghanistan	**Security - Hazardous Situation in Afghanistan** UK civil air operators are recommended not to enter FIR KABUL (OAKX) below 25,000 FT above ground level (AGL). Potential risk from anti-aircraft weaponry. Excluded from this recommendation are airways P500 and G500 for transiting overflights.	Surface	25,000 FT AGL	08 Oct 15
2	(Gulf of) Aqaba	**Security - Hazardous Situation in Gulf of Aqaba** UK civil air operators are advised to take risk into account when operating up to 150 NM from the centre point of the Gulf of Aqaba (calculated to be 284536N 344236E) due to potential risk from heightened military activity.	Surface	Unlimited	26 Dec 24

ENR 1.1 GENERAL RULES (continued)

3	Belarus	**Security - Hazardous Situation in Belarus** UK civil air operators are recommended not to enter FIR MINSK (UMMV). Potential safety and security risks.	Surface	Unlimited	24 Jan 22
4	Iran	**Security - Hazardous Situation in Iran** UK civil air operators are recommended not to enter FIR TEHRAN (OIIX). Potential risk from anti-aircraft weaponry and heightened military activity.	Surface	Unlimited	03 Oct 24
5	Haiti	**Security - Hazardous Situation in Haiti** UK civil air operators are recommended not to enter FIR PORT-AU-PRINCE (MTEG) below 10,000 FT AGL due to potential risk to aviation from small arms fire.	Surface	10,000 FT AGL	15 Nov 24
6	Iraq	**Security - Hazardous Situation in Iraq** UK civil air operators are recommended not to enter FIR BAGHDAD (ORBB) below FL 320. Potential risk from anti-aircraft weaponry.	Surface	FL 320	12 Sep 22
7	Libya	**Security - Hazardous Situation in Libya** In accordance with Direction under the Aviation Security Act 1982, UK civil operators so served are prohibited to enter FIR TRIPOLI (HLLL) / the territory and airspace of the State of Libya. Potential risk from anti-aircraft weaponry. UK operators not currently subject to direction under the Aviation Security Act should contact UK Department for Transport (DfT) before operating in this area.	Surface	Unlimited	12 Jun 15
8	Mali	**Security - Hazardous Situation in Mali** UK civil air operators are advised to take potential risk into account within FIR NIAMEY (DRRR) and FIR DAKAR (GOOO) within the territory and airspace of Mali. Potential risk from anti-aircraft weaponry.	Surface	Unlimited	17 Mar 23
9	Myanmar	**Security - Hazardous Situation in Myanmar** UK civil air operators are advised to take potential risk into account when operating below 25,000 FT above ground level (AGL) in FIR YANGON (VYYF). Potential risk from anti-aircraft weaponry.	Surface	25,000 FT AGL	15 May 25
10	North Korea / Sea of Japan	**Security - Hazardous Situation in North Korea / Sea of Japan** UK civil air operators are recommended not to enter FIR PYONGYANG (ZKKP) and are advised to take potential risk into account over the Sea of Japan (within the geographical coordinates of 1280000E and 1400000E degrees of longitude). Potential risk from unannounced missile tests.	Surface	Unlimited	23 Aug 17
11	Red Sea	**Security - Hazardous Situation in the Red Sea** UK civil air operators are advised to take potential risk into account when operating over the waters of the Red Sea due to potential risk from heightened military activity.	Surface	Unlimited	26 Dec 24
12	Somalia	**Security - Hazardous Situation in Somalia** UK civil air operators are recommended not to enter FIR MOGADISHU (HCSM) below 25,000 FT above ground level (AGL). Potential risk from anti-aircraft weaponry.	Surface	25,000 FT AGL	15 Jan 16

ENR 1.1 GENERAL RULES (continued)

13	Sudan	**Security - Hazardous Situation in Sudan** UK civil air operators are recommended not to enter FIR KHARTOUM (HSSS) within the territory and airspace of Sudan. Potential risk from anti-aircraft weaponry and heightened Military activity.	Surface	Unlimited	21 Apr 23
14	South Sudan	**Security - Hazardous Situation in South Sudan** UK civil air operators are advised to take potential risk into account within FIR KHARTOUM (HSSS) within the territory and airspace of South Sudan below 25,000 FT above ground level (AGL). Potential risk from anti-aircraft weaponry.	Surface	25,000 FT AGL	12 Jun 15
15a	Syria	**Security - Hazardous Situation in Syria** In accordance with Direction under the Aviation Security Act 1982, UK civil operators so served are prohibited to enter FIR DAMASCUS (OSTT) / territory and airspace of the Syrian Arab Republic. Potential risk from anti-aircraft weaponry. UK operators not currently subject to direction under the Aviation Security Act should contact UK Department for Transport (DfT) before operating in this area.	Surface	Unlimited	12 Jun 15
15b	(Vicinity of) Syria	**Security - Hazardous Situation in Vicinity of Syria** UK civil air operators are advised to take potential risk into account when operating up to 200 NM outside FIR DAMASCUS (OSTT). Potential risk from anti-aircraft weaponry.	Surface	Unlimited	22 Oct 18
16	Ukraine	**Security - Hazardous Situation in Ukraine** In accordance with Direction under the Aviation Security Act 1982, UK registered air operators so served are prohibited to enter FIR LVIV (UKLV), FIR SIMFEROPOL (UKFV), FIR ODESA (UKOV), FIR KYIV (UKBV) and FIR DNIPROPETROVSK (UKDV) / territory and airspace of Ukraine. Potential risk from anti-aircraft weaponry and heightened military activity. UK operators not currently subject to direction under the Aviation Security Act should contact UK Department for Transport (DfT) before operating in this area.	Surface	Unlimited	24 Feb 22
17	Yemen	**Security - Hazardous Situation in Yemen** UK civil air operators are recommended not to enter FIR SANAA (OY-SC). Potential risk from anti-aircraft weaponry. Excluded from this recommendation are airways N315, UL425 and R401.	Surface	Unlimited	08 Sep 15

1.5 Flight Planning Restrictions

1.5.1 Flight planning restrictions applicable to UK airspace are published within the **DNM RAD (a pre-flight ATFCM Tool)**. UK restrictions are contained within the UK Annex (Annex EG) as well as Appendices 2, 3, 4, 5 and 6 which can be found via the DNM NOP Portal website within the RAD Home page section -

https://www.nm.eurocontrol.int/RAD/

1.5.1.1 Changes to the RAD are published in line with the AIRAC cycle. Any changes required between AIRAC Cycle publication dates, due to urgent operational reasons, will be notified by NOTAM.

1.5.1.2 Operators should refer to the RAD and its various appendices when constructing routes for an IFR flight within or overflying UK airspace.

1.5.2 For information on standard routings within UK airspace, and alternative routings during CDR closures, users should refer to the **United Kingdom & Ireland Standard Route Document (SRD)** as published via the UK AIS CD-ROM (bespoke database and Adobe PDF formats) or via the DNM NOP Portal RAD Homepage within the 'Additional Documentation' section.

1.5.2.1 The United Kingdom & Ireland SRD is issued in line with the AIRAC cycle and is available to assist aircraft operators in constructing RAD compliant UK and Irish portions of IFR flight plannable routes. The route listings contained should be considered as 'preferred'

and are not mandatory, however they are promulgated to identify optimum routings for operators with due regard for the ATC system. Reference may be made to applicable RAD restrictions for a route, details of which may be found via the DNM NOP Portal RAD Home page website.

1.5.3 Temporal flight planning buffers are added to Special Use Airspace (SUA) activation times in order to allow for flights departing late (or early) on their scheduled ETD. The parent Area Control Centre Airspace Management Cell (AMC) define the buffer requirement and parameters during the airspace planning phase of Airspace Management.

When SUA areas are active, the AUP published activation time includes temporal buffer at the start and end of the activity. No extra buffer is required for flight planning purposes. SUA activation NOTAM define the actual parameters of the activity and do not include any element of a temporal flight planning buffer, therefore the NOTAM start and end time of the actual activity will be different to the AUP times.

1.6 Rules and Procedures

1.6.1 **Control Areas (Airways)**

1.6.1.1 **Radio Communications and Equipment**

1.6.1.1.1 The requirements for radio communications and equipment are set out in GEN 1.5.

1.6.1.2 **ATC Clearance**

1.6.1.2.1 One of the following phrases may be included in the initial clearance when the air traffic situation necessitates the regulation of departing flights:

a) 'Clearance expires ..... (time)' - this indicates that if the aircraft is not airborne by the time stated, a fresh clearance will need to be obtained;
b) 'Take-off not before ..... (time)' - this is given so that the pilot can calculate the best time to start engines;
c) 'Unable to clear ..... (level planned)' - when ATC is unable to clear the flight at the level planned an alternative will be offered whenever possible, the acceptance of which will avoid or reduce delay;
d) 'Join Airways at ..... (place and level) not before ..... (time)' - may be used when an Airways clearance is given to an aircraft, the first part of whose flight from the origination aerodrome is in uncontrolled airspace.

1.6.1.3 **Airborne Procedures (See also ENR 1.4, paragraph 2.1, Note 2)**

1.6.1.3.1 When an aircraft is cleared to leave or join an Airway at a certain point, it should be flown so as to cross the actual boundary of the Airway as near to that point as is practicable.

1.6.1.3.2 All aircraft flying Airways are required to adhere to IFR procedures in all weather conditions. However, when radar cover is not available ATC may offer VMC climb or descent clearances in order to avoid excessive traffic delays. Such clearances will be offered subject to the following:

a) By day only in Visual Meteorological Conditions;
b) subject to the agreement of the pilot concerned;
c) the pilot will be responsible for effecting his own separation;
d) essential traffic information will be given;

1.6.1.3.3 Unless otherwise authorized by ATC, aircraft flying along Airways are required, in so far as practicable, to operate along the defined centre-line.

1.6.1.4 **Flights Joining Airways**

1.6.1.4.1 Pilots wishing to join an Airway are required to file a flight plan either before departure or when airborne, and to request joining clearance when at least 10 minutes flying time from the intended joining point. If the destination or any part of the route is subject to Air Traffic Flow Management, pilots must have received the required authorisation/approval from the appropriate Air Traffic Flow Management Unit (ENR 1.9).

1.6.1.4.2 Joining clearance should be obtained as follows: Initial call - '..... (identification) request joining clearance ..... (Airway) at ..... (position)'. When instructed by ATC the following flight details should be passed:

a) Identification;
b) Aircraft type;
c) Position and heading;
d) Level and flight conditions;
e) Departure aerodrome;
f) Estimated time at entry point;
g) Route and point of first intended landing;
h) True Airspeed;
i) Desired level on Airway (if different from the above).

ENR 1.1 GENERAL RULES (continued)

1.6.1.4.3 Requests for joining clearance of Airways for which the Controlling Authorities are London or Scottish Control should be obtained as follows:

a) From the ATSU with which the aircraft is already in communication; or
b) from the appropriate FIR Controller (if different from (a)); or, if it is not possible to obtain any form of clearance using (a) or (b), then
c) on the published frequency of the Airway Controlling Authority.

1.6.1.4.4 In order to prevent confliction with other Airways traffic, pilots should ensure that they are at the cleared flight level when they cross the Airway boundary, unless specific permission to do otherwise has been given by ATC.

1.6.1.5 **Flights Crossing Airways in IFR**

1.6.1.5.1 Pilots wishing to cross an Airway are required to file a flight plan either before departure or when airborne, and to request crossing clearance when at least ten minutes flying time from the intended crossing point.

1.6.1.5.2 Crossing clearance should be obtained as follows: Initial call - '..... (identification) request crossing ..... (Airway) at ..... (position)'. When instructed by ATC the following flight details should be passed:

a) Identification;
b) Aircraft type;
c) Position and heading;
d) Level and flight conditions;
e) Position of crossing;
f) Requested crossing level;
g) Estimated time of crossing.

1.6.1.5.3 Requests for joining clearance of Airways for which the Controlling Authorities are London or Scottish Control should be obtained as follows:

a) From the ATSU with which the aircraft is already in communication; or
b) from the appropriate FIR Controller (if different from (a)); or, if it is not possible to obtain any form of clearance using (a) or (b), then
c) on the published frequency of the Airway Controlling Authority.

1.6.1.5.4 Unless otherwise requested by ATC, aircraft crossing Airways will remain in communication with the FIR Controller and, after obtaining clearance, will report as follows when the aircraft is estimated to be at the boundary of the Airway:

'..... (identification) - Crossing ..... (Airway) ..... (position) ..... (time) ..... at ..... (level)'.

1.6.1.5.5 Except where otherwise authorized by ATC, aircraft are required to cross the Airway by the shortest route (normally, at right angles) and to be in level flight at the cleared flight level on entering the Airway.

1.6.1.6 **Airway Crossings or Penetrations in VMC - Civil Aircraft**

1.6.1.6.1 **Powered Aircraft - Airway Crossings (See also ENR 1.4, paragraph 2.1, Note 2)**

1.6.1.6.1.1 Powered aircraft may cross an Airway in VMC by day without compliance with the full IFR requirements in relation to the aircraft equipment provided that the pilot holds a valid Instrument Rating and that clearance is obtained from the appropriate ACC. This clearance must be obtained by RTF (normally on the FIR frequency); the request for clearance and a crossing report should be made as shown in paragraphs 1.4.1.5.3 and 1.4.1.5.5.

1.6.1.6.2 **Powered Aircraft - Other penetrations of Airways (see also ENR 1.1, paragraph 4.1 and ENR 1.4, paragraph 2.1, Note 2).**

1.6.1.6.2.1 Other flights in VMC, for example photographic survey flights, may also do so without compliance with full IFR requirements, provided that:

a) Prior arrangements are made with the appropriate ACC;
b) specific ATC clearance is obtained for individual flights;
c) the aircraft can communicate by RTF on the appropriate Airways frequency.

1.6.1.7 **Procedures for Military Aircraft**

1.6.1.7.1 These procedures apply to military aircraft in all weather conditions.

1.6.1.7.1.1 Military aircraft flying along Airways will conform to the normal Airways procedures.

1.6.1.7.1.2 Military aircraft crossing Airways will do so either:

a) Under the control of an approved Air Traffic Control Radar Unit; or
b) under a positive Air Traffic Control Clearance.

ENR 1.1 GENERAL RULES (continued)

1.6.1.7.1.3 In an emergency, where neither a radar nor a procedural crossing can be obtained, an Airway may be crossed at an intermediate 500 FT level. The intermediate 500 FT levels referred to are flight levels of whole thousands plus 500 FT.

1.6.2 **Air Traffic Advisory Routes**

None are currently established by the UK.

1.6.3 **The Upper Airspace Control Area**

1.6.3.1 **Rules.** The following rules apply to aircraft flying in the Upper Airspace Control Area:

A flight plan must be filed; ATC permission must be obtained before the Area is entered; a continuous RTF watch must be kept on the appropriate frequency; the flight must be conducted in accordance with ATC instructions.

1.6.3.1.1 **Altimeter Setting Procedures**

1.6.3.1.1.1 All aircraft flying in the Upper Airspace Control Area must use the standard altimeter setting of 1013.2 mb.

1.6.3.1.2 **Cruising Levels**

1.6.3.1.2.1 Cruising levels will be allocated in accordance with the semi-circular rules depicted in the Table of Cruising Levels at ENR 1.7, paragraph 6. ATC may allocate a level not appropriate to the aircraft track, e.g. to effect transition to and from Oceanic levels.

1.6.3.1.2.2 The providers of Air Traffic Services in the United Kingdom Upper Airspace may apply a reduced vertical separation minimum of 1000 FT, between FL 290 and FL 410 inclusive, in the London and Scottish UIRs between aircraft that are RVSM approved. Aircraft that are not RVSM approved will be provided with a minimum of 2000 FT separation.

1.6.3.1.3 **Exemptions**

1.6.3.1.3.1 By prior agreement, Research and Development flights may be exempted from some of the rules and procedures but ATC will co-ordinate such flights.

1.6.3.1.3.2 The above rules and procedures do not apply to gliders.

1.6.3.1.3.3 By prior agreement, civil aircraft operating on contract to the MoD, aircraft undergoing air tests, or aircraft calibrating navigation aids may be exempted from the RVSM requirements.

1.6.3.2 **Co-ordination of Civil and Military Aircraft**

1.6.3.2.1 NATS radars cover most of the Upper Airspace. Within this cover, procedures exist for the co-ordination of civil and known military aircraft and they receive a radar control and/or a procedural ATC Service. Outside radar cover, a procedural ATC service is provided.

1.6.3.2.2 Military aircraft are normally under the control of NATS or autonomous radar Units but outside the Mandatory Radar Service Area, they are not obliged to receive an ATC Service. In these circumstances it is not always possible for ATC to offer avoiding action because the behaviour of such aircraft is unpredictable. However, whenever practicable, ATC will pass traffic information on them to aircraft under control.

1.6.3.2.3 Due to the routine operation of high-speed military aircraft within the UIRs, civil aircraft operators should flight plan only on the published ATS Route Structure when operating outside the FRA volume as defined in ENR 2.2. When traffic conditions permit, ATC may authorize aircraft to fly more direct tracks. When planning through FRA, operators shall avoid active SUAs and associated FBZs and NPZs at their discretion unless specific routings are mandated: See ENR 1.10 Sect 3.

1.6.3.2.3.1 For individual flights within the Scottish UIR and outside the area defined for FRA operations, operators may file outside the published ATS Route Structure subject to authorisation by the Scottish ACC ATC Watch Manager (Tel: 01292-692763, Fax: 01292-692872). Authorisation for routine operations outside the published ATS Route Structure must be obtained from ATC Operational Support at Scottish ACC (Tel: 01292-692611, Fax: 01292 - 692610).

1.6.3.2.4 There is a military TACAN route system in the Upper Airspace. Some of the routes join the published Upper ATS Route Structure at certain reporting points as well as to a similar TACAN route network over the rest of Europe. See chart of the military TACAN routes at ENR 6-72.

1.6.3.3 **Non-Standard Civil Flights and Unusual Aerial Activities in the UK Upper Airspace**

1.6.3.3.1 Certain civil flying activities such as training and general test flying in Class C Airspace above FL 195 may require a specialized radar service that can best be provided by military ATS Units. However, it should be borne in mind that the aircraft handling capacity of military ATS Units may be committed to the Units primary tasks, and therefore, it is advisable that aircraft operators re-

quiring a service should discuss their proposed task with the relevant ATS Unit prior to commencement of the flight.

1.6.3.3.2 Information concerning the military ATS Units may be obtained from the RAF en-route documents or from civil ATS Units.

1.6.3.3.3 The approval of an Unusual Aerial Activity (UAA) in Class C Airspace above FL 195 can often only be given after extensive co-ordination and the request should be submitted at the earliest opportunity to Airspace Regulation (Utilisation) (AR(U)), Airspace Regulation, Aviation House, Gatwick RH6 0YR, as detailed at ENR 1.1, paragraph 4.3.

1.6.3.4 **Flight Plans, ATC clearance and other procedures**

The normal requirements for flight plans, ATC clearance, and the regulations, rules and procedures appropriate for flight in Control Areas apply.

1.6.3.4.1 **Night Time Fuel Saving Routes**

1.6.3.4.1.1 Night Time Fuel Saving Routes (NTFSR) are introduced in UK upper airspace, excluding airspace defined as FRA, and are routes that formalise the practice of giving flight plannable direct routings (DCT) to GAT at set times overnight. NTFSR will enable the proportion of flights flying direct to increase during their hours of operation and will thereby produce a reduction in CO_2 emissions. Details of the routes will be included in Appendix 4 of the UK RAD.

1.6.3.4.2 **Loss of Communication**

1.6.3.4.2.1 In the event of radio communication failure, pilots will follow the procedures shown at ENR 1.1, paragraph 3.4. Attempts should also be made to establish communication on other control channels available in the Scottish FIR/UIR or on NARTEL HF channels.

1.6.3.5 **Military Training Areas (MTA)**

1.6.3.5.1 MTAs are established in the UK for the operational freedom of military aircraft engaged in exercise or training, and the nature of this activity is incompatible with civil air traffic services procedures. Civil pilots should not therefore flight plan any route through active MTAs nor make in-flight requests for transit through these areas when they are active as ATC cannot authorise such flights. However, for the following categories of civil registered aircraft, an ATS may be available within an active MTA from the appropriate military air traffic control radar unit:

a) Aircraft in emergency which may have to be routed through an active MTA for flight safety reasons;
b) aircraft sponsored by DE&S;
c) test flights by UK manufacturers of military and civilian aircraft;
d) airtests by civil or military aircraft departing from or arriving at UK aerodromes;
e) special flights authorised by HQ AIR (ATM Force);
f) air ambulance flights, where the most expeditious routing is justifiable on humanitarian grounds.

Note 1: *Pilots of such aircraft requiring this service should make their request to the UK Civil ATS Unit or Military Unit with which they are in contact.*

Note 2: *Military controllers may provide aircraft in the above categories with UK Flight Information Services (UK FIS) (radar services detailed in ENR 1.6, paragraph 1.3) and pilots are to ensure that they are familiar with the types of services available.*

1.6.3.5.2 If pilots inadvertently flight plan to transit MTAs during notified periods of activity, ATS instructions will be issued to re-route the aircraft around those areas. To avoid such unexpected routing, pilots are requested to ensure that account is taken of the published periods of activity of any MTA near the route (detailed in ENR 5.2), when planning their flight.

1.6.3.5.3 MTAs are depicted on the charts at ENR 6-70 and ENR 6-75.

1.6.3.6 **North Sea Reduced Co-Ordination Area**

1.6.3.6.1 The North Sea Reduced Co-ordination Area (RCA) has been established within UK Upper Airspace to optimise airspace availability as a result of tactical handbacks of any portion of the EGD323 complex. As a result, direct point to point routings may be offered when airspace structures permit that would not normally allow the availability of a published CDR. The co-ordination requirements between OAT and GAT follow those set out within CAP 1430 and the Eurocontrol Airspace Management Handbook which are detailed within an LOA between the MOD and NATS.

1.6.3.6.2 Description of lateral and vertical dimension of the North Sea RCA are contained within ENR 2.2 and depicted in ENR 6.

1.6.3.7 **FRA Reduced Co-Ordination Area**

1.6.3.7.1 The FRA Reduced Co-ordination Area (RCA) has been established within UK upper airspace. The lateral and vertical dimension of the FRA RCA match that of the EGPX FRA area and are contained within ENR 2.2 and depicted in ENR 6-70.

1.7 Reporting Points

1.7.1 Compulsory Reporting Points are marked with a ▲. Reporting Points marked with a ∆ are 'on request' Reporting Points, at which

ENR 1.1 GENERAL RULES (continued)

a report will be made only when requested by the controlling authority.

1.8 Terrain Clearance

1.8.1 **Control Areas (Airways)**

1.8.1.1 Where the lower limit of a section of an Airway is defined as a Flight Level and therefore varies in height, an absolute minimum altitude applies. This minimum altitude for the Airway base is at least 1000 FT above any fixed obstacle within 15 NM of the centre-line. The lowest usable level will always be at least 500 FT above the Airway base, thus providing not less than 1500 FT terrain clearance within 15 NM of any position on the centre-line of the Airway.

1.8.1.2 On sections of Airways adjacent to Control Zones and Areas where the lower limit is established at not less than 700 FT above terrain, ATC clearances are designed to enable aircraft to remain at least 500 FT above the base of the Airway.

1.9 En-Route Holding

1.9.1 **Control Areas (Airways)**

1.9.1.1 Except where otherwise instructed by ATC, holding en-route will be carried out on tracks parallel to the centre-line of the Airway, turning right at the Reporting Point. Exceptions are shown at ENR 3.6.

1.9.1.2 Whenever possible, pilots will be given a specific time at which to leave the Reporting Point and the holding pattern should be adjusted accordingly.

1.9.1.3 Pilots are required to report as follows:

a) The time and level of reaching a specific holding point to which cleared;
b) when leaving a holding point;
c) when vacating a previously assigned level for a new assigned level.

1.9.2 **En-Route High Level Holding**

1.9.2.1 Within the Upper Airspace, en-route holding patterns have been established. The 1.5 minute holding patterns, based on ICAO recommended speeds, are as shown at ENR 3.6.

1.10 Hazards and Danger Areas

1.10.1 **The Upper Airspace Control Area**

1.10.1.1 The Chart of the United Kingdom Airspace Restrictions at ENR 6-75 (as amended), NOTAM and AICs should always be consulted for information on activity in Danger Areas adjacent to the route being flown.

1.11 Glider Operations above FL 195

1.11.1 The paragraphs below set out the procedures for glider operations above FL 195 within the following airspace structures:

a) Temporary Reserved Area (Gliding) (TRA (G)) in Class C Airspace between FL 195 - FL 240 (ENR 5-2-4/7);
b) Temporary Reserved Area (Gliding) (TRA (G)) in Class C Airspace above FL 240 (ENR 5-2-4/7);
c) Temporary Reserved Area (TRA) in Class C Airspace between FL 195 and FL 245 (ENR 5-2-2/3);
d) Class C Airspace outside TRA and TRA (G) between FL 195 - FL 285.

1.11.2 Glider operations above FL 195 are to be conducted only in accordance with the following criteria:

1.11.2.1 VFR criteria:

Level	Distance from Cloud	Flight Visibility
At and above FL 195	1500 M Horizontally 1000 FT Vertically	8 KM

1.11.2.2 Operations shall be in accordance with a Letter of Agreement (LoA), or specific permission.

1.11.2.3 Operations shall be conducted on the SPS (1013.2 mb).

1.11.2.4 Radio contact must be maintained on the appropriate frequency.

Note: *Radio frequency requirements for VFR operations by gliders above FL 195 within a Temporary Reserved Area (TRA), Temporary Reserved Area (Gliding) (TRA (G)) or for a specified VFR permission outside a TRA, will be detailed in the respective TRA Letter of Agreement (LoA), or specific permission.*

ENR 1.1 GENERAL RULES (continued)

1.11.3 **Procedures for non-SSR equipped Glider Operations within Temporary Reserved Area (Gliding) (TRA (G)) in Class C Airspace between FL 195 - FL 240**

1.11.3.1 TRA (G) have been provided to accommodate non-SSR equipped gliders. (See ENR 5.2, ENR 6-64 and ENR 6-65).

1.11.3.2 Gliders equipped with SSR transponders should squawk 7006 whilst operating in the TRA (G).

1.11.3.3 **Glider Operations in TRA (G) between FL 195 - FL 240 must comply with the following requirements:**

a) Each TRA (G) shall have a nominated gliding club(s) to manage booking arrangements with the appropriate ACC.
b) The nominated gliding club(s) will request booking of the required TRA (G) airspace 2 hours in advance on the day of operation.
c) A requested upper flight level shall be specified at the time of booking.
d) ACC civil and military supervisors shall co-ordinate booking request and agree initial access arrangements based on the prevailing and forecast GAT/OAT traffic situation.
e) A request to activate the TRA (G) shall be made only when the club(s) have positively established that access is required. No glider will enter until a positive ATC clearance has been obtained to enter the TRA (G). This may be either by telephone or RTF contact with the ACC.
f) Gliders shall monitor the appropriate gliding frequency specified in the LoA whilst operating within the TRA (G).
g) Gliders shall remain within the lateral boundaries of the TRA (G) and below the agreed upper flight level.
h) The gliding club(s) shall provide a contact telephone number to enable the parent ACC to close the TRA (G); if such a request is received the nominated gliding club(s) will direct gliders to vacate the TRA (G) as expeditiously as possible.
i) The nominated gliding club(s) will notify the ACC that TRA (G) activity is complete.
j) Additional requirements and detailed contact arrangements will be contained in a LoA between the responsible ACC and nominated gliding club.

1.11.4 **Procedures for non-SSR equipped Glider Operations within Temporary Reserved Area (Gliding) (TRA (G)) in Class C Airspace above FL 240**

1.11.4.1 All non-SSR equipped glider operations above FL 240 must be conducted in TRA (G).

1.11.4.2 The gliding representative will initiate a request to the appropriate area control supervisor (see paragraph 9.4.3) 2 hours in advance of the intended flight advising the intention to use the designated area and confirm the following details:

a) Temporary Reserved Areas concerned (See ENR 5.2, ENR 6-66 and ENR 6-67);
b) Requested upper limit (Scottish Upper Area (North) has an upper limit of FL 270);
c) Expected time of entry into, and duration in the Upper TRA (G) (negotiated if any other priority ACC task);
d) The number of gliders and associated callsign(s);
e) Name and telephone contact number.

1.11.4.3 Area Control contact telephone numbers:

For Scottish, Spadeadam, Yorkshire and Northern Ireland areas, contact Scottish ACC, Civil ATC Watch Supervisor (WS) on Tel: 01292-692763.

For Welsh areas, contact Swanwick Military Supervisor (SMS) on Tel: 01489-612417.

1.11.4.4 Following notification, the Supervisor will contact the gliding representative to discuss the activity, and allocate the frequency to be employed, or, if the activity cannot be accommodated, advise the representative of the reason and negotiate a new period.

1.11.4.5 The glider pilot shall establish 2-way RTF contact passing FL 200 in the climb, obtain an ATC clearance to enter the TRA (G), maintain a listening watch on the frequency, and report again when passing FL 240 in descent.

1.11.4.6 The military controller will initiate a radio check with the glider pilot on the hour and half hour whilst the aircraft is above FL 240 to confirm continuing RTF contact. In the event of not receiving a radio check call the glider pilot will immediately attempt to re-establish 2-way contact and if unsuccessful shall descend below FL 240 within 15 minutes.

Note: *15 minutes after the last unsuccessful 'operations normal' radio check by the military controller the airspace above FL 240 will be deemed clear of gliders and GAT aircraft will be allowed access.*

1.11.4.7 The glider pilot is responsible for remaining within the designated area. In addition, all gliders flying within TRA (G) above FL 240 are to be fitted with appropriate radio and navigational equipment. In the event of either of these equipments becoming unserviceable, gliders are to descend below FL 240.

1.11.4.8 Whilst operating within a designated area, glider pilots will be in receipt of a Flight Information Service with proximity warnings of either aircraft in emergency or Air Defence Flights, which need to transit the area. The glider pilots will be responsible for their own separation.

1.11.4.9 Whilst operating within a designated TRA (G) above FL 240, all position reports are to be made in relation to Airway/Upper ATS Route Reporting Points.

ENR 1.1 GENERAL RULES (continued)

1.11.4.10 Additional requirements and detailed contact arrangements will be contained in a LoA between the responsible ACC and nominated gliding club(s).

1.11.5 **Procedures for SSR equipped Glider Operations within Temporary Reserved Area (TRA) in Class C Airspace between FL 195 - FL 245**

1.11.5.1 Gliders equipped with RTF and SSR transponder may operate in accordance with VFR within Temporary Reserved Areas (TRA) in Class C Airspace between FL 195 and FL 245 provided that the pilot:

a) Files a flight plan (when specified an abbreviated flight plan will be acceptable).
b) Obtains an ATC clearance to enter the TRA (See ENR 5.2 and ENR 6-13).
c) Monitors ATC frequency.
d) Selects SSR Code A/C as directed by ATC.
e) Whilst operating within a designated area, glider pilots will be in receipt of a Flight Information Service.

1.11.5.2 Detailed access requirements to TRA will be detailed in the LoA between the ACC responsible for the airspace and the nominated gliding club(s) concerned.

1.11.6 **Procedures for Glider Operations in Class C Airspace outside TRA and TRA (G) between FL 195 - FL 285**

1.11.6.1 Glider operations in Class C Airspace between FL 195 - FL 285 must comply with the following requirements:

a) The flight must be conducted in accordance with ATC instructions and/or conditions specified in LoAs or specific permission.
b) A flight plan must be filed. Where specified an Abbreviated Flight Plan will be acceptable as detailed in the LoA between the ACC responsible for the airspace and the nominated gliding club(s) concerned.
c) An ATC clearance must be obtained to fly within the airspace.
d) Select SSR Code A/C as directed by ATC.
e) Maintain listening watch on the ATC frequency.
f) In the event that 2-way RTF contact is lost, pilots shall squawk 7600 and descend below controlled airspace (FL 195) as expeditiously as possible.

1.11.6.2 Other Gliding Activity

1.11.6.2.1 Gliding clubs seeking access to airspace above FL 195 to facilitate special events should contact AUS in accordance with procedures detailed at ENR 1.1, paragraph 4.1.9.

1.12 Procedures for Non-SSR Transponder equipped Glider Operations at and above FL 100 up to FL 195

1.12.1 Non-SSR Glider Areas have been established to accommodate non-transponder equipped glider operations at and above FL 100 up to FL 195 (See ENR 5.2 and ENR 6-63).

1.12.2 ATC clearance is required prior to access of that Class A, C and D Airspace lying within Non-SSR Glider Areas.

1.12.3 Other than that portion of airspace notified as Class A, C and D Airspace the background airspace classification of Non-SSR Glider Areas is Class G, with UK FIS provided on request, where available; and in accordance with ENR 1.1 and ENR 1.6.

1.12.4 The glider pilot is responsible for remaining within the designated area.

2 UK Flight Information Services

2.1 Overview

2.1.1 The ICAO requirements for a Flight Information and Alerting Service are met in the Scottish FIR/UIR and the London FIR/UIR through a suite of services, collectively known as the UK Flight Information Services (FIS), and are provided through the following provisions:

a) To participating flights arriving at, departing from and overflying aerodromes located within Class G Airspace as listed at GEN 3.3.
b) To participating VFR flights operating within Class E Airspace, as listed at ENR 3.1.
c) To aircraft within Advisory Radio Areas as listed at ENR 1.1, paragraphs 5.2.5/6 and ENR 5.2.
d) Lower Airspace Radar Services (LARS) and Radar Service - FL 100 and above (outside CAS), as listed at ENR 1.6.
e) Area Control Centre (ACC) services, including the provision of service by ACC FISOs as detailed at GEN 3.3.

2.1.2 The UK FIS (Basic Service, Traffic Service, Deconfliction Service, Procedural Service) are detailed herein. Within the UK, the scope of FIS, as defined in ICAO Annex 11, is met through the provision of a Basic Service.

2.2 Service Principles

2.2.1 Within Class G Airspace, regardless of the service being provided, pilots are ultimately responsible for collision avoidance and terrain clearance, and they should consider service provision to be constrained by the unpredictable nature of this environment.

ENR 1.1 GENERAL RULES (continued)

2.2.2 A pilot shall determine the appropriate service for the various phases and conditions of flight and request that service from the controller/FISO; a Deconfliction Service and Procedural Service shall only be provided to flights under IFR, irrespective of meteorological conditions. An Alerting Service will be provided in association with all services.

2.2.3 Controllers will make all reasonable endeavours to provide the service that a pilot requests. However, due to finite resources or controller workload, tactical priorities may influence service availability. FISOs are not licensed to provide Traffic Service, Deconfliction Service, or Procedural Service.

2.2.4 Instructions issued by controllers/FISOs to pilots operating outside controlled airspace are not mandatory; however, the services rely upon pilot compliance with the specified terms and conditions so as to promote a safer operating environment for all airspace users.

2.2.5 Agreements can be established between a controller and a pilot such that the operation of an aircraft is laterally or vertically restricted beyond the core terms of the Basic Service or Traffic Service. Unless safety is likely to be compromised, a pilot shall not deviate from an agreement without first advising and obtaining a response from the controller.

2.2.6 There may be circumstances that prevent controllers/FISOs from passing timely traffic information and/or deconfliction advice, eg high workload, areas of high traffic density, against unknown aircraft conducting high energy manoeuvres, or when traffic is not displayed to the controller or obscured by surveillance clutter. Controllers/FISOs shall inform the pilot of known reductions in traffic information along with the reason and the probable duration; however, it may not always be possible to provide these warnings in a timely fashion.

2.3 Basic Service

2.3.1 Basic Service provides advice and information useful for the safe and efficient conduct of flights. This may include weather information, changes of serviceability of facilities, conditions at aerodromes, general airspace activity information, and any other information likely to affect safety. The avoidance of other traffic is solely the pilot's responsibility.

2.3.2 Basic Service is available under IFR outside controlled airspace in any meteorological conditions, or under VFR.

2.3.3 Pilots should not expect any form of traffic information from a controller/FISO and the pilot remains responsible for collision avoidance at all times. However, where a controller/FISO has information that indicates that there is aerial activity in a particular location that may affect a flight, they should provide traffic information in general terms to assist with the pilot's situational awareness. This will not normally be updated by the controller/FISO unless the situation has changed markedly, or the pilot requests an update.

2.3.4 Basic Service is available at all levels and the pilot remains responsible for terrain clearance at all times.

2.3.5 Unless the pilot has entered into an agreement with a controller to maintain a specific course of action, a pilot may change heading, route, or level without advising the controller. A controller will not issue specific heading instructions; however, generic navigational assistance may be provided on request.

2.4 Traffic Service

2.4.1 Traffic Service is a surveillance based ATS, where in addition to the provisions of a Basic Service, the controller provides specific surveillance derived traffic information to assist the pilot in avoiding other traffic. The avoidance of other traffic is solely the pilot's responsibility.

2.4.2 Traffic Service is available under IFR outside controlled airspace in any meteorological conditions, or under VFR. If a controller issues a heading and/or level that would require flight in IMC, a pilot who is not suitably qualified to fly in IMC shall inform the controller and request alternative instructions.

2.4.3 The controller will pass traffic information on relevant traffic, and update the traffic information if it continues to constitute a definite hazard, or if requested by the pilot. However, high controller workload and RTF loading may reduce the ability of the controller to pass traffic information, and the timeliness of such information. Whether traffic information has been passed or not, a pilot is expected to discharge his collision avoidance responsibility without assistance from the controller. Whilst operating in Class G Airspace, if after receiving traffic information a pilot requires deconfliction advice, an upgrade to Deconfliction Service shall be requested. Deconfliction Service is not available in Class E Airspace.

2.4.4 Subject to ATS surveillance system coverage, Traffic Service may be provided at any level and the pilot remains responsible for terrain clearance at all times.

2.4.5 A pilot may operate under their own navigation and may select their own operating levels, or a controller may provide headings and levels for the purpose of positioning, sequencing or as navigational assistance. If a heading or level is unacceptable to the pilot they shall advise the controller immediately.

2.4.6 When operating under their own navigation, pilots may alter course as required; however, unless safety is likely to be compromised, pilots shall not change their general route or manoeuvring area without first advising and obtaining a response from

the controller.

2.4.7 When following an ATC heading, unless safety is likely to be compromised, a pilot shall not change heading without first advising and obtaining a response from the controller.

2.4.8 Unless safety is likely to be compromised, a pilot shall not change level or level band without first advising and obtaining a response from the controller.

2.5 Deconfliction Service

2.5.1 A Deconfliction Service is a surveillance based ATS where, in addition to the provisions of a Basic Service, the controller provides specific surveillance derived traffic information and deconfliction advice.

2.5.2 A Deconfliction Service shall only be provided to flights under IFR in Class G Airspace, irrespective of meteorological conditions. The controller will expect the pilot to accept headings and/or levels that may require flight in IMC. A pilot who is not suitably qualified to fly in IMC shall not request a Deconfliction Service unless compliance permits the flight to be continued in VMC.

2.5.3 A controller will provide traffic information, accompanied with a heading and/or level aimed at achieving a planned deconfliction minima. High controller workload or RTF loading may reduce the ability of the controller to pass such deconfliction advice; furthermore, unknown aircraft may make unpredictable or high-energy manoeuvres. Consequently, controllers cannot guarantee to achieve these deconfliction minima; however, they shall apply all reasonable endeavors. The avoidance of traffic is ultimately the pilot's responsibility.

2.5.4 The pilot shall inform the controller if he elects not to act on the controller's deconfliction advice, and therefore accepts responsibility for initiating any subsequent collision avoidance against that particular conflicting aircraft.

2.5.5 A Deconfliction Service will only be provided to aircraft operating at or above a terrain safe level, unless on departure from an aerodrome when climbing to a terrain safe level, or when following notified instrument approach procedures. If a controller detects a confliction when an aircraft is departing from an aerodrome and climbing to the terrain safe level, or when following notified instrument approach procedures, traffic information without deconfliction advice shall be passed. However, if the pilot requests deconfliction advice, or the controller considers that a definite risk of collision exists, the controller shall immediately offer such advice.

2.5.6 Unless safety is likely to be compromised, a pilot shall not change heading or level without first obtaining approval from the controller.

2.6 Procedural Service

2.6.1 A Procedural Service is a non surveillance ATS where, in addition to the provisions of a Basic Service, the controller provides instructions, which if complied with, shall achieve deconfliction minima against other aircraft participating in the Procedural Service. Neither traffic information nor deconfliction advice can be passed with respect to unknown traffic.

2.6.2 A Procedural Service shall only be provided to flights under IFR, irrespective of meteorological conditions. The controller will expect the pilot to accept levels, radials, tracks, routes and time allocations that may require flight in IMC. A pilot who is not suitably qualified to fly in IMC shall not request a Procedural Service unless compliance permits the flight to be continued in VMC.

2.6.3 A Procedural Service is available at all levels and the pilot remains wholly responsible for terrain clearance at all times.

2.6.4 A controller will provide deconfliction instructions by allocating levels, radials, tracks, routes, time restrictions, approach clearances and holding instructions, or use pilot position reports, aimed at achieving a planned deconfliction minima. The pilot shall inform the controller if they elect not to act on the controller's deconfliction advice, and therefore accepts responsibility for initiating any subsequent collision avoidance against the aircraft in question and any other aircraft affected.

2.6.5 The controller will provide traffic information on conflicting aircraft being provided with a Basic Service and those where traffic information has been passed by another ATS unit; however, there is no requirement for deconfliction advice to be passed, and the pilot is wholly responsible for collision avoidance.

2.6.6 Unless safety is likely to be compromised, a pilot shall not change level, radial, track, route or time restriction without first obtaining approval from the controller. If a level, radial, track, route or time restriction is unacceptable to the pilot, they shall advise the controller immediately.

3 General Flight Procedures

3.1 Position Reporting within the London and Scottish FIR/UIR

3.1.1 Pilots are to make a position report in the following circumstances:

a) After transfer of communication;

b) on reaching the limit of ATS clearance;
c) when instructed by Air Traffic Control;
d) when operating helicopters in the North Sea Low Level Radar Advisory and Flight Information areas of responsibility and on Helicopter Routes within the London Control Zone and London/City Control Zone (see ENR 1.6, subsection 4.5 and AD 2.EGLL 2.22, paragraph 11);
e) when operating flights across the English Channel (see ENR 1.1, paragraph 3.7).

3.1.1.1 The initial call changing radio frequency shall contain only the aircraft identification and flight level. Any subsequent report shall contain aircraft identification, position and time except as provided for in respect of helicopter operations in the areas specified in paragraph 3.1.1 (d) above.

Note: *When changing frequency between the London or Scottish Control Centres, pilots are required to state their callsign and Flight Level/Altitudes only (plus any other details when specifically instructed by ATC). When the aircraft is in level flight but cleared to another FL/ALT, both FL/ALT should be passed.* ***Similarly, when the aircraft is not in level flight, the pilot should state the aircraft identification followed by the FL/ALT to which it is cleared only; it is not necessary to state passing FL/ALT in these circumstances.***

3.1.1.2 Certain Reporting Points on the boundary between the London FIR/UIR and the Amsterdam FIR are designated 'Compulsory' in the Netherlands AIP. Position Reports should therefore be made at these points when in communication with Amsterdam or Maastricht Control.

3.1.2 **Omit Position Report Procedure**

3.1.2.1 In order to reduce RTF communication a pilot may be instructed by Air Traffic Control to omit position reports provided that the aircraft is radar identified.

3.1.3 **DME Distance Reports to ATC**

3.1.3.1 Pilots, when requested by ATC to report their distance from a DME facility which they do not have displayed, should retune their equipment to that DME. If, for any reason, they are unable to report their distance from the requested DME, ATC is to be informed. Pilots should not calculate the distance based on the reading from another DME.

3.2 Climb and Descent

3.2.1 **Vacating (Leaving) Levels**

3.2.1.1 When pilots are instructed to report leaving a level, they should advise ATC that they have left an assigned level only when the aircraft's altimeter indicates that the aircraft has actually departed from that level and is maintaining a positive rate of climb or descent in accordance with published procedures.

3.2.2 **Level Restrictions**

3.2.2.1 For **all** stages of flight, clearances to climb or descend cancel any previous restrictions or levels, unless they are reiterated as part of the clearance.

3.2.2.2 When a departing aircraft on a SID is required to climb directly to the cleared level without complying with the published vertical restrictions on the SID, ATC will include the word ‘now’ in climb instructions (e.g. Jet 347 climb now FL 120).

3.2.2.3 **Maximum Rates of Climb and Descent**

3.2.2.3.1 In order to ensure the credible interaction of Airborne Collision Avoidance Systems and ground based safety nets, other than aircraft in emergency and certain specific conditions for military aircraft (as detailed in Military AIP and MAA Regulatory Publication RA 3000 Series), all aircraft when operating under normal circumstances, when inside Controlled Airspace within the London and Scottish FIRs/UIRs should not operate with a climb or descent rate exceeding 8000 FT per minute. Aircraft when first approaching a cleared flight level and/or when changing flight level in Controlled Airspace should ensure that the vertical closure speed is not excessive. It is considered that, with about 1500 FT to go to a cleared level, vertical speed should be reduced to a maximum of 1500 FT per minute and ideally to between 1000 FT per minute and 500 FT per minute. Pilots should ensure that the aircraft neither undershoots nor overshoots the cleared level by more than 150 FT, manually overriding if necessary.

3.2.2.4 **Minimum Rates of Climb and Descent**

3.2.2.4.1 In order to ensure that controllers can accurately predict flight profiles to maintain standard vertical separation between aircraft, pilots of aircraft commencing a climb or descent in accordance with an ATC Clearance should **inform the controller** if they anticipate that their rate of climb or descent during the level change will be less than 500 FT per minute, or if at any time during such a climb or descent their vertical speed is, in fact, less than 500 FT per minute.

3.2.2.4.2 This requirement applies to both the en-route phase of flight and to terminal holding above Transition Altitude.

Note: *This is not a prohibition on the use of rates of climb or descent of less than 500 FT per minute where necessary to comply with other operating requirements.*

ENR 1.1 GENERAL RULES (continued)

3.2.2.5 **Noise Abatement Approach Techniques**

3.2.2.5.1 The use of Continuous Descent Approach (CDA) and Low Power/Low Drag Approach (LP/LD) techniques (as defined at GEN 2.2) is required, subject to compliance with ATC requirements, at certain UK Airports as detailed in the appropriate AD 2 Sections. At other locations, although not required, these techniques are considered to be 'best practice' for the reduction of noise nuisance and emissions and should be adopted by pilots whenever operationally practicable, commensurate with the ATC clearance.

3.3 Speed Control

3.3.1 Pilots shall adhere to the speed limits associated with airspace classifications and the speed restrictions notified in procedures published in AD 2. Pilots shall also adhere to the speed (IAS or Mach Number) approved or assigned by ATC and shall request ATC approval before making any changes thereto. If it is essential to make an immediate temporary change in speed (e.g. due to turbulence), ATC shall be notified as soon as possible that such a change has been made.

3.3.2 Pilots of aircraft unable to maintain the last assigned speed during any particular phase of flight (eg for aircraft performance reasons) shall inform ATC as soon as possible in order that another speed/alternative clearance can be issued.

3.3.3 At levels at or above FL 280, speed adjustments for aircraft in the cruise will be expressed in multiples of 0.01 Mach. At levels below FL 280, speed adjustments will be expressed in multiples of 10 KT based on indicated airspeed (IAS).

3.3.4 For aircraft at or above FL 280 that have been cleared to descend to levels below FL 280, speed adjustments may be based on IAS.

3.4 Radiotelephony, Radio Failure and Loss of Communication Procedures

3.4.1 **General Radiotelephony Procedures**

3.4.1.1 The English Language is used for all communications between aircraft and ATC in the UK.

3.4.1.2 VHF/RTF is used for all air-ground communications throughout the airspace under UK jurisdiction except that HF is also used in the Shanwick Oceanic Control Area and that UHF is also available at London Area Control (Swanwick) and at certain aerodromes (see ENR 1.6, subsection 4.5 and ENR 2.1 sections for details).

3.4.1.3 So far as possible, pilots should make use of the ICAO standard RTF phraseology in ICAO Doc. 4444, Chapter 12 when communicating with ATC. UK specific differences to ICAO phraseology are notified in GEN 1.7 section.

3.4.1.3.1 As a general principle all messages should be acknowledged by use of the aircraft callsign or 'Roger, (callsign)'.

3.4.1.3.2 Messages containing any of the following items must be read back in full:

a) Taxi/towing instructions;
b) Level instructions;
c) Heading instructions;
d) Speed instructions;
e) Airways or route clearances;
f) Approach clearances;
g) Runway-in-use;
h) Clearance to enter, land on, take-off, backtrack or cross or hold short of an active runway;
i) SSR operating instructions;
j) Altimeter Settings, including units when value is below 1000 hectopascals;
k) VDF information;
l) Frequency changes;
m) Type of ATS surveillance service;
n) Transition level.

3.4.1.3.3 When an estimate for a compulsory or non-compulsory reporting point, flight information boundary, or destination aerodrome is requested by an ATS unit and is in error by in excess of 2 minutes, pilots are required to provide a revised estimate to an appropriate ATS unit as soon as possible.

3.4.1.3.4 Where data link communications are used to facilitate clearance delivery, voice read-back of data link messages shall not be required unless otherwise notified by the appropriate authority.

3.4.1.4 **Operations Normal**

3.4.1.4.1 Pilot transmissions containing the RTF phraseology 'operations normal' are generally associated with aerial activities over mountainous or sparsely populated areas (including sea areas), where the flight receiving an ATS is required to operate within the area of responsibility of a single ATSU for prolonged periods of time. Such transmissions are made by pilots following a period of RT

inactivity of 30 minutes.

3.4.1.4.2 The pilot's declaration of 'operations normal' is used to inform the ATSU that the flight is progressing according to plan. Controllers who do not receive an 'operations normal' report when expected will attempt to establish communications with the pilot. After three failed attempts, controllers will initiate overdue action.

3.4.2 **Radio Failure Procedures For Pilots**

3.4.2.1 **Failure of Navigation Equipment**

3.4.2.1.1 If part of an aircraft's radio navigation equipment fails but two-way communication can still be maintained with ATC, the pilot must inform ATC of the failure and report his altitude and approximate position. ATC may, at its discretion, authorize the pilot to continue his flight in or into Controlled Airspace. When radar is available it may, subject to workload, be used to provide navigational assistance to the pilot.

3.4.2.1.2 If no authorization to proceed is given by ATC, the pilot should leave, or avoid Controlled Airspace and areas of dense traffic, and either:

a) Go to an area in which he can continue his flight in VMC or (if this is not possible);
b) select a suitable area in which to descend through cloud, fly visually to a suitable aerodrome and land as soon as practicable.

But before doing so, however, he should consult ATC who may be able to give him instructions or advice. He should also take into consideration the latest meteorological information and terrain clearance and should make full use of ground VHF DF stations. He must at all times keep ATC informed of his intentions.

3.4.2.2 **Failure of Two-way Radio Communications Equipment**

3.4.2.2.1 As soon as ATC know that two-way communication has failed they will, as far as practical, maintain separation between the aircraft experiencing the communication failure and other aircraft, based on the assumption that the aircraft will operate in accordance with radio communication failure procedures described below.

3.4.2.2.2 Flight crews should note that air traffic control might not be aware of the loss of communications, so should not anticipate that appropriate measures to facilitate a landing have been implemented. Flight crews intending to land should therefore be alert to the possibility that vehicles, personnel and or other traffic may be occupying or entering the runway.

3.4.2.2.3 It should be noted that for many aerodromes in the UK, the radio communications failure procedures published in the AD 2 section differ from, or amplify, the basic procedures published below.

3.4.2.2.4 **For the purposes of these procedures, ATC will expect an IFR flight following the ATS route structure to adopt the IMC procedure in paragraph 3.4.2.4. If there is an overriding safety reason, the pilot may adopt the VMC procedure.**

3.4.2.2.5 Flights operating outside controlled airspace, without reference to ATS, should only use these procedures when the pilot decides that there is a need to alert ATC that two-way radio communications failure has occurred.

3.4.2.2.6 It should be noted that the use of loss of two-way communications procedures may result in aircraft flying outside controlled airspace.

3.4.2.2.7 The procedures detailed in this section apply to two-way radio communications failure. In the event that an additional emergency situation develops, ATC will expect the pilot to select secondary radar transponder on Mode A, Code 7700.

3.4.2.2.8 The expression Expected Approach Time (EAT) will mean either an EAT given by the appropriate ATC Unit or, if the pilot has been given 'No delay expected', the ETA over the appropriate designated landing aid serving the destination aerodrome.

3.4.2.2.9 Pilots are given an EAT of 'Delay not determined' when the destination runways cannot be used for landing and it is not possible to accurately predict when they will become available. In some circumstances an EAT of 'Delay not determined' will also be given when a preceding flight has elected to remain over the holding facility pending an improvement in weather conditions at the destination. If 'Delay not determined' has been given, do not attempt to land at the destination aerodrome, divert to the alternate destination specified in the current flight plan or another suitable airfield.

3.4.2.2.10 The 'current flight plan' is the flight plan, as filed and acknowledged with an ATC Unit, by the pilot or a designated representative.

3.4.2.2.11 The procedure that should be used by Special VFR Flights is detailed at ENR 1.2, paragraph 2.9.

3.4.2.2.12 Essential information may be relayed by ATC using the ACARS/Data Link. Pilots may endeavour to use alternative methods for communicating with ATC such as HF. The Distress and Diversion Cell (D&D) serving the London FIR/UIR and the Scottish FIR/UIR may be contacted by phone by aircraft that have approved installations that can access the UK telephone network. The telephone number is:

London D&D Tel: 01489-612406

ENR 1.1 GENERAL RULES (continued)

3.4.2.3 **Visual Meteorological Conditions (VMC)**

3.4.2.3.1 A VFR flight experiencing communication failure shall:

When VMC can be maintained, the pilot should set transponder on Mode A, Code 7600 with Mode C and land at the nearest suitable aerodrome. Pilots should take account of visual landing aids and keep watch for instructions as may be issued by visual signals from the ground. The pilot should report arrival to the appropriate ATC unit as soon as possible. When VMC cannot be maintained, the pilot should adopt the procedures for IMC detailed below.

3.4.2.3.2 Subject to the provisions of paragraph 3.4.2.2.3, an IFR flight experiencing communication failure in VMC shall:

When VMC can be maintained, the pilot should set transponder to Mode A, Code 7600 with Mode C and land at the nearest suitable aerodrome. Pilots should take account of visual landing aids and keep watch for instructions as may be issued by visual signals from the ground. The pilot should report arrival to the appropriate ATC unit as soon as possible. If it does not appear feasible to continue the flight in VMC, or if it would be inappropriate to follow this procedure, the pilot should adopt the procedures for flights in IMC detailed below.

Note: *Pilots already in receipt of an ATC clearance may enter controlled airspace and follow the procedures referred to above.* ***Those flights, that have not received an ATC clearance, should not enter controlled airspace unless an overriding safety reason compels entry.***

3.4.2.4 **Instrument Meteorological Conditions (IMC)**

3.4.2.4.1 A flight experiencing communications failure in IMC during an approach directed by radar shall:

a) Operate secondary radar transponder on Mode A code 7600 with Mode C.
b) Continue either visually, or by means of promulgated Initial Approach Procedures and an appropriate approved final approach aid, to land. If this is not practical, carry out the missed approach procedure and continue to a holding facility appropriate to the airfield of intended landing for which an instrument approach is notified and then carry out that procedure.

3.4.2.4.2 Except where communications failure occurs during an approach directed by radar, a flight experiencing communication failure in IMC shall:

a) Operate secondary radar transponder on Mode A code 7600 with Mode C.
b)
   i. Maintain for a period of seven minutes, the current speed and last assigned level or minimum safe altitude, if this is higher. The period of seven minutes begins when the transponder is set to 7600 and this should be done as soon as the pilot has detected communications failure.
   ii. If failure occurs when the aircraft is following a notified departure procedure such as a Standard Instrument Departure (SID) and clearance to climb, or re-routing instructions have not been given, the procedure should be flown in accordance with the published lateral track and vertical profile, including any stepped climbs, until the last position, fix, or waypoint, published for the procedure, has been reached. Then, for that part of the period of seven minutes that may remain, maintain the current speed and last assigned level or minimum safe altitude if this is higher.
   iii. Following the period of seven minutes, adjust the speed and level in accordance with the current flight plan and continue the flight to the appropriate designated landing aid serving the destination aerodrome. Attempt to transmit position reports and altitude/flight level on the appropriate frequency when over routine reporting points.
c) If being radar vectored, or proceeding offset according to RNAV, without a specified limit, continue in accordance with ATC instructions last acknowledged for three minutes only and then proceed in the most direct manner possible to rejoin the current flight planned route. Pilots should ensure that they remain at, or above, the minimum safe altitude.
d) Comply with the loss of communications procedures notified for the destination aerodrome in the AD 2 section of the UK AIP.
e)
   i. Arrange the flight to arrive over the appropriate designated landing aid serving the destination aerodrome as closely as possible to the ETA last acknowledged by ATC. If no such ETA has been acknowledged, the pilot should use an ETA derived from the last acknowledged position report and the flight-planned times for the subsequent sections of the flight.
   ii. Arrange the flight to arrive over the appropriate designated landing aid serving the destination aerodrome at the highest notified Minimum Sector Altitude taking account of en-route terrain clearance requirements.
   iii. If following a notified Standard Arrival Route (STAR), after the seven minute period detailed in paragraph (b) (i) has been completed, pilots should arrange descent as close as possible to the published descent planning profile. If no descent profile is published, pilots should arrange descent to be at the minimum published level at the appropriate designated Initial Approach fix.
f) On reaching the appropriate designated landing aid serving the destination aerodrome, begin further descent at the last acknowledged EAT. If no EAT has been acknowledged, the descent should be started at the ETA calculated in (e) (i), above, or as close as possible to this time. If necessary, remain within the holding pattern until the minimum holding level, published for the facility, has been reached. The rate of descent in holding patterns should not be less than 500 FT per minute. If 'Delay not determined' has been given, do not attempt to land at the destination aerodrome, divert to the alternate destination specified in the current flight plan or another suitable airfield.
g) Carry out the notified instrument approach procedure as specified for the designated navigational aid and, if possible, land within 30 minutes of the EAT or the calculated ETA. When practical, pilots should take account of visual landing aids and keep watch for instructions that may be issued by visual signals from the ground.

ENR 1.1 GENERAL RULES (continued)

3.4.3 **Actions taken by ATC**

a) As far as is practical, ATC shall maintain separation between the aircraft experiencing the communication failure and other aircraft based on the assumption that the aircraft will operate in accordance with published radio communication failure procedures. This includes making allowance for the fact that an aircraft following an approach, whether or not it has received a landing clearance, may either land or may carry out the missed approach procedure.
b) ATC will assume that an aircraft's receiver may be functioning and will transmit instructions for routing and other relevant information such as the EAT, weather information, altimeter settings and runway in use at destination (or alternate) aerodromes.
c) ATC will use all means possible to monitor the flight's progress and inform other flights where necessary.
d) ATC will attempt to re-establish communications with the pilot by monitoring standby frequencies (where available) and by contacting the aircraft operator, or handling agent or by use of ACARS/Data Link when available.
e) ATC will co-ordinate the flight with other ATC agencies as required.
f) If the flight re-establishes communications with an ATC unit during flight, or after the aircraft has landed, the ATC unit will relay the pilot's intentions, or that the aircraft has landed, to the ATC Unit that was providing an ATS when the communications failure occurred.
g) If the aircraft's progress cannot be monitored by radar and there has been no other indication of the aircraft's progress, or landing, normal overdue action will commence 30 minutes after the ETA for the destination airfield.

3.5 Use of Airborne Collision Avoidance Systems (ACAS) in the Scottish FIR/UIR and the London FIR/UIR

3.5.1 **General**

3.5.1.1 ACAS indications shall be used by pilots in the avoidance of potential collisions, enhancement of situational awareness, and the active search for, and visual acquisition of, conflicting traffic. The ability of ACAS to fulfil its role of assisting pilots in the avoidance of potential collisions is dependent on the correct and timely response by pilots to ACAS indications.

3.5.1.2 The Traffic Alert and Collision Avoidance System (TCAS) II is accepted by the Civil Aviation Authority (CAA) as a suitable ACAS system provided its installation is certificated by the State of Registry, and that its operation by flight crew is in accordance with appropriate operating instructions.

3.5.2 **Procedures to be Established**

3.5.2.1 An operator shall establish procedures to ensure that:

a) When ACAS is installed and serviceable, it shall be used in flight in a mode that enables Resolution Advisories (RAs) to be produced unless to do so would not be appropriate for conditions existing at the time, and
b) When undue proximity to another aircraft is detected by ACAS, the commander or the pilot to whom conduct of the flight has been delegated shall ensure that corrective action is initiated immediately to establish safe separation.
c) The circumstances when it is appropriate to operate ACAS in the Traffic Advisory (TA)-only mode are specified in the Flight Operations Manual. This should be limited to particular in-flight failures, during take-offs or landings in limiting performance conditions (for example at high altitude airports), and locations where States have approved specific procedures permitting aircraft to operate in close proximity, only.

3.5.3 **TCAS II Operating Characteristics**

3.5.3.1 TCAS II will issue a TA only when another aircraft with a compatible operating transponder is close in both range and altitude. If the transponder in the potentially conflicting aircraft is providing altitude data, an RA may be issued.

3.5.3.2 TAs and RAs can be issued on the basis of 'time to closest point of approach (CPA)' or 'fixed distance' thresholds being penetrated. On most occasions, TAs and RAs will be issued on the 'time to CPA' basis, but in RVSM penetration of airspace fixed range and altitude thresholds are likely to be a more frequent cause.

Note: *In cases where a vertical speed of closure causes RAs to be issued, TCAS II in the climbing/descending aircraft may advise a reduction in the climb or descent rate, whilst TCAS II in the other aircraft may advise a 'Climb' or 'Descend' RA. If the climbing/descending aircraft in this pair is diverging in range at a slow rate, the 'Climb' or 'Descend' RA issued to the Flight Crew in the other aircraft may remain displayed for several minutes, even though the former has levelled off at its cleared flight level. Although this particular circumstance is likely to be rare, even when it does occur, excessive altitude excursions need not result.*

3.5.4 **Operation of Aircraft When ACAS II is Unserviceable**

3.5.4.1 The current TCAS II Minimum Equipment List permits TCAS II equipped aircraft to operate for up to 10 days with the equipment out of service. This position will be kept under review.

3.5.4.2 Due to the safety benefits arising from TCAS operations and the collaborative way in which it arrives at collision avoidance solutions any aeroplane with an unserviceable transponder as well as an unserviceable TCAS will not be permitted in UK airspace

for which mandatory carriage of a transponder is required.

3.5.5 **Operation of TCAS II in RVSM Airspace**

3.5.5.1 Above FL 290, TAs and RAs are most likely to occur in airspace where aircraft change altitude to reduce separation from 2000 FT to 1000 FT: this airspace is described as a 'Transition Area'. Specifically:

a) TAs can be expected when aircraft vertically separated by 1000 FT pass each other. If the speed at which they pass is low, such as when one is overtaking the other, TAs may be intermittent or they may last for long periods.
b) RAs can be expected when the vertical speed of closure, which may be the sum of the vertical speeds of both aircraft or the vertical speed of one of the aircraft, exceeds approximately 1500 FT/min. RAs might also be issued when either aircraft experiences turbulence sufficient to cause TCAS to project the vertical separation between both aircraft to be less than 800 FT at CPA, or when a 'soft altitude hold' function in either aircraft achieves the same result.

3.5.6 **Guidance for Aircraft Operators and Flight Crews**

3.5.6.1 Flight Crews can reduce the likelihood of TAs and RAs occurring above FL 290 where separation is less than 2000 FT vertically and 5 NM horizontally by confining vertical speeds to less than 1500 FT/min. Desirably, the vertical speed should be between 500 and 1000 FT/min.

3.5.6.2 The TCAS II function control selector should not be moved from the 'TA/RA' or 'Normal' position upon entering RVSM Airspace. Although it is implicit that such TAs and RAs as have been described could be termed 'unnecessary', this might not always be the case. For this reason, Flight Crews would be unwise either to disable an effective collision avoidance device without sound reason, or to assume that any TA or RA issued in this airspace is other than genuine.

3.5.6.3 Flight Crews shall not manoeuvre an aircraft solely in response to a TA. TAs are intended to alert the pilot to the possibility of an RA, and to assist in visual acquisition of conflicting traffic. However, visually acquired traffic may not be the same traffic causing a TA, and visual perception of an encounter may be misleading, particularly at night.

3.5.6.4 In the event that an RA is issued, Flight Crews shall:

a) Respond immediately and manoeuvre as indicated by the ACAS unless doing so would jeopardise the safety of the aircraft;
b) follow the RA even if there is a conflict between that RA and an air traffic control (ATC) instruction to manoeuvre;
c) not manoeuvre in the opposite sense or direction to that of the RA;
d) limit RA manoeuvres to the minimum extent necessary to comply with the RA.

3.5.6.5 Flight Crews should note that:

a) Other critical warnings such as Stall Warning, Windshear Warning and Ground Proximity Warning Systems have priority over ACAS.
b) visually acquired traffic may not be that causing an RA, as the visual perception of an encounter may be misleading, particularly at night.
c) ATC may not know when an ACAS system issues an RA. It is possible for ATC to issue instructions to an aircraft that are unknowingly contrary to RA instructions on that aircraft. Therefore, it is essential that ATC be notified when an ATC instruction is not being followed because it conflicts with an RA.
d) a manoeuvre opposite to the sense of an RA may result in a reduction in vertical separation with the ‘threat’ aircraft and therefore must be avoided at all times; this is particularly true in the case of an ACAS-ACAS co-ordinated encounter, when the RAs complement each other in order to reduce the potential for collision. Manoeuvres, or lack of manoeuvres, that result in vertical rates opposite to the sense of an RA could result in a collision with the threat aircraft.

3.5.6.6 A pilot who has deviated from an air traffic control instruction or clearance in response to an RA shall:

a) As soon as possible, as permitted by flight deck workload, notify the appropriate ATC unit of the RA, including the direction of any deviation from the current ATC instruction or clearance.
b) when they are unable to comply with a clearance or instruction that conflicts with an RA, notify ATC as soon as possible consistent with flying the aircraft.
c) promptly comply with any modified RAs.
d) return to the terms of the ATC instruction or clearance when the conflict is resolved.
e) after initiating a return to, or resuming the current clearance, notify ATC as soon as possible consistent with flying the aircraft.

3.5.6.6.1 Verbal reports should be made to Air Traffic Control at the first practicable moment and written reports submitted to the designated Authority as soon as possible after the flight has ended.

3.5.7 **Guidance for Air Traffic Service Providers and for Air Traffic Controllers**

3.5.7.1 The operation of TCAS II equipment will affect ATC operations to some extent, irrespective of the type of airspace. ATC will expect Flight Crew to react to RAs and to notify any manoeuvres initiated in response to RAs in accordance with standard practice. The Manual of Air Traffic Services Part 1, Section 1, Chapter 9 provides information on TCAS II to Air Traffic Controllers: it reiterates

the phraseology that Flight Crews will use and the replies that Air Traffic Controllers should make.

3.5.7.2 It will be apparent from paragraph 3.5.5.1 that TAs will be more frequent in North Atlantic RVSM Airspace than elsewhere. Air Traffic Controllers should be aware of this and, where possible, be prepared to provide requested traffic information to Flight Crews.

3.5.7.3 As pilots are not required to take avoiding action on the basis of TA information alone, ATC does not expect requests for traffic information to be made unless the other aircraft cannot be seen and the pilots believe their aircraft is about to be endangered.

3.5.7.4 ATC expects pilots to respond immediately to an RA. Pilots are expected to restrict their RA manoeuvres to the minimum required to resolve the confliction, advise the Air Traffic Control Unit as soon as is practical thereafter and return to their original flight path as soon as it is safe to do so.

3.5.7.5 Pilots should be aware that any deviation from an ATC clearance has the potential to disrupt the controller's tactical plan and may result in a reduction of standard separation between aircraft other than those originally involved. It is vital that Flight Crew maintain a good look out and return to their original flight path as soon as it is safe and practical to do so.

3.6 Emergency Descents

3.6.1 **General**

3.6.1.1 The requirement to carry out an emergency descent may be necessary to ensure the safety of an aircraft and its occupants, and can sometimes be required with little or no notice. In busy and congested airspace, sudden changes of level can lead to unexpected interactions with other aircraft in the vicinity.

3.6.2 **Turning-off or Remaining on Track in UK Controlled Airspace**

3.6.2.1 UK Controlled Airspace is complex and congested, and traffic is often oriented on ATS routes in certain directions or flows. Therefore, if able, pilots should remain on the assigned route or track whilst carrying out the emergency descent, unless to do so would endanger the aircraft.

3.6.2.2 If a turn away from an assigned route or track is initiated, pilots should note that they may not be aware of traffic in their proximity (especially if flying on an assigned heading); nor of aircraft below them, not on the selected frequency, or in adjacent airspace sectors. However, it is ultimately the pilot’s responsibility to take the action most appropriate in the circumstances.

3.7 Diversion

3.7.1 Diversion is the act of flying to an aerodrome other than the planned destination with the intention of landing there.

3.7.2 Normally diversion is made when one of the following circumstances occurs at the planned destination:

a) The weather is reported to be below the operating company's minima;
b) there are obstacles on the manoeuvring area constituting a hazard to landing aircraft which cannot be cleared within a reasonable time;
c) there is a failure of an essential ground aid which is required for the landing;
d) there is likely to be an unacceptable delay to landing.

3.7.3 Diversion may be originated by either the pilot or his operating company, or exceptionally by ATC.

3.7.3.1 When a pilot decides to divert he should inform ATC. ATC will, if possible, advise his operating company or a nominated addressee of his diversion when this is specifically requested by the pilot.

3.7.3.2 An operating company proposing to divert one of its aircraft should consult ATC before any decision on diversion is passed to the pilot. The message to the pilot will be in this form:

'Company advise divert to . . . . . (aerodrome). Weather at . . . . . (diversion aerodrome) . . . . . Reason for diversion . . . . . (clearance instructions). Acknowledge'.

The pilot should either follow this advice or if he is unable to do so, give his reasons and state what he intends to do.

3.7.3.3 In exceptional circumstances, it may be necessary for ATC to advise a pilot to divert before being able to consult his operating company. In such a case, the company will be told as soon as possible and the message to the pilot will be in the form:

'Request divert to . . . . . (aerodrome). Weather at . . . . . (diversion aerodrome) . . . . . Reason for diversion . . . . . (clearance instructions). Acknowledge'.

If the pilot is unable to comply with this request, he should give his reasons and state his intention.

ENR 1.1 GENERAL RULES (continued)

3.8 Low Level Cross-Channel Operations - UK/France

3.8.1 Pilots undertaking Cross-Channel flights are reminded that a flight plan **MUST** be filed for all flights crossing FIR boundaries between the UK and France.

3.8.2 When filing the flight plan with the UK and French Authorities, pilots are to ensure that well defined significant points/features, at which the aircraft will cross the UK and French coast-lines, are included in Item 18 (Other Information) of the flight plan form (eg Beachy Head, Berck-sur-Mer, Lydd, Boulogne, Dover, Cap Gris Nez, etc). This is for Search and Rescue purposes but will also assist ATC.

3.8.3 Pilots should plan their flights, where possible, at such altitudes which would enable radio contact to be maintained with the appropriate ATC Unit whilst the aircraft is transitting the Channel. In addition, the French Authorities have requested that aircraft fly at altitudes which will keep them within Radar cover. The carriage of Secondary Surveillance Radar (SSR) equipment is recommended.

3.8.4 Position reports are required when crossing the coast outbound, inbound and when crossing the FIR Boundary.

3.8.5 Pilots undertaking Cross-Channel flights under IFR, are reminded that the normal IFR Rules will apply particularly regarding altitudes and flight levels. Pilots are also reminded that the IMC rating is not recognized by the French Authorities.

4 Arrangements for Particular Types of Flight (Non-Standard, Non-Deviating, Unusual, Royal, Observation, Special, VFR Access to Class C Airspace Above FL 195, and Civilian Formation Flights)

4.1 Non-Standard Flights (NSFs) in Controlled Airspace

4.1.1 A Non-Standard Flight (NSF) in Controlled Airspace is an aerial task that may not necessarily follow published routes or notified procedures; a formation flight of civil aircraft other than for VFR transit of CTA/CTR/TMA; or flights to and from a temporary landing site for multiple short term operations. For test flights which take place within CAS and use the ATS route network, please see section 4.9.

4.1.1.1 Applications for NSFs within Controlled Airspace should primarily be made via the NATS Non-Standard Flight Application website (www.nats.co.uk/nsf) with the minimum 21 or 28 days notice (see paragraphs 4.1.2 and 4.1.6). If applicants are unable to utilise this website, applications may be submitted to the units listed below.

a) For flights south of 5230N and within the East Midlands CTA:

Post: London Control (Swanwick)
ATC Operations, PO Box 30, NATS Ltd, Sopwith Way, Swanwick, Southampton, Hants, SO31 7AY.
Phone: 01489-444181.
01489-444182.
Email: **NonStandard.FlightApplications@nats.co.uk**

b) for flights north of 5230N and over Northern Ireland:

Post: Scottish AC (Prestwick)
ATC Airspace Reservation Cell, NATS Prestwick, Room F-059, Prestwick Centre, Fresson Avenue, Prestwick, Ayrshire, KA9 2GX.
Phone: 01292-692431.
Fax: 01292-692042.
Email: **Reservation.Cell@nats.co.uk / PCDUTYOPS@nats.co.uk**

c) for flights within 15 NM and up to 7000 FT of Manchester Airport:

Post: Manchester Airport Operations
Control Tower Building, Manchester Airport Ltd, Wythenshawe, Manchester, M90 2PL.
Phone: 0161-499 5316/5305.
Email: **manchesterairport.atcops@nats.co.uk**

d) for localised VFR flights above FL 195 south of 55N not requiring reserved airspace and outside of the ATS route structure:

Post: Swanwick(Mil) West Bank Supervisor
RAF(U) Swanwick, Sopwith Way, Swanwick, Southampton, Hants, SO31 7AY.
Phone: 01489-612417
Fax: 01489-612611
Email: **SwanwickMilitary-West@nats.co.uk**

e) for localised VFR flights above FL 195 north of 55N not requiring reserved airspace and outside of the ATS route structure:

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Post: Swanwick(Mil) North Supervisor
RAF(U) Swanwick, Sopwith Way, Swanwick, Southampton, Hants, SO31 7AY.
Phone: 01489-612943
Fax: 01489-612611
Email: **SwanwickMilitary-North@nats.co.uk**

See Swanwick (Mil) Sector Dimensions chart at ENR 6-12.

4.1.1.2 Applicants using either the website based application or any e-mail address listed above should ensure that the file sizes do not exceed 5MB. Zipped files are acceptable.

4.1.2 New applications or a renewal of a previously approved application shall give a minimum of **21 days** notice and include the information listed below (Any modification to a previously approved NSF application, without a change to the validity date, shall give a minimum of 10 days notice from the date of modification):

a) Purpose of flight;
b) the area of operation and proposed tracks to be flown, to include graphical depiction on a suitable **aeronautical chart** plus a list of National Ordnance Survey Grid and/or WGS84 co-ordinates detailing the requested areas of operation in relation to Controlled Airspace;
c) estimated duration of aerial task;
d) operating levels;
e) aircraft type, callsign and registration letters on any aircraft likely to be used;
f) aerodrome of departure;
g) planned date of operation and requested validity period;
h) communications equipment (including transponder fit).

4.1.2.1 Those applications which are agreed will be allocated a non-standard flight reference number. This is only an approval in principle and prior clearance must be obtained from the appropriate ATC Watch Supervisor on the day. This is normally obtained by telephone 1 hour prior to departure. However, since many tasks are weather-dependent, some have to be abandoned after the aircraft is airborne. To overcome the particular difficulty of having to land and co-ordinate another detail by telephone, the following procedures may be adopted by pilots of those NSFs which have been previously allocated a NSF number by London Area Control (Swanwick) or London Terminal Control (Swanwick), and who wish to abandon the original task co-ordinated prior to take-off and proceed to another location.

4.1.2.1.1 The aircraft commander will establish RTF contact on the London FIS frequency (callsign 'London Information') appropriate to the area of the country over which the new task is required to be flown, prefixing the message with the phrase 'Non-Standard Flight Request'. The following information will then be passed to the Flight Information Service Officer (FISO):

a) The Non-Standard Flight number;
b) the requested area of activity (this is essential as many NSF numbers refer to several sites);
c) ETA at site;
d) the requested Flight Level or Altitude for the task;
e) the duration of the task;
f) the aircraft callsign.

4.1.2.1.2 The FISO will relay these details to the appropriate ATC Unit and, in due course, will advise the pilot whether or not the NSF is approved, together with any special conditions and a contact frequency for the ATC Unit concerned. Pilots should not call for an approval directly on an operational ATC frequency. This is particularly important in the case of frequencies in use by London Terminal Control (Swanwick) or London Area Control (Swanwick).

4.1.2.1.3 In the case of NSFs affecting Airspace for which London Terminal Control (Swanwick) is responsible, it may sometimes be necessary for the pilot to land at a convenient aerodrome and telephone Terminal Control Senior Watch Assistant to discuss the requirements of the task in detail.

4.1.2.1.4 Operators are to note that in no circumstances can any discussion be entered into on any frequency in the event that permission is refused or withdrawn.

4.1.3 ATC clearance does not imply exemption from the requirements of the Air Navigation Order (ANO) or the Rules of the Air Regulations. Applications for flights which require exemption or written permission under the ANO are to be forwarded to:

Post: The Civil Aviation Authority,
Flight Operations Division, Aviation House, Gatwick Airport South, West Sussex, RH6 0YR.

4.1.4 Because of the nature of ATC operations (and notwithstanding the requirements of GEN 1.5, paragraph 5.3 concerning the carriage of SSR transponders), the approval of an application for a Non-Standard Flight will depend on the carriage of SSR transponder equipment normally with Mode C.

4.1.5 Due to the inherent difficulties of handling a formation flight in a busy traffic situation, pilots should be aware that it may not always be possible to issue an ATC clearance at the time requested.

ENR 1.1 GENERAL RULES (continued)

4.1.6 **Enhanced Non-Standard Flights (ENSFs) - Entry into EGR156 (Windsor Castle)/EGR157 (Hyde Park)/EGR158 (City of London)/EGR159 (Isle of Dogs) Restricted Areas**

4.1.6.1 For those aircraft not already exempted (see individual entry for Restricted Area at ENR 5.1), ENSFs are required for flights within EGR156, EGR157, EGR158 and EGR159. Requests should be made using the NSF website (www.nats.co.uk/nsf) as detailed at paragraph 4.1.1.1 giving a minimum of 28 days notice. Any modification to a previously approved ENSF application shall give a minimum of 28 days notice from the date of modification.

4.1.6.2 ENSFs are subject to security considerations by the Metropolitan Police and may be refused on public interest grounds.

4.1.6.3 Once the security process is complete and London Terminal Control (Swanwick) provisional ATC approval in principle is granted, an 'ENSF Notification - Approval' form will be returned to the operator. Details of how to obtain a Metropolitan Police authorisation number for an ENSF and the ATC tactical approval on the day of flight are detailed on the 'ENSF Notification - Approval' form.

4.1.7 **Single-Engine Fixed Wing Aircraft Over Central London**

4.1.7.1 With the exception of the Northolt RMA and the Local Flying Areas at Denham and Brooklands (see AD 2.EGLL AD 2.22), NSF or ENSF permissions will not be granted to single-engine fixed wing aircraft requesting to operate within those parts of the London and London City Control Zones between a North-South line extending through the LON DME and a North-South line extending through the LCY NDB. In accordance with a directive from the CAA Safety and Airspace Regulation Group (SARG), applications which fall within the above criteria will be refused upon application to the NSF Coordinator due to the inability of such aircraft, in the view of the CAA, to be able to comply with SERA.3105 Minimum Heights.

4.1.8 **Unmanned Aircraft Systems (UAS)**

4.1.8.1 Any unmanned aircraft flight within a Flight Restriction Zone (FRZ) requires permission from the relevant ATSU or aerodrome operator using the appropriate process. Permission to operate within an FRZ should be obtained from the aerodrome directly, or through a suitable electronic service.

4.1.8.2 Permission to operate within the FRZ must be issued by either:

a) The ATC Unit; or
b) The Aerodrome Flight Information Service (AFIS), if no ATC or outside the operating hours of ATC; or
c) The Aerodrome Operator, if there is no ATC or AFIS, or outside the operating hours of ATC or AFIS.

4.1.8.3 The FRZ consists of:

a) A zone with the same dimensions as the notified Aerodrome Traffic Zone (ATZ); and
b) The Runway Protection Zones (RPZ); and
c) Any Additional zones, defined in the AIP.

All elements of the FRZ are active H24, regardless of the hours of operation of the aerodrome, or the ATZ activation.

4.1.8.4 Protected Aerodromes are those which are certified, Government, national licensed or otherwise as specifically prescribed. A list of aerodromes which are certified aerodromes and national licensed can be found within the AIP Aerodrome section (Part 3 AD 2).

A list of Government aerodromes can be found in the Military AIP.

4.1.8.5 A permission to operate within an FRZ is given conditionally upon the unmanned aircraft operation remaining entirely within the limits of the stated lateral and vertical operating area and that no safety assurance against other UAA taking place in the same area is given or implied. Compliance with the UK Air Navigation Order is required at all times.

4.1.8.6 Unmanned aircraft flights above 400 FT require a CAA authorisation, including those within an FRZ, which will also require permission from the aerodrome. A CAA authorisation to operate above 400 FT does not guarantee permission will be given by an aerodrome for the operation.

An A/G Radio service operator may not grant permission for an unmanned aircraft to operate within the FRZ.

Government aerodromes retain the right to refuse unmanned aircraft flight above 400 FT. To seek approval for any activity above 400 FT, early liaison with Government aerodromes is advised.

4.1.8.7 Operators are reminded of the applicability of the new UAS regulations, which are applicable from 31 December 2020. Further

details can be found in CAP 722.

4.1.8.8 FRZ Permission Requirement Summary.

This table summarises when a permission is required from an aerodrome to operate within an FRZ. Other authorisations from the CAA may also be required.

Within the FRZ	Within Operating Hours of Air Traffic Control Unit (ATC) or Aerodrome Flight Information Service (AFIS)	Outside Operating Hours of ATC/AFIS (or no ATC/AFIS present)
400 FT or Below	Permission required from ATC/AFIS unit	Permission required from aerodrome operator
Above 400 FT	Authorisation required from CAA UAS Unit AND Permission required from ATC/AFIS Unit	Authorisation required from CAA UAS Unit AND Permission required from aerodrome operator

4.1.8.9 It is highly recommended that, when an unmanned aircraft flight takes place at 400 FT or more above aerodrome level, within an FRZ, outside the ATZ, this shall be notified by NOTAM or other appropriate means, which can be requested via AROps@caa.co.uk. This will normally be stated as a condition within the CAA authorisation to operate above 400 FT. Upon application for an unmanned aircraft flight within such an area, the aerodrome operator or ATSU should direct the applicant to the CAA to request a NOTAM, in addition to their own permission. A NOTAM issued for such a flight does not constitute permission to operate within an FRZ, this must still be obtained from the aerodrome operator or ATSU as appropriate. Any NOTAM request for such an operation, submitted to the CAA should include either documentation of the permission to operate within the FRZ, or an agreement in principle, to operate within the FRZ.

4.1.8.10 It is highly recommended that, when any unmanned aircraft flight is permitted anywhere within an FRZ outside the hours of operation of any ATSU at the aerodrome, this shall be notified by NOTAM or other appropriate means which, for the portion of the RPZ outside the ATZ, can be requested via AROps@caa.co.uk.

4.1.8.11 UAS Operators should note that the AROps@caa.co.uk email address is not an H24 service and operates within normal office hours. NOTAMs may be requested by aerodromes for UAS operations within the ATZ portion of the FRZ directly to the NOF. NOTAMs for flights outside the ATZ portion of the FRZ must be obtained by the AROPS@caa.co.uk email address. Aerodromes which are not licensed may request NOTAMs from the NOF. All operations should be planned with sufficient notice to achieve a NOTAM where necessary.

4.1.8.12 There may be occasions where, for urgent operational reasons, UAS operations need to occur within an FRZ at short notice, for example, an emergency police response. The requirements outlined in paragraphs 4.1.8.1 to 4.1.8.8 still apply, and permission must be sought. Paragraphs 4.1.8.9 to 4.1.8.11 are advisory, and must be followed where possible. Emergency service operations responding to an incident with little notice, may elect not to issue a NOTAM if it is not possible.

4.1.8.13 FRZ NOTAM Requirement Summary.

	Within Operating Hours of Air Traffic Service Unit (Air Traffic Control, Aerodrome Flight Information Service or Air Ground Radio service)		**Outside Operating Hours of Air Traffic Service Unit** (Air Traffic Control, Aerodrome Flight Information Service or Air Ground Radio service)	
	Below 400 FT	**Above 400 FT**	**Below 400 FT**	**Above 400 FT**
ATZ Portion of FRZ			NOTAM (Requested by aero-drome via NOF)	NOTAM (Requested by aero-drome via NOF)
Portion of FRZ outside the ATZ		NOTAM (requested in advance via AROps@caa.co.uk)		NOTAM (requested in advance via AROps@caa.co.uk)

Note: *There may be occasions other than the circumstances described above, when a NOTAM is required. These should be determined by the UAS operator, the CAA and the aerodrome where appropriate. Such circumstances include the flight of larger unmanned aircraft, or BVLOS operations.*

4.1.8.14 In the event that a UAS operator requests permission to operate within two or more FRZs simultaneously, where they overlap, permission must be requested from all aerodromes concerned. Any one aerodrome may not give unilateral permission for the flight to occur, unless such an agreement is in place between the aerodromes.

4.1.8.15 An aerodrome may only issue a permission to a UAS operator to access their FRZ, and may not issue a permission for an entire UAS operation, which may require additional authorisations from the CAA and other agencies.

4.1.8.16 Flights by unmanned aircraft into Restricted Areas EGR156, EGR157, EGR158 and EGR159 within the London and London City

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Control Zones require specific approval via the ENSF process (see paragraph 4.1.6).

4.1.9 **Unusual Aerial Activities Both Within and Outside Controlled Airspace**

4.1.9.1 Normally, requests for the approval of Unusual Aerial Activities remaining within Controlled Airspace at all times are treated by the controlling authority as Non-Standard Flights.

4.1.9.2 Requests for the approval of Unusual Aerial Activities (UAA) operating within Controlled Airspace (Class A-E) and Class G airspace are treated differently from the Non-Standard Flight (NSF) type. Such UAAs are more complex and time-consuming to resolve because of the need for additional negotiation needed between ATC and airspace users, and should be notified to ATC at the earliest opportunity. A UAA of this nature is processed by the CAA Airspace Regulation section, which consults all agencies affected, arranges NOTAM action, and publishes an Airspace Coordination Notice (ACN). The ACN details the agreements reached about the activity inside and outside Controlled Airspace and reflects the NSF approval issued by the relevant controlling authority.

4.1.9.3 Details of UAAs/NSFs operating within Controlled Airspace (Class A-E) and Class G airspace are to be submitted as per paragraph 4.1.2 with a copy to:

Post: Airspace Regulation (Utilisation),
Aviation House, Gatwick, RH6 0YR.
Phone: 01293-983880
Email: arops@caa.co.uk

4.1.10 **VFR Flight in Class C Airspace Above FL 195**

4.1.10.1 VFR flight by civil aircraft above FL 195 shall not be permitted unless it has been accorded specific arrangements by the appropriate ATS authority. VFR flight shall only be authorised:

a) In reserved airspace;
b) Outside reserved airspace up to FL 285, and then only when authorised in accordance with the procedures detailed for Non-Standard Flights in Controlled Airspace.

4.1.10.2 If utilising permanently established reserved airspace, the established booking procedures for that airspace should be followed. If there is a need for the establishment of temporary reserved areas then procedures for conducting Unusual Aerial Activities in Controlled Airspace shall be followed as detailed in paragraph 4.1.9. Standing arrangements for temporary reserved areas for gliding in Class C airspace are shown at ENR 1.1, paragraph 1.11.

4.1.10.3 It is anticipated the demand for VFR access outside of an airspace reservation will be minimal. Such access will be accommodated within the context of safety, capacity and effect on the ATS network as a whole; consequently VFR access to the ATS route structure is only likely to be permitted in exceptional circumstances. In this case the appropriate civil ATC Unit will coordinate provision of ATS. Operators seeking to operate in such areas should contact the appropriate ACC Operations Department as detailed at paragraphs 4.1.1 to 4.1.5. Applications for VFR flight to avoid IFR ATS route flow restrictions will not be granted.

4.1.10.4 Operators seeking localised VFR flight above FL 195 not requiring reserved airspace and clear of the ATS route structure should contact the relevant Military Supervisor located at London Area Control (Swanwick) who will co-ordinate access arrangements and military ATC provision within unit capacity. Contact details are shown at paragraph 4.1.1.1 (d) and (e). Such flights shall only be permitted where procedures are established with the controlling authority.

Note: *Specific arrangements for gliding operations above FL 245 are shown at ENR 1.1, paragraph 1.11.*

4.1.11 **VFR Flight in Class C Areas of Delegated ATS**

4.1.11.1 Charts depicting these areas are detailed at ENR 6-2 pages. These delegated areas of ATS are busy international interfaces. Consequently, approval for VFR flight will only be granted in exceptional circumstances and after co-ordination with and agreement of the respective ATS provider. Applications for VFR access to these areas should in the first instance be made to AUS as detailed in paragraph 4.1.9.

4.2 Non Deviating Status (NDS)

4.2.1 NDS may be agreed by prior arrangement with the appropriate controlling authorities for certain flights within Controlled Airspace excluding in the UIR active Danger and Military Training Areas.

4.2.2 The requirement for NDS may be expressed as all, or part, of a notified flight profile and not merely for a constant heading and, or, flight level. Application for NDS should only be made where an inability to maintain specific track(s) and or flight level(s) could render a task operationally ineffective. NDS would not be appropriate for, nor would it be granted to, GAT aircraft carrying freight or passengers between destinations or GA aircraft general handling etc or in transit.

4.2.3 NDS affords priority of passage over all other OAT and GAT except for: aircraft in emergency; Royal Flights; Air Defence Priority

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Flights; GAT with higher civil priority category or other higher priority Special flights.

4.2.4 The Airspace Regulation (Utilisation) (AR(U), is the central authority for authorising NDS and is the focal point for NDS applications, inter unit negotiations and approvals.

4.2.5 AR(U) normally requires a minimum of 21 days notice of pre-flight requests for NDS in order to obtain agreement from the affected Air Traffic Service Units (ATSUs) and, or, Airborne Surveillance and Control (ASAC) Units. A request for NDS should include:

a) Operating authority, including a point of contact;
b) type of aircraft operation (e.g. flight trial, calibration etc);
c) reference number or other discrete nomenclature;
d) aircraft registration(s) and/or callsign(s);
e) details of flight(s);
   i. departure aerodrome and destination;
   ii. route or area;
   iii. profiles (if appropriate);
   iv. times;
   v. altitudes or Flight Levels;
   vi. facilities to be used (if appropriate);
   vii. any non-ATC agencies involved;
   viii. any specific requirements eg frequencies to be used etc.
f) details of any specific flexibility, limitation or critical aspect.

Shorter notice applications may be considered on merit, but AR(U) may direct aircraft operating authorities to refer their requests for NDS direct to the appropriate ATSU(s) or ASAC unit(s) involved if the application cannot be processed in time by AR(U).

4.2.6 Units will attempt to agree to short notice requests for NDS but, if given insufficient time, may decline or modify the request. Profile adjustments may, in any event, need to be negotiated if such changes would result in less disruption to other traffic.

4.2.7 Flights granted NDS will remain under radar control or procedural service. If in the interest of flight safety it should become necessary to give NDS flights avoiding action, such instructions from a controller are **Mandatory.**

4.3 Unusual Aerial Activities (UAA) Outside Controlled Airspace

4.3.1 A UAA may constitute a hazard if pilots of non-participating aircraft are not aware that it is taking place. The Civil Aviation Authority and in particular Airspace Regulation (Utilisation) (AR(U)) require appropriate prior notification of a UAA to enable either AR(U) to co-ordinate and notify the event, or for the Authority to issue a Permission or Exemption under the Air Navigation Order (ANO) and the Regulations. Event or display organisers are advised to utilise the CAA Publication CAP 403 'Flying Displays and Special Events: A Guide to Safety and Administrative Arrangements'. The document is available from The Stationery Office (Tel: 0870-6005522) and on the CAA web site: http//www.caa.co.uk/publications

4.3.2 Individual participating pilots are advised to check that the event or display organiser has made proper application for any required Permission or Exemption.

4.3.3 While there are many types of UAA, most fall within one of the following categories:

a) A concentration of aircraft significantly greater than normal, e.g. a Rally or Fly-in;
b) Activities requiring the issue of a Permission or an Exemption from the ANO and the Regulations, e.g. low flying near assemblies of people, the dropping of articles or parachutists, or balloon or kite flying;
c) Air Shows, Displays, Air Races and other aeronautical competitions, aerial surveys and avoidance of ground events and hazards;
d) Activities requiring the establishment and approval of a temporary ATC Unit. (See CAP 670 'ATS Safety Requirements' and CAP 403 for requirements and recommendations). In the case of the provision of a Flight Information Service (FIS) at a temporary FIS Unit refer to CAP 797 'Flight Information Service Officer Manual' and CAP 1032 'Aerodrome Flight Information Service Officer Licensing'. All are available on the CAA web site, as above.

4.3.4 All event or display organisers wishing to arrange a UAA are to use the standard notification forms SRG 1303 (Flying Display Notification Form) or SRG 1304 (Special Events and Unusual Aerial Activity Application Form) as appropriate.

4.3.5 The length of notice required by the Authority and AR(U) is as follows:

a) UAA at a licensed aerodrome or site where a temporary aerodrome licence is required - 60 days;
b) UAA at an aerodrome or a site where an aerodrome licence is not necessary - 42 days;
c) If an activity is intended to attract more than 100 aircraft it is essential that proposals are discussed with both the Aerodrome Standards Department (ASD) and the appropriate Regional Manager - Air Traffic Services (ATS) prior to any firm arrangements being made. These discussions should be initiated at least **90 days** prior to the date of the Activity. If the organiser has any doubt on the level or type of Air Traffic Service that should be provided, he/she is strongly recommended to contact the relevant Regional Manager (ATS) for guidance;

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d) If it is intended to establish a Temporary Air Traffic Control Unit (ATCU) at an event, it is essential that organisers refer to the document CAP 670 'ATS Safety Requirements' which contains comprehensive information and requirements for the establishment of such a unit. This document is available on the CAA web site: http//www.caa.co.uk/publications

A provider of Air Traffic Control must be nominated and he/she is required to apply to the appropriate CAA ATSSD Regional Office in advance of the event for unit approval. A copy of the proposed Manual of Air Traffic Services Part 2 (MATS Part 2) should be submitted as soon as possible but no later than 60 days before the event. The format of the MATS Part 2 is laid out in CAP 670 - Part B, Section 2, Annex A to ATC 02 with further information in Part B, Section 1, APP04, Page 3.

Established ATS Units intending to hold a Flying Display or Special Event are required to notify their ATSSD Regional office if the event requires changes to safety related procedures at that unit.

Copies of Form SRG 1417, which also may be used for the application for a temporary VHF frequency, are available from CAA ATSSD Regional Offices or on the CAA web site. A minimum of 90 days notice is required for a temporary assignment of VHF aeronautical channels.

Note: *Air Traffic Services Standards Department (ATSSD) - Regional Offices*

Post: Regional Manager ATS
Southern Regional Office, Floor 2W, Aviation House, Gatwick Airport South, West Sussex RH6 0YR.
Phone: 01293-573426.
Fax: 01293-573974.

Post: Regional Manager ATS
Central Regional Office, Manchester International Office Centre, Suite 5, Styal Road, Wythenshawe, Manchester M22 5WB.
Phone: 0161-499 3055 x242.
Fax: 0161-499 3048.

Post: Regional Manager ATS
Northern Regional Office, 7 Melville Terrace, Stirling, FK8 2ND.
Phone: 01786-431400.
Fax: 01786-448030.

Post: ATS Standards Department, Aviation House, Gatwick Airport South, West Sussex RH6 0YR.
Phone: 01293-573329.
Fax: 01293-573974.

See chart at ENR 6-6 for Area of Responsibility of the ATSD Regional Offices.

4.3.6 Display organisers and pilots are advised that, although every effort will be made to deal with late notification forms, no guarantee can be given that they will be processed in time for the event.

4.3.7 Forms SRG 1303 and SRG 1304 can be obtained from the CAA website, and when completed should be returned to:

Post: Civil Aviation Authority, General Aviation Department, 1W, Aviation House, Gatwick Airport South, West Sussex RH6 0YR
Phone: 01293-573227 / 573517 / 573525
Fax: 01293-573973

To arrive at least 28 days before the event, a copy of the form should be sent to:

Post: Airspace Regulation, Aviation House, Gatwick, RH6 0YR
Phone: 01293-983880
Email: arops@caa.co.uk

4.3.8 Event or display organisers should note that whenever military aircraft participate in a civil aviation event, the Ministry of Defence (MoD) requires the organiser to complete a special questionnaire which is separate from, and additional to, the notification required by the Authority. Event organisers will receive copies of the military questionnaire from the MoD when the military participation is confirmed. The completed questionnaires are to be sent to AR(U).

4.4 Royal Flights

4.4.1 **Introduction**

4.4.1.1 A Royal Flight within UK airspace is defined as the movement of an aircraft specifically tasked to carry one or more members of The Royal Family afforded such status by the Director of Royal Travel, The Royal Household.

4.4.1.2 When so directed by the Civil Aviation Authority (CAA) Group Director, Safety & Airspace Regulation Group (GD SARG) or Head of Airspace, Aerodromes and Air Traffic Management (Hd AAA) certain flights within UK airspace by reigning Sovereigns and Heads of State of foreign countries and, where appropriate, Prime Ministers of Commonwealth countries may also be afforded

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Royal Flight status.

4.4.2 **Special ATC Arrangements for Royal Flights in Fixed-Wing Aircraft**

4.4.2.1 **Establishment of Temporary (Class D) Controlled Airspace (CAS-T)**

4.4.2.1.1 Royal Flights in fixed-wing aircraft will, whenever possible, take place within the national ATS route structure. Standard ATC procedures shall be applied to Royal Flights when operating in permanent Class A, C and D Airspace. In all other instances, the airspace around the route will be designated CAS-T.

4.4.2.1.2 CAS-T of appropriate height/width bands, and levels, will be established to encompass any portion of the track and flight level of the Royal aircraft that lies **outside** of permanent Class A, C and D Airspace or transits through an active Military TRA. Temporary Control Zones and Control Areas will be established, where not permanent/extant, around airfields, with an appropriate level of service provision, used for the departure or arrival of a Royal Flight.

4.4.2.1.3 Regardless of the prevailing meteorological conditions, aircraft shall only fly within CAS-T when ATC clearance has been obtained from the controlling authorities specified in the following sub-paras:

a) **Temporary Control Zones.** Temporary Control Zones, Class D, will be established, where appropriate, around airfields of departure and destination where no permanent control zones exist. Control Zones for Royal Flights will extend between 5 and 10 NM radius from the centre of the aerodrome from ground level to an upper level designated for each Royal Flight dependent upon the Royal aircraft type and the aerodromes surrounding airspace. The Control Zone will be established for a period (for outbound flights) of 15 minutes before, until 30 minutes after, the ETD of the Royal aircraft or, for inbound flights, a period of 15 minutes before, until 30 minutes after, the ETA of the Royal aircraft at the airfield concerned. Overall control of these Control Zones is to be exercised, as appropriate, by the Commanding Officer of a military airfield or the appropriate ATS authority of a civil airfield.
b) **Temporary Control Areas.** Temporary Control Areas, dimensions and duration thereof, will be established to meet the specific requirements of a Royal Flight. The controlling authority will be the appropriate civil or military ATCC.
c) **Permanent Control Zones and Areas.** The controlling authority will be the designated controlling authority for the Permanent Control Zone or Area and the duration will be as laid down in sub-paras 4.4.2.1.3 (a) and (b). Where an airfield has its own Control Zone, then the requirement to establish a Temporary Control Zone of the dimensions specified in para 4.4.2.1.3 (a) may be waived. The ATC Supervisor is to ensure that, when a Royal Flight is active or expected in the same airspace, Special VFR clearances stipulate conditions that provide separation standards against the Royal Flight mirroring IFR separation standards (para 4.4.2.2.2 refers).
d) **Temporary Controlled Airways.** Class D airways will be established to join temporary or permanent Control Zones or Control Areas, as appropriate. Class C airways will be established for transit through an active TRA. Such airspace will be established for 15 minutes before ETA at the start point of the temporary airway until 30 minutes after ETD from the end/ departure point of the temporary airway. The lateral dimensions of such airways will be 5 NM each side of the intended track of the Royal Flight and vertical limits will be designated as required. The controlling authority will be the appropriate civil or military ATCC.

4.4.2.1.4 A Temporary Control Zone, Area or airway may be cancelled at the discretion of the Military Commander or Civil ATC Supervisor, as appropriate, when the Royal aircraft has left the temporary zone, area or airway and is established en-route in permanent Class A, C or D Airspace, or has landed.

4.4.2.1.5 Training Flights, including parachute-training flights, by any member of The Royal Family planned and carried out under VFR or IFR, and under the control of an ATCRU or aerodrome radar, will normally be classified as Royal Flights. CAS-T, where required, will be established as agreed by the aircraft operating organisation and CAA Airspace Regulation (Utilisation).

4.4.2.2 **Procedures Applicable to Royal Flight CAS-T**

4.4.2.2.1 CAS-T will be notified as Class C or Class D Airspace; applicable access criteria and separation standards apply.

4.4.2.2.2 Flights may operate in accordance with SVFR as described in ENR 1.2 para 2 of the UK AIP and CAP 493 (Manual of Air Traffic Services) Part 1, Section 1, Chapter 2, Para 8, within CAS-T CTRs.

4.4.2.2.3 CAS-T established outside of existing Class A/C Airspace is hereby notified respectively as either Control Zones or Control Areas (as appropriate) as defined in the UK Air Navigation Order.

4.4.2.3 **Promulgation of Royal Flight Information**

4.4.2.3.1 Dissemination of information concerning a Royal Flight is made via a Notification Message on a Royal Flight Collective, giving full flight details. Information on the establishment of CAS-T, including vertical limits, is promulgated by NOTAM.

4.4.3 **Royal Flights in Helicopters**

4.4.3.1 CAS-T is not normally established for Royal Flights in helicopters, but a degree of protection is provided by the establishment of

ENR 1.1 GENERAL RULES (continued)

a Royal Low-Level Corridor (RLLC).

4.4.3.2 A RLLC is marked by a series of waypoints and will be promulgated by Notification Message and are applicable to military aircraft only.

a) Waypoints, approximately 20 minutes flying time apart, will coincide with turning points. The Notification Message will indicate the ETDs/ETAs for given check-points.
b) Within the RLLC, protected sectors, applying to military aircraft only, are established extending 5 NM either side of the helicopter's intended track and from ground level up to 1000 FT above the maximum cruise altitude.
c) In accordance with Military Regulations (RA 3237), prior to entering and when operating inside RLLCs, controllers and pilots of military aircraft should ensure that the military aircraft is in receipt of an ATS (either under Visual Flight Rules (VFR) or Instrument Flight Rules (IFR)) from:

i. The same Air Traffic Control (ATC) unit that is controlling the Royal Helicopter; or
ii. Another ATC unit that has established radar contract with the Royal Helicopter.

d) In addition to the requirements at 4.4.3.2(c), standard separation should be applied between military aircraft and the Royal Helicopter in accordance with Military Regulation RA 3228, with the following exceptions:

i. Light aeroplanes and helicopters operating under VFR with an Indicated Air Speed of 140 KT or less should be provided with sufficient traffic information to assist the military pilots to keep well clear of the Royal Helicopter; or
ii. Military aircraft operating VFR above 140 KT with the approval of the Royal Helicopter Commander.

4.4.3.3 The Notification Message will include a list of nominated aerodromes from which pilots may obtain information on the progress of the Royal Helicopter.

4.4.4 **Royal Flight Callsigns**

4.4.4.1 The flight plan aircraft identification and the radiotelephony designators for flights flown in aircraft of No. 32 (The Royal) Squadron, the King's Helicopter Flight (TKHF) or in civilian chartered aircraft are as follows:

a) **Royal Flights.** Royal flight callsigns are as follows:

i. **No. 32 (The Royal) Squadron (See note).** The 3-letter operator designator KRF followed by an identification number and the letter R, eg KRF 1R, and the radiotelephony callsign 'KITTYHAWK' followed by an identification number and the letter R.
ii. **TKHF.** The 3-letter designator TKF followed by an identification number and the letter R, eg TKF 1R, and the radiotelephony callsign 'RAINBOW' followed by an identification number and the letter R.
iii. **Civilian Chartered Aircraft.** The 3-letter designator KRH followed by an identification number and the letter R, eg KRH 1R, and the radiotelephony callsign 'SPARROWHAWK' followed by an identification number and the letter R.

b) **Flights by Passengers entitled to CAA Priority.** Callsigns for flights by aircraft carrying passengers entitled to CAA priority are as follows:

i. **No. 32 (The Royal) Squadron (See note).** The 3-letter operator designator KRF and the radiotelephony callsign 'KITTYHAWK' followed by an identification number.
ii. **TKHF.** The 3-letter operator designator TKF and the radiotelephony callsign 'RAINBOW' followed by an identification number and the letter S.
iii. **Civilian Chartered Fixed-wing Aircraft.** The 3-letter operator designator KRH and the radiotelephony callsign 'SPARROWHAWK' followed by an identification number.
iv. **Civilian Chartered Rotary-wing Aircraft.** The 3-letter operator designator KRH and the radiotelephony callsign 'SPARROWHAWK' followed by an identification number and the letter S.

c) **Positioning Flights.** Callsigns for positioning flights are as follows:

i. **No. 32 (The Royal) Squadron (See note).** The 3-letter operator designator RRF and the radiotelephony callsign 'KITTY' followed by an identification number.
ii. **TKHF.** The 3-letter operator designator will be TKF and the radiotelephony callsign 'RAINBOW' followed by an identification number.
iii. **Civilian Chartered Fixed-wing Aircraft.** The normal aircraft callsign will be used.
iv. **Civilian Chartered Rotary-wing Aircraft.** The 3-letter operator designator KRH and the radiotelephony callsign 'SPARROWHAWK' followed by an identification number.

d) **Other Flights by Aircraft of No. 32 (The Royal) Squadron (See note).** All other flights carried out by No. 32 (The Royal) Squadron will use the 3-letter designator RRR and the radiotelephony callsign 'ASCOT' followed by the required identification number.
e) **Helicopters flown by HRH The Duke of York.** For helicopters of TKHF flown by HRH The Duke of York, the 3-letter operator designator will be LPD and the radiotelephony callsign will be 'LEOPARD'.

Note: *The rule also applies whenever No. 10 Squadron or No. 216 Squadron aircraft are being utilised for Royal/VIP flights.*

ENR 1.1 GENERAL RULES (continued)

4.5 Observation Flights Conducted Under the Treaty on Open Skies

4.5.1 Introduction

4.5.1.1 The Treaty on Open Skies was signed on 24 March 1992 by 25 Countries, including the UK, to promote greater transparency in military activities and thereby enhance international security. The Treaty has now been expanded to include 27 Countries. To fulfil its obligations under the terms of the Treaty, the UK is committed to accept Observation Flights by Observation Teams from any of the signatory Countries over **any** part of UK territory, including Controlled Airspace.

4.5.2 Observation Flights

4.5.2.1 Observation Flights may be conducted from RAF Brize Norton and Glasgow Prestwick Airport.

4.5.2.1.1 Occasionally, an Observation Flight may overfly several Western European Union (WEU) Countries in one mission – Combined Observation Flight. In this case, the Observation Flight could commence and/or end within the UK, or merely overfly the UK during the mission. Additionally, a refuelling stop within the UK may be required.

4.5.2.1.2 The aircraft used during the Observation Flight may be provided by either the UK or the visiting Country. In either case, a UK Flight Monitor will always be available on the flight deck to act as an interface with ATC agencies.

4.5.2.2 Although His Majesty's Government will receive at least 3 days notice of the arrival of an Observation Team within the UK, the intended route and profile of the Observation Flight (Mission Plan) will not be known until approximately 24 hours prior to commencement. Upon receipt of the Mission Plan, the Airspace Regulation (Utilisation) (AR(U)) will initiate any Danger Area closure action and notify details of the route to the appropriate ATC agencies by means of an Airspace Co-ordination Notice (ACN). AR(U) will also take NOTAM action to notify other agencies and airspace users.

4.5.2.3 Under the terms of the Treaty, aircraft undertaking Observation Flights are to be afforded due priority over other aircraft, **(see Note 1)** . Observation Flights within UK airspace are therefore granted Category B Status (as detailed in MATS Part 1, Section 1, Chapter 4, para 10C). In addition, when within Controlled Airspace, flights are to be afforded non-deviating status (ENR 1.1.4.2), and when outside of Controlled Airspace, as far as possible flights are to be afforded priority over all other aircraft except those in an emergency or performing roles where the safety of life is involved.

4.5.2.4 All Observation Flights within UK airspace shall be conducted in compliance with published National ATC rules, procedures and guidelines on flight safety, **(see Note 2)** .

4.5.2.5 For flight safety reasons and to assist in affording priority over other traffic, whilst operating in Class G Airspace, Observation Flights are strongly recommended to remain within the bounds of radio and radar coverage. In addition, to enable the UK air traffic control authorities to meet their responsibilities in accordance with the Open Skies Treaty, in particular the preservation of flight safety, and the prioritisation obligation in Article VI, Section I, paragraph 15, Observation Flights operating in the Scottish Highlands Area are to operate under Instrument Flight Rules (IFR) and remain above the IFR Minimum Levels over high terrain as detailed in SERA.5015(b)(1).

4.5.2.6 The Open Skies Scottish Highland Area is within the area bounded by straight lines joining the following coordinates: 555300N 0050000W – 560400N 0045200W – 560100N 0044200W – 565400N 0022900W – 572800N 0025300W – 572600N 0044000W – 573700N 0043100W – 581300N 0032800W – 583500N 0045500W – 571200N 0062100W – 561800N 0061200W.

Note 1: *Treaty on Open Skies – Article VI Section 1, para 15.*

Note 2: *Treaty on Open Skies – Article VI Section 1, para 14.*

4.6 Special Flights

4.6.1 Introduction

4.6.1.1 Special Flight Notifications (SFNs) can be applied to a variety of special aerial tasks which may take place throughout an extended period of time. The most common are Police Authority Air Support Unit (ASU) and Air Operations Unit (AOU) flights, Helicopter Emergency Medical Service (HEMS) flights and HM Government-sponsored flights, (including Ministry of Defence and other flights). The nature of SFN flights is such that they will often require to be afforded priority over most other flights.

4.6.1.2 The purpose of an SFN is to ensure that those ATC agencies likely to provide services to the subject aircraft are aware of any special handling requirements, and that aircraft operators are aware of the conditions under which priority over most other flights is afforded.

4.6.2 Content

4.6.2.1 SFNs will contain details of:

a) The purpose of the subject flight.

ENR 1.1 GENERAL RULES (continued)

b) The priority(ies) of the subject flight, to be in accordance with flight categories defined at CAP 493 Manual of Air Traffic Services Part 1, Section 1, Chapter 4 and as authorised by the CAA as follows:

   i. Police Authority ASU and AOU flights - Category A (Police Emergencies), Category B (the normal operational priority) or Category Z (training, test and other flights involving Police Authority aircraft).
   ii. HEMS flights - A, E or Z as described in AIC Y 9/2014 dated 20 February 2014.
   iii. HM Government-sponsored flights, subject to the nature of the activity but usually Category B for special surveys. Category E applies to time-critical test and training flights, Category Z to all routine training, test and other flights.

c) The period(s) during which flights may take place.
d) The period of validity of the SFN.

   i. A Special Flight Notification should normally be issued for no longer than twelve months from the date of issue.
   ii. Exceptionally, subject to the approval of the NATS SFN Co-ordinator and the CAA, this period may be extended to no longer than fifteen months from the date of issue when the period of operation of the flight is expected to be longer than twelve, but no longer than fifteen months from the date of issue and/or to assist in the timely administration of notices of renewal.

e) The name of the operator and the type of aircraft.
f) The callsign(s) to be used and the main operating base(s).
g) The routine operating area of the activity.
h) The operating level (or levels), where appropriate to include minimum and/or maximum levels and/or level bands.
i) The minimum weather criteria required for the particular operation.
j) Points of contact for the operator and ATC agencies responsible for the area in which the flight is to be undertaken.
k) The rules under which the aircraft captain is to operate the aircraft.
l) Available communications and (if applicable) discrete SSR codes to be used.
m) Pre-flight notification and co-ordination requirements for the flight, to include the minimum pre-notification period where appropriate or possible.
n) The action by the aircraft captain in the event of loss of communications (AIP ENR 1.1, subsection 3 refers to basic national procedures).
o) Any special considerations.

4.6.3 **Promulgation**

4.6.3.1 Responsibility for the drafting, amendment, promulgation and distribution of SFNs is vested in the NATS SFN Co-ordinator. All queries concerning, and requests for, Special Flight Notification are to be submitted to the:

Post: NATS SFN Co-ordinator, Room 3115/Box 3115, London Area Control (Swanwick), Sopwith Way, Swanwick, Hants, SO31 7AY
Phone: 01489-444182 (alternate 01489-444181)
Email: special.flights@nats.co.uk

4.6.4 **Enquiries**

4.6.4.1 All enquiries concerning SFN policy may be addressed to the CAA at:

Post: Airspace Regulation, Aviation House, Gatwick, RH6 0YR
Phone: 01293-983880
Email: arops@caa.co.uk

4.7 Civilian Formation Flights - ATC Procedures

4.7.1 **General**

4.7.1.1 ATC will consider formations to be a single unit for separation purposes provided that:

a) The formation elements are contained within 0.5 NM laterally and longitudinally, and within 100 FT vertically from the formation leader. Within Class G Airspace and subject to ATC approval, these limits may be increased to 3 NM and/or up to 1000 FT vertically.
b) For the purposes of SERA.3135(d) Formation Flights: Military aircraft flying in formation must be flown at a distance not exceeding 1 NM laterally and longitudinally and 30 M (100 FT) vertically from the leading aircraft in the formation.
c) The formation, although operating outside the parameters above, has NSF approval.

ENR 1.1 GENERAL RULES (continued)

4.7.1.2 The formation leader is responsible for ensuring safe separation between aircraft comprising the formation.

4.7.1.3 In making initial contact with the ATC unit, the formation leader shall clearly state the number of aircraft in the formation.

4.7.1.4 Where a flight plan is required, the identification of the formation leader and the number of aircraft in the formation must be shown.

4.7.1.5 All ATC instructions and clearances will be addressed to the leader.

4.7.2 **Controlled Airspace**

4.7.2.1 VFR formation flights by civilian aircraft transiting CTA/CTR/TMA are subject to the normal airspace requirements as detailed at ENR 1.4. All other civilian formation flights in Controlled Airspace are subject to NSF approval.

4.7.2.2 Formations in Controlled Airspace shall be contained within 1 NM laterally and longitudinally and at the same level. Where this is not possible, the formation must be split into individual elements before entering Controlled Airspace. In the event that aircraft within the formation are unable to maintain within these parameters, the formation leader must immediately inform ATC.

4.7.2.3 Prior to entering Controlled Airspace, the formation leader shall confirm that all aircraft within the formation are within 1 NM laterally and longitudinally, and if in level flight, are at the same level.

4.7.2.4 When a formation has been cleared to climb or descend in Controlled Airspace, the formation leader shall confirm that all elements have reached the new assigned level.

4.7.2.5 All aircraft in the formation are to monitor the relevant ATC frequency.

4.8 Air tests with Swanwick(Mil) within the London FIR.

4.8.1 All civil operators wishing to file an airtest using a service provided by Swanwick(Mil) must comply with the following guidance.

4.8.1.1 Ideally, an air test request form is to be sent prior to midnight (local) the day before the test; this is to ensure that Swanwick(Mil) is able to offer a deconfliction service for the civil operator against busy military flying periods. However, should this notice period not be possible, the request to Swanwick(Mil) is to be made no less than 2 hours prior to the airtest commencing. If requests are made with only 2 hours notice then these must be made as early in the day as possible; this is to enable controller workload planning. Requests made late in the day are at risk of postponement until the following day. All pilots should note that the provision of service to any civil airtest is always subject to potential short notice cancellation or delay in the event of unexpected military activity.

4.8.1.2 Captains of test flights are also requested to call the Swanwick(Mil) Supervisor on 01489-612408 (for flights east of the country) or 01489-612417 (for flights in the west), prior to engine start to ensure that the Unit has the capacity to provide an Air Traffic Service outside of the civil airways structure.

Note: *The above procedure should only be considered as a request for a service to be provided by Swanwick(Mil) and should not be construed as the filing of a flight plan. All normal flight plan procedures should be adhered to.*

ENR 1.1 GENERAL RULES (continued)

ANNEX A TO 3.01.18
CIVIL AIR TEST PROFORMA

Civil aircraft operators, including military contractors, should ideally inform 78 Squadron (78 Sqn), callsign Swanwick(Mil) of their requirements for a test flight at least 24 hours in advance. This is to deconflict between high intensity periods of military fast jet flying. Should this not be possible, the request to 78 Sqn is to be made no less than 2 hours prior to the air test commencing. 78 Sqn has reduced controlling capacity between 1800–0800(1700-0700) Mon to Fri and from 1700(1600) Fri to 0800(0700) Mon (extended until 0800(0700) on Tue following a Public Holiday); during these times operators should be aware they may be required to use the normal ATS network or reschedule their test flight.

This form is to be returned to 78 Sqn plans via email: swk-plans@mod.gov.uk If the request falls within the reduced capacity timings or under 24 hours in advance, please forward to the respective Supervisors inbox: SwanwickMilitary-East@nats.co.uk, SwanwickMilitary-West@nats.co.uk or SwanwickMilitary-North@nats.co.uk Upon approval, the reference number should be annotated on the flight plan.

OPERATORS ARE TO ENSURE THAT FLIGHT PLANS ARE ADDRESSED TO EGWDZQZX - FAILURE TO DO SO MAY RESULT IN A DELAY TO THE FLIGHT

Aircraft Operator								
Contact Telephone No								
Date	Day	Month	Year		Requested Date of Air Test	Day	Month	Year
Callsign					Aircraft Type			
RVSM Status								
Departure Aerodrome					Destination Aerodrome			
UTC					UTC			
Planned Manoeuvring Area								
Flight Profile								
1	FL (or level band)			Duration	mins	Remarks		
2	FL (or level band)			Duration	mins	Remarks		
3	FL (or level band)			Duration	mins	Remarks		
Detail Any Special Handling Requirements / Remarks								
Approved	Yes	No	Reference:		Date:			

Captains of test flights are requested to call the respective Supervisor, West (01489) 61 2417, East 2408 or North 2493 prior to engine start to ensure that the Sqn has the capacity to provide an Air Traffic Service outside of the ATS network.

CIVIL AIRTESTS ARE ACCEPTED SUBJECT TO MILITARY TRAFFIC LEVELS.

ENR 1.1 GENERAL RULES (continued)

4.9 Civil Air Tests within the London FIR and UIR

A test flight is a flight that takes place within CAS that uses the ATS Route network for purposes such as:
Maintenance flights, Demo flights, Fear of Flying flights, Northern Lights, Santa flights, Charity flights etc. This list is not exhaustive. Requests should be emailed to testflights@nats.co.uk with a minimum of 2 working days' notice. When submitting a request please ensure the following information is included:

1. Date of Flight;
2. Departure / Destination Aerodrome;
3. EOBT;
4. Callsign;
5. Aircraft Type;
6. RFL;
7. Requested Route (if known);
8. Duration required (if applicable);
9. Any special requirements (for example requirement for a block of levels to be reserved, or unusual manoeuvres);
10. Contact details.

Aircraft Operators may be requested to call the operation before EOBT to confirm final details. Approval for test flights will be subject to operational capacity/traffic and changes to FPLs requested after approval may not be accommodated.

For non-standard flights, please see section 4.1.

5 Special Use Airspace and Hazards to Flight

5.1 Special Use Airspace

5.1.1 **Overview**

5.1.1.1 Special Use Airspace (SUA) is defined as an airspace volume designated for specific operations, such as military training, exercises and operations, of a nature such that limitations on airspace access may be imposed on other aircraft not participating in those activities. SUA in the UK can be in the form of Prohibited Areas, Restricted Areas, Danger Areas, Temporary Segregated Areas, Temporary Reserved Areas or Cross Border Areas.

5.1.1.2 SUA adopts the background airspace classification within which it is situated. However, operating procedures inside the SUA may differ from those normally associated with that class of airspace. Pilots of aircraft entering SUA should ensure they are aware of the operating procedures prior to entering.

5.1.1.3 Permanent SUA structures are notified in ENR 5.1 and ENR 5.2. Some may be notified H24 but in the majority of cases will be activated in accordance with Flexible Use of Airspace principles, with fixed times in the AIP and/or activated by NOTAM.

5.1.1.4 Where non-permanent (temporary) SUA structures have been approved for use, these will be notified by NOTAM, AIC or AIP Supplement, and will normally be established for a maximum period of 90 consecutive days. Additional information may be provided in AICs or Briefing Notes. These SUA structures will also be operated in accordance with the flexible use of airspace principles where activation will only occur when needed by the SUA user. Note that this paragraph does not apply to 'temporary' as used in Temporary Reserved Areas or Temporary Segregated Areas which can be permanently established.

5.1.2 **Special Use Airspace Activities**

5.1.2.1 Danger Areas, Temporary Segregated Areas, Temporary Reserved Areas and some Restricted Areas encompass a variety of activities as annotated in the table below. However, not all activity descriptors are relevant to all SUA (for example, OME should only be conducted in a Danger Area). Details on the activities which may take place within each SUA are contained in the tables at ENR 5.1 and 5.2.

Activity Descriptor	Definition
Ordnance, Munitions and Explosives (OME)	Live or practice OME delivered from the surface or air (including delivery by parachute), including bombing, torpedo dropping, demolition, and explosions, and large rockets capable of operating below the stratosphere as defined in the Air Navigation Order 2016.
High Energy Manoeuvres	Single or multiple aircraft conducting high energy manoeuvres, including supersonic flight, that may result in pilot(s) not being able to comply with the Rules of the Air.
Unmanned Aircraft System Beyond Visual Line Of Sight (BVLOS)	An unmanned aircraft (UA) that is operated beyond a distance where the Remote Pilot is able to respond to or avoid other airspace users by visual means. For the purpose of applying a safety buffer to airspace design, Pilotless Target Aircraft are considered within this category.

ENR 1.1 GENERAL RULES (continued)

Activity Descriptor	Definition
Unmanned Aircraft System Visual Line Of Sight (VLOS)	An operation in which the remote pilot or RPA observer maintains direct unaided visual contact with the remotely-piloted aircraft.
Unmanned Aircraft System Beyond Visual Line Of Sight with an Indicated Airspeed (IAS) of 150 KTS or less (BVLOS less than 150 KTS)	An unmanned aircraft (UA) that is operated beyond a distance where the Remote Pilot is able to respond to or avoid other airspace users by visual means with an IAS of 150 KTS or less.
Para Dropping	Activities involving the dropping of articles or parachutists.
Target Towing	Aircraft towing targets with cable lengths which, although normally 6000 FT, may extend to 24,000 FT. Targets may be anything up to 2500 FT below the towing aircraft.
Balloons	Large Balloons that are either tethered or released.
Electronic/Optical Hazards	Hazards that may interfere with aircraft systems or present a hazard to aircrew, including electronic warfare training and lasers.
Test and Evaluation	Single or multiple aircraft conducting manoeuvres that may not be able to comply with the Rules of the Air.
Spaceflight Activities	Activities as defined in the Space Industry Act 2018.

5.1.2.2 It is emphasized that only the types of activities most likely to be encountered are listed. Areas will not be reserved for one type of activity only and various hazards may be encountered in one area simultaneously. The potential hazards of flying through active SUA without approval cannot be overstressed.

5.1.2.3 Pilots are reminded that aircraft in the towing configuration have right of way over other converging powered aircraft under the provisions of the SERA Section 3 – General Rules and Collision Avoidance for avoiding aerial collisions and pilots must realise that, although the cable and target may not be immediately apparent, this does not absolve them from giving way to the towing aircraft.

5.1.2.4 In the immediate vicinity of SUA in which military aircraft operate, many of those aircraft fly arrival, holding and departure patterns. Pilots of aircraft flying close to SUA are advised to keep an especially sharp lookout for such aircraft and, by taking any necessary evasive action (unless the rules for avoiding aircraft collisions require otherwise) in good time, permit them to continue their manoeuvres.

5.1.3 **Restriction of Flying Regulations**

5.1.3.1 The Secretary of State for the Department for Transport (DfT) is empowered under the UK Air Navigation Order (ANO) to make regulations prohibiting, restricting or imposing conditions on flight by civil aircraft in United Kingdom airspace and by any United Kingdom registered civil aircraft in any other airspace within which the United Kingdom, under international arrangements, has undertaken to provide navigational services to aircraft. Restriction of Flying Regulations are made only when the Secretary of State deems it necessary in the public interest.

5.1.3.2 **Prohibited Area** - airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited.

5.1.3.3 **Restricted Area** - airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions.

5.1.3.4 Prohibited and Restricted Areas established under these Regulations may be temporary or permanent. When time permits, details of temporary Prohibited and Restricted Areas are promulgated by Supplements to the UK AIP or AIC but in the case of Emergency Restriction of Flying Regulations (see paragraph 5.1.4) the information will be promulgated by NOTAM.

5.1.4 **Emergency Restriction of Flying Regulations**

5.1.4.1 Emergency Controlling Authorities (ECA) are established throughout the United Kingdom to deal with major emergencies, disasters or incidents that might occur anywhere within the boundaries of the two United Kingdom Flight Information Regions. The ECA may find it necessary, for the safety of life and particularly for the protection of the emergency services engaged in air or surface activities, to restrict flights by aircraft over the area concerned.

5.1.4.2 The first action normally taken will be the establishment of a Temporary Danger Area (TDA) around the scene of the incident. It should be noted that TDAs covering emergency incidents may be established only by the 78 Squadron Swanwick Military Distress and Diversion (D&D) Controller, on telephone number 01489-612691. Any request received by ATSUs for emergency flying restrictions to be established must be re-directed to the 78 Squadron Swanwick Military D&D Controller.

If the TDA fails to achieve the objective, statutory Restriction of Flying Regulations made under Article 239 of the Air Navigation Order 2016, which make it an offence for an aircraft to be flown in the designated area without the appropriate permission, may be brought into operation through the establishment of a Restricted Area (Temporary) (RA(T)). Such restrictions will be implemented through the UK Civil Aviation Authority's Airspace Regulation section. Details of the TDA and any subsequent RA(T)

will be notified as quickly as possible by NOTAM. Under certain circumstances, Restriction of Flying Regulations may be brought into operation without the prior establishment of a TDA.

5.1.4.3 The ECA, which will be identified in the relevant NOTAM, is the only authority that may grant permission for an aircraft to be flown within the designated area. Subject to any overriding considerations of safety, flights by aircraft directly associated with emergency action will invariably be given priority over those seeking to overfly the area for any other reason. Whenever possible, ATSUs in the vicinity of emergency incidents are requested to inform aircraft already airborne of the introduction of a TDA or RA(T). Details of RA(T)s will also be included on the NATS Aeronautical Information Service Freephone telephone number 08085-354802. Notification of the withdrawal of airspace restrictions will be published by NOTAM at the appropriate time.

5.1.4.4 Should a pilot see an emergency incident, which they believe may not have been previously notified, they should report the details to any ATSU by the quickest means possible.

5.1.4.5 To avoid any confusion between Air Traffic Controllers and Pilots, only the phrases 'Temporary Danger Area' or 'Restricted Area (Temporary)' are to be employed when describing temporary airspaces associated with the handling of emergency incidents.

5.1.5 **Danger Areas, Temporary Segregated Areas and Temporary Reserved Areas**

5.1.5.1 The publication of the policy for the Establishment and Operation of Special Use Airspace has changed some of the requirements for Danger Areas and Temporary Reserved Areas meaning some of the information in this section is no longer aligned with current policy. However, operations remain extant until reviewed and updated to align with the policy.

5.1.5.2 **Danger Area** - airspace of defined dimensions within which activities dangerous to the flight of aircraft may exist at specified times.

5.1.5.3 **Temporary Segregated Area** - a defined volume of airspace, temporarily segregated and allocated for the exclusive use of a particular user during a determined period of time and through which other traffic will not be allowed to transit.

5.1.5.4 **Temporary Reserved Area** - airspace that is temporarily reserved and allocated for the specific use of a particular user during a determined period of time and through which other traffic may or may not be allowed to transit in accordance with the air traffic management arrangements notified for that volume of airspace.

5.1.5.5 **Cross Border Area** - an Airspace Restriction or Reservation established over international borders for specific operational requirements. Cross Border Areas may come in the form of a Danger Area, Temporary Segregated Area or Temporary Reserved Area.

5.1.5.6 Danger Areas, Temporary Segregated Areas and Temporary Reserved Areas are established to provide protection for or from specific operations that are taking place within them. Certain aircraft operating within some of these areas may be unable to comply with certain elements of SERA (such as SERA.3135 Formation Flights, SERA.3201 General, SERA.3205 Proximity and SERA.3210 Right-of-Way). Pilots should not enter these areas unless they have approval to do so and are strongly advised to make use of an Air Traffic Service when operating in the vicinity.

5.1.5.7 Approved Agencies are units that are permitted to request the reservation of Special Use Airspace from an AMC and are referenced in the Remarks column of the relevant area in ENR 5.1 and ENR 5.2 as the ‘Contact: Booking’. Where the MAMC is described as the Approved Agency, the MAMC is responsible for ensuring only authorised users can reserve the Special Use Airspace. Entities not listed as an Approved Agency who wish to reserve AMC Managed Areas must seek approval from the relevant SUA Authority.

5.1.5.8 Permanent Danger Areas are tabulated at ENR 5.1. Temporary Segregated and Temporary Reserved Areas established on a permanent basis are tabulated at ENR 5.2.

5.1.6 **Danger Area Byelaws**

5.1.6.1 Unauthorised entry into many Danger Areas is prohibited within the period of activity of the Danger Area as listed at ENR 5.1 by reason of Byelaws made under the Military Lands Act 1892 and associated legislation. For those Danger Areas where Byelaws which prohibit entry apply, the Remarks column of ENR 5.1 includes the year and number of the relevant Statutory Instruments (SI). It should be noted that the geographical area of the Danger Area as presented in ENR 5.1 may not coincide with the areas defined within the associated SI. Information on the MOD SIs can be found at https://www.gov.uk/guidance/ministry-of-defence-byelaws or by contacting the MOD on 01276-412471.

5.1.6.2 ENR 5.1 contains details only of those UK Danger Areas that have an upper limit in excess of 500 FT above ground level. There are many ranges (rifle, small arms etc) with upper limits of 500 FT or less above ground level, see paragraph 5.3.1 Small Arms Ranges and details as listed at ENR 5.3. Pilots should therefore satisfy themselves that they are clear of such Small Arms Ranges when flying at or below 500 FT.

5.1.7 **Obtaining Information Regarding the Status of Special Use Airspace**

5.1.7.1 **Pre-flight information**
Pre-flight information on the status (active/not active) of SUA can be obtained from several sources such as the AIP ENR 5.1 and 5.2 and NOTAMs. Obtaining pre-flight information can help pilots plan their flight safely and efficiently. Pre-flight information is not

classified as a SUA Activity Information Service, which can be used to obtain information regarding the status of SUA while in flight, as described below. The existence of an SUA Activity Information Service does not absolve pilots from the responsibility of obtaining as much information as possible on a relevant SUA as part of normal pre-flight briefing procedures.

5.1.7.2 **SUA Activity Information Service**
A SUA Activity Information Service allows pilots to obtain an airborne update of the notified status (active/not active) of a SUA. Information obtained from a SUA Activity Information Service does not imply permission to enter SUA, but it can assist a pilot in determining if it safe to proceed where the SUA is established but not active. It is strongly emphasized that information obtained from a SUA Activity Information Service provider is only pertinent to the notified status (active/not active) of a SUA structure and is not a permission to cross that SUA, whether or not it is active. Phraseology to obtain a SUA Activity Information Service can be found in CAP 413.

5.1.7.3 Pilots are advised to assume that a SUA is active and remain outside if no reply is received from the appropriate SUA Activity Information Service provider.

5.1.7.4 A SUA Activity Information Service is not available to aircraft operating on ATS Routes and Upper Air Routes where such Routes cross SUA. For these situations procedures exist which are specifically detailed in relevant ATC Unit instructions.

5.1.7.5 **SUA Crossing Service**
A SUA Crossing Service allows pilots, when real time SUA activity or entry requirements permit, to obtain approval to enter or cross a SUA structure when it is notified as active. It should be noted that a SUA Crossing Service may be provided without reference to surveillance derived information. As such, the crossing/entry approval is only in relation to SUA activity and does not imply any coordination or aim to achieve separation minima. Separation minima and the provision of traffic information in relation to other traffic, either inside or operating close to the SUA, shall be in accordance with the classification of airspace and the specific ATS agreed between the pilot and ATC unit.

5.1.7.6 To obtain a SUA Crossing Service pilots should call the appropriate SUA Crossing Service provider on the relevant frequency. Where possible, the pilot should provide the ID or name of the SUA they wish to enter and an estimated entry time and level/ altitude. An entry approval will be dependent on the real time status of the activity within the active SUA and may include limitations, such as times or altitude, to ensure the aircraft remains outside of the SUA activity. Phraseology to obtain an SUA Activity Information Service can be found in CAP 413.

5.1.7.7 Details of SUA Activity Information Service and SUA Crossing Service providers, including frequencies, are included in the Remarks column of ENR 5.1 and ENR 5.2, as well as on the legend to chart ENR 6-75 (United Kingdom Airspace Restrictions and Hazardous Areas). The contact frequencies are printed on the legend of the 1:500,000 UK ICAO Aeronautical Charts.

5.1.8 **Pilotless Target Aircraft/Unmanned Aerial Targets**

5.1.8.1 Pilotless Target Aircraft/Unmanned Aerial Targets are operated and manoeuvred within certain SUA as indicated in the list at ENR 5.1.

5.1.8.2 Pilotless Target Aircraft/Unmanned Aerial Targets may be painted in a variety of colours including orange, black, or red and yellow and may be flown day and night in all weather conditions. Navigation lights are not always displayed and the aircraft occasionally trail smoke as a method for visual acquisition. They often trail flares and other decoys and may or may not be equipped with transponders depending upon type and mission profile. The size and speed of these aircraft/targets vary considerably ranging from 20 KG to hundreds of KG and speeds between 50 and 650 KT.

5.1.8.3 Within the EGD201 Aberporth Danger Areas, Pilotless Target Aircraft/Unmanned Aerial Targets are operated under the control of MoD Aberporth and the aircraft are flown in accordance with the instructions of ground based intercept controllers. Similar arrangements are in place at EGD701 Hebrides Danger Areas under the control of MoD Hebrides. Pilotless Target Aircraft/ Unmanned Aerial Targets are also flown within EGD115 Manorbier.

5.1.9 **Temporary Reserved Areas (TRA) established FL 195 - FL 245**

5.1.9.1 **Introduction**
The air traffic management arrangements vary for each TRA. The information contained in the following paragraphs (5.1.9.1 – 5.1.9.8) relate to TRAs 001 – 008.

5.1.9.1.1 In complying with the EC Regulation lowering Class C Airspace to FL 195, TRA between FL 195 and FL 245 have been established to accommodate various VFR airspace users, including military autonomous operational requirements, above FL 195. These TRAs may be used simultaneously by both civil and military aircraft, including aircraft in transit through the TRA. Operations will be conducted in accordance with the Rules of the Air and relevant requirements for equipment carriage and operation, or as agreed via the Unusual Aerial Activities regulations. Although the background classification between FL 195 and FL 245 within UK airspace is Class C, to avoid operational restrictions military aircraft may operate autonomously or be in receipt of an ATS from an approved unit.

5.1.9.1.2 Where other airspace structures, such as Controlled Airspace (ATS Routes), Danger Areas, etc, overlap a TRA the airspace structure with the more restrictive criteria is to take precedence.

5.1.9.1.3 The requirement for VFR operations by civil aircraft above FL 195 has been assessed to be very small. Therefore, other than the

schematic charts included at ENR 6-13, details of these TRAs will not be included in the CAA 1:500,000 chart series, but are represented on the military En-Route Low Altitude chart series, available from RAF AIDU, Customer Services Department, Tel: 020-8833 8587 or 020-8833 8209.

5.1.9.2 **ATS Routes**

5.1.9.2.1 Some ATS Routes exist within the lateral limits of TRAs 001, 002, 007 and 008 and are available during certain weekday periods and throughout weekends and PHs. Airspace users are to ensure they remain clear of these ATS routes unless they are in receipt of an appropriate Radar Control service. Details of such ATS routes are detailed in ENR 3.3.

5.1.9.3 **Air Traffic Services and Separation Requirements**

5.1.9.3.1 Class C requirements for the provision of ATS do not apply within these TRAs. ATS will be provided in accordance with UK Flight Information Services (UK FIS) by the appropriate military or civil Air Traffic Service Providers. Autonomous operations are permitted in TRAs in accordance with paragraph 5.1.9.7.

5.1.9.3.2 Airspace users are to note that the lateral limits of TRAs are coincident with adjacent Lower ATS routes. Aircraft operating within a TRA receiving a UK FIS will be advised of the proximity of aircraft operating within adjacent Class C Airspace and offered appropriate advice.

5.1.9.3.3 ATS above FL 195 will be provided by existing ACCs/ATCCs, approved military ATS and ASACS units and autonomous radar units in accordance with established operating limitations. Specified military ATS units may be authorised by the CAA to provide ATS within an active TRA to below FL 245 in accordance with the approval conditions. Unless approved by the CAA, provision of ATS by ATC Approach Units/Military ATC Terminal Units will be restricted to below FL 195.

5.1.9.4 **Operational Procedures**

5.1.9.4.1 Operations should normally be conducted on SPS (1013.2 mb).

5.1.9.4.2 IFR flights within a TRA should conform to the semicircular cruising levels at ENR 1.7 paragraph 6.1 within an active TRA.

5.1.9.4.3 Aircraft in receipt of a radar service may operate to the extremities of the TRAs and will be provided with advice from the controller that is appropriate to the service being received in order to remain clear of aircraft operating in adjacent Controlled Airspace.

5.1.9.4.4 Details for autonomous operations are included in the access requirements at paragraph 5.1.9.7.

5.1.9.4.5 Military airspace users and ANSPs should note that transponder equipped Gliders are permitted to enter TRA under appropriate ATS. However, gliders without transponders are only permitted to enter TRA (G) that have been specifically designed to cater for non-transponder equipped gliders. Airspace users and ANSPs should note that due to a CAA Safety Regulatory Requirement, no IFR traffic is permitted to enter a TRA (G) (except aircraft in emergency or Air Defence Priority Flights).

5.1.9.4.6 Glider access requirements to a TRA are detailed in ENR 1.1, paragraph 1.11.

5.1.9.4.7 Derogations from airborne carriage obligations of 8.33 KHz in Controlled Airspace above FL195 may be approved. Specific exemptions and arrangements for military aircraft operations in 8.33 KHz airspace are detailed separately in the Military AIP and ENR 1.8.

5.1.9.5 **VFR Weather Minima**

5.1.9.5.1 Unless pilots' licensing privileges impose more restrictive criteria, pilots are to maintain 1500 M horizontally, and 1000 FT vertically from cloud, and a flight visibility of 8 KM.

5.1.9.6 **Access Requirements**

5.1.9.6.1 **IFR**

a) A flight plan must be filed. Abbreviated flight plans are permissible in accordance with AIP ENR 1.10 and CAP 493, MATS Pt 1, Section 1, Chapter 2, Paragraph 10. Abbreviated Flight Plans will only be acceptable for military aircraft operating under the control of a military ATS or ASACS unit.
b) An ATC clearance must be obtained to fly within the airspace.
c) Radio contact must be maintained on the appropriate frequency.
d) The flight must be conducted in accordance with ATC instructions.
e) Aircraft in IFR transit through a TRA from/to adjacent CAS will be in receipt of an ATC service and will not require to obtain an additional ATC clearance to transit the TRA.
f) Traffic operating under the IFR shall not be cleared to transit through an activated TRA (G) (except aircraft in emergency or Air Defence Priority Flights). Aircraft in receipt of a Traffic Service or Deconfliction Service will be offered a re-route in these circumstances.

ENR 1.1 GENERAL RULES (continued)

5.1.9.6.2 **VFR**

a) File a flight plan (when specified an abbreviated flight plan will be acceptable).

Note: *Not applicable to gliders operating within TRA (G) under LoA conditions.*

b) Obtain an ATC clearance to enter the TRA.
c) Select SSR Code A/C as directed by ATC.
d) Monitor ATC frequency.

5.1.9.7 **Military Autonomous Operations**

5.1.9.7.1 Autonomous operations are to be conducted under VFR and pilots are responsible for the avoidance of collision in accordance with SERA and the Rules of the Air Regulations 2015.

5.1.9.7.2 Pilots are to select SSR code 7006 with Mode C prior to entering a TRA. This code is to be retained when vertical profiles result in operations above and below FL 195 until such time as flight within the TRA is complete.

5.1.9.7.3 Pilots should aim to operate no closer than 3 NM to the lateral boundary or within 500 FT of the vertical limit of the TRA.

5.1.9.7.4 Military aircraft do not require a clearance to operate autonomously within an active TRA. Autonomous operations are not permitted when BVLOS UAS activity is notified within an active TRA. The Mil AIP ENR 5.1 provides detail of the activity notification process.

5.1.9.8 **Booking Procedures Outside Promulgated Hours of Activity**

5.1.9.8.1 For booking the TRAs outside published operating hours, military pilots are to submit requirements by fax or e-mail to the MAMC - Managed Airspace (except for TRA 005, which is controlled by RAF Spadeadam by 1100 (1000), D-1. Bookings for Mondays (or the first working day after a stand-down period) should be submitted by 1100 (1000) on the Friday before (or the last working day prior to a stand-down period). This requirement is in accordance with the MoDs commitment to FUA.

5.1.9.8.2 Bookings are non-exclusive, and there is no limit on the number of bookings accepted for each TRA.

5.1.9.8.3 Late notice bookings may be accepted on D-Day, provided that another user has already booked the TRA at D-1.

5.1.9.8.4 Outside the promulgated hours of the MAMC - Managed Airspace the Duty Air Traffic Control Officer at nominated military area units will have responsibility for airspace management of the TRA. Full details are in the Military AIP, ENR 5.

5.2 Hazards to Flight

5.2.1 **Military Training Area (MTA)** - An area of Upper Airspace of defined dimensions within which intense military flying training takes place.

5.2.1.1 In the Upper Airspace, intense military flying training normally takes place in delineated Military Training Areas. Because of the random nature of the activity within these areas it is not possible to provide civil air traffic control service in an MTA during the published hours of activity. Details are at ENR 5.2 and further information is contained at ENR 1.1, paragraph 1.6.3.5.

5.2.2 **Area of Intense Air Activity (AIAA)** - Airspace within which the intensity of civil and/or military flying is exceptionally high or where aircraft, either singly or in combination with others, regularly participate in unusual manoeuvres.

5.2.2.1 Intense civil and/or military air activity takes place within the areas listed in ENR 5.2. Pilots of non-participating aircraft who are unable to avoid AIAAs are to keep a good lookout and are strongly advised to make use of a radar service if available; these areas are depicted at ENR 6-76.

5.2.3 **Aerial Tactics Area (ATA)** - Airspace of defined dimensions designated for air combat training within which high energy manoeuvres are regularly practiced by aircraft formations. Autonomous operations are only permitted within ATAs above FL 195 when the overlying TRA is active.

5.2.3.1 Air combat training by military aircraft practicing high energy manoeuvres regularly takes place in the areas listed in ENR 5.2. Pilots unable to avoid these areas are strongly advised to make use of a radar service; these areas are depicted at ENR 6-76.

5.2.4 **Air-to-Air Refuelling Area (AARA)** - Airspace of defined dimensions within which air-to-air-refuelling takes place under radar service.

5.2.4.1 Areas in which air-to-air refuelling under radar service takes place are listed in ENR 5.2. Refuelling aircraft will not necessarily conform with the semicircular cruising levels at ENR 1.7 paragraph 6.1 and are unable to take rapid avoiding action.

5.2.5 **Boscombe Down Advisory Radio Area** (As depicted at ENR 6-76)

5.2.5.1 Test flight aircraft are routinely flown from MoD Boscombe Down in the Advisory Radio Area as shown at ENR 5.2. A test profile

involves manoeuvres that are required to take place overland but which may place the aircraft at the limits of its flight envelope. Consequently, whilst the test pilot remains responsible for the safe conduct of the flight, there could be occasions when the pilot would be unable to manoeuvre the aircraft in compliance with SERA and the Rules of the Air Regulations 2015.

5.2.5.2 Pilots of other aircraft flying in the area are strongly advised to call Boscombe Down (ENR 5.2), who will provide pilots with information on any relevant test flight activity and, if requested, advice on arranging a detour of the test area.

5.2.5.3 Participation in the Advisory Radio Area, which is highly recommended, is designed to enhance flight safety. It does not afford any form of increased separation or right of way for the test flights and is not intended to inhibit the passage of other aircraft in the area.

5.2.6 **Warton Advisory Radio Area** (As depicted at ENR 6-76)

5.2.6.1 Test flight aircraft are routinely flown from BAe Warton in the Advisory Radio Area as shown at ENR 5.2. A test profile involves manoeuvres that are required to take place overland, or sea, but which may place the aircraft at the limits of its flight envelope. Consequently, whilst the test pilot remains responsible for the safe conduct of the flight, there could be occasions when the pilot would be unable to manoeuvre the aircraft in compliance with SERA and the Rules of the Air Regulations 2015.

5.2.6.2 Pilots of other aircraft flying in the area are strongly advised to call Warton (ENR 5.2), who will provide pilots with information on any relevant test flight activity and, if requested, advice on arranging a detour of the test area or provision of an air traffic service subject to controller workload.

5.2.6.3 Participation in the Advisory Radio Area, which is highly recommended, is designed to enhance flight safety. It does not afford any form of increased separation or right of way for the test flights and is not intended to inhibit the passage of other aircraft in the area.

5.2.7 **UK Military Low Flying System**

5.2.7.1 Military low flying occurs in most parts of the United Kingdom at any height up to 2000 FT above the surface. However, the greatest concentration is between 250 FT and 500 FT and civil pilots are advised to avoid flying in that height band whenever possible. See also ENR 1.10, subsection 7 Military Low Flying Training in the UK.

5.2.7.2 Military aircraft are considered to be low flying when:

a) Fixed-wing aircraft, except light propeller-driven aircraft, are flying below 2000 FT above the surface;
b) Light propeller-driven aircraft and helicopters are flying below 500 FT above the surface.

5.2.7.3 **Military helicopter operations in the Salisbury Plain Area**

5.2.7.3.1 A considerable number of helicopters operate to and from the military establishments in, and around, the Salisbury Plain Area.

5.2.7.3.2 In addition to the intensive daytime activities, military helicopters may be encountered operating during the hours of darkness without, or with restricted, navigation lights within the area enclosed by the following co-ordinates:

513000N 0014200W - 513600N 0011336W thence anti-clockwise by an arc of a circle radius 5 NM centred on 513654N 0010543W - 513324N 0010000W - 513000N 0010000W - 513000N 0010600W - 512400N 0010600W - 511821N 0010036W thence clockwise by an arc of a circle radius 5 NM centred on 511403N 0005634W - 511114N 0005000W - 505336N 0005000W - 505654N 0011305W - 510115N 0011039W thence anti-clockwise by an arc of a circle radius 8 NM centred on 505701N 0012124W (EGHI ATZ) - 510459N 0012017W - 510123N 0012722W - 505512N 0013047W - 505003N 0020205W - 505027N 0020549W - 505718N 0021200W - 511109N 0021749W - 512036N 0020922W - 512224N 0020257W - 512909N 0014402W - 513000N 0014200W.

5.2.7.4 Geographical details of military low flying activities within the United Kingdom are shown on the chart ENR 6-76, copies of which may be obtained from:

NATS AIS Supervisor

Phone: 01489-887462
Email: aissupervisor@nats.co.uk

5.3 Activities of a Dangerous Nature

5.3.1 **Small Arms Ranges**

5.3.1.1 Small arms ranges in the UK with a vertical hazard height of 500 FT AGL do not attract UK Danger Area status. However, firing at some ranges can take place across open areas of ground over which an aircraft might legally be flown below 500 FT AGL.

5.3.1.2 Listed at ENR 5.3 are the details of the small arms ranges notified to the Authority which might pose a hazard to flight below 500 FT AGL. The small arms ranges may be in use at any time and pilots are strongly advised to avoid these areas. The list includes small arms ranges, located within the lateral boundaries of UK Danger Areas, which may be in use outside the activity hours of

those Danger Areas.

5.3.2 **High Intensity Radio Transmission Area (HIRTA)** - Airspace of defined dimensions within which there is radio energy of an intensity which may cause interference with and on rare occasions damage to communications and navigation equipment.

5.3.2.1 Areas within which there is radio energy of an intensity which could cause interference with and on rare occasions, cause damage to, communications and navigation equipment such as Radio Altimeter, VOR, ILS and Doppler are listed at ENR 5.3. The intensity may be sufficient to detonate electrically initiated explosive devices carried or fitted in aircraft.

5.3.2.2 Only the most significant sources are listed and in some of these areas the intensity of the radio energy may be such that it would be injurious to remain for more than one minute in the immediate vicinity of the energy source. This is especially relevant to helicopter operations and the list contains appropriate warnings; however it would be prudent for helicopter pilots to avoid lingering closer than 100 M to any radar aerial. Pilots approaching oil production platforms on which dish aerials can be observed should, wherever possible, approach from a direction out of the general line-of-shoot of such aerials.

5.3.2.3 Airborne Early Warning (AEW) aircraft operate within United Kingdom airspace. Due to possible radiation hazards all aircraft should maintain a minimum separation of 1000 M lateral and 1000 FT vertical from AEW aircraft. AEW aircraft operate in pre-designated areas; these areas are non-segregated. ATC will issue direction to ensure minimum separation distances are maintained between civilian aircraft and AEW aircraft. UK Orbit Areas and Operating Areas are listed at ENR 5.3.

5.3.3 **Gas Venting Operations**

5.3.3.1 Severe turbulence and power fluctuations in turbine engines could be experienced over gas venting sites during venting of natural (methane) gas under high pressure. Locations of gas venting sites are listed at ENR 5.3.

5.3.4 **Laser Sites**

5.3.4.1 Laser sites, as listed at ENR 5.3, are locations where laser sources are located permanently and which have been notified to the Airspace Regulation (Utilisation) (AR(U)). Only those sites which radiate sufficient power to cause distraction or eye damage, and which intentionally emit laser beams into airspace or are likely to in the event of a malfunction, are included.

5.3.5 **Radiosonde Balloon Ascents**

5.3.5.1 The Met Office releases helium or hydrogen filled balloons from a number of locations throughout the United Kingdom which are listed at ENR 5.3. These balloons carry a small radio transmitter which sends back atmospheric information about temperature, pressure and humidity; by way of a tracking system the balloons also provide data on wind speed and direction at various levels. A typical installation consists of a balloon, diameter at launch approximately 1.5 metres, to which is attached a small parachute. The radiosonde is attached underneath the parachute on a suspension string of approximately 33 metres in length. The distance the balloons travel away from the launch site is dependant on the wind strength, but they can attain altitudes of over 80000 FT.

5.3.5.2 Balloon launches from all other sites by organisations and members of the public require written permission from the CAA in accordance with the UK Air Navigation Order before releasing meteorological balloons into notified airspace. The ANO specifies the requirements for notification and permission for the launch of balloons; such permission may be conditional. Organisations and members of the public wishing to obtain permission for the above activity shall contact Airspace Regulation (Utilisation) (AR(U)) at Airspace Regulation, Aviation House, Gatwick RH6 0YR, e-mail: arops@caa.co.uk at least five working days in advance, to allow AR(U) to take appropriate notification action.

5.3.5.3 Radiosondes, minus the balloon, may also be air dropped; this activity will be promulgated by NOTAM.

5.4 Air Navigation Obstacles

5.4.1 **List of Air Navigation Obstacles**

5.4.1.1 The majority of air navigation obstacles listed in ENR 5.4 are solely identified by a combined Area Code and Reference Number e.g. UK0105A052F. These obstacles do not meet the accuracy requirements of original field work as specified in ICAO Annexes 11 and 14. Those obstacles identified additionally with an aerodrome ICAO identification code followed by the survey reference number are derived from aerodrome surveys and do meet the accuracy requirements of the original field work. The current Data Management Process does not provide assurance of the integrity of air navigation obstacles listed in ENR 5.4.

5.4.1.2 Air Navigation Obstacles listed in ENR 5.4 with an elevation but no height indicated are Off-Shore obstacles.

5.4.1.3 The Civil Aviation Authority (CAA) does not guarantee that the list of Air Navigation Obstacles in ENR 5.4 is complete.

5.4.2 **Aerodrome Obstacles**

5.4.2.1 An aerodrome obstacle is one that is located on an area intended for the surface movement of aircraft or that extends above a defined surface intended to protect aircraft in flight. Obstacle limitation surfaces can extend to distances greater than 15 KM from the runway thresholds. Details of aerodrome obstacles selected as significant are listed in the AD Section and are shown on Aerodrome and Instrument Approach Charts where these have been published. Obstacle data is provided to AIS in accordance

with CAP 232 'Aerodrome Survey Information' or CAP 1732 'Aerodrome Survey Guidance'. By December 2023 all certificated aerodromes and aerodromes with Instrument Flight Procedures should be fully compliant with CAP 1732. The method of lighting aerodrome obstacles is detailed in CAP 168 'Licensing of Aerodromes' and is briefly described in CAP 637 'Visual Aids Handbook'.

5.4.3 **Land Based Air Navigation Obstacles**

5.4.3.1 Article 225A of the Air Navigation Order 2016 mandates the requirement for the CAA to be notified of any existing or proposed en-route obstacles (permanent or temporary) which (or will) attain or exceed a height of 100 M (328 FT) AGL. Proposed changes to any existing en-route obstacles which (or will) attain or exceed a height of 100 M (328 FT) AGL must also be notified. This requirement is applicable to any building or work, including waste heaps, which attains or exceeds the above-stated height. Details of those obstacles of which the CAA has been notified are listed in ENR 5.4. In cases where a number of structures form the obstacle, the position of the highest is given. In the case of masts, the position of the centre of the mast is given (but it should be noted that the stays or guys may spread out for a considerable distance). Article 222 of the Air Navigation Order 2016 imposes mandatory lighting requirements on en-route obstacles that are 150 M (492 FT) AGL or more in height. For en-route obstacles that are less than 150 M (492 FT) AGL in height, the CAA recommends that such structures should be lit if, by virtue of their nature or location, they are considered to present a significant hazard to air navigation.

5.4.3.2 The process for notifying en-route obstacles to the CAA is detailed in AIC P 067/2021 dated 29 July 2021. Guidance is also available on the CAA website: https://www.caa.co.uk/Commercial-industry/Airspace/Event-and-obstacle-notification/Obstacle-notification/Obstacle-notification/

5.4.3.3 Details of un-serviceability and return to service of lights on such obstacles, when notified to UK AIS, will be promulgated by NOTAM. Land based air navigation obstacles with a height of less than 150 M are sometimes lit, but details of un-serviceability of lights on these obstacles are not normally promulgated. Obstacles listed in ENR 5.4 annotated 'FLR' in Column 2 are those that burn off high pressure gas; the flame, which may not be visible in bright sunlight, can extend for 600 FT.

5.4.3.4 Details of all land based air navigation obstacles known at the date of the chart's preparation are shown on certain Aeronautical Charts published by NATS Ltd on behalf of the CAA. These charts indicate whether or not the obstacle is normally lighted. Pilots should be aware that obstacle lighting is not necessarily located at the structure's highest point.

5.4.4 **Off-shore Air Navigation Obstacles**

5.4.4.1 Numerous fixed installations related to off-shore exploration of oil/gas from the Continental Shelf sea bed and a significant number of wind turbine generators and associated meteorological masts exist within the Scottish and London FIRs and the UK Exclusive Economic Zone (EEZ). A part of the UK EEZ lies within the Polaris FIR and parts of some other States' EEZs lie within the Scottish and London FIRs.

5.4.4.2 Oil and gas exploration installations vary in elevation and typically display navigation warning lights. Most of the installations are equipped with a helideck, which comes within the definition of an aerodrome. Many installations burn off high pressure gas and the flame, which may not be visible in bright sunlight, can extend for 600 FT. Pilots should be aware that even if no flame is visible there is still danger from the venting of high pressure gas. Pilots should also be aware of high intensity radio transmissions from some installations (see paragraph 5.3.2).

5.4.4.3 Wind turbines typically display a navigation warning light on the top of the supporting structure. Pilots should be aware that the rotor blades of some wind turbines rotate in excess of 200 FT above the nacelle mounted light. Where wind turbines are located together as a group, only those on the periphery are fitted with obstacle lighting.

5.4.4.4 Article 225A of the Air Navigation Order 2016 mandates the requirement for the CAA to be notified of any existing or proposed off-shore obstacle (permanent or temporary) in UK territorial waters which attains or exceeds an elevation of 100 M (328 FT) AMSL. Proposed changes to any existing off-shore obstacles in UK territorial waters which (or will) attain or exceed an elevation of 100 M (328 FT) AMSL must also be notified. Persons in charge of existing or proposed off-shore obstacles outside UK territorial waters, but within the Scottish and London FIRs and the UK EEZ within the Polaris FIR are also advised to notify the CAA in accordance with Article 225A. See paragraph 5.4.3.2 for more details of the notification process. Details of those obstacles of which the CAA has been notified which attain or exceed an elevation of 100 M (328 FT) AMSL within the Scottish and London FIRs and UK EEZ within the Polaris FIR are listed in ENR 5.4.

5.5 Aerial Sporting and Recreational Activities

5.5.1 **Glider Launching Sites**

5.5.1.1 Glider launching may take place from designated sites which are regarded as aerodromes. The sites are listed at ENR 5.5. Where launching takes place within the Aerodrome Traffic Zone of an aerodrome listed within the AD section, details are also shown at AD 2 and AD 3.

5.5.1.2 Gliders may be launched by towing (T) aircraft, or by winch (W) and cable or ground tow up to a height of 2000 FT AGL. At a few sites the height of 2000 FT may be exceeded (see paragraph 5.5.3).

5.5.1.3 Sites are listed primarily to identify hazards to other airspace users and listing does not imply any right for a glider or powered

aircraft to use the sites.

5.5.2 **Hang Gliding, Paragliding and Parascending Sites**

5.5.2.1 Hang Gliding and/or parascending may take place from sites which, because of the low speed characteristics of hang gliders, paragliders and parascenders and the difficulty of seeing them in certain conditions, are listed as hazards to other airspace users.

5.5.2.2 The locations of cable-launched hang/paragliding sites are listed at ENR 5.5. Foot launched activity sites are severely affected by wind speed and direction existing at the time. Although activity is usually at a peak during weekends, hang-gliding and/or parascending may take place at any time, particularly in the summer months. Airspace users should be aware that single or groups of soaring and motorised hang/para-gliders can be found flying anywhere in Class G airspace up to 15,000 FT, and are therefore not listed.

5.5.2.3 At certain sites hang gliders and/or parascenders may be launched by winch/auto-tow and cables may be carried up to 2000 FT AGL. At a few sites the height of 2000 FT may be exceeded (see paragraph 5.5.3). The cable launching of the aircraft may be encountered within the airspace contained in a circle radius 1.5 NM of the notified position of the site.

5.5.3 **Cable Launching of Gliders, Hang Gliders and Parascending Parachutes**

5.5.3.1 The launching of gliders, hang gliders and parascending parachutes by winch and cable or by ground tow to above 200 FT (60 M) AGL requires permission in writing under the UK Air Navigation Order from the Civil Aviation Authority.

5.5.3.2 At sites where cable launching is permitted, cables may be carried up to heights of 2000 FT AGL. At a few sites the heights of 2000 FT may be exceeded. It is a condition of the permission that when cable launching is taking place, a white ground conspicuity signal as described in SERA Appendix 1 Signals paragraph 3.2.8.1 shall be displayed.

5.5.3.3 Sites which have permission to cable launch above 200 FT AGL are listed at ENR 5.5.

5.5.4 **Free-fall Parachuting Drop Zones**

5.5.4.1 Intensive free-fall parachuting may be conducted up to FL 150 at any of the Drop Zones listed at ENR 5.5 and in several Danger Areas. Listing of a Drop Zone does not imply any right to a parachutist to use that Drop Zone. Some Government and licensed aerodromes where regular parachuting takes place are included in the list but parachuting may also take place during daylight hours at any Government or licensed aerodrome. Drop Zone activity information may be available from certain Air Traffic Service Units (ATSUs) but pilots are advised to assume a Drop Zone is active if no information can be obtained.

5.5.4.2 Parachuting also takes place at temporary sites, e.g. for display purposes, and will normally be notified by NOTAM as Temporary Navigation Warnings. Night parachuting may take place at any Drop Zone: Club Chief Instructors will notify in writing all forthcoming night parachuting, at least five working days in advance to Airspace Regulation (Utilisation) (AR(U)), Airspace Regulation, Aviation House, Gatwick, RH6 0YR, to allow AR(U) to take appropriate notification action.

5.5.4.3 Visual sighting of free-falling bodies is virtually impossible and the presence of an aircraft within the Drop Zone may be similarly difficult to detect from the parachutists' point of view. Parachute dropping aircraft and, on occasions, parachutists may be encountered outside the notified portion of airspace. Pilots are strongly advised to give a wide berth to all such Drop Zones where parachuting may be taking place.

5.5.4.4 Where permission is obtained for drops within Controlled Airspace, dropping aircraft are to have serviceable SSR with Mode C.

5.5.5 **Microlight Flying sites**

5.5.5.1 Those Microlight Flying Sites where flying is known to take place are listed at ENR 5.5 and are regarded as aerodromes. Sites are listed primarily as hazards to other airspace users and the listing does not imply any right for aircraft to use the sites. Microlight aircraft might be encountered at sites not included in the listing (See also AD Section).

5.5.6 **Captive and Free Flight Manned Balloon Launch Sites**

5.5.6.1 Frequent launchings by free flight and captive passenger carrying balloons take place at sites identified in ENR 5.5.

5.5.7 **Kites**

5.5.7.1 High flying kites may be hazardous to aircraft because of the possibility of collision with the towline. Kite flying sites are identified in ENR 5.5.

5.5.8 **Training and Unusual Activity Aerodromes**

5.5.8.1 Training Aerodromes - Designated Training Aerodromes are listed in ENR 5.5 and are regarded as an aerodrome. Flight Training including circuit practice is known to take place from these sites, the list and chart symbol are published to identify the hazards to other airspace users and the listing does not imply any right for an aircraft to use these aerodromes. Where training takes place

ENR 1.1 GENERAL RULES (continued)

at a licensed aerodrome and within the defined Aerodrome Traffic Zone, the aerodrome will be listed within the AD section.

5.5.8.2 Unusual Activity Aerodromes - Designated Unusual Activity aerodromes are listed in ENR 5.5 and are regarded as an aerodrome. Activities such as aerobatic, formation flights and other aerial activities are known to take place from these sites, the list and chart symbol are published to identify the hazards to other airspace users and the listing does not imply any right for an aircraft to use these aerodromes. Where flights takes place at a licensed aerodrome and within the defined Aerodrome Traffic Zone, the aerodrome will be listed within the AD section.

6 Other Temporary Hazards

6.1 Hazards of a temporary nature will be notified, whenever time permits, by NOTAM as Temporary Navigation Warnings.

6.2 Activity of a hazardous nature may occur without notification within the Aerodrome Traffic Zones of active aerodromes not normally available to civil aircraft (see ENR 2.2).

ENR 1.2 VISUAL FLIGHT RULES

1 VFR Flight

1.1 VFR flights shall be conducted so that the aircraft is flown in conditions of visibility and distance from clouds equal to or greater than those specified in Table 1.

Table 1

Altitude Band	Airspace Class	Flight Visibility	Distance from Cloud
At and above FL 100	A B C D E F G (See Note 1)	8 KM	1500 M horizontally 300 M (1000 FT) vertically
Below FL 100 and above 900 M (3000 FT) AMSL, or above 300 M (1000 FT) above terrain, whichever is the higher.	A B C D E F G (See Note 1)	5 KM	1500 M horizontally 300 M (1000 FT) vertically
At and below 900 M (3000 FT) AMSL, or 300 M (1000 FT) above terrain, whichever is the higher	A B C D E (See Notes 1 & 2)	5 KM	1500 M horizontally 300 M (1000 FT) vertically
	F G (See Note 3)	5 KM	Clear of cloud and with the surface in sight

Note 1: *The VMC minima in Class A Airspace are included for guidance to pilots and do not imply acceptance of VFR flights in Class A Airspace.*

Note 2: *Alternatively, an aircraft in Class D airspace shall also be deemed to have complied with Table 1 if it is flown:*

a) During day only;
b) At and below 900 M (3000 FT) AMSL, or 300 M (1000 FT) above terrain, whichever is the higher;
c) At an indicated airspeed of 140 KT or less to give adequate opportunity to observe other traffic or any obstacles in time to avoid collision;
d) Remaining clear of cloud and with the surface in sight; and

i. For aircraft other than helicopters, a flight visibility of at least 5 KM;
ii. For helicopters, a flight visibility of at least 1500 M.

Note 3: *Alternatively, an aircraft in Class F or G airspace shall also be deemed to have complied with Table 1 if it is flown:*

a) During day only;
b) At and below 900 M (3000 FT) AMSL, or 300 M (1000 FT) above terrain, whichever is the higher;
c) At an indicated airspeed of 140 KT or less to give adequate opportunity to observe other traffic or any obstacles in time to avoid collision;
d) Remaining clear of cloud and with the surface in sight; and
e) With a flight visibility of at least 1500 M.

1.2 For the purposes of an aeroplane taking off from or approaching to land at an aerodrome within Class B, C or D Airspace, the visibility, if any, communicated to the commander of an aeroplane by the appropriate air traffic control unit shall be taken to be the flight visibility for the time being.

1.3 The minimum heights at which aircraft may be flown are detailed at SERA.3105 Minimum Heights. For the purposes of SERA.3105, SERA.5005(c)(5) Visual Flight Rules at night, SERA.5005(f) Visual Flight Rules by day and SERA.5015(b) Instrument Flight Rules (IFR) — Rules Applicable to all IFR Flights, exceptions to the minimum height requirements are permitted for specific operations. See CAA Official Record Series 4 (www.caa.co.uk/ors4) for the current ORS4 'Standardised European Rules of the Air - Exceptions to the Minimum Height Requirements).

1.4 Except where otherwise indicated in air traffic control clearances or specified by the appropriate ATS authority, it is not mandatory in the United Kingdom for VFR flights in level cruising flight when operated above 3000 FT (900 M) from the ground or water, or a higher datum as specified by the appropriate ATS authority, to adopt any particular cruising level system. Such flights are advised to adopt the table of cruising levels for IFR flights as given at ENR 1.7, paragraph 6.1.

1.5 VFR flights shall comply with the provisions of ICAO Annex 2, paragraph 3.6, when operating in Class B, C and D Airspace. Flight Planning requirements and Air Traffic Control Clearances are detailed at SERA.4001-SERA.4020, SERA.5005-SERA.5025, SERA.6001, SERA.8015 and SERA.8020.

Note: *A Special VFR clearance may be requested without the submission of a filed flight plan. Brief details of the proposed flight should be passed to the appropriate Air Traffic Control Unit.*

1.6 ICAO Annex 2 and SERA precludes authorisation for VFR flights to operate above FL 290 where a vertical separation minimum of 300 M (1000 FT) is applied above FL 290. Therefore, for aircraft operating as General Air Traffic (GAT), VFR flights shall not be authorised within the London and Scottish UIRs above FL 290, as described in ENR 2.1.

1.7 For the purposes of SERA.5005(c) Visual Flight Rules, VFR flight is permitted at night (see ORS4 No.1125 Standardised European Rules of the Air – Visual Flight Rules (VFR) and Special VFR Flight at Night) in accordance with the following criteria:

a) if leaving the vicinity of an aerodrome, a flight plan shall be submitted;
b) flights shall establish and maintain two-way radio communication on the appropriate ATS communication channel, when available;
c) The VMC visibility and distance from cloud minima as specified in SERA Table S5-1 shall apply except that:

i. the ceiling shall not be less than 450 M (1500 FT);
ii. except as specified in (v), the specified reduced flight visibility provisions shall not apply;
iii. in Airspace Classes B, C, D, E, F and G, at and below 900 M (3000 FT) AMSL or 300 M (1000 FT) above terrain, whichever is the higher, the pilot shall maintain continuous sight of the surface; and
iv. ceiling, visibility and distance from cloud minima lower than those specified in above may be permitted for helicopters in special cases, such as medical flights, search and rescue operations and fire-fighting.

d) In accordance with SERA.5005 (c)(5), VFR flights in the United Kingdom at night may be flown below a level which is at least 300 M (1000 FT) above the highest obstacle located within 8 KM of the estimated position of the aircraft subject to the conditions at paragraph (e).
e) The conditions specified in paragraph (d) are that the aircraft is flown:

i. at an altitude not exceeding 3000 FT AMSL;
ii. clear of cloud and with the surface in sight;
iii. at a height not less than 300 M (1000 FT) above the highest obstacle within a radius of 600 M from the aircraft when over the congested areas of cities, towns or settlements or over an open-air assembly of persons; and
iv. elsewhere than as specified in sub-paragraph (iii), at a height of more than 150 M (500 FT) above the ground or water, or 150 M (500 FT) above the highest obstacle within a radius of 150 M (500 FT) from the aircraft.

f) The Civil Aviation Authority permits, under SERA.5010(b) (Special VFR in Control Zones), a special VFR flight within a control zone at night in the United Kingdom.

2 Special VFR Flight

2.1 Clearance for Special VFR flight in the UK is an authorization by ATC for a pilot to fly within a Control Zone although he is unable to comply with IFR. In exceptional circumstances, requests for Special VFR flight may be granted for aircraft with an all-up-weight exceeding 5700 KG and capable of flight under IFR. Special VFR clearance is only granted when traffic conditions permit it to take place without hindrance to the normal IFR flights. For meteorological limitations relating to the issuance of SVFR clearances, see SERA 5010.

2.2 When operating on a Special VFR clearance, the pilot must comply with ATC instructions and remain at all times in flight conditions which enable him to determine his flight path and to keep clear of obstacles. Therefore, it is implicit in all Special VFR clearances that the aircraft remains clear of cloud and in sight of the surface. It may be necessary for ATC purposes to impose a height limitation on a Special VFR clearance which will require the pilot to fly either at or not above a specific level.

2.3 A full flight plan, Form CA48/RAF2919, is not required for Special VFR flight but ATC must be given brief details of the call sign, aircraft type and pilots intentions. These details may be passed either by RTF or, at busy aerodromes, through the Flight Clearance Office. A full flight plan must be filed if the pilot wishes the destination aerodrome to be notified of the flight.

2.4 Requests for Special VFR clearance to enter a Control Zone, or to transit a Control Zone, may be made to the ATC authority whilst airborne. Aircraft departing from aerodromes adjacent to a Control Zone boundary and wishing to enter may obtain Special VFR clearance either prior to take-off by telephone or by RTF when airborne. In any case, all such requests must specify the ETA for the selected entry point and must be made 5-10 minutes beforehand.

2.5 ATC will provide standard separation between all Special VFR flights and between such flights and other aircraft under IFR.

2.6 A Special VFR clearance within a Control Zone does not absolve the pilot from the responsibility for avoiding an Aerodrome Traffic Zone unless prior permission to penetrate the ATZ has been obtained from the relevant ATC Unit.

2.7 Because Special VFR flights are made at the lower levels, it is important for pilots to realise that a Special VFR clearance does not absolve them from the need to comply with the relevant low flying restrictions of SERA.3105 Minimum Heights and SERA.5005 Visual Flight Rules (unless permitted otherwise by the CAA). In particular, it does not absolve pilots from the requirement that an aircraft, other than a helicopter, flying over congested areas must fly at such a height as would enable it to clear the area and alight without danger to persons or property on the ground in the event of an engine failure and that a helicopter, whether flying over a congested area or not, must fly at such a height as would enable it to alight without danger to persons or property on the ground in the event of an engine failure. In addition there are special rules applicable to flight by helicopters over London (see AD 2.EGLL AD 2.22, paragraphs 9, 11 and 12).

2.8 For the purposes of SERA.5010(b) Special VFR in Control Zones, special VFR flight within a control zone is permitted at night in the UK FIRs. (ORS4 No.1125 Standardised European Rules of the Air – Visual Flight Rules (VFR) and Special VFR Flight at Night).

2.9 **Radio Communication Failure Procedures**

2.9.1 The procedures to be adopted by pilots experiencing two-way radio communication failure are:

a) If the aircraft is suitably equipped, operate the Transponder on Mode A, Code 7600 and Mode C;
b) If it is believed that the radio communication transmitter is functioning, transmit blind giving position reports and stating intentions;
c) If, when radio communication failure occurs, the aircraft is not yet in the CTR, the pilot must in all cases remain clear even if Special VFR clearance has been obtained;
d) If Special VFR clearance has been obtained and the aircraft is in the CTR when the radio communication failure occurs, proceed as follows:

ENR 1.2 VISUAL FLIGHT RULES (continued)

i. Aircraft inbound to an aerodrome in the CTR - proceed in accordance with Special VFR clearance to the aerodrome and land as soon as possible. When in aerodrome traffic circuit watch for visual signals;
ii. Aircraft transiting a CTR - continue flight not above the cleared altitude to leave the CTR by the most direct route, taking into account weather limitations, obstacle clearance and areas of known dense traffic.

Note: *In (i) and (ii), if flying on a heading advised by radar, when radio communication failure occurs, resume own navigation and carry out the appropriate procedure described.*

In all cases, notify the ATC Unit concerned as soon as possible after landing.

3 Following Line Features

3.1 An aircraft which is flying within the United Kingdom with the surface in sight and following a road, railway, canal or coastline, or any other line of landmarks, should fly to the right of the line feature unless flying within controlled airspace in accordance with instructions given by the appropriate air traffic control unit.

3.2 'With the surface in sight' means with the flight crew being able to see sufficient surface features or surface illumination to enable the flight crew to maintain the aircraft in a desired attitude without reference to any flight instrument and 'when the surface is not in sight' is to be construed accordingly. (Air Navigation Order 2016 Schedule 1 'Interpretation').

4 Visual Reference Points

4.1 A Visual Reference Point (VRP) is an easily distinguishable fixed feature on the ground such as a windmill, pier etc. or a geographical feature such as a lake, hill and so on, which a pilot flying in good flight conditions should be easily able to identify. VRPs are established to assist Air Traffic Services (ATS) in routeing VFR traffic and to integrate VFR flights with IFR flights. Where VRPs are established outside controlled airspace, ATS staff should not instruct aircraft to hold over such VRPs. This does not apply to VRPs established within controlled airspace where a known traffic environment exists. ATS staff should not direct VFR traffic to fly directly over VRPs unless the IFR traffic situation specifically demands this.

4.2 VRPs are to be depicted in charts supporting aerodrome entries at UK AIP AD 2; they may also be depicted in Terminal Controlled Airspace charts at ENR 6. In addition, they are to be depicted on the CAA's 1:250000 and 1:500000 VFR charts by a blue box surrounding the name which is linked to the location identified by a cross within a circle.

4.3 Details of VRPs established at individual aerodromes are available in the consolidated 'Visual Reference Point List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

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ENR 1.3 INSTRUMENT FLIGHT RULES

1 IFR Flight

SERA.2005 Compliance with the Rules of the Air and SERA.5015 Instrument Flight Rules (IFR) — Rules Applicable to All IFR Flights as applied within UK Airspace.

1.1 **Aircraft Equipment**

1.1.1 Aircraft shall be equipped with suitable instruments and with navigation equipment appropriate to the route to be flown.

1.2 **Minimum Levels**

1.2.1 Except when necessary for take-off or landing, or except when specifically authorized by the appropriate authority, an IFR flight shall be flown at a level which is at least 1000 FT (300 M) above the highest obstacle located within 8 KM of the estimated position of the aircraft.

Note 1: *When determining which are the highest obstacles within 8 KM of the estimated position of the aircraft, the estimate will take account of the navigational accuracy which can be achieved on the relevant route segment, having regard to the navigational facilities available on the ground and in the aircraft.*

Note 2: *See also SERA.3105 Minimum Heights and SERA.5015 Instrument Flight Rules (IFR) — Rules Applicable to All IFR Flights.*

1.3 **Change from IFR flight to VFR flight**

1.3.1 An aircraft electing to change the conduct of its flight from compliance with the instrument flight rules to compliance with the visual flight rules shall, if a flight plan was submitted, notify the appropriate air traffic services unit specifically that the IFR flight is cancelled and communicate thereto the changes to be made to its current flight plan.

1.3.2 When an aircraft operating under the instrument flight rules is flown in or encounters visual meteorological conditions it shall not cancel its IFR flight unless it is anticipated, and intended, that the flight will be continued for a reasonable period of time in uninterrupted visual meteorological conditions.

Note: *See also ENR 1.10, paragraph 1.14.1.*

2 Rules applicable to IFR flights within Controlled Airspace

2.1 IFR flights shall comply with the provisions of SERA.8015 Air Traffic Control Clearances when operated in controlled airspace.

2.2 As specified in the ICAO EUR Regional Supplementary Procedures (DOC 7030/5-EUR), flights shall be conducted in accordance with Instrument Flight Rules when operated within or above the EUR RVSM airspace. Therefore, flights operating as General Air Traffic (GAT) within the London and Scottish UIRs at or above FL 290, as described in ENR 2.1, shall be conducted in accordance with the Instrument Flight Rules.

2.3 An IFR flight operating in cruising flight in controlled airspace shall be flown at a cruising level, or, if authorized to employ cruise climb techniques, between two levels or above a level, selected from the Tables of cruising levels at ENR 1.7 paragraph 6.1, except that the correlation of levels to track prescribed therein shall not apply whenever otherwise indicated in air traffic control clearances or specified by the appropriate ATS authority in Aeronautical Information Publications.

2.4 For TRA Access Requirements see ENR 1.1.5, paragraph 1.5.6.

3 Rules applicable to IFR flights outside Controlled Airspace

3.1 **Cruising Levels**

3.1.1 An IFR flight operating in level cruising flight outside of controlled airspace shall be flown at a cruising level appropriate to its track as specified in the Tables of cruising levels at ENR 1.7 paragraph 6.1.

Note: *This provision does not preclude the use of cruise climb techniques by aircraft in supersonic flight.*

3.2 **Communications**

3.2.1 An IFR flight operating outside controlled airspace but within or into areas, or along routes, designated by the appropriate ATS authority in accordance with SERA.4001(b) Submission of a Flight Plan and incorporating UK Differences (GEN 1.7 refers), shall maintain a listening watch on the appropriate radio frequency and establish two-way communication, as necessary, with the air traffic services unit providing flight information service.

Note 1: *See notes following ICAO Annex 2, paragraph 3.6.5.1.*

Note 2:

a) In a HF environment, SELCAL or similar automatic signalling devices satisfy the requirement to maintain an air-ground voice communication watch;

b) An aircraft may be permitted to communicate temporarily with a control unit other than the unit controlling the aircraft.

ENR 1.3 INSTRUMENT FLIGHT RULES (continued)

3.3 **Position Reports**

3.3.1 An IFR flight operating outside controlled airspace and required by the appropriate ATS authority to:

- submit a flight plan,
- maintain a listening watch on the appropriate radio frequency and establish two-way communication, as necessary, with the air traffic services unit providing flight information service, shall report position as specified in SERA.8025 Position Reports for controlled flights.

shall report position as specified in SERA.8025 Position Reports for controlled flights.

4 Free Route Airspace - General Procedures

4.1 **Area of Application**

4.1.1 FRA is available within a specified areas of UK airspace as detailed in ENR 2.2 within which free route flight planning is available H24.

4.2 **Eligible Flights**

4.2.1 Flights eligible to operate within FRA are all flights equipped to at least RNAV 5 that intend to operate within the vertical and lateral limits of the UK FRA as specified in ENR 2.2. This includes traffic arriving and departing airfields situated below the lateral area of UK FRA or in its proximity and have a requested flight level within FRA.

4.3 **Flight Procedures**

4.3.1 **General**

4.3.1.1 No ATS routes are published within the defined UK FRA and operators should flight plan user-preferred trajectories via published FRA Significant Points as defined in ENR 4.1 and ENR 4.4.

4.3.1.2 Within UK FRA there is no limit to the length of DCT segments that can be flight planned.

4.3.2 **FRA Procedures**

4.3.2.1 Flights shall operate within FRA in accordance with the procedures detailed in the tables at Para 4.3.2.2 / 3 / 4.

4.3.2.2 **Overflying Traffic**

4.3.2.2.1 It is mandatory to enter/exit UK FRA via FRA Horizontal Entry/Exit Points.

4.3.2.2.2 Eligible flights transiting from the ATS route network to FRA:

From	To	Remark
FRA Horizontal Entry Point (E)	FRA Horizontal Exit Point (X)	If required flights may include FRA (I) points in accordance with ENR 4.1/ENR 4.4 in their FPL route.
	FRA Arrival Connecting Point (A)	If required flights may include FRA (I) points in accordance with ENR 4.1/ENR 4.4 in their FPL route.
	FRA Intermediate Point (I)	If required flights may transition vertically in or out of FRA from or to the underlying ATS route network at a published FRA (I) point that is common to an ATS route below the defined FRA.

4.3.2.3 **Access to/from Terminal Airspace**

4.3.2.3.1 It is mandatory for arrivals and departures to and from airfields in the vicinity of UK FRA to enter via a FRA Arrival Connecting Point (A) or a FRA Departure Connecting Point (D) as defined in ENR 4.4.

4.3.2.3.2 Details of FRA arrival and departure connecting routes to and from airfields beneath and adjacent to FRA within UK airspace can

ENR 1.3 INSTRUMENT FLIGHT RULES (continued)

be found in the UK & Ireland Standard Route Document (SRD).

4.3.2.3.3 Flights transitioning vertically into UK FRA from departure airfield:

From	To	Remark
FRA Departure Connecting Point (D)	FRA Horizontal Exit Point (X)	If required flights may include FRA (I) points in accordance with ENR 4.1/4.4 within FRA in their FPL route.
	FRA Arrival Connecting Point (A)	If required flights may include FRA (I) points in accordance with ENR 4.1/4.4 within FRA in their FPL route.

4.3.2.4 **Vertical Transition to/from the underlying ATS Route Network**

4.3.2.4.1 It is mandatory for flights wishing to transit vertically between FRA and the underlying ATS route network and vice versa, to do so by including a level change in the flight plan at a published FRA Intermediate Point (I).

From	To	Remark
FRA Intermediate Point (I)	FRA Horizontal Exit Point (X)	Flights may enter FRA from the underlying ATS route network vertically by changing level at a common published FRA (I) point.
	FRA Arrival Connecting Point (A)	Flights may enter FRA from the underlying ATS route network vertically by changing level at a common published FRA (I) point.

4.3.3 **Cross-Border Application**

4.3.3.1 Cross border UIR DCT requirements are detailed within the Route Availability Document (RAD): See ENR 1.10 Sect 3.

4.4 **Airspace Reservation – Special Use Airspace**

4.4.1 **Re-routing - Special Use Areas**

4.4.1.1 Special Use Airspace (SUA) is permitted within FRA and managed under the Flexible Use of Airspace (FUA) concept. SUA shall be segregated to exclude GAT traffic when activated and protected in flight planning terms within FRA by the application of a Flight Plan Buffer Zone (FBZ) around the edge of the SUA.

4.4.1.2 GAT operators are expected to flight plan through FRA avoiding active SUA and associated FBZs at their discretion using published FRA (I) Points in accordance with ENR4.1/4.4 unless specific routings are mandated in accordance with the Route Availability Document (RAD): See ENR 1.10 Sect 3.

4.4.1.3 SUA activity within FRA will be published via NOTAM and via the Airspace Use Plan (AUP) and Updated Use Plan (UUP).

4.4.1.4 Details of vertical and lateral boundaries of SUAs and FBZs within FRA are contained within ENR 5.1/5.2.

4.5 **Additional FRA Procedures**

4.5.1 **General Provisions**

4.5.1.1 It is not permissible to flight plan a route along the UK FRA boundary or within 3 NM of the UK FRA boundary, except when crossing the UK FRA boundary to an adjacent UIR.

4.5.1.2 It is not permissible to flight plan a route that crosses a ‘Non-standard Planning Zone’ (NPZ) as defined in ENR 2.2.

4.6 **Route Availability Document**

4.6.1 All UK FRA constraints, exemptions and restrictions will be published via the Route Availability Document (RAD) and promulgated in accordance with ENR 1.10.

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ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION

1 ATS Airspace Classification

1.1 UK Airspace may be classified as A, B, C, D, E, F and G in accordance with ICAO Annex 11, subject to the Differences notified at GEN 1.7. The airspace classifications are described in subsequent paragraphs.

1.2 Where controlled airspace is vertically adjoined by Class G airspace, aircraft operating at the base (lower limit) of a control area or at the upper limit of a control zone or control area should comply with the requirements of Class G airspace. With the exception of VFR flights operating into or out of Class E airspace and where appropriate, complying with any applicable TMZ requirement, flights without an ATC clearance that are observed operating immediately above the base (lower limit) of a control area or immediately below the upper limit of a control zone or control area will be considered to have infringed controlled airspace. →

1.3 When considering the vertical profile of a flight within Class G airspace, pilots are reminded to select a level that is compliant with SERA.5025(a) and ORS4 No 1578. To mitigate the risk of penetrating notified airspace structures without complying with the conditions associated with those structures, pilots are recommended to plan their flights to operate:

- not closer than 2 NM from the boundary of the notified airspace structure.
- at least 200 FT above the upper limit of the notified airspace structure.
- at least 200 FT below the lower limit of the notified airspace structure.

1.4 When operating proximate to control areas in turbulent, or in ascending or descending air masses, as part of effective Threat and Error Management, when able to, pilots may wish to consider increasing the 200 FT recommended spacing to mitigate inadvertent vertical deviations that could result in an infringement.

1.5 Pilots are further reminded that, when operating within Class G airspace within 500 FT of the base of controlled airspace, they should consider the risk of encountering wake turbulence generated by aircraft operating at the lowest available level within the controlled airspace above.

1.6 Pilots operating in Class G airspace are encouraged to obtain an appropriate air traffic service (see ENR 1 sections 2.3 and 2.4 or CAP 774 – UK Flight Information Service) from the designated air traffic service unit. Pilots who operate within Class G airspace, especially those who operate proximate to the boundary of controlled airspace, and have chosen not to obtain a suitable ATS in an aircraft fitted with a serviceable transponder are reminded to:

- monitor the appropriate ATS frequency whilst displaying the corresponding frequency monitoring code; or
- display the appropriate conspicuity code.

2 ATS Airspace Description

2.1 Class A - Controlled Airspace

	IFR	VFR
Service	Air Traffic Control Service.	VFR FLIGHT
Separation	Separation provided between all IFR flights by ATC.	
ATC Rules	Flight Plan required **(See Note 1)**; ATC clearance required; Radio Communication required; ATC instructions are mandatory.	NOT
VMC Minima	**At and above FL 100:** 8 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Below FL 100:** 5 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **(See Note 2)**	PERMITTED
Speed Limitation	As published in procedures or instructed by ATC.	

Note 1: *In certain circumstances, Flight Plan requirements may be satisfied by passing flight details on RTF (detailed at ENR 1.10).*

Note 2: *For the purposes of:*

a) Climbs and descents maintaining VMC;
b) Powered aircraft - Airways crossings (ENR 1.1, paragraph 1.6.1.6.1);
c) Powered aircraft - other penetrations of Airways (ENR 1.1, paragraph 1.6.1.6.2).

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.1.1 **Notifications**

2.1.1.1 The following airspace is notified as Class A:

a) **All Control Areas and TMAs below FL 195 within the London and Scottish FIRs** except those listed in ENR 1.4 Para 2.3.1.2, 2.4.1.1 and 2.5.1.1.

b) **Channel Islands Terminal Control Area (North and South);**

Outside the notified hours of watch of the Jersey Air Traffic Control Unit:

i. Those parts of the Channel Islands TMA (South), which lie within the Brest FIR are notified as Class E and are controlled by Brest ACC.
ii. Those parts of the Channel Islands TMA (North) which lie within the London FIR and are located below the lower limits of the Berry Head and Portsmouth CTAs are notified as Class G.

c) **Shanwick Oceanic Control Area;**

The Shanwick Oceanic Control Area is notified as Class A.

2.1.2 **Glider operations in Class A Airspace**

In certain notified portions of Class A airspace, gliders are permitted to operate without reference to ATC in accordance with specified conditions and neither separation nor traffic information will be provided in respect of such flights. When such activity occurs, such airspace will be segregated from other traffic, which is provided with at least standard separation from the segregated airspace. Such segregated activities are undertaken in accordance with the flexible use of airspace provisions contained within Commission Regulation (EC) 2150 of 2005.

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.2 Class B - Controlled Airspace

	IFR	VFR
Service	Air Traffic Control Service.	
Separation	Separation provided between all flights by ATC.	
ATC Rules	Flight Plan required **(See Note)**; ATC clearance required; Radio Communication required; ATC instructions are mandatory.	
VMC Minima	Not applicable.	**At and above FL 100:** 8 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Below FL 100:** 5 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud.
Speed Limitation	As published in procedures or instructed by ATC.	

Note: *In certain circumstances, Flight Plan requirements may be satisfied by passing flight details on RTF (detailed at ENR 1.10).*

No UK Airspace is currently designated Class B.

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.3 Class C - Controlled Airspace

	IFR	VFR
Service	Air Traffic Control Service.	
Separation	Separation provided between all IFR flights by ATC.	All VFR flights separated from all IFR flights by ATC. Traffic information provided on other VFR flights and traffic avoidance advice on request.
ATC Rules	Flight Plan required **(See Note);** ATC clearance required; Radio Communication required; ATC instructions are mandatory.	
VMC Minima	Not applicable.	**At and above FL 100:** 8 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Below FL 100:** 5 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud.
Speed Limitation	As published in procedures or instructed by ATC.	**Below FL 100:** 250 KT IAS; **OR** lower when published in procedures or instructed by ATC.

Note: *In certain circumstances, Flight Plan requirements may be satisfied by passing flight details on RTF (detailed at ENR 1.10).*

2.3.1 **Notifications**

2.3.1.1 Above FL 195 all airspace in the London and Scottish FIRs/UIRs is notified as Class C.

2.3.1.2 Below FL 195 the following Airspace is also notified as Class C Airspace:

a) Clacton CTAs 10, 11, 12;
b) Cotswold CTAs 2, 15, 16, 17, 18;
c) Daventry CTAs 21, 22, 23, 24, 25;
d) Holyhead CTA (excluding CTAs 15 and 16);
e) Londonderry/Eglinton CTA;
f) North Sea CTA;
g) Portsmouth CTA 3;
h) Severn CTA.

2.3.2 **VFR Flight in Class C Airspace**

2.3.2.1 General arrangements for VFR flight in Class C airspace are specified at ENR 1.1, sub-section 4.

2.3.2.2 Specific arrangements for glider operations within Temporary Reserved Areas in Class C airspace above FL 195 are detailed at ENR 1.1, paragraph 1.11 (Charts see ENR 6-64 and ENR 6-65).

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.4 Class D - Controlled Airspace

	IFR	VFR
Service	Air Traffic Control Service.	
Separation	Separation provided between all IFR flights by ATC. Traffic information provided on VFR flights and traffic avoidance advice on request.	ATC separation not provided. Traffic information provided on IFR flights and other VFR flights; traffic avoidance advice on request.
ATC Rules	Flight Plan required **(See Note 1)**; ATC clearance required; Radio Communication required; ATC instructions are mandatory.	
VMC Minima	Not applicable.	**At and above FL 100:** 8 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Below FL 100:** 5 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Alternatively, during day only, at and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher (See Note 2):** a) **For aircraft other than helicopters, flying at 140 KT IAS or less:** 5 KM flight visibility Clear of cloud and with the surface in sight. b) **For helicopters, flying at 140 KT IAS or less:** 1500 M flight visibility Clear of cloud and with the surface in sight.
Speed Limitation	**Below FL 100:** 250 KT IAS; **OR** lower when published in procedures or instructed by ATC.	

Note 1: *In certain circumstances, Flight Plan requirements may be satisfied by passing flight details on RTF (detailed at ENR 1.10).*

Note 2: *The VMC criteria stated in the table above for flight by day at and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher, reflect changes from SERA.5001 Table S5-1, as enabled through the Aviation Safety (Amendment) Regulation 2021.*

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.4.1 **Notifications**

2.4.1.1 The following airspace is notified as Class D Airspace during the notified hours of watch of the appropriate Air Traffic Control Unit.

Aberdeen Control Zone/Control Area **(Notes 1 and 2(a))**;
Balder Control Area **(Note 3)**;
Belfast Control Zone;
Belfast Terminal Control Area;
Belfast/City Control Zone/Control Area;
Birmingham Control Zone/Control Area;
Borders Control Area 5, 9, 10, 11, 12, 13 & 14;
Bournemouth Control Zone **(Note 1)**;
Bristol Control Zone/Control Area;
Brize Norton Control Zone;
Cardiff Control Zone/Control Area;
Channel Islands Control Zone/Control Area;
East Midlands Control Zone/Control Area;
Edinburgh Control Zone/Control Area **(Notes 1 and 2(b))**;
Ekofisk Control Area **(Note 3)**;
Farnborough Control Zone/Control Area **(Note 1);**
Glasgow Control Zone/Control Area **(Notes 1 and 2(b))**;
Isle of Man Control Zone/Control Area **(Note 1)**;
Leeds Bradford Control Zone/Control Area **(Note 1)**;
Liverpool Control Zone/Control Area;
London Control Zone;
London/City Control Zone/Control Area;
London Gatwick Control Zone/Control Area;
London Luton Control Zone/Control Area;
London Stansted Control Zone/Control Area;
Manchester Control Zone/Control Area;
Newcastle Control Zone/Control Area **(Notes 1 and 2(b))**;
Norwich Control Zone/Control Area **(Note 1)**;
Prestwick Control Zone/Control Area **(Note 2(b))**;
Scottish Terminal Control Area as shown at ENR 6-37;
Solent Control Area **(Note 1)**;
Southampton Control Zone **(Note 1)**;
Southend Control Zone/Control Area;
Strangford Control Area below FL 195;
Sumburgh Control Zone/Control Area **(Note 2(c))**;
Tay Control Area 10, 11, 12 & 13;
Teesside International Control Zone/Control Area;
Yorkshire Control Area 17.

Note 1

Notified as Class D Airspace for the purposes of SERA.6001 Classification of Airspaces, during the notified hours of watch of the appropriate Air Traffic Control Unit subject to the conditions in Note 2.

Note 2

a) An aircraft without radio equipment must not fly in Class D Airspace during the notified hours of watch of the appropriate air traffic control unit unless it has been otherwise authorised by the appropriate air traffic control unit and is subject to the conditions at paragraph (c).
b) An aircraft without radio equipment and flown in accordance with the Instrument Flight Rules must not fly in Class E Airspace during the notified hours of watch of the appropriate air traffic control unit unless it has been otherwise authorised by the appropriate air traffic control unit and is subject to the conditions at paragraph (c).
c) For the purposes of paragraphs (1) and (2), the conditions are that the aircraft must:

i. only fly during the day;
ii. only fly within notified controlled airspace notified for the purpose of this paragraph;
iii. remain at least 1500 M horizontally and 1000 FT vertically away from cloud and in a flight visibility of at least 5 KM;
iv. comply with any electronic conspicuity requirements specified by the air traffic control unit; and
v. comply with any other conditions specified by the appropriate air traffic control unit. (As applied to the Isle of Man by the Civil Aviation (Subordinate Legislation) (Application) (No 2) Order 1996).

Note 3

a) Balder CTA, Ekofisk CTA and Ekofisk RMZ.

At Polaris ACC (SG West), Sector Offshore is manned with Air Traffic Controllers and a Flight Data Operator (FDO), working frequencies 125.550 MHz, 134.200 MHz and 125.875 MHz, for Ekofisk RMZ 130.550 MHz. The operation of ADS-B is mandated in those volumes of the Balder and Ekofisk CTA where the provision of air traffic services has been delegated by the UK to Norway. The following procedures outline the access arrangements for these volumes of airspace:

i. The UK MOD reserves the right of access to such airspace for State aircraft regardless of their equipage or ability to comply with the requirements set out by the delegated service provider; for:

- Aircraft in an emergency;
- Aircraft involved in National Security tasks, where possible under the positive control of either: Land, Maritime or Airborne Units;
- Aircraft engaged in Maritime operations, under positive control;
- For Ekofisk RMZ; unless in an emergency, when an emergency squawk may be required, aircraft under positive control will wear a listening squawk of 0455 whilst monitoring 130.550 MHz when inside the RMZ. The Queen Elizabeth (QE) Class aircraft carriers may wish to utilise dedicated squawks subject to co-ordination with Offshore Sector 20 Ekofisk as per para (c).

Under such circumstances UK State aircraft will operate within the subject airspace under ‘due regard’ procedures in accordance with Article 3d to the Convention of International Civil Aviation.

ii. Specific procedures to enable UK MOD (including UK based USAFE) aircraft to conduct normal operational training sorties are detailed below.

b) **Procedures for Coordination of Operational Air Traffic (OAT).**

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

i. **Coordination of Planned OAT Exercises.** Planned military OAT exercises within the Area of Common Interest (see relevant section of LOA) should be coordinated with Polaris ACC SG West at least 24 hours prior to the start of the exercise, with a request for Special Use Airspace (SUA) for the planned exercise. In a normal offshore helicopter traffic situation (priorities may need to be defined) Polaris ACC SG West will give an approval for the SUA request.

The SUA request shall contain:

1. The lateral and vertical limits of the Exercise Area;
2. The time for start and finish of the Exercise, including means of activation and deactivation of the Exercise Area;
3. Contact information for the Exercise Coordination Unit;
4. Other operational information related to the Exercise, such as number of aircraft involved, if applicable.

ii. **Special Procedures for Coordination of OAT Operations.**

1. **Purpose.** Outwith Exercise scenarios, when MOD OAT requires to operate within the Area of Common Interest (ACI), the OAT will normally require to be controlled by a MOD Operational Control Unit (OCU) during the operations. OAT operations within the ACI are to remain outside of the lateral limits of Helicopter Traffic Zones (HTZ).
2. The following coordination procedures are to be applied between UK MOD units and Polaris ACC SG West in respect of OAT carrying out operations and training within the ACI when prior co-ordination of the OAT operations is not applicable. The procedures are designed to ensure safe operations for both civil offshore helicopters and OAT operating simultaneously within the ACI.
3. **Procedures for OAT Coordination.** When OAT operations are required within the ACI, the appropriate UK MOD OCU or the OAT planning to enter the ACI, shall contact the appropriate sector at Polaris ACC SG West, on the appropriate frequency or telephone line, prior to entering the ACI, with the following information, where applicable:

(aa) MOD OCU or OAT callsign;

(bb) The estimated position and a time for the OAT entering the ACI;

(cc) Expected direction and estimated period of time for the OAT operations within ACI;

(dd) The lateral and vertical limits of the Operating Area;

(ee) Maximum altitude for the OAT operations within ACI;

(ff) Radar transponder status, including SSR code, if applicable (aircraft may not be ADS-B-out equipped);

(gg) Other information, such as contact information to the MOD OCU.

When OAT operations within the ACI are finished, the appropriate MOD OCU or the OAT shall contact the appropriate sector at Polaris ACC SG West, on the allocated frequency or telephone line, to deactivate the OAT operations within the ACI and release the airspace for civil helicopter operations.

c) **Communications.**

i. Exchange of Operational Air Traffic Information.

1. Means of Communication.

(aa) Equipment.

Fixed Communication with Polaris ACC SG West via public telephone lines (see para (c)(2)) or Mobile VHF Communication with Polaris ACC SG West (see para (c)(3)).

2. **Telephone Coordination.** Exchange of Airspace Requests, flight plan data, estimates and other OAT-messages by telephone shall be carried out in accordance with the tables below:

(aa) **Messages to Polaris ACC SG West.**

Switchboard: +47 51 65 8000
Supervisor: +47 51 65 8142
Sector Offshore (FDO): +47 51 65 8155
Sector Offshore (ATCO): +47 51 65 8232
Telefax: +47 51 65 8154

3. **VHF RX/TX Communication**

ATC Sector	R/T Callsign	Frequency	Hours of Operation
Offshore Sector 20 Ekofisk	Polaris Control	125.875 MHz	0600-2030 Mon-Fri*
Offshore Sector 21 Balder	Polaris Control	134.200 MHz	0600-2030 Mon-Fri*
Offshore Sector 22 Statfjord	Polaris Control	125.550 MHz	H24

Note: **Published opening hours are in UTC. During summer time period 1 hour earlier.*

ATS Offshore is provided by Polaris ACC SG West Sector South (Sector 20 and 21) and Sector North (Sector 22) outside Sector Offshore opening hours.

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.5 Class E - Controlled Airspace

	IFR	VFR
Service	Air Traffic Control Service.	Traffic information in accordance with UK FIS (Basic Service or Traffic Service) - see ENR 1.1, ENR 1.6 and Civil Aviation Publication (CAP) 774 - UK Flight Information Services.
Separation	Separation provided between all flights by ATC. Whenever practicable, traffic information is provided on VFR flights and if requested by the pilot or if deemed necessary by the controller, traffic avoidance advice will be suggested **(See Note 3 and 4)**.	None.
ATC Rules	Flight Plan required **(See Note 1 and 2)**; ATC clearance required; Radio Communication required; ATC instructions are mandatory.	None. However, pilots are encouraged to contact ATC and comply with instructions.
VMC Minima	Not applicable.	**At and above FL 100:** 8 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Below FL 100:** 5 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud.
Speed Limitation	**Below FL 100:** 250 KT IAS; **OR** lower when published in procedures or instructed by ATC.	

Note 1: *In certain circumstances, Flight Plan requirements may be satisfied by passing flight details on RTF (detailed at ENR 1.10).*

Note 2: *Pilots of IFR flights will be advised when they enter and leave Class E airspace if the flight is an unplanned diversion or no flight plan has been filed prior to requesting a clearance to enter controlled airspace.*

Note 3: *Pilots of IFR flights and VFR flights receiving an ATS should be aware of the existence of factors that might adversely affect the ability of a controller to detect a collision hazard and provide timely and accurate traffic information and/or traffic avoidance advice within class E airspace. Such factors include:*

- *The inability of an ATSU to restrict the volume of VFR flights operating within class E airspace;*
- *The inability of an ATSU to anticipate changes in the flightpath of every VFR flight;*
- *The inability of an ATSU to detect collision hazards on every occasion because of surveillance clutter;*
- *The inability of an ATSU to provide timely transmissions on every occasion because of RTF congestion;*
- *The expectation that pilots receiving an ATS will respond appropriately following receipt of traffic information; and*
- *The requirement for the provision of an air traffic control service to have precedence over the provision of flight information service (SERA.9001(c)).*

Note 4: *Pilots must consider the need for traffic avoidance advice upon receipt of traffic information. Pilots who require traffic avoidance advice must make a corresponding request as soon as is practicable.*

2.5.1 Notifications

2.5.1.1 The following airspace below FL 195 is notified as Class E Airspace:

a) Parts of the Scottish Terminal Control Area below 6000 FT (See ENR 6-37);
b) Parts of the Farnborough Control Area (See **Note 1**);
c) Holyhead CTA 15 and CTA 16 (See **Note 1**);
d) Argyll CTA (See **Note 1**);
e) Moray CTA (See **Note1**);

Note 1: *Additionally notified as Transponder Mandatory Zone airspace for the purposes of the UK Air Navigation Order.*

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.5.1.2 Pilots of VFR flights who wish to operate without receiving an ATS within class E airspace in an aircraft with a serviceable transponder, or within class E airspace additionally notified as TMZ must display either:

a) The VFR conspicuity code Mode A7000, with altitude reporting; or
b) The frequency monitoring code defined as VFR conspicuity with altitude reporting established for use in that airspace (see ENR 1.6).

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.6 Class F - Advisory Airspace

	IFR	VFR
Service	Air Traffic Advisory Service.	UK Flight Information Services as required (Basic Service, Traffic Service).
VMC Minima	Not applicable.	**At and above FL 100:** 8 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Below FL 100:** 5 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **At and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher:** 5 KM flight visibility Clear of cloud and with the surface in sight. **Alternatively, during day only, at and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher, for all aircraft, flying at 140 KT IAS or less (See Note)**: 1500 M flight visibility Clear of cloud and with the surface in sight.
Speed Limitation	**Below FL 100:** 250 KT IAS; **OR** lower when published in procedures or instructed by ATC.	

Note: *The VMC criteria stated in the table above for flight by day at and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher, reflect changes from SERA.5001 Table S5-1, as enabled through the Aviation Safety (Amendment) Regulation 2021.*

No UK Airspace is currently designated Class F.

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

2.7 Class G Airspace

	IFR	VFR
Service	UK Flight Information Services as required (Basic Service, Traffic Service, Deconfliction Service or Procedural Service)	
Separation	ATC Separation cannot be provided due to the nature of the unknown Class G traffic environment. Deconfliction advice is provided against participating aircraft under a Procedural Service or against participating and non-participating traffic (unknown traffic) under a Deconfliction Service. Both the Procedural Service and Deconfliction Service aim to achieve planned deconfliction minima.	
ATC Rules	Instructions issued by controllers to pilots operating outside controlled airspace are not mandatory; however, the services rely upon pilot compliance with the specified terms and conditions so as to promote a safer operating environment for all airspace users.	
VMC Minima	Not applicable.	**At and above FL 100:** 8 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **Below FL 100:** 5 KM flight visibility 1500 M horizontal and 1000 FT vertical distance from cloud. **At and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher:** 5 KM flight visibility Clear of cloud and with the surface in sight. **Alternatively, during day only, at and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher, for all aircraft, flying at 140 KT IAS or less (See Note):** 1500 M flight visibility Clear of cloud and with the surface in sight.
Speed Limitation	**Below FL 100:** 250 KT IAS; **OR** lower when published in procedures or instructed by ATC.	

Note: *The VMC criteria stated in the table above for flight by day at and below 3000 FT AMSL, or 1000 FT above terrain, whichever is the higher, reflect changes from SERA.5001 Table S5-1, as enabled through the Aviation Safety (Amendment) Regulation 2021.*

2.7.1 **Designation**

2.7.1.1 All UK Airspace, including that above FL 660, not included in Classes A to F.

2.7.2 **Aerodrome Traffic Zones and Notification for Rule 11**

2.7.2.1 Aerodrome Traffic Zones (ATZs) are not included in the Airspace Classification System. An ATZ assumes the conditions associated with the Class of Airspace in which it is situated.

2.7.2.2 Every aerodrome at which an ATZ is established is notified for the purposes of Rule 11 of the Rules of the Air Regulations 2015. As a minimum therefore, when flying within an ATZ the requirements of Rule 11 must be complied with.

2.7.2.3 ATZs at civil licensed aerodromes are notified in the UK AIP within individual aerodrome entries. ATZs at other than civil licensed aerodromes are notified in the UK AIP at ENR 2-2.

2.7.2.4 Where the requirements of the Class of Airspace of which an ATZ forms a part are more stringent than Rule 11 then those must be complied with in addition to the requirements of Rule 11 to enter the ATZ.

2.7.2.5 Aerodromes at which ATZs may be established are those which:

a) A government aerodrome, at such times as are notified; or
b) An aerodrome having an air traffic control unit or flight information service centre, during the notified hours of watch of the air traffic control unit or the flight information service centre; or

ENR 1.4 ATS AIRSPACE CLASSIFICATION AND DESCRIPTION (continued)

c) A national licensed aerodrome or an EASA certificated aerodrome having an air/ground communications service unit with aircraft, during the notified hours of watch of the air/ground communications service unit.

2.7.2.6 An aircraft must not fly, take off or land within the Aerodrome Traffic Zone of an aerodrome unless the commander of the aircraft has complied with the following paragraphs, where appropriate,

a) If the aerodrome has an air traffic control unit the commander must obtain the permission of that unit to enable the flight to be conducted safely within the aerodrome traffic zone.
b) If the aerodrome provides a flight information service the commander must obtain information from the flight information centre to enable the flight to be conducted safely within the aerodrome traffic zone.
c) If there is no flight information centre at the aerodrome the commander must obtain information from the air/ground communication service to enable the flight to be conducted safely within the aerodrome traffic zone.

2.7.2.7 The commander of an aircraft flying within the aerodrome traffic zone of an aerodrome must,

a) Cause a continuous watch to be maintained on the appropriate radio frequency notified for communications at the aerodrome; or
b) If this is not possible, cause a watch to be kept for such instructions as may be issued by visual means; and
c) If the aircraft is fitted with means of communication by radio with the ground, communicate the aircraft's position and height to the air traffic control unit, the flight information centre or the air/ground communications service unit at the aerodrome (as the case may be) on entering the aerodrome traffic zone and immediately prior to leaving it.

2.7.2.8 Permanent or temporary changes/extensions to ATZ hours may be notified by United Kingdom NOTAM. Pilots should exercise caution, however, since some airfields may continue to operate outside of those notified and published hours.

ENR 1.5 HOLDING, APPROACH AND DEPARTURE PROCEDURES

1 General

1.1 UK Holding, Approach and Departure Procedures have been established in accordance with the ICAO Document 8168 (PANS-OPS), except for those UK differences shown at GEN 1.7 and in UK CAA CAP 785 B.

1.2 The UK Instrument Flight Procedures are listed in AD 2.24.

1.3 PANS-OPS vol I and III stresses the need for flight crew and operational personnel to adhere strictly to the published procedures to achieve and maintain an acceptable level of safety in operations.

1.4 Continuous Descent Final Approach 'CDFA technique' is the preferred method for non-precision approaches in the UK where practicable.

2 Arriving Flights

2.1 Introduction

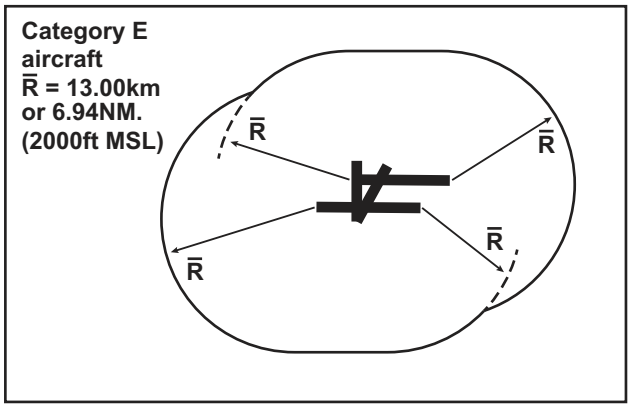
2.1.1 Aerodrome specific arrival procedures can be found in the relevant AD 2.22 Flight Procedures and AD 2.24 charts.

2.2 Visual Manoeuvring (Circling) VM(C) in the Vicinity of the Aerodrome after Completing an Instrument Approach

2.2.1 Visual Manoeuvring (Circling) VM(C) is the term used to describe the visual phase of flight, after completing an Instrument Approach, where an aircraft is manoeuvred into position for a landing on a runway which is not suitably located for a straight-in approach.

2.2.2 The VM(C) area is the area in which obstacle clearance has been considered for aircraft manoeuvring visually before landing. Aircraft performance has a direct effect on the airspace and visibility needed to perform the circling manoeuvre; since the most significant factor in performance is speed, the size of the VM(C) area varies with the category of the aircraft. The limits of the area applicable to each category of aircraft are defined by combining arcs centred on the threshold of each usable runway; the total area thus enclosed is the VM(C) area - see example at Figure 1.

Figure 1. Construction of Visual Manoeuvring (Circling) Area for a Category E Aircraft



2.3 Obstacle Clearance

2.3.1 When the VM(C) area has been established, the Obstacle Clearance Height (OCH) is determined for each category of aircraft. The criteria used to determine the OCH is as follows:

Aircraft Category	Maximum Speeds for Circling (KT)	Circling Area Maximum radii from RWY THR (NM)	Minimum Obstacle Clearance (FT)	Lowest Permissible OCH AAL (FT)
A	100	1.68	300	400
B	135	2.66	300	500
C	180	4.20	400	600
D	205	5.28	400	700
E	240	6.94	500	800

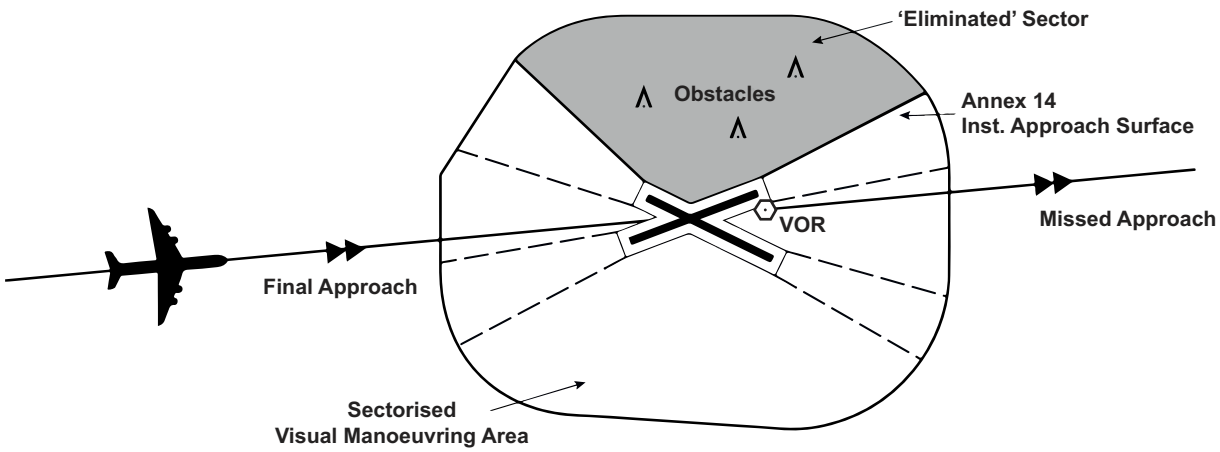
2.4 Sectorization of Visual Manoeuvring (Circling) Area

2.4.1 It is permissible to eliminate from obstacle clearance consideration a particular sector, within the total VM(C) area, where the sector lies outside the final approach and missed approach areas; this 'eliminated' sector is determined by the dimensions of the ICAO

ENR 1.5 HOLDING, APPROACH AND DEPARTURE PROCEDURES (continued)

Annex 14 instrument approach surfaces - see example at Figure 2.

Figure 2. Sectorized Visual Manoeuvring (Circling) Area



2.5 **Obstacle Clearance Heights for Aerodromes with Published Instrument Approach Procedures**

2.5.1 Visual Manoeuvring (Circling) (VM(C)) OCHs are listed for the total VM(C) area, and where operational advantage can be gained by sectorization, for the relevant sectorized VM(C) area also.

2.5.2 When the principle of sectorization has been applied to a particular aerodrome, two OCA(H) values for VM(C) will be promulgated at AD 2.24. The first OCA(H) will allow a pilot to manoeuvre safely within the total VM(C) area and the second OCA(H) is for the pilot who exercises the option to avoid manoeuvring within the eliminated sector and restricts his visual manoeuvring to the remaining sectorized area.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**369**(164)	**376**(171)	**385**(180)	**395**(190)
VM(C)OCA (OCH AAL)	Total Area	**1150**(935)	**1320**(1105)	**1420**(1205)	**1420**(1205)
	East of RWY 16/34	**720**(505)	**940**(725)	**1050**(835)	**1070**(855)

2.5.3 The OCA(H) for the visual manoeuvring (circling) shall not be less than the OCA(H) calculated for the instrument approach procedure which leads to the circling manoeuvre.

2.6 **Summary of Holding and Approach to Land Procedures at Individual Aerodromes**

2.6.1 Instrument approach procedures with both precision and non-precision straight in Obstacle Clearance Heights will be heights above the published threshold elevation.

2.6.2 VM(C) Obstacle Clearance Heights will be heights above published aerodrome elevation.

2.6.3 Where the term 'straight ahead' is used in missed approach procedures, pilots should maintain Final Approach Track (FAT) unless a different track is given.

2.6.4 For availability of Instrument Approach Charts, see GEN 3.2.

2.7 **Descent Gradient**

2.7.1 To permit the approximate rates of descent required in the intermediate and final approach segments of non-precision Instrument Approach Procedures to be calculated, whenever an Intermediate Fix (IF) or Final Approach Fix (FAF) is included in a non-precision procedure, the descent path required in the corresponding approach segment will be specified, as a percentage gradient.

2.8 **Procedure Turns**

2.8.1 Except where an 80°/260° procedure turn is specifically prescribed, procedure turns specified in instrument approach procedures may be flown as 45°/180° or 80°/260° type, at pilots' discretion.

2.8.2 Since the 80°/260° procedure turn occupies less airspace along track than the 45°/180° type, aircraft completing an 80°/260° manoeuvre will normally return to the extended Final Approach Track approximately 1 NM closer to the FAP or FAF (when provided) than if a 45°/180° manoeuvre had been used; pilots using an 80°/260° manoeuvre should allow for this factor when preparing for any subsequent inbound descent. Where an 80°/260° procedure turn is specifically prescribed, due allowance for

this factor will already be provided in the procedure design.

2.9 **Race-track Procedure**

2.9.1 Extensions to holding patterns may be specified in some cases as alternative procedures for use after holding. Where such alternative procedures are joined without first entering the hold, they should be joined and flown as race-track procedures. However, because of the requirement to intercept the inbound track before returning to the facility following a Sector 1 parallel entry in such procedures, and its effect on the distance available for any subsequent descent, aircraft joining a race-track procedure from Sector 1 are recommended to join the hold prior to entering the racetrack.

2.10 **Established**

2.10.1 Aircraft are considered to be 'established' when they are within half full-scale deflection for the ILS and VOR, or within ± 5° of the required bearing for NDB(L).

2.11 **Missed Approach Climb Gradient**

2.11.1 Unless otherwise specified, the normal climb gradient upon which Missed Approach Procedures are based is 2.5% (1 in 40).

2.11.2 Where an operational advantage can be gained from an increased missed approach climb gradient, an additional OCA(H) associated with the increased missed approach climb gradient will also be published.

2.12 **Radar Approach Procedures**

2.12.1 During the Intermediate phase of the procedure the pilot will be asked to check both his Minima and the Missed Approach Point (MAPt); he will not be given the OCA(H) for his category of aircraft nor the location of the MAPt unless he specifically requests this information.

2.12.2 SRA procedures designed to ICAO PANS-OPS criteria permit descent on final approach to the OCA(H) (subject to any specified height/distance (Step Down Fix (SDF) limitation), without regard to the 'advisory altitudes/ heights' given by the Controller. These 'advisory altitude/heights' are not essential for obstacle clearance and are only provided as a guide to pilots wishing to maintain a constant angle descent path.

2.12.3 Pilots flying an SRA requiring the alternative datum profile, will be passed advisory altitudes/heights based on the appropriate datum and rounded up to the nearest 10 FT.

2.12.4 Pilots are recommended to fly to the radar advisory altitude/heights. However, where an SDF is specified as part of the procedure the SDF 'not-below' altitude/height is mandatory. Adherence to the nominal descent gradient defined by advisory altitude/ heights will ensure compliance with SDF minimum altitude/height requirements.

2.12.5 A MAPt is designated for each procedure; it is normally located at the point where the radar approach terminates (Radar Termination Range (RTR)). However, where operationally advantageous, the MAPt for the 2 NM SRA may be designated as 1 NM after RTR (i.e., 1 NM before touch down zone).

Note: *Where the MAPt is designated as 1 NM after RTR, talkdown will still cease at 2 NM (RTR), and it will be the pilot's responsibility to determine when the MAPt has been reached.*

3 Departing Flights

3.1 Aerodrome specific departure procedures can be found in the relevant AD 2.21 Noise Abatement Procedures, AD 2.22 Flight Procedures and AD 2.24 charts.

4 Other Relevant Information and Procedures

4.1 **FM Broadcast Interference**

4.1.1 Aircraft ILS/VOR equipment may experience interference from high powered FM broadcast stations in the radio frequency band 88 - 108 MHz (GEN 3.4 refers). Pilots are warned that instrument approach procedures based on ILS/VOR may not be available.

4.2 **Protection of Instrument Approach Procedures at Aerodromes outside Controlled Airspace**

4.2.1 Aerodromes located outside Controlled Airspace, for which Instrument Approach Procedures (IAP) are published, are identified by a 'feathered arrow' symbol on the Aeronautical Charts ICAO Scale 1: 500 000 United Kingdom and the Topographical Air Charts of the United Kingdom Scale 1: 250 000. Portrayal on these charts is provided to assist pilots of VFR flights to avoid confliction with IFR traffic at these aerodromes. Pilots are urged to take this information into account in their pre-flight planning.

ENR 1.5 HOLDING, APPROACH AND DEPARTURE PROCEDURES (continued)

4.2.2 For further information relating to Air Traffic Services at Aerodromes outside Controlled Airspace, please refer to GEN 3.3 Air Traffic Services.

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES

1 Primary Radar

1.1 General

1.1.1 Generally, the UK subscribes to the procedures for the use of ATS surveillance systems in the provision of ATS which are detailed within PANS-ATM (Doc 4444). Exceptions are the ATS surveillance service provided to VFR flights in class E airspace, and to all flights in class G airspace. These arrangements are described in ENR 1.1 paragraph 2 and summarised in ENR 1.6 paragraph 1.2.

1.2 Types of ATS Surveillance Service

1.2.1 **ICAO References**

Doc 4444, paragraph 8.

1.2.2 The provision of an Air Traffic Service is dependent upon specific types of airspace. Details of the services provided are stated in the table below.

Table (see also maps at ENR 6-9, ENR 6-10, ENR 6-70 and ENR 6-71).

Type of Airspace	Type of Service	ATC action with regard to Unknown Aircraft that may be in Unsafe Proximity to the Aircraft in Receipt of an Air Traffic Service
Class A, C and D Airspace.	Radar Control Service	If ATS surveillance system derived, or other information, indicates that the unknown aircraft is lost, has experienced radio failure or is making an unauthorised penetration of the airspace - avoiding action shall be given and traffic information shall be passed.
Class E Airspace, Controlled Airspace in which VFR flight without ATC clearance is permitted.		Pass traffic information unless the controller's primary function of sequencing and separating IFR flights is likely to be compromised. Avoiding action will be given at the request of pilots but to limits decided by the controller or if information has been received which indicates that a position indication/symbol may be a particular aircraft that is lost or experiencing radio failure.
Class G Airspace and Temporary Reserved Areas and all other airspace.	Deconfliction Service or Traffic Service	Traffic information will be passed followed by advice on avoiding action. or Traffic information will be passed but no avoiding action is to be given. The pilot is responsible for his own separation.

1.3 ATS Surveillance Service Outside Controlled Airspace

1.3.1 **London Control - Requests for Deconfliction Service or Traffic Service**

1.3.1.1 In order to avoid excessive RTF conversations on the frequencies used by 'London Control', pilots who intend to request such a service from 'London Control' are to make their initial request on the London Information frequency appropriate to their geographical position. The FISO will co-ordinate with the appropriate Radar Sector and subsequently inform the pilot whether or not a Deconfliction Service or Traffic Service can be provided and, if so, on what frequency.

1.3.1.2 Pilots should note that no Deconfliction Service or Traffic Service will be available on any London Control Frequency below FL 70. In any case a serviceable transponder will be a pre-requisite for either service.

1.4 Radar Vectoring — Controlled Airspace

1.4.1 At certain aerodromes where the associated Controlled Airspace does not encompass the Surveillance Minimum Altitude Area (SMAA), aircraft may be vectored outside the notified airspace for approaches to certain runways. The aerodromes and runways to which this procedure may apply are listed below:

Aerodromes	Runways	Aerodromes	Runways
Bournemouth	08	Prestwick	20
Leeds Bradford	14	Southend	05/23
London/City	27	Teesside International	05

1.5 Radar Vectoring for ILS Approach

1.5.1 **ICAO Reference**

Doc 4444, Chapter 8, paragraph 8.9.4.

1.5.2 Aircraft being positioned for final approach will be given a heading to close with the localizer at a range of at least 5 NM from the runway threshold and at a level below the glide path. The pilot will be told to complete the turn on and to report established on ILS, but at this point if he requests it, ATC will give another vector to bring the aircraft on to the localizer. If the pilot wishes to lock himself on to the localizer, he must ask permission from ATC when there is still time for the action to take place without crossing the

localizer.

1.5.3 On occasions in order to maintain the correct spacing between aircraft, ATC will deliberately vector the aircraft through the localizer for approach from the other side. Pilots will be warned when this manoeuvre is being given.

1.6 Terrain Clearance

1.6.1 **ICAO Reference**

Doc 4444, Chapter 8, paragraphs 8.6.5.2 and 8.6.5.3.

1.6.2 Controllers will ensure that levels assigned to IFR flights when in receipt of a Radar Control Service will provide at least the minimum terrain clearances given below:

1.6.2.1 Within 30 NM of the radar antenna but excluding the Final and Intermediate Approach Area: 300 M above any fixed obstacle which is closer than 5 NM to the aircraft or which is situated within the area 15 NM ahead of and 20 degrees either side of the aircraft's track. These distances may be reduced to 3 NM and 10 NM respectively where official CAA approval has been promulgated. Levels assigned to aircraft during initial approach will also provide this terrain clearance.

1.6.2.2 Outside 30 NM from the Radar Antenna, for flights on Airways, 300 M above any fixed obstacle within 15 NM of the centre-line; otherwise 300 M above any fixed obstacle within 30 NM of the aircraft.

1.6.2.3 Radar Controllers have no responsibility for the terrain clearance of, and will not assign levels to, aircraft operating Special VFR or VFR within controlled airspace which accept radar vectors.

Note: *In sections of ATS Routes where the base is defined as a Flight Level, the lowest usable level normally provides not less than 1500 FT Terrain Clearance.*

1.6.3 Within Class G Airspace, regardless of the service being provided, pilots are ultimately responsible for terrain clearance.

1.6.3.1 A Deconfliction Service shall only be provided to aircraft operating at or above the ATC unit's terrain safe level, unless on departure from an aerodrome when climbing to the ATC unit's terrain safe level, or when following notified instrument approach procedures.

1.6.3.2 Subject to ATS surveillance system coverage, a Traffic Service may be provided below ATC unit terrain safe levels. However, levels allocated by controllers shall be terrain safe unless an agreement is reached with the pilot, or such levels form part of VFR clearances for aerodrome arrival or to enter controlled airspace that by necessity require flight below the unit terrain safe levels. Controllers shall only instigate heading allocations when the aircraft is at or above an ATC unit's terrain safe level. However, if pilots request a heading from the controller whilst operating below the ATC unit terrain safe level, this may be provided as long as the controller reminds the pilot that he remains responsible for terrain clearance.

1.6.4 **ATC Surveillance Minimum Altitude Charts**

1.6.4.1 In November 2007, ICAO introduced new charting requirements for the depiction of minimum altitudes issued by a controller providing an ATC Surveillance service under the title ATC Surveillance Minimum Altitude Chart (ATCSMAC). The purpose of the ATCSMAC is to provide information that will enable flight crews to monitor and cross check altitudes assigned whilst receiving vectoring instructions from air traffic controllers.

1.6.4.2 In the UK, the ATCSMAC depicts the Surveillance Minimum Altitude Area(s) in the vicinity of a designated aerodrome. For the purposes of the UK application of ATCSMACs, the following definition of a Surveillance Minimum Altitude Area (SMAA) will apply:

'A Surveillance Minimum Altitude Area is a defined area in the vicinity of an aerodrome, in which the minimum safe levels allocated by a controller vectoring IFR flights with Primary and/or Secondary Radar equipment have been predetermined.'

1.6.4.3 Charts for individual aerodromes appear in the AIP Aerodrome Section (AD 2-EGXX-5-1). Each chart includes the following:

a) Outline of the Surveillance Minimum Altitude Area(s);
b) significant obstructions and spot heights;
c) minimum initial altitudes within the Surveillance Minimum Altitude Area(s) and detailed geographic delineation;
d) Final Approach Tracks;
e) Intermediate Approach Areas (where appropriate);
f) aerodrome elevation;
g) Transition Altitude;
h) Missed Approach instructions;
i) loss of communication procedures.

1.6.4.4 Further information about the criteria used in the design of ATCSMACs will be included in CAP 777 - ATC Surveillance Minimum Altitude Charts in UK Airspace, Policy and Design Criteria.

CAP 777 is available at: www.caa.co.uk (Publications).

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

1.7 Navigational Assistance

1.7.1 **ICAO Reference**

Doc 4444, Chapter 8, paragraph 8.6.6.

1.7.2 In order that a controller may provide the most appropriate advice/instructions, the pilot of an aircraft requesting navigational assistance when in receipt of an ATS surveillance service shall state the reason (eg to avoid areas of adverse weather or unreliable navigational instruments) and giving as much information as possible in the circumstances.

1.7.3 Identified aircraft operating within controlled airspace are deemed to be separated from unknown aircraft flying in adjoining uncontrolled airspace. However, whenever practicable the controller will aim to keep aircraft under his control at least 2 NM within the boundary of controlled airspace.

1.8 Weather Avoidance

1.8.1 **ICAO Reference**

Doc 4444, Chapter 8, paragraph 8.6.9.

1.8.2 In order to avoid weather, if a controller considers it expedient for the aircraft to leave controlled airspace, the pilot will be advised and will be responsible for accepting the detour into uncontrolled airspace.

1.8.3 In controlled airspace, a pilot using an aircraft radar and intending to detour around observed weather, must obtain a clearance from the controller before doing so. Under these circumstances, if it is necessary to leave controlled airspace the pilot must request permission to re-join.

2 Secondary Surveillance Radar (SSR)

2.1 General

2.1.1 In accordance with the Air Navigation Order, a SSR Mode S transponder shall be operated within the airspace notified at GEN 1.5, paragraph 5.3.1. In all other airspace, when a serviceable SSR transponder is carried, a pilot shall operate the transponder at all times during flight, regardless of whether the aircraft is within or outside airspace where SSR is used for ATS purposes in accordance with SERA.13001(a) and should enable pressure-altitude reporting if available, in order to facilitate detection of their aircraft by collision avoidance systems and ATS surveillance equipment.

2.1.2 Except for flight in airspace designated by the CAA for mandatory operation of transponder, aircraft without sufficient electrical power supply are exempted from the requirement to operate the transponder at all times.

2.1.3 In airspace where the operation of transponders is not mandatory, pilots of suitably equipped aircraft shall comply with paragraph 2.2.2.1.2.

2.1.4 With the exceptions detailed in paragraph 2 pilots **shall:**

a) If proceeding from an area where a specific Mode A code has been assigned to the aircraft by an ATS Unit, maintain that code setting unless otherwise instructed;
b) select or reselect Mode A codes, or switch off the equipment when airborne only when instructed by an ATS Unit;
c) acknowledge Mode A code setting instructions by reading back the code to be set;
d) select Mode C pressure-altitude reporting mode of the transponder simultaneously with Mode A unless otherwise instructed by an ATS Unit;

Note: *Where the term Mode C pressure-altitude reporting is used, the information and requirements also apply to pressure-altitude reporting employed by Mode S transponders in response to interrogations from Mode S radars.*

e) when reporting levels under routine procedures or when requested by ATC, state the current altimeter reading to the nearest 100 FT. This is to assist in the verification of Mode C pressure-altitude reporting data transmitted by the aircraft.

Note: *If, on verification there is a difference of more than 200 FT between the level readout and the reported level, the pilot will normally be instructed to switch off the Mode C pressure-altitude reporting mode of the transponder. If independent switching of Mode C pressure-altitude reporting is not possible, the pilot will be instructed to select Mode A code 0000 to indicate a transponder malfunction.*

2.2 Special Purpose Mode A Codes

2.2.1 Some Mode A codes are reserved internationally for special purposes and should be selected as follows:

a) Code 7700. To indicate an emergency condition, this code should be selected as soon as is practicable after declaring an emergency situation, and having due regard for the over-riding importance of controlling aircraft and containing the emergency. However, if the aircraft is already transmitting a discrete code and receiving an air traffic service, that code may be retained at the discretion of either the pilot or the controller;

b) Code 7600. To indicate a radio failure;
c) Code 7500. To indicate unlawful interference with the planned operation of a flight, unless circumstances warrant the use of Code 7700;
d) Code 1000. To indicate an aircraft conducting IFR flight as GAT, where the downlinked aircraft identification is validated as matching the aircraft identification entered in the flight plan;
e) Code 2000. When:

i. entering United Kingdom airspace from an adjacent region where the operation of transponders has not been required; or
ii. when operating within United Kingdom airspace in accordance with IFR and is either not receiving an ATS or has not received a specific instruction from ATS concerning the setting of the transponder; or
iii. unless instructed otherwise by ATS, Mode S transponder equipped aircraft on the aerodrome surface when under tow, or parked and prior to selecting Off or STBDY.

f) Code 7007. This code is allocated to aircraft engaged on airborne observation flights under the terms of the Treaty on Open Skies. Flight Priority Category B status has been granted for such flights and details will be published by NOTAM.

Note: *The Mode C pressure-altitude reporting mode of the transponder should be selected with all of the above Mode A codes.*

2.2.2 **Mode A Conspicuity Codes**

2.2.2.1 **General Conspicuity Codes**

2.2.2.1.1 When operating at and above FL 100 pilots of aircraft shall select the relevant Mode A conspicuity code (see paragraph 2.2.2.1.3) **and** the Mode C pressure-altitude reporting mode of the transponder except:

a) When receiving a service from an ATS Unit or Air Surveillance and Control System Unit which requires a different setting;
b) When circumstances require the use of one of the Special Purpose Mode A codes or one of the other specific Mode A conspicuity codes assigned in accordance with the UK SSR Code Allocation Plan as detailed in the table at paragraph 2.6 of ENR 1.6.

2.2.2.1.2 When operating a SSR equipped aircraft below FL 100 in circumstances where the operation of SSR transponders is not mandatory, pilots shall select the relevant Mode A conspicuity code (see paragraph 2.2.2.1.3) with Mode C pressure-altitude reporting if available, except:

a) As in sub-paragraphs 2.2.2.1.1 (a) and 2.2.2.1.1 (b); or
b) When selecting a Monitoring Code (see paragraph 2.2.5).

2.2.2.1.3 Types:

*7000 – VFR conspicuity code: when operating within United Kingdom airspace in accordance with VFR and have not received a specific instruction from ATS concerning the setting of the transponder.

*2000 – IFR conspicuity code: when operating within United Kingdom airspace in accordance with IFR and have not received a specific instruction from ATS concerning the setting of the transponder.

2.2.2.2 **Other Conspicuity Codes**

2.2.2.2.1 In addition to Special Purpose Codes and the General Conspicuity Codes detailed above, there are a number of other conspicuity codes in the UK SSR Code Allocation Plan, as detailed in the table at paragraph 2.6 of ENR 1.6. For ease of reference, those not specific to particular locations or ATS Units are listed in the table below:

Code	Use	Conditions/Remarks
*0024	Radar Flight Evaluation/Calibration	Aircraft conducting radar evaluation/calibration flights shall only squawk 0024 for the duration of the trial. The code shall not be used whilst transiting to/from the trial; in such circumstances the appropriate Mode A code as per paragraph 2.2.2.1 should be selected. May be selected at pilot's discretion.
*0033	Aircraft Paradropping	Unless a discrete Mode A code has already been assigned, pilots of transponder equipped aircraft should select Mode A code 0033, together with Mode C pressure altitude reporting mode of the transponder, five minutes before the drop commences until the drop is complete and parachutists or loads are known or estimated by the pilot to be on the ground.
*0450	Blackpool Basic Service Conspicuity	Aircraft in receipt of a Basic Service from Blackpool Approach. Shall only be selected with ATC direction.
*1177	London AC (Swanwick) FIS	Aircraft in receipt of a Basic Service from London Information. Shall only be selected with ATC direction.
*4520	Oxford Approach Basic Service	Aircraft in receipt of a Basic Service from Oxford Approach. Shall only be selected with ATC direction.

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Code	Use	Conditions/Remarks
*7001	Military Fixed-Wing Low Level Conspicuity and Climb-out	For use by military fixed-wing aircraft on passing 2000 FT MSD in the descent to the UK Low Flying System (LFS) and retained whilst operating in the LFS. When a radar service is required on climb-out from the LFS, the code will be retained until alternative instructions are passed by an ATC Unit. May be selected at pilot's discretion.
*7002	Danger Areas General	May be selected at pilot's discretion.
*7003	Red Arrows Transit/Display	May be selected at pilot's discretion.
*7004	Aerobatics and Display	For use by civil or military aircraft conducting solo or formation aerobatic manoeuvres, whilst displaying, practising or training for a display or for aerobatics training or general aerobatic practice. Unless a discrete Mode A code has already been assigned, pilots of transponder equipped aircraft should select *7004, together with Mode C pressure-altitude reporting mode of the transponder, five minutes before commencement of their aerobatic manoeuvres until they cease and resume normal operations. Pilots are encouraged to contact ATS Units and advise them of the lateral, vertical and temporal limits within which they will be operating and using *7004. Controllers are reminded that *7004 must be considered as unvalidated and the associated Mode C pressure-altitude reporting data unverified. Traffic information will be passed to aircraft receiving a service as follows: 'Unknown aerobatic traffic, (number) o'clock (distance) miles opposite direction/crossing left/right indicating (altitude) unverified (if Mode C pressure-altitude reporting data is displayed)'. May be selected at pilot's discretion.
*7005	High-Energy Manoeuvres	Unless a discrete Mode A code has already been assigned, outside controlled airspace below FL 195 and outwith the UK Low Flying System, pilots of military fast-jet aircraft should select *7005 prior to engaging in sustained high-energy manoeuvres. This will highlight to controllers the nature of the flight. Controllers should expect such aircraft to perform sudden and unpredictable changes in altitude and heading, and should be prepared to react accordingly. Controllers are reminded that the *7005 must be considered as unvalidated and the associated Mode C pressure-altitude reporting data unverified. May be selected at pilot's discretion.
*7006	Autonomous Operations within a TRA and TRA(G)	For use by military aircraft conducting autonomous operations within a TRA or TRA(G). May be selected at pilot's discretion.
*7010	Operating in an Aerodrome Traffic Pattern	For use by aircraft operating in an aerodrome traffic pattern, when instructed to do so by an ATS Unit or local operating instructions. Shall only be selected with ATC direction or in accordance with local aerodrome procedures.
*7401	Scottish FIS	Aircraft in receipt of a Basic Service from Scottish Information. Shall only be selected with ATC direction.

2.2.2.2.2 **Pilots are warned of the need for caution when selecting Mode A conspicuity codes in the 70xx series, due to the proximity of the Special Purposes Mode A codes.**

2.2.2.2.3 **Controllers are reminded that codes annotated with * are used for conspicuity, co-ordination or special purposes and the Mode A and associated Mode C pressure-altitude reporting data must be considered unvalidated and unverified.**

2.2.2.2.4 The use of aerodrome-specific conspicuity codes detailed in the UK SSR Code Plan (Table at paragraph 2.6 of ENR 1.6) should be strictly in accordance with local operating instructions/procedures as published by the relevant aerodrome.

2.2.3 **Transponder Testing**

2.2.3.1 Transponder testing has the potential to generate false SSR returns, thereby incorrectly triggering safety nets such as TCAS and short term conflict alert, with consequential disruption to flight crews and ATC and potential to cause an adverse safety impact. Therefore, individuals or Organisations intending to conduct ground-based transponder testing and maintenance shall take necessary precautions to ensure transponder transmissions cannot be erroneously identified as valid replies by airborne or ground interrogator systems that may detect them. Consequently, the following steps are strongly recommended:

a) Set the Mode A code to *0002 (UK-specific ground transponder testing code);
b) Use effective screening or absorption devices on the antennas or physically connect the ramp test set to the antenna system;
c) Where possible, conduct the testing inside a hangar, as this may provide additional shielding;

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d) Manually set the Mode C pressure-altitude data to either a high value (eg over 60000 FT) or an unrealistically low value (eg 2000 FT below ground);
e) Select the transponder(s) to 'OFF' or 'STANDBY' when testing is complete.

2.2.3.2 Additional guidance on transponder testing can be found in ICAO Annex 10 Vol IV, JAA TGL 13 and EUROCAE ED-73C.

2.2.4 **SSR Site Monitors/Far Field Monitors**

2.2.4.1 SSR site monitors, sometimes referred to as Far Field Monitors (FFMs) for Mode S radars, shall use Mode A codes *7776 and *7777, along with Mode C pressure-altitude data set to either a high value (eg over 60000 FT) or an unrealistically low value (eg 2000 FT below ground).

2.2.4.2 Mode S FFMs will also require an ICAO 24-bit address to uniquely identify them. These addresses shall be allocated as part of the National IFF/SSR Committee approval process. For further details contact: nisc@caa.co.uk

2.2.5 **Frequency Monitoring Codes**

2.2.5.1 In order to both prevent and mitigate the consequences of airspace infringements, pilots operating close to the peripheries of certain controlled airspace and monitoring the relevant frequency (but not requiring an Air Traffic Service) should select a local SSR conspicuity code and the Mode C pressure-altitude mode (if available) as specified to indicate they are monitoring the promulgated ATC frequency. This facility also exists for aircraft routing close to certain airfields outside controlled airspace to advise ATC that pilots are monitoring their frequency.

2.2.5.2 This will allow the appropriate Air Traffic Control Unit to attempt to establish contact with an aircraft which is displaying such a code and which is considered to be infringing, or is likely to infringe, controlled airspace in order to resolve an actual or potential infringement quickly and efficiently. For units outside controlled airspace, this will allow Air Traffic Control to attempt to establish contact with pilots in order to resolve potential conflictions. Selection of such codes does not imply the provision of any form of Air Traffic Service and the use of such codes does not prevent a pilot from requesting an Air Traffic Service at any time should they subsequently decide they require one.

2.2.5.3 In such circumstances, blind transmissions will be made by Air Traffic Control on the appropriate frequency including the code, position, level (if appropriate) and direction of flight of the observed contact. The Mode S-derived callsign may also be used. A pilot monitoring the frequency who suspects, on the basis of the information provided, that theirs is the aircraft being referred to should contact Air Traffic Control accordingly. At this point a discrete code may be assigned to confirm identity. The controller will establish the requirements of the pilot and will confirm the type of Air Traffic Service available. Exceptionally, Air Traffic Control may issue immediate instructions or advice to resolve a particular situation. For aircraft outside controlled airspace, Air Traffic Control may request the pilot's compliance to achieve coordination. If, after positive identification or on the basis of additional information provided by the pilot it is felt that the aircraft responding is not the aircraft concerned, the pilot will be informed accordingly and may continue to monitor the frequency and if necessary revert to the appropriate monitoring code.

2.2.5.4 Use of monitoring codes does not imply that any form of Air Traffic Service is being provided. The code and any associated Mode C pressure-altitude reporting data is considered to be unvalidated and unverified. Pilots remain responsible for their own navigation and in particular for obtaining permission to enter controlled airspace and Aerodrome Traffic Zones from the appropriate agency.

2.2.5.5 Any pilot who believes they are flying in the vicinity of the aerodromes listed below who is lost or temporarily uncertain of position should immediately seek navigational assistance from the appropriate radar unit. Alternatively, they should select code 0030 and contact London Centre on 121.500 MHz for assistance.

2.2.5.6 **Codes in Use**

Area/Aerodrome	SSR Code	Remarks
Aberdeen Airport	* 4270	This code may be used when flying in the vicinity of Aberdeen Airport and operating outside of the Aberdeen CTR/Aberdeen CTA but within the area defined in EGPD AD 2.22 FLIGHT PROCEDURES.
Belfast Aldergrove	* 7045	This code may be used when flying in the vicinity of Belfast Aldergrove, within the area defined in EGAA AD 2.22 FLIGHT PROCEDURES.
Belfast City	* 4255	This code may be used when flying in the vicinity of Belfast/City, within the area defined in EGAC AD 2.22 FLIGHT PROCEDURES.
Birmingham	* 0010	This code may be used when flying in the vicinity of Birmingham within the area defined in EGBB AD 2.22 FLIGHT PROCEDURES.
Bournemouth	* 0011	This code may be used when flying in the vicinity of Bournemouth Control Zone and monitoring Bournemouth Radar Frequency within the area defined in EGHH AD 2.22 FLIGHT PROCEDURES. The delineation with Solent is west of a line between Stoney Cross VRP and Hurst Castle VRP.
Bristol	* 5077	This code may be used when flying in the vicinity of Bristol controlled airspace within the area defined in EGGD AD 2.22 FLIGHT PROCEDURES.
Brize Norton	* 3727	This code may be used when flying outside of Brize Norton Zone and monitoring Brize Radar Channel 124.280.

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Area/Aerodrome	SSR Code	Remarks
Cardiff Airport	* 3636	This code may be used when flying in the vicinity of Cardiff Airport and operating outside of the Cardiff CTR/Cardiff CTA but within the area defined in EGFF AD 2.22 FLIGHT PROCEDURES.
East Midlands	* 4572	This code may be used when flying in the vicinity of the East Midlands Control Zones/ Areas and monitoring the East Midlands Radar Frequency. Pilots should refer to UK AIP EGNX AD 2.22 FLIGHT PROCEDURES for further details.
Edinburgh	* 0440	This code may be used when flying in the vicinity of Edinburgh within in the area defined in EGPH AD 2.22 FLIGHT PROCEDURES.
Farnborough	* 4572	This code may be used when flying in the vicinity of Farnborough; VFR within Class E airspace and VFR or IFR in Class G airspace. Pilots must monitor the LARS West Frequency. All pilots should refer to UK AIP EGLF AD 2.22 FLIGHT PROCEDURES for further details.
Glasgow Airport	* 2620	This code may be used when flying in the vicinity of Glasgow Airport within the area defined in EGPF AD 2.22 FLIGHT PROCEDURES.
Hawarden	* 4607	This code may be used when flying in the vicinity of Hawarden within the area defined in EGNR AD 2.22 FLIGHT PROCEDURES.
Leeds Bradford	* 2677	This code may be used when flying in the vicinity of Leeds Bradford within in the area defined in EGNM AD 2.22 FLIGHTPROCEDURES.
Liverpool	* 5060 (5067 for students flying solo)	This code may be used when flying in the vicinity of Liverpool and operating outside of the Liverpool CTR/Liverpool CTA but within the area defined in EGGP AD 2.22 FLIGHT PROCEDURES.
London City/ London Heathrow	* 0012	This code may be used when flying in the vicinity of London City and London Heathrow and operating outside of the London CTR/London City CTR/London CTA but within the area defined in EGLC AD 2.22 FLIGHT PROCEDURES and EGLL AD 2.22 FLIGHT PROCEDURES.
London Gatwick	* 7012	This code may be used when flying in the vicinity of London Gatwick and operating outside of the London Gatwick CTR/London Gatwick CTA but within the area defined in EGKK AD 2.22 FLIGHT PROCEDURES.
London Luton CTR/ CTA	* 0013	This code may be used when flying in the vicinity of London Luton and operating outside of the London Luton CTR/ London Luton CTA but within the area defined in EGGW AD 2.22 FLIGHT PROCEDURES.
London Stansted	* 7013	This code may be used when flying in the vicinity of Stansted and operating outside of the Stansted CTR/Stansted CTA but within the area defined in EGSS AD 2.22 FLIGHT PROCEDURES.
Manchester	* 7366 (7367 for students flying solo)	This code may be used when flying in the vicinity of Manchester and operating outside of the Manchester CTR/Manchester CTA but within the area defined in EGCC AD 2.22 FLIGHT PROCEDURES.
Newcastle Airport	* 3737	This code may be used when flying in the vicinity of Newcastle Airport and operating outside of the Newcastle CTR/ Newcastle CTA but within the area defined in EGNT AD 2.22 FLIGHT PROCEDURES.
Norwich Airport	* 7350	This code may be used when flying in the vicinity of Norwich Airport, operating outside of Norwich CTR/Norwich CTA and monitoring Norwich Radar Frequency 119.355 MHz. Refer to EGSH AD 2.22 FLIGHT PROCEDURES for further details.
Oxford Airport	* 4517	This code may be used when flying in the vicinity of Oxford Airport and operating outside of the Brize Norton CTR but within the area defined in EGTK AD 2.22 FLIGHT PROCEDURES.
Southampton	* 7011	This code may be used when flying in the vicinity of Southampton and operating outside of the Southampton CTR/Solent CTA but within the area defined in EGHI AD 2.22 FLIGHT PROCEDURES.
Southend	* 5050	This code may be used when flying in the vicinity of Southend and operating outside of the Southend CTR/Southend CTA but within the area defined in EGMC AD 2.22 FLIGHT PROCEDURES.
Teesside	* 7047	This code may be used when flying in the vicinity of Teesside Aerodrome, and operating outside of controlled airspace, but within the area defined in EGNV AD 2.22 FLIGHT PROCEDURES.
Warton Aerodrome	* 3660	This code may be used when flying in the vicinity of Warton Aerodrome, and operating outside of controlled airspace, but within the area defined in EGNO AD 2.22 FLIGHT PROCEDURES.

2.3 Mode S Aircraft Identification

2.3.1 To comply with ICAO airborne equipment requirements, all Mode S transponder equipped aircraft engaged in international civil aviation must incorporate an Aircraft Identification Feature (sometimes referred to as Flight Identity or Flight ID). Correct setting of Aircraft Identification is essential for the correlation of radar tracks with flight plan data in Air Traffic Management (ATM) and Airport Operator ground systems. Data analysed by the Eurocontrol AMP has shown that many Mode S compliant aircraft are transmitting

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

an incorrect Aircraft Identification, for example, incorrectly setting ABC_123 instead of ABC123.

2.3.2 **Incorrect Aircraft Identification settings compromise the safety and ATM benefits of Mode S and will prohibit automatic flight plan correlation, which could affect subsequent ATC clearances and sequencing.**

2.3.3 In accordance with ICAO Doc 8168 (PANS-OPS) Vol I, Part III, Section 4, Chapter 1, paragraph 1.3, flight crew of aircraft equipped with Mode S having an Aircraft Identification Feature shall set the Aircraft Identification in the transponder. This setting shall correspond to the Aircraft Identification specified in item 7 of the ICAO flight plan, or if no flight plan has been filed, the aircraft registration or as detailed in paragraph 2.3.4.1.

2.3.4 Aircraft Identification, not exceeding 7 alphanumeric characters, is to be entered in item 7 of the flight plan and set in the aircraft as follows:

2.3.4.1 Either,

a) The ICAO three letter designator (not the IATA two letter designator) for the aircraft operating agency followed by the flight identification, for example, BAW213 or JTR25, when:

   i. In radiotelephony, the callsign used consists of the ICAO telephony designator for the operating agency followed by the flight identification, for example, SPEEDBIRD 213 or HERBIE 25.

   Or,

b) The registration marking of the aircraft, for example, G-INFO or EIAKO, when:

   i. In radiotelephony, the callsign used comprises the registration marking alone, for example, G-INFO, or is preceded by the ICAO telephony designator for the operating agency, for example, SVENAIR EIAKO;
   ii. the aircraft is not equipped with radio.

   Or,

c) The callsign determined by the military authorities if this will be used to identify the aircraft in radiotelephony during flight.

Note 1: *When the Aircraft Identification consists of less than 7 characters, no zeros, dashes or spaces are to be added, either before or between the characters. Only alphanumeric characters are to be used. Nothing should be added after the final character of the registration. For example, an aircraft registered 'G-INFO' would be input as 'GINFO'.*

Note 2: *Appendix 2 to ICAO Doc 4444 (PANS-ATM) refers. ICAO designators and telephony designators for aircraft operating agencies are contained in ICAO Doc 8585.*

2.3.5 Flight crew of aircraft which have the capability to change the downlinked aircraft identification feature when airborne shall not change the downlinked aircraft identification feature during the flight unless requested by the air navigation service provider.

2.4 Transponder Failure

2.4.1 Failure before intended departure

2.4.1.1 If the transponder fails before intended departure and cannot be repaired pilots shall:

a) Plan to proceed as directly as possible to the nearest suitable aerodrome where repair can be made;
b) inform ATS as soon as possible preferably before the submission of a flight plan. When granting clearance to such aircraft, ATC will take into account the existing and anticipated traffic situation and may have to modify the time of departure, flight level or route of the intended flight;
c) insert in item 10 of the ICAO flight plan under SSR the letter N for complete unserviceability of the transponder or in the case of partial failure, the letter corresponding to the remaining transponder capability, including unserviceability of any Mode S functionality, as specified in ICAO Doc 4444, Appendix 2.

2.4.2 Failure after departure

2.4.2.1 If the transponder fails after departure or en-route, ATS Units will endeavour to provide for continuation of the flight in accordance with the original flight plan. In certain traffic situations this may not be possible particularly when the failure is detected shortly after take-off. The aircraft may then be required to return to the departure aerodrome or to land at another aerodrome acceptable to the operator and to ATC. After landing, pilots shall make every effort to have the transponder restored to normal operation. If the transponder cannot be repaired then the provisions in paragraph 2.4.1.1 apply.

2.4.3 At present the temporary failure of Mode C alone would not restrict the normal operation of the flight.

2.5 Radio Telephony Phraseology For Use With SSR.

This is in accordance with ICAO Doc 4444, Chapter 12, para 12.4.3.

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2.6 UK SSR Code Allocation Plan

(as detailed in the table at ENR 1.6-9 (See also notes below)).

Note 1: *Pilots are not to preselect Mode A code settings for discrete codes until instructed to do so by the appropriate controlling agency.*

Note 2: *The codes or series annotated * are used for conspicuity, co-ordination or special purposes and, unless procedures have been agreed with UK CAA Safety and Airspace Regulation Group, the Mode A code and associated Mode C pressure-altitude reporting data must be considered unvalidated and unverified.*

Note 3: *These codes are assigned by Aberdeen for helicopters operating in Northern North Sea Off-shore area and out to 5° West.*

Note 4: *Ground based transponder equipment.*

Note 5: *This code is allocated to Transit (ORCAM) UK and is temporarily assigned for use by London Control (Swanwick) FIS. Notwithstanding, it retains all the properties and protection of an ORCAM Transit code.*

Note 6: *These codes will be assigned to aircraft on air policing missions operating under Air Defence Priority Flight (ADPF) status. NATO Air Surveillance and Control System (ASACS) units, NATO Airborne Early Warning aircraft or military ATCCs will normally control the aircraft. The actual controlling unit for a particular flight will be notified by the relevant NATO ASACS unit to the military ATC supervisor whose area of responsibility contains the intended route of the ADPF aircraft. The military ATC supervisor will then inform the relevant civil ATCC. Where any doubt about the controlling agency exists, the relevant military ATC supervisor with the responsibility for the area within which the ADPF aircraft is operating should be contacted in the first instance.*

Note 7: *This code is assigned by the FISO to aircraft requesting entry into Controlled Airspace for the purpose of joining or crossing the ATS Route network. Pilots shall only select the code when they are within two-way communication with the London FIS. Where available, the Mode C pressure-altitude reporting mode of the transponder should also be selected. If communication is lost or the aircraft leaves the FIS frequency, pilots shall deselect this special purpose code. The assignment of this code does not imply the provision of a radar service and the code and any associated Mode C pressure-altitude reporting data must be considered to be unvalidated and unverified.*

Note 8: *All Spadeadam squawks indicating flight above FL 50 will be validated and verified by Spadeadam ATC.*

Note 9: *This conspicuity code shall be used by aircraft operating in an Off-shore Safety Area (OSA) when contact with the Area Air Traffic Service Provider (ATSP) has not been established and no other code has previously been allocated.*

Note 10: *These codes will be assigned to Unmanned Aeronautical Vehicles operating within an active danger area, which will be validated but may be unverified.*

Note 11: *Aircraft operating within, and in the vicinity of, EGD123, EGD124, EGD125, EGD126, EGD128.*

Note 12: *This conspicuity code shall be used by Unmanned Aerial Systems/Remotely Piloted Aircraft that have lost communications with their remote pilot and are following a pre-programmed Lost Link flight profile.*

Note 13: *This code may also be used for Blackpool Instrument Training.*

Note 14: *For use within a 20 NM radius of Land's End up to 4000 FT AMSL.*

Note 15: *Codes allocated to HQ Air Command are reserved for the purpose of major Operations or Exercises under HQ Air Command control including national events coordinated under HQ 11 Gp.*

Note 16: *Codes "On loan to CCAMS" may be reallocated to Special Events (e.g. Royal International Air Tattoo) providing at least two weeks' notice is submitted to SSRCodeAllocation@caa.co.uk.*

Note 17: *The use of the BVLOS UAS/RPA Code does not, in itself, constitute approval to operate Beyond Visual Line of Sight (BVLOS). Operators must ensure they obtain the necessary permissions and approvals from the relevant regulatory authorities prior to conducting any BVLOS operations. When the system is being provided a Flight Information Service or requires positive identification to enable control, a discrete SSR codes from the controlling unit is to be utilised.*

Codes / Series	Controlling Authority / Function
* 0000	SSR data unreliable
* 0001	Height Monitoring Unit **(See note 4)**
* 0002	Ground Transponder Testing **(Refer to ENR 1.6, paragraph 2.2.3)**
* 0003	Surrey/Sussex HEMS (HLE60)
0004 — 0005	Scottish Non-standard Flights
* 0006	British Transport Police ASU
* 0007	Off-shore Safety Area (OSA) Conspicuity **(See note 9)**
* 0010	This code may be used when flying in the vicinity of Birmingham, operating outside of Birmingham CTR/ Birmingham CTA and monitoring Birmingham Radar frequency **(Refer to ENR 1.6, paragraph 2.2.5)**
* 0011	Aircraft operating in the vicinity of Bournemouth Control Zone and monitoring Bournemouth Radar Frequency West **(Refer to ENR 1.6, paragraph 2.2.5)**
* 0012	This code may be used when flying in the vicinity of London City and London Heathrow and monitoring Thames Director frequency **(Refer to ENR 1.6, paragraph 2.2.5)**

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
* 0013	This code may be used when flying in the vicinity of London Luton and monitoring Luton Radar frequency **(Refer to ENR 1.6, paragraph 2.2.5)**
* 0014	Kent Air Ambulance (HLE21)
* 0015	Essex Air Ambulance (HLE07)
* 0016	Thames Valley Air Ambulance (HLE24)
* 0017	London Air Ambulance (HLE27)
* 0020	Air Ambulance Helicopter Emergency Medivac
* 0021	Fixed-wing aircraft (Receiving service from a ship)
* 0022	Helicopter(s) (Receiving service from a ship)
* 0023	Aircraft engaged in actual SAR Operations
* 0024	Radar Flight Evaluation/Calibration **(Refer to ENR 1.6, paragraph 2.2.2.2)**
0025	Scottish Non-standard Flights
* 0026	Special Tasks
* 0027	London Control (Swanwick) Ops Crossing/Joining CAS **(See note 7)**
* 0030	FIR Lost
* 0031	Hertfordshire Air Ambulance (HLE55)
* 0032	Aircraft engaged in police air support operations
* 0033	Aircraft Paradropping **(Refer to ENR 1.6, paragraph 2.2.2.2)**
* 0034	Antenna trailing/target towing/glider towing
* 0035	Selected Flights - Helicopters
* 0036	Helicopter Pipeline/Powerline Inspection Flights
* 0037	Royal Flights - Helicopters
* 0040	Civil Helicopters North Sea
* 0041 — 0061	Police Air Support
* 0062 — 0076	Battlespace Management Force HQ
* 0077	UAS/RPA Operating Beyond Visual Line of Sight Conspicuity **(See note 17)**
* 0100	HQ Air Command **(See note 15)**
0101 — 0117	Transit (ORCAM) Brussels
0120 — 0137	Transit (ORCAM) Germany
0140 — 0177	Transit (ORCAM) Amsterdam
* 0200	HQ Air Command **(See note 15)**
0201 — 0277	Allocated to NATS as CCAMS redundancy
* 0300	HQ Air Command **(See note 15)**
0301 — 0377	Assigned by CCAMS
* 0400	HQ Air Command **(See note 15)**
* 0401	RAF Leeming Conspicuity
0401 — 0417	Birmingham Radar
0401 — 0437	Ireland Domestic
0401 — 0450	Exeter Approach
0401 — 0461	RAF Lakenheath
0402 — 0437	RAF Leeming
* 0420	Coventry Conspicuity
0421 — 0427	Farnborough Zone/Approach Radar IFR/SVFR
* 0430	Hawarden Airport Conspicuity Code
0430 — 0437	Edinburgh Approach
0430 — 0456	Farnborough LARS West
0431 — 0446	Hawarden Approach
* 0440	This code may be used when flying in the vicinity of Edinburgh, operating outside of Edinburgh CTR/ Edinburgh CTA and monitoring Edinburgh Radar frequency **(Refer to ENR 1.6, para 2.2.5)**
0441 — 0443	Edinburgh Approach

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
* 0450	Blackpool Basic Service Conspicuity
* 0451	Blackpool Procedural Service Conspicuity **(See note 13)**
* 0452	Morecambe Bay Helicopter Conspicuity
* 0453	Liverpool Bay Helicopter Conspicuity
0455	Ekofisk RMZ
* 0457	Farnborough LARS West VFR Conspicuity Code for periods when no discrete SSR code is available
0460 — 0467	Farnborough Zone VFR
* 0462 — 0467	USAFE autonomous use in EGD323 complex and Vale of York AIAA.
0470 — 0477	Allocated to NATS as CCAMS redundancy
* 0500	HQ Air Command **(See note 15)**
0501 — 0577	Assigned by CCAMS
* 0600	HQ Air Command **(See note 15)**
0601 — 0637	Transit (ORCAM) Germany
0640 — 0677	Transit (ORCAM) Paris
* 0700	HQ Air Command **(See note 15)**
0701 — 0727	Transit (ORCAM) Maastricht
0730 — 0767	Assigned by CCAMS
0770 — 0777	Transit (ORCAM) Maastricht

Codes / Series	Controlling Authority / Function
1000	IFR GAT flights operating in designated Mode S Airspace
1001 — 1067	Transit (ORCAM) Spain
1070 — 1077	Assigned by CCAMS
* 1100	HQ Air Command **(See note 15)**
1101 — 1137	Transit (ORCAM) Germany
1140 — 1176	Assigned by CCAMS
* 1177	London Control (Swanwick) FIS **(Refer to ENR 1.6, paragraph 2.2.2.2 and note 5)**
* 1200	HQ Air Command **(See note 15)**
1201 — 1247	Channel Islands Domestic
1250 — 1257	Assigned by CCAMS
1260 — 1277	Queen Elizabeth Class aircraft carrier operations
* 1300	HQ Air Command **(See note 15)**
* 1301 — 1306	Assigned by CAA
1307 — 1327	NATO - Air Policing (Air Defence Priority Flights) **(See note 6)**
1330 — 1377	Transit (ORCAM) Germany
* 1400	HQ Air Command **(See note 15)**
1401 — 1407	Irish CCAMS Contingency Codes
1410 — 1477	Assigned by CCAMS
* 1500	HQ Air Command **(See note 15)**
* 1501 — 1577	Battlespace Management Force HQ

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
* 1600	HQ Air Command **(See note 15)**
* 1601 — 1677	Battlespace Management Force HQ
* 1700	HQ Air Command **(See note 15)**
* 1701 — 1727	Battlespace Management Force HQ
1730 — 1746	Newquay Approach
1730 — 1746	Farnborough LARS East
* 1730 — 1767	RAF Spadeadam **(See note 8)**
1730 — 1776	RAF Coningsby
* 1747	Farnborough LARS East Conspicuity
* 1747	Newquay Conspicuity
1750 — 1757	Farnborough Zone (IFR/SVFR)
1750 — 1756	Newquay Approach
* 1757	Newquay LARS when no discrete SSR code is available
1760 — 1777	RNAS Yeovilton Fighter Control
* 1777	RAF Coningsby Conspicuity

Codes / Series	Controlling Authority / Function
* 2000	Conspicuity when entering United Kingdom airspace from an adjacent region where the operation of transponders has not been required; or when operating within United Kingdom airspace in accordance with IFR and is either not receiving an ATS or has not received a specific instruction from ATS concerning the setting of the transponder; or unless instructed otherwise by ATS, Mode S transponder equipped aircraft on the aerodrome surface when under tow, or parked and prior to selecting Off or STBDY. **(Refer to ENR 1.6, paragraphs 2.2.1 e and 2.2.2.1.3)**
2001 — 2077	Assigned by CCAMS
* 2100	HQ Air Command **(See note 15)**
2101 — 2147	Transit (ORCAM) Amsterdam
2150 — 2177	Assigned by CCAMS
* 2200	HQ Air Command **(See note 15)**
2201 — 2277	Assigned by CCAMS
* 2300	HQ Air Command **(See note 15)**
2301 — 2377	Transit (ORCAM) France
* 2400	HQ Air Command **(See note 15)**
* 2401 — 2477	Battlespace Management Force HQ
* 2500	HQ Air Command **(See note 15)**
2501 — 2577	Transit (ORCAM) Germany
* 2600	HQ Air Command **(See note 15)**
2601 — 2617	Glasgow Approach
2601 — 2637	RAF Cranwell
2601 — 2645	MoD Boscombe Down
2601 — 2657	Irish Domestic Westbound departures and Eastbound arrivals
* 2620	This code may be used when flying in the vicinity of Glasgow, operating outside of Glasgow CTR/ Glasgow CTA and monitoring Glasgow Radar frequency **(Refer to ENR 1.6 para 2.2.5)**
2621 — 2630	Aberdeen (Sumburgh Approach)
2631 — 2637	Aberdeen (Northern North Sea Off-shore) **(See note 3)**
2640 — 2642	RAF Cranwell - Lincolnshire AIAA
2640 — 2657	Aberdeen (Northern North Sea Off-shore - Sumburgh Sector) **(See note 3)**

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
2643 — 2644	RAF Cranwell
* 2645	RAF Cranwell Conspicuity
2646 — 2647	RAF Cranwell
2646 — 2647	MoD Boscombe Down - UAS
* 2650	MoD Boscombe Down Conspicuity
2650 — 2653	Leeds Bradford Approach
2651 — 2657	MoD Boscombe Down
* 2654	Leeds Bradford Conspicuity
2655 — 2676	Leeds Bradford Approach
* 2660	Thruxton conspicuity
2660 — 2677	Aberdeen (Northern North Sea Off-shore) **(See note 3)**
2661 — 2675	Middle Wallop
* 2676	Middle Wallop Conspicuity
2677	Middle Wallop Conspicuity
* 2677	This code may be used when flying in the vicinity of Leeds Bradford and monitoring the Leeds Radar Frequency **(Refer to ENR 1.6, para 2.2.5)**
* 2700	HQ Air Command **(See note 15)**
2701 — 2737	Assigned by CCAMS
2740 — 2777	Transit (ORCAM) Zurich

Codes / Series	Controlling Authority / Function
3000	NATO Aircraft receiving a service from AEW aircraft
3001 — 3077	Transit (ORCAM) Zurich
3100	NATO Aircraft receiving a service from AEW aircraft
3101 — 3127	Transit (ORCAM) Germany
3130 — 3177	Transit (ORCAM) Amsterdam
3200	NATO Aircraft receiving a service from AEW aircraft
3201 — 3277	Transit (ORCAM) Turkey - may also be Assigned by CCAMS
3300	NATO Aircraft receiving a service from AEW aircraft
3301 — 3303	Swanwick (Military) Special Tasks
3304 — 3306	Aircraft receiving a service from London D&D Cell
* 3307	D&D Conspicuity Training Fix
3310 — 3367	Swanwick (Military)
3370 — 3377	Allocated to NATS as CCAMS redundancy
3400	NATO Aircraft receiving a service from AEW aircraft
3401 — 3477	Assigned by CCAMS
3500	NATO Aircraft receiving a service from AEW aircraft
3501 — 3507	Transit (ORCAM) Luxembourg
3510 — 3537	Assigned by CCAMS
3540 — 3577	Transit (ORCAM) Berlin
3600	NATO Aircraft receiving a service from AEW aircraft
3601 — 3623	RAF Benson
3601 — 3632	Scottish UK FIS Purposes
3601 — 3634	RAF Waddington

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
3601 — 3647	Jersey Approach
3601 — 3657	Cardiff Approach
* 3624	RAF Benson Conspicuity
3625 — 3627	RAF Benson
* 3636	This code may be used when flying in the vicinity of Cardiff, operating outside of Cardiff CTR/Cardiff CTA and monitoring Cardiff Approach frequency **(Refer to ENR 1.6, para 2.2.5)**
* 3637	Wycombe Air Park Conspicuity. Not to be used outside 20 NM from the airfield.
3640 — 3645	RAF Odiham
3640 — 3666	RAF Marham
3640 — 3677	Aberdeen (Northern North Sea Off-shore) **(See note 3)**
3641 — 3647	BAE Systems Warton
* 3646	RAF Odiham Conspicuity
3646 — 3657	Cardiff Approach
* 3647	RAF Odiham Visual Circuit/MATZ Conspicuity when in Contact with Odiham Tower
3650 — 3653	RAF Odiham
* 3650	BAE Systems Warton Conspicuity
3651 — 3657	BAE Systems Warton
* 3660	This code may be used when flying in the vicinity of Warton Aerodrome and monitoring Warton Radar frequency **(Refer to ENR 1.6, para 2.2.5)**
3660 — 3665	Solent Approach (Southampton)
3661 — 3677	BAE Systems Warton
* 3666	Solent Radar Conspicuity
* 3667	RAF Marham - FIS Conspicuity
3667 — 3677	Solent Approach (Southampton)
3700	NATO Aircraft receiving a service from AEW aircraft
3701 — 3706	Norwich Approach
3707	Norwich Basic Service
3710	Norwich Approach
* 3701 — 3717	Military aircraft under service from RN AEW aircraft in South West Approaches
3701 — 3736	RAF Brize Norton
3701 — 3727	Guernsey Approach
3701 — 3767	RAF Lossiemouth
3720 — 3725	RAF Valley
3720 — 3727	RAF Wittering Approach/Director
3720 — 3766	Newcastle Approach
3726	RAF Valley Basic Service
* 3727	This code may be used when flying in the vicinity of RAF Brize Norton, operating outside of Brize Norton CTR and monitoring Brize Norton LARS frequency (Refer to ENR 1.6, paragraph 2.2.5)
* 3727	RAF Valley
3730 — 3736	RAF Valley
3730 — 3747	RAF Wittering Tutor Operations
* 3737	RAF Valley - Visual Recovery
* 3737	RAF Brize Norton Approach Conspicuity
* 3737	This code may be used when flying in the vicinity of Newcastle, operating outside of Newcastle CTR and Newcastle CTA and monitoring Newcastle Radar frequency **(Refer to ENR 1.6, para 2.2.5)**
3740 — 3745	RAF Brize Norton
3740 — 3747	RAF Valley
* 3750	RAF Wittering Zone Conspicuity (Basic Service)
3750 — 3751	RAF Valley
3750 — 3761	TC Gatwick
3751 — 3757	RAF Wittering Zone Transits
3752	RAF Valley - RIFA
* 3753	RAF Valley - Low Level Helicopters
* 3754	RAF Valley - Special Tasks
3755 — 3756	RAF Valley
3757	RAF Valley Rotary at RAF Mona
3760	RAF Wittering

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
3760 — 3762	RAF Valley
3761	RAF Wittering – Cranwell/Wittering/Cranwell VFR Transit
* 3762	Shoreham ATS IFR
3762	RAF Wittering
* 3763	Shoreham ATS VFR
3763 — 3765	RAF Valley - Approach/Director
3764 — 3766	Gatwick Tower
3766 — 3767	RAF Valley
* 3767	Redhill Approach Conspicuity
* 3767	Newcastle Approach Conspicuity
3770 — 3777	Western Radar

Codes / Series	Controlling Authority / Function
4000	NATO Aircraft receiving a service from AEW aircraft
4001 — 4077	Transit (ORCAM) France
4100	NATO Aircraft receiving a service from AEW aircraft
4101 — 4177	Transit (ORCAM) Germany
4200	NATO Aircraft receiving a service from AEW aircraft
4201 — 4210	Western Radar
4211 — 4214	Assigned by CAA
4215 — 4247	Assigned by CCAMS
4250 — 4257	Belfast City Approach
4250 — 4267	Aberdeen Approach
4250 — 4277	Humberside Approach
* 4255	This code may be used when flying in the vicinity of Belfast/City, operating outside of Belfast/City CTR/ Belfast TMA and monitoring Belfast Approach frequency **(Refer to ENR 1.6, para 2.2.5)**
* 4270	This code may be used when flying in the vicinity of Aberdeen Airport and operating outside of the Aberdeen CTR/ Aberdeen CTA **(Refer to ENR 1.6, para 2.2.5)**
4300	NATO Aircraft receiving a service from AEW aircraft
4301 — 4305	Assigned by CAA
* 4306	Lee-on-Solent Conspicuity
4307 — 4317	London Control Non-Standard Flights
4320 — 4327	Ireland Domestic
4320 — 4327	RNAS Yeovilton
4330 — 4337	UK Domestic (Prestwick Centre Special Sector Codes)
4340 — 4353	UK Domestic (Scottish Special Sector Codes)
* 4354 — 4356	Westland Helicopters Yeovil
4357	Ireland Domestic
* 4357	RNAS Yeovilton Conspicuity
4360 — 4361	Oil Survey Helicopters - Faeroes/Iceland Gap
* 4360 — 4367	Westland Helicopters Yeovil
4360 — 4367	RAF Northolt
4370 — 4377	Anglia Radar
4370 — 4377	Ireland Domestic
4370 — 4377	RNAS Yeovilton
4400	NATO Aircraft receiving a service from AEW aircraft
4401 — 4427	Transit (ORCAM) Brussels
4430 — 4477	Assigned by CCAMS
4500	NATO Aircraft receiving a service from AEW aircraft

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
* 4501	Land's End GNSS Approach **(See note 14)**
* 4501	Wattisham Conspicuity
4501 — 4516	Oxford Approach
4501 — 4517	Prestwick Approach
4502 — 4547	Wattisham Approach
4506	RAF Topcliffe
* 4517	This code may be used when flying in the vicinity of Oxford Airport and monitoring Oxford Radar frequency **(Refer to ENR 1.6, para 2.2.5)**
* 4520	Prestwick Conspicuity
* 4520	Oxford Approach Basic Service
* 4521 — 4527	West Wales Radar (NQY)
* 4530	MoD Aberporth Conspicuity
* 4530	Gloucestershire Airport Instrument Approach Training
4530 — 4546	Plymouth (Military) Radar
4531 — 4537	MoD Aberporth
* 4531	Gloucestershire Airport Conspicuity only to be used within 25 NM and 10,000 FT of the airfield and monitoring the Gloucestershire Airport Frequency
* 4540 — 4542	MoD Aberporth **(See note 10)**
* 4540 — 4541	RAF Topcliffe Conspicuity Code
* 4543	West Wales Airport UAS Conspicuity Code. Shall only be selected with AFIS direction.
* 4547	Plymouth (Military) Radar conspicuity
4550 — 4567	Plymouth (Military) Radar
4550 — 4567	Isle of Man
4550 — 4570	East Midlands Radar
* 4571	East Midlands LARS Basic Service Conspicuity
* 4572	Aircraft operating outside of East Midlands Controlled Airspace/Zone and monitoring East Midlands Radar frequency **(Refer to ENR 1.6, paragraph 2.2.5)**
* 4572	Farnborough LARS West VFR Frequency Monitoring Code **(Refer to ENR 1.6, paragraph 2.2.5)**
* 4573	Costock Helicopters operating inside East Midlands CTR - Conspicuity
* 4574	Southdown Gliding Club Conspicuity
* 4575	Southend Airport Conspicuity
* 4575	Haverfordwest RNP Approach Conspicuity. Only to be used within 20 NM and 10,000 FT of the aerodrome
* 4576	Walney Aerodrome Conspicuity. Only to be used within 25 NM and 10,000 FT of the aerodrome and in communication with Walney ATS.
* 4576	RAF Honington
* 4577	Allocated by the CAA
4600	NATO Aircraft receiving a service from AEW aircraft
* 4601	MoD Ops in Salisbury Plain Training Area **(See note 11)**
4602 — 4607	Anglia Radar
* 4607	This code may be used when flying in the vicinity of Hawarden and monitoring the Hawarden Radar Frequency **(Refer to ENR 1.6 para 2.2.5)**
4610 — 4667	Assigned by CCAMS
4670 — 4676	TC Stansted/TC Luton
* 4677	Luton Airport Tower Conspicuity
4700	NATO Aircraft receiving a service from AEW aircraft
4701 — 4777	Assigned by CCAMS

Codes / Series	Controlling Authority / Function
5000	NATO Aircraft receiving a service from AEW aircraft
5001 — 5012	London Control Non-Standard Flights
5013 — 5017	Assigned by CCAMS
5020 — 5036	Farnborough LARS North
* 5037	Farnborough LARS North Conspicuity
5040 — 5047	Assigned by CAA
* 5050	Liverpool Conspicuity

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
* 5050	This code may be used when flying in the vicinity of Southend and monitoring Southend Radar Frequency **(Refer to ENR 1.6, para 2.2.5)**
5050 — 5067	Bristol Approach
5050 — 5067	Southend Approach
5051 — 5067	Liverpool Airport
* 5060 (or 5067 for students flying solo)	This code may be used when flying in the vicinity of Liverpool and monitoring the Liverpool Radar Frequency **(Refer to ENR 1.6, para 2.2.5)**
* 5070 — 5071	Bristol VFR Conspicuity
* 5070 — 5071	RAF Syerston Conspicuity
5072 — 5076	Bristol Approach
* 5077	This code may be used when flying in the vicinity of Bristol Airport, operating outside of Bristol CTR/ Bristol CTA and monitoring Bristol Radar frequency **(Refer to ENR 1.6, para 2.2.5)**
* 5077	Sherburn-in-Elmet and Leeds East RNP Approach Conspicuity. Only to be used within 20 NM and 10,000 FT of the aerodrome
* 5077	Cumbernauld RNP Approach Conspicuity. Only to be used within 20 NM and 10,000 FT of the aerodrome
5100	NATO Aircraft receiving a service from AEW aircraft
5101 — 5107	Assigned by CAA
5110 — 5137	NATS
5140 — 5177	Assigned by CCAMS
5200	NATO Aircraft receiving a service from AEW aircraft
5201 — 5270	Assigned by CCAMS
5271 — 5277	Transit (ORCAM) Channel Islands
5300	NATO Aircraft receiving a service from AEW aircraft
5301 — 5377	Transit (ORCAM) Barcelona
5400	NATO Aircraft receiving a service from AEW aircraft
5401 — 5477	Assigned by CCAMS
5500	NATO Aircraft receiving a service from AEW aircraft
5501 — 5577	Transit (ORCAM) Barcelona
5600	NATO Aircraft receiving a service from AEW aircraft
5601 — 5647	Transit (ORCAM) Paris
5650 — 5657	Transit (ORCAM) Luxembourg
5660 — 5664	Allocated to NATS as CCAMS redundancy
5665 — 5676	Assigned by CCAMS
5677	Medical emergency in France
5700	NATO Aircraft receiving a service from AEW aircraft
5701 — 5777	Transit (ORCAM) Geneva

Codes / Series	Controlling Authority / Function
* 6000	HQ Air Command (**See note 15**)
* 6001 — 6037	On loan to CCAMS **(See note 16)**
6040 — 6077	Swanwick (Military)
* 6100	HQ Air Command **(See note 15)**

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
6101 — 6157	Swanwick (Military)
6160 — 6175	Cambridge Approach
6160 — 6176	Inverness Radar
6160 — 6177	Plymouth (Military) Radar
6161 — 6167	Doncaster Sheffield (CAA Reserved)
6171 — 6177	Doncaster Sheffield (CAA Reserved)
* 6176	Cambridge VFR Conspicuity
* 6177	Cambridge IFR Conspicuity
* 6177	Inverness Conspicuity
* 6200	HQ Air Command **(See note 15)**
6201 — 6257	Assigned by CCAMS
6260 — 6277	Transit (ORCAM) Amsterdam
* 6300	HQ Air Command **(See note 15)**
6301 — 6377	Assigned by CCAMS
* 6400	HQ Air Command **(See note 15)**
6401 — 6457	Swanwick (Military) Radar
6460 — 6467	Assigned by CCAMS
6470 — 6477	Allocated to NATS as CCAMS redundancy
* 6500	HQ Air Command **(See note 15)**
6501 — 6577	CRC Boulmer
* 6600	HQ Air Command **(See note 15)**
6601 — 6677	Transit (ORCAM) Germany
* 6700	HQ Air Command **(See note 15)**
6701 — 6777	Transit (ORCAM) France

Codes / Series	Controlling Authority / Function
* 7000	Conspicuity when operating within United Kingdom airspace in accordance with VFR and have not received a specific instruction from ATS concerning the setting of the transponder**. (Refer to ENR 1.6, paragraph 2.2.2.1.3)**
* 7001	Military Fixed-wing Low Level Conspicuity/ Climb-out **(Refer to ENR 1.6, paragraph 2.2.2.2)**
* 7002	Danger Areas General
* 7003	Red Arrows Transit/Display
* 7004	Conspicuity Aerobatics and Display **(Refer to ENR 1.6, paragraph 2.2.2.2)**
* 7005	High-Energy Manoeuvres
* 7006	Autonomous Operations within TRA and TRA (G) **(Refer to ENR 1.6, paragraph 2.2.2.2)**
7007	Open Skies Observation Aircraft
* 7010	Operating in Aerodrome Traffic Pattern **(Refer to ENR 1.6, paragraph 2.2.2.2)**
* 7011	This code may be used when flying in the vicinity of Southampton Airport and monitoring Solent Radar frequency **(Refer to ENR 1.6, paragraph 2.2.5)**
* 7012	This code may be used when flying in the vicinity of London Gatwick and monitoring Gatwick Director frequency **(Refer to ENR 1.6, para 2.2.5)**
* 7013	This code may be used when flying in the vicinity of Stansted and monitoring Stansted Radar frequency **(Refer to ENR 1.6, para 2.2.5)**
7014 — 7017	Allocated to NATS as CCAMS redundancy
7020 — 7027	Assigned by CCAMS
* 7030	RNAS Culdrose Conspicuity
7030 — 7044	Aldergrove Approach

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
7030 — 7046	TC Thames/TC Heathrow
7030 — 7046	Teesside International Airport
7030 — 7077	Aberdeen (Northern North Sea Off-shore) **(See note 3)**
7031 — 7077	RNAS Culdrose
* 7045	This code may be used when flying in the vicinity of Belfast Aldergrove, operating outside of Belfast Aldergrove CTR/ Belfast TMA and monitoring Aldergrove Approach frequency **(Refer to ENR 1.6, para 2.2.5)**
7046 — 7047	Aldergrove Approach
* 7047	TC Thames (Biggin Hill Airport Conspicuity)
* 7047	This code may be used when flying in the vicinity of Teesside, operating outside of Teesside CTR and Teesside CTA and monitoring Teesside Radar frequency **(Refer to ENR 1.6, para 2.2.5)**
* 7047	RNAS Culdrose Conspicuity
7050 — 7056	TC Thames/TC Heathrow
7050 — 7066	Teesside International Airport
* 7057	TC Thames (London City Airport Conspicuity)
* 7066	Lydd Approach VFR
* 7067	Teesside International Airport Conspicuity
* 7067	Lydd Approach IFR
7070 — 7076	TC Thames/TC Heathrow
* 7077	TC Thames (London Heliport Conspicuity)
* 7100	SSR Code Saturation
7101 — 7167	Transit (ORCAM) Brussels
7170 — 7177	Transit (ORCAM) Luxembourg
* 7200	RN Ships Conspicuity
7201 — 7267	Allocated to NATS as CCAMS redundancy
7270 — 7277	Assigned by CCAMS
* 7300	MPA/DEFRA/Fishery Protection/AIRTASK146
* 7300	(Civil Contingency) Conspicuity
7301 — 7327	Assigned by CCAMS
7330 — 7347	Transit (ORCAM) Netherlands
* 7350	Norwich Frequency Monitoring Code - This code may be used when flying in the vicinity of Norwich, operating outside of Norwich CTR/Norwich CTA and monitoring Norwich Radar Frequency **(Refer to ENR 1.6, paragraph 2.2.5)**
7350 — 7353	RNAS Culdrose
7350 — 7361	MoD Ops in EGD701 (Hebrides)
7350 — 7363	Manchester Approach
7350 — 7376	Bournemouth Approach/LARS
7351 — 7377	Norwich Approach
* 7354 — *7355	RNAS Culdrose Conspicuity
* 7356	RNAS Culdrose Conspicuity Code utilised by Penzance Heliport iaw local orders
* 7357	RNAS Culdrose Conspicuity
7360 — 7367	RNAS Culdrose
* 7362	MoD Ops in EGD702 (Fort George)
* 7365	Manchester Barton Conspicuity
* 7366 (or 7367 for students flying solo)	This code may be used when flying in the vicinity of Manchester Airport and monitoring Manchester Radar frequency **(Refer to ENR 1.6, paragraph 2.2.5)**
7367 — 7373	Manchester Approach
* 7374	Dundee Airport IFR Procedural Approach
* 7375	Manchester TMA and Woodvale Local Area (Woodvale UAS and VGS Conspicuity)
* 7376	Dundee Airport VFR Conspicuity
* 7377	Bournemouth Radar Conspicuity
* 7400	UAS/RPA Lost Link **(See note 12)**

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Codes / Series	Controlling Authority / Function
* 7401	Scottish FIS **(Refer to ENR 1.6, paragraph 2.2.2.2)**
* 7402	RAF Leuchars Conspicuity
7402 — 7414	TC Stansted/TC Luton
7402 — 7417	RAF Shawbury
7402 — 7436	RNAS Yeovilton
7402 — 7437	Anglia Radar
7403 — 7427	RAF Leuchars
* 7417	Cranfield Airport - IFR Conspicuity Purposes
* 7420	RAF Shawbury Conspicuity
7421 — 7425	RAF Shawbury
* 7426	RAF Shawbury Conspicuity
* 7427	RAF Shawbury
7430 — 7437	RAF Shawbury
* 7437	RNAS Yeovilton Conspicuity
7440 — 7477	Transit (ORCAM) France
* 7500	Special Purpose Code - Hi-Jacking
7501 — 7507	Assigned by CCAMS
7510 — 7535	Transit (ORCAM) Switzerland
7536 — 7537	Assigned by CCAMS
7540 — 7547	Transit (ORCAM) Germany
7550 — 7567	Transit (ORCAM) Paris
7570 — 7577	Assigned by CCAMS
* 7600	Special Purpose Code - Radio Failure
* 7601	Special Purpose Code - European Radio Failure Procedure (Not Avaliable in UK FIR)
7602 — 7617	Allocated to NATS as CCAMS Redundancy (Prestwick Upper)
7620 — 7677	Assigned by CCAMS
* 7700	Special Purpose Code - Emergency
7701 — 7775	Assigned by CCAMS
* 7776 — 7777	SSR Monitors **(Refer to ENR 1.6, paragraph 2.2.4)**

2.7 Centralised Code Assignment and Management System (CCAMS)

2.7.1 The UK is part of the Centralised Code Assignment and Management System (CCAMS). CCAMS optimises the efficiency of European SSR code management by centrally selecting a SSR Mode A code for each flight based on its area of applicability and distributing it to the appropriate ATS unit. The Originating Region Code Assignment Method (ORCAM) will continue to be used by those nations which are not participating in CCAMS for international flights. For participating nations CCAMS will allocate ORCAM compatible codes.

2.7.2 To mitigate against the risk of CCAMS failure or in the event of a potential confliction with a CCAMS allocated code, states are allocated blocks of codes that can be used in place of CCAMS if necessary. In the UK, these blocks of codes are managed by NATS and are articulated in Section 2.6 as “Allocated to NATS as CCAMS redundancy”.

3 Automatic Dependent Surveillance - Broadcast (ADS-B)

3.1 Commission Regulation (EU) No. 1207/2011, as amended, requires aircraft with a maximum certified take-off mass exceeding 5,700 KG or having a maximum cruising true airspeed capability greater than 250 KT, operating as GAT under IFR, to be equipped with ADS-B version 2, typically pairing of a 1090 MHz Mode S “Extended Squitter” (ES) Level 2 transponder with an approved GNSS navigation source to provide the required data items as per Annex II Part B of that regulation. This applies to transport-type State aircraft (military, customs or police fixed-wing aircraft operated for the purpose of transporting persons and/or cargo) unless notified to the UK CAA.

3.2 Aircraft that are unable to transmit ADS-B for technical or operational reasons will be accommodated by UK ANSPs through conventional surveillance e.g. Mode S. See section GEN 1.5.3.

3.3 The UK’s preferred national system to improve electronic conspicuity for general aviation is ADS-B using 1090 MHz. It is also likely

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

that ADS-B will become more prevalent as a source of surveillance data for all aircraft types and to providers of ATS.

3.4 Extended Squitter devices using uncertified GPS sources may require the Surveillance Integrity Level to be set to zero.

4 Other Relevant Information and Procedures

4.1 Lower Airspace Radar Service (LARS)

4.1.1 **Availability of Service**

4.1.1.1 The service is available to all aircraft flying outside Controlled Airspace up to FL 100, within the limits of radar/radio cover. The service will be provided within approximately 30 NM of each participating ATS Unit. Unless a participating ATS Unit is H24, the service will normally be available between Winter 0800 and 1700, Summer 0700 and 1600, Mondays to Fridays. However, as some participating Units may remain open to serve evening, night or weekend flying, pilots are recommended to call for the service irrespective of the published hours of ATS. If no reply is received after three consecutive calls, it should be assumed that the service is not available.

4.1.1.2 LARS will not normally be available from non-H24 Units at weekends and during public holidays.

4.1.1.3 Pilots intending to operate at or above FL 100 may be advised to contact an appropriate ATCRU and request a Deconfliction Service or a Traffic Service. However, as VHF frequencies at Military ATCRUs are not continuously monitored, unless in use, civil pilots may ask controllers to arrange a frequency on which to call the appropriate Unit.

4.1.2 **Description of Service**

4.1.2.1 The service provided will be a Deconfliction Service or Traffic Service as detailed at ENR 1.1, subsection 2 (UK Flight Information Service).

4.1.3 **Procedures**

4.1.3.1 Pilots intending to use the Lower Airspace Radar Service should note the participating ATS Units close to their intended track and establish two-way RTF communication on the appropriate frequency using the phraseology: '. . . .(Participating ATS Unit), ...(Aircraft callsign), request (Basic/Traffic/Deconfliction Service)'. Pilots may be asked to 'stand-by'. When asked to pass your message, pilots should pass the following information:

a) Callsign and type of aircraft;
b) departure aerodrome;
c) destination aerodrome;
d) present position;
e) level;
f) additional details/intentions as necessary (next route point, squawk code).

4.1.3.2 Aircraft will be identified and pilots so informed before radar service is given.

4.1.3.3 Under a Deconfliction Service or Traffic Service, participating LARS aircraft will be given the service in accordance with ENR 1.1, subsection 2 (UK Flight Information Service).

4.1.3.4 Whenever possible, aircraft will be handed over from controller to controller in an area of overlapping radar cover and pilots told to 'Contact' the next Unit. When this cannot be effected, pilots will be informed of their position and advised which Unit to call for further service.

4.1.3.5 If a pilot wishes to enter regulated airspace, even though he may be in receipt of a LARS beforehand, he remains responsible for obtaining the required clearances before entry. LARS Controllers may assist in obtaining clearance, if workload permits, but pilots must be prepared to carry out this task independently.

4.1.4 **Terrain Clearance**

4.1.4.1 Terrain clearance will be the responsibility of pilots. However, LARS Units will set a level or levels below which a Deconfliction Service is to be refused or terminated.

4.1.5 **Advice to Pilots**

4.1.5.1 The provision of LARS is at the discretion of the controllers concerned because they may be fully engaged in their primary tasks. Therefore, occasionally, the service may not be available.

4.1.5.2 Boscombe Down Service Limitations

4.1.5.2.1 Limited Traffic Service - At and below FL 40. Subject to ATC workload, pilots will be informed of any limitations to Deconfliction

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Service and standard separation will be provided whenever possible.

4.1.5.3 Cardiff Radar Service Limitations

4.1.5.3.1 Due to limits of surveillance cover, a LARS may not be available below altitude 3000 FT. Pilots will be advised if LARS is not available and an alternative ATS may be offered.

4.1.5.4 Farnborough Service Limitations

4.1.5.4.1 Limited Traffic Service - At all altitudes/Flight Levels. Aircraft inbound to Farnborough should contact Farnborough Radar on 134.355 MHz. On weekdays (excluding PHs) LARS/MATZ service is not normally available on 125.250 MHz after 2000 HR (one hour earlier in summer). Traffic inbound to Odiham should contact Odiham Approach on 131.305.

4.1.5.4.2 Traffic Service is not available below altitude 1500 FT.

4.1.5.5 Warton Service Limitations

4.1.5.5.1 Warton PSR is suppressed in certain sectors to mitigate interference from ground clutter and wind turbines. Pilots will be advised of reduced service by Warton Radar.

4.1.6 **ATS Units Participating in the Lower Airspace Radar**

Unit	Position	Frequency (MHz)/ Channel	Service Radius (NM)	Availability/ Remarks
Boscombe Down	510912N 0014504W	126.705	30	Mon-Thu 0900-1700 (0800-1600), Fri 0900-1600 (0800-1500). Opening hours may vary subject to operational flying requirements.
Bournemouth	504648N 0015033W	119.480	30	0800-2000 (0700-1900).
Brize Norton	514500N 0013459W	124.280	40	0900-1700 (0800-1600).
Cardiff	512348N 0032036W	119.155	40	0600-2300 (0500-2200).
Coningsby	530535N 0000958W	119.205	30	Mon-Fri 0800-1700 (0700-1600).
Culdrose	500507N 0051515W	134.055	30	Mon-Thu 0830-1700 (0730-1600), Fri 0830-1400 (0730-1300).
East Midlands	524952N 0011940W	134.180	30	H24.
Exeter	504404N 0032450W	128.980	30	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).
Farnborough (West)	511633N 0004635W	125.250	See ENR 6-11	0800-2000 (0700-1900). See paragraph 4.1.7.
Farnborough (East)	511633N 0004635W	123.225		
Farnborough (North)	511633N 0004635W	132.800		
Humberside	533428N 0002103W	119.130	30	0630-2115 (0530-2015).
Leeming	541733N 0013207W	133.380	30	Mon-Thu 0800-1800 (0700-1700), Fri 0800-1700 (0700-1600).
Leuchars	562230N 0025132W	126.505	40	Mon-Fri 0900-1700 (0800-1600).
Lossiemouth	574224N 0032016W	119.575	40	Mon-Fri 0900-1700 (0800-1600).
Marham	523854N 0003302E	124.155	30	Mon-Thu 0800-2359 (0700-2300), Fri 0800-1800 (0700-1700).
Newcastle	550217N 0014123W	124.380	40	H24.
Newquay	502627N 0045943W	133.405	60	0730-2130 (0630-2030).
Norwich	524033N 0011658E	119.355	30	0630-2130 (0530-2030).
Plymouth Military (West)	501900N 0040700W	121.255	40	Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300).
Plymouth Military (East)	503405N 0022659W	124.150	40	The East and West LARS areas are divided at the western edge of Berry Head CTA 1, 3 & 5.
Shawbury	524737N 0024005W	133.155	40	Mon-Fri 0830-1700 (0730-1630).
Southend	513417N 0004144E	130.780	25	0900-1800 (0800-1700).
Teesside International	543033N 0012546W	118.855	40	0800-1800 (0700-1700).
Valley	531450N 0043201W	125.230	40	Mon-Thu 0800-1800 (0700-1700), Fri 0800-1700 (0700-1600).

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Unit	Position	Frequency (MHz)/ Channel	Service Radius (NM)	Availability/ Remarks
Waddington	530958N 0003126W	119.505	30	Mon-Thu 0800-2000 (0700-1900), Fri 0800-1800 (0700-1700), Sat & Sun 1000-1700 (0900-1600).
Warton	534442N 0025300W	129.530	40	Mon-Thu 0730-1900 (0630-1800), Fri 0730-1700 (0630-1600).
Yeovilton	510030N 0023844W	127.355	30	Mon-Thu 0830-1600; Fri 0830-1300.

4.1.7 **Farnborough LARS**

4.1.7.1 The co-ordinates of the Farnborough Radar Sectors are detailed below. The boundaries shown purely indicate the extent of the available service and DOES NOT infer that Farnborough LARS will be the controlling Authority for the crossing of either CAS or Military ATZs.

a) **LARS North**

520742N 0001825W - 520729N 0000708W - 520755N 0000723E - 520457N 0002608E - 520157N 0003808E - 515031N 0004700E – 514654N 0003118E – 513759N 0001801E – 513421N 0001707E – 513534N 0001246E – 513612N 0002639W - 513611N 0004133W - 514401N 0010541W thence clockwise by the arc of a circle radius 30 NM centred on 511631N 0004639W (Farnborough ARP) to 514550N 0005638W - 515411N 0004452W - 520742N 0001825W.

b) **LARS East**

511814N 0003550E - 505613N 0003110E - 504354N 0001455E - 504325N 0003247W - 504846N 0003247W - 510054N 0002700W - 511030N 0002352W thence clockwise by the arc of a circle radius 8 NM centred on 510853N 0001125W to 511118N 0002332W - 511242N 0001323W - 512013N 0001255W - 513611N 0001253W - 513534N 0001246E – 513421N 0001707E – 511833N 0002531E - 511814N 0003550E

c) **LARS West**

514401N 0010541W - 513611N 0004133W - 513612N 0002639W - 513611N 0001253W - 512013N 0001255W - 511242N 0001323W - 511118N 0002332W thence an arc radius 8 NM centred on 510853N 0001125W to 511030N 0002352W - 510054N 0002700W - 504846N 0003247W - 504325N 0003247W - 504313N 0004727W - 504957N 0010837W thence an arc 30 NM radius centred on 511631N 0004639W (Farnborough ARP) to 514401N 0010541W.

4.2 Radar Service - FL 100 and Above (Outside CAS)

4.2.1 **Availability of Service**

4.2.1.1 This service is available to all aircraft flying outside CAS in the London and Scottish FIRs between FL 100 and FL 190, and within active TRAs, subject to Unit capacity.

4.2.1.2 The military Units providing this service together with their boundaries are depicted on the chart at ENR 6-12. The table below shows their hours of operation, the RTF operating frequency on which this service is normally provided and a telephone number for pre-flight contact.

Unit and Callsign	Operating Hours	Initial Contact Frequency (ICF)	Telephone Number
78 Squadron Swanwick (Swanwick Mil)	H24 (Subject to 4.2.3)	North West Sector 134.300 MHz, North Sector 136.375 MHz, North East Sector 135.075 MHz, East Sector 133.325 MHz, Central Sector 128.700 MHz, West Sector (Northern) 127.450 MHz, West Sector (Southern) 133.900 MHz & South West Sector 135.150 MHz.	01489-612943 01489-612408 01489-612417
Western Radar	0645-1930 (0545-1830)	132.300 MHz	Admin: 01489-585511

4.2.1.3 Participating aircraft must be equipped with a serviceable transponder.

4.2.2 **Type of Service**

4.2.2.1 The service provided will be a Deconfliction Service or Traffic Service (See ENR 1.1.2).

4.2.3 **Availibility of Service**

4.2.3.1 Swanwick (Mil) will only provide an ATS 2300-0700 (2200-0600) Mon to Thu, and 2300-0700 (2200-0600) Fri to Mon subject to 2 weeks notification and associated approval. A request is to be sent to: SWK-Plans@mod.gov.uk and contain the details laid out

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in 4.2.4.1 (b). Swanwick (Mil) also have reduced staffing between the hours of 1800-2300 (1700-2200) Mon to Fri, provision of service will be prioritised in accordance with RAF Battlespace Management Orders.

4.2.4 **Procedures**

4.2.4.1 In order to comply with the requirements of the FPPS at 78 Squadron (Swanwick Mil), captains of aircraft requiring a radar service in the Upper or Lower Airspace within the Swanwick(Mil) area of responsibility are to pre-notify their intended flight details to Swanwick(Mil) by one of the following methods:

a) Pre-flight Notification - Flight Plans. As the preferred method of notification flight plans (F2919/CA48) should be submitted as far in advance of ETD as possible and in any case not less than 30 minutes before service is required. The Swanwick(Mil) signals address - EGZYOATT - must be included on the flight plan. When appropriate these additions to the standard flight plan format must also be included:

i. Item 18. The point and the time at which a radar service is required to commence;
ii. Item 15. The point of entry into the area and the point of exit.

Note: *Item 15. If a flight is planned to enter any CAS within the Swanwick(Mil) area of responsibility and a service is required before joining or after leaving CAS, both parts of the route may be entered in Item 15 of the same flight plan. In this case both IFPS - EGZYIFPS - and Swanwick(Mil) EGZYOATT must appear as addressees.*

b) Pre-Flight Notification - Military Prenote. When it has not been possible to file a flight plan, as sub-paragraph (a), relevant details of the intended flight should be telephoned by the pilot or by his aerodrome operations or ATC to Swanwick(Mil), Main Flight Plan Reception Section, (ATOTN Telephone Ext 6710) at least 15 minutes before service is required. Flight details should be passed in this order:

i. Callsign;
ii. number of aircraft (if more than 1) and aircraft type(s);
iii. position and time at which service is required to commence;
iv. speed and flight level at commencement of service;
v. route (including any required speed or level changes);
vi. position of leaving the delineated area (if applicable); and
vii. destination (ICAO Location Indicator).

c) In-Flight Notification (Air Filing). Exceptionally, when neither form of pre-flight notification has been made the flight details listed in sub-paragraph (b) above, may be notified in flight (Air Filed) by radio to:

i. ATCRU. Airfile with the ATCRU, currently providing a service for onward transmission by them to Swanwick(Mil) at least 15 minutes in advance of service being required;
ii. Swanwick(Mil). Request radar service by calling Swanwick(Mil) on the appropriate (ICF), at least 5 minutes before service is required passing the details listed in sub-paragraph (b) above.

d) In order to comply with the requirements of the FPPS for Western Radar, pilots and operators of aircraft leaving or joining Controlled Airspace within the Western Radar Area of Operation, who wish to receive an ATS from Western Radar are advised to file all flight plans (CA48) to both EUCHZMFP and EUCBZMFP not less than 30 minutes before the ATS is required.

The flight plan should include the following information:

i. Item 18. The point and time at which a UK FIS radar service will be required within the Western Radar Area of Operation.
ii. Item 15. The point of entry into and exit from the Western Radar Area of Operation.

Note: *An ATS is available to aircraft entering or leaving CAS within the Western Radar Area of Operation; therefore, to secure an ATS, Flight Plan Item 15 is to be fully completed.*

4.2.4.1.1 **Changes to Flight Details**

a) Pre-Flight Notification. Changes to pre-flight notifications are to be passed to Swanwick(Mil) as soon as possible by:

i. Amended flight plan if time permits (as in paragraph 4.2.3.1 (a)); otherwise
ii. by telephone (as in paragraph 4.2.3.1 (b)).

b) In-Flight Notification (Air Filing). By RTF as soon as possible (as in paragraph 4.2.3.1 (c)).

4.3 (Former) Pennine Radar Area of Responsibility

4.3.1 **Area of Responsibility**

4.3.1.1 Provision of ATS outside of controlled airspace within the area defined below is a NATS licensed task which is provided, subject

to unit workload, by Swanwick(Mil):

a) 550000N 0015420W - 550000N 004444W - 534153N 0002245E - 534134N 0010443W - 534007N 0011937W - 535348N 0013100W - 535955N 0014027W - 540236N 0014900W - 535557N 0020827W - 541113N 0021858W - 541201N 0021700W - 545127N 0023916W - 550000N 0015420W.
b) But excluding:

   i. Aerodrome Traffic Zones (ATZ);
   ii. Danger Areas;
   iii. Newcastle CTR/CTA;
   iv. Teesside International CTR/CTA

4.3.1.2 Vertical limits between FL 55 and FL 195. Deconfliction Service will not be provided below 4000 FT Regional Pressure Setting (RPS). Exceptionally, a Traffic Service may be provided below 4000 FT RPS, however, radar vectors will not be provided. (If there are high traffic levels in the Vale of York AIAA this may preclude standard separation from being maintained and a Traffic Service or a re-route may be offered).

4.3.1.3 Core operating hours are Mon-Fri 0700-2030 (Summer 1hr earlier). However, outside of these hours a service may still be provided H24 subject to unit capacity.

4.3.1.4 The area of responsibility is depicted on chart ENR 6-14.

4.3.1.5 Other ATSUs providing a radar service, within the Area of Responsibility, are:

a) Lower Airspace Radar Service (LARS) areas of Warton, Teesside International, Newcastle, Leeming and Humberside;
b) Anglia Radar Area of Responsibility (ENR 6-25).

4.3.2 **Flight Plan Requirements**

4.3.2.1 Pilots wishing to receive an ATS from Swanwick(Mil) within the Former Pennine Radar Area are to include within their Flight Plan the Swanwick(Mil) address EGZYOATT, in addition to any other IFPS address requirements. This requirement also applies to aircraft wishing to join or leave L602 at ERKIT routing in or outbound from EGNT or EGNV. Failure to address Flight Plans to Swanwick(Mil) may result in the refusal of service.

4.3.3 **Radio Communication**

4.3.3.1 Pilots receiving a service who wish to leave the frequency temporarily (for example to listen to VOLMET), and as a result will be unable to maintain two-way communication, must inform the controlling unit (ordinarily Swanwick(Mil)) of their intentions to leave the frequency and also of their return to it.

4.3.3.2 The Initial Contact Frequency for Swanwick(Mil) is 135.075 MHz.

4.3.3.3 If radio communication is lost, attempts should be made to establish contact with either Newcastle, Teesside International, London or Scottish Control as appropriate to the planned route.

4.3.3.4 If complete radio failure occurs, pilots should follow the standard radio failure procedure detailed at ENR 1.1, paragraph 3.4.

4.4 Western Radar Area of Operation

4.4.1 **Area of Operation**

4.4.1.1 Provision of ATS outside of controlled airspace within the area defined below is a NATS licensed task provided on a full-time basis by Swanwick(Mil) and by Western Radar depending on the time of day and the flight profile.

a) 492840N 0045516W - 493146N 0060840W - 510000N 0080000W - 522000N 0053000W - 524406N 0053000W - 525704N 0053000W - 524318N 0050508W - 525038N 0045358W - 531042N 0053000W - 531500N 0053000W - 532315N 0051017W - 532019N 0033502W - 531855N 0031650W - 530313N 0024434W - 521902N 0014707W - 513536N 0012124W - 511623N 0012049W - 510122N 0012720W - 504944N 0013439W - 495813N 0020959W - 495427N 0023012W - 492840N 0045516W.
b) But excluding:

   i. Danger Areas*;
   ii. North Wales MTA.

   Note: ** Western Radar may be able to obtain crossing clearance from the appropriate agency.*

4.4.2 Vertical limits between FL 100 and FL 195 (FL 245 within active TRAs). The service from Western Radar is intended for (although not exclusively restricted to) aircraft wishing to join or leave Controlled Airspace within the Area of Operation.

4.4.3 Western Radar core operating hours are daily 0645-1930 (0545-1830). Swanwick(Mil) will continue to provide an ATS on a full-

time basis subject to unit workload.

4.4.4 Other ATSU's providing a radar service, within the Area of Operation, are:

a) Lower Airspace Radar Service (LARS) areas of Boscombe Down, Bournemouth, Brize Norton, Cardiff, Culdrose, Exeter, Farnborough North/West, Newquay, Plymouth Military, Shawbury, Valley and Yeovilton;
b) Swanwick(Mil);
c) Solent Radar.

4.4.5 **Flight Plan Requirements**

4.4.5.1 Pilots wishing to receive an ATS from Western Radar are to include within their Flight Plan the Western Radar address EGTTZFZC in addition to any other IFPS address requirements. Failure to address Flight Plans to Western Radar may result in the refusal of service.

4.4.6 **Radio Communication**

4.4.6.1 Pilots receiving a service who wish to leave the frequency temporarily (for instance to listen to VOLMET), and as a result will be unable to maintain two-way communication, must inform the controlling authority of their intentions to leave the frequency and also of their return to it.

4.4.6.2 The primary frequency for Western Radar is 132.300 MHz.

4.4.6.3 If radio communication is lost, attempts should be made to establish contact with either Swanwick(Mil), Newquay, Exeter, Bournemouth, Brize Norton, London Control or Scottish Control as appropriate to the planned route.

4.4.6.4 If complete radio failure occurs, pilots should follow the standard radio failure procedure detailed at ENR 1.1, paragraph 3.4.

4.5 Off-Shore Operations

4.5.1 **Southern North Sea Low Level Air Traffic Services and Helicopter Operating Procedures**

4.5.1.1 **Introduction**

4.5.1.1.1 To enhance flight safety and expedite Search and Rescue in the Southern North Sea Airspace, a Deconfliction Service, Traffic Service, Basic Service and Alerting Service is available from the Air Traffic Service Unit (ATSU) at Aberdeen Airport (Anglia Radar). These services are available to helicopters operating in support to the off-shore oil, gas and renewable industries and to civil and military aircraft transiting the area at and below FL 65.

4.5.1.2 **Description**

Lateral Limits	Vertical Limits	Controlling Authority Callsign and frequencies Hours
Anglia Radar Area of Responsibility 550000N 0010000W - 550000N 0030301E - 543715N 0025349E - 542245N 0024543E - 535745N 0025155E - 534003N 0025719E - 533503N 0025913E - 532809N 0030055E - 531803N 0030319E - 525551N 0030936E - 523606N 0025307E - 523612N 0014423E then following the coastline to 525655N 0010856E to Strubby (531836N 0001034E) to Easington (533919N 0000706E) - 550000N 0010000W.	FL 65 _____ SFC	Anglia Radar (Aberdeen ATSU). 'Anglia Radar' Primary: 125.275 MHz Secondary: 128.925 MHz **Hours:** 0630-2200 daily Winter (Summer 1hr earlier).

4.5.1.3 The ATSU will provide, within its specified area of responsibility, Deconfliction Service or Traffic Service within the limits of surveillance cover. Outside surveillance cover or in the event of surveillance failure, a Basic Service and Alerting Service will be provided within the limits of VHF cover. These services will be provided to helicopter pilots routing:

a) To off-shore installations, until the time that the pilot is in contact with the destination rig/platform;
b) from off-shore installations, from the time two-way communications is established with the ATSU, until the time that the pilot is in contact with the destination landing pad or other agency.

Note: *Under the terms of a Memorandum of Understanding between NATS Limited and the off-shore helicopter companies, aircraft operated by these companies will be provided with modified Flight Information Services, which are prefixed by the term 'Off-shore', eg 'Off-shore Deconfliction Service'.*

4.5.1.4 **Airspace Structure**

4.5.1.4.1 **Helicopter Main Routing Indicators (HMRI)**

4.5.1.4.1.1 Helicopter Main Routing Indicators are indicators of routes typically and routinely flown by helicopters operating to and from off-shore destinations and are promulgated for the purpose of signposting concentrations of helicopter traffic to other airspace users.

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HMRI promulgation does not predicate the flow of helicopter traffic. Whilst HMRIs have no airspace status and assume the background airspace classification within which they lie (in the case of the Southern North Sea, Class G), they are used by the air navigation service provider (NATS Ltd/Anglia Radar) and helicopter operators for flight planning and management purposes.

4.5.1.4.1.2 HMRIs have no lateral dimensions. Vertically the HMRIs over the Southern North Sea extend from 1500 FT AMSL to FL 60 (inclusive) except that:

a) Anglia Radar will not normally allocate cruising levels above FL 40 in the Southern North Sea beneath EGD323D, EGD323E and EGD323K. Where helicopter icing conditions or other flight safety considerations dictate, helicopters may be forced to operate below 1500 FT AMSL.

4.5.1.4.1.3 Compliance with the HMRI structure is not compulsory. In the general interests of flight safety, however, civil helicopter pilots are strongly encouraged to plan their flights using HMRIs wherever possible.

4.5.1.4.1.4 Other traffic operating in proximity of these routes are advised to maintain an alert look out, especially in the Off-shore Safety Area.

4.5.1.4.2 The Southern North Sea HMRI Structure is as follows:

HMRI 1	SORER (524815N 0013445E) to Indefatigable '23A' (*531924N 0023428E);
HMRI 2	SORER (524815N 0013445E) to Windermere (*534954N 0024617E) **(Note 1)**;
HMRI 3	BAGPA (525338N 0012421E) to Munro (*542602N 0021755E) **(Note 1)**;
HMRI 4	BAGPA (525338N 0012421E) to Trent (*541755N 0013930E) **(Note 1)**;
HMRI 5	Waveney (*532109N 0011811E) to Leman '27A' (*530313N 0021358E);
HMRI 6	LAGER (533640N 0000849W) to Viking 'B' (*532648N 0021954E);
HMRI 7	LAGER (533640N 0000849W) to Hyde (*534828N 0010144E) **(Note 1)**;
HMRI 8	LAGER (533640N 0000849W) to Rough 'A' (*534928N 0002811E) to Ravenspurn North (*540150N 0010603E) to Munro (*542602N 0021755E) **(Note 1)**;
HMRI 9	Rough 'A' (*534928N 0002811E) to Cleeton 'PQ' (*540159N 0004336E) **(Note 1)**;
HMRI 10	Cleeton 'PQ' (*540159N 0004336E) to Hyde (*534828N 0010144E) **(Note 1)**;
HMRI 20	Lowestoft (522824N 0014519E) to Inner Gabbard (515450N 0015636E) to Galloper (514710N 0015729E) **(Note 2)**;
HMRI 435	IRDUK (533327N 0025937E) to Carrack (*533444N 0024727E);
HMRI 440	INDEV (531720N 0030331E) to Indefatigable '49/24N' (*531717N 0024316E);
HMRI 445	KUSON (531141N 0030508E) to Indefatigable '49/24N' (*531717N 0024316E);
HMRI 446	KOPAD (530746N 0030615E) to Hewitt '52/5A' (*525956N 0015045E);
HMRI 447	LUVOR (524823N 0030321E) to Hewitt '52/5A' (*525956N 0015045E);
HMRI 450	LUVOR (524823N 0030321E) to RIKPU (524235N 0014227E).

Note 1: *The maximum cruising level beneath EGD323D, EGD323E and EGD323K is restricted to FL 40 unless cleared by Anglia Radar.*
Note 2: *HMRI 20 lies outside the Anglia Area of Responsibility and extends vertically from 500 FT AMSL to 2000 FT AMSL inclusive. There are no ATS service provision arrangements to support operations on this HMRI.*

4.5.1.4.3 **Off-shore Safety Areas (OSAs).** The Anglia OSA consists of the Airspace from surface to 3500 FT ALT within the area bounded by straight lines joining in succession:

533544N 0015732E - 533328N 0021621E - 532200N 0023900E - 531143N 0025505E - 523612N 0014423E then following the coastline to 525242N 0012618E - 532132N 0013545E - 532838N 0014150E - 533544N 0015732E.

4.5.1.4.4 **Helicopter Traffic Zones (HTZ).** HTZs are established as notification of helicopters engaged in platform approaches, departures and extensive unco-ordinated inter-platform transit flying. Inter-platform flying by civil helicopters within HTZs contained within the OSA will be conducted on the company or field discrete frequency. HTZs consist of the airspace from sea level to 2000 FT ALT contained within tangential lines, not exceeding 5 NM in length, joining the neighbouring circumferences of circles 1.5 NM radius around each individual platform helideck.

4.5.1.4.4.1 The position of individual platforms, together with their maximum height AMSL and helideck height AMSL, within their parent field complex are detailed at paragraph 5.2.

4.5.1.5 **Operating Procedures**

4.5.1.5.1 **General**

4.5.1.5.1.1 **Helicopter Procedures.** Helicopter pilots wishing to use this service must establish two way RTF communication with the ATSU. For flights within the same or adjacent field complex, helicopter pilots should remain on the field frequency. Pilots should advise ATC before changing frequency and/or altitude.

4.5.1.5.1.2 **Fixed-Wing Procedures.** Pilots of civil and military fixed-wing aircraft intending to fly within the area of responsibility of Anglia Radar are strongly advised to make use of the services provided. Crews of wildlife and aerial survey aircraft should consider utilising notification procedures detailed at ENR 1.1.4 as well as contacting Aberdeen ATSU prior to commencing operations. Whenever possible civil aircraft should be flown above the Transition Altitude at the appropriate level. Pilots are also advised that

the helicopters on inter-platform flights in the same field complex normally operate at 500 FT AMSL and frequently carry underslung loads which limit the pilot's ability to take sudden avoiding action.

4.5.1.5.2 **Position Reporting; ATC Reports**

4.5.1.5.2.1 Position reports on initial contact will include the following information:

a) Callsign;
b) Type;
c) Point of departure;
d) Point of next landing;
e) Altitude/requested Altitude;
f) Total number of people on board.

4.5.1.5.2.2 Subsequent position reports if requested by the ATSU will include the following abbreviated information:

a) Callsign;
b) Position;
c) Altitude.

4.5.1.5.2.3 Helicopter pilots will, prior to leaving a frequency, inform the ATSU of the next off-shore sector to be flown.

4.5.1.5.3 **Off-shore Safety Area (OSA)**

4.5.1.5.3.1 Pilots of helicopters entering the Anglia OSA should contact Anglia Radar.

4.5.1.5.3.2 **Fixed-Wing Procedures.** Military and civil pilots of fixed-wing aircraft are recommended to avoid the Anglia OSA, however, if penetration is essential, contact should be made with Anglia Radar no later than 10 NM before entering the area giving their position, altitude, squawk, heading and intentions. When unable to maintain contact with Anglia Radar, and where not previously allocated a squawk by Anglia Radar, pilots should squawk A0007 with ALT (or mode C) selected. Maritime patrol aircraft (MPA) and fisheries protection aircraft should squawk A7300 with ALT (or mode C) selected.

4.5.1.5.4 **Cruising Altitudes**

4.5.1.5.4.1 Helicopters will normally plan to fly at the following en-route altitudes:

a) Outbound (land to sea) 2000 FT and 3000 FT AMSL;
b) Inbound (sea to land) 1500 FT and 2500 FT AMSL;
c) Inter-field:

i. Northbound (270° to 089° MAG track) 1000 FT, 2000 FT and 3000 FT AMSL;
ii. Southbound (090° to 269° MAG track) 500 FT, 1500 FT and 2500 FT AMSL.

Above the Transition Altitude (3000 FT AMSL) all aircraft should conform to the Semicircular Rule.

4.5.1.5.5 **Altimeter Setting Procedures**

4.5.1.5.5.1 En-route altitudes of 3000 FT AMSL and below will be flown with reference to the appropriate Regional Pressure Setting (RPS). Anglia Radar will give the appropriate pressure setting on first contact. Helicopters operating in this area crossing from one Altimeter Setting Region (ASR) to another, and when in contact with Anglia Radar will not change the RPS datum until instructed to do so. This procedure is to enable the Controller to plan and control vertical separation in the vicinity of an ASR boundary and beneath EGD323D, EGD323E, EGD323K and the Lakenheath ATA North.

Note: *When instructed by Anglia Radar to squawk the allocated code, helicopter pilots are requested to state their level to the nearest hundred feet in order that the Mode C transponder information can be verified.*

4.5.1.5.6 **Use of GPS for North Sea Operations**

4.5.1.5.6.1 UK AOC Holders intending to use GPS for en-route navigation for North Sea flight operations are to use GPS equipment that meets or exceeds CAA Specification 22. AOC holders requiring further information should contact their assigned flight operations Inspector. Non UK AOC holders are recommended to operate to at least the Specification 22 standard.

4.5.1.6 **Out of Hours Helicopter Operations**

4.5.1.6.1 Helicopter off-shore support activity is not confined to published ATS hours and helicopters may be operating in VMC or IMC at all levels and times.

4.5.2 **Northern North Sea and Atlantic Rim Low Level Air Traffic Services and Helicopter Operating Procedures**

4.5.2.1 To enhance flight safety and expedite Search and Rescue in the Northern North Sea Airspace, including Atlantic Rim Airspace and the East Shetland Basin, a Deconfliction Service, Traffic Service, Basic Service and Alerting Service is available from the Air

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Traffic Service Unit (ATSU) at Aberdeen Airport. These services are available to helicopters operating in support to the off-shore oil, gas and renewable industries and to civil and military aircraft transiting the area at and below FL 100.

4.5.2.2 **Description.** Within the areas of responsibility specified below, a Deconfliction Service or Traffic Service within the limits of surveillance cover and, outside surveillance cover or in the event of surveillance failure, a Basic Service and Alerting Service within the limits of VHF cover will be provided. Outside the hours of service notified above, a Basic Service and Alerting Service is available within the limits of VHF RTF cover from the FIR Sector at Scottish ACC, callsign 'Scottish Information' on 129.225 MHz. The above services will be provided to helicopter pilots routing:

a) To off-shore installations until two-way communication is established with their destination; and
b) from off-shore installations from the time two-way communication is established with the appropriate Sector.

Lateral Limits (A chart depicting the sectors is at ENR 6-23)	Vertical Limits	Controlling Authorities Callsign and frequencies Hours
Sumburgh Radar Sector — Cormorant QNH Area This area of responsibility is enclosed by straight lines joining in succession the following points: 602856N 0004429W - 610000N 0002000W - 610000N 0000000E - 605109N 0000000E thence clockwise by the arc of a circle radius 70 NM centred on 595243N 0011712W (SUM VOR) to 600453N 0010000E – 600000N 0010000E - 600000N 0000059E thence anti-clockwise by the arc of a circle radius 40 NM centred on 595243N 0011712W (SUM VOR) to 602856N 0004429W.	FL 85 SL	Sumburgh Radar (Aberdeen ATSU) 'Sumburgh Radar' – 131.300 MHz and 124.900 MHz (west of meridian 3 degrees West) **Hours:** (all Sumburgh Areas) 0630-2200 (0530-2100)
Sumburgh Radar Sector — Shetland QNH Area This area of responsibility is enclosed by straight lines joining in succession the following points: 602856N 0004429W thence anti-clockwise by the arc of a circle radius 40 NM centred on 595243N 0011712W (SUM VOR) to 593000N 0022203W - 593000N 0050000W - 610000N 0050000W - 610000N 0002000W - 602856N 0004429W.	FL 85 SL	
Sumburgh Radar Sector—Sumburgh QNH Area This area of responsibility, excluding the portion of the MORAY CTA contained within the area, is enclosed by straight lines joining in succession the following points: 600000N 0000059E thence anti-clockwise by the arc of a circle radius 40 NM centred on 595243N 0011712W (SUM VOR) to 593000N 0022203W - 590000N 0021602W – 590000N 0000319W - 594421N 0010000E – 600000N 0010000E - 600000N 0000059E.	FL 85 SL	
Sumburgh Radar Sector—Aberdeen QNH Area This area of responsibility, excluding the portion of the MORAY CTA contained within the area, is enclosed by straight lines joining in succession the following points: 590000N 0021602W - 590000N 0000319W – 583242N 0004037W – thence anti-clockwise by the arc of a circle radius 90 NM centred on 571838N 0021602W (ADN VOR) to 584825N 0021817W - 590000N 0021602W.	FL 85 SL	
Sumburgh Radar Sector — North Sea Area IV **(Delegated ATS, see ENR 2-2-1-1)** This area of responsibility is enclosed by straight lines joining in succession the following points: 610000N 0000000E - 610000N 0040000W - 630000N 0012637W - 630000N 0000000E - 610000N 0000000E.	FL 85 SL	
Aberdeen Sectors The area of responsibility, excluding the portion of the MORAY CTA and the Aberdeen CTR/CTA contained within the area, is enclosed by straight lines joining in succession the following points: 584825N 0021817W - 582000N 0024600W - 580946N 0031432W thence anti-clockwise by the arc of a circle radius 5 NM centred on 580539N 0030912W (Beatrice C) to 580313N 0031725W - 572100N 0023356W - 571838N 0021602W (ADN VOR) - 560000N 0013000W - 560000N 0000000E - 560510N 0031455E - 563540N 0023642E - 573628N 0020654E - 575416N 0015748E - 582546N 0012854E - 591722N 0014236E - 595346N 0020430E - 600000N 0020320E - 600000N 0010000E - 594421N 0010000E - 583242N 0004037W - thence anti-clockwise by the arc of a circle radius 90 NM centred on 571838N 0021602W (ADN VOR) to 584825N 0021817W.	FL 85 SL	Aberdeen ATSU. 'Aberdeen Radar' 134.100 MHz – within the defined sector, out to ADN 90 DME from the northwestern boundary to the 038 HMRI, and then out to ADN 80 DME clockwise from the 038 HMRI. 135.175 MHz - on and north of 065 HMRI 132.550 MHz - south of 065 HMRI within the Aberdeen sector outwith the areas described above. **Hours:** 0630-2200 (0530-2100).

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Lateral Limits (A chart depicting the sectors is at ENR 6-23)	Vertical Limits	Controlling Authorities Callsign and frequencies Hours
Brent Radar Sector Area enclosed by straight lines joining in succession the following points: 605109N 0000000E - 620000N 0000000E - 620000N 0012222E - 612122N 0014718E (ALLOY) - 600000N 0020320E - 600000N 0010000E - 600453N 0010000E - thence anti-clockwise by the arc of a circle radius 70 NM centred on 595243N 0011712W (SUM VOR) to 605109N 0000000E.	FL 85 ——— SL	Aberdeen ATSU. 'Brent Radar' - 122.250 MHz is the primary ATC frequency. **Hours:** Mon-Fri 0630-2200 (0530-2100), Sat & Sun 0700-2100 (0600-2000).
East Shetland Basin (ESB) To co-ordinate the inter-platform and transit helicopter traffic within the ESB, an ATS is established in the area which will provide Flight Information Services. Pilots intending to overfly the ESB below FL 85 are strongly recommended to contact Brent Radar before penetrating the Airspace.		
Area enclosed by arcs of circles joining in succession the following points: 614410N 0003900E - 612412N 0003900E (Gate Golf) - 610807N 0004319E (Gate Hotel) - 605828N 0004555E (Gate Juliet) - 604846N 0010430E (Gate Lima) - 604116N 0011454E (Gate Mike) - 603808N 0012042E (Gate November) - 603300N 0014257E (Gate Oscar) - 603300N 0015659E - 612122N 0014718E (ALLOY) - 614410N 0013329E - 614410N 0003900E.	FL 85 ——— SL	Aberdeen ATSU. 'Brent Radar' - 122.250 MHz is the primary ATC frequency. **Hours:** 0630-2200 Mon-Fri, 0700-2100 Sat & Sun, Winter (Summer 1hr earlier).

4.5.2.3 **Helicopter Main Routing Indicators (HMRI) - En-Route Structure**

4.5.2.3.1 Helicopter Main Routing Indicators are indicators of routes typically and routinely flown by helicopters operating to and from off-shore destinations and are promulgated for the purpose of signposting concentrations of helicopter traffic to other airspace users. HMRI promulgation does not predicate the flow of helicopter traffic. Whilst HMRIs have no airspace status and assume the back-ground airspace classification within which they lie (in the case of the Northern North Sea, Class G), they are used by the air navigation service provider (NATS Ltd/ Aberdeen) and helicopter operators for flight planning and management purposes.

4.5.2.3.2 HMRIs have no lateral dimensions. Vertically the HMRIs over the Northern North Sea (55°N to 62°N) extend from 1500 FT AMSL to FL 85 (inclusive), except that:

Where helicopter icing conditions or other flight safety considerations dictate, helicopters may be forced to operate below 1500 FT AMSL.

4.5.2.3.3 Compliance with the HMRI structure is not compulsory. In the general interests of flight safety, however, civil helicopter pilots are strongly encouraged to plan their flights using HMRIs wherever possible.

4.5.2.3.4 Other traffic operating in proximity of these routes are advised to maintain an alert look out, especially in the Off-shore Safety Area (OSA).

4.5.2.3.5 **Off-shore Safety Areas (OSAs).** The Aberdeen OSA consists of the Airspace from surface to FL 100 within the area bounded by straight lines joining in succession:

590000N 0013755E following the North Sea Median Line (eastern limit of published Aberdeen Sector) to 560510N 0031455E - 560441N 0024328E - 571227N 0015238W then anti-clockwise around eastern boundary of the Aberdeen CTR/CTZ to HACKLEY HD (571948N 0015717W) then following the coastline anti-clockwise to 574044N 0015652W - 590000N 0013930W - 590000N 0013755E.

4.5.2.3.6 The HMRI track structure between Sumburgh and the East Shetland Basin is as follows:

a) HMRI 'Golf' (eastbound) - from 40 DME SUM on HMRI 'Hotel' direct to Gate 'Golf';
b) HMRI 'Hotel' (eastbound) - from Gate 'Hotel' parallel to HMRI 'Juliet' to 40 DME SUM thence to Sumburgh VOR;
c) HMRI 'Juliet' (westbound) - from Gate 'Juliet' direct track to Sumburgh VOR;
d) HMRI 'Lima' (eastbound) - from Sumburgh VOR direct to Gate 'Lima';
e) HMRI 'Mike' (westbound) - from Gate 'Mike' parallel to HMRI 'Lima' to 40 DME SUM thence to Sumburgh VOR.

4.5.2.3.7 **Aberdeen** based pilots use HMRIs, a track system centred on 571838N 0021602W (ADN VOR). The system is keyed to the outbound master HMRI 029 commencing at 575506N 0014423W and terminating at Gate 'Lima' (604846N 0010430E) on the ESB boundary. The other HMRIs, spaced at 3 degree intervals, are designated alternately 'inbound' or 'outbound' and are identified by three figures. They terminate at either the appropriate Gate on the ESB boundary or the Median Line. The table below shows co-ordinates for the Gates and the points at which the HMRIs intercept the Median Line. When operating to or from permanent off-shore installations or mobile vessels, pilots normally plan along the nearest HMRI. In the Aberdeen area, HMRIs 023 to 086 (inclusive) are joined to two parallel bi-directional 'feeder/funnel' HMRIs, HMRIs Whiskey and Echo. The direction of use of HMRIs Whiskey and Echo is dependent upon the runway in use at Aberdeen. VANOR (571408N 0020304W) and NOBAL (571518N 0020336W) are used as reporting points within the Aberdeen CTR.

HMRI 023	612412N 0003900E (G Gate)	HMRI 074	580248N 0015004E
HMRI 026	605828N 0004555E (J Gate)	HMRI 077	575606N 0015608E

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HMRI 029	604846N 0010430E (L Gate)	HMRI 080	574904N 0020028E
HMRI 032	603808N 0012042E (N Gate)	HMRI 083	574153N 0020408E
HMRI 035	603300N 0014257E (O Gate)	HMRI 086	573435N 0020749E
HMRI 038	602326N 0015851E	HMRI 089	572709N 0021133E
HMRI 041	600658N 0020200E	HMRI 092	571931N 0021521E
HMRI 044	595102N 0020249E	HMRI 095	571139N 0021915E
HMRI 047	593014N 0015015E	HMRI 098	570328N 0022316E
HMRI 050	591341N 0014136E	HMRI 101	565455N 0022726E
HMRI 053	590103N 0013811E	HMRI 104	564556N 0023147E
HMRI 056	584942N 0013510E	HMRI 107	563633N 0023535E
HMRI 059	583924N 0013227E	HMRI 110	562416N 0025108E
HMRI 062	582958N 0012959E	HMRI 113	560957N 0030900E
HMRI 065	582221N 0013204E	HMRI 116	555535N 0032034E
HMRI 068	581553N 0013804E		
HMRI 071	580923N 0014403E		

4.5.2.3.7.1 HMRI Whiskey is aligned along the axis MOCHA (593256N 0012159W) to PETOX (573333N 0014902W) thence to Hackley Head (571949N 0015717W). When Runway 16 is in use at Aberdeen, HMRI Whiskey is the designated inbound track and when Runway 34 is in use HMRI Whiskey is the designated outbound track for traffic planning to operate at 2000 FT and above.

4.5.2.3.7.2 HMRI Echo is aligned along the axis GORSE (571037N 0015351W) to SPIKE (573226N 0013953W) to TYSTI (592224N 0011440W) to TIRIK (593219N 0011214W). When Runway 34 is in use at Aberdeen, HMRI Echo is the designated inbound track but will also be used by outbound traffic planning to operate below 2000 FT. When Runway 16 is in use at Aberdeen, HMRI Echo is the designated outbound track for traffic at all levels.

4.5.2.3.7.3 Helicopter traffic inbound to Aberdeen planning along HMRIs 026 to 086 (inclusive) will be required to maintain the inbound HMRI until intercepting either HMRI Whiskey (Runway 16 in use at Aberdeen) or HMRI Echo (Runway 34 in use at Aberdeen) and then follow the designated inbound track as directed by Aberdeen ATC. Inbound HMRIs south of the HMRI 086 terminate at 30 DME ADN, from whence helicopter traffic will be directed by Aberdeen ATC.

4.5.2.3.7.4 Outbound helicopter traffic utilising the HMRIs 023 to 113 (inclusive) will be directed by Aberdeen to join the desired outbound HMRI via either HMRI Whiskey/Echo or as directed to a specific position on the required HMRI, dependent upon the runway in use at Aberdeen. (Outbound HMRIs south of HMRI 086 commence at 40 DME ADN).

4.5.2.3.7.5 Within the Aberdeen sectors, Aberdeen ATC will allocate ALTs or FLs tactically to participating flights.

Pilots on inter-rigging flights should plan to fly at the following ALTs:

a) Northbound (270˚ to 089˚ MAG track) 1000 FT, 2000 FT and 3000 FT AMSL;
b) Southbound (090˚ to 269˚ MAG track) 500 FT, 1500 FT and 2500 FT AMSL.

Note: *Under certain operating and meteorological conditions civil helicopters may operate below the base of the HMRIs.*

4.5.2.3.8 **Aberdeen - Atlantic Rim (West of Shetland Operations)**

4.5.2.3.8.1 The HMRI tracks between Aberdeen and the Atlantic Rim (as depicted at ENR 6-27) are as follows:

a) HMRI X-Ray (Outbound) - ADN VOR (571838N 0021602W) to SMOKI (574637N 0023556W) to WIK VOR (582732N 0030601W) to SODKI (584751N 0033753W) to VAMLA (600000N 0040000W);
b) HMRI Yankee (Inbound) - NESTA (600000N 0041000W) to MADOX (584343N 0034639W) to WIK VOR (582732N 0030601W).

Note: HMRI X-Ray is bi-directional between Aberdeen and Wick.

4.5.2.3.8.2 Altimeter Setting:

a) Within 30 DME ADN - Aberdeen QNH, or as directed by ATC;
b) Outside 30 DME ADN - The appropriate Regional Pressure Setting (RPS), or as directed by ATC.

Note: To enable controllers to plan and control vertical separation near the boundaries of Altimeter Setting Regions (ASR), helicopters approaching an ASR boundary, and in radio contact with ATC, are not to change RPS until instructed to do so.

4.5.2.3.8.3 Cruising altitudes:

Within the Aberdeen sectors, Aberdeen ATC will allocate ALTs or FLs tactically to participating flights.

Note: *Under certain operating and meteorological conditions civil helicopters may operate below the base of the HMRIs.*

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4.5.2.3.8.4 Moray Firth TMZ Phase 1 Controlling Authority Lossie Departures (119.575 MHz), active H24, see ENR 2.2 paragraph 4.

4.5.2.3.9 Charts depicting the Aberdeen Area HMRI track structure are at AD 2-EGPD-3-1/2. The chart at ENR 6-26 depicts the en-route HMRI track structure and shows the bi-directional HMRI established between the Ekofisk Hotel platform and platform P37/4, a route normally used by Norwegian helicopters.

4.5.2.4 **Operating Procedures**

4.5.2.4.1 **General**

4.5.2.4.1.1 **Helicopter Procedures.** Helicopter pilots wishing to use the service specified in paragraph 4.5.2.2 must file a flight plan. Pilots who have established two-way communication with the appropriate Sector and subsequently do not receive acknowledgement of a scheduled position report, should make every effort to relay the report via another aircraft or agency. For flights within the same or adjacent field complexes, helicopter pilots should maintain RTF contact on the field, company or Traffic Area frequency. Position reports by civil helicopter pilots operating on HMRIs are to be based on distance from either Aberdeen or Sumburgh VORs, according to the departure or destination aerodrome. Position reports are only required if the flight is not receiving a radar service from the ATSU. In this instance, unless otherwise specified by the ATSU, an initial report is to be made on outbound HMRIs at 40 NM and then at 20 NM intervals, subject to the limitations of VHF cover. For inbound flights subsequent to the initial call, reports are to be made at the same 20 NM intervals according to the destination aerodrome. If the elapsed time between two reporting points exceeds 15 minutes, an additional report is to be made after 15 minutes elapsed time since the last report.

En-route position reports are to include the following information:

a) Callsign;
b) Position (HMRI and range);
c) ALT or FL;
d) Position of next intended report.

On lifting from an installation or ship off-shore, the initial report is to include:

a) Callsign;
b) Actual position and altitude;
c) Requested HMRI and point of joining;
d) Requested altitude;
e) Total persons on board.

4.5.2.4.1.2 **Fixed-Wing Procedures.** Pilots of civil and military fixed-wing aircraft intending to fly within the areas of responsibility of the above Sectors are strongly advised to make use of the services provided. Crews of wildlife and aerial survey aircraft should consider utilising notification procedures detailed at ENR 1.1.4 as well as contacting Aberdeen ATSU prior to commencing operations. Whenever possible civil aircraft should be flown above the Transition Altitude at the appropriate level. Pilots are advised that helicopters engaged on inter-platform flights within the same field complex normally operate at about 500 FT AMSL and frequently carry underslung loads which limit the pilot's ability to take sudden avoidance action.

4.5.2.4.2 **Off-shore Safety Area (OSA)**

4.5.2.4.2.1 Pilots of helicopters entering the Aberdeen OSA should follow procedures detailed in paragraph 4.5.2.4.1.1.

4.5.2.4.2.2 **Fixed-Wing Procedures** . Where penetration of the Aberdeen OSA is essential, contact should be made on the appropriate Aberdeen frequency (paragraph 4.5.2.2) no later than 10 NM before entering the OSA giving their position, altitude, squawk, heading and intentions. Military pilots not previously in contact with the ASACS should call Boulmer ICF (259.225) or the appropriate Aberdeen frequency. Where pilots are unable to maintain contact on the appropriate Aberdeen frequency or the ASACS, and when not previously allocated a squawk, they should squawk A0007 with ALT (or mode C) selected. Maritime patrol aircraft (MPA) and fisheries protection aircraft should squawk A7300 with ALT (or mode C) selected.

4.5.2.4.2.3 **General Procedures.** Within the Sumburgh Radar and Brent Radar sectors, Aberdeen ATC will allocate ALTs or FLs tactically to participating flights.

4.5.2.4.2.4 **Off-shore Operations.** Helicopter off-shore support activity is not confined to published ATS hours and helicopters may be operating in VMC or IMC at all levels and times.

4.5.2.4.2.4.1 The positions of individual platforms within their parent field complex are detailed at paragraph 4.5.5.2.

4.5.2.4.2.5 Within the Aberdeen ATSU Areas of Responsibility as described in paragraph 4.5.2.2, during the published hours of operation, the following QNH values will be used:

a) Brent Radar Sector and northern area of the Sumburgh Radar Sector - Cormorant QNH. If the actual Cormorant QNH data is lost, the Puffin or Marlin will be used as appropriate.
b) Central and eastern area of the Sumburgh Radar Sector - Sumburgh QNH.
c) Western area of the Sumburgh Radar Sector - Shetland Regional QNH.
d) Southern area of the Sumburgh Radar Sector, south of 59N – Aberdeen QNH.
e) Aberdeen Sector out to ADN DME 90 - Aberdeen QNH.

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f) Aberdeen Sector beyond ADN DME 90 and north of HMRI 086 - Brae QNH. (If Brae QNH data is lost the Weller QNH will be used, this being the lower of the Rattray or Petrel RPS.)
g) Aberdeen Sector beyond ADN DME 90 and south of HMRI 086 - Fulmar QNH. (If Fulmar QNH data is lost the McCabe QNH will be used, this being the lower of the Rattray or Skua RPS.)
h) Aircraft routing on HMRI 086 will be instructed to set the most appropriate QNH for the traffic situation.

Note: *See chart at ENR 6-23 for areas.*

4.5.2.4.2.5.1 Transition level within the above areas will be determined with reference to the above pressure settings.

4.5.2.4.2.6 **Use of GPS for North Sea Operations**

4.5.2.4.2.6.1 UK AOC Holders intending to use GPS for en-route navigation for North Sea flight operations are to use GPS equipment that meets or exceeds CAA Specification 22. AOC holders requiring further information should contact their assigned flight operations Inspector. Non UK AOC holders are recommended to operate to at least the Specification 22 standard.

4.5.2.5 **Sumburgh CTR Helicopter Procedures**

4.5.2.5.1 **Standard Arrival and Departure Routes**

4.5.2.5.1.1 The Standard Arrival and Departure Routes are established for use in conjunction with the HMRIs and are shown at AD 2-EGPB-3-1/2. The route orientation is dependant on the runway-in-use as follows:

a) Westerly Operation (Runways 27 and 33 in use):

Departures for the East Shetland Basin are to route via BODAM (595506N 0011606W) and those for HMRIs Whiskey/Echo are to route via SILOK (594612N 0012900W);

Arrivals from the East Shetland Basin are to route via IZACK (595327N 0010113W) and those from HMRIs Whiskey/Echo are to route via BENTY (594615N 0010810W).

b) Easterly Operation (Runways 09 and 15 in use):

Departures for the East Shetland Basin are to route via IZACK and those for HMRIs Whiskey/Echo are to route via BENTY;

Arrivals from the East Shetland Basin are to route via BODAM and those from HMRIs Whiskey/Echo are to route via SILOK.

4.5.2.5.1.2 Additionally, to assist in the integration of flights operating under VFR or, at night, in accordance with a Special VFR clearance, VFR/SVFR flights may be instructed to route via Mousa Lighthouse Visual Reference Point. (See AD 2-EGPB-2.22 paragraph 2).

4.5.2.5.2 **Helicopter Holding Patterns**

4.5.2.5.2.1 **IFR Holding Patterns.** IFR holding patterns are established at Juliet 20, Mike 20, MOCHA and TIRIK. The holds are 1-minute left-hand patterns aligned on the HMRI inbound track.

4.5.2.5.2.2 **Visual Holding Patterns.** Visual holding patterns are established at BODAM, Mousa Lighthouse VRP, IZACK, BENTY and SILOK. Holding is to be conducted clear of cloud and in sight of the surface and helicopters will adopt a 2 minute left-hand orbit, except at BENTY which is right-hand. Maximum holding altitude 1000 FT AMSL.

4.5.3 **Morecambe Bay and Liverpool Bay Gas Fields - Helicopter Support Flights**

4.5.3.1 Permanent platforms positioned on the Morecambe Bay and Liverpool Bay Gas Fields are shown at ENR 6-28.

4.5.3.2 **Helicopter Traffic Zone (HTZ)**

4.5.3.2.1 A Helicopter Traffic Zone (HTZ), established as notification of helicopters engaged in platform approaches, departures and extensive unco-ordinated inter-platform transit flying, is established around the Morecambe Bay and Liverpool Bay Gas Fields. A HTZ consists of the airspace from sea level to 2000 FT AMSL contained within the tangential lines, not exceeding 5 NM in length, joining the neighbouring circumferences of circles 1.5 NM radius around each individual platform helideck.

4.5.3.3 **Airspace Structure - Morecambe Bay**

4.5.3.3.1 The helicopter support land base is Blackpool Airport. Low level flights, normal operating height 1000 FT AMSL or above on the Blackpool QNH, operate daily between Blackpool Airport and the helidecks. Under certain operating and meteorological conditions civil helicopters may operate below 1000 FT AMSL on the Blackpool QNH.

4.5.3.3.2 The route structure is:

Blackpool to Point 'N' (534922N 0030858W) to DP4.

Note 1: *Point 'N' may be used as a holding point.*

Note 2: *Route is bi-directional.*

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4.5.3.3.3 Helicopter traffic information is available from Blackpool Approach during published hours of operation.

4.5.3.3.4 Pilots are warned that gas release and burn-off operations may take place at any time without prior notification from off-shore gas installations.

4.5.3.4 **Airspace Structure - Liverpool Bay**

4.5.3.4.1 The helicopter support land base is Blackpool Airport. Low level flights, normal operating height 1000 FT AMSL on the Blackpool QNH, operate daily between Blackpool Airport and the helidecks. Transit height to/from the Lennox platform is 500 FT AMSL. Flights between helidecks are normally conducted between 500 FT and 1000 FT.

4.5.3.4.2 The route structure is:

a) Blackpool to Gate G (534449N 0030441W) to Hamilton (533357N 0032716W);
b) Blackpool to Gate G to Lennox (533719N 0031037W).

Note: *Routes are bi-directional.*

4.5.3.4.3 Helicopter traffic information is available from Warton Approach during the Warton ATC published hours of operation. Outside these hours, information is available from Blackpool Approach.

4.5.3.4.4 Gas release and burn-off operations may take place at any time without prior notification from off-shore gas installations.

4.5.3.4.5 Burbo Bank TMZ Controlling Authority Warton, (APP 129.530 MHz), active Mon-Thu 0730-1900 (0630-1800), Fri 0730-1700 (0630-1600). See ENR 2.2.

4.5.3.4.6 Walney TMZ Controlling Authority Warton, (APP 129.530 MHz), active Mon-Thu 0730-1900 (0630-1800), Fri 0730-1700 (0630-1600). See ENR 2.2.

4.5.3.5 **Altimeter Setting**

4.5.3.5.1 The Blackpool QNH will be used by helicopter support flights in transit to and from Blackpool Airport, and within the Morecambe Bay and Liverpool Bay Gas Fields.

4.5.4 **Flight Plan Procedures for Helicopter Operations over Sea Areas around the United Kingdom**

4.5.4.1 Pilots are warned of the need to consider application of the procedures detailed at ENR 1-10-4 paragraph 1.11, when operating under both VFR and IFR in support of off-shore facilities (particularly over the Southern and Northern North Sea, Atlantic Rim and Morecambe and Liverpool Bays). When flying to a location without an ATSU or AFTN link, nomination of a responsible person is vital to guarantee the initiation of alerting action in the event of non-arrival.

4.5.5 **RTF and NDB Frequencies Used on Off-shore Installations**

4.5.5.1 **General**

4.5.5.1.1 All Operators wishing to establish an aeronautical radio station within the UK Off-shore Areas under concession are required to obtain regulatory approval from the Civil Aviation Authority prior to operating that radio station.

4.5.5.1.1.1 Application for approval to establish and operate an aeronautical radio station on fixed or mobile installations must be made to Ofcom:

Post: Spectrum Licensing, PO Box 1285, Warrington, WA1 9GL.
Phone: 020-7981 3131.
Email: spectrum.licensing@ofcom.org.uk
Http: www.ofcom.org.uk/manage-your-licence

This application will then be passed to the Civil Aviation Authority (CAA) for approval. Following the approval process, operators of radio stations should hold the following:

a) An equipment approval under the Air Navigation Order (ANO), issued by the CAA;
b) A frequency assignment, issued by the CAA;
c) An aeronautical radio licence under the Wireless Telegraphy Act 2006 (‘the WT Act’), issued by Ofcom.

Applicants should note that coordination with other European states may be necessary before a frequency assignment can be made; applications for approval should be made as early as possible and can be made up to six months before operationally required.

4.5.5.1.2 Frequencies listed for fixed installations and the frequency plan for mobile installations in UK Areas Under Concession.

a) Information on frequencies in use by the off-shore helicopter community can be obtained from the Helideck Certification Agency at http://www.helidecks.org/index.php/helideck-certificates;

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b) Mobiles must operate in accordance with the frequency plan shown in paragraph 4.5.5.3;
c) Aeronautical RTF operations for all installations north of 56°N and east of 5°W and within the UK Off-shore Areas Under Concession, with the exception of the East Shetland Basin – that is Off-shore RTF Areas A to I **(Note 1)** – have each been provided with two RTF frequencies, one for Traffic **(Note 2)** RTF calls and the other for Logistics **(Note 3)** RTF calls, as listed in paragraph 4.5.5.3.1. No suffix will be added to the Civil Aviation Authority approved callsign when traffic information is to be passed by the operator of the aeronautical radio station. When logistics information is to be passed the suffix 'LOG' shall be added to the approved callsign.

Simultaneous operation of the traffic and the LOG frequencies may be required, installations are therefore required to carry radio facilities to support this.

Note 1: *Operators wishing to operate installations in Area X on the RTF frequency allocations chart should contact the Authority at least 90 days before operation is required in order to obtain a temporary RTF frequency assignment.*

Note 2: *The Traffic frequency is to be used for giving information on aircraft positions, obtaining deck clearance, and for lifting calls.*

Note 3: *The logistics (LOG) frequency should be used for all other calls permitted within the terms of an OPC service such as, departure messages, in-field routings, payload information, and ordering fuel and refreshments.*

RTF Operation - Areas A to P: *RTF frequency assignments for off-shore installations may only be used for communication between installations and aircraft that are both within the same off-shore RTF frequency assignment area. The Traffic frequencies may be used for communication with aircraft that are below 2000 FT and the LOG frequencies may be used for communication with aircraft that are below 7000 FT*

Published Air Traffic Service procedures should be followed where available. A listening watch should be maintained with the Air Traffic Service Unit (ATSU) where possible. Prior to leaving the ATSU's operating area, pilots should advise the ATSU of the aircraft's movement intentions. Where maintaining a listening watch with the ATSU is not possible and at all times when the aircraft is below 1500 FT a listening watch on the RTF Area Traffic Frequency shall be maintained.

Outbound - To the off-shore installation: *Pilots who are in communication with the ATSU should, once established in the descent and still above 1500 FT, establish contact with their destination on the Area Traffic Frequency, and hand over the flight watch. They should then advise the ATSU on passing 1500 FT. Landing clearances should be obtained from the HLO who will be operating on the Traffic frequency.*

Inbound - From the off-shore installation: *Lifting calls should be made on the Traffic frequency. Once airborne establish communication with the appropriate ATSU whilst below 1000 FT or as soon practical. Published Air Traffic Service procedures should be followed where available.*

The appropriate LOG frequency should be used as required to exchange information with the destination. When operating below 1500 FT or outside the ATSU's area of operation pilots should retune the ATSU radio to the LOG frequency for passing Logistics information. When not being used for LOG messages the radio should be retuned to monitor the appropriate ATSU's frequency.

4.5.5.1.3 Offshore installation's VHF RTF facilities and aeronautical Non Directional Beacons operate by arrangement only; the unserviceability of these facilities will **NOT** be promulgated by NOTAM.

4.5.5.1.4 **NDBs on both fixed and mobile installations generally operate on shared frequencies.** NDBs that share frequencies should only be switched on if requested by the helicopter pilot and then only after the frequency has been monitored by the pilot and found to be vacant immediately prior to switching on. The pilot should advise the NDB operators as soon as they no longer require the use of the NDB. When no longer required the NDB should be switched off. Additionally, in order to assist helicopters transiting fields a small number of NDBs on fixed installations have been assigned frequencies that enable them to operate as close to H24 as practical. Pilots may find these NDBs already on and that they remain on after they have advised the installation that they no longer require their use.

4.5.5.1.5 Flight Information Services are provided by NATS Limited from Aberdeen in the Aberdeen ATSU Off-shore Areas of Responsibility (ENR 6-23 and 6-25).

4.5.5.2 **RTF and NDB Frequencies/Channels for Fixed Installations**

4.5.5.2.1 Data on RTF and NDB frequencies/channels in use by the off-shore helicopter community can be obtained from the Helideck Certification Agency at http://www.helidecks.org/index.php/helideck-certificates.

4.5.5.3 **RTF and NDB Frequencies/Channels used on Off-shore Installations in the UK Areas under Concession**

4.5.5.3.1 RTF Frequencies/Channels for Off-shore Installations.

Area	Boundaries	VHF RTF Channel	
		Traffic	LOG
A	583736N 0050000W - 602049N 0050000W - 602106N 0045640W - 602405N 0044416W - 604743N 0041832W - 605149N 0041400W - 605459N 0041030W - 610245N 0040352W - 610427N 0040226W - 610739N 0035937W - 612137N 0034754W - 614500N 0031304W - 614500N 0003400W - 595244N 0011712W - 574200N 0014713W - 574200N 0035805W thence along the UK East Coast to 583736N 0050000W.	122.805	129.130

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Area	Boundaries	VHF RTF Channel	
		Traffic	LOG
B	574200N 0014713W - 595244N 0011712W - 614500N 0003400W - 614410N 0003900E - 612412N 0003900E - 610807N 0004319E - 605828N 0004555E - 604846N 0010430E - 604116N 0011454E - 603808N 0012042E - 603300N 0014257E - 603300N 0015659E - 602324N 0015851E - 574200N 0014648W - 574200N 0014713W.	122.805	129.130
C	602324N 0015851E - 595346N 0020430E - 591722N 0014236E - 591340N 0014136E - 584026N 0002838E thence anti-clockwise by the arc of a circle radius 120 NM centred on 571838N 0021602W (ADN VOR) to 585707N 0000719W - 602324N 0015851E.	122.180	125.405
D	591340N 0014136E - 582546N 0012854E - 582430N 0013034E - 581627N 0010020E thence anti-clockwise by the arc of a circle radius 120 NM centred on 571838N 0021602W (ADN VOR) to 584026N 0002838E - 591340N 0014136E.	123.655	129.130
E	585707N 0000719W thence clockwise by the arc of a circle radius 120 NM centred on 571838N 0021602W (ADN VOR) - 581627N 0010020E - 573123N 0013500W - 574200N 0013500W - 574200N 0014648W - 585707N 0000719W.	123.005	128.405
F	582430N 0013034E - 580500N 0014803E - 572707N 0013500W - 573123N 0013500W - 582430N 0013034E.	123.555	126.405
G	580500N 0014803E - 575416N 0015748E - 573927N 0020521E - 572231N 0013500W - 572707N 0013500W - 580500N 0014803E.	122.005	126.355
H	573927N 0020521E - 564859N 0023018E - 571506N 0013500W - 572231N 0013500W - 573927N 0020521E.	122.330	129.705 (Shell 130.880)
I	564859N 0023018E - 563540N 0023642E - 560510N 0031455E - 560000N 0031758E - 560000N 0013500W - 571506N 0013500W - 564859N 0023018E.	122.780	126.805 (Shell 130.880)
J	560000N 0031758E - 555004N 0032355E - 543715N 0025349E - 542245N 0024543E - 525851N 0005830E thence along the UK East Coast - 560000N 0023000W - 560000N 0031758E.	122.230	122.230
K	542245N 0024543E - 535745N 0025155E - 534003N 0025719E - 533503N 0025913E - 532809N 0030055E - 531803N 0030319E - 525551N 0030936E - 520000N 0022345E - 520000N 0012528E thence along the UK East Coast - 525851N 0005830E - 542245N 0024543E.	130.280	130.280
	In some circumstances the following may apply:		
	(a) The Leman/Sean Indefatigable Fields use	123.630	123.630
	(b) The Esmond/Forbes/Gordon Fields use	122.330	122.330
	(c) The Rough/West Sole Fields and Villages use	129.880	129.880
	(d) The Viking Field use	118.655	118.655
	(e) The Viking/Ann Field use	123.580	123.580
	(f) The Hewett/Arpet Fields use	122.880	122.880
	(g) The Thames Field use	123.230	123.230
	(h) The Ravenspurn Field use	123.030	123.030
	(i) The Cleeton/West Sole Fields and Villages use	130.730	130.730
L	550000N 0051004W thence along the UK West Coast - 530000N 0042542W - 530000N 0051200W - 540000N 0051200W - 540000N 0060608W thence along the Northern Ireland East Coast - 550000N 0055911W - 550000N 0051004W.	122.380	122.380
	In some circumstances the following may apply: Liverpool Bay Fields use	129.780	129.780
M	595000N 0050000W - 583736N 0050000W - 583100N 0061538W thence along the UK West Coast to 580000N 0070542W - 580000N 0100000W - 595952N 0100000W - 595627N 0090040W - 601845N 0052412W - 602049N 0050000W - 595000N 0050000W.	123.255	123.255
N	580000N 0070542W thence along the UK West Coast - 554000N 0063000W - 554000N 0064800W - 555000N 0064800W - 555000N 0070000W - 560000N 0070000W - 560000N 0080000W - 561000N 0080000W - 561000N 0084800W - 562000N 0084800W - 562000N 0093000W - 562312N 0100000W - 580000N 0100000W - 580000N 0070542W.	130.155	130.155
O	595952N 0100000W - 562312N 0100000W - 570000N 0192700W - 595000N 0142600W - 594957N 0131612W - 600902N 0131612W - 600718N 0121737W - 600250N 0111627W - 600208N 0105047W - 600057N 0102051W - 595952N 0100000W.	122.230	122.230

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

Area	Boundaries	VHF RTF Channel	
		Traffic	LOG
P	530000N 0051900W - 530000N 0042542W thence along the UK South Coast to 520000N 0012528E - 520000N 0023831E - 514957N 0023015E - 513647N 0021512E - 513328N 0021418E - 513014N 0020718E - 512011N 0020218E - 511935N 0020143E - 511424N 0015713E - 510555N 0014326E - 510216N 0013248E - 505657N 0012120E - 505344N 0011653E - 504747N 0011523E - 503835N 0010721E - 502319N 0004634E - 501938N 0003607E - 501409N 0000209E - 501310N 0001535W - 500726N 0003005W - 500824N 0010005W - 500912N 0013005W - 500911N 0020331W - 495747N 0024829W - 494627N 0025635W - 493827N 0032105W - 493309N 0033455W - 493239N 0034249W - 493205N 0035552W - 492736N 0041759W - 492719N 0042151W - 492310N 0043244W - 491424N 0051105W - 491256N 0052045W - 491206N 0054035W - 481257N 0091200W - 481000N 0092216W - 481000N 0100000W - 482000N 0100000W - 482000N 0094800W - 483000N 0094800W - 483000N 0093600W - 485000N 0093600W - 485000N 0092400W - 490000N 0092400W - 490000N 0091700W - 490956N 0091705W - 490956N 0091205W - 492000N 0091200W - 492000N 0090300W - 493000N 0090300W - 493000N 0085400W - 494000N 0085400W - 494000N 0084500W - 494956N 0084505W - 494956N 0083605W - 495956N 0083605W - 495956N 0082405W - 500956N 0082405W - 500956N 0081205W - 502000N 0081200W - 502000N 0080000W - 502956N 0080005W - 502956N 0073605W - 503956N 0073605W - 503956N 0071205W - 505000N 0071200W - 505000N 0070300W - 510000N 0070300W - 510000N 0064800W - 511000N 0064800W - 511000N 0064200W - 512000N 0064200W - 512000N 0063300W - 513000N 0063300W - 513000N 0061800W - 514000N 0061800W - 514000N 0060600W - 515000N 0060600W - 515000N 0060000W - 515400N 0060000W - 515400N 0055700W - 515800N 0055700W - 515800N 0055400W - 520000N 0055400W - 520000N 0055000W - 520400N 0055000W - 520400N 0054600W - 520800N 0054600W - 520800N 0054200W - 521200N 0054200W - 521200N 0053900W - 521600N 0053900W - 521600N 0053500W - 522400N 0053500W - 522400N 0052248W - 523200N 0052248W - 523200N 0052800W - 524400N 0052800W - 524400N 0052430W - 525200N 0052430W - 525200N 0052230W - 525900N 0052230W - 525900N 0051900W - 530000N 0051900W.	122.780	122.780
ESB	614410N 0003900E - 612412N 0003900E (Gate Golf) - 610807N 0004319E (Gate Hotel) - 605828N 0004555E (Gate Juliet) - 604846N 0010430E (Gate Lima) - 604116N 0011454E (Gate Mike) - 603808N 0012042E (Gate November) - 603300N 0014257E (Gate Oscar) - 603300N 0015659E - 612122N 0014718E (ALLOY) - 614410N 0013329E - 614410N 0003900E.	129.405	129.405

4.5.5.3.2 NDB Frequencies for Mobiles

Within the East Shetland Basin (ESB)	614410N 0003900E - 614410N 0013329E - 612122N 0014718E (ALLOY) - 612000N 0014735E - 612000N 0004008E - 612412N 0003900E - 614410N 0003900E.	553.5	20
	612000N 0004008E - 612000N 0014735E - 610000N 0015138E - 610000N 0004530E - 610807N 0004319E - 612000N 0004008E.	597.5	20
	610000N 0004530E - 610000N 0015138E - 603300N 0015659E - 603300N 0014257E - 603808N 0012042E - 604116N 0011454E - 604846N 0010430E - 605828N 0004555E - 610000N 0004530E.	579.5	20
1	635313N 0002927W - 633809N 0003007W - 633809N 0001106W - 625328N 0003821E - 622219N 0010622E - 614410N 0013329E - 614410N 0003900E - 612412N 0003900E - 610807N 0004319E - 605828N 0004555E - 604846N 0010430E - 604116N 0011454E - 603808N 0012042E - 603300N 0014257E - 603300N 0015659E - 595346N 0020430E - 591722N 0014236E - 590000N 0013755E - 590000N 0050000W - 602049N 0050000W - 602106N 0045640W - 602405N 0044416W - 604743N 0041832W - 605149N 0041400W - 605459N 0041030W - 610245N 0040352W - 610427N 0040226W - 610739N 0035937W - 612137N 0034754W - 615207N 0031144W - 615914N 0030320W - 634039N 0004744W - 635313N 0002927W.	588.5	20
2	590000N 0002400E - 570000N 0002400E - 570000N 0021012W thence along the UK East Coast to 583736N 0050000W - 590000N 0050000W - 590000N 0002400E.	597.5	20
	590000N 0002400E - 590000N 0013755E - 582546N 0012854E - 575416N 0015748E - 570000N 0022458E - 570000N 0002400E - 590000N 0002400E.	553.5	20
	570000N 0022458E - 563540N 0023642E - 560510N 0031455E - 560000N 0031758E - 560000N 0023000W thence along the East Coast of Scotland to 570000N 0021012W - 570000N 0022458E.	897.0	20
4A	560000N 0031758E - 555004N 0032355E - 543715N 0025349E - 542245N 0024543E - 525851N 0005830E thence along the UK East Coast to 560000N 0023000W - 560000N 0031758E.	949.0 (†)	20
4B	542245N 0024543E - 535745N 0025155E - 534003N 0025719E - 533503N 0025913E - 532809N 0030055E - 531803N 0030319E - 525551N 0030936E - 520000N 0022345E - 520000N 0012528E thence along the UK East Coast to 525851N 0005830E - 542245N 0024543E.	579.5 (‡) 897.0 (‡)	20

ENR 1.6 ATS SURVEILLANCE SERVICES AND PROCEDURES (continued)

5	550000N 0051004W thence along the UK West Coast - 530000N 0042542W - 530000N 0051200W - 540000N 0051200W - 540000N 0060608W thence along the N Ireland East Coast to 550000N 0055911W - 550000N 0051004W.	597.5	20
6	595000N 0050000W - 583736N 0050000W - 583100N 0061538W thence along the UK West Coast to 580000N 0070542W - 580000N 0100000W - 595952N 0100000W - 595627N 0090040W - 601845N 0052412W - 602049N 0050000W - 595000N 0050000W.	579.5	20
7	580000N 0070542W thence along the UK West Coast to 554000N 0063000W - 554000N 0064800W - 555000N 0064800W - 55000N 0070000W - 560000N 0070000W - 560000N 0080000W - 561000N 0080000W - 561000N 0084800W - 562000N 0084800W - 562000N 0093000W - 562312N 0100000W - 580000N 0100000W - 580000N 0070542W.	553.5	20
	(†) **Area 4a NDB/VHF pairing** — 949.0 kHz/122.225 MHz. (‡) **Area 4b NDB/VHF pairing** — 579.5 kHz/130.275 MHz or 897.0 kHz/130.275 MHz. For Notes See End of Table.		
8	595952N 0100000W - 562312N 0100000W - 570000N 0192700W - 595000N 0142600W - 594957N 0131612W - 600902N 0131612W - 600718N 0121737W - 600250N 0011627W - 600208N 0105047W - 600057N 0102051W - 595952N 0100000W.	897.0	20 min 50 max
9	530000N 0051900W - 530000N 0042542W thence along the UK South Coast to 520000N 0012528W - 520000N 0023831E - 514957N 0023015E - 513647N 0021512E - 513328N 0021418E - 513014N 0020718E - 512011N 0020218E - 511935N 0020143E - 511424N 0015713E - 510555N 0014326E - 510216N 0013248E - 505657N 0012120E - 505344N 0011653E - 504747N 0011523E - 503835N 0010721E - 502319N 0004634E - 501938N 0003607E - 501409N 0000209E - 501310N 0001535W - 500726N 0003005W - 500824N 0010005W - 500912N 0013005W - 500911N 0020331W - 495747N 0024829W - 494627N 0025635W - 493827N 0032105W - 493309N 0033455W - 493239N 0034249W - 493205N 0035552W - 492736N 0041759W - 492719N 0042151W - 492310N 0043244W - 491424N 0051105W - 491256N 0052045W - 491206N 0054035W - 481257N 0091200W - 481000N 0092216W - 481000N 0100000W - 482000N 0100000W - 482000N 0094800W - 483000N 0094800W - 483000N 0093600W - 485000N 0093600W - 485000N 0092400W - 490000N 0092400W - 490000N 0091700W - 490956N 0091705W - 490956N 0091205W - 492000N 0091200W - 492000N 0090300W - 493000N 0090300W - 493000N 0085400W - 494000N 0085400W - 494000N 0084500W - 494956N 0084505W - 494956N 0083605W - 495956N 0083605W - 495956N 0082405W - 500956N 0082405W - 500956N 0081205W - 502000N 0081200W - 502000N 0080000W - 502956N 0080005W - 502956N 0073605W - 503956N 0073605W - 503956N 0071205W - 505000N 0071200W - 505000N 0070300W - 510000N 0070300W - 510000N 0064800W - 511000N 0064800W - 511000N 0064200W - 512000N 0064200W - 512000N 0063300W - 513000N 0063300W - 513000N 0061800W - 514000N 0061800W - 514000N 0060600W - 515000N 0060600W - 515000N 0060000W - 515400N 0060000W - 515400N 0055700W - 515800N 0055700W - 515800N 0055400W - 520000N 0055400W - 520000N 0055000W - 520400N 0055000W - 520400N 0054600W - 520800N 0054600W - 520800N 0054200W - 521200N 0054200W - 521200N 0053900W - 521600N 0053900W - 521600N 0053500W - 522400N 0053500W - 522400N 0052248W - 523200N 0052248W - 523200N 0052800W - 524400N 0052800W - 524400N 0052430W - 525200N 0052430W - 525200N 0052230W - 525900N 0052230W - 525900N 0051900W - 530000N 0051900W.	435	20

Note 1: *Simultaneous operation of NDBs on the same frequency by more than one mobile installation is likely to result in incorrect navigational information being displayed to pilots. For this reason it is essential that NDB operators read and comply with Notes regarding off-shore radio facilities. CAA Doc 446 is available from the department detailed at paragraph 4.5.5.1.1.1.*
Note 2: *Alternative arrangements may be desirable for flight safety reasons when working adjacent to a permanent installation. These will be agreed by the CAA in consultation with the parties concerned. Where the mobile installation temporarily uses the RTF frequency assigned to the permanent installation, helicopters will not normally use the mobile NDB because of the difficulty in co-ordinating with other users of the same NDB frequency.*
Note 3: *If NDB operation does become necessary the appropriate NDB frequency shown in the diagram at ENR 6-31 is to be used and the helicopter company involved is requested to co-ordinate use with other mobiles on the appropriate area frequency.*

ENR 1.7 ALTIMETER SETTING PROCEDURES

1 Notification

1.1 The Selected Transition Altitudes listed in paragraph 4 are notified for the purposes of SERA.3110 Cruising Levels, SERA.5005 Visual Flight Rules and SERA.5020 IFR - Rules Applicable to IFR Flights within Controlled Airspace.

1.2 For the purpose of SERA.5005(g), aircraft in level cruising flight and operated in accordance with the visual flight rules above 3000 FT AMSL are not required to be flown at a cruising level appropriate to its magnetic track unless flying in conformity with the conditions specified by the appropriate air traffic control unit.

1.3 For the purposes of SERA.5025(a), an aircraft in level flight outside controlled airspace at or below 3000 FT AMSL and operated in accordance with the instrument flight rules is not required to be flown at a cruising level appropriate to its magnetic track if it flies:

a) in conformity with the instructions of the appropriate air traffic service unit; or
b) in accordance with holding procedures notified in relation to an aerodrome.

2 Introduction

2.1 The Altimeter Setting Procedures in use in the UK generally conform to those contained in ICAO Doc 8168-PANS OPS/611 and Doc 4444-PANS ATM/501. Differences are in bold.

2.2 The purpose of these procedures is to provide pilots with suitable pressure information which will assist them in maintaining adequate terrain clearance and also to ensure a safe standard of flight separation by the general use of altimeters set at 1013.2 hPa.

3 General Procedures

3.1 The Transition Altitude within the UK is 3000 FT except in, or beneath, that Airspace specified at paragraph 4.1.

3.2 Transition Altitudes are shown in the aerodrome directory in AD 2.17 as well as on aerodrome Approach and ATC Surveillance Minimum Altitude Charts.

3.3 The vertical position of aircraft at, or below, any Transition Altitude will normally be expressed in terms of Altitude. The vertical position at, or above, any Transition Level will normally be expressed in terms of Flight Level. When descending through the Transition Layer the vertical position will be expressed by pilots in terms of Altitude, and when climbing in terms of Flight Level. The Transition Altitude and the Transition Level may be used concurrently in cruising flight, with vertical separation ensured.

3.4 Flight Levels are measured with reference to the Standard Pressure datum of 1013.25 hPa. In the UK, the first available Flight Level above the Transition Altitude is separated from the Transition Altitude by a minimum pressure interval corresponding to a nominal 1000 FT in the ISA. Consecutive IFR cruising Flight Levels above the Transition Level are separated by pressure intervals corresponding to 1000 FT in the ISA up to and including FL 410 and by pressure intervals corresponding to 2000 FT in the ISA above FL 410. Cruising level requirements are detailed at ENR 1.7, paragraph 6.1. FL 195 will not be allocated as a cruising level.

3.5 QNH reports should be obtained from an ATS Unit. These QNH values are rounded down to the nearest whole hectopascal but are available at certain aerodromes in tenths of hectopascals for landing aircraft on request.

3.6 Altimeter setting procedures at military aerodromes may vary from those detailed in this section.

3.7 **Altimeter Setting Regions (ASR).** To make up for any lack of stations reporting actual QNH, the UK has been divided into a number of ASRs for each of which the National Meteorological Office calculates the lowest forecast QNH (Regional Pressure Setting) for each hour. These values are available hourly for the period H+1 to H+2 and may be obtained from all aerodromes having an Air Traffic Service, from London AC (Swanwick) and Scottish AC (Prestwick), or by telephone.

3.8 The ASRs are listed below together with the MET Office Codes. The area covered by the Regions are shown on the combined Flight Information Region (FIR) and ASR Chart at ENR 6-18.

Skerry (01)	Holyhead (07)	Chatham (12)	Orkney (17)
Portree (02)	Barnsley (08)	Portland (13)	Marlin (18)
Rattray (03)	Humber (09)	Yarmouth (14)	Petrel (19)
Tyne (04)	Scillies (10)	Cotswold (15)	Skua (20)
Belfast (05)	Wessex (11)	Shetland (16)	Puffin (21)

3.9 Airspace within all Control Zones (CTRs), and within and below all Terminal Control Areas (TMAs), Control Areas (CTAs) except Airways and the Worthing and Clacton Control Areas, during their notified hours of operation, does not form part of the ASR Regional Pressure Setting system.

3.10 When flying in Airspace below TMAs and CTAs detailed above, pilots should use the QNH of an adjacent aerodrome when flying at or below the Transition Altitude. It may be assumed that for aerodromes located beneath such Areas, the differences in the QNH values are insignificant. When flying beneath Airways whose base levels are expressed as Altitudes pilots are recommended to use the QNH of an adjacent aerodrome in order to avoid penetrating the base of Controlled Airspace.

3.11 Pilots operating north of 6130N within the Airspace detailed at ENR 2.2, paragraph 1.1 when not receiving a service from Sumburgh Radar are advised to set the Puffin Regional Pressure Setting as the pressure datum whilst flying at or below 3000 FT.

ENR 1.7 ALTIMETER SETTING PROCEDURES (continued)

3.12 The QNH settings to be used within the Northern North Sea Radar Service Areas are shown at ENR 6-23.

4 Selected Transition Altitudes

4.1 The following Transition Altitudes apply to flights within or beneath the following Airspace:

Aberdeen CTR/CTA	6000 FT
Belfast CTR/TMA	6000 FT
Birmingham CTR/CTA	6000 FT
Bristol CTR/CTA	6000 FT
Cardiff CTR/CTA	6000 FT
Channel Islands CTR/CTA	5000 FT
Clacton CTA	6000 FT
Daventry CTA	6000 FT
East Midlands CTR/CTA	6000 FT
Edinburgh CTR/CTA	6000 FT
Glasgow CTR/CTA	6000 FT
Leeds Bradford CTR/CTA	5000 FT †
Liverpool CTR/CTA	5000 FT
London TMA	6000 FT
Manchester TMA	5000 FT
Newcastle CTR/CTA	6000 FT
Norwich CTR/CTA	5000 FT †
Scottish TMA	6000 FT
Solent CTA	6000 FT †
Sumburgh CTR/CTA	6000 FT †
Teesside International CTR/CTA	6000 FT †
Worthing CTA 1, 2, 3 and 5	6000 FT

Note: *† Outside the notified hours of operation the Transition Altitude is 3000 FT.*

5 Detailed Procedures

5.1 **Take-off and climb**

5.1.1 A QNH altimeter setting is given with the taxiing clearance prior to take-off.

5.1.2 At UK aerodromes the designated location for pre-flight altimeter checks is the apron.

5.1.3 For all major UK aerodromes, the apron elevation (or the elevation of various parts of an apron where there is significant variation between them) has been determined and the value is displayed in the flight clearance office at the aerodrome concerned. It is also given at AD 2.8.

5.1.4 Within Controlled Airspace a pilot should set one altimeter to the latest Aerodrome QNH prior to take-off. While flying at, or below, the Transition Altitude vertical position will be expressed in terms of altitude based upon the Aerodrome QNH. When cleared for climb to a Flight Level, vertical position will be expressed in terms of Flight Level, unless intermediate altitude reports have been specifically requested by Air Traffic Control.

5.1.5 Outside Controlled Airspace, a pilot may use any desired setting for take-off and climb. However, when under IFR, vertical position must be expressed in terms of Flight Level on climbing through the Transition Altitude.

5.1.6 Pilots taking-off at aerodromes beneath Terminal Control Areas and Control Areas should use aerodrome QNH when flying below the Transition Altitude and beneath these Areas, except that the aerodrome QFE may be used when flying within the circuit. It may be assumed that for aerodromes beneath the same TMA or CTA the differences in their QNH values are insignificant.

5.2 **En-route**

5.2.1 **Within Controlled Airspace**

5.2.1.1 At and above the transition level and during en-route flight the aircraft should be flown at Flight Levels. The latest and most appropriate Regional Pressure Setting value is to be used for checking terrain clearance in flight. Aircraft flying in a Control Zone or TMA at an Altitude at or below the Transition Altitude will be given the appropriate QNH setting in their clearance to enter the

ENR 1.7 ALTIMETER SETTING PROCEDURES (continued)

Zone/TMA.

5.2.2 **Outside Controlled Airspace and within Active TRAs**

5.2.2.1 In flight at or below 3000 FT AMSL, pilots may use any desired setting. However, pilots flying beneath a TMA or CTA should obtain the QNH from an aerodrome situated beneath that area when flying below the Transition Altitude. It may be assumed that for aerodromes beneath the same TMA or CTA, the differences in the QNH values are insignificant. References to vertical position in flight plans and communications with ATC are to be expressed in terms of altitude.

5.2.2.2 **Outside Controlled Airspace**

a) **IFR**. When flying under IFR above the Transition Altitude, pilots must have 1013.2 hPa selected on an altimeter and conform to the cruising levels at ENR 1.7 paragraph 6.1. An aircraft in level flight operated in accordance with the instrument flight rules outside controlled airspace at or below 3000 FT AMSL is not required to conform with the cruising levels at ENR 1.7 paragraph 6.1 if it is flown in conformity with the instructions of the appropriate air traffic service unit; or in accordance with holding procedures notified in relation to an aerodrome.
b) **VFR**. When flying under VFR, aircraft in level cruising flight and operated in accordance with the visual flight rules above 3000 ft amsl are not required to conform with the cruising levels at ENR 1.7 paragraph 6.1 unless flying in conformity with the conditions specified by the appropriate air traffic control unit. The latest and most appropriate lowest forecast Regional Pressure Setting value should be used for checking terrain clearance.

5.2.2.3 **Flight within Active TRAs**

a) **IFR**. When flying under IFR above the Transition Altitude, pilots must have 1013.2 hPa selected on an altimeter and conform with the cruising level requirements at ENR 1.7, paragraph 6.1.
b) **VFR**. When flying under VFR, pilots are recommended to conform with the cruising level requirements at ENR 1.7, paragraph 6.1. The latest and most appropriate lowest forecast Regional Pressure Setting value should be used for checking terrain clearance.

5.3 **Approach and Landing**

5.3.1 When an aircraft is descended from a Flight Level to an Altitude preparatory to commencing approach for landing, ATC will pass the appropriate aerodrome QNH. In addition, ATC will also pass the Transition Level in due time prior to reaching it during descent either by voice communications, ATIS broadcast or if available, data link. On vacating the Flight Level, the pilot will change to the aerodrome QNH unless further Flight Level vacating reports have been requested by ATC, in which case, the aerodrome QNH will be set following the final Flight Level vacating report. Thereafter, the pilot will continue to fly on the aerodrome QNH until established on final approach. When requested by the pilot or local procedures require, the appropriate QFE and aerodrome or threshold elevation shall also be given.

5.3.2 **When carrying out a radar approach, ATC will assume that an aircraft is using QNH on final approach and will include a reminder of the appropriate QNH setting in the RTF phraseology. If the pilot requests to undertake the approach using QFE, then ATC will pass the appropriate QFE and 'height' will be substituted for 'Altitude' in the RTF phraseology. It should be noted that the Obstacle Clearance Height is always given with reference to the aerodrome or threshold elevation.**

5.3.3 Pilots landing at aerodromes beneath Terminal Control Areas and Control Areas should use aerodrome QNH when flying below the Transition Altitude and beneath these Areas, except that the aerodrome QFE may be used when flying within the circuit. It may be assumed that for aerodromes within the boundary of the same TMA or CTA, differences in their QNH values are insignificant.

5.3.4 The threshold elevation of each instrument runway that is 7 ft or more below the aerodrome elevation is given at AD 2.12. The barometric pressure setting to be used for landing on such a runway will be passed by ATC as QNH . . . . threshold elevation . . . . , or QFE . . . . threshold . . . . .

Note: *At USAF operated aerodromes QFE is not used. All procedures below the Transition Altitude will be based on aerodrome QNH, and all vertical displacements given as altitudes. Aerodrome QFE will be available on request.*

5.4 **Missed Approach**

5.4.1 In the event of a missed approach, pilots may continue to use the altimeter setting selected for final approach, but reference to the vertical position of the aircraft exchanged in communication with ATC should be expressed in terms of altitude on aerodrome QNH, unless otherwise instructed by ATC.

5.5 **Flight Planning**

5.5.1 The levels at which a flight is to be conducted are to be specified in the flight plan:

a) In terms of flight level numbers for that part of the flight to be conducted at or above the transition level; and
b) in terms of altitudes (ft) for that part of the flight at or below the Transition Altitude.

5.5.2 The flight level or levels selected for a flight should ensure adequate terrain clearance at all points along the route to be flown,

should meet Air Traffic Service requirements and comply with the cruising levels at ENR 1.7, paragraph 6.1, where applicable.

5.5.3 The information required to determine the lowest flight level to ensure adequate terrain clearance may be obtained from the appropriate Air Traffic Service Unit or Meteorological Office. A chart for converting QNH values to flight levels for this purpose is shown at ENR 1.7-5.

5.5.4 The Transition Altitude applicable to the aerodromes of departure and destination and for alternate aerodromes should be noted.

5.5.5 Flight levels are to be specified in the flight plan by number and not in terms of ft as is the case with altitudes.

5.5.6 When flight plans are filed for IFR flights above 3000 FT AMSL outside Controlled Airspace in the UK, the cruising level must be selected from the appropriate table at paragraph 6.1.

6 Tables of Cruising Levels

6.1 The cruising levels to be observed when so required are as follows:

Within Controlled Airspace in areas where, on the basis of regional air navigation agreement and in accordance with conditions specified therein, a vertical separation minimum (VSM) of 1000 FT (300 M) is applied between FL 290 and FL 410 inclusive (†);

Magnetic track°			
From 000 degrees to 179 degrees		**From 180 degrees to 359 degrees**	
IFR Flights	**VFR Flights**	**IFR Flights**	**VFR Flights**
Level	**Level**	**Level**	**Level**
1000 FT and above at intervals of 2000 FT. 41000 FT and above at intervals of 4000 FT.	Odd thousands plus 500 FT to 27500 FT (FL 275).	2000 FT and above at intervals of 2000 FT. 43000 FT and above at intervals of 4000 FT.	Even thousands plus 500 FT to 28500 FT (FL 285).

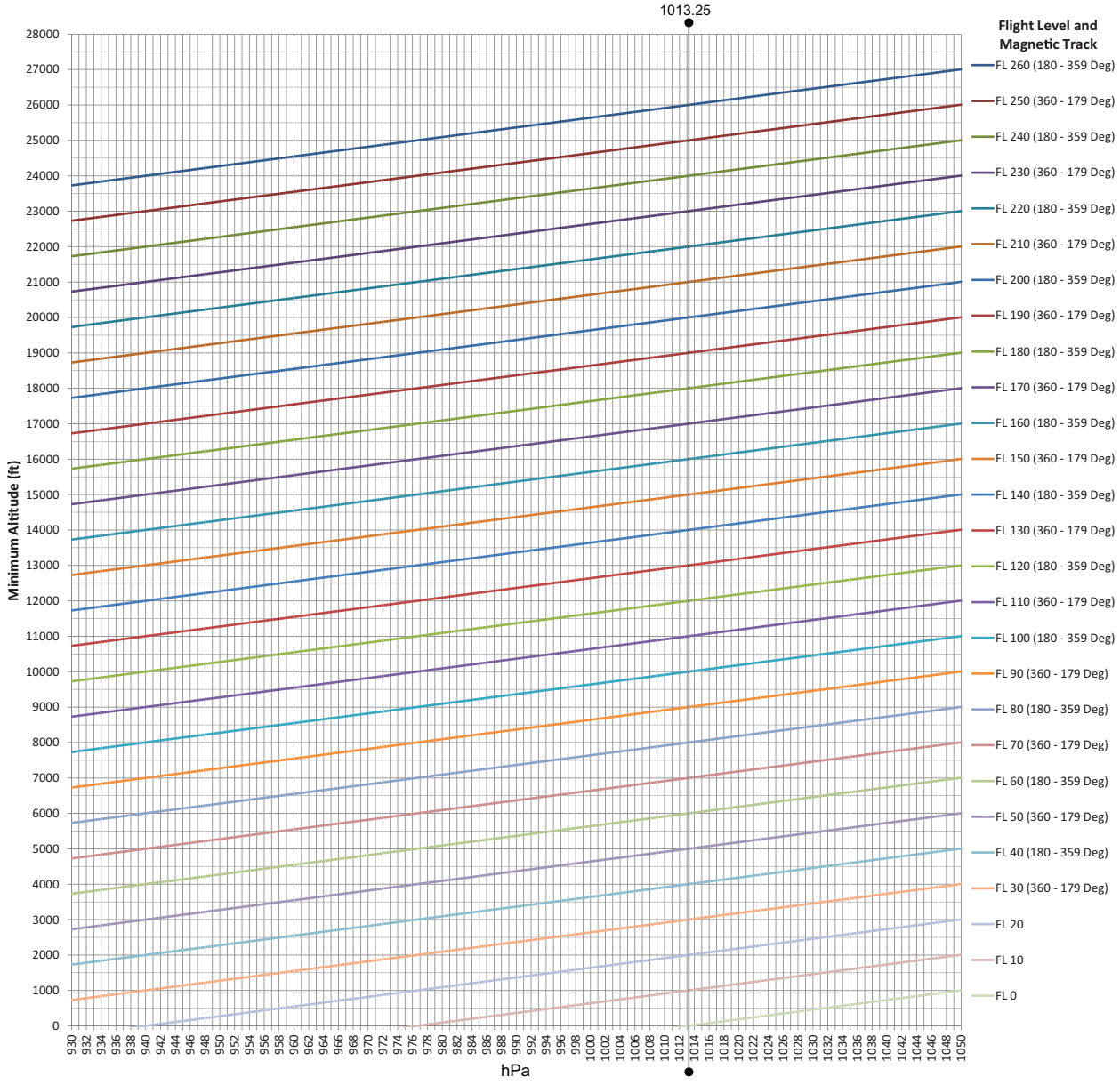
(†) Except when, on the basis of regional air navigation agreements, a modified table of cruising levels based on a nominal vertical separation minimum of 300 M (1000 FT) is prescribed for use, under specified conditions, by aircraft operating above FL 410 within designated portions of the airspace.

Note: *VFR flight by civil aircraft above FL 195 shall not be permitted unless it has been accorded specific arrangements by the appropriate ATS authority. VFR flight shall only be authorised:*

i. In reserved airspace;
ii. Outside reserved airspace up to FL 285, and then only when authorised in accordance with the procedures detailed for Non-Standard Flights in Controlled Airspace. See ENR 1.1 paragraph 4.1.9.

ENR 1.7 ALTIMETER SETTING PROCEDURES (continued)

FLIGHT LEVEL GRAPH



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ENR 1.8 REGIONAL SUPPLEMENTARY PROCEDURES

(DOC 7030)

Regional supplementary procedures are applied in accordance with ICAO Doc 7030/5 Regional Supplementary Procedures.

1 RVSM

1.1 The airspace within the London and Scottish UIRs between FL 290 and FL 410 inclusive is an element of EUR RVSM airspace. Furthermore, the airspace within the London and Scottish UIRs between FL 290 and FL 410 inclusive is designated for the purpose of transitioning non-RVSM approved aircraft operating to/from the North Atlantic Region.

1.2 Within this airspace, the vertical separation minimum shall be:

a) 300 M (1000 FT) between RVSM approved aircraft;
b) 600 M (2000 FT) between:

i. **non-RVSM approved State aircraft** and any other aircraft operating within RVSM airspace;
ii. all formation flights of State aircraft and any other aircraft operating within RVSM airspace; and
iii. non-RVSM approved aircraft and any other aircraft operating in the EUR RVSM airspace.

2 Aircraft Not Equipped With 8.33 kHz Capable Radios

2.1 State aircraft which are permanently exempted from the requirement of having radio equipment with the 8.33 kHz channel spacing capability shall be able to communicate on the remaining VHF 25 kHz frequencies or on UHF, where available. Before departure, and prior to embarking the aircraft, pilots of non-8.33 kHz equipped State aircraft shall contact ATC by telephone in order to confirm their non-equipped status, and where the initial Tower is 8.33 kHz State aircraft shall be provided with the appropriate 25 kHz VHF or UHF frequency.

2.2 Aircraft (other than State aircraft) flying VFR are explicitly exempted from compliance with the provisions of articles 4.5 and 5.4 of the Regulation (EU) Article 14 of (EU) (IR) No. 1079/2012 as described below;

a) The following ATS Units participating in the Lower Airspace Radar Service only:

Location	25 kHz Frequency (MHz)
FARNBOROUGH EAST	123.225
FARNBOROUGH NORTH	132.800
LOSSIEMOUTH	119.575
PLYMOUTH MIL EAST	124.150

Note: *The dates on which the conversions to 8.33 kHz will take place at these airports will be published in the appropriate AIRAC amendments.*

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ENR 1.9 AIR TRAFFIC FLOW MANAGEMENT AND AIRSPACE MANAGEMENT

1 Introduction

1.1 Air Traffic Flow Management is a service established with the objective of contributing to a safe, orderly and expeditious flow of air traffic by ensuring ACC capacity is utilised to the maximum extent possible and the traffic volume is compatible with the capacities declared by the appropriate ATC authority.

1.2 A Centralised Air Traffic Flow Management (ATFM) service is established within the ICAO (EUR) Region to optimise the use of air traffic system capacity. The Eurocontrol Network Management Directorate (NMD) in Brussels provides this service in conjunction with Flow Management Positions (FMPs) established at each ACC.

1.3 The NMD includes the Flow Management Division (FMD), responsible for the planning, co-ordination and implementation of ATFM measures within the FMD ATFM area and the Flight Data Operations Division (FDOD), responsible for collecting, maintaining and providing data on all flight operations and the air navigation infrastructure. FDOD includes the Integrated Flight Planning System (IFPS). A description of the ATFM area and information on the Network Operations Systems can be found in the Network Operations HANDBOOK.

2 ATFM Documentation

2.1 **ICAO European Region ATFM Procedures**

2.1.1 The general ATFM procedures which apply throughout the ICAO European Region are published in the ICAO Doc 7030, Regional Supplementary Procedures (Europe).

2.2 **Network Operations Technical Procedures and Information**

2.2.1 Specific Network Operations Technical procedures and information can be found in the Network Operations HANDBOOK published by the NMD and available from:

Post: Eurocontrol Library, Rue de la Fusée, 96, B-1130 Brussels, Belgium.
Phone: 00-32-2-729-3639/3023
Fax: 00-32-2-729-9109

or from the NMD website at:

Http: https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html

2.2.2 Basic Network Operations HANDBOOK sections include:

a) **General and Network Operations Systems:** this contains details of the NMD organisation, area of responsibility and a description of Network Operations systems;
b) **The ATFM Users Manual:** this is a self-contained users manual for aircraft operators and ATC units describing Network Operations procedures in the context of the NMD TACTICAL (TACT) and Computer Allocated Slot Allocation (CASA) systems;
c) **IFPS Users Manual:** this is a self-contained users manual describing operating procedures for flight plan filing in the IFPS area.

2.2.3 Only a limited selection of Network Operations Technical procedures are reproduced in the UK AIP. Reference should be made to the Network Operations HANDBOOK for comprehensive information and procedures.

3 ATFM Processes

3.1 The emphasis for ATFM measures is changing from regulation (delaying aircraft on the ground) towards capacity management. Only when no other option is available will a regulation be applied and delays issued (Slot Allocation).

3.2 Alternative ATFM measures include the re-routing of aircraft both strategically and tactically. Permanent Strategic routing requirements are published in the Route Availability Document (RAD). The RAD enables ATC to maximise capacity by defining restrictions that prevent disruption to the organised system of major traffic flows through congested areas.

3.3 In addition, routing 'scenarios' may be applied by the NMD to help resolve particular problems on particular days. These involve recommended or mandatory routes for particular groups of flights or selected individual flights. Re-routes for groups of flights will be published by the NMD in an AIM (Air Traffic Flow and Capacity Management Information Message) or ANM (ATFM Notification Message).

3.4 Re-routing may include restricting the level of an aircraft to keep it out of a particular ATC sector. This is known as level capping. Level capping scenarios are published for groups of aircraft.

3.5 A list of available re-routing and level capping scenarios is promulgated on the NMD website:

Http: https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html

3.6 Aircraft Operators (AOs) complying with a re-route or level capping requirement shall cancel any existing flight plan and re-file on the new route in accordance with the Replacement Flight Plan procedure published in the IFPS Users Manual section of the Network Operations HANDBOOK.

ENR 1.9 AIR TRAFFIC FLOW MANAGEMENT AND AIRSPACE MANAGEMENT (continued)

4 Slot Allocation Process

4.1 When no other option is available, a regulation will be applied by NMD and departure times will be issued in the form of a Calculated Take Off Time (CTOT). This is facilitated by Computer Assisted Slot Allocation (CASA) algorithm within the Enhanced Tactical Flow Management Systems (ETFMS).

4.2 The ETFMS is largely automated and functions from an Aircraft Operators point of view in a passive mode. There is, therefore, no requirement to request a slot as the act of filing a flight plan effectively constitutes a request.

4.3 Pre-planned or strategic ATFM regulations are promulgated by the NMD one day in advance by ATFM Notification Messages (ANM). All changes and tactical additions are promulgated by ANM revision messages.

4.4 For flights subject to a regulation, ETFMS will send a Slot Allocation Message (SAM) containing a CTOT at Estimated Off- Block Time (EOBT) -2 hours. This will be sent to the aerodrome of departure as well as the Aircraft Operator via AFTN or SITA.

4.5 Revisions to, or cancellations of, the last issued CTOT may be initiated by FMD, the Aircraft Operator, or the FMP/ATC unit on behalf of the AO. AOs requiring assistance should contact either the FMD Central Flow HELPDESK (Tel: 00-32-2-745-1901) or the UK FMP (see paragraph 6.3).

4.6 All CTOT revisions or cancellations are to be made using the ATFM message exchange procedures described in the Network Operations HANDBOOK.

4.7 Full details of the Slot Allocation Process are published in the ATFM Users Manual section of the Network Operations HANDBOOK.

5 Flight Planning

5.1 The ATFM rules for flight planning, as defined in ICAO Doc 7030, are:

a) For flights likely to be subject to ATFM measures Aircraft Operators shall submit Flight Plans to IFPS at least 3 hours before the EOBT;
b) AOs filing flight plans for flights within the NMD ATFM area or from within the ATFM adjacent area and entering the ATFM area shall assume their flight is subject to ATFM measures and subject to the requirement to submit a flight plan at least 3 hours before EOBT;
c) AOs should be aware that late filing of a flight plan may lead to a disproportionate delay;
d) Full details of flight planning requirements within the NMD ATFM area are included in the NMD ATFM Users Manual;
e) It is also important that the EOBT of a flight is as accurate as possible. It is a European requirement that all controlled flights departing, arriving or overflying Europe subject to a change in an EOBT of more than + or - 15 minutes shall notify the change to the NMD through IFPS. Modification procedures to enable Aircraft Operators to meet this requirement are described below.

5.2 In all cases, it is in the best interest of Aircraft Operators to initiate prompt revisions or cancellations, thus permitting the system to maximise use of available capacity and minimise delay. The later the revision is made the greater the probability of a delay .

5.3 The correct application of the STS/ATFMX procedure will ensure that approved flights are not unnecessarily delayed. (See paragraph 12 for details of the ATFM exemption procedures).

5.4 **Jet aircraft with a total sector length exceeding 220 NM**

5.4.1 In order to reduce complexity in the London Area Control (Swanwick) airspace, and thus provide greater capacity for all airspace users, the following flight planning restriction applies to all aircraft operators filing flight plans, repetitive flight plans and subsequent change messages for jet aircraft planning to operate in UK airspace.

5.4.2 Where the total sector length (including any portion outside the London/Scottish UIR/ FIR) exceeds 220 NM operators are to file a requested flight level for the entire route at FL 250 or above unless prior approval has been given by the UK FMP.

5.4.3 Requests for such approval are to be made to the UK FMP on 00-44-(0)1489-588150.

6 UK FMP Tactical Operations

6.1 The Network Manager (NM) at the UK FMP is responsible for the day to day monitoring, planning and co-ordination of all ATFM measures affecting traffic entering, leaving, overflying or remaining within the UK. The FMP is responsible for all co-ordination between ATC and the FMD and for providing ATFM support to Aircraft Operators.

6.2 The Network Management Specialist (NMS) is responsible to the Network Manager for monitoring delays and FMD regulations to optimise traffic flow through UK sectors. The NMS will also undertake message exchanges with the FMD on behalf of ATC or Aircraft Operators when required.

ENR 1.9 AIR TRAFFIC FLOW MANAGEMENT AND AIRSPACE MANAGEMENT (continued)

6.3 **Responsibilities of the FMP**

6.3.1 The UK has established a single H24 FMP to provide liaison between UK ATC and the FMD as shown in the table below:

FMP	Location	Area of Responsibility	ACC Served
UK FMP	London Area Control (Swanwick)	London and Scottish FIRs/UIRs Shanwick OCA	London Control (Swanwick) Scottish and Oceanic AC (Prestwick)

6.3.2 Operational ATFM enquires should normally be addressed to the UK FMP as shown in the table below:

FMP	Telephone	Fax	AFTN	SITA
UK FMP	**Flowline:** 01489-588150 **ATC use only:** Primary point of contact: Network Management Specialist: ATOTN 7-500-5030 PSTN: 01489-612427 Secondary point of contact: Network Manager: ATOTN 7-500-5027	01489-612437	EGTTZDZX	SOUSCXH
CEU Brussels	**Hot Position:** 00-32-2-745-1910	00-32-2-729-9028	EBBDCEUW	BRUEC7X

6.4 **General ATFM Enquiries**

Post: Head of Network Planning and Interface, Box 23, London Area Control (Swanwick), Sopwith Way, Swanwick, Hampshire SO31 7AY
Phone: 01489-612426
AFS: EGTTZDZX
Email: robert.pearson@nats.co.uk

7 Responsibilities of Aircraft Operators

7.1 Aircraft Operators shall inform themselves of and adhere to:

a) General ATFM procedures including flight plan filing and message exchange requirements;
b) strategic ATFM measures (including Route Availability Document (RAD));
c) current ATFM measures (including specific measures applicable on the day of operation, as promulgated by ANM or Flight Suspension (FLS) messages);
d) departure slots (CTOTs) issued by the FMD and procedures related to changes to CTOTs;
e) The NMD requirement for the modification or delay of EOBT. This is particularly important with the progressive implementation of NMD Flight Activation Monitoring (FAM) whereby flights not notified as being airborne within 30 minutes of the notified ETOT or CTOT will receive a flight suspension message;
f) the sole responsibility to obtain a new CTOT if there is no RTF contact with the TWR at CTOT;
g) the correct procedure to be followed to obtain approval for the use of STS/ATFMX.

7.2 In order to comply with a CTOT, Aircraft Operators need to plan the departure of a flight so that the aircraft will be ready for start up in sufficient time to comply with a CTOT taking into account the taxi time shown in the Slot Allocation Message (SAM). A slot window is available to ATC to optimise the departure sequence. This is not for use by AOs who should plan an EOBT consistent with the CTOT.

7.3 Where a flight departs from an aerodrome with an ATSU, the Aircraft Operator or pilot should obtain information, prior to start up from ATS as to whether a CTOT or FLS affects their flight.

7.4 Where a flight departs from an aerodrome without an ATSU, or when the FPL has been filed with a Parent Unit, it is the Aircraft Operator or pilot's responsibility to determine whether a CTOT or FLS affects their flight. In this case, the Aircraft Operator or pilot should contact the NMD or FMP before the aircraft departs.

8 Responsibilities of UK Air Traffic Services

8.1 NATS Ltd provides a UK Flow Management Position at London Area Control (Swanwick) to liaise between ATC, Aircraft Operators and the FMD.

8.2 ATC have the following responsibilities:

a) ATC is responsible for departure slot monitoring at departure aerodromes. The exact procedures to be followed will depend on the way that ATS is organised at each aerodrome;
b) ATC units responsible for departure slot monitoring shall be provided with the necessary information concerning the restrictions in force and slots allocated;

c) ATC shall ensure that an ATFM slot, if applicable, is included as part of the ATC clearance;
d) ATC shall take account of an applicable slot or flight suspension when a clearance is issued;
e) ATC shall provide all possible assistance to Aircraft Operators to meet a CTOT or to co-ordinate a revised CTOT;
f) ATC may deny start up clearance to flights unable to meet their slots until co-ordination with the FMP/FMD has been effected and a revised CTOT issued.

8.3 ATC is also responsible for monitoring flights compliance with departure slots (CTOTs) issued by the FMD as detailed in the ATFM Handbook. A slot window of -5 to +10 minutes is available to ATC to optimise the departure sequence.

8.4 In accordance with the provision of the Regional Supplementary Procedures, Europe (ICAO Doc 7030), flights which do not adhere to their slot shall be denied start-up clearance. However, ATC shall make all efforts to enable departing flights to comply with the slot. ATC shall liaise with the UK FMP to co-ordinate extensions to CTOTs.

8.5 With the progressive introduction of the Enhanced Tactical Flight Management System (ETFMS) and Flight Activation Monitoring (FAM), flights that are not notified as being airborne within 30 minutes of the notified ETOT or CTOT will receive a Flight Suspension (FLS) message. If a flight is suspended during the taxiing phase, then ATC is responsible for sending a DLA message. (Further details on ETFMS and FAM can be found at paragraph 11).

8.6 **ATC assistance to Aircraft Operators**

8.6.1 UK aerodromes may be able to assist Aircraft Operators in message exchange with the NMD, provided that the pilot is in RTF contact with the TWR and if:

a) it is a maximum of 30 mins prior to current CTOT; and
b) the revision to the CTOT is for no more than 30 minutes.

Note 1: *The TWR may co-ordinate message action on behalf of the Aircraft Operator or contact the UK FMP.*

Note 2: *Departures from the Jersey Zone should contact either the UK or Brest FMP according to the route of the flight after departure.*

8.6.2 If there is no RTF contact with the TWR at CTOT, the Aircraft Operator/Handling Agent will be solely responsible for obtaining a new CTOT.

9 Inbound Flow Management

9.1 In congested terminal areas serving busy airports, holding can often occur at short notice through the need for the tactical integration of arrival traffic flows to achieve optimum airspace and runway utilisation.

9.2 In the United Kingdom, Area Control Centres (ACC) will not issue Expected Approach Times (EAT) to aircraft when the terminal area delay is likely to be less than 20 minutes.

9.3 Where radar sequencing of traffic from the appropriate terminal holding facility is in operation, Approach Control will not normally calculate or issue EATs to aircraft when the delay is expected to be less than 20 minutes.

9.4 If a pilot requests information on the expected delay they will be given a general indication of the delay, eg 'Delay less than 20 minutes', based on the best information available to the controller at that time.

9.5 Additionally, for London Gatwick, London Heathrow, London Stansted and London Luton arrivals, when London TMA inbound delays are likely to exceed 20 minutes, inbound aircraft will be given a general statement concerning the anticipated delay based on the best information available to the controller at the time. Subsequently, when the aircraft is within 20 minutes of its original ETA for the appropriate terminal holding facility, an EAT will be issued. London Area Control (Swanwick) will endeavour to frequently update this data to ensure that the information provided to pilots is as accurate as possible. These procedures will remain applicable when ground equipment unserviceability or traffic demand requires the use of an alternative to the main holding facility.

9.6 Operators should consider the carriage of an extra fuel allowance when the flight includes operation in a congested traffic area or where ATC delays are likely.

10 Modification of Estimated Off Block Time (EOBT)

10.1 It is a requirement for both ATC and ATFM that the EOBT of a flight shall be an accurate EOBT. This applies to all flights, whether subject to ATFM or not. Any change to the EOBT of more than 15 minutes (+ or -) for any IFR flight within the NMD Initial Flight Planning Zone (IFPZ) (see the IFPS users manual for details) shall be communicated to IFPS.

10.2 An Aircraft Operator (AO) should not modify the EOBT to a later time simply as a result of an ATFM delay. When an AO submits an amendment message (eg DLA or CHG) to IFPS, they must always give as an EOBT the earliest EOBT they may comply with. This time is not directly related to the CTOT provided in the Slot Allocation Message (SAM) or Slot Revision Message (SRM). The EOBT should always reflect the time the AO wants to be off-blocks. The EOBT should always be changed if the original EOBT established by the AO cannot be met by the AO for reasons other than ATFM delay.

10.3 There are two categories of controlled flights covered by this procedure. Those that have an ATFM Calculated Take-Off Time

(CTOT), issued by the NMD, and those that do not. AOs should not modify the EOBT simply as a result of an ATFM delay.

10.4 The procedure to be followed to modify the EOBT of a flight that has not received an ATFM CTOT is as follows:

a) To amend the EOBT to a **later** time, a DLA or CHG message shall be sent to IFPS;
b) To amend the EOBT to an earlier time, a CNL message must be sent to IFPS followed five minutes later by a new flight plan with new EOBT indicated.

Note: *The replacement flight plan procedure shall not be used.*

10.5 The procedure to be followed to modify the EOBT of a flight that has received an ATFM CTOT is as follows:

a) If the EOBT established by the AO has changed or is no longer realistic for reasons other than ATFM then the following procedure shall be used:

i. If a flight has a CTOT that cannot be met, then the AO shall send a DLA message to IFPS with the new EOBT of the flight. This may trigger a revised CTOT;
ii. If a flight has a CTOT with some delay and the AO is aware that the original EOBT cannot be met but the existing CTOT is acceptable, then a message shall be sent to IFPS with the new EOBT of the flight. However, in order not to trigger a new CTOT, the following formula must be used:

Take the current CTOT minus the taxi-time, minus 10 minutes. The new EOBT must not be after this time.

Example:

Original EOBT 1000, CTOT 1100, but the flight cannot go off blocks until 1025. The taxi-time is say 15 minutes. 1100 minus 15, minus 10 = 1035. The new EOBT must be earlier than 1035. If it is, then this action will not trigger a revised CTOT.

However, as Network Operations systems are continuously seeking to give zero delay, the CTOT of the flight will never be earlier than the new EOBT plus the taxi-time.

b) If a flight has had a CTOT and now receives a Slot Cancellation Message (SLC), but the original EOBT can no longer be met, then the AO shall communicate the new EOBT by use of a DLA message. ATC/ATFM will now have the 'true' EOBT of the flight.

10.6 Some states outside the NMD area of responsibility still require AOs to update the EOBT, regardless of why the flight's original EOBT may have changed. AOs should bear in mind the formula explained above when doing this. Where it is known that ATC send Departure messages (DEP) for all flights, then this DEP message will suffice.

10.7 It is not possible to amend (via CHG or DLA) the EOBT to an earlier time than the EOBT given in the flight plan. However, if a flight is ready to go off blocks earlier than the current EOBT, then there are two options available:

a) The AOs may ask the local ATC Unit (TWR), or the FMP, to send a Ready (REA) message. In this case, the flight is considered as 'ready to depart' from the filing time of the REA message; or
b) The AOs may contact the Central Flow Help Desk who has the ability to input an earlier EOBT into the TACT system (max - 30 minutes). Each case is treated on its merits and may be refused if it is considered that the request is not justified.

10.8 Whilst the ultimate responsibility for the sending of flight plan related messages, particularly those applicable to the management of EOBT, lies with the operator, it is acceptable for this to be carried out by an ATS unit suitably equipped to do so if such a request is made by the operator. For the purposes of this statement the 'operator' can include the pilot-in-command of the affected flight.

11 Enhanced Tactical Flow Management System (ETFMS) and Flight Activation Monitoring (FAM)

11.1 The development of the Enhanced Tactical Flow Management System (ETFMS), enables the NMD to receive live time data on departing flights using Flight Activation Monitoring (FAM). This data is provided by the ATC systems and is derived from ATC radar information and flight plan messaging. There are advantages with improved knowledge of the traffic situation and this further assists ATFM tactical planning. FAM is being progressively introduced across the FMD ATFM area.

11.2 Flight Activation Monitoring:

a) monitors flights which should have departed;
b) Takes action on these flights (through internal messaging to NMD) to update the take-off time in order to improve the forecast of traffic demand;
c) suspends flights after the designated time parameter (30 minutes after CTOT or ETOT), unless a message is received to confirm that the flight is airborne or delayed and;
d) informs AOs and ATC at the departure aerodrome of any flight suspensions enabling these agencies to react accordingly.

11.3 The expected benefits of FAM are:

a) to provide a better forecast of the actual and expected traffic situation;
b) to release slots 'occupied' by flights that have not yet departed;
c) to create an incentive for the AOs to update their flights promptly;
d) to improve traffic load assessment; and
e) to enable a more efficient use of the available and projected airspace capacity.

11.4 ETFMS expects flights to be airborne, based on the filed EOBT or the ATFM slot departure time issued by the NMD (CTOT). Those flights that are not notified as being airborne through ATC update messages within 30 minutes of the notified ETOT or CTOT time

ENR 1.9 AIR TRAFFIC FLOW MANAGEMENT AND AIRSPACE MANAGEMENT (continued)

will receive a Flight Suspension (FLS) message from ETFMS and will remain suspended until signal action is taken. The comment **'NOT REPORTED AS AIRBORNE'** will be identified in the text.

11.5 Unless an aircraft is taxiing it is the responsibility of the AO to send a DLA message. If a flight is suspended during the taxiing phase then ATC will be responsible for sending a DLA message.

11.6 A flight is considered to be active in ETFMS (TACT) following reception of any of the following messages:

DEP	-	Departure Message
FSA	-	Flight System Activation Message
CPR	-	Correlated Position Report
APL	-	ATC Flight Plan
ACH	-	ATC Flight Plan Change
APR	-	Aircraft Operator Position Report
ARR	-	Arrival Message

11.7 Flights that have been suspended by FAM, will receive a FLS message with the comment 'Not reported as airborne'. An example of FLS message sent due to FAM:

- TITLE **FLS**
- ARCID ABC1234
- ADEP LPPR
- ADES LFPG
- EOBD 020514
- EOBT 0500
- COMMENT **NOT REPORTED AS AIRBORNE**
- TAXITIME 0012

11.8 Any changes of EOBT for both regulated and non-regulated flights must be notified only by means of a DLA/CHG message to IFPS.

11.9 Flight Plan originators are reminded that all changes to EOBT of more than 15 minutes must be notified to IFPS. This will become increasingly more important to prevent Flight Suspension (FLS) messages being activated. UK AIP ENR 1.10 refers.

11.10 **Flight Suspension - Procedures**

11.10.1 When the AO and ATC at the aerodrome of departure receive an FLS due to the process, as described earlier, the following cases may occur:

a) The flight is still effectively on the ground either on stand or already taxiing:

i. The AO (aircraft on stand) or ATC (aircraft already taxiing) should ensure that the flight plan is re-initiated by sending a DLA message with a correct EOBT.

ETFMS (TACT) will then respond with a De-Suspension Message (DES) or Slot Revision Message (SRM) depending whether the flight is non-regulated or regulated, respectively.

ii. ATC should not let the aircraft start-up/depart before such a message (DES or SRM) is received.

Note: *All effort shall be made by ATC to ensure that all flights, regulated or not, comply with their ETOT/CTOTs, taking into account the respective taxiing/holding/sequencing requirements. Any exception to permit aircraft to continue for departure, following taxi delays caused by airfield congestion, is not applicable unless the aircraft can depart and be airborne within the time frame ETOT/CTOT+30 minutes.*

b) The flight is already flying:

i. No action is needed from the AO or from the Tower of departure. The flight will automatically be de-suspended at the reception of one of the above messages (DEP, CPR, FSA etc).

Note: *The continuous re-occurrence of the above may mean a lack of proper information sent to NMD. One possible solution would be a requirement to initiate DEP messages sent by the departure aerodrome but this will be determined by the NMD through the national flow management office. In the UK this will be the NATS Area Control Service Traffic Management Organisation situated at London Area Control (Swanwick).*

11.11 **Area of Application**

11.11.1 All users will be notified by NMD/FMD by means of Air Traffic Flow and Capacity Management Information Message (AIM) whenever an area becomes FAM enabled.

11.11.2 The effect of these areas being FAM-enabled means that all flights that are departing from or arriving at these areas will be affected by Flight Activation Monitoring.

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11.11.3 For flights departing from these areas and going to any other area, FAM will start at ETOT/CTOT.

11.11.4 For flights departing from non FAM-enabled and landing at aerodromes in FAM-enabled areas, the process will rely on the entry point of the first safely covered CPR-covered area. FLS may be sent to these flights landing inside, although departing outside.

12 ATFM Exemption Procedures

12.1 Since the introduction of the NMD it has been possible for Flight Plan (FPL) originators to obtain exemptions from ATFM restrictions for certain flights through the use of STS/indicators in FPLs.

12.2 The following principles apply:

a) The insertion of a STS/… indicator in Field 18 of a Flight Plan will identify that a flight may require special handling. This indicator is for use by all parties that may have to handle the flight;
b) The current list of STS indicators recognised for ATFM purposes comprises STS/HEAD, STS/SAR, STS/MEDEVAC, STS/FFR, STS/STATE, STS/HUM, STS/HOSP;
c) Additionally, STS/ATFMX may be used if that particular flight has received specific approval from the Office established by the National Administration for processing such requests.

It should be noted that:

i. Only STS/HEAD, STS/SAR, STS/MEDEVAC, STS/FFR and STS/ATFMX qualify for automatic exemption from ATFM measures;
ii. The indicator STS/ATFMX is only used for ATFM purposes. It is subject to strict application of the rules of usage and is additional to any other special handling notification that may be required to be shown for ATC purposes as STS/… in Field 18 of the flight plan.

12.3 Further information on the use of STS/indicators for ATFM purposes may be found in the ATFM Users Manual published by the NMD.

12.4 **Rules of Application for the use of STS/ATFMX**

12.4.1 The following Rules of Application shall be applicable to all flights seeking to gain exemption from ATFM measures within the area of responsibility of the NMD. It is intended to ensure that flights, which by the nature of their mission, cannot under any circumstances be delayed due to ATFM. It is based on the ICAO SARPS (ICAO EUR DOC 003, ATFM-HB/2) and existing material in the Network Operations HANDBOOK.

12.4.2 It should be noted by all users that any flight which obtains exemption, and which may have otherwise been delayed, will have that delay passed on to other flights. It is essential, therefore, that use of the exemption facility shall be properly controlled and monitored so that genuine flight priorities may continue to operate without ATFM delay.

12.4.3 Any flight meeting the criteria established to warrant exemption status may, provided the necessary approval procedure has been followed and the flight duly authorised by the Office established by the National Administration for processing such requests, use STS/ATFMX for that flight and that flight only.

12.4.4 Each flight shall require specific approval to use STS/ATFMX.

12.5 **Criteria for Determining the Application of STS/ATFMX for an Individual Flight**

12.5.1 **STS/HOSP or STS/HUM:**

a) The NMD criteria affords ATFM exemption for flights where the safety of human life is involved. That is, if the flight does not operate without delay a human life or lives may be lost. Such flights shall require specific medical/UNHCR authorisation to support their request.
b) Following consultation with Air Ambulance operators in the UK, the CAA has determined that the term ‘safety of human life’ is not always easy to define and, indeed, there are other urgent medical flights that also require to operate without delay. Such flights may include patients with threat of loss of limbs, transfer of human organs and the transportation of medical teams.
c) Additionally, the CAA has agreed that positioning flights may also warrant exemption when they are required to undertake an urgent medical flight from another aerodrome.
d) If the flight fulfils the requirements, as stated above, then the flight may apply for approval to use STS/ATFMX through the procedure specified in paragraph 12.7.

12.5.2 **STS/STATE:**

a) The NMD guidelines recommend that ATFM exemption may only be approved for flights if the person or persons on board a flight on State business are of such importance that the flight cannot accept any delay. Additionally, approval may be given if the mission of the flight is being carried out by, or on behalf of, the State and is of such importance that any delay will jeopardise the success of the mission.
b) If the flight fulfils the requirements, as stated above, then the flight may apply for approval to use STS/ATFMX through the procedure specified in paragraph 12.7.

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12.6 **Flight Priority**

12.6.1 It should be noted that the use of STS/ATFMX does not itself afford the flight any additional flight priority status for special handling by ATS. It is the other STS/indicators that indicate the need for special handling by ATS.

12.6.2 A STS/STATE flight may be afforded appropriate UK ATS handling priority because of the importance of the mission, or the person on board the flight.

12.6.3 The combined use of STS/HOSP with STS/ATFMX will indicate to ATS that the flight is required to operate without delay and so justify exemption from ATFM. Such flights may be afforded additional priority that the traffic situation allows.

12.6.4 Non-urgent flights will continue to use STS/HOSP indicating that special handling is required. Additional information may be included in item 18 of the FPL using RMK/ or the pilot may advise ATS exactly what special handling is required.

12.6.5 However, if any STS/HOSP flight experiences a medical emergency in flight, then the appropriate radiotelephony message(s) should be used to express the urgency of the condition to ATS.

12.6.6 It should be noted that the procedures detailed here are for ATC Flow Management purposes. The table of flight priorities for UK ATC purposes, as detailed in CAP 493 Manual of Air Traffic Services (MATS) Part 1, is not affected.

12.7 **UK Procedure for the Approval of use of STS/ATFMX**

12.7.1 The UK has established two processes for the approval of certain qualifying flights to use STS/ATFMX:

a) a **Manual Approval** process applies to AOs who make irregular flights and are able to provide prior notice for approval;
b) a **Self Regulation Approval** process applies to AOs who are regularly engaged in Air Ambulance flights and, by the urgent nature of the flight, may not have sufficient time to undertake the Manual Approval process.

12.8 **Manual Approval Process**

12.8.1 The operator of a flight seeking an individual approval to insert the indicator STS/ATFMX in Item 18 of a flight plan, for a flight departing from an aerodrome within the UK, shall obtain prior permission from the relevant authority, when practicable, at least 24 hours and not more than 48 hours in advance of the flight.

12.8.2 The attached pro-forma to CAP 694 The UK Flight Planning Guide at Annex D must be completed and faxed with appropriate supporting documentation.

Note: *Copies of CAP 694 can be downloaded from the UK CAA website:*

Http: http://www.caa.co.uk/CAP694

12.8.3 Application for approval of STS/HOSP, STS/HUM or STS/STATE flights to use STS/ATFMX should normally be made to Airspace Regulation, Safety and Airspace Regulation Group (SARG), between the hours 0830-1630 (0730-1530), Monday to Friday, excluding Public Holidays, as follows:

Phone: 01293-983880
Email: arops@caa.co.uk

12.8.4 Outside the hours notified in paragraph 12.8.3, application for approval for STS/HOSP or STS/HUM only should be made to the UK FMP FLOLINE, as follows:

Phone: 01489-588150
Fax: 01489-612437

12.9 **Self Regulation Approval Process**

12.9.1 In recognition of the specific requirements of Air Ambulance flights, the CAA has established a process by which an AO can determine whether their own flights meet the requirements for ATFM exemption. Subject to compliance with a set of formal conditions, the CAA may grant AOs an Approval to apply STS/ATFMX to specific flights meeting the conditions of the Approval.

12.9.2 AOs wishing to apply for CAA Approval for Self Regulation should contact:

Post: Airspace Regulation, CAA, 1 NE Aviation House, Beehive Ring Road, Crawley, West Sussex, RH6 0YR.
Email: airspace@caa.co.uk

12.10 **Compliance Monitoring**

12.10.1 The NMD provides the CAA with a list of all flights departing the UK using STS/ATFMX, on a monthly basis. The CAA undertakes to verify that all such flights operated with an appropriate approval for ATFM exemption.

12.10.2 With regard to those AOs that have been granted an Approval for Self Regulation, the CAA will, from time to time, conduct an audit of randomly selected flights and will require proof that the flights met the requirements of the NMD and the conditions of the CAA

ENR 1.9 AIR TRAFFIC FLOW MANAGEMENT AND AIRSPACE MANAGEMENT (continued)

Approval.

12.10.3 Additionally, the AO will be required to retain, and supply on demand, all appropriate documentation to support the use of STS/ ATFMX.

13 Provision of Information on Events Affecting Air Traffic Movements

13.1 Airport Operators at all UK airports (including military airfields) are to provide, at the earliest opportunity, but at least 14 days in advance, details of any event that may lead to an hourly increase in demand, eg football match, trade fair, European Minister meeting, etc.

Note: *The above activity is in addition to any ATC to ATC co-ordination processes.*

13.2 The following information is required:

a) Name of airport;
b) airport contact;
c) ATC contact;
d) nature of the event;
e) the expected nature of increase in demand.

13.3 Event information is to be sent to:

Email: ATFMEventsPlanner@nats.co.uk
Fax: 01489-612497

13.4 Following the provision of the notice of an event, NATS Traffic Management Operations will assess the impact and co-ordinate any necessary ATFCM response.

14 NATS Traffic Regeneration Plan

14.1 In the event of prolonged and significant loss of capacity affecting all or part of the UK airspace, a UK Traffic Regeneration Plan will be implemented. This plan is intended to provide a framework for the management of demand and capacity during such an event.

14.2 The UK Traffic Regeneration Plan includes the following measures which will be implemented in order to make maximum use of the available airspace capacity:

a) UK FMP will declare the capacity available and a proportional reduction in the number of flights permitted by individual operators may be applied;
b) All operators intending to fly within the affected airspace must file a flight plan for flights that they intend to operate in accordance with a flight list approved by UK FMP and NMD. Any flights not on the approved list will be rejected through IFPS. This flight list will be requested by UK FMP once the available capacity has been determined. Procedure will be published by NOTAM and communication with airspace users will be managed via the NATS Air Traffic Incident Coordination Communication Cell (ATICCC);
c) Additionally, UK FMP may implement mandatory re-route scenarios to increase the demand accommodated.

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ENR 1.10 FLIGHT PLANNING

1 General Procedures

1.1 Reference Documents

a) ICAO Annex 2, Chapter 3.3.
b) ICAO Doc 4444 Chapter 4, Chapter 11, Chapter 16 and Appendix 2.
c) ICAO Doc 7030/5 Regional Supplementary Procedures, Part EUR and Part NAT.
d) Network Operations HANDBOOK.
e) Integrated Initial Flight Plan Processing System (IFPS) Users Manual (part of the Network Operations HANDBOOK).
f) CAP 694 The UK Flight Planning Guide.
g) North Atlantic Operations and Airspace Manual.
h) CAP 493 Manual of Air Traffic Services (MATS) Part 1.
i) AFPEx Help Guide.
j) Standardised European Rules of the Air (SERA).

1.2 **Flight Rules and Categories of FPL**

1.2.1 Subject to the mandatory requirements of airspace classification shown in paragraph 1.3, a pilot may file a **VFR** or **IFR** Flight Plan for any flight. When flying in different types of airspace, a pilot may indicate if the aircraft will fly VFR first, then change to IFR; or vice versa.

1.2.2 There are three categories of FPL:

a) **Full** Flight Plans - the information filed on the FPL Form (CA48/RAF F2919);
b) **Repetitive** Flight Plans - see paragraph 3.7;
c) **Abbreviated** Flight Plans - the limited information required to obtain a clearance for a portion of flight, filed either by telephone prior to take-off or by radiotelephony (RTF) when airborne. See paragraph 1.4.

Note: *The destination aerodrome will be advised of the flight only if the flight plan information covers the whole route of the flight.*

1.3 **Submission of a Flight Plan**

1.3.1 Information relative to an intended flight or portion of a flight, to be provided to air traffic services units, shall be in the form of a flight plan. The term 'flight plan' is used to mean variously full information on all items comprised in the flight plan description covering the whole route of a flight or limited information required, inter alia, when the purpose is to obtain a clearance for a minor portion of a flight such as to cross an airway or to take-off from/land at a controlled aerodrome.

Note: *An Abbreviated Flight Plan fulfils the historical requirement for 'Booking Out' which is no longer applicable.*

1.3.2 A flight plan shall be submitted prior to operating:

a) any flight or portion thereof to be provided with an air traffic control service;
b) any IFR flight within advisory airspace;
c) any flight within or into areas, or along routes designated by the competent authority, to facilitate the provision of flight information, alerting and search and rescue services;
d) any flight within or into areas, or along routes designated by the competent authority to facilitate coordination with appropriate military units or with air traffic services units in adjacent States in order to avoid the possible need for interception for the purpose of identification;
e) any flight across international borders, unless otherwise prescribed by the States concerned. In the UK this requirement includes any flight that will cross the combined London and Scottish FIR/UIR boundary;
f) any flight planned to operate at night if leaving the vicinity of an aerodrome.

1.3.3 A flight plan shall be submitted before departure to an air traffic services reporting office or, during flight, transmitted to the appropriate air traffic services unit or air-ground control radio station unless arrangements have been made for the submission of repetitive flight plans.

Note: *In the UK, where no air traffic services reporting offices have been established, the flight plan should be submitted to the ATS unit performing the functions of such an office, or direct to the Integrated Initial Flight Plan Processing System (IFPS).*

1.3.4 Unless a shorter period of time has been prescribed by the Competent Authority for domestic VFR flights, a flight plan for any flight planned to operate across international borders or to be provided with an air traffic control service or an air traffic advisory service shall be submitted at least 60 minutes before departure or, if submitted during flight, at a time that will ensure its receipt by the appropriate air traffic services unit at least 10 minutes before the aircraft is intended to reach:

a) the intended point of entry into a control area or advisory area; or
b) the point of crossing an airway or advisory route.

Note: *For submission parameters for flights subject to air traffic flow management (ATFM) and North Atlantic flights see paragraph 3.4.1.*

1.3.5 It is **advisable** to submit a flight plan (VFR or IFR) if the flight involves flying:

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a) Over the sea, more than 10 nm from the UK coastline;
b) over sparsely populated areas where search and rescue operations would be difficult;
c) into an area in which search and rescue operations are in progress. The flight plan should include the expected times of entering and leaving the area and the details must also be passed to the appropriate ACC. The ACC will notify the ARCC.

1.3.6 A flight plan **may** be submitted for any flight.

1.4 **Abbreviated Flight Plans**

1.4.1 An Abbreviated Flight Plan is the limited information required to obtain a clearance for a portion of flight, filed either by telephone prior to take-off or by radiotelephony (RTF) when airborne. This might apply in the case of a required clearance to fly in a Control Zone (CTR) or crossing an Airway. No flight plan form is submitted and the destination aerodrome will not be informed. An abbreviated flight plan transmitted in the air by radiotelephony for the crossing of controlled airspace or any other areas or routes designated by the competent authority normally contains as a minimum: call sign, aircraft type, point of entry, point of exit and level.

1.4.2 In the case of a departure from an aerodrome within a CTR an Abbreviated FPL may be sufficient to obtain clearance to depart the aerodrome and route to the appropriate CTR/CTA boundary. However, some aerodromes require aircraft to follow designated noise preferential routes which may be identified as Standard Departure Routes (SDRs) depending on the outbound track of the flight.

1.4.3 A Full flight plan must be filed if the pilot requires the destination aerodrome to be notified of the flight.

1.5 **Submission Time Parameters**

1.5.1 The general ICAO requirement is that FPLs should be filed on the ground at least 60 minutes before clearance to start-up or taxi is requested. The 'Estimated Off Block Time' (EOBT) is used as the planned departure time in flight planning, not the planned airborne time. Exceptionally, in cases where it is impossible to meet this requirement, pilots or Aircraft Operators (AOs) should give as much notice as possible, but never less than 30 minutes.

1.5.2 In order to comply with the requirements of the Integrated Initial Flight Plan Processing System (IFPS), FPLs for IFR flights should be filed a minimum of **60 minutes** before Estimated Off Block Time (EOBT) (see paragraph 3).

1.5.3 IFR flights on the North Atlantic and on routes subject to Air Traffic Flow Management, should be filed a minimum of 3 hours before EOBT (see paragraph 3).

1.5.4 The Date of Flight (DOF) must be included in Item 18 of the FPL for all flights planned for the following day or beyond.

Note: *IFPS will not accept FPLs submitted more than 120 hours in advance of the flight taking place.*

1.5.5 An Abbreviated or Full FPL can be filed on RTF when airborne with any ATSU but normally with the appropriate FIR controller. If the FPL contains an intention to enter Controlled Airspace or certain Control Zones/Control Areas, at least 10 minutes prior warning of entry must be given. In all cases, the message should start with the words 'I wish to file an airborne FPL'. However, the filing of Full FPLs on the RTF is to be discouraged due to the delay likely to be caused by controller workload and congestion on the frequency.

1.5.6 The requirements for the submission of a Repetitive FPL are detailed in paragraph 3.7.

1.6 **Mechanisms for Filing a FPL**

1.6.1 NATS provides the AFTN within the UK and in addition, an internet based service called 'flightplanningonline'. This internet service uses an application called AFPEx, which provides a gateway via the internet into the AFTN and allows pilots, Airline Operators, Flight Handlers or small aerodromes access to file their own flight plans and other related messages anywhere within the UK or abroad.

1.6.2 The following categories describe the method which should be adopted by each group to file a FPL within the UK:

a) Airline Operators, Flight Handlers and Aerodromes must use the AFTN or 'flightplanningonline';
b) GA pilots should use 'flightplanningonline'.

1.6.3 Foreign pilots and UK based GA pilots (who have no access to the internet) may Fax the FPL to the Parent AFTN Unit.

1.6.4 Applications for 'flightplanningonline' may be made via the website www.flightplanningonline.co.uk or through the following contacts. Approval is required from 'flightplanningonline' prior to connection to the AFPEx system.

AFPEx/Parent AFTN Unit	Telephone Number(s)	Fax/AFTN address/E-mail
24hr Helpdesk	01489-612792	01489-612793 EGGGYFAJ flightplanningonline@nats.co.uk

←

Note: *Applications for AFTN, refer to UK AIP GEN 3-4-2.*

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1.6.5 **Submitting a FPL through the Departure Aerodrome ATSU**

1.6.5.1 A written FPL, which is filed through the ATSU at the departure aerodrome, must be submitted on the FPL form CA48/RAF F2919. The local ATSU may assist in compiling FPLs and checking them. However, the ultimate responsibility for filing an accurate FPL rests with the pilot or AO.

1.6.6 **Submitting a FPL via 'flightplanningonline'**

1.6.6.1 FPL may be submitted through this system by account holders by using the on-line forms and technical assistance is available from the AFPEx Helpdesk. Responsibility for filing an accurate FPL still rests with the pilot.

1.6.7 **Submitting a FPL via Parent AFTN Unit**

1.6.7.1 A written, or preferably typewritten, FPL should be submitted to the Parent AFTN Unit for transmission over AFTN using Fax number 01489-612793.

1.6.7.2 A copy of the transmitted data will be faxed back to the pilot for checking. The checking for accuracy of the transmitted information is the responsibility of the pilot and if there are any discrepancies, contact the Helpdesk number in the table at paragraph 1.6.4.

1.7 **Addressing Flight Plans**

1.7.1 Increasingly the responsibility for originating the FPL and its associated messages is being delegated by ATC to airlines and AOs. In such instances the responsibility for completing all parts of the form, including the addressing, rests with them. Although the ultimate responsibility for filing an accurate FPL rests with the pilot or operator, those who file through 'flightplanningonline' will be given assistance by the AFPEx Helpdesk. Those who submit FPL by fax to the Parent AFTN Unit will still be responsible for completing all parts of the form. However, if they do not know the correct addresses then as a minimum they should indicate which countries their intended flight will be operating through.

1.7.2 The UK is a participating State in the Integrated Initial Flight Plan Processing System (IFPS). IFPS is the only system for the distribution of IFR General Air Traffic (GAT) flight plans and associated messages to Air Traffic Service Units (ATSUs) within the participating European States - the IFPS Zone. The roles and responsibilities of IFPS, with regard to addressing FPL, are detailed in paragraph 3.

1.7.2.1 Although IFPS handles IFR flight plans, it will not process the VFR portions of any mixed VFR/IFR flight plan.

1.7.2.2 An incident involving a mixed IFR/VFR flight highlighted the importance of the FPL and all associated messages being correctly addressed, especially when departure or destination aerodromes are omitted.

Example:

An aircraft is planned to depart under VFR from an aerodrome in the UK with the intention of later joining controlled airspace flying under IFR. It is then planned to leave controlled airspace and proceed under VFR to a destination in France.

In this example, IFPS will process the IFR portion of the flight (notifying appropriate ATSUs along the route), but it will not distribute the flight plan information to either the departure or destination aerodromes, as they are included in the VFR portion of the FPL. Therefore, in order to ensure that all relevant ATSUs are included in the flight plan message distribution, pilots or Aircraft Operators should make certain that whenever a flight plan contains portions of the flight operated under VFR, in addition to IFR, the FPL must be addressed to:

- IFPS (EGZYIFPS);
- Aerodrome of departure;
- Aerodrome of destination;
- All FIRs that the flight will route through under VFR (in UK address to EGZYVFRP for Scottish FIR, EGGXZOZX for Shanwick/Oceanic FIR and/or EGZYVFRT for London FIR).

1.7.3 Additional VFR FPL addressing is detailed in paragraph 2.

1.7.4 Additional IFR FPL addressing is detailed in paragraph 3.

1.7.5 Further addressing information is available on the 'flightplanningonline' system, in UK AIP ENR 1.11, AFPEx Help Guide and in the 'Random FPL AFTN Address Book' available in electronic format at: www.nats.aero/ais (Links).

1.8 **Parent AFTN System**

1.8.1 The Parent AFTN Unit based at Swanwick ACC will provide a Faxing service to visiting foreign pilots and UK pilots who have no access to the internet as detailed in paragraph 1.6.7.

1.8.2 Where there is no ATSU at the departure aerodrome, the pilot is responsible for ensuring that the **departure time** is passed to the Parent AFTN Unit or AFPEx Helpdesk, so as to activate the FPL and to enable the DEP message to be sent to the appropriate addressees. Arrangements should be made for a 'responsible person' on the ground to telephone the departure time to the

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Helpdesk. Failure to pass the departure time will result in the FPL remaining inactive. Consequently, this could result in the destination aerodrome not being aware that the aircraft is airborne and any necessary alerting action may not then be taken.

1.8.3 Exceptionally, the Flight Information Region (FIR) Controller at the ACC will accept departure times on RTF from pilots who have departed from aerodromes where there is no ATSU, or it is outside the hours of operation. The pilot is to request the Controller to pass the departure time to the AFPEx Helpdesk. However, controller workload may cause a delay in forwarding such departure messages.

1.9 Action When the Destination Aerodrome has no ATSU or AFTN Link

1.9.1 If a pilot has filed a FPL to a destination that does not have an active ATSU, and is not connected to the AFTN, they are required to pass the ETA, prior to departure, to a 'responsible person' at the destination aerodrome. In the event of the aircraft failing to arrive at the destination aerodrome within 30 minutes of the notified ETA, the 'responsible person' must **immediately** advise the AFPEx Helpdesk in order that alerting action may be commenced by ATC.

1.9.2 The AFPEx Helpdesk will commence Overdue Action on behalf of a nominated 'responsible person', but will not act as the responsible person on behalf of the pilot. It is advisable to include contact details of the responsible person in Item 18 RMK/ of the FPL form for reference.

1.10 Flight Planning in Remote Areas

1.10.1 Introduction

1.10.1.1 Pilots may file a flight plan for any flight, but it is most advisable to file a FPL if flying over the sea more than 10 nm from the UK coast, or over sparsely populated areas where search and rescue operations may be difficult.

1.10.2 Flight Planning and Alerting Action

1.10.2.1 Filing a Full or Repetitive FPL makes the ATSU at the destination aerodrome aware of an inbound aircraft's planned flight details. Once the FPL DEP message has been received, the destination aerodrome calculates the aircraft's estimated time of arrival (ETA). If the aircraft fails to arrive or make communication, the ATSU will start overdue action 30 minutes after the calculated ETA. Preliminary action will be taken to confirm the flight plan details and departure time. The supplementary flight plan information (which is not normally transmitted with the FPL) will be requested from the departure aerodrome. If the FPL has been filed for a departure from an aerodrome not connected to the AFTN, the pilot should indicate in Item 18 where the Supplementary FPL information can be obtained (such as the NATS Helpdesk if the FPL has been filed through them).

Note: *A destination aerodrome will not be aware of an inbound flight that has filed an Abbreviated Flight Plan.*

1.10.2.2 If a Full or Repetitive FPL has not been filed, the destination aerodrome may not know that the aircraft is inbound to them, and will not be able to calculate an ETA, nor will they be prepared to initiate alerting action - unless additional information comes to their notice that an aircraft is in difficulties.

1.10.2.3 Searching for an aircraft that may have forced landed in difficult terrain or a sparsely populated area, or ditched in a large expanse of water, can be a difficult and lengthy process. The sooner an ATSU can detect that an aircraft needs assistance and alerts search and rescue services, the better for all concerned.

1.10.2.4 It is also important that if a pilot does file a Full or Repetitive FPL and then lands elsewhere, that they notify the original destination without delay. When landing at an alternate aerodrome with an ATSU, it can be expected that the ATSU will send an arrival message on the pilot's behalf. However, it is important that the pilot informs the ATSU that they have diverted from the planned destination. Failure to notify the original destination may cause unnecessary search and rescue action to be initiated.

1.10.2.5 Specific FPL addressing requirements are detailed in paragraph 2.

1.11 Low Level Cross-Channel Operations - UK/France

1.11.1 Pilots undertaking Cross-Channel flights are reminded that a flight plan **MUST** be filed for all flights to or from the United Kingdom which will cross the United Kingdom/France FIR Boundary.

1.11.2 Specific FPL addressing requirements are detailed in paragraph 2 VFR Flight Planning.

1.11.3 For further details see ENR 1.1, paragraph 3.7.

1.12 Action in the Event of Diversion

1.12.1 If a pilot lands at an aerodrome other than the destination specified in the Full or Repetitive FPL, they must ensure that the ATSU at the original destination is informed within 30 minutes of the ETA (calculated from the Full FPL and departure time). This will avoid unnecessary search and rescue action being taken by the Alerting Services.

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1.13 **Delays, Departures, Modifications and Cancellations to a Filed Flight Plan**

1.13.1 **General**

1.13.1.1 Having filed a Full or Repetitive FPL, pilots or AOs may be required to change the existing FPL details. In most cases, a standard modification message can be sent. However, in the case of a change to departure, destination or aircraft call sign the original FPL must be cancelled and a new FPL submitted. A second FPL cannot simply be used to amend the first.

1.13.2 **Delays**

1.13.2.1 ICAO requires that an appropriate delay message (DLA) must be sent if the EOBT is more than 30 minutes later than that already shown in the Full or Repetitive FPL.

1.13.2.2 It is important that, in the event of a delay of 30 minutes or more to the EOBT, the pilot advises the departure aerodrome ATSU/ Parent AFTN Unit so that a DLA message can be sent.

1.13.2.3 In order to meet the requirements of ATFM, all IFR aircraft operating within Europe must have any changes to their EOBT of +/- 15 minutes notified to the Integrated Flight Plan Processing System (IFPS). Full details are shown in paragraph 3.

1.13.3 **Departures**

1.13.3.1 It is also important that the DEP message is sent, as this activates the Full or Repetitive FPL. Although the ATSU at the departure aerodrome has the responsibility to send the FPL and DEP message by AFTN, the pilot should check that this has been done, especially when departing from a non-UK aerodrome. If there is no ATSU at the departure aerodrome, or the ATSU is not connected to the AFTN, the pilot must ensure that the departure time is passed to the appropriate agency who will ensure a departure message has been passed.

1.13.3.2 A DEP message is not required if an IFR FPL has been filed with IFPS and the flight will operate solely within the IFPS Zone. (See also paragraph 3).

1.13.3.3 DEP messages must always be sent for VFR FPLs and IFR FPLs operating outside Controlled Airspace (CAS) or outside the IFPS Zone.

1.13.3.4 **Failure to activate the FPL could result in the destination aerodrome not being aware that alerting action should be taken.**

1.13.4 **Modifications**

1.13.4.1 Other modifications to a filed FPL, such as a change in aircraft type, speed, level, route, etc, can be notified using a change (CHG) message.

1.13.4.2 It is also important that when any changes or modifications are made to the original Full or Repetitive FPL, that a change (CHG) message is transmitted to all the addressees that will be affected by the change or modification. In the case of Full or Repetitive FPLs filed with IFPS, and as long as the CHG message is sent to them, IFPS will do this automatically for the IFR portions of the FPL.

1.13.5 **Cancellations**

1.13.5.1 Any changes to aircraft call sign, point of departure and/or destination will require the original Full or Repetitive FPL to be cancelled and a new FPL submitted.

1.13.5.2 Should the flight be cancelled, for any reason, it is equally important to ensure that a cancellation (CNL) message is transmitted to all the original FPL addressees. In the case of FPLs filed with IFPS, and as long as the CNL message is sent to them, IFPS will do this automatically for the IFR portion of the FPL.

1.14 **Cancelling an IFR FPL in Flight**

1.14.1 If a pilot has begun a flight in Controlled Airspace under an IFR FPL he may decide on encountering VMC that he wishes to cancel his IFR FPL and fly under VFR. However, it must be stressed that a pilot cannot exercise this choice when operating a flight:

a) In Controlled Airspace which is notified as Class A Airspace.
b) Above FL 195 in Controlled Airspace which is notified as Class C Airspace.
c) Along an ATS Route which is notified as Class C Airspace.

In these circumstances all flights in all weather conditions are subject to IFR procedures.

1.14.2 In classes of Controlled Airspace where a choice of Flight Rules is possible in VMC, the pilot may cancel an IFR FPL by transmitting the following message to the ATSU:

'(Identification) - Cancelling my IFR flight.'

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1.14.3 ATC cannot approve or disapprove cancellation of an IFR FPL but, when in possession of information that IMC is likely to be encountered along the intended route of flight, will advise the pilot accordingly as follows:

'IMC reported (or forecast) in the vicinity of.....'

1.14.4 The fact that a pilot reports that he is flying in VMC does not in itself constitute cancellation of an IFR FPL. Unless cancellation action is taken, the flight will continue to be regulated in relation to other IFR traffic.

1.15 **Persons On Board**

1.15.1 The number of persons on board a flight for which a FPL has been filed must be available to ATC for search and rescue purposes for the period up to the ETA at the destination aerodrome plus one hour. If this information has been sent to the AO' s handling agency at destination, no further action is required. Otherwise, the information is to be made available as follows:

a) Where the AO or handling agency at the departure aerodrome closes before the ETA plus one hour, the AO or handling agency must lodge the number on board with the ATSU serving the aerodrome of departure;
b) where the departure aerodrome ATSU closes down before the ETA plus one hour, that ATSU must lodge the number directly with the appropriate Area Control Centre (ACC);
c) at aerodromes without an ATSU, where the aerodrome closes before ETA at destination plus one hour, the aerodrome operator or handling agency must lodge the name and address of officials who have access to flight departure records with the appropriate ACC, so that they can be contacted as necessary, either direct or through the local police.

Note: *The procedure above only applies if 'TBN' (or similar) has been inserted in Item 19 to indicate that the total number of persons on board was not known at the time of filing the FPL.*

2 VFR Flight Plans

2.1 **When to File a VFR Flight Plan** see paragraph 1.3.

2.2 **Highland and Island Airports Limited**

2.2.1 Highland and Island Airports Limited have highlighted the specific remoteness of some of their airports and the CAA considers it appropriate to emphasise the advice to pilots to file a flight plan when flying to or from the following HIAL aerodromes:

Barra (EGPR)
Benbecula (EGPL)
Campbeltown
(EGEC)
Inverness (EGPE)
Islay (EGPI)
Kirkwall (EGPA)
Stornoway (EGPO)
Sumburgh (EGPB)
Tiree (EGPU)
Wick (EGPC)

2.3 **Submission Time Parameters**

2.3.1 VFR flight plans should be submitted to the ATSU at the departure aerodrome at least 60 minutes before clearance to start up or taxi is requested. The local ATSU, if required, will assist in compiling the flight plan. If the departure aerodrome is not connected to the AFTN, and the pilot has no AFPEx account, the pilot is responsible for arranging the dispatch of the completed flight plan to the AFPEx Helpdesk/Parent AFTN Unit by Fax.

2.4 **Addressing VFR Flight Plans**

2.4.1 When addressing a VFR flight plan it is important to note that in addition to addressing the Destination Aerodrome, and when applicable the appropriate adjacent foreign FIRs, it **must** also be addressed to the appropriate FIRs, when entering or remaining within them, as listed below:

(a)	EGZYVFRP	Scottish FIR
(b)	EGZYVFRT	London FIR
(c)	EGGXZOZX	Shanwick Oceanic FIR

2.4.2 For addressing Cross-Channel flight plans see paragraph 2.7.2.4.

2.4.3 Further addressing information is available on the 'flightplanningonline' system, in UK AIP ENR 1.11, AFPEx Help Guide and in the 'Random FPL AFTN Address Book' available in electronic format at: www.nats.aero/ais (Links).

2.5 **VFR Flight Plans with Portion(s) of Flight Operated as IFR**

2.5.1 IFPS is the only source for the distribution of IFR/General Air Traffic (GAT) flight plans and associated messages to ATSUs within

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the participating European States - the IFPS Zone. Although IFPS handles IFR flight plans, **it will not** process the VFR portions of any mixed VFR/IFR flight plan. Therefore, in order to ensure that all relevant ATSUs are included in the flight plan message distribution, pilots or Aircraft Operators should make certain that whenever a flight plan contains portions of the flight operated under VFR, in addition to IFR, the FPL must be addressed to:

a) IFPS (EGZYIFPS);
b) aerodrome of departure;
c) aerodrome of destination and alternate;
d) all FIRs that the flight will route through as VFR (in UK address to EGZYVFRP for Scottish FIR and/or EGZYVFRT for London FIR);
e) Shanwick/Oceanic FIR to EGGXZOZX (for VFR);
f) any additional addressees specifically required by State or Aerodrome Authorities.

2.6 **Airborne Time**

2.6.1 The pilot is responsible for ensuring that the airborne time of the flight is passed to the ATSU with whom the flight plan has been filed. The ATSU will ensure that the departure (DEP) message is sent to the appropriate addressees. The pilot should try to arrange for a 'responsible person' on the ground to telephone the airborne time to the ATSU/AFPEx Helpdesk, as passing it over the RTF may, due to controller workload, lead to a delay in sending a departure message. Failure to pass the airborne time will result in the flight plan remaining inactive; consequently, this could result in the destination aerodrome not being aware that alerting action should be taken.

2.7 **Cross-Channel Flight Planning**

2.7.1 **Introduction**

2.7.1.1 The CAA have received reports that some VFR flight plans, filed for flights between France and the United Kingdom, have not been received at the UK destination aerodrome. Although these reports are infrequent, they nevertheless identify a significant safety aspect of cross-channel flight planning. The ability of the Air Traffic Service Unit at the destination aerodrome to be aware of an inbound flight is a key factor to alert search and rescue services, when appropriate.

2.7.2 **Pilots' Responsibilities**

2.7.2.1 The pilot is responsible for submitting (filing) a FPL to the Air Traffic Service Unit (ATSU) at the departure aerodrome at least 60 minutes before clearance to start up or taxi is requested. The local ATSU will, if required, assist the pilot to complete the FPL. If there is no ATSU at the departure aerodrome, or the ATSU is not connected to the Aeronautical Fixed Telecommunication Network (AFTN), the pilot must ensure that the FPL is passed to the Parent AFTN Unit for onward transmission (see paragraph 1.8).

2.7.2.2 If pilots send their FPLs by Fax, or make use of a non-UK computer based FPL system, they should assure themselves that the FPL has been accepted and has been transmitted by AFTN on their behalf. A telephone call to the ATSU receiving the FPL, or contact with the ATSU at the aerodrome of departure, will enable pilots to confirm that their FPL has been received, accepted and transmitted.

2.7.2.3 Pilots submitting a FPL via Fax to the Parent AFTN Unit, will receive a faxed copy of the transmitted FPL as proof of filing and to check for accuracy as detailed in paragraph 1.6.

2.7.2.4 **VFR Flight Plan Addressing**

2.7.2.4.1 The FPL should be addressed to:

a) The departure aerodrome;
b) the destination aerodrome and alternate;
c) all interested ATSUs en-route;
d) the London FIR - EGZYVFRT;
e) the Scottish FIR - EGZYVFRP (when necessary);
f) the Shanwick/Oceanic FIR - EGGXZOZX (when necessary);
g) all foreign FIRs that the aircraft will fly through or land/depart from.

2.7.2.5 **Flight Plan Route**

2.7.2.5.1 Pilots must ensure that well defined, significant points are included in the FPL to indicate where the aircraft will cross the UK or near continent coastlines. This information should be shown in Item 15 (Route) or Item 18 (Other information: EET/).

2.7.2.5.2 Routing information will NOT be given by the Parent AFTN Unit/AFPEx Helpdesk. For assistance with routing pilots should refer to the AIP and/or local ATSU in the vicinity of intended flight.

2.7.3 **Flight Plan Route - Flights to/from France**

2.7.3.1 Additionally, for flights to/from France, the French Authorities require the frontier crossing point (the UK/France FIR boundary position) to be included in Item 15 (Route) of the FPL. To assist pilots, the UK now includes the ATS route reporting points on the Southern England and Wales 1:500 000 chart. These can be used as a frontier crossing point. A position may also be shown as

LAT/LONG, or as a bearing and distance from a route reporting point or navigation aid.

Example:
Cap Gris Nez - RINTI
Cap Gris Nez - 51N00130E
Cap Gris Nez - RINTI23005
Cap Gris Nez - DVR16010

2.7.3.2 The EET for this position should be shown in Item 18 of the FPL (Other information) in the format EET/LFFF(elapsed time) or EET/EGTT (elapsed time), depending on flight direction.

Example: EET/LFFF0145 (UK/France) or EET/EGTT0020 (France/UK).

2.7.4 **Flight Plan Route - Flights to/from Channel Islands**

2.7.4.1 Recommended VFR routes from the Solent CTA to the Channel Islands are shown in the UK AIP Aerodrome Section - Jersey, page AD 2-EGJJ-3-1.

2.7.5 **Return Flight Plans Filed from the UK**

2.7.5.1 Pilots may elect to file their return FPLs at the same time as they file their outbound FPL. The normal requirement is to address the FPL solely to the aerodrome of departure. However, if the pilot also adds the addressee of the destination aerodrome, then this will ensure that the return destination in the UK is aware of the intended return flight, just in case the return FPL is not transmitted from the non-UK country. If the return flight occurs on a different day, pilots must ensure that the date of flight (DOF) is shown in Item 18 of the FPL.

Example: DOF/060922 (DOF/year/month/day = Date of flight 22 September 2006).

2.8 **Flight Planning in Remote Areas** - see paragraph 1.10.

2.9 **Special VFR Flight** - see ENR 1.2, paragraph 2.

3 IFR Flight Planning

3.1 **Introduction**

3.1.1 The UK is a participating State in the **Integrated Initial Flight Plan Processing System (IFPS),** which is an integral part of the Eurocontrol centralised **Air Traffic Flow Management (ATFM)** system.

3.1.2 IFPS is the **sole** source for the distribution of **IFR** /General Air Traffic (GAT) FPL information to ATSUs within the participating European States, which collectively comprise the **IFPS Zone**. A list of participating States is available in Section 13 of the IFPS Users Manual.

3.1.3 IFPS will not handle VFR flight plans or Military Operational Air Traffic (OAT) flights but will process the GAT portions of a mixed OAT/GAT FPL and the IFR portions of a VFR/IFR FPL.

3.2 **IFPS**

3.2.1 IFPS comprises two Units (IFPU) sited within the Eurocontrol facilities at Haren, Brussels and at Bretigny, Paris. The IFPS Zone is divided into two separate geographical areas, each IFPU having a primary responsibility for one area and a secondary role, for contingency purposes, for the other. Consequently all IFR/GAT flight plans and associated messages **must** be addressed to both IFPUs (see paragraph 3.5). Following successful processing, the FPL will be delivered, at the appropriate time, to all the ATSU addressees on the flight-profiled route within the IFPS Zone.

3.2.2 As all IFR/GAT flight plans within the IFPS Zone are addressed to both IFPUs, the effect of one unit being out of action will be transparent to flight plan originators. The likelihood of a simultaneous outage of both IFPUs is considered to be extremely low. In such an event, flight plan originators will be alerted, by NOTAM, to reinstate the filing of messages, for flight plan and RPL operations, to all appropriate addresses, both within and outside the IFPS Zone.

3.3 **ATFM**

3.3.1 Additionally, IFPS provides accurate flight data to the ATFM elements of the **Network Management Directorate (NMD),** located at Haren, Brussels. The day-to-day ATFM activities in the participating states are managed by the NMD, supported by the UK Flow Management Position (FMP) established at London Area Control (Swanwick), and Flight Data Operations (FDO). Overall authority for the provision of ATFM in the London and Scottish FIRs/UIRs is delegated to the Eurocontrol NMD.

3.3.2 NATS has provided an FMP at London Area Control (Swanwick) to liaise between the NMD, local AOs and ATS.

3.3.3 ATS is responsible for monitoring a flight's compliance with any **Calculated Take-Off Time (CTOT)** that may be issued by the

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NMD in response to the filing of a FPL on a route that is regulated. In accordance with agreed procedures, flights that cannot adhere to their CTOT will be denied start-up clearance. However, ATS will make all efforts to enable departing flights to comply with the CTOT and flights will not be prevented from departing due to small taxiing delays.

3.3.4 In some cases, due to specific restrictions in enroute airspace, or at aerodromes, flights will need to be stopped from departing. In this event, a Flight Suspension (FLS) message may be issued after a CTOT has been issued.

3.3.5 Where a flight departs from an aerodrome with an ATSU, the Aircraft Operator or pilot should obtain information, prior to start up from ATS as to whether a CTOT or FLS affects their flight.

3.3.6 Where a flight departs from an aerodrome **without** an ATSU, or when the FPL has been filed with a Parent AFTN Unit, it is the Aircraft Operator or pilot's responsibility to determine whether a CTOT or FLS affects their flight. In this case, the Aircraft Operator or pilot should contact the NMD or FMP before the aircraft departs.

3.3.7 For additional information see ENR 1.9.

3.4 **Submission Time Parameters**

3.4.1 FPLs should be filed a minimum of **3 hours** before Estimated Off Block Time (EOBT) for North Atlantic flights and those subject to ATFM measures, and a minimum of **60 minutes** before EOBT for all other flights.

3.4.2 IFPS always calculates the Date of Flight (DOF) if none is given in the FPL. In doing so it will assume the EOBT to be within the next 24 hours after the filing time. If a FPL is filed more than **24 hours** in advance of the EOBT, the **DOF** must be indicated in **Item 18** of the FPL.

3.4.3 IFPS will not accept flight plans submitted more than 120 hours in advance of the flight taking place.

3.5 **Addressing IFR Flight Plans**

3.5.1 **Flights Wholly Within the IFPS Zone**

3.5.1.1 FPLs and associated messages must be addressed to both IFPUs. This can be achieved by using either the standard collective AFTN address, or the individual AFTN or SITA addresses:

		AFTN	SITA
Collective		EGZYIFPS	
Individual	Haren	EUCHZMFP	BRUEP7X
	Bretigny	EUCBZMFP	PAREP7X

3.5.2 **Flights Entering or Overflying the IFPS Zone**

3.5.2.1 For that part of the flight within the IFPS Zone, only the two IFPUs need to be addressed as shown above.

3.5.3 **Flights Departing from an Aerodrome Within, and then Exiting, the IFPS Zone**

3.5.3.1 For that part of the flight within the IFPS Zone, only the two IFPUs need be addressed as shown above. For any parts of the flight outside the IFPS Zone, the FPL and associated messages must also be addressed to the appropriate ATSUs outside the Zone.

3.5.3.2 FPL originators filing directly to IFPS are responsible for ensuring that any modifications made to the FPL, either by IFPS or through subsequent messages, are distributed to the relevant ATSUs outside the Zone. This is achieved by use of the 'Re-addressing Function' which is described fully in the IFPS User's Manual.

3.5.3.3 Operators are reminded that IFPS does not forward mixed IFR/VFR FPL to VFR addresses.

3.5.4 **IFR Flight Plans with Portion(s) of Flight Operated as VFR**

3.5.4.1 IFPS is the only source for the distribution of IFR/General Air Traffic (GAT) flight plans within the participating European States - the IFPS Zone. Although IFPS handles IFR flight plans, **it will not** process the VFR portions of any mixed VFR/IFR flight plan. Therefore, in order to ensure that all relevant ATSUs are included in the flight plan message distribution, pilots or Aircraft Operators should make certain that whenever a flight plan contains VFR, in addition to IFR, the FPL must be addressed to:

a) IFPS (EGZYIFPS);
b) aerodrome of departure;
c) aerodrome of destination and alternate;
d) all FIRs that the flight will route through as VFR (in UK address to EGZYVFRT for London FIR);
e) any additional addressees specifically required by State or Aerodrome Authorities.

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3.5.5 **Oceanic Flights**

3.5.5.1 For Oceanic flights it should be noted that Shanwick is within the IFPS Zone and FPLs should also be addressed as per ENR 1.11-1.

3.6 **Filing of Flight Plans and Associated Messages**

3.6.1 **Flight Plans**

3.6.1.1 Filing flight plans under IFPS involves an automatic interface with the computer database. Consequently, a rigid protocol for message exchange is needed, especially when delays or modifications are required to the planned route.

3.6.1.2 AOs are ultimately responsible for the complete filing of their FPLs and all associated messages. This encompasses compilation (including addressing), accuracy and submission of FPLs and also for the reception of the Acknowledgement (ACK) message from IFPS.

3.6.1.3 In the UK, AOs who have the facilities (AFTN or 'flightplanningonline' account) may file their own flight plans and associated messages directly with IFPS and any other non-IFPS states. This is the standard IFPS IFR/GAT FPL filing procedure and is termed ' **direct filing** '.

3.6.1.4 **AOs and pilots who, for whatever reason, are unable to conform to the direct filing procedure** should make local arrangements to file their IFR/GAT flight plans through the ATSU at the aerodrome of departure. The ATSU will, when appropriate, assist in the compilation of flight plans and interpreting the associated messages. It is essential for reasons indicated below that the flight crew remains contactable by the ATSU prior to departure.

3.6.1.5 **Adherence to Airspace Utilization Rules and Availability.** No flight plans shall be filed via the airspace of the London and Scottish FIRs/UIRs deviating from the state restrictions defined within the Route Availability Document (RAD). This common European reference document contains all airspace utilisation rules and availability for participating states and any reference to them shall be made via https://www.nm.eurocontrol.int/RAD/index.html.

3.6.2 **Associated Messages**

3.6.2.1 The compilation of Departure **(DEP)**, Arrival **(ARR)**, Modification **(CHG)**, Delay **(DLA)** and Cancellation **(CNL)** messages is detailed in ICAO Doc 4444. Their use for the exchange of information with the automatic IFPS database is strictly governed by the instructions given in the IFPS Users Manual. For example, to change the information in certain Items of the FPL, it is necessary to cancel the original FPL and refile with the amended data after a time lapse of at least 5 minutes.

3.6.2.2 The occasions when an **ARR** message must be sent are minimal, mainly when an aircraft has diverted or when a controlled flight has experienced radio failure. In each instance it is the responsibility of the ATSU at the landing aerodrome to send an ARR message. Submission of an arrival report is not required after landing at an aerodrome where air traffic services are provided on condition that radio communication or visual signals indicate that the landing has been observed.

3.6.2.3 A pilot flying to a destination without an ATS or AFS facility should, prior to departure, notify a responsible person at the destination of his ETA. The responsible person is required to inform the Parent ATSU if the aircraft fails to arrive within 30 minutes of the ETA. In the event of a pilot being unable to find a responsible person at his destination he may request the Parent ATSU to act in this capacity. Should this occur the pilot is required to inform the Parent ATSU within 30 minutes of his arrival at destination. This ensures that prompt alerting and overdue action is initiated if necessary.

3.6.2.4 Certain FPL messages are exclusive to the IFPS process, and are named Operational Reply Messages **(ORM).** They are:

a) The FPL Acceptance Acknowledgement Message **(ACK)**;
b) Referred for Manual Repair **(MAN)**;
c) FPL Message Rejected **(REJ)**.

3.6.2.5 The **ACK** message will be automatically received from IFPS when the FPL has been automatically accepted into the system. Alternatively, a **MAN** message will indicate that the FPL has not been accepted and is awaiting manual intervention by an IFPS operator. Manual repair of a failed FPL is often carried out in conjunction with the FPL originator. Where FPLs are filed directly to IFPS, it is strongly advised that the originator's contact details be included in Item 18 where this is not obvious from the flight details. Dependant upon the success or otherwise of the manual 'repair' to the message, an **ACK** or **REJ** will be received. An ACK message will include the 'repaired' message so that the changes can be checked by the originator, and it is essential that the **flight crew are informed** of the accepted FPL route.

3.6.2.6 Receipt of a **REJ** message will indicate that the FPL has not been accepted by IFPS. The REJ message will indicate the errors in the message which need to be resolved and will also include a copy of the message received by IFPS; this will enable the originator to determine if the message has been corrupted during transmission. If a FPL or associated message is rejected by IFPS, a corrected message must be sent without delay.

3.6.2.7 It is a European ATFM requirement that all controlled flights that are departing, arriving or overflying Europe that have a change (+ or -) in an EOBT of more than 15 minutes shall be notified to the NMD through IFPS. Modification procedures are, therefore,

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necessary to enable Aircraft Operators (AOs) to meet this requirement whenever they know that a flight will not meet its EOBT.

Note 1: AOs should not modify the EOBT simply as a result of an ATFM delay. The EOBT is to be modified only if the original EOBT established by the AOs cannot be met. It is not possible to amend the EOBT to an earlier time than the EOBT given in the flight plan.

The procedure to be followed to modify the EOBT of a flight is shown in ENR 1.9 and full details are contained in the IFPS Users Manual, pages 4.1 and 4.2.

Some states outside the NMD area of responsibility still require AOs to update the EOBT, regardless of why the flight's original EOBT may have changed. AOs should bear in mind the formula (as shown in ENR 1.9) for calculating the new EOBT when doing this. Where it is known that ATC send departure messages (DEP) for all flights, then this DEP message will suffice.

***Note 2:** Extreme care should be exercised when compiling a DLA message; the time specified in the message must be the EOBT, not the planned airborne time or the Calculated Take-Off Time (CTOT).*

3.6.2.8 **Until an ACK message has been received by the message originator, the requirement to submit a valid FPL for an IFR/GAT flight intending to operate within the IFPS Zone will not have been satisfied.** In this case the flight details will not have been processed by IFPS and consequently the flight data will not have been distributed to the relevant ATSUs within the IFPS Zone. Similarly, processed data will not have been sent to the database of the NMD to be considered for ATFM purposes.

3.6.2.9 Therefore, **errors in the FPL or associated messages may result in the flight concerned being delayed.**

3.6.3 To indicate the necessity for 'special handling', the appropriate Status Indicator (STS) should be inserted in Field 18 of the flight plan.

3.6.3.1 The following standard abbreviations should be used:

STS/ALTRV	for flights operated in accordance with an altitude reservation;
STS/ATFMX	for a flight approved for exemption from ATFM measures by the appropriate ATS authority;
STS/FFR	fire fighting;
STS/FLTCK	flight check for calibration of navaids;
STS/HAZMAT	for a flight carrying hazardous material;
STS/HEAD	for a flight with Head of State status;
STS/HOSP	for a medical flight declared by medical authorities;
STS/HUM	for a flight operating on a humanitarian mission;
STS/MARSA	for a flight for which a military entity assumes responsibility for separation of military aircraft;
STS/MEDEVAC	for a life critical medical emergency evacuation;
STS/NONRVSM	for a non-RVSM capable flight intending to operate in RVSM airspace;
STS/SAR	for a flight engaged in a search and rescue mission;
STS/STATE	for a flight engaged in military, customs or police services.

Other reasons for special handling by ATS shall be declared under the designator RMK/.

3.6.3.2 The following STS/indicators will be recognised by the NMD and will be provided with automatic exemption from flow regulation:

STS/HEAD, STS/SAR, STS/MEDEVAC, STS/FFR and STS/ATFMX.

3.6.3.3 The following STS/indicators require approval for exemption from flow regulation from the appropriate State authorities, in accordance with the requirements detailed in the ATFM Users Handbook and in ENR 1.9:

STS/HUM, STS/HOSP and STS/STATE.

3.6.3.4 In addition to military operations, operators of customs or police aircraft shall insert the letter M in Item 8 of the Flight Plan Form.

3.6.3.5 For formation flights that intend to operate - for any part - as GAT, it is essential for en-route ATC Providers to have as much notification as possible in order for planning to take place. Although use of FPL Item 9 in the current ICAO standard Flight Plan Proforma provides for indication of the number of aircraft (if more than one operating under the same callsign), the ability of some ATC Flight Data Processing Systems to detect and highlight this to control staff may not be robust; this is especially the case where Air-to-Air refuelling tanker aircraft file as singleton, only to include a FPL Item 18 remark that it will be joined by other aircraft which have filed separate flight plans.

3.6.3.6 Commanders of all planned GAT formation flights are requested to enter RMK/Formation flight in FPL Item 18 of their flight plan to ensure that ATC Flight Data Processing Systems can detect and promulgate such information correctly to control staff. Any queries should be directed to London Control (Swanwick) Flight Planning and Airspace Data (Tel: +44-(0)1489-612590/612040).

3.6.3.7 Civil formation flights in Controlled Airspace, other than for VFR transit of CTA/CTR/TMA are considered to be Non-Standard Flights (NSFs) requiring the issuing of a NSF number/authorisation in advance of the intended date of flight. A formation's NSF

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number/authorisation is to be included in FPL Item 18 and prior clearance must be obtained from the appropriate ATC Watch Supervisor on the day (See ENR 1.1.4 - Arrangements for Particular Types of Flight (Non-Standard, Non-Deviating, Unusual, Royal, Observation, Special, VFR Access to Class C Airspace Above FL 195, and Civilian Formation Flights) paragraph 1 (Non-Standard Flights (NSFs) in Controlled Airspace).

3.6.3.8 For Military formation flights that intend to operate - for any part - as GAT, it is essential for en-route ATC Providers to have as much notification as possible in order for planning to take place.

3.6.4 **Supplementary Flight Plan Information**

3.6.4.1 As an alternative to ICAO procedure that Supplementary Information should not be transmitted in a flight plan message (ICAO Doc 4444: Appendices 2 and 3) it should be noted that IFPS is able to process and store Field 19 - Supplementary Flight Plan Information. Where such information is supplied as part of a flight plan submission to IFPS it will be extracted and stored for later retrieval, if required, in the event of an emergency situation arising. Supplementary flight plan information will not be included in the normal flight plan distribution by IFPS.

Note: *If the FPL has been filed via 'flightplanningonline' this information will be held by the system, but will not be transmitted. Should this information be required contact the AFPEx Helpdesk.*

3.6.4.2 Whilst the ICAO procedure should normally be followed by flight plan originators in the UK, they may avail themselves of the IFPS facility if they so wish.

3.6.4.3 ATS Authorities, or other relevant bodies, requiring Supplementary flight plan information on a particular flight and for urgent operational reasons may contact the Supervisor at the appropriate IFPU; assistance will be provided by either:

a) giving information on Field 19 where such information has been submitted to and stored by IFPS;
b) giving advice on a contact name/Tel No. of the AO and/or originator of the flight plan, which may be stored in the NMD database;
c) giving any additional information which may be contained in Field 18.

3.6.5 **Replacement Flight Plan Procedure.** If, within 4 hours of the EOBT, an alternative routing is selected between the same points of departure and destination, the procedure shall be as follows:

a) The original Flight Plan **must be cancelled** by submitting a CNL message using the DD priority indicator;
b) the replacement Flight Plan shall be filed **not less than 5 minutes** after the CNL message (It is recommended that the replacement Flight Plan is not submitted until the ACK for the CNL message has been received);
c) the replacement Flight Plan shall contain in Field 18 the indication RFP/Qn where:
    i. **RFP/Q** refers to the replacement Flight Plan; and
    ii. **n** corresponds to the sequence number relating to the replacement Flight Plan.

Example: First replacement Flight Plan - ICAO Field 18 - **RFP/Q1**;
Second replacement Flight Plan - ICAO Field 18 - **RFP/Q2**.

3.7 **Repetitive Flight Plans (RPLs)**

3.7.1 As part of the continuing development of the NMD, Eurocontrol will assume full responsibility for the reception, processing and distribution of Repetitive Flight Plan (RPL) data within the IFPS Zone. Flights within the IFPS Zone shall be filed solely with Eurocontrol at the NMD, Brussels, in accordance with the requirements and procedures detailed below.

3.7.2 Operators who fly routes on a regular or scheduled basis within the IFPS Zone are able to file Repetitive Flight Plans on the Eurocontrol database. These plans are activated automatically at the appropriate time before each flight. RPLs for flights within the IFPS Zone, but which have a route portion outside the Zone, have to be **filed** to the National Authorities of those external states. All external states on the route must have agreed to the use of RPLs; a mixture of RPLs and FPLs is not permitted for an individual flight.

3.7.3 Details of the requirements for the submission and duration of RPLs can be found in the IFPS User Manual section of the Network Operations HANDBOOK. The **IFPS Users Manual and the Network Operations HANDBOOK** are available, free of charge, from:

Post: Eurocontrol Library
Rue de la Fusee, 96
B - 1130 Brussels, Belgium
Http: https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html

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3.8 **Specific Eurocontrol Requirements for RPL Operations**

3.8.1 The basic principles for the submission of Repetitive Flight Plans are contained in ICAO Docs 4444 and 7030. The following paragraphs detail the differences between the ICAO Standard and the Eurocontrol requirement, which permits a more flexible approach within the basic rules. Full details are contained in the IFPS User Manual section of the Network Operations HANDBOOK.

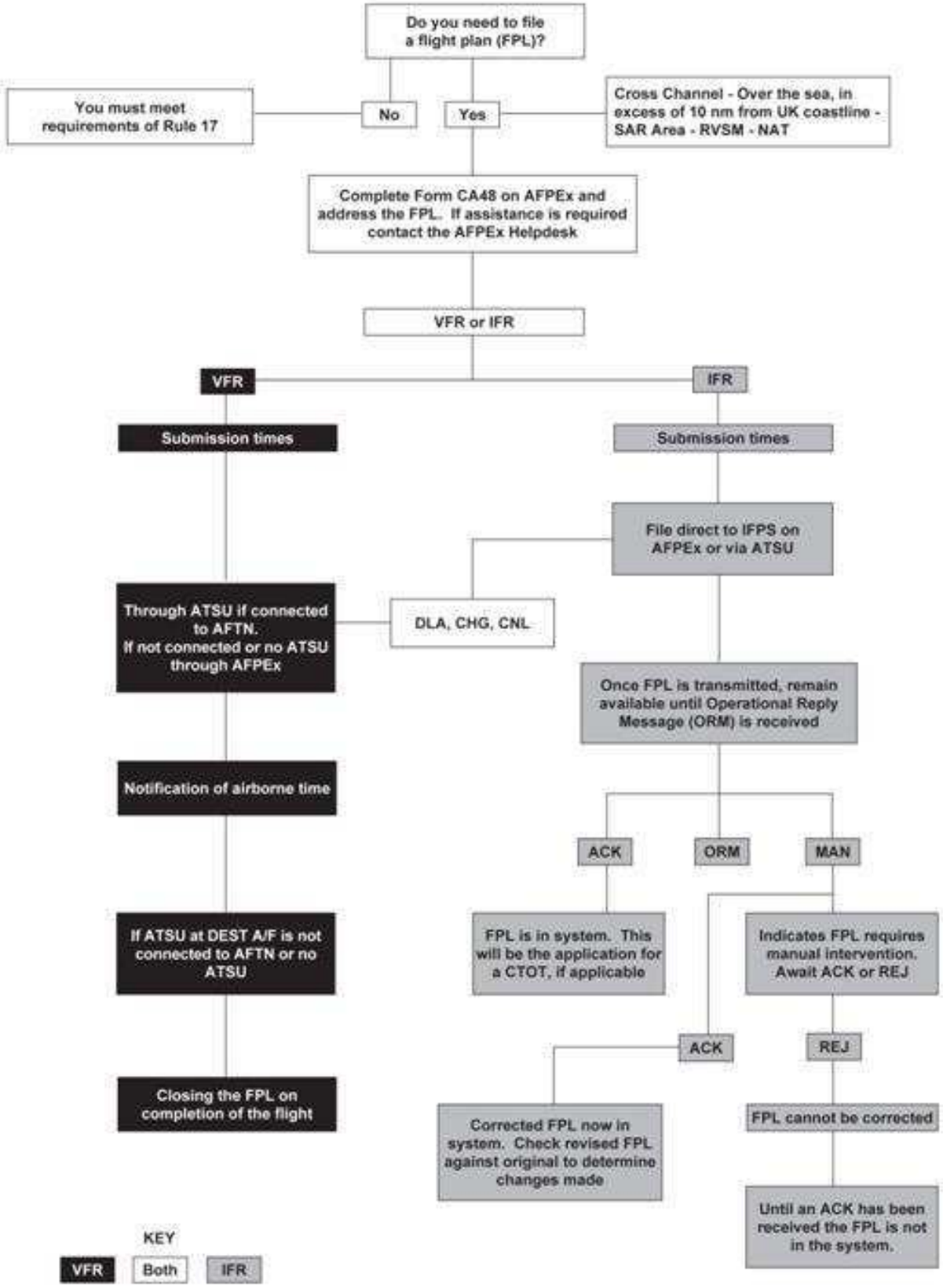
3.8.2 RPLs shall cover the entire flight from the departure aerodrome to the destination aerodrome. Therefore, an RPL shall be submitted by the flight plan originator for its entire route. A mixture of both RPL and FPL message shall not be permitted. RPL procedures shall be applied only when ALL ATS authorities concerned with the flights have agreed to accept RPLs. In this respect, all States of the IFPS Zone accept RPLs. It is the responsibility of the AO to ensure that RPLs for flights which are partly outside the Zone are properly co-ordinated and addressed to the relevant external ATS authorities.

3.8.3 To suspend an RPL the originator should send the information in the format as shown in the IFPS User Manual. However, originators should note that flights cannot be suspended for less than 3 days. If the suspension is for less than 3 days, individual daily cancellation messages must be sent by the originator to the IFPS in order not to waste ATC capacity by leaving 'ghost' flights in the NMD and ATC databases.

3.8.4 To cancel an RPL for a specific day, the originator need only send a normal ICAO CNL message to both of the IFPS units (EUCHZMFP and EUCBZMFP or BRUEP7X and PAREP7X) **but not earlier than 20 hours before the EOBT of the flight.** The same rule applies for a change (CHG) or delay (DLA) message since at 20 hours before EOBT the RPL is transferred to the IFPS and the RPL effectively becomes a FPL.

ENR 1.10 FLIGHT PLANNING (continued)

4 THE FLIGHT PLAN FILING PROCESS VIA AFPEx



ENR 1.10 FLIGHT PLANNING (continued)

5 LOW-LEVEL CIVIL AIRCRAFT NOTIFICATION PROCEDURES (CANP)

5.1 Introduction

5.1.1 Many military and civil aircraft operate in Class G Airspace below 2000 FT AGL, where ground radio and radar coverage is not always available to assist pilots in avoiding collisions. Collision avoidance must necessarily, therefore, be based on the 'see and avoid' principle, assisted as far as possible by information on known activity. Whereas a variety of civil aviation activities take place within this airspace, military activity consists mainly of low flying training.

5.1.2 It is not practicable to obtain and disseminate traffic information on all civil flights below 2000 FT AGL, nor is it possible to disseminate details of military low-level flights within the UK Low Flying System (UKLFS) to civil operators. Nevertheless, the greatest conflict of interests occurs at or below 1000 FT AGL where the majority of military low-level operations take place and where civil aircraft may be engaged upon activities, as defined at paragraph 5.2.1, which might inhibit pilot look-out or reduce aircraft manoeuvrability. In addition, certain recreational and other civil flying activity, away from licensed aerodromes, needs to be considered.

5.1.3 A system exists to collect information on civil aerial activities for distribution to military operators to assist in flight planning. This system is known as the Low-Level Civil Aircraft Notification Procedure (CANP).

5.1.4 Before commencing any low flying sortie, military pilots receive a comprehensive brief on all factors likely to affect their flight, including relevant CANP details. Hence, maximum participation in CANP by those planning to conduct the qualifying activities is essential if full benefit is to be obtained from the procedure.

5.1.5 Pilots/operators, or their representatives, intending to embark upon aerial activities described below should notify details of the flights to the Military Airspace Management Cell (MAMC) - Low Flying Co-ord (LFC) at 78 Squadron Swanwick. For the purposes of CANP, direct-dial, Freephone and E-mail facilities are available as follows:

Monday to Thursday	0700-2000 (0600-1900);
Friday	0700-1500 (0600-1400).

5.1.6 E-mail notification is preferred for CANP requests as this allows LFC to E-mail or telephone confirmation of E-mail and issue a reference number to the aircraft operating authority. Contact details are as follows:

Phone: 01489-443100.
Email: SWK-MAMCLFCOORD@mod.gov.uk

5.2 Commercial Aerial Activity

5.2.1 The following civil aerial activities at and below 1000 FT AGL with an expected duration in excess of 20 minutes at a specific location, should be notified to LFC:

a) Aerial crop spraying;
b) underslung aerial load lifting;
c) aerial photography and filming;
d) aerial survey/air surveillance.

Note: *For the purposes of this notification, crop spraying is to be considered as the generic term for all agricultural tasks carried out by an aircraft.*

5.2.1.1 Pipeline/powerline inspection activity is the subject of ENR 1.10, paragraph 6. However, aircraft carrying out powerline inspections and which are able to operate within a limited geographical area may apply for warning status under CANP. Any request for such protection should be made as far in advance as is possible through the E-mail address or Freephone numbers shown at paragraph 5.1.6. The manager of the UKLFS at MAMC LFC, 78 Squadron Swanwick will consider requests of this nature on a case-by-case basis.

5.2.2 Procedure

5.2.2.1 CANP telephone messages should provide details of the intended activity in the following format:

a) Type of activity;
b) location(s): Preferably as a 2-letter, 6-figure grid reference taken from an OS 1:50,000 map, although latitude and longitude will be accepted. The name of a nearby village or town is also required;
c) area of operation(s): (See paragraph 5.2.4.1);
d) date and time of intended operation(s): Start/finish in local time;
e) maximum operating height(s) AGL;
f) number and type(s) of aircraft;
g) contact telephone number(s);
h) operating company and telephone number(s) (if applicable).

ENR 1.10 FLIGHT PLANNING (continued)

Example: CANP NOTIFICATION
A - UNDERSLUNG LOADS
B - SU 561310 - OVINGTON
C - 2 NM RADIUS
D - 12 SEPTEMBER - 1000 to 1300
E - 1000 FEET AGL
F - SINGLE MB105 HELICOPTER
G - Contact fax and telephone number for the site
H - ROTARY HELICOPTERS LTD - Fax and telephone number of operator.

5.2.2.2 Once a notification has been accepted, LFC will allocate a reference number which pilots/operators should retain. Operators are advised that, in the interests of safety and accuracy, all telephone calls to LFC are recorded.

5.2.2.3 Operators should, where possible, use the E-mail facility as the primary method of filing a notification. Requests should be submitted using Form CA 2366 as reproduced at Figure ENR 1.10-1. Customised variations of this form are acceptable if they contain all the information required at paragraph 5.2.2.1. A contact E-mail address and telephone number must be provided in order that notification can be confirmed and a reference number issued (additional copies of Form CA 2366 can be obtained from the Safety and Airspace Regulation Group (SARG) at the address shown at paragraph 5.4.1). **Users will receive a CANP reference number from LFC by E-mail or return telephone call.** This reference number should be retained until the termination of the activity with which it is associated.

5.2.3 **Pre-notification Required**

5.2.3.1 Pre-notification of intended operations should be communicated, by email if possible, to LFC not less than 4 hours before commencement of the activity. Email requests will receive an email or telephone call from LFC with time authentication and reference number. Notifications by telephone will receive a time authentication followed by a return call from LFC with a reference number. Although successful transmission of the CA 2366, or a time authenticator for notification by telephone, not less than 4 hours from the start of the CANP activity can normally be considered as confirmation that a CANP warning for the period requested will be issued. Operators may only request an avoidance under exceptional circumstances and if avoidance status is to be refused (significant adverse effect on military training) the operator will be advised accordingly. CANP activity that takes place in the Highland Restricted Area may also be refused subject to restrictions detailed in the latest Highlands Restricted Area (HRA) AIC.

5.2.3.2 Whenever possible, pre-notification of operations due to take place up to 1300 (1200) should be made the previous day and those due to take place after 1300 (1200) should be pre-notified on the morning of the same day. Consideration should also be given to LFC opening hours (paragraph 5.1.5); as multiple notifications just prior to LFC evening closure may not be processed until the following morning and operators therefore risk not having their activity notified to military crews before activity commencement the next day. It is accepted that there will be occasions when the minimum pre-notification time cannot be met. Nevertheless, late notifications should still be made and every effort will be made to distribute the information as widely as possible. However, reports received less than 4 hours before operations are due to commence are, progressively as the time diminishes, less likely to reach all military pilots before they depart on their low-level sorties and will, therefore, only be issued as a warning to military aircrew.

5.2.3.3 Due to the closure of LFC at weekends, activities planned for the weekend should be notified to LFC no later than 1600 (1500) on the Friday before, in order to receive warning status against any pre-notified Military flying. This also applies to flights which may enter low level due to the prevailing weather and the nature of the activity.

5.2.4 **Operating Area Boundaries**

5.2.4.1 The airspace notified under CANP should not exceed an area bounded by a 2 NM radius circle. **If more than one area is to be notified, these areas are not to be activated concurrently**. In the case of underslung aerial load lifting operations the area should be defined as a corridor extending 2 NM either side of intended track from ground level to a maximum of 1000 FT AGL. When the route of an underslung load exceeds 20 NM it should, wherever possible, be divided into sections not exceeding 20 NM in length; an overlap of 20 minutes is acceptable in such circumstances.

5.2.4.2 CANP may be used to notify pipeline inspection activity in a limited area (see ENR 1.10, paragraph 6), however, warning status will normally only be granted for a maximum period of 2 hours. Concurrent activation will be permitted, although the manager of the UKLFS still retains the right to refuse such requests when the impact on military training is considered to be unacceptable. Specific sites identified for the application of this facility are as follows:

ENR 1.10 FLIGHT PLANNING (continued)

Newark-on-Trent	530400N 0005200W
Tewkesbury	520000N 0021200W
Glasbury	520000N 0030800W
Kineton	520800N 0013000W
5 nm North of Ebbw Vale	515500N 0031900W

Additional sites may be identified as required by PINS operators subject to normal notification procedures.

5.2.4.3 Pilots of military fixed wing aircraft flying at an IAS greater than 140 KT will avoid areas reported under CANP either laterally or vertically. CANP users should note that military pilots may overfly the reported area by a minimum of 500 FT. Thus, for example, if the height of the CANP area is 1000 FT AGL, military aircraft may overfly the area at a minimum height of 1500 FT AGL. Therefore, the lateral and vertical boundaries that define the area of activity should equate only to the parameters within which the activity is planned to take place and should not build in an allowance as a safety factor.

5.2.4.4 Pilots/operators should note that, other than in exceptional circumstances, the dimensions of a CANP 'warning or avoidance' as defined at paragraph 5.2.4.1 are generally not negotiable. Any request for a CANP of non-standard dimensions should be made, as far in advance as possible, to the contact numbers shown at paragraph 5.1.6.

5.2.5 **Cancellation and Re-submissions**

5.2.5.1 Activities reported under CANP may considerably restrict the airspace available for military low flying training. Thus, in order to maintain the integrity of the CANP system, every reasonable attempt should be made to inform LFC as soon as it becomes obvious that an activity previously notified will no longer take place, or that the activity has been completed. Notification of a completed activity should be made irrespective of the time remaining on the CANP.

5.2.5.2 To eliminate the possibility of error, an application **must** be made in accordance with paragraph 5.2.2.1 on each occasion. Re-submission by reference to a previously issued CANP Reference Number **will not** be accepted by LFC.

5.2.6 **Infringements of CANP Airspace**

5.2.6.1 Infringements of CANP airspace will be fully investigated. If it is considered that CANP airspace has been infringed by military aircraft, and more than 4 hours pre-notification has been given in accordance with paragraph 5.2.3.1, then pilots/operators should contact LFC as soon as possible with the following information:

a) Reference Number (paragraph 5.2.2.2 refers);
b) date and time of the incident;
c) number and type of aircraft involved;
d) position and estimated profile (heading/height) of aircraft involved.

5.2.6.2 Pilots/operators should note that military light aircraft flying at an IAS of 140 KT or less, helicopters and any aircraft flying within a MATZ, need not avoid CANP airspace. However, pilots of such military aircraft will be aware of the notified activity, subject to the minimum notifying period indicated at paragraph 5.2.3.2.

5.3 **Recreational and Other Aerial Activities**

5.3.1 **Recreational Aerial Activities**

5.3.1.1 LFC invite notifications concerning certain recreational aerial activities planned to occur at or below 1000 FT AGL. Such notifications will be granted warning status under CANP and will be promulgated to military aircrew. Notifications are only required, however, when 5 or more gliders, hang-gliders and paragliders, free-flight balloons, microlight aircraft or model aircraft will be operating:

a) From a site not listed in the UK AIP for such activity; or
b) from a site listed in the UK AIP but outside the published operating hours of the site, where these are detailed.

5.3.1.2 BHPA Members may seek avoidance status when operating from one of the BHPA listed sites on weekdays (as also listed in the UK Military Low Flying Handbook). LFC must be notified by 2000 (1900) the day before flight, Monday - Thursday and by 1600 (1500) on Friday for the following Monday (excluding PH). Notification after these times will attract warning status only. LFC should be informed as soon as possible if the activity is cancelled.

5.3.1.3 Notwithstanding the provisions of paragraph 5.3.1.1(b), operators will be aware that permissions for cable launched gliding, hang-gliding and paragliding activities, to a height of more than 60 M AGL, are issued by SARG. Individual permissions will stipulate that, if activity during a weekday, it is conditional on compliance with the CANP system.

ENR 1.10 FLIGHT PLANNING (continued)

5.3.2 **Other Aerial Activities**

5.3.2.1 LFC also invites notification of the following activities:

a) Tethered and captive balloons (to a height greater than 60 M AGL);
b) kite flying, involving 5 or more kites from a specified site, (to a height greater than 60 M);
c) operations of aircraft from water;
d) any other aerial activity likely to create an exceptional concentration of aircraft at a site not listed in the UK AIP.

5.3.3 **Procedure**

5.3.3.1 E-mail or telephone notification should provide details of the intended activity as at paragraph 5.2.2.1.

Example: RECREATIONAL ACTIVITY
A - HANG-GLIDING
B - ST 187101 - UPOTTERY AERODROME, DEVON
C - 2 NM RADIUS
D - 19 NOVEMBER - 0900 to 1500 (local time)
E - N/A
F - EXPECTED NUMBER OF HANG-GLIDERS - 6
G - Telephone number of the site
H - DISCOVER AIR HANG-GLIDING GROUP (Telephone number if different to that at G).

5.3.3.2 Once a notification has been accepted, LFC will allocate a reference number which pilots/operators should retain.

5.3.3.3 The E-mail facility detailed in paragraph 5.1.6 should be used where possible for the notification of recreational activities.

5.3.4 **Pre-notification is required as in paragraph 5.2.3.1**

5.3.5 **Operating Area Boundaries**

5.3.5.1 The airspace notified should not exceed an area bounded by a 2 NM radius circle, from ground level to 1000 FT AGL.

5.3.5.2 Recreational and other aerial activities will not normally attract CANP avoidance areas; however, warnings of such activities will be promulgated to military aircrew.

5.3.6 **Cancellation**

5.3.6.1 Every reasonable attempt should be made to inform LFC as soon as it becomes obvious that an activity previously notified will no longer take place, or that the activity has been completed. Notification of a completed activity should be made irrespective of the time remaining on the CANP.

5.4 **Comments / Recommendations**

5.4.1 Users are invited to forward comments on CANP, or recommend improvements to the procedure to:

Post: Airspace Regulation, CAA, 1 NE Aviation House, Beehive Ring Road, Crawley, West Sussex, RH6 0YR
Email: airspace@caa.co.uk

6 PIPELINE AND POWERLINE INSPECTION PROCEDURES

6.1 **Introduction**

6.1.1 Pipeline and powerline inspection aircraft that operate in the airspace below 1000 FT AGL are not normally able to predict their movements with sufficient accuracy to utilise the CANP system for advising military aircraft of their activities.

6.1.2 To reduce the potential for confliction between pipeline and powerline inspecting aircraft and low-flying aircraft, a number of measures were introduced in October 1993. The system is continually monitored and updated to allow for changes to inspection procedures and profiles.

6.2 **Centralised Aviation Data Service (CADS)**

6.2.1 The use of Centralised Aviation Data Service (CADS) enables users, in the route-planning stage of a sortie, to both identify potential conflicts with the routes of other CADS users and submit and assess low level booking information to LFC. It is very much an ‘early Situational Awareness (SA)’ tool, providing a prompt for further action to ensure that aviators reduce the risk of Mid Air Collision (MAC) as far as is reasonably practicable. It provides a detailed route summary to all users.

6.2.2 Before any flight, pipeline and powerline inspection operators are encouraged to input their route into CADS*. Training on the system and the detailed procedures for using CADS are available from MAMC LFC based at 78 Squadron, Swanwick. They can

ENR 1.10 FLIGHT PLANNING (continued)

be contacted at SWK-MAMCLFCOORD@mod.gov.uk. Best endeavour is to be used to employ CADS on every sortie.

Note: ** CADS and potentially any subsequent replacement.*

6.2.3 Users should submit routes as early as practicable to maximise visibility of their plan to other users. Route detail may be updated before flight if required. Users should ensure that their route on CADS is plotted as accurately as practicable; the accuracy of each waypoint's position and the time of overflight should allow a subsequent user to gain SA of the plan and identify any potential conflict.

6.2.4 Crews should be aware that CADS only provides SA on flying activity planned by other CADS users. Furthermore, it does not allow for airborne route/timing changes due to weather or other constraints. Crews must ensure that effective lookout remains a fundamental discipline for avoiding MAC.

6.3 **Pipeline/Powerline Inspection Notification System (PINS)**

6.3.1 Pipeline/Powerline Inspection Notification System (PINS) allows for the collation of information on pipeline/powerline inspection programmes and its distribution by NOTAM.

6.3.2 Pipeline/powerline inspection aircraft pilots or their representatives should notify details of all inspection flights to LFC. For this purpose, the PINS E-mail and Freephone facilities are available during the following times:

Monday to Thursday 0700-2000 (0600-1900);
Friday 0700-1500 (0600-1400).

Note: *LFC does not operate on a 24 hour basis.*

6.3.3 E-mail notification is preferred for PINS as this allows LFC to E-mail or telephone confirmation of E-mail to the aircraft operating authority. Operators are advised that, in the interests of safety and accuracy, all telephone calls to LFC are recorded. The contact details for LFC are as follows:

Phone: 0800-515544 or 01489-443100.
Email: SWK-MAMCLFCOORD@mod.gov.uk

6.3.4 Details of planned inspection activity may be notified up to one month in advance. However, to ensure maximum effectiveness of the system, any changes to the pre-planned schedules should be passed to LFC by 1800 (1700) on the preceding weekday. Monday's schedules should be passed by 1700 (1600) on the preceding Friday. These details will be promulgated to military crews during the evening preceding the day of activity by means of a NOTAM for each weekday. The NOTAM will include a consolidated list of all PINS activity by area for the day between 0800-1700 (0700-1600). The areas notified, shown at ENR 6-20, are coincident with the Low Flying Areas of the military UKLFS with LFAs 7, 11 and 14 each subdivided into 2 further areas, but exclude military low flying Avoidance Areas and Dedicated User Areas.

6.4 **Recommended Height Profiles**

6.4.1 Aircraft engaged on pipeline inspection flights are likely to operate in the height band 500 FT to 700 FT AGL (typically 70-90 KT) where they will be above, and skylined to, the majority of military low flying aircraft that operate below 500 FT. Aircraft engaged on powerline inspection flights are likely to operate in the height band 50 FT to 200 FT AGL (typically <40 KT).

6.4.2 Since both inspection and military aircraft can be expected to operate outside of these height bands, pilots are not absolved from maintaining a good lookout and applying visual avoidance criteria. In particular, it should be noted that helicopters involved in inspections will continue, when required by the inspection, to descend in accordance with any permissions granted by the CAA in relation to the provisions of SERA.3105 Minimum Heights, SERA.5001 VMC Visibility and Distance from Cloud Minima and/or SERA.5005 Visual Flight Rules. Where circumstances dictate, helicopters may land to permit further investigation.

6.4.3 The nature of powerline inspections and the height at which they are flown is such that aircraft engaged on these duties are unlikely to conflict with the majority of low flying fast jet military aircraft except in certain specific areas shown at ENR 6-20. Inspection pilots intending to fly in these particular areas are reminded that military aircraft are authorised to fly down to 100 FT Minimum Separating Distance and that they should therefore plan their sortie accordingly. Military helicopter low flying traffic regularly conduct wires crossings at powerlines and therefore there is a requirement to notify and be vigilant, particularly in the areas shown at ENR 6-20 for helicopter activity.

6.4.4 Pipeline/Powerline inspection sorties which are able to operate within a limited area, may apply for warning status under CANP (ENR 1.10-13). This procedure is encouraged in known areas of conflict between military aircraft and inspection helicopters; 5 such areas have been specifically identified in paragraph 5. Any request for such protection should be made as far in advance as is possible through the E-mail or Freephone numbers shown at paragraph 6.3.3. The manager of the UKLFS, at LFC, 78 Squadron Swanwick, will consider requests of this nature on a case-by-case basis.

6.5 **Conspicuity**

6.5.1 Discrete Radiotelephony (RTF) callsigns and a dedicated Secondary Surveillance Radar (SSR) code have been allocated to aircraft on power and pipeline inspection flights. Thus the nature of flight will be immediately apparent to the Air Traffic Service Unit and to other aircraft operating on the frequency as soon as the initial radio transmission using the dedicated callsign is made. The

differing height profile (as per paragraph 6.4.1) and callsign should allow ATC units to understand and identify the likely inspection profile. Similarly, radar controllers will be able to detect the presence of an inspection aircraft which might not be in radio communication with that unit.

6.5.2 **RTF Callsigns**

6.5.2.1 Aircraft conducting inspection flights will use the callsign 'pipeline' or 'powerline', depending upon the nature of the task, followed by a unique numerical suffix. Hence, a helicopter carrying out a powerline inspection might use the callsign 'Powerline12'.

6.5.2.2 A list of operators and their allocated RTF numerical suffixes are listed in the table below. The WPD Helicopter Unit and the National Grid Company plc's licensed contracted operators only use callsign prefix 'Electricity' and 'Grid' respectively.

PINS Conspicuity Callsign Allocation	
Company	**Callsign Suffix**
HeliAir	44 to 47 inclusive, 66 and 100
Helicentre Aviation	81 to 85 inclusive
National Grid Company plc (Fixed & Rotary Wing)	GRID
PLM Dollar Group Limited	50 to 65 and 67 to 71 inclusive
Ravenair (Fixed Wing)	33 and 34
WPD Helicopter Unit	ELECTRICITY

6.5.3 **SSR Operating Procedures**

6.5.3.1 The special purpose SSR Code 0036 has been allocated to pipeline/powerline operations. Pilots should select this code, with Mode C, throughout the period that the aircraft is engaged in inspection activities. Unless there are overriding requirements, ATC Units should permit retention of the dedicated squawk by PINS aircraft for the benefit of adjacent radar equipped units. When in transit between the operating base and the region pilots should comply with the SSR Operating Procedures published at ENR 1.6, paragraph 2.1.3.

6.5.3.2 Air Traffic Controllers are reminded that, in accordance with Note 2 to the UK SSR Code Allocation Plan (ENR 1.6, paragraph 2.6), code 0036 must be considered as unverified and unvalidated.

6.6 **Conclusion**

6.6.1 It must be emphasised that the procedures detailed herein are advisory and that the promulgation of the activities will be in the form of warnings not avoidances. Both CADS and PINS should be used to inform all low flying traffic of potential conflictions. Failure to make pre-flight booking, either through CADS or PINS will not prevent inspection sorties taking place. Similarly, deviation from the booking is at the discretion of the helicopter pilot. The only consequence would be the inability to provide greater clarity to military crews of inspection activity.

6.6.2 Users are invited to forward comments or recommended improvements on pipeline and powerline inspection procedures to:

Post: Airspace Regulation, CAA, 1 NE Aviation House, Beehive Ring Road, Crawley, West Sussex, RH6 0YR
Email: airspace@caa.co.uk

7 MILITARY LOW FLYING TRAINING IN THE UNITED KINGDOM

7.1 **Introduction**

7.1.1 The United Kingdom Military Low Flying System (UKLFS) is sponsored by the MoD. The Safety and Airspace Regulation Group and the MoD co-sponsor this section to inform civilian pilots about military low flying training operations in the UK in the interest of mutual flight safety.

7.1.2 Low flying training remains an essential element in the tactical inventory of an effective air force and regular training in a realistic environment is essential to maintain operational capabilities. Over the UK, low flying is carried out by the Royal Air Force, Royal Navy, Army Air Corps and the UK based 16th United States Air Force. To a much lesser degree, training is also conducted by other NATO air forces.

7.2 **The United Kingdom Military Low Flying System (UKLFS)**

7.2.1 The UKLFS extends across the whole of the UK and surrounding overseas areas, from the surface to 2000 FT. This permits a wide distribution of activity, which contributes to flight safety and reduces the environmental impact of low flying. Military pilots are directed to avoid major conurbations, built up areas, Controlled Airspace (CAS), Aerodrome Traffic Zones (ATZ) and other sensitive locations. Inevitably, the protection given to these areas creates unavoidable concentrations of military low flying activity where corridors are formed between them. Where necessary, military pilots follow directional flows below 2000 FT to reduce the risk of confliction.

7.2.2 The UKLFS comprises the airspace vertically from surface to 2000 FT AGL/AMSL extending laterally to the FIR boundary. For

ease of management the airspace is sub-divided into Low Flying Areas (LFA) by day and a different structure of Night LFAs/ Sectors at night (see charts at ENR 6-20 and 6-21). Low Flying Co-ord (LFC) based at 78 Squadron Swanwick is responsible for the day-to-day management of the majority of the UKLFS. Certain LFAs, nominated as Dedicated User Areas (DUA), are allocated for special use (such as concentrated helicopter training) and are managed under local arrangements. Civil pilots should be aware that Unusual Air Activity (UAA) and night exercises are frequently conducted in DUAs including aircraft operating without, or with reduced lighting particularly when in formation. A limited amount of UAA is conducted in other areas of the UKLFS, which will usually be promulgated by AUS NOTAM.

7.2.3 In the North of Scotland, the Highlands Restricted Area (HRA) is used for special training, often in Instrument Meteorological Conditions (IMC). To ensure safety, entry by civilian and non-participating military aircraft is normally prohibited during the promulgated operating hours. The HRA is not permanently active. Activation times will be promulgated via NOTAM. See ENR 5.1.

7.2.4 UK Danger Areas are regularly used for weapons training. This can lead to an increased amount of low flying in the surrounding airspace. Details of Danger Areas can be found at ENR 5.1.

7.3 **Military Low Flying Activity**

7.3.1 Military fixed wing aircraft (except light aircraft) are considered to be low flying when less than 2000 FT Minimum Separation Distance (MSD), which is the authorised minimum separation, in all directions, between an aircraft and the ground, water or any obstacle. The lowest height at which military aircraft normally fly is 250 FT MSD. However, in three specially designated areas, known as Tactical Training Areas (TTA), located in Mid-Wales, in the Borders of Scotland and in the North of Scotland, a small number of flights may be authorised to fly down to 100 FT MSD. Military light propeller aircraft and helicopters are considered to be low flying when operating below 500 FT MSD. In practice, most military low flying takes place between 250 FT and 500 FT MSD, decreasing in intensity up to 1000 FT MSD and reducing further in the 1000 FT to 2000 FT height band. Occasionally, however, military aircraft perform high-energy manoeuvres between 250 FT and 2000 FT, during which rapid changes in height, speed and direction of the aircraft will occur.

7.3.2 The vast majority of low flying training is conducted on weekdays between 0700-2300 (0600-2200), although a limited amount may take place outside these times or at weekends. Fast jet aircraft are normally limited to a cruising speed of 450 KT, although speeds of up to 500 KT can be authorised for short periods during simulated attacks and practice interceptions. Of course, light propeller aircraft and helicopters operate at much lower speeds.

7.3.3 Most low flying takes place in the UK Flight Information Regions (FIR), outside CAS, where ground radio and radar coverage is not adequate to provide a radar service to military aircraft flying at low level. It would be equally impractical for military jet aircraft to achieve deconfliction by contacting ATC units. Military low flying is only conducted in Visual Meteorological Conditions (VMC), where pilots not only fly with visual reference to the surface, but also apply the ‘see and avoid’ principle regarding other aircraft. The exception to this rule is low flying in the HRA, when active, which is regularly conducted in limited visibility using terrain following radar.

7.3.4 LFC based at 78 Squadron Swanwick disseminates information on hazards and restrictions, including Civil Aircraft Notification Procedure (CANP) and some recreational aviation activities, to military aircrews via a military NOTAM distribution network. It is also possible for some late warnings to be passed to aircrew by telephone before flight, but once airborne, because of high transit speeds, frequency distribution and terrain screening, there is a limit on the extent to which ground to air communications can be maintained.

7.4 **Civilian Low Flying**

7.4.1 Civilian pilots engaged in low level aerial work might be subject to aircraft manoeuvring limitations and/or restricted lookout. CANP exists to provide military aircrews with information on civil aircraft below 1000 FT AGL engaged in crop spraying, photography, surveys or helicopters carrying under-slung loads. Military aircraft flying at speeds in excess of 140 KT will avoid the notified CANP areas of operation either laterally or vertically, with a separation of not less than 500 FT. Recreational activities will not normally attract CANP avoidance areas, but military aircrew will take account of some specified activities when planning low flying sorties. Information on the use of CANP is published at ENR 1.10, paragraph 5.

7.4.2 To reduce the risk of confliction with low flying military aircraft, civilian pilots conducting transit flights under Visual Flight Rules (VFR) during the working week are recommended to fly above 2000 FT AGL if possible. In particular, they should avoid operating in the 250 FT to 1000 FT height band. When departing from aerodromes in the FIR, pilots should endeavour to reach 1000 FT as quickly as possible, and to delay descent below 1000 FT for as long as possible when approaching such aerodromes. Military pilots are directed to avoid ATZs. Where an ATZ is established, civilian pilots are recommended to fly circuits and procedures within the ATZ as far as they can. In the vicinity of aerodromes without an ATZ military pilots will apply the ‘see and avoid’ principle.

7.5 **Conclusion**

7.5.1 In UKLFS airspace, as elsewhere in the FIR, deconfliction depends on pilots seeing and avoiding other aircraft. Civilian pilots can make a considerable contribution to flight safety by flying above 1000 FT whenever possible and remaining aware that some military flying occurs in the 1000 FT to 2000 FT height band.

ENR 1.10 FLIGHT PLANNING (continued)

SAFETY AND AIRSPACE REGULATION GROUP

CIVIL LOW FLYING/AERIAL ACTIVITY

COMMERCIAL* / RECREATIONAL* / OTHER*

Description of Activity .....

Timing: **START** Date ..... Time ..... (Local)

FINISH Date ..... Time ..... (Local)

Location: **1:50,000 OS Grid Ref** .....

or

Lat and Long N ..... *E/W .....

Radius .....NM

Route or Multiple Positions

Position	Radius of Operation	Times (Local)

Height: Upper Height..... FT AGL

Type of Aircraft ..... No of Aircraft .....

Contact No: Fax..... Tel .....

Name..... Company Tel No .....

Company*/Club*/Individual*

Official Use Only -

Time Authentication:	Reference Number:	LFC Ops Initials:

CONFIRMATION MUST BE OBTAINED FROM LFC BEFORE FLIGHT

*Delete as required

CA 2366

ENR 1.11 ADDRESSING OF FLIGHT PLAN MESSAGES

1 IFR Flight plan addressing

1.1 An IFR Flight Plan is to be addressed as follows (add all addresses that apply):

Route	Message Address
Flight wholly within the IFPS Zone (ENR 1.10 refers)	EUCHZMFP and EUCBZMFP **or use** IFPS collective address EGZYIFPS
Within the Shanwick OCA and FIR	EUCHZMFP and EUCBZMFP
Flights which will transit the SOTA	EUCHZMFP and EUCBZMFP
Flights which will transit the BOTA	LFRRZQZX
Flights requiring a service from Swanwick Military	EGZYOATT
Flight or part of flight outside the IFPS Zone	As detailed in the AIP of the State or country flown through – see note.

2 Mixed IFR/VFR Flight plan addressing

2.1 The IFR portion of a mixed mode (IFR/VFR) Flight Plan is to be addressed as per the table above; the VFR portion is to be addressed as per the guidance below.

3 VFR Flight plan addressing

3.1 A VFR Flight Plan is to be addressed to the Departure and Destination aerodrome (ICAO Location Indicator + ZTZX) plus any additional addresses as specified in the tables below (add all addresses that apply):

Aerodrome	Requirement
EGAC (Belfast/City)	Add EGAAZTZX (Aldergrove ARO)
EGBE (Coventry)	Add EGBBZTZX (Birmingham ATC)
EGEC (Campbeltown)	Add EGPEZEZA
EGFF (Cardiff)	Add EGFFZIZF (for VFR departures from Cardiff and VFR flight plans requiring onward transmission) Add EGFFFDMS (for all VFR or IFR departures from Cardiff)
EGHH (Bournemouth)	Add EGHIZTZX (Southampton Zone)
EGLK (Blackbushe)	Add EGLFZTZX (Farnborough ATC)
EGNH (Blackpool)	Add EGNOZTZX (Warton Approach)
EGNL (Walney)	Add EGNOZTZX (Warton Approach)
EGPA (Kirkwall)	Add EGPEZEZA
EGPB (Sumburgh) and any other Shetland Isles aerodrome/destination	Add EGPDZTZX Add EGPEZEZA
EGPC (Wick)	Add EGPEZEZA
EGPE (Inverness)	Add EGPEZEZA
EGPH (Edinburgh)	Add EGPHZGZX
EGPI (Islay)	Add EGPEZEZA
EGPL (Benbecula)	Add EGPEZEZA
EGPN (Dundee)	Add EGPEZEZA
EGPO (Stornoway)	Add EGPEZEZA
EGPR (Barra)	Add EGPEZEZA
EGPU (Tiree)	Add EGPEZEZA
EGSY (St Athan)	Add EGFFZTZX
EGTF (Fairoaks)	Add EGLFZTZX

Route	Address
Entering or remaining within Scottish FIR/UIR	EGZYVFRP
Entering or remaining within London FIR/UIR	EGZYVFRT
Within the Shanwick Oceanic FIR	EGGXZOZX
Entering or remaining within Channel Islands CTR or CTAs	EGJJZRZX
Entering any Aberdeen ATSU Off-shore Area of Responsibility (shown at ENR 6-23)	EGPDZTZX
Any flight or portion of flight through an FIR of a neighbouring state (eg Cross Channel flight)	As detailed in the AIP of the State or country flown through – see note.

Note: *AIPs for all Eurocontrol states can be downloaded free of charge from the Eurocontrol Website at: http://www.ead.eurocontrol.int/eadcms/eadsite/index.php.html*

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ENR 1.12 INTERCEPTION OF CIVIL AIRCRAFT

1 Notification

1.1 The procedure to be followed by the pilot-in-command of an intercepted aircraft and visual signals for use by intercepting and intercepted aircraft listed below are hereby notified for the purposes of the UK Air Navigation Order.

1.2 Under Article 9 of the Convention on International Civil Aviation, each contracting State reserves the right for reasons of military necessity or public safety, to restrict or prohibit the aircraft of other States from flying over certain areas of its territory.

1.3 The Regulations of a State may prescribe the need to investigate the identity of aircraft. Accordingly, it may be necessary to lead an aircraft of another nation, which has been intercepted, away from a particular area (such as a prohibited area) or, an intercepted aircraft may be required to land for security reasons at a designated aerodrome.

1.4 To avoid the interception of civil aircraft, adherence to flight plans and ATC procedures and the maintenance of a listening watch on the appropriate ATC frequency, make the possibility of interception highly improbable. If the identity of an aircraft is in doubt, all possible efforts will be made to secure identification through the appropriate Air Traffic Service Units.

1.5 As interception of civil aircraft are, in all cases, potentially hazardous, the interception procedures will only be used as a last resort.

1.6 The word 'interception' does not include the intercept and escort service provided on request to an aircraft in distress in accordance with Search and Rescue procedures.

1.7 An aircraft which is intercepted by another aircraft shall immediately:

a) Follow the instructions given by the intercepting aircraft, interpreting and responding to visual signals in accordance with the tables at ENR 1-12-2;
b) notify, if possible, the appropriate Air Traffic Services Unit;
c) attempt to establish radio communication with the intercepting aircraft or with the appropriate intercept control unit, by making a general call on the emergency frequency 121.500 MHz, giving the identity of the intercepted aircraft and the nature of the flight; and if no contact has been established and if practicable, repeating this call on the emergency frequency 243 MHz;
d) if equipped with SSR transponder, select Mode A, Code 7700 and Mode C, unless otherwise instructed by the appropriate Air Traffic Services Unit.

1.8 If radio contact with the intercepting aircraft is established but communication in a common language is not possible, attempts shall be made to convey essential information and acknowledgement of instructions by using the following phrases and pronunciations:

Phrase	Pronunciation	Meaning	Phrase	Pronunciation	Meaning
Callsign	**Kol** sa - In	My callsign is (callsign)	Mayday	**Mayday**	I am in distress
Wilco	**Vill** - Ko	Understood will comply	Hijack	**Hi - Jack**	I have been hijacked
Can Not	**Kann** Nott	Unable to comply	Land (place name)	Laand (place name)	I request to land at (place name)
Repeat	Ree - **Peet**	Repeat your instruction	Descend	Dee - **Send**	I require descent
Am Lost	**Am Losst**	Position unknown			

Note 1: *The callsign required to be given is that used in radiotelephony communications with Air Traffic Services Units and corresponding to the aircraft identification in the flight plan.*

Note 2: *Circumstances may not always permit, nor make desirable, the use of the phrase 'HIJACK'.*

1.9 The following phrases are expected to be used by the intercepting aircraft in the circumstances described above: (SERA.11015 Interception Table S11-3 refers).

Phrase	Pronunciation	Meaning	Phrase	Pronunciation	Meaning
Callsign	**Kol** sa - In	What is your callsign?	You Land	**You Laand**	Land at this aerodrome
Follow	**Fol** - Lo	Follow me	Proceed	Pro - **Seed**	You may proceed
Descend	Dee - **Send**	Descend for landing			

1.10 If any instructions received by radio from any sources conflict with those given by the intercepting aircraft by signals, the intercepted aircraft shall request immediate clarification while continuing to comply with the visual instructions given by the intercepting aircraft.

1.11 If any instructions received by radio from any sources conflict with those given by the intercepting aircraft by radio, the intercepted aircraft shall request immediate clarification while continuing to comply with the radio instructions given by the intercepting aircraft.

ENR 1.12 INTERCEPTION OF CIVIL AIRCRAFT (continued)

2 SIGNALS FOR USE IN THE EVENT OF INTERCEPTION

Signals initiated by intercepting aircraft and responses by intercepted aircraft				
Series	**INTERCEPTING Aircraft Signals**	**Meaning**	**INTERCEPTED Aircraft Responds**	**Meaning**
1	DAY-Rocking wings from a position slightly above and ahead of, and normally to the left of, the intercepted aircraft and, after acknowledgement, a slow level turn, normally to the left, on to the desired heading. NIGHT-Same and, in addition, flashing navigational lights at irregular intervals. ***Note 1:*** *Meteorological conditions or terrain may require the intercepting aircraft to take up a position slightly above and ahead of, and to the right of the intercepted aircraft and to make the subsequent turn to the right.* ***Note 2:*** *If the intercepted aircraft is not able to keep pace with the intercepting aircraft, the latter is expected to fly a series of race-track patterns and to rock its wings each time it passes the intercepted aircraft.*	You have been intercepted. Follow me.	**AEROPLANES:** DAY-Rocking wings and following. NIGHT-Same and, in addition, flashing navigational lights at irregular intervals. **HELICOPTERS:** DAY or NIGHT-Rocking aircraft, flashing navigational lights at irregular intervals and following. ***Note:*** *Additional action required to be taken by intercepted aircraft is prescribed in paragraphs 1.7, 1.8, 1.9, 1.10 and 1.11 on ENR 1-12-1.*	Understood, will comply.
2	DAY or NIGHT-An abrupt breakaway manoeuvre from the intercepted aircraft consisting of a climbing turn of 90 degrees or more without crossing the line of flight of the intercepted aircraft.	You may proceed.	**AEROPLANES:** DAY or NIGHT- Rocking wings. **HELICOPTERS:** DAY or NIGHT-Rocking aircraft.	Understood, will comply.
3	DAY-Circling aerodrome, lowering landing gear and overflying runway in the direction of landing or, if the intercepted aircraft is a helicopter, overflying the helicopter landing area. NIGHT-Same and, in addition, showing steady landing lights.	Land at this aerodrome.	**AEROPLANES:** DAY-Lowering landing gear, following the intercepting aircraft and, if after over-flying the runway landing is considered safe, proceeding to land. NIGHT-Same and, in addition, showing steady landing lights (if carried). **HELICOPTERS:** DAY or NIGHT-Following the intercepting aircraft and proceeding to land, showing a steady landing light (if carried).	Understood, will comply.

Signals initiated by intercepted aircraft and responses by intercepting aircraft				
Series	**INTERCEPTED Aircraft Signals**	**Meaning**	**INTERCEPTING Aircraft Responds**	**Meaning**
4	**AEROPLANES:** DAY-Raising landing gear while passing over landing runway at a height exceeding 300 m (1000 ft) but not exceeding 600 m (2000 ft) above the aerodrome level, and continuing to circle the aerodrome. NIGHT-Flashing landing lights while passing over landing runway at a height exceeding 300 m (1000 ft) but not exceeding 600 m (2000 ft) above the aerodrome level, and continuing to circle the aerodrome. If unable to flash landing lights, flash any other lights available.	Aerodrome you have designated is inadequate.	DAY or NIGHT-If it is desired that the intercepted aircraft follow the intercepting aircraft to an alternate aerodrome, the intercepting aircraft raises its landing gear and uses the Series 1 signals prescribed for intercepting aircraft. If it is decided to release the intercepted aircraft, the intercepting aircraft uses the Series 2 signals prescribed for intercepting aircraft.	Understood, follow me. Understood, you may proceed.
5	**AEROPLANES:** DAY or NIGHT- Regular switching on and off all available lights but in such a manner as to be distinct from flashing lights.	Cannot comply.	DAY or NIGHT-Use Series 2 signals prescribed for intercepting aircraft.	Understood.
6	AEROPLANES: DAY or NIGHT-Irregular flashing of all available lights. HELICOPTERS: DAY or NIGHT-Irregular flashing of all available lights.	In distress.	DAY or NIGHT-Use Series 2 signals prescribed for intercepting aircraft.	Understood.

ENR 1.13 UNLAWFUL INTERFERENCE

1 An aircraft which is being subjected to unlawful interference shall endeavour to notify the appropriate ATS Unit of this fact, any significant circumstances associated therewith and any deviation from the current flight plan necessitated by the circumstances, in order to enable the ATS Unit to give priority to the aircraft and to minimize conflict with other aircraft.

1.1 If an aircraft is subjected to unlawful interference, the pilot- in-command shall attempt to land as soon as practicable at the nearest suitable aerodrome or at a dedicated aerodrome assigned by the appropriate authority unless considerations aboard the aircraft dictate otherwise.

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ENR 1.14 AIR TRAFFIC INCIDENTS

1 AIRPROX Reporting - General

1.1 An AIRPROX report should be made whenever a situation occurs in which, in the opinion of a pilot or air traffic services personnel, the distance between aircraft as well as their relative positions and speed have been such that the safety of the aircraft involved may have been compromised.

2 AIRPROX in UK Airspace

2.1 The UK Airprox Board (UKAB) investigates AIRPROX that occur in UK airspace. AIRPROX reports may be initiated by pilots or air traffic services (ATS) personnel and will be co-ordinated subsequently by the UKAB. Where the event meets Mandatory Occurrence Report (MOR) criteria an MOR should also be submitted to the CAA.

3 AIRPROX Reporting Procedures

3.1 Investigations are sometimes made more difficult due to the delay caused by the correct reporting procedure not being followed; those involved may not be aware that an AIRPROX report has been filed. In some cases, it is not possible to trace the other pilot, documentation or recordings may not have been preserved, or the ATS personnel involved may not be able to recollect the incident. Radar and R/T recordings are only preserved for 30 days unless requested to be held for longer by the relevant investigating authorities. Pilots and ATS personnel are therefore reminded that the appropriate procedure for reporting an AIRPROX occurrence is as follows.

3.2 **Immediate Actions - Pilots**

3.2.1 Those in communication with an ATS or listening out should make an initial report of an AIRPROX as soon as practicable, by radio, to the ATS Unit that they are with. They should prefix the message with the word "AIRPROX". Such initial reports act as an important trigger to allow the ATS unit involved to preserve any information relevant to the incident, and for the controllers involved to note the circumstances of the incident for use in future investigations.

3.2.2 Those not in communication with an ATS or not listening out at the time of the AIRPROX should make an initial report, by radio, as soon as practicable on contact with the next ATS.

3.2.3 If the AIRPROX cannot be reported by radio, an initial report should be made by the pilot immediately after landing, preferably using the UKAB App (see paragraph 3.4). This also allows submission should the report be submitted from a destination outside UK airspace.

3.3 **Immediate Actions - Air Traffic Services Personnel**

3.3.1 Whenever ATS personnel operating within UK airspace (including the Shanwick Oceanic FIR) or airspace of another state where the provision of ATS has been delegated to the UK, initiate an AIRPROX report or receive notification of an AIRPROX from either a pilot or the UKAB, it should be submitted as an AIRPROX MOR in accordance with current MOR reporting procedures. The AIRPROX MOR should be submitted as soon as possible using a form specifically designed for AIRPROX reporting. If no such form exists contact the UKAB for advice.

3.3.2 ATS personnel initiating an AIRPROX should not notify the pilots concerned whilst they are airborne but may inform them after landing. The UKAB will initiate tracing of the pilots involved as soon as possible after receipt of the initial ATS AIRPROX report.

3.4 **The AIRPROX Report**

3.4.1 A formal written report should be submitted within seven days of the incident, regardless of whether it was announced on the radio at the time. This allows for more accurate recollection of the event, both for those reporting and for other parties involved once they have been traced and contacted.

3.4.2 AIRPROX reports should be submitted either by:

i. The UKAB App; or
ii. CA1094 form. These should be sent to:

Email: contact@airproxboard.org.uk
Post: Director UK AIRPROX Board, Building 59, RAF Northolt, West End Road, Ruislip, Middlesex, HA4 6NG.
Fax: 0208-842 6056

UKAB will accept company reports but may request that an AIRPROX report also be submitted to ensure all required information is included.

3.4.3 All AIRPROX reports are subject to an initial review upon receipt. They will then receive thorough analysis based on the available evidence. The originator of the report and all aircraft operators and ATS agencies involved will be advised that the report has been received and that the analysis is under way. A request will be made for all those involved to submit reports of their recollections of

the AIRPROX.

3.5 **Military Personnel - Reporting of AIRPROX**

3.5.1 Military pilots and ATS personnel should refer to the appropriate regulations within MRP RA 1410 for AIRPROX reporting through the Defence Air Safety Occurrence Report (DASOR) system within the MAA's Air Safety Information Management System (ASIMS).

3.6 **AIRPROX Report Submission**

3.6.1 The most effective means of AIRPROX submission is by using the UKAB App, which is available for iOS or Android from the UKAB website: www.airproxboard.org.uk. CA1094 forms are also available from the UKAB website.

4 AIRPROX Analysis

4.1 The sole reason for assessment of AIRPROX by the UKAB is to enhance air safety by identifying associated lessons or proposing improvements in procedures and/or regulations. It is not the purpose of the UKAB to apportion blame or liability but simply to determine the factors that contributed to the AIRPROX and the risk of collision. All AIRPROX reports are published on the UKAB website at www.airproxboard.org.uk.

5 AIRPROX Assessment

5.1 Following appropriate analysis, the UKAB (a panel of civil and military pilots and air traffic services personnel from diverse aviation backgrounds) assesses each AIRPROX to determine contributory factors and the degree of risk. The UKAB may also make safety recommendations as the Board members deem appropriate.

5.2 Once each AIRPROX case is reviewed (i.e. the analysis and assessment stages have been completed), the pilots and ATS personnel involved in the AIRPROX, and their respective operating bodies, will be advised of the findings and asked to submit any factual inaccuracies prior to final release of the report. All AIRPROX reports and assessments are published at regular intervals.

Note: *The conclusions reached by the UKAB have no legal significance, and the anonymity of individuals and companies involved in an AIRPROX is preserved throughout the assessment and by dis-identifying reports in the subsequent publication process.*

5.3 Operators, pilots and ATS personnel who seek further information on any AIRPROX are requested to only contact the UKAB and not any other organisations involved.

6 AIRPROX in Foreign Airspace

6.1 Whilst the CAA has no authority to investigate any AIRPROX in foreign airspace, it is concerned about them particularly when UK public transport aircraft are involved. Accordingly, for these aircraft, copies of confirmatory reports made to foreign authorities and details of any response received from them are to be sent to SDD. This satisfies the MOR requirements. The CAA expects commanders/operators of the aircraft to initiate, confirm and follow through AIRPROX reports directly with the foreign authorities themselves in accordance with the appropriate national procedures. The Authority will, however, assist reporters where they have difficulty in following national procedures or in obtaining a response. Assistance may be obtained from the International Directorate, Civil Aviation Authority, 3W, Aviation House, Gatwick Airport South, West Sussex RH6 0YR (Tel: 01293-573815). The CAA may also take action of its own accord with a foreign authority on receipt of a report or follow-up where, for instance, from its knowledge of previous occurrences, it considers this necessary.

6.2 **Initial Report**

6.2.1 The procedure for reporting AIRPROX, as described in the appropriate State's AIP, should be followed.

6.3 **Follow Up Report**

6.3.1 The State's follow up procedure should be adhered to. In addition, a copy of the AIRPROX report on the State's form and an MOR should be sent to SDD.

6.3.2 If there is likely to be an appreciable delay in the transmission of a report, or the AIRPROX is considered particularly serious, the report to SDD should be sent via email. The message should be prefixed AIRPROX.

6.3.3 It is essential that where the form used may apply to an AIRPROX or ATC incident, the originator clearly annotates it as an AIRPROX.

6.3.4 AIRPROX and ATC Incident occurrences involving UK public transport aircraft in foreign airspace will be published in the SDD monthly listings for the information and action, where appropriate, of other UK operators likely to use the same airspace.

6.4 **Investigation of the Occurrence**

6.4.1 Providing that the initial and confirmatory reporting procedure has been followed, an investigation should be carried out by the appropriate foreign authority and the commander/operator advised of the findings and any preventive action taken. When a response is received, the commander/operator should pass the details to SDD indicating whether or not they are satisfied with the

ENR 1.14 AIR TRAFFIC INCIDENTS (continued)

outcome.

6.4.2 If the commander or operator is not satisfied and/or the CAA does not consider the outcome adequate, then further action may be taken with the authority concerned.

7 ATC Incidents

7.1 **In Foreign Airspace - UK Pilots/Operators**

7.1.1 The procedures in the State's AIP should be followed.

7.1.2 The MOR should be clearly annotated 'ATC Incident'.

7.1.3 The amount of attention accorded to incidents varies from State to State and it may be advisable on occasions to seek the assistance of the CAA in follow-up.

7.2 **In UK Airspace - Foreign Pilots/Operators**

7.2.1 Foreign pilots/operators may submit a report, regarding an ATC incident (which is not an AIRPROX) occurring in UK Airspace, into their own state reporting system under EU 376/2014. If an issue has been raised with the UK ANSP then the ANSP can report the event to SDD. Other states may be contacted if the SDD are made aware of the incident by UK parties.

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ENR 2 AIR TRAFFIC SERVICES AIRSPACE

ENR 2.1 FIR, UIR, TMA AND CTA

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDON FIR 550000N 0050000E - 513000N 0020000E - 510700N 0020000E - 510000N 0012800E - 504000N 0012800E - 500000N 0001500W following the line of latitude to - 500000N 0020000W - 485000N 0080000W - 510000N 0080000W - 522000N 0053000W - 550000N 0053000W following the line of latitude to - 550000N 0050000E Upper limit: FL245 Lower limit: FL195 Class: C Upper limit: FL195 Lower limit: SFC Class: G	LONDON ACC	LONDON CONTROL English H24	118.480 118.825 119.780 120.180 120.475 120.530 121.030 121.230 121.280 123.905 124.930 126.080 126.780 126.875 127.105 127.430 127.700 127.830 127.880 128.130 128.160 128.430 128.480 128.815 129.025 129.050 129.080 129.205 129.280 129.380 129.430 129.605 130.925 132.165 132.605 132.840 132.860 132.950 133.080 133.180 133.525 133.600 133.705 133.940 133.975 134.125 134.250	LONDON CONTROL: Note 1: The Le Touquet Terminal Control Area extends into the London FIR between: 504500N 0012800E - 503800N 0011500E and 503600N 0011900E. Vertical limits: 1000 FT ALT - FL 65. See AIP France. Note 2: FIS boundaries do not coincide with FIR boundaries. Note 3: FIS sectors are depicted at ENR 6-32. Note 4: Western Radar sectors are depicted at ENR 6, 6-15. WESTERN RADAR: FL 195 / FL 100 (and between FL 195 to FL 245 within an active TRA) Class of Airspace: G Note: Western Radar Area of Operation is described at ENR 1.6, subsection 4.4.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
			134.390	
			134.440	
			134.460	
			134.755	
			134.905	
			135.055	
			135.250	
			135.255	
			135.425	
			135.580	
			136.200	
			136.275	
			136.550	
			136.600	
	SCOTTISH ACC	SCOTTISH CONTROL English H24	118.780	
			119.530	
			128.055	
			133.050	
			133.200	
			133.800	
			134.430	
			135.715	
	WESTERN RADAR	WESTERN RADAR English 0645-1930 (0545-1830).	131.050	
			132.300	
	LONDON ACC	LONDON INFORMATION English H24	124.600 FIS (Notes 2 and 3) (See latest NOTAM).	
			124.750 FIS (Notes 2 and 3) (See latest NOTAM).	
			125.475 FIS (Notes 2 and 3) (See latest NOTAM).	
		LONDON CENTRE English H24	121.500 Emergency frequency.	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
SCOTTISH FIR 610000N 0000000E - 600000N 0000000E - 570000N 0050000E - 550000N 0050000E following the line of latitude to - 550000N 0053000W - 535500N 0053000W - 542500N 0081000W - 552000N 0065500W - 552500N 0072000W - 552000N 0081500W - 544500N 0090000W - 543400N 0100000W - 610000N 0100000W following the line of latitude to - 610000N 0000000E Upper limit: FL245 Lower limit: FL195 Class: C Upper limit: FL195 Lower limit: SFC Class: G	SCOTTISH ACC	SCOTTISH CONTROL/ INFORMATION English H24	119.875 0800-2000 (0700-1900) when directed by ATC. FIS (Note 6)	Note 1: Callsign Scottish Control will be used when Control service is being provided, otherwise callsign Scottish Information will be used. Traffic flying within or beneath the Scottish TMA requiring FIS should call Scottish Information. Note 2: FIS boundaries do not coincide with FIR boundaries. Note 3: FIS sectors are depicted at ENR 6-33. Note 4: Aircraft in the Shetland area experiencing difficulty with Scottish FIS may call Sumburgh Approach on 131.300 MHz during its hours of operation. Note 5: Frequencies may not be available H24 at all levels in all relevant sectors, see ENR 6-33. Note 6: Available at or below FL 55. Outside of these hours, if contact cannot be established on the nominated frequency for Area H (see ENR 6-33) then contact 119.875 MHz which is monitored H24.
			121.325 (Notes 2 and 3)	
			121.375	
			123.775 FIS (Notes 2 and 3)	
			124.500 FIS (Notes 2 and 3)	
			124.825	
			125.950	
			126.300	
			127.275 FIS (Notes 2, 3 and 5)	
			128.675 FIS (Notes 2 and 3)	
			130.975	
			133.875	
			134.775 FIS (Notes 2 and 3)	
			134.850 FIS (Notes 2, 3 and 4)	
		LONDON CENTRE English H24	121.500 Emergency frequency.	
SHANWICK OCEANIC FIR 610000N 0300000W following the line of latitude to - 610000N 0100000W - 543400N 0100000W - 540000N 0150000W - 510000N 0150000W following the line of latitude to - 510000N 0080000W - 450000N 0080000W following the line of latitude to - 450000N 0300000W - 610000N 0300000W Upper limit: UNL Lower limit: FL55 Class: A Upper limit: FL55 Lower limit: SFC Class: G	SHANWICK OAC	SHANWICK OCEANIC English	123.950	
LONDON UIR Same extent as LONDON FIR Upper limit: FL660 Lower limit: FL245 Class: C	LONDON ACC	H24		LONDON ACC: All the Airspace at and above FL 245 within the same horizontal limits as the London FIR. Airspace btn FL 290 and FL 410 inclusive is notified as RVSM airspace. Frequencies as per the London FIR.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	118.780	
			133.050	
			133.800	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
SCOTTISH UIR Same extent as SCOTTISH FIR Upper limit: FL660 Lower limit: FL245 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.325 121.375 123.775 124.500 124.825 125.680 125.950 126.300 126.930 127.275 128.675 129.100 129.225 132.490 132.730 133.680 133.875 134.775 134.850 135.530 135.855	All the Airspace at and above FL 245 within the same horizontal limits as the Scottish FIR. Airspace btn FL 290 and FL 410 inclusive is notified as RVSM airspace. Airspace btn FL 290 and FL 410 inclusive is notified for the purpose of transitioning non-RVSM approved aircraft operating to and from the North Atlantic Region.
SHANWICK OCEANIC CONTROL AREA (OCA) 610000N 0300000W following the line of latitude to - 610000N 0100000W - 543400N 0100000W - 540000N 0150000W - 510000N 0150000W following the line of latitude to - 510000N 0080000W - 450000N 0080000W following the line of latitude to - 450000N 0300000W - 610000N 0300000W Upper limit: UNL Lower limit: FL55 Class: A	SHANWICK OAC	SHANWICK OCEANIC English		For COM, see ENR 2.2 para 3.9.11. Areas of the Shanwick OCA are subject to the delegated provision of ATS: NOTA - Shannon ACC; SOTA - Shannon ACC; BOTA - Brest ACC. See ENR 2.2 para 3.1 for details.
ABERDEEN CTA 1 572153N 0015835W - 572100N 0015802W - 572100N 0023356W thence clockwise by the arc of a circle radius 10 NM centred on 571834N 0021602W to - 572153N 0015835W Upper limit: FL115 Lower limit: 1500 FT ALT Class: D	ABERDEEN APP	ABERDEEN RADAR English	119.055 DOC 55 NM/25,000 FT.	The Airspace remains notified even though the Controlling Authority may not be monitoring the frequency at all times. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
ABERDEEN CTA 2 571522N 0015428W - 570845N 0015019W thence clockwise by the arc of a circle radius 10 NM centred on 570531N 0020740W to 570214N 0022458W - 570850N 0022913W thence anti-clockwise by the arc of a circle radius 10 NM centred on 571207N 0021152W to - 571522N 0015428W Upper limit: FL115 Lower limit: 1500 FT ALT Class: D	ABERDEEN APP	ABERDEEN RADAR English	119.055 DOC 55 NM/25,000 FT.	The Airspace remains notified even though the Controlling Authority may not be monitoring the frequency at all times. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
ABERDEEN CTA 3 572100N 0023356W - 570015N 0025056W - 565433N 0023557W - 565533N 0020635W thence clockwise by the arc of a circle radius 10 NM centred on 570531N 0020740W to 570214N 0022458W - 571520N 0023326W thence clockwise by the arc of a circle radius 10 NM centred on 571834N 0021602W to - 572100N 0023356W Upper limit: FL115 Lower limit: 3000 FT ALT Class: D	ABERDEEN APP	ABERDEEN RADAR English	119.055 DOC 55 NM/25,000 FT.	The Airspace remains notified even though the Controlling Authority may not be monitoring the frequency at all times. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
ARGYLL CTA 1 561844N 0054648W - 560727N 0050308W - 560127N 0044028W - 560000N 0044400W - 555356N 0045343W - 555825N 0051042W - 560939N 0055411W - 561844N 0054648W Upper limit: FL195 Lower limit: 5500 FT ALT Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part of ATS Route L602 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
ARGYLL CTA 2 564819N 0062031W - 561807N 0054423W - 561844N 0054648W - 560939N 0055411W - 562501N 0065609W - 563408N 0064847W - 562552N 0061508W - 564248N 0063539W - 564819N 0062031W Upper limit: FL195 Lower limit: FL115 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part of ATS Route L602 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
ARGYLL CTA 3 553039N 0053655W - 552543N 0050000W - 551527N 0050000W - 552057N 0054102W - 553039N 0053655W Upper limit: FL195 Lower limit: FL105 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part ot ATS Route N562 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
ARGYLL CTA 4 564819N 0062031W - 561807N 0054423W - 560727N 0050308W - 560127N 0044028W - 560000N 0044400W - 555356N 0045343W - 555825N 0051042W - 560939N 0055411W - 562501N 0065609W - 563408N 0064847W - 564248N 0063539W - 564819N 0062031W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Parts of ATS Routes L602 and Y958 are incorporated within this CTA.
ARGYLL CTA 5 560506N 0100000W - 554802N 0073952W - 553039N 0053655W - 552543N 0050000W - 551527N 0050000W - 552044N 0053924W - 551324N 0070414W - 552000N 0065500W - 552302N 0071008W - 552710N 0062313W - 553817N 0074336W - 555454N 0100000W - 560506N 0100000W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part of ATS Routes N552 and N562 are incorporated within this CTA.
BALDER CTA 590504N 0013916E - 581110N 0030955E - 575615N 0015615E - 582600N 0012855E - 590504N 0013916E Upper limit: FL85 Lower limit: 1500 FT ALT Class: D	POLARIS ACC	POLARIS CONTROL English H24	134.200	Mandatory carriage of ADS-B equipment.
BANBA CTA 520049N 0060720W - 514034N 0060027W - 512400N 0065305W - 512528N 0071351W - 520049N 0060720W Upper limit: FL660 Lower limit: FL195 Class: C	SHANNON ACC	SHANNON CONTROL English H24	131.150 132.150	ATS within the BANBA CTA is delegated to Shannon ACC.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
BELFAST/CITY CTA 1 542802N 0060613W - 543121N 0060219W - 542739N 0055306W - 542422N 0055701W - 542802N 0060613W Upper limit: 2000 FT ALT Lower limit: 1500 FT ALT Class: D	BELFAST APP	BELFAST APPROACH English 0630-2130 (0530-2030).	130.850 DOC 40 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: The actual time of the switch of frequencies in the evening can vary depending on traffic delays.
		BELFAST RADAR English As directed by ATC.	134.800 DOC 40 NM/15,000 FT.	
	BELFAST ALDERGROVE APP	ALDERGROVE RADAR English 2130-0630 (2030-0530). Note 1	133.125	
BELFAST/CITY CTA 2 544431N 0054635W - 545014N 0053939W - 544632N 0053024W - 544048N 0053721W - 544431N 0054635W Upper limit: 2000 FT ALT Lower limit: 1500 FT ALT Class: D	BELFAST APP	BELFAST APPROACH English 0630-2130 (0530-2030).	130.850 DOC 40 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: The actual time of the switch of frequencies in the evening can vary depending on traffic delays.
		BELFAST RADAR English As directed by ATC.	134.800 DOC 40 NM/15,000 FT.	
	BELFAST ALDERGROVE APP	ALDERGROVE RADAR English 2130-0630 (2030-0530). Note 1	133.125	
BELFAST/CITY CTA 3 542422N 0055701W - 544632N 0053024W - 544449N 0052608W - 542016N 0054647W - 542422N 0055701W Upper limit: 3500 FT ALT Lower limit: 2000 FT ALT Class: D	BELFAST APP	BELFAST APPROACH English 0630-2130 (0530-2030).	130.850 DOC 40 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: The actual time of the switch of frequencies in the evening can vary depending on traffic delays.
		BELFAST RADAR English As directed by ATC.	134.800 DOC 40 NM/15,000 FT.	
	BELFAST ALDERGROVE APP	ALDERGROVE RADAR English 2130-0630 (2030-0530). Note 1	133.125	
BERRY HEAD CTA 1 511115N 0032929W - 511010N 0031341W - 504336N 0031822W - 504441N 0033401W - 511115N 0032929W Upper limit: FL195 Lower limit: FL65 Minimum limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Part of ATS Routes N40, N92 and N864 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
BERRY HEAD CTA 2 511505N 0025335W - 504216N 0025936W - 504336N 0031822W - 511010N 0031341W - 511505N 0025335W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English Fri 1600 (1500) - Mon 0745 (0645). (Note 1)	134.755	Part of ATS Routes N40 and N862 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English Fri 1600 (1500) - Mon 0745 (0645). (Note 1)	125.855	
BERRY HEAD CTA 3 504441N 0033401W - 504336N 0031822W - 502452N 0032136W - 502257N 0033739W - 504441N 0033401W Upper limit: FL195 Lower limit: FL65 Minimum limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	126.080	Part of the following ATS Routes are incorporated within the CTA: L149, N90, N92, N864 and P16. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BERRY HEAD CTA 4 504336N 0031822W - 504216N 0025936W - 502708N 0030219W - 500000N 0024049W following the line of latitude to - 500000N 0030048W - 502546N 0032127W - 504336N 0031822W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English Fri 1600 (1500) - Mon 0745 (0645).	126.080	Parts of the following ATS Routes are incorporated within the CTA: L149, N40 and N862. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BERRY HEAD CTA 5 502546N 0032127W - 500000N 0030048W following the line of latitude to - 500000N 0031958W - 502251N 0033827W - 502452N 0032136W - 502546N 0032127W Upper limit: FL195 Lower limit: FL85 Class: A	LONDON ACC	LONDON CONTROL English H24	126.080	Parts of the following ATS Routes are incorporated within the CTA: L22, N22, N90, N862, N864 and P16. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
BERRY HEAD CTA 6 512238N 0071903W - 510446N 0065224W - 504741N 0072114W - 510748N 0074601W - 512238N 0071903W Upper limit: FL195 Lower limit: FL135 Class: A	LONDON ACC	LONDON CONTROL English H24	132.950	Part of ATS Routes L37, L38 and N160 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BERRY HEAD CTA 7 512238N 0071903W - 510446N 0065224W - 504741N 0072114W - 510748N 0074601W - 512238N 0071903W Upper limit: FL245 Lower limit: FL195 Class: C	LONDON ACC	LONDON CONTROL English H24	132.950	Part of ATS Routes L37, L38 and N160 are incorporated within the CTA.
BERRY HEAD CTA 8 510440N 0033037W - 504441N 0033401W - 504506N 0034002W - 505655N 0033746W - 510440N 0033037W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Part of ATS Route P16 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	
BERRY HEAD CTA 9 504506N 0034002W - 504441N 0033401W - 502257N 0033739W - 502251N 0033827W - 502837N 0034310W - 504506N 0034002W Upper limit: FL195 Lower limit: FL145 Class: A	LONDON ACC	LONDON CONTROL English H24	126.080	Part of ATS Route P16 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
BIRMINGHAM CTA 1 524015N 0014744W - 523507N 0014154W thence anti-clockwise by the arc of a circle radius 8 NM centred on 522722N 0014502W to 522835N 0015758W - 523335N 0020342W thence clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to - 524015N 0014744W Upper limit: 4500 FT ALT Lower limit: 1500 FT ALT Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	
BIRMINGHAM CTA 2 522626N 0013203W - 522118N 0012616W thence clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to 521431N 0014159W - 521933N 0014740W thence anti-clockwise by the arc of a circle radius 8 NM centred on 522722N 0014502W to - 522626N 0013203W Upper limit: 4500 FT ALT Lower limit: 1500 FT ALT Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	
BIRMINGHAM CTA 3 524342N 0015238W - 524020N 0014350W thence anti-clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to 523335N 0020342W - 523708N 0020748W thence clockwise by the arc of a circle radius 17 NM centred on 522722N 0014502W to - 524342N 0015238W Upper limit: 4500 FT ALT Lower limit: 3500 FT ALT Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	
BIRMINGHAM CTA 4 522329N 0012446W - 521750N 0012205W thence clockwise by the arc of a circle radius 17 NM centred on 522722N 0014502W to 521039N 0014012W - 521431N 0014159W thence anti-clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to - 522329N 0012446W Upper limit: 4500 FT ALT Lower limit: 3500 FT ALT Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
BIRMINGHAM CTA 5 523335N 0020342W - 521431N 0014159W thence clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to 521447N 0015012W - 522846N 0020610W thence clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to - 523335N 0020342W Upper limit: FL145 Lower limit: 2500 FT ALT Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	
BIRMINGHAM CTA 6 523708N 0020748W - 523335N 0020342W thence anti-clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to 522846N 0020610W - 523216N 0021011W - 523708N 0020748W Upper limit: FL145 Lower limit: 3500 FT ALT Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	
BIRMINGHAM CTA 7 523216N 0021011W - 521634N 0015214W - 521544N 0020755W - 521813N 0021130W - 522535N 0021247W - 523216N 0021011W Upper limit: FL145 Lower limit: FL65 Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	
BIRMINGHAM CTA 8 524020N 0014350W - 522329N 0012446W thence clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to 522118N 0012616W - 524015N 0014744W thence clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to - 524020N 0014350W Upper limit: 4500 FT ALT Lower limit: 2000 FT ALT Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
BIRMINGHAM CTA 9 524025N 0021135W - 523708N 0020748W - 523442N 0020900W - 523847N 0021444W - 524025N 0021135W Upper limit: FL85 Lower limit: FL65 Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English	123.980 DOC 40 NM/20,000 FT	Birmingham APP is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005. CTA Chart published in AD-2 Section.
			131.330 DOC 40 NM/20,000 FT	
		BIRMINGHAM DIRECTOR English	131.005 DOC 40 NM/20,000 FT	
BIRMINGHAM CTA 10 521803N 0021116W - 521544N 0020755W - 521634N 0015214W - 521447N 0015012W thence anti-clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to 521423N 0014442W - 520711N 0014056W - 520648N 0020148W - 521702N 0021251W - 521803N 0021116W Upper limit: FL105 Lower limit: FL65 Class: D	BIRMINGHAM APP	BIRMINGHAM RADAR English Mon-Thu 1700-0900 (1600-0800) and Fri (or the day preceding a PH) 1700 (1600) to Mon (or the day following a PH) 0900 (0800).	123.980	Outside the published hours of service the airspace reverts to Class G. Part of ATS Route N92 is incorporated within the CTA.
			131.330 As directed.	
BORDERS CTA 1 550603N 0041419W - 545410N 0035231W - 544000N 0032654W - 543637N 0032230W - 543306N 0033033W - 550603N 0041419W Upper limit: FL195 Lower limit: FL135 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.825	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BORDERS CTA 2 552700N 0030000W - 551742N 0030000W - 550858N 0030000W - 545410N 0035231W - 550603N 0041419W - 552700N 0030000W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.825	Part of the following ATS Routes are incorporated within the CTA: L612, N601, N864 & T256. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BORDERS CTA 3 550858N 0030000W - 545442N 0024940W - 543356N 0023451W following the line of latitude to - 543356N 0031901W - 543637N 0032230W - 544000N 0032654W - 545410N 0035231W - 550858N 0030000W Upper limit: FL195 Lower limit: FL125 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.825	Part of the following ATS Routes are incorporated within the CTA: L612, N57, N601, N864 & T256. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
			126.300	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
BORDERS CTA 4 551742N 0030000W - 551735N 0025427W - 545610N 0024159W - 545442N 0024940W - 550858N 0030000W - 551742N 0030000W Upper limit: FL195 Lower limit: FL165 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	126.300	Part or all of this airspace may not be available when activity associated with EGD510, Spadeadam requires access to the area. Non-availability of airspace will be notified to GAT by Scottish ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BORDERS CTA 5 551735N 0025427W - 551724N 0024532W - 551240N 0023052W - 545912N 0022555W - 545610N 0024159W - 551735N 0025427W Upper limit: FL195 Lower limit: FL165 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	126.300	Part or all of this CTA may not be available when the Ministry of Defence (MoD) requires access to the area. Non availability of airspace will be notified to GAT by Scottish ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BORDERS CTA 6 553805N 0025111W - 552606N 0023655W - 551724N 0024532W - 551735N 0025427W - 551742N 0030000W - 552700N 0030000W - 553100N 0025156W - 553805N 0025111W Upper limit: FL195 Lower limit: FL115 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route Y96 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BORDERS CTA 7 552606N 0023655W - 552111N 0022140W - 551230N 0023019W - 551240N 0023052W - 551724N 0024532W - 552606N 0023655W Upper limit: FL195 Lower limit: FL155 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route Y96 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BORDERS CTA 8 550858N 0030000W - 545442N 0024940W - 543356N 0023451W - 543356N 0031901W - 543637N 0032230W - 544000N 0032654W - 545410N 0035231W - 550858N 0030000W Upper limit: FL125 Lower limit: FL95 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English 2000-0700 (1900-0600)	124.825 126.300	Parts of the following ATS Routes are incorporated within the CTA: L612, N57, N601, N864 & T256. 2000-0700 (1900-0600) only. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
BORDERS CTA 9 550334N 0015352W - 550218N 0014154W - 550101N 0012957W - 545849N 0013040W - 545336N 0015304W thence clockwise by the arc of a circle radius 11 NM centred on 550217N 0014123W to 545531N 0015626W - 550334N 0015352W Upper limit: FL125 Lower limit: FL105 Class: D	NEWCASTLE APP	NEWCASTLE RADAR English See remarks.	124.380 125.830	Part of ATS Route P18 is incorporated in the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. ATS Provision is delegated to Newcastle Radar during their hours of operation.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	
BORDERS CTA 10 545849N 0013040W - 544124N 0013620W - 544356N 0020004W - 545531N 0015626W thence anti-clockwise by the arc of a circle radius 11 NM centred on 550217N 0014123W to 545336N 0015304W - 545849N 0013040W Upper limit: FL125 Lower limit: FL55 Class: D	NEWCASTLE APP	NEWCASTLE RADAR English See remarks.	124.380 125.830	Part of ATS Route P18 is incorporated in the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. ATS Provision is delegated to Newcastle Radar during their hours of operation.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	
BORDERS CTA 11 544356N 0020004W - 544124N 0013620W - 543135N 0013929W - 543406N 0020308W - 544356N 0020004W Upper limit: FL125 Lower limit: FL75 Class: D	NEWCASTLE APP	NEWCASTLE RADAR English See remarks.	124.380 125.830	Part of ATS Route P18 is incorporated in the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. ATS Provision is delegated to Newcastle Radar during their hours of operation.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	
BORDERS CTA 12 561343N 0014155W - 552653N 0012457W - 550601N 0013151W - 550751N 0014858W - 552647N 0014250W - 561143N 0015927W - 561343N 0014155W Upper limit: FL195 Lower limit: FL155 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Part of ATS Route P18 is contained within the CTA. Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
BORDERS CTA 13 550751N 0014858W - 550601N 0013151W - 550123N 0013322W - 550313N 0015027W - 550751N 0014858W Upper limit: FL195 Lower limit: FL105 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Part of ATS Route P18 is contained within the CTA. Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BORDERS CTA 14 550751N 0014858W - 550733N 0014613W - 550643N 0014919W - 550751N 0014858W Upper limit: FL105 Lower limit: FL75 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BRISTOL CTA 1 512824N 0023142W thence clockwise by the arc of a circle radius 9 NM centred on 512258N 0024309W to 511826N 0023045W - 511759N 0024239W thence anti-clockwise by the arc of a circle radius 5 NM centred on 512258N 0024309W to 512757N 0024339W - 512824N 0023142W Upper limit: FL105 Lower limit: 1500 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
BRISTOL CTA 2 512757N 0024339W thence anti-clockwise by the arc of a circle radius 5 NM centred on 512258N 0024309W to 511759N 0024239W - 511730N 0025433W thence clockwise by the arc of a circle radius 9 NM centred on 512258N 0024309W to 512728N 0025535W - 512757N 0024339W Upper limit: FL105 Lower limit: 1500 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
BRISTOL CTA 3 512836N 0022614W thence clockwise by the arc of a circle radius 12 NM centred on 512258N 0024309W to 511838N 0022518W - 511826N 0023045W thence anti-clockwise by the arc of a circle radius 9 NM centred on 512258N 0024309W to 512824N 0023142W - 512836N 0022614W Upper limit: FL105 Lower limit: 2000 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
BRISTOL CTA 4 512728N 0025535W thence anti-clockwise by the arc of a circle radius 9 NM centred on 512258N 0024309W to 511730N 0025433W - 511709N 0030302W - 512349N 0030302W - 512715N 0030058W - 512728N 0025535W Upper limit: FL105 Lower limit: 2000 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
BRISTOL CTA 5 511826N 0023045W thence clockwise by the arc of a circle radius 9 NM centred on 512258N 0024309W to 511620N 0023328W - 511538N 0025120W - 511247N 0030302W - 511709N 0030302W - 511826N 0023045W Upper limit: FL105 Lower limit: 3000 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
BRISTOL CTA 6 512847N 0022104W thence clockwise by the arc of a circle radius 15 NM centred on 512258N 0024309W to 511849N 0022009W - 511838N 0022518W thence anti-clockwise by the arc of a circle radius 12 NM centred on 512258N 0024309W to 512836N 0022614W - 512847N 0022104W Upper limit: FL105 Lower limit: 3500 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
BRISTOL CTA 7 513450N 0024206W - 513235N 0022204W - 512842N 0022338W - 512715N 0030058W - 513450N 0024206W Upper limit: FL105 Lower limit: 4000 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
BRISTOL CTA 8 513235N 0022204W - 513039N 0020510W - 512320N 0021913W thence anti-clockwise by the arc of a circle radius 15 NM centred on 512258N 0024309W to 512847N 0022104W - 512842N 0022338W - 513235N 0022204W Upper limit: FL105 Lower limit: 4500 FT ALT Class: D	BRISTOL APP	BRISTOL RADAR English	125.650 DOC 60 NM/15,000 FT. 136.080 DOC 60 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
CARDIFF CTA 1 512815N 0031700W - 512526N 0030806W thence clockwise by the arc of a circle radius 8 NM centred on 512348N 0032036W to 511632N 0031518W - 511920N 0032411W thence anti-clockwise by the arc of a circle radius 5 NM centred on 512348N 0032036W to - 512815N 0031700W Upper limit: FL105 Lower limit: 1000 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/ CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	
CARDIFF CTA 2 512526N 0030806W - 512349N 0030302W thence clockwise by the arc of a circle radius 11 NM centred on 512348N 0032036W to 511455N 0031016W - 511632N 0031518W thence anti-clockwise by the arc of a circle radius 8 NM centred on 512348N 0032036W to - 512526N 0030806W Upper limit: FL105 Lower limit: 1500 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/ CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
CARDIFF CTA 3 513309N 0033236W - 512957N 0032222W - 513021N 0032755W thence anti-clockwise by the arc of a circle radius 8 NM centred on 512348N 0032036W to 512208N 0033305W - 512413N 0033945W thence clockwise by the arc of a circle radius 12 NM centred on 512348N 0032036W to - 513309N 0033236W Upper limit: FL105 Lower limit: 2000 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/ CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	
CARDIFF CTA 4 513458N 0032522W - 512715N 0030058W - 512349N 0030302W - 513309N 0033236W - 513335N 0033205W - 513458N 0032522W Upper limit: FL105 Lower limit: 3000 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/ CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	
CARDIFF CTA 5 512413N 0033945W - 511455N 0031016W thence anti-clockwise by the arc of a circle radius 11 NM centred on 512348N 0032036W to 512349N 0030302W - 511247N 0030302W - 511010N 0031341W - 511115N 0032929W - 511309N 0032910W - 512413N 0033945W Upper limit: FL105 Lower limit: 3000 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/ CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
CARDIFF CTA 6 513946N 0032432W - 513839N 0031727W - 513450N 0024206W - 512715N 0030058W - 513458N 0032522W - 513335N 0033205W - 513946N 0032432W Upper limit: FL105 Lower limit: 4000 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	
CARDIFF CTA 7 511115N 0032929W - 511010N 0031341W - 510512N 0031434W - 510617N 0033020W - 511115N 0032929W Upper limit: FL65 Lower limit: 4500 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	
CARDIFF CTA 8 513950N 0030822W - 513947N 0024858W - 513450N 0024206W - 513743N 0030845W - 513950N 0030822W Upper limit: FL75 Lower limit: 5500 FT ALT Class: D	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200). Note 1	125.855 DOC 40 NM/19,000 FT.	All training flights in the Cardiff CTR/CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section. Note 1: Radar may be available 2300-0600 (2200-0500).
		CARDIFF APPROACH English H24	119.155 DOC 50 NM/19,000 FT.	
CHANNEL ISLANDS CTA 2 500000N 0020000W following the line of latitude to - 500000N 0014700W - 494400N 0020000W - 500000N 0020000W Upper limit: FL80 Lower limit: 3500 FT ALT Class: D	JERSEY APP	JERSEY CONTROL English 0545-2100 (0445-2030); and by arrangement.	120.450 (Note 1)	CTA Chart published in ENR 6-40. Note 1: To be used in the event of failure of communications on 125.205 MHz.
			125.205	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
CHANNEL ISLANDS CTA 1 NORTH 500000N 0030000W - 494951N 0030000W - 494802N 0031023W - 500000N 0032000W following the line of latitude to - 500000N 0030000W Upper limit: FL80 Lower limit: FL55 Class: D	JERSEY APP	JERSEY CONTROL English 0545-2100 (0445-2030); and by arrangement.	120.450 (Note 1) 125.205	CTA Chart published in ENR 6-40. Note 1: To be used in the event of failure of communications on 125.205 MHz.
CHANNEL ISLANDS CTA 1 SOUTH 494951N 0030000W - 493500N 0030000W - 494802N 0031023W - 494951N 0030000W Upper limit: FL80 Lower limit: FL55 Class: D	JERSEY APP	JERSEY CONTROL English 0545-2100 (0445-2030); and by arrangement.	120.450 (Note 1) 125.205	CTA Chart published in ENR 6-40. Note 1: To be used in the event of failure of communications on 125.205 MHz.
CLACTON CTA 1 522632N 0003702W - 522621N 0000153E - 522122N 0000147E - 521126N 0002220W - 522632N 0003702W Upper limit: FL195 Lower limit: FL155 Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 2 522026N 0011450E - 522008N 0013019E - 520327N 0014452E - 515808N 0011829E - 520707N 0011236E - 521032N 0010200E - 520839N 0005047E - 521221N 0004819E - 521245N 0005322E - 522026N 0011450E Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	121.230	Parts of the following ATS Routes are incorporated within the CTA: M183, M197, M604, P25, P49 and Y6. Frequencies purpose: GAT inbound/outbound to/from and/or overflying the LTMA and Clacton CTA 2. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 3 521032N 0010200E - 520707N 0011236E - 515808N 0011829E - 515548N 0010705E - 515806N 0005800E - 520839N 0005047E - 521032N 0010200E Upper limit: FL195 Lower limit: FL85 Class: A	LONDON ACC	LONDON CONTROL English H24	121.230	Parts of the following ATS Routes are incorporated within the CTA: M183 and M604. Frequencies purpose: GAT inbound/outbound to/from and/or overflying the LTMA and Clacton CTA 3. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
CLACTON CTA 4 522510N 0012816E - 522452N 0014237E - 521024N 0015510E - 520940N 0013928E - 522008N 0013019E - 522026N 0011450E - 522510N 0012816E Upper limit: FL195 Lower limit: FL165 Class: A	LONDON ACC	LONDON CONTROL English H24	121.230	Parts of the following ATS Routes are incorporated within the CTA: M604, P25 and Y6. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA and Clacton CTA 4. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 5 521304N 0023417E - 515220N 0021737E - 515222N 0012635E - 515904N 0012302E - 521304N 0023417E Upper limit: FL195 Lower limit: FL85 Class: A	LONDON ACC	LONDON CONTROL English H24	121.230 Eastbound 135.425 Westbound	Parts of the following ATS Routes are incorporated within the CTA: L620, M40, M183, M197, P7, P44, P49, Y4 and Y6. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA and Clacton CTA 5. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 6 521150N 0022748E - 520327N 0014452E - 520940N 0013928E - 521150N 0022748E Upper limit: FL195 Lower limit: FL135 Class: A	LONDON ACC	LONDON CONTROL English H24	121.230	Parts of the following ATS Routes are incorporated within the CTA: P7, P44 and Y6. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA and Clacton CTA 6. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 7 515222N 0012635E - 515220N 0021737E - 513000N 0020000E - 512922N 0020000E - 513024N 0013733E - 512708N 0013826E - 512053N 0013611E - 512106N 0013052E - 512130N 0012140E - 512247N 0011549E - 513905N 0012500E - 515222N 0012635E Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	135.425	Parts of the following ATS Routes are incorporated within the CTA: L179, L608, L610, L980, M84, M189, P7, P49, Q63, Y4 and Y6. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA and Clacton CTA 7. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
CLACTON CTA 9 513024N 0013733E - 512922N 0020000E - 511948N 0020000E - 512053N 0013611E - 512708N 0013826E - 513024N 0013733E Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	135.425	Part of ATS Routes L610 and Y4 are incorporated within the CTA. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA and Clacton CTA 9. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 10 521832N 0000507W - 521802N 0000240W - 521712N 0000935E - 521105N 0001412E - 521104N 0000528E following the line of latitude to - 521104N 0002159W - 521126N 0002220W - 521832N 0000507W Upper limit: FL195 Lower limit: FL75 Class: C	LONDON ACC	LONDON CONTROL English H24	129.280 129.550	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 11 521712N 0000935E - 521606N 0002507E - 521105N 0002410E following the line of latitude to - 521105N 0001412E - 521712N 0000935E Upper limit: FL195 Lower limit: FL105 Class: C	LONDON ACC	LONDON CONTROL English H24	129.280	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CLACTON CTA 12 522030N 0011113E - 522026N 0011450E - 521245N 0005322E - 521221N 0004819E - 521104N 0003242E - 521105N 0002410E - 521606N 0002507E - 521503N 0003932E - 521614N 0005918E - 522030N 0011113E Upper limit: FL195 Lower limit: FL125 Class: C	LONDON ACC	LONDON CONTROL English H24	121.230 129.280	Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA and Clacton CTA 12. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
COTSWOLD CTA 1 513946N 0032432W - 513839N 0031727W - 513743N 0030845W - 513450N 0024206W - 512419N 0024505W - 512608N 0031050W - 511010N 0031341W - 511115N 0032929W - 513946N 0032432W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Parts of the following ATS Routes are incorporated within the CTA: N91, N92, N862, N864 and P4. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	
COTSWOLD CTA 2 512608N 0031050W - 512419N 0024505W - 512331N 0023410W - 511620N 0023328W - 511538N 0025120W - 511505N 0025335W - 511010N 0031341W - 512608N 0031050W Upper limit: FL195 Lower limit: FL165 Class: C	LONDON ACC	LONDON CONTROL English H24	134.755	Part of ATS Routes N92 and N862 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
COTSWOLD CTA 3 514440N 0023918W - 514413N 0023517W - 514125N 0021026W - 513135N 0021321W - 513450N 0024206W - 514440N 0023918W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Part of ATS Routes N80, N92 and Q63 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 135, 2300-0600 (2200-0500) (All Levels). BRISTOL RADAR: Note 1: Between 0600-2300 (0500-2200) FL 135 and below the provision of ATS is delegated to Bristol Radar.
	BRISTOL APP	BRISTOL RADAR English 0600-2300 (0500-2200) (Note 1)	125.650	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
COTSWOLD CTA 4 514028N 0020214W - 513928N 0015338W - 513640N 0013011W - 513607N 0012547W - 512619N 0012850W - 512624N 0012933W - 513039N 0020510W - 514028N 0020214W Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	134.755	Parts of the following ATS Routes are incorporated within the CTA: L18, L179, L607, P73, P86 and Q63. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
COTSWOLD CTA 5 515351N 0023017W - 514707N 0020509W - 514117N 0020916W - 514125N 0021026W - 514413N 0023517W - 515351N 0023017W Upper limit: FL195 Lower limit: FL155 Class: A	LONDON ACC	LONDON CONTROL English H24	134.755	Part of ATS Routes L9, N14 and N92 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
COTSWOLD CTA 6 514707N 0020509W - 514457N 0015035W - 514454N 0014947W - 513928N 0015338W - 514028N 0020214W - 514117N 0020916W - 514707N 0020509W Upper limit: FL195 Lower limit: FL125 Class: A	LONDON ACC	LONDON CONTROL English H24	134.755	Part of ATS Routes L9 and N14 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
COTSWOLD CTA 7 514454N 0014947W - 514412N 0014010W - 513945N 0012646W - 513911N 0012629W - 513640N 0013011W - 513928N 0015338W - 514454N 0014947W Upper limit: FL195 Lower limit: FL95 Class: A	LONDON ACC	LONDON CONTROL English H24	134.755	Part of ATS Routes L9 and N14 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
COTSWOLD CTA 8 514954N 0032323W - 514825N 0031406W - 514743N 0030725W - 514308N 0030746W - 513743N 0030845W - 513839N 0031727W - 513946N 0032432W - 514355N 0032348W - 514954N 0032323W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Parts of the following ATS Routes are incorporated within the CTA: L9, L180, P4, P69, N80, N864 and Q63. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	
COTSWOLD CTA 9 515341N 0032127W - 515313N 0030514W - 514738N 0030638W - 514825N 0031406W - 514954N 0032323W - 515056N 0032207W - 515341N 0032127W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Part of ATS Routes L9, L180, N864 and P69 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
COTSWOLD CTA 11 515739N 0032029W - 515642N 0024828W - 515700N 0024716W - 515043N 0024748W - 514515N 0024433W - 514738N 0030638W - 515313N 0030514W - 515341N 0032127W - 515739N 0032029W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Part of ATS Routes L9, L180, N91, N862, N864 and P69 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: The following two areas, within PEPZE CTAs 13 and 14 and Cotswold CTAs 11 and 17 between the CTAs base level and FL 195, and referred to as the OSSEP Gliding Areas, are notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and London ACC, Swanwick Mil and Cardiff ATC: MADLEY Box bounded by great circle lines joining: 520734N 0025744W - 520712N 0024624W - 515640N 0024718W - 515701N 0025836W - 520734N 0025744W. RAGLAN Box bounded by great circle lines joining: 515701N 0025836W - 515640N 0024718W - 515040N 0024748W - 515153N 0025901W - 515701N 0025836W. During periods of activation of these areas ATC will direct aircraft to remain clear of the active area. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
COTSWOLD CTA 12 514743N 0030725W - 514440N 0023918W - 513450N 0024206W - 513743N 0030845W - 514308N 0030746W - 514743N 0030725W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Part of ATS Routes N80, N91, N92, P4 and Q63 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	
COTSWOLD CTA 13 513450N 0024206W - 513135N 0021321W - 513039N 0020510W - 512624N 0012933W - 511837N 0012813W - 511726N 0012843W - 511859N 0013913W - 512250N 0023406W - 512331N 0023410W - 512419N 0024505W - 513450N 0024206W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	134.755	Part of ATS Routes L18, L607, N21, P2 and P4 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: Between 0600-2300 (0500-2200) within the portion of Cotswold CTA 13 which overlies the Bristol CTR and Bristol CTAs 1, 2, 3, 6, 7 & 8, FL 135 and below, the provision of ATS is delegated to Bristol Radar.
	BRISTOL APP	BRISTOL RADAR English 0600-2300 (0500-2200) (Note 1)	125.650	
COTSWOLD CTA 14 514125N 0021026W - 514117N 0020916W - 514028N 0020214W - 513039N 0020510W - 513135N 0021321W - 514125N 0021026W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	134.755	Part of ATS Route Q63 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
COTSWOLD CTA 15 520526N 0023050W - 515703N 0021633W - 515208N 0022350W - 515351N 0023017W - 514413N 0023517W - 514515N 0024433W - 515043N 0024748W - 515700N 0024716W - 515714N 0024620W - 520526N 0023050W Upper limit: FL195 Lower limit: FL125 Class: C	LONDON ACC	LONDON CONTROL English Mon-Thu 1700-0900 (1600-0800) and Fri (or the day preceding a PH) 1700 (1600) to Mon (or the day following a PH) 0900 (0800).	134.755	Outside the published hours of service the airspace reverts to Class G. Parts of the following ATS Routes are incorporated within the CTA: L9, L180, N91 and N92. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Access restrictions may apply during NOTAM activation of EGD218.
COTSWOLD CTA 16 515351N 0023017W - 515208N 0022350W - 514413N 0023517W - 515351N 0023017W Upper limit: FL155 Lower limit: FL125 Class: C	LONDON ACC	LONDON CONTROL English Mon-Thu 1700-0900 (1600-0800) and Fri (or the day preceding a PH) 1700 (1600) to Mon (or the day following a PH) 0900 (0800).	134.755	Outside the published hours of service the airspace reverts to Class G. Part of ATS Route N92 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Access restrictions may apply during NOTAM activation of EGD218.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
COTSWOLD CTA 17 525046N 0024529W - 523253N 0023011W - 521702N 0021251W - 520526N 0023050W - 515714N 0024620W - 515642N 0024828W - 515647N 0025125W - 515751N 0025203W - 522042N 0025007W - 522029N 0024337W - 523651N 0024210W - 524852N 0024522W - 525046N 0024529W Upper limit: FL195 Lower limit: FL175 Class: C	LONDON ACC	LONDON CONTROL English Mon-Thu 1700-0900 (1600-0800) and Fri (or the day preceding a PH) 1700 (1600) to Mon (or the day following a PH) 0900 (0800).	133.600	Outside the published hours of service the airspace reverts to Class G. Part of ATS Route Y125 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: The following two areas, within PEPZE CTAs 13 and 14 and Cotswold CTAs 11 and 17 between the CTAs base level and FL 195, and referred to as the OSSEP Gliding Areas, are notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and London ACC, Swanwick Mil and Cardiff ATC: MADLEY Box bounded by great circle lines joining: 520734N 0025744W - 520712N 0024624W - 515640N 0024718W - 515701N 0025836W - 520734N 0025744W. RAGLAN Box bounded by great circle lines joining: 515701N 0025836W - 515640N 0024718W - 515040N 0024748W - 515153N 0025901W - 515701N 0025836W. During periods of activation of these areas ATC will direct aircraft to remain clear of the active area.
COTSWOLD CTA 18 521702N 0021251W - 520648N 0020148W - 515703N 0021633W - 520526N 0023050W - 521702N 0021251W Upper limit: FL195 Lower limit: FL75 Class: C	LONDON ACC	LONDON CONTROL English Mon-Thu 1700-0900 (1600-0800) and Fri (or the day preceding a PH) 1700 (1600) to Mon (or the day following a PH) 0900 (0800).	134.755	Outside the published hours of service the airspace reverts to Class G. Part of ATS Route N92 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Access restrictions may apply during NOTAM activation of EGD218.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
DAVENTRY CTA 1 532614N 0015024W - 531952N 0014757W - 530412N 0015647W - 530732N 0020056W - 532614N 0015024W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	119.530 As directed. 134.430	Parts of the following ATS Routes are incorporated within Daventry CTA 1: M605 and N57. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 2 531952N 0014757W - 530952N 0014407W - 530108N 0015300W - 530412N 0015647W - 531952N 0014757W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	119.530 As directed. 134.430	Parts of the following ATS Routes are incorporated within Daventry CTA 2: M605, N57 and Q4. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 3 531145N 0013558W - 521403N 0010009W - 521355N 0010026W - 524702N 0013541W - 530108N 0015300W - 530952N 0014407W - 531145N 0013558W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Parts of the following ATS Routes are incorporated within Daventry CTA 3: M605, N57, P155, T420 and Y53. Note: That portion south of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601. SCOTTISH CONTROL: Note: That portion north of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	119.530 As directed. 134.430	
DAVENTRY CTA 4 521403N 0010009W - 521049N 0010650W - 520633N 0012617W - 520428N 0012245W - 520843N 0010339W - 521222N 0005608W - 521403N 0010009W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	Parts of the following ATS Routes are incorporated within Daventry CTA 4: L10, L15, L608, M605 and Y321. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
DAVENTRY CTA 5 521222N 0005608W - 520843N 0010339W - 520428N 0012245W - 515745N 0011126W - 520421N 0003712W - 521222N 0005608W Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	Parts of the following ATS Routes are incorporated within Daventry CTA 5: L10, L15, L608, M605 and T420. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 6 515626N 0011022W - 514420N 0010041W - 514019N 0010507W - 515626N 0011022W Upper limit: FL195 Lower limit: FL65 Minimum limit: 6500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	Parts of the following ATS Routes are incorporated within Daventry CTA 6: M183, N84, P86 and Q41. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 7 530732N 0020056W - 530412N 0015647W - 530115N 0015826W - 525828N 0020854W - 525858N 0023314W - 530443N 0024001W - 530626N 0024349W - 530602N 0022246W - 530732N 0020056W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.430	Parts of the following ATS Routes are incorporated within Daventry CTA 7: L8, L10, L612, N859, P18 and Y53. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 8 530412N 0015647W - 525833N 0014948W - 524800N 0015216W - 524216N 0021343W - 525858N 0023314W - 525828N 0020854W - 530115N 0015826W - 530412N 0015647W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.430	Parts of the following ATS Routes are incorporated within Daventry CTA 8: L8, L10, L612, N859, P18 and Y53. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
DAVENTRY CTA 9 525833N 0014948W - 524702N 0013541W - 521355N 0010026W - 521049N 0010650W (Daventry VOR) - 520633N 0012617W - 521135N 0013450W thence clockwise by the arc of a circle radius 17 NM centred on 522722N 0014502W to 521039N 0014012W - 521431N 0014159W - 524216N 0021343W - 524800N 0015216W - 525833N 0014948W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Parts of the following ATS Routes are incorporated within Daventry CTA 9: L8, L10, L15, L608, L612, M605, N57, N859, P155, Y53, Y250 and Y321. Note: That portion south of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601. SCOTTISH CONTROL: Note: That portion north of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.430	
DAVENTRY CTA 10 532656N 0015000W - 532719N 0014617W - 531137N 0013631W - 530952N 0014407W - 532614N 0015024W - 532656N 0015000W Upper limit: FL195 Lower limit: FL65 Minimum limit: 5500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	119.530 As directed. 134.430	Parts of the following ATS Routes are incorporated within Daventry CTA 10: M605, M868 and N57. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
DAVENTRY CTA 11 532227N 0014315W - 532109N 0012904W - 532003N 0013042W - 531930N 0013131W - 531143N 0013142W - 530517N 0013152W - 531145N 0013558W - 531137N 0013631W - 532227N 0014315W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	119.530	Parts of the following ATS Routes are incorporated within Daventry CTA 11: M868 and N601. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Camphill Box The portion of airspace formed by joining positions: 532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish ACC.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
DAVENTRY CTA 12 532003N 0013042W - 531139N 0012206W - 521126N 0002220W - 521002N 0002427W - 521118N 0003323W - 523406N 0011224W - 530517N 0013152W - 531143N 0013142W - 531930N 0013131W - 532003N 0013042W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Parts of the following ATS Routes are incorporated within Daventry CTA 12: N601, P155 and T420. Note: That portion south of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601. SCOTTISH CONTROL: Note: That portion north of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601. Camphill Box The portion of airspace formed by joining positions: 532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish ACC.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	119.530	
DAVENTRY CTA 13 523406N 0011224W - 521118N 0003323W - 521002N 0002427W - 520316N 0003441W - 521403N 0010009W - 523406N 0011224W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	130.925	Parts of the following ATS Routes are incorporated within Daventry CTA 13: L608, N57, N601, P155, P166, T418, T420 and Y250. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
DAVENTRY CTA 14 520129N 0013758W - 520428N 0012245W - 515745N 0011126W - 515626N 0011022W - 514019N 0010507W - 513423N 0011138W - 513640N 0013011W - 513911N 0012629W - 520129N 0013758W Upper limit: FL195 Lower limit: FL85 Class: A	LONDON ACC	LONDON CONTROL English H24	121.030	Parts of the following ATS Routes are incorporated within Daventry CTA 14: L8, L9, L151, L612, M183, N14, N84, N859, P86, T421 and Y321. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 15 515853N 0015319W - 520429N 0013932W - 513945N 0012646W - 514258N 0013626W - 515853N 0015319W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	121.030	Parts of the following ATS Routes are incorporated within Daventry CTA 15: L8, L151 and Y322. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 16 520420N 0013927W - 520650N 0012645W - 520428N 0012245W - 520129N 0013758W - 520420N 0013927W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	121.030	Parts of the following ATS Routes are incorporated within Daventry CTA 16: L151 and N859. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 17 520711N 0014056W - 520911N 0013046W - 520650N 0012645W - 520420N 0013927W - 520711N 0014056W Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	121.030	Part of the following ATS Route is incorporated within Daventry CTA 17: N859. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
DAVENTRY CTA 18 521856N 0014705W - 521431N 0014159W - 521039N 0014012W thence anti-clockwise by the arc of a circle radius 17 NM centred on 522722N 0014502W to 521135N 0013450W - 520911N 0013046W - 520711N 0014056W - 521856N 0014705W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	121.030	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Part of the following ATS Route is incorporated within Daventry CTA 18: N859. BIRMINGHAM RADAR: Note: Up to and including FL 80, in that part of Daventry CTA 18 which overlies the Birmingham CTR/CTA.
	BIRMINGHAM APP	BIRMINGHAM RADAR English H24	123.980 131.330 As directed.	
DAVENTRY CTA 19 530006N 0024504W - 521856N 0014705W - 520429N 0013932W - 515853N 0015319W - 523253N 0023011W - 525046N 0024529W - 525334N 0024539W - 530006N 0024504W Upper limit: FL195 Lower limit: FL145 Class: A	LONDON ACC	LONDON CONTROL English H24	121.030	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Parts of the following ATS Routes are incorporated within Daventry CTA 19: L15, L151, N91 and N92. Note: That portion south of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601. SCOTTISH CONTROL: Note: That portion north of a line through Birmingham Airport at right angles to the centre-line of ATS Route N601.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.430	
DAVENTRY CTA 20 530314N 0024935W - 530626N 0024349W - 530443N 0024001W - 521856N 0014705W - 530314N 0024935W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.430	Parts of the following ATS Routes are incorporated within Daventry CTA 20: L15, L151, P18 and Y53. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 21 522632N 0003702W - 522627N 0001416W - 521855N 0000659W - 521832N 0000507W - 521126N 0002220W - 521658N 0002741W - 522632N 0003702W Upper limit: FL155 Lower limit: FL75 Class: C	LONDON ACC	LONDON CONTROL English H24	128.480 130.925 133.975	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
DAVENTRY CTA 22 524757N 0004834W - 522631N 0002729W - 522632N 0003702W - 524523N 0005538W - 524757N 0004834W Upper limit: FL195 Lower limit: FL145 Class: C	LONDON ACC	LONDON CONTROL English H24	130.925	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 23 521803N 0021116W - 521544N 0020755W - 521634N 0015214W - 521447N 0015012W thence anti-clockwise by the arc of a circle radius 13 NM centred on 522722N 0014502W to 521423N 0014442W - 520711N 0014056W - 520648N 0020148W - 521702N 0021251W - 521803N 0021116W Upper limit: FL145 Lower limit: FL105 Class: C	LONDON ACC	LONDON CONTROL English H24	121.030	Parts of the following ATS Routes are incorporated within the CTA: N92 and N93. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 24 520648N 0020148W - 520711N 0014056W - 520429N 0013932W - 515853N 0015319W - 520648N 0020148W Upper limit: FL145 Lower limit: FL105 Class: C	LONDON ACC	LONDON CONTROL English H24	121.030	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
DAVENTRY CTA 25 521658N 0002741W - 521126N 0002220W - 521002N 0002427W - 521118N 0003323W - 521332N 0002806W - 521658N 0002741W Upper limit: FL105 Lower limit: FL85 Class: C	LONDON ACC	LONDON CONTROL English H24	129.280	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
EAST MIDLANDS CTA 1 525911N 0012801W - 525901N 0010918W - 525421N 0010006W - 525121N 0005725W - 525057N 0005724W - 525456N 0011804W - 525510N 0012530W - 525911N 0012801W Upper limit: FL105 Lower limit: 2500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.

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ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
EAST MIDLANDS CTA 2 525255N 0010733W - 525057N 0005724W - 525014N 0005722W - 524619N 0005748W - 524558N 0010733W - 525255N 0010733W Upper limit: FL105 Lower limit: 1500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 3 524619N 0005748W - 524315N 0005749W - 524122N 0011653W - 524536N 0011932W - 524537N 0011628W - 524619N 0005748W Upper limit: FL105 Lower limit: 2500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 4 524536N 0011932W - 524122N 0011653W - 524013N 0012820W - 524533N 0013405W - 524536N 0011932W Upper limit: 5500 FT ALT Lower limit: 2500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 5 525142N 0013706W - 525233N 0013241W - 524535N 0012816W - 524533N 0013405W - 524702N 0013541W - 524942N 0013857W - 525142N 0013706W Upper limit: 5500 FT ALT Lower limit: 1500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 6 525629N 0013938W - 525911N 0012801W - 525510N 0012530W - 525233N 0013241W - 525142N 0013706W - 524942N 0013857W - 525059N 0014031W - 525629N 0013938W Upper limit: 5500 FT ALT Lower limit: 2500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 7 530410N 0013110W - 530402N 0011422W - 525901N 0010918W - 525911N 0012801W - 530410N 0013110W Upper limit: FL105 Lower limit: 4000 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
EAST MIDLANDS CTA 8 525833N 0014948W - 530123N 0014310W - 530410N 0013110W - 525911N 0012801W - 525506N 0014533W - 525833N 0014948W Upper limit: 5500 FT ALT Lower limit: 4000 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 9 524122N 0011653W - 523610N 0011340W - 523447N 0012231W - 524013N 0012820W - 524122N 0011653W Upper limit: 5500 FT ALT Lower limit: 4500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 10 525506N 0014533W - 525629N 0013938W - 525059N 0014031W - 525506N 0014533W Upper limit: 5500 FT ALT Lower limit: 3000 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 11 525232N 0014224W - 524942N 0013857W - 524542N 0013843W - 524538N 0014201W - 525232N 0014224W Upper limit: 4500 FT ALT Lower limit: 3000 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 12 525245N 0014543W - 525248N 0014245W - 525232N 0014224W - 524538N 0014201W - 524533N 0014518W - 525245N 0014543W Upper limit: 4500 FT ALT Lower limit: 3500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 13 524942N 0013857W - 524702N 0013541W - 524013N 0012820W - 524542N 0013843W - 524942N 0013857W Upper limit: 4500 FT ALT Lower limit: 2500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 14 524726N 0005741W - 523753N 0004811W - 524026N 0005750W - 524619N 0005748W - 524726N 0005741W Upper limit: FL105 Lower limit: FL65 Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English Only available between 0001-0600 (2301- 0500).	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	Outside the published hours of service the airspace reverts to Class G. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
EAST MIDLANDS CTA 15 524315N 0005749W - 523836N 0005750W - 523610N 0011340W - 524122N 0011653W - 524315N 0005749W Upper limit: FL105 Lower limit: 4500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 16 524026N 0005750W - 523753N 0004811W - 523637N 0004656W - 522358N 0005457W - 522823N 0010232W - 522927N 0005753W - 524026N 0005750W Upper limit: FL105 Lower limit: FL75 Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 17 523836N 0005750W - 523400N 0005752W - 523141N 0011054W - 523610N 0011340W - 523836N 0005750W Upper limit: FL105 Lower limit: 5500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 18 523400N 0005752W - 522927N 0005753W - 522823N 0010232W - 523203N 0010851W - 523400N 0005752W Upper limit: FL105 Lower limit: FL65 Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 19 530900N 0013146W - 530854N 0011918W - 530402N 0011422W - 530410N 0013110W - 530517N 0013152W - 530900N 0013146W Upper limit: FL105 Lower limit: 5500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 20 531143N 0013142W - 531139N 0012206W - 530854N 0011918W - 530900N 0013146W - 531143N 0013142W Upper limit: FL105 Lower limit: FL75 Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EAST MIDLANDS CTA 21 530901N 0013414W - 530900N 0013146W - 530517N 0013152W - 530901N 0013414W Upper limit: FL85 Lower limit: 5500 FT ALT Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
EAST MIDLANDS CTA 22 531145N 0013558W - 531143N 0013142W - 530900N 0013146W - 530901N 0013414W - 531145N 0013558W Upper limit: FL85 Lower limit: FL75 Class: D	EAST MIDLANDS APP	EAST MIDLANDS RADAR English H24	134.180 Lower Airspace Radar Service. DOC 60 NM/20,000 FT.	CTA Chart published in AD-2 Section.
EDINBURGH CTA 1 555916N 0033941W thence anti-clockwise by the arc of a circle radius 10 NM centred on 555700N 0032221W to 554851N 0033235W - 554349N 0034715W - 554806N 0035411W - 555417N 0035413W - 555916N 0033941W Upper limit: 6000 FT ALT Lower limit: 2500 FT ALT Class: D	EDINBURGH APP	EDINBURGH RADAR English H24	121.205 Also a CTR Channel. DOC 40 NM/10,000 FT.	CTA Chart published in AD-2 Section.
EDINBURGH CTA 2 560700N 0032221W - 560700N 0025608W - 560008N 0024849W - 555442N 0030503W thence anti-clockwise by the arc of a circle radius 10 NM centred on 555700N 0032221W to - 560700N 0032221W Upper limit: 6000 FT ALT Lower limit: 2500 FT ALT Class: D	EDINBURGH APP	EDINBURGH RADAR English H24	121.205 Also a CTR Channel. DOC 40 NM/10,000 FT.	CTA Chart published in AD-2 Section.
EDINBURGH CTA 3 560700N 0034855W - 560700N 0032221W thence anti-clockwise by the arc of a circle radius 10 NM centred on 555700N 0032221W to 555916N 0033941W - 555417N 0035413W - 555724N 0035417W - 560700N 0034855W Upper limit: 6000 FT ALT Lower limit: 3500 FT ALT Class: D	EDINBURGH APP	EDINBURGH RADAR English H24	121.205 Also a CTR Channel. DOC 40 NM/10,000 FT.	CTA Chart published in AD-2 Section.
EDINBURGH CTA 4 560008N 0024849W - 554125N 0025510W - 554125N 0034324W - 554349N 0034715W - 554851N 0033235W thence anti-clockwise by the arc of a circle radius 10 NM centred on 555700N 0032221W to 555442N 0030503W - 560008N 0024849W Upper limit: 6000 FT ALT Lower limit: 3500 FT ALT Class: D	EDINBURGH APP	EDINBURGH RADAR English H24	121.205 Also a CTR Channel. DOC 40 NM/10,000 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
EKOFISK CTA 575525N 0033459E - 571645N 0043455E - 561305N 0034201E - 560510N 0031455E - 563540N 0023642E - 570817N 0022054E - 575525N 0033459E Upper limit: FL85 Lower limit: 1500 FT ALT Class: D	POLARIS ACC	POLARIS CONTROL English H24	125.875	Mandatory carriage of ADS-B equipment.
FARNBOROUGH CTA 1 512014N 0003104W - 511741N 0002927W - 511520N 0003639W - 512013N 0003800W - 512014N 0003104W Upper limit: 2500 FT ALT Lower limit: 2000 FT ALT Class: D	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	133.440 Transit Requests 134.355 Approach Radar	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
FARNBOROUGH CTA 2 511705N 0005508W - 511035N 0005054W - 511101N 0005355W - 511535N 0005748W thence clockwise by the arc of a circle radius 4.7168 NM centred on 511256N 0005136W to - 511705N 0005508W Upper limit: 5500 FT ALT Lower limit: 1500 FT ALT Class: D	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	133.440 Transit Requests 134.355 Approach Radar	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
FARNBOROUGH CTA 3 511535N 0005748W - 511101N 0005355W - 511143N 0005851W thence clockwise by the arc of a circle radius 4.7168 NM centred on 511256N 0005136W to - 511535N 0005748W Upper limit: 5500 FT ALT Lower limit: 2000 FT ALT Class: D	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	133.440 Transit Requests 134.355 Approach Radar	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
FARNBOROUGH CTA 4 511520N 0003639W - 511014N 0003325W - 510832N 0004055W - 510632N 0003937W - 510449N 0004709W - 510652N 0004829W - 511035N 0005054W - 511520N 0003639W Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	133.440 Transit Requests 134.355 Approach Radar	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
FARNBOROUGH CTA 5 510652N 0004829W - 510449N 0004709W - 510602N 0005439W - 510652N 0004829W Upper limit: 4500 FT ALT Lower limit: 2500 FT ALT Class: D	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	133.440 Transit Requests 134.355 Approach Radar	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
FARNBOROUGH CTA 6 511143N 0005851W - 511035N 0005054W - 510652N 0004829W - 510602N 0005439W - 511143N 0005851W Upper limit: 5500 FT ALT Lower limit: 2500 FT ALT Class: D	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	133.440 Transit Requests 134.355 Approach Radar	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
FARNBOROUGH CTA 7 510533N 0005140W - 510449N 0004709W - 510047N 0004433W - 510047N 0005251W - 510533N 0005140W Upper limit: 4500 FT ALT Lower limit: 3500 FT ALT Class: D	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	133.440 Transit Requests 134.355 Approach Radar	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
FARNBOROUGH CTA 8 510957N 0005732W - 510602N 0005439W - 510047N 0005251W - 505435N 0010335W - 510420N 0010657W - 510636N 0010817W - 510957N 0005732W Upper limit: 5500 FT ALT Lower limit: 4500 FT ALT Class: E	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	125.250 Transit Requests 134.355 Approach Radar	IFR aircraft within this airspace may be under the control of Farnborough Radar, Solent Radar or London Control. VFR aircraft are strongly recommended to seek a service from Farnborough Radar when transiting this Class E Airspace. Farnborough CTA 8 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. Provisions for non-equipped aircraft are promulgated by the controlling authority 01252-526015 (ATC-Radar). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
FARNBOROUGH CTA 9 505739N 0004104W - 505119N 0003419W - 505119N 0005457W - 505512N 0005908W - 505739N 0004104W Upper limit: FL65 Lower limit: 5500 FT ALT Class: E	FARNBOROUGH APP	FARNBOROUGH RADAR English Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	125.250 Transit Requests 134.355 Approach Radar	IFR aircraft within this airspace may be under the control of Farnborough Radar, Solent Radar or London Control. VFR aircraft are strongly recommended to seek a service from Farnborough Radar when transiting this Class E Airspace. CAUTION: The ceiling of Farnborough CTA 9 is FL 65 regardless of QNH, with Class A London TMA Airspace immediately above. Farnborough CTA 9 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. Provisions for non-equipped aircraft are promulgated by the controlling authority 01252-526015 (ATC-Radar). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
FORTH CTA 1 572130N 0022334W - 571838N 0021602W - 571940N 0020701W - 571542N 0020528W - 571437N 0020959W - 564257N 0025041W - 562341N 0031445W - 562219N 0031721W - 561400N 0033259W following the line of latitude to - 561400N 0040926W - 562000N 0034746W - 562948N 0032900W - 564838N 0030536W - 572130N 0022334W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is incorporated within this CTA.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
FORTH CTA 2 563947N 0025440W - 560700N 0030304W following the line of latitude to - 560700N 0032107W - 562219N 0031721W - 562341N 0031445W - 563947N 0025440W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English Sat 0001 (2301) - Sun 2359 (2259).	124.500	Part of ATS Route N864 is incorporated within this CTA.
FORTH CTA 3 571542N 0020528W - 552653N 0012457W - 550123N 0013322W - 550218N 0014154W - 550637N 0013731W - 551011N 0014813W - 552647N 0014250W - 570627N 0022037W - 571437N 0020959W - 571542N 0020528W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Part of ATS Route P18 is incorporated within this CTA. Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z.
GLASGOW CTA 1 560700N 0034855W - 560700N 0040910W - 560400N 0042000W - 560130N 0040435W - 554434N 0040924W - 554349N 0034715W - 554806N 0035411W - 555724N 0035417W - 560700N 0034855W Upper limit: 6000 FT ALT Lower limit: 3000 FT ALT Class: D	GLASGOW APP	GLASGOW RADAR English H24	119.105 DOC 42 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
GLASGOW CTA 2 554349N 0034715W - 554434N 0040924W - 554132N 0042405W - 553700N 0042847W - 554125N 0041017W - 554125N 0034324W - 554349N 0034715W Upper limit: 6000 FT ALT Lower limit: 3500 FT ALT Class: D	GLASGOW APP	GLASGOW RADAR English H24	119.105 DOC 42 NM/15,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
HOLYHEAD CTA 1 531957N 0033954W - 531855N 0031647W - 530813N 0031736W - 531957N 0033954W Upper limit: FL195 Lower limit: FL145 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L15 and Q36. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
HOLYHEAD CTA 2 533944N 0033153W - 533213N 0031406W - 532621N 0032107W - 531909N 0032201W - 532006N 0034339W - 533054N 0034222W - 533944N 0033153W Upper limit: FL195 Lower limit: FL45 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L10, L15, L28, L70, L975, M146, Q4, Q36, Q37, Q38, Q39, Z195, Z196 and Z197. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 3 535106N 0035909W - 533944N 0033153W - 533054N 0034222W - 532006N 0034339W - 532043N 0035838W - 533754N 0035641W - 534254N 0040847W - 535106N 0035909W Upper limit: FL195 Lower limit: FL75 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L10, L15, L28, L70, L975, M144, M145, M146, Q4, Q36, Q37, Q38, Q39, Z195 and Z196. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 4 534329N 0041807W - 534309N 0040924W - 533754N 0035641W - 532043N 0035838W - 532134N 0042031W - 534329N 0041807W Upper limit: FL195 Lower limit: FL115 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L15, L70, L975, M144, M145, Q4, Q36, Q37 and Q38. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 5 540405N 0050040W - 534309N 0040924W - 534329N 0041807W - 532134N 0042031W - 532240N 0045156W - 534735N 0044937W - 534718N 0044057W - 540356N 0051933W - 540202N 0050543W - 540405N 0050040W Upper limit: FL195 Lower limit: FL145 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L15, L28, L70, L975, M144, M145, Q36, Q37, Q38 and Y911. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 6 535358N 0040608W - 535106N 0035909W - 534254N 0040847W - 534546N 0041545W - 535358N 0040608W Upper limit: FL195 Lower limit: FL45 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L10, L28, M145, M146 and Q39. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
HOLYHEAD CTA 7 540805N 0044053W - 535358N 0040608W - 534546N 0041545W - 535956N 0045043W - 540805N 0044053W Upper limit: FL195 Lower limit: FL45 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L10, M146, Q39 and Z198. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: During the notified hours of operation of the Isle of Man CTR/ CTA the lower limit of the portions of the CTA coincident with the Isle of Man CTR/CTA will be FL 105.
HOLYHEAD CTA 8 541627N 0043100W - 541125N 0041845W - 540307N 0042834W - 540805N 0044053W - 541627N 0043100W Upper limit: FL195 Lower limit: FL135 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: M147 and M148. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 9 532240N 0045156W - 532221N 0044336W - 531023N 0044444W - 531040N 0045301W - 532240N 0045156W Upper limit: FL195 Lower limit: FL145 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Part of ATS Route Y124 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 10 532315N 0051017W - 532240N 0045156W - 531040N 0045301W - 531117N 0051112W - 532315N 0051017W Upper limit: FL195 Lower limit: FL145 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	129.180	Part of ATS Route Y124 is incorporated within the CTA. The provision of ATS within Holyhead CTA 10 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
HOLYHEAD CTA 11 532315N 0051017W - 531117N 0051112W - 531149N 0053000W - 531500N 0053000W - 532315N 0051017W Upper limit: FL195 Lower limit: FL115 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	129.180	Part of ATS Route Y124 is incorporated within the CTA. The provision of ATS within Holyhead CTA 11 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 12 533548N 0053000W - 533513N 0050915W - 532315N 0051017W - 531500N 0053000W - 533548N 0053000W Upper limit: FL195 Lower limit: FL35 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	129.180	Parts of the following ATS Routes are incorporated within the CTA: L975, Q36, Q37 and Y124. The provision of ATS within Holyhead CTA 12 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 13 534811N 0050807W - 534735N 0044937W - 532240N 0045156W - 532315N 0051017W - 534811N 0050807W Upper limit: FL195 Lower limit: FL115 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	129.180	Parts of the following ATS Routes are incorporated within the CTA: L70, L975, M144, M145, Q36 and Q37. The provision of ATS within Holyhead CTA 13 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 14 534848N 0053000W - 534811N 0050807W - 533513N 0050915W - 533548N 0053000W - 534848N 0053000W Upper limit: FL195 Lower limit: FL75 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	129.180	Parts of the following ATS Routes are incorporated within the CTA: L70, M144, M145 and Y911. The provision of ATS within Holyhead CTA 14 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
HOLYHEAD CTA 15 540005N 0051032W - 535351N 0045602W - 534814N 0050951W - 534848N 0053000W - 535207N 0053000W - 540005N 0051032W Upper limit: FL195 Lower limit: FL75 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Part of ATS Route Y911 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Holyhead CTA 15 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.
HOLYHEAD CTA 16 540405N 0050040W - 535758N 0044548W - 535351N 0045602W - 540005N 0051032W - 540405N 0050040W Upper limit: FL145 Lower limit: FL75 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Part of ATS Route Y911 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: Holyhead CTA 16 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. Note 2: During the notified hours of operation of the Isle of Man CTR/ CTA the lower limit of the portion of the CTA coincident with the Isle of Man CTR/CTA will be FL 105.
HOLYHEAD CTA 17 533213N 0031406W - 532734N 0030310W - 532336N 0031110W - 532345N 0031625W - 531855N 0031647W - 531909N 0032201W - 532621N 0032107W - 533213N 0031406W Upper limit: FL195 Lower limit: 3500 FT ALT Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Parts of the following ATS Routes are incorporated within the CTA: L10, L975, M146, N864, Q4, Q38 and Z197. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
HOLYHEAD CTA 18 534150N 0033653W - 533918N 0023900W - 533630N 0030136W - 533222N 0030059W - 533213N 0031406W - 534150N 0033653W Upper limit: FL195 Lower limit: FL85 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Parts of the following ATS Routes are incorporated within the CTA: L28, L60, L70, N864 and Z196. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Warton operational requirements may require ATC to tactically vector flights outside this CTA.
HOLYHEAD CTA 19 531035N 0053000W - 530329N 0051705W - 525606N 0052813W - 525705N 0053000W - 531035N 0053000W Upper limit: FL195 Lower limit: FL55 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	124.650	Part of ATS Route L18 is incorporated within the CTA. The provision of ATS within Holyhead CTA 19 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 20 530329N 0051705W - 525038N 0045358W - 524318N 0050508W - 525606N 0052813W - 530329N 0051705W Upper limit: FL195 Lower limit: FL85 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	124.650	Part of ATS Route L18 is incorporated within the CTA. The provision of ATS within Holyhead CTA 20 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
HOLYHEAD CTA 21 525038N 0045358W - 524310N 0044042W - 523550N 0045151W - 524318N 0050508W - 525038N 0045358W Upper limit: FL195 Lower limit: FL145 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	124.650	Part of ATS Route L18 is incorporated within the CTA. The provision of ATS within Holyhead CTA 21 is delegated to Dublin ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
HOLYHEAD CTA 22 533918N 0023900W - 533223N 0025907W - 533222N 0030059W - 533630N 0030136W - 533918N 0023900W Upper limit: FL195 Lower limit: FL145 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Part of ATS Route L70 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Warton operational requirements may require ATC to tactically vector flights outside this CTA.
IRISH SEA CTA 1 552044N 0053924W - 551527N 0050000W - 551511N 0050000W - 551214N 0050234W - 550806N 0043002W - 550251N 0045118W - 545120N 0050118W - 543138N 0050835W - 540246N 0035756W - 535556N 0040608W - 535419N 0042151W - 534617N 0043112W - 534817N 0053000W - 535500N 0053000W - 542500N 0081000W - 551324N 0070414W - 552044N 0053924W Upper limit: FL255 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: L10, L15, (U)L28, L603, M146, M147, M148, N34, P6, P600, P620, Q38, Q39, UN57, Y911 and Z198.
IRISH SEA CTA 2 535556N 0040608W - 535522N 0040649W - 535358N 0040608W - 534150N 0033653W - 533918N 0023900W - 533223N 0025907W - 533213N 0031406W - 532734N 0030310W - 532336N 0031110W - 532345N 0031625W - 530813N 0031736W - 531957N 0033954W - 532240N 0045156W - 534658N 0044941W - 534617N 0043112W - 535419N 0042151W - 535556N 0040608W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Parts of the following ATS Routes are incorporated within the CTA: L10, L15, L28, L70, L975, M144, M145, M146, N864, Q4, Q36, Q37, Q38, Q39, Y124, Z195, Z196, Z197 and Z198.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
IRISH SEA CTA 3 532240N 0045156W - 531957N 0033954W - 530813N 0031736W - 530656N 0031741W - 531040N 0045301W - 532240N 0045156W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.050	Part of ATS Route Y124 is incorporated within the CTA.
IRISH SEA CTA 4 532315N 0051017W - 532240N 0045156W - 531040N 0045301W - 531149N 0053000W - 531500N 0053000W - 532315N 0051017W Upper limit: FL245 Lower limit: FL195 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	129.180	Part of ATS Route Y124 is incorporated within the CTA. The provision of ATS within Irish Sea CTA 4 is delegated to Dublin ACC.
IRISH SEA CTA 5 534817N 0053000W - 534658N 0044941W - 532240N 0045156W - 532315N 0051017W - 531500N 0053000W - 534817N 0053000W Upper limit: FL245 Lower limit: FL195 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	129.180	Parts of the following ATS Routes are incorporated within the CTA: L70, L975, M144, M145, Q36, Q37 and Y124. The provision of ATS within Irish Sea CTA 5 is delegated to Dublin ACC.
IRISH SEA CTA 6 531035N 0053000W - 524310N 0044042W - 523550N 0045151W - 525705N 0053000W - 531035N 0053000W Upper limit: FL245 Lower limit: FL195 Class: C	DUBLIN ACC	DUBLIN CONTROL English H24	124.650	Part of ATS Route L18 is incorporated within the CTA. The provision of ATS within Irish Sea CTA 6 is delegated to Dublin ACC.
IRISH SEA CTA 7 524310N 0044042W - 522931N 0041647W - 522212N 0042754W - 523550N 0045151W - 524310N 0044042W Upper limit: FL245 Lower limit: FL195 Class: C	LONDON ACC	LONDON CONTROL English H24	129.380	Part of ATS Route L18 is incorporated within the CTA.
ISLE OF MAN CTA 1 535826N 0041702W - 534858N 0042805W - 535411N 0044824W - 535743N 0042028W thence anti-clockwise by the arc of a circle radius 8.5 NM centred on 540600N 0042335W to - 535826N 0041702W Upper limit: FL105 Lower limit: 1500 FT ALT Class: D	ISLE OF MAN APP	RONALDSWAY RADAR English Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	135.905 Also CTR channel. DOC 50 NM/ 16,000 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
ISLE OF MAN CTA 2 541609N 0050021W - 541122N 0044846W - 541056N 0045159W thence anti-clockwise by the arc of a circle radius 8.5 NM centred on 540240N 0044845W to 540455N 0050240W - 540759N 0051008W - 541609N 0050021W Upper limit: FL105 Lower limit: 2500 FT ALT Class: D	ISLE OF MAN APP	RONALDSWAY RADAR English Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	135.905 Also CTR channel. DOC 50 NM/ 16,000 FT.	CTA Chart published in AD-2 Section.
ISLE OF MAN CTA 3 540233N 0041024W - 535740N 0040758W - 534700N 0042028W - 534858N 0042805W - 535826N 0041702W thence anti-clockwise by the arc of a circle radius 8.5 NM centred on 540600N 0042335W to - 540233N 0041024W Upper limit: FL105 Lower limit: 2500 FT ALT Class: D	ISLE OF MAN APP	RONALDSWAY RADAR English Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	135.905 Also CTR channel. DOC 50 NM/ 16,000 FT.	CTA Chart published in AD-2 Section.
ISLE OF MAN CTA 4 535740N 0040758W - 535358N 0040608W - 534546N 0041545W - 534700N 0042028W - 535740N 0040758W Upper limit: FL105 Lower limit: 3500 FT ALT Class: D	ISLE OF MAN APP	RONALDSWAY RADAR English Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	135.905 Also CTR channel. DOC 50 NM/ 16,000 FT.	CTA Chart published in AD-2 Section.
LEEDS BRADFORD CTA 1 534904N 0012703W - 534445N 0012327W thence clockwise by the arc of a circle radius 12 NM centred on 535157N 0013938W to 534032N 0013331W - 534359N 0013847W thence anti-clockwise by the arc of a circle radius 8 NM centred on 535157N 0013938W to - 534904N 0012703W Upper limit: FL85 Lower limit: 2500 FT ALT Class: D	LEEDS BRADFORD APP	LEEDS RADAR English H24	134.580 DOC 40 NM/10,000 FT	A Transition Altitude of 5000 FT is effective within the Leeds Bradford CTR/CTA during the notified hours of operation. To operate UAS above 400 FT AGL within this area, UAS operators a required to notify Leeds Bradford Airport ATC via email ATC@lba.co.uk at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LEEDS BRADFORD CTA 2 535312N 0015259W - 534359N 0013847W thence clockwise by the arc of a circle radius 8 NM centred on 535157N 0013938W to - 535312N 0015259W Upper limit: FL85 Lower limit: 2500 FT ALT Class: D	LEEDS BRADFORD APP	LEEDS RADAR English H24	134.580 DOC 40 NM/10,000 FT	A Transition Altitude of 5000 FT is effective within the Leeds Bradford CTR/CTA during the notified hours of operation. To operate UAS above 400 FT AGL within this area, UAS operators a required to notify Leeds Bradford Airport ATC via email ATC@lba.co.uk at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
LEEDS BRADFORD CTA 3 540236N 0014900W - 535955N 0014027W thence anti-clockwise by the arc of a circle radius 8 NM centred on 535157N 0013938W to 534359N 0013847W - 534032N 0013331W thence anti-clockwise by the arc of a circle radius 12 NM centred on 535157N 0013938W to 534445N 0012327W - 534007N 0011937W - 533713N 0014830W - 534726N 0015913W - 535539N 0020919W - 540236N 0014900W Upper limit: FL85 Lower limit: 3000 FT ALT Class: D	LEEDS BRADFORD APP	LEEDS RADAR English H24	134.580 DOC 40 NM/10,000 FT	A Transition Altitude of 5000 FT is effective within the Leeds Bradford CTR/CTA during the notified hours of operation. To operate UAS above 400 FT AGL within this area, UAS operators a required to notify Leeds Bradford Airport ATC via email ATC@lba.co.uk at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LINCOLNSHIRE CTA 1 532830N 0001732W - 532204N 0000431E - 531717N 0000155E - 531222N 0000029E - 531232N 0000107W - 530618N 0000428W - 531101N 0002908W - 532007N 0002420W - 532830N 0001732W Upper limit: FL195 Lower limit: FL155 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	Parts of the following ATS Routes are incorporated within the CTA: L60, L603 and Y70. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
LINCOLNSHIRE CTA 2 533225N 0003106W - 532830N 0001732W - 532007N 0002420W - 531101N 0002908W - 531343N 0004324W - 532325N 0003820W - 533225N 0003106W Upper limit: FL195 Lower limit: FL125 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	Parts of the following ATS Routes are incorporated within the CTA: L60, L603 and Y70. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
LINCOLNSHIRE CTA 3 533619N 0004448W - 533225N 0003106W - 532325N 0003820W - 531343N 0004324W - 531938N 0011532W - 533059N 0010932W - 533109N 0010751W - 533119N 0010614W - 532643N 0004958W - 533619N 0004448W Upper limit: FL195 Lower limit: FL105 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	Parts of the following ATS Routes are incorporated within the CTA: L60, L603 and Y70. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LINCOLNSHIRE CTA 4 534117N 0010226W - 533619N 0004448W - 532643N 0004958W - 533119N 0010614W - 533109N 0010751W - 534117N 0010226W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	Part of the following ATS Route is incorporated within the CTA: Y70. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
LIVERPOOL CTA 1 532817N 0025719W - 532331N 0030804W - 531924N 0030735W - 532309N 0031205W - 532734N 0030310W - 532817N 0025719W Upper limit: 3500 FT ALT Lower limit: 1500 FT ALT Class: D	LIVERPOOL APP	LIVERPOOL RADAR English H24	119.855 DOC 40 NM/10,000 FT	CTA Chart published in AD-2 Section.
LIVERPOOL CTA 2 532734N 0030310W - 532336N 0031110W - 532345N 0031625W - 531855N 0031647W - 531909N 0032201W - 532621N 0032107W - 533213N 0031406W - 532734N 0030310W Upper limit: 3500 FT ALT Lower limit: 2000 FT ALT Class: D	LIVERPOOL APP	LIVERPOOL RADAR English H24	119.855 DOC 40 NM/10,000 FT	CTA Chart published in AD-2 Section.
LIVERPOOL CTA 3 532902N 0025059W - 531309N 0025059W - 531427N 0030140W - 531924N 0030735W - 532331N 0030804W - 532817N 0025719W - 532902N 0025059W Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	LIVERPOOL APP	LIVERPOOL RADAR English H24	119.855 DOC 40 NM/10,000 FT	CTA Chart published in AD-2 Section.
LIVERPOOL CTA 4 532336N 0031110W - 532309N 0031205W - 531427N 0030140W - 531855N 0031647W - 532345N 0031625W - 532336N 0031110W Upper limit: 3000 FT ALT Lower limit: 2000 FT ALT Class: D	LIVERPOOL APP	LIVERPOOL RADAR English H24	119.855 DOC 40 NM/10,000 FT	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
LONDON GATWICK CTA 510100N 0000458E - 510100N 0002545W thence clockwise by the arc of a circle radius 12 NM centred on 510853N 0001125W to 511124N 0003003W - 511618N 0000533E thence clockwise by the arc of a circle radius 13 NM centred on 510853N 0001125W to - 510100N 0000458E but excluding the Gatwick CTR. Upper limit: 2500 FT ALT Lower limit: 1500 FT ALT Class: D	LONDON GATWICK APP	GATWICK DIRECTOR English H24	118.950 When instructed by ATC. DOC 25 NM/10,000 FT. 121.500 Emergency frequency O/R. 126.825 DOC 45 NM/24,500 FT. 129.025 When instructed by ATC. DOC 45 NM/24,500 FT.	See EGKR AD 2.22, Section (3) for details of Redhill Local Flying Area. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 1 515857N 0001434W - 520127N 0000000E - 515146N 0000006W - 515102N 0000030W - 514830N 0001506W - 515042N 0000931W thence anti-clockwise by the arc of a circle radius 8 NM centred on 515229N 0002206W to - 515857N 0001434W Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 2 514810N 0004155W - 514905N 0003647W - 514503N 0003457W - 514409N 0004005W - 514810N 0004155W Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 3 514810N 0004155W - 515150N 0004336W - 515244N 0003828W - 514905N 0003647W - 514810N 0004155W Upper limit: 5500 FT ALT Lower limit: 2500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 4 515150N 0004336W - 514810N 0004155W - 514659N 0004838W - 515048N 0004926W - 515150N 0004336W Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDON LUTON CTA 5 520038N 0002832W - 515743N 0002145W - 515021N 0002931W - 514905N 0003647W - 515244N 0003828W - 515258N 0003709W - 520038N 0002832W Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 6 520316N 0003441W - 520038N 0002832W - 515258N 0003709W - 515244N 0003828W - 515503N 0004353W - 520316N 0003441W Upper limit: 5500 FT ALT Lower limit: 4500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 7 520606N 0001712W - 515935N 0001056W - 515743N 0002145W - 520038N 0002832W - 520606N 0001712W Upper limit: 4500 FT ALT Lower limit: 3500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 8 515150N 0004336W - 515244N 0003828W - 515503N 0004353W - 515150N 0004336W Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON LUTON CTA 9 515150N 0004336W - 515503N 0004353W - 515749N 0004048W - 515356N 0005006W - 515048N 0004926W - 515150N 0004336W Upper limit: 5500 FT ALT Lower limit: 4500 FT ALT Class: D	LONDON LUTON APP	LUTON RADAR English H24	129.550 132.050 When directed by ATC.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
LONDON STANSTED CTA 1 515416N 0002653E thence anti-clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to 520104N 0001503E - 520517N 0002124E thence clockwise by the arc of a circle radius 13 NM centred on 515306N 0001406E to 515828N 0003314E - 515416N 0002653E Upper limit: 3500 FT ALT Lower limit: 1500 FT ALT Class: D	LONDON STANSTED APP	STANSTED RADAR English H24	120.625 132.050 As directed by ATC.	A pilot wishing to fly within the CTR/ CTA must unless otherwise notified, comply with the following procedures: 1 Call the appropriate ATC Unit on the frequency giving details of the aircraft's position, level and proposed track. 2 Obtain clearance from the appropriate ATC Unit for the flight. 3 Listen out on the appropriate frequency. 4 Obey all instructions from the appropriate ATC Unit. See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON STANSTED CTA 2 514508N 0001309E - 514055N 0000652E thence clockwise by the arc of a circle radius 13 NM centred on 515306N 0001406E to 514550N 0000316W - 515146N 0000006W - 515155N 0000120E thence anti-clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to - 514508N 0001309E Upper limit: 2500 FT ALT Lower limit: 1500 FT ALT Class: D	LONDON STANSTED APP	STANSTED RADAR English H24	120.625 132.050 As directed by ATC.	A pilot wishing to fly within the CTR/ CTA must unless otherwise notified, comply with the following procedures: 1 Call the appropriate ATC Unit on the frequency giving details of the aircraft's position, level and proposed track. 2 Obtain clearance from the appropriate ATC Unit for the flight. 3 Listen out on the appropriate frequency. 4 Obey all instructions from the appropriate ATC Unit. See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDON STANSTED CTA 3 515828N 0003314E thence clockwise by the arc of a circle radius 13 NM centred on 515306N 0001406E to 515349N 0003503E - 514556N 0002309E - 514508N 0001309E - 515828N 0003314E Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	LONDON STANSTED APP	STANSTED RADAR English H24	120.625 132.050 As directed by ATC.	A pilot wishing to fly within the CTR/ CTA must unless otherwise notified, comply with the following procedures: 1 Call the appropriate ATC Unit on the frequency giving details of the aircraft's position, level and proposed track. 2 Obtain clearance from the appropriate ATC Unit for the flight. 3 Listen out on the appropriate frequency. 4 Obey all instructions from the appropriate ATC Unit. See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
LONDON STANSTED CTA 4 520300N 0000907E - 520517N 0002124E - 515155N 0000120E - 515146N 0000006W - 520127N 0000000E - 520300N 0000907E Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	LONDON STANSTED APP	STANSTED RADAR English H24	120.625 132.050 As directed by ATC.	A pilot wishing to fly within the CTR/ CTA must unless otherwise notified, comply with the following procedures: 1 Call the appropriate ATC Unit on the frequency giving details of the aircraft's position, level and proposed track. 2 Obtain clearance from the appropriate ATC Unit for the flight. 3 Listen out on the appropriate frequency. 4 Obey all instructions from the appropriate ATC Unit. See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
LONDON/CITY CTA 513547N 0001221W - 513505N 0001022E thence clockwise by the arc of a circle radius 6.5 NM centred on 513019N 0000319E to 512507N 0000932E - 512541N 0000828W thence anti-clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 512640N 0000811W - 512610N 0000747E thence anti-clockwise by the arc of a circle radius 5 NM centred on 513019N 0000319E to 513409N 0000826E - 513445N 0001108W thence anti-clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to - 513547N 0001221W Upper limit: 2500 FT ALT Lower limit: 1500 FT ALT Class: D	LONDON CITY APP	HEATHROW RADAR English H24	125.625	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
		THAMES DIRECTOR English As directed by ATC.	128.025 132.700 133.455	
LONDONDERRY/EGLINTON CTA 1 550527N 0071520W - 545506N 0072926W - 550205N 0073332W - 550527N 0071520W Upper limit: FL75 Lower limit: 1500 FT ALT Class: C	LONDONDERRY APP	EGLINTON APPROACH English	123.625 DOC 25 NM/10000 FT	VMC visibility and distance from cloud minima applicable in this Class C Airspace in accordance with ICAO criteria. (5 KM visibility, 1500 M horizontal and 1000 FT vertical distance from cloud). Outside the published hours of operation of Eglinton ATC (or NOTAM extension thereof), the blocks of Airspace CTA 1, CTA 2 and CTA 3, revert to Class G Airspace under the authority of Shannon ACC. CTA Chart published in AD-2 Section.
LONDONDERRY/EGLINTON CTA 2 550205N 0073332W - 545506N 0072926W - 545212N 0073329W - 550114N 0073807W - 550205N 0073332W Upper limit: FL75 Lower limit: 2000 FT ALT Class: C	LONDONDERRY APP	EGLINTON APPROACH English	123.625 DOC 25 NM/10000 FT	VMC visibility and distance from cloud minima applicable in this Class C Airspace in accordance with ICAO criteria. (5 KM visibility, 1500 M horizontal and 1000 FT vertical distance from cloud). Outside the published hours of operation of Eglinton ATC (or NOTAM extension thereof), the blocks of Airspace CTA 1, CTA 2 and CTA 3, revert to Class G Airspace under the authority of Shannon ACC. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDONDERRY/EGLINTON CTA 3 551217N 0070547W - 550527N 0071520W - 550317N 0072703W thence clockwise by the arc of a circle radius 10 NM centred on 550234N 0070943W to - 551217N 0070547W Upper limit: FL75 Lower limit: 3000 FT ALT Class: C	LONDONDERRY APP	EGLINTON APPROACH English	123.625 DOC 25 NM/10000 FT	VMC visibility and distance from cloud minima applicable in this Class C Airspace in accordance with ICAO criteria. (5 KM visibility, 1500 M horizontal and 1000 FT vertical distance from cloud). Outside the published hours of operation of Eglinton ATC (or NOTAM extension thereof), the blocks of Airspace CTA 1, CTA 2 and CTA 3, revert to Class G Airspace under the authority of Shannon ACC. CTA Chart published in AD-2 Section.
MANCHESTER CTA 1 533430N 0020400W - 532734N 0030310W - 533200N 0025000W - 533430N 0020400W Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	MANCHESTER APP	MANCHESTER DIRECTOR English As directed by ATC.	121.355 DOC 25 NM/10,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
		MANCHESTER RADAR English H24	118.580 DOC 40 NM/15,000 FT.	
			135.005 DOC 40 NM/15,000 FT.	
MANCHESTER CTA 2 531047N 0020459W - 530602N 0022246W - 530626N 0024349W - 531427N 0030140W - 531050N 0023224W - 531055N 0022207W - 531616N 0020131W - 531047N 0020459W Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	MANCHESTER APP	MANCHESTER DIRECTOR English As directed by ATC.	121.355 DOC 25 NM/10,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
		MANCHESTER RADAR English H24	118.580 DOC 40 NM/15,000 FT.	
			135.005 DOC 40 NM/15,000 FT.	
MANCHESTER CTA 3 533650N 0015216W - 532719N 0014617W - 532656N 0015000W - 530732N 0020056W - 531047N 0020459W - 532730N 0015400W - 533430N 0020400W - 533650N 0015216W Upper limit: 3500 FT ALT Lower limit: 3000 FT ALT Class: D	MANCHESTER APP	MANCHESTER DIRECTOR English As directed by ATC.	121.355 DOC 25 NM/10,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
		MANCHESTER RADAR English H24	118.580 DOC 40 NM/15,000 FT.	
			135.005 DOC 40 NM/15,000 FT.	
MANCHESTER CTA 4 533011N 0024123W - 532708N 0023744W - 531130N 0023744W - 531309N 0025059W - 532902N 0025059W - 533011N 0024123W Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	MANCHESTER APP	MANCHESTER DIRECTOR English As directed by ATC.	121.355 DOC 25 NM/10,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
		MANCHESTER RADAR English H24	118.580 DOC 40 NM/15,000 FT.	
			135.005 DOC 40 NM/15,000 FT.	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
MANCHESTER CTA 5 533124N 0023102W - 532056N 0023103W - 532638N 0022258W - 533430N 0020400W - 533124N 0023102W Upper limit: 3500 FT ALT Lower limit: 2000 FT ALT Class: D	MANCHESTER APP	MANCHESTER DIRECTOR English As directed by ATC.	121.355 DOC 25 NM/10,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
		MANCHESTER RADAR English H24	118.580 DOC 40 NM/15,000 FT.	
			135.005 DOC 40 NM/15,000 FT.	
MANCHESTER CTA 6 533124N 0023102W - 532056N 0023103W - 532141N 0023000W - 531255N 0023000W - 531050N 0022814W following the line of latitude to - 531050N 0023224W - 531130N 0023744W - 532708N 0023744W - 533011N 0024123W - 533124N 0023102W Upper limit: 3500 FT ALT Lower limit: 1500 FT ALT Class: D	MANCHESTER APP	MANCHESTER DIRECTOR English As directed by ATC.	121.355 DOC 25 NM/10,000 FT.	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. CTA Chart published in AD-2 Section.
		MANCHESTER RADAR English H24	118.580 DOC 40 NM/15,000 FT.	
			135.005 DOC 40 NM/15,000 FT.	
MIDLANDS CTA 532719N 0014617W - 532227N 0014315W - 532109N 0012904W - 532012N 0011840W - 531755N 0010606W - 530016N 0010043W - 522631N 0002729W - 522632N 0003702W - 521126N 0002220W - 520316N 0003441W - 520421N 0003712W - 515745N 0011126W - 514420N 0010041W - 513423N 0011138W - 513640N 0013011W - 513911N 0012629W - 513945N 0012646W - 514412N 0014010W - 514457N 0015035W - 514707N 0020509W - 515351N 0023017W - 515640N 0024718W - 515749N 0032602W - 523810N 0032308W - 524429N 0031923W - 532345N 0031625W - 532336N 0031110W - 532309N 0031205W - 531427N 0030140W - 530626N 0024349W - 530602N 0022246W - 530732N 0020056W - 532656N 0015000W - 532719N 0014617W Upper limit: FL245 Lower limit: FL195 Class: C	LONDON ACC	LONDON CONTROL English H24	127.105	Parts of the following ATS Routes are incorporated within the CTA: L8, L9, L10, L15, L28, L151, L180, L608, L612, M183, M605, M868, N14, N38, N42, N57, N58, N84, N91, N92, N93, N601, N859, N862, N864, P6, P16, P17, P18, P69, P86, P155, P166, Q4, Q36, Q38, Q41, T418, T420, T421, Y53, Y124, Y125, Y250, Y321, Y322 and Z197.
			129.205	
			130.925	
			133.600	
			134.390	
	SCOTTISH ACC	SCOTTISH CONTROL English H24	118.780	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
MORAY CTA 1 573706N 0015736W - 573556N 0013910W - 573333N 0013540W - 572422N 0012815W - 570417N 0014929W thence anti-clockwise by the arc of a circle radius 10 NM centred on 570531N 0020740W to 570845N 0015019W - 572153N 0015835W thence anti-clockwise by the arc of a circle radius 10 NM centred on 571834N 0021602W to 572100N 0023356W - 573241N 0023554W - 573613N 0021832W - 573706N 0015736W Upper limit: FL195 Lower limit: 4500 FT ALT Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Routes P600, Y904 and Y905 are contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 2 574643N 0003720W - 573731N 0003007W - 572758N 0011242W - 572422N 0012815W - 573333N 0013540W - 573708N 0012004W - 574643N 0003720W Upper limit: FL195 Lower limit: FL105 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Route P600 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 3 591927N 0011522W - 573556N 0013910W - 573706N 0015736W - 592039N 0013445W - 591927N 0011522W Upper limit: FL195 Lower limit: FL105 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Route Y905 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 4 593033N 0013227W - 592921N 0011258W - 591927N 0011522W - 592039N 0013445W - 593033N 0013227W Upper limit: FL195 Lower limit: FL75 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Route Y905 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
MORAY CTA 5 593331N 0013145W - 593219N 0011214W - 592921N 0011258W - 593033N 0013227W - 593331N 0013145W Upper limit: FL195 Lower limit: FL45 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Route Y905 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 6 582757N 0025607W - 573613N 0021832W - 573241N 0023554W - 581914N 0031000W - 582451N 0025723W - 582757N 0025607W Upper limit: FL155 Lower limit: FL75 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Route Y904 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 7 585837N 0030305W - 585632N 0024412W - 582451N 0025723W - 575213N 0040909W - 575449N 0043204W - 580345N 0041248W - 582356N 0032847W - 583014N 0031440W - 585837N 0030305W Upper limit: FL195 Lower limit: FL75 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Route N560 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 8 575820N 0050530W - 574511N 0042339W - 575449N 0043204W - 575213N 0040909W - 573320N 0035256W - 571206N 0035820W - 571327N 0041634W - 572958N 0041230W - 573700N 0043424W - 574940N 0051447W - 575820N 0050530W Upper limit: FL195 Lower limit: FL95 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275 134.800	Part of ATS Route N560 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
MORAY CTA 9 581645N 0060617W - 575820N 0050530W - 574940N 0051447W - 580805N 0061540W - 581645N 0060617W Upper limit: FL195 Lower limit: FL55 Minimum limit: 5200 FT ALT Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part of ATS Route N560 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 10 571327N 0041634W - 571206N 0035820W - 564120N 0040600W - 564239N 0042359W - 571327N 0041634W Upper limit: FL195 Lower limit: FL105 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part of ATS Route N560 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 11 564239N 0042359W - 564120N 0040600W - 562708N 0040928W - 562827N 0042720W - 564239N 0042359W Upper limit: FL195 Lower limit: FL125 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part of ATS Route N560 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 12 564239N 0042359W - 564120N 0040600W - 562708N 0040928W - 562827N 0042720W - 564239N 0042359W Upper limit: FL125 Lower limit: FL105 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English As notified.	127.275	Part of ATS Route N560 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). Activation of the airspace will be during notified activation of EGD713/EGD713Z for Exercise Joint Warrior and other large military exercises as notified to facilitate access to the ATS Route N560. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
MORAY CTA 13 562827N 0042720W - 562708N 0040928W - 561235N 0041258W - 560432N 0043253W - 562827N 0042720W Upper limit: FL195 Lower limit: 5500 FT ALT Class: E	SCOTTISH ACC	SCOTTISH CONTROL English As notified.	127.275	Part of ATS Route N560 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). Activation of the airspace will be during notified activation of EGD713/EGD713Z for Exercise Joint Warrior and other large military exercises as notified to facilitate access to the ATS Route N560. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MORAY CTA 14 570758N 0041754W - 570638N 0035943W - 561235N 0041258W - 560432N 0043253W - 570758N 0041754W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	127.275	Part of ATS Route N560 is incorporated within this CTA.
MORAY CTA 15 575758N 0001444E - 574844N 0002151E - 572758N 0011242W - 573708N 0012004W - 575758N 0001444E Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is contained within this CTA.
MORAY CTA 16 595319N 0012703W - 595207N 0010721W - 593219N 0011214W - 593331N 0013145W - 595319N 0012703W Upper limit: FL195 Lower limit: FL45 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	134.850	Part of ATS Route Y905 is contained within the CTA. Class E + TMZ (Transponder Mandatory Zone). During notified hours of operation of the Sumburgh CTA/CTR the lower limit of Moray CTA 16 changes to FL 100. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
MORAY CTA 17 572453N 0023020W thence clockwise by the arc of a circle radius 10 NM centred on 571834N 0021602W to 572153N 0015835W - 572100N 0015802W - 571755N 0015605W - 571542N 0020528W - 571940N 0020701W - 571838N 0021602W - 572130N 0022334W - 571920N 0022624W - 572453N 0023020W Upper limit: FL195 Lower limit: FL115 Class: E	SCOTTISH ACC	SCOTTISH CONTROL English As notified.	124.500	Part of ATS Routes P600 and Y904 are incorporated within this CTA. Class E + TMZ (Transponder Mandatory Zone). To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
NEWCASTLE CTA 1 550345N 0020020W - 550525N 0015411W thence anti-clockwise by the arc of a circle radius 8 NM centred on 550217N 0014123W to 545500N 0014705W - 545336N 0015304W thence clockwise by the arc of a circle radius 11 NM centred on 550217N 0014123W to - 550345N 0020020W Upper limit: FL105 Lower limit: 1500 FT ALT Class: D	NEWCASTLE APP	NEWCASTLE RADAR English H24	124.380 DOC 60 NM/25,000 FT.	CTA Chart published in AD-2 Section.
NEWCASTLE CTA 2 550955N 0013719W - 551134N 0013108W thence clockwise by the arc of a circle radius 11 NM centred on 550217N 0014123W to 550042N 0012228W - 545919N 0012829W thence anti-clockwise by the arc of a circle radius 8 NM centred on 550217N 0014123W to - 550955N 0013719W Upper limit: FL105 Lower limit: 1500 FT ALT Class: D	NEWCASTLE APP	NEWCASTLE RADAR English H24	124.380 DOC 60 NM/25,000 FT.	CTA Chart published in AD-2 Section.
NEWCASTLE CTA 3 551338N 0012147W thence clockwise by the arc of a circle radius 16 NM centred on 550217N 0014123W to 550149N 0011336W - 545010N 0013330W - 545849N 0013040W - 550042N 0012228W thence anti-clockwise by the arc of a circle radius 11 NM centred on 550217N 0014123W to 551134N 0013108W - 551338N 0012147W Upper limit: FL105 Lower limit: 3000 FT ALT Class: D	NEWCASTLE APP	NEWCASTLE RADAR English H24	124.380 DOC 60 NM/25,000 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
NEWCASTLE CTA 4 550209N 0020030W thence anti-clockwise by the arc of a circle radius 11 NM centred on 550217N 0014123W to 545531N 0015626W - 544356N 0020004W - 550209N 0020030W Upper limit: FL105 Lower limit: 3000 FT ALT Class: D	NEWCASTLE APP	NEWCASTLE RADAR English H24	124.380 DOC 60 NM/25,000 FT.	CTA Chart published in AD-2 Section.
NEWCASTLE CTA 5 545849N 0013040W - 545010N 0013330W - 544356N 0020004W - 545531N 0015626W thence anti-clockwise by the arc of a circle radius 11 NM centred on 550217N 0014123W to 545336N 0015304W - 545849N 0013040W Upper limit: FL55 Lower limit: 3000 FT ALT Class: D	NEWCASTLE APP	NEWCASTLE RADAR English H24	124.380 DOC 60 NM/25,000 FT.	CTA Chart published in AD-2 Section.
NEWCASTLE CTA 6 545010N 0013330W - 544124N 0013620W - 544356N 0020004W - 545010N 0013330W Upper limit: FL55 Lower limit: 4500 FT ALT Class: D	NEWCASTLE APP	NEWCASTLE RADAR English H24	124.380 DOC 60 NM/25,000 FT.	CTA Chart published in AD-2 Section.
NEWCASTLE CTA 7 544356N 0020004W - 544219N 0014448W - 543724N 0014622W - 543901N 0020136W - 544356N 0020004W Upper limit: FL75 Lower limit: 6000 FT ALT Class: D	NEWCASTLE APP	NEWCASTLE RADAR English H24	124.380 DOC 60 NM/25,000 FT.	CTA Chart published in AD-2 Section.
NORTH SEA CTA 1 532204N 0000431E - 530815N 0020534E - 531139N 0023000E - 525206N 0023000E - 525820N 0020321E - 531222N 0000029E - 531717N 0000155E - 532204N 0000431E Upper limit: FL195 Lower limit: FL175 Class: A Upper limit: FL245 Lower limit: FL195 Class: C	LONDON ACC	LONDON CONTROL English H24	128.130 (Note 1)	Parts of the following ATS Routes are incorporated within North Sea CTA 1: L17, L60, L603, L989 and Y70. Note 1: GAT overflying the North Sea CTA 1. Note 2: Traffic shall not flight plan through this airspace unless via the routes listed above.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
NORTH SEA CTA 2 (GODOS) 534148N 0030000E - 533411N 0034222E - 531029N 0032158E - 531441N 0031102E - 531608N 0030000E - 534148N 0030000E Upper limit: FL195 Lower limit: FL175 Class: A Upper limit: FL245 Lower limit: FL195 Class: C	AMSTERDAM ACC	AMSTERDAM CONTROL English H24	123.700 (Note 1)	Parts of the following ATS Routes are incorporated within North Sea CTA 2: L74, M981 and P1. Note 1: GAT overflying the North Sea CTA 2. Note 2: ATS within CTA 2 is delegated to Amsterdam ACC. Note 3: Traffic shall not flight plan through this airspace unless via the routes listed above.
NORTH SEA CTA 3 (MOLIX) 532000N 0023000E - 531441N 0031102E - 531029N 0032158E - 523704N 0025356E - 524010N 0023000E - 532000N 0023000E Upper limit: FL195 Lower limit: FL175 Class: A Upper limit: FL245 Lower limit: FL195 Class: C	AMSTERDAM ACC	AMSTERDAM CONTROL English H24	123.700 (Note 1)	Parts of the following ATS Routes are incorporated within North Sea CTA 3: L17, L60, L602 and L603. Note 1: GAT overflying the North Sea CTA 3. Note 2: ATS within CTA 3 is delegated to Amsterdam ACC. Note 3: Traffic shall not flight plan through this airspace unless via the routes listed above.
NORTHERN CTA 1 553805N 0025111W - 552606N 0023655W - 551724N 0024532W - 551735N 0025427W - 545610N 0024159W - 544628N 0023625W - 542156N 0021546W following the line of latitude to - 542156N 0020653W - 541528N 0020852W - 540828N 0022515W - 535110N 0020348W - 533918N 0023900W - 534107N 0031910W - 543022N 0032659W - 543306N 0033033W - 550603N 0041419W - 552700N 0030000W - 553100N 0025156W - 553805N 0025111W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	118.780 124.500 124.825 126.300	Part of the following ATS Routes are incorporated within the CTA: L612, N57, N601, N864, P16, T256 & Y96.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
NORTHERN CTA 2 552606N 0023655W - 550637N 0013731W - 550218N 0014154W - 550101N 0012957W - 541152N 0014544W - 534312N 0011636W - 534134N 0010443W - 534117N 0010226W - 533109N 0010751W - 533059N 0010932W - 531938N 0011532W - 532012N 0011840W - 532109N 0012904W - 532227N 0014315W - 533650N 0015216W - 533713N 0014830W - 534726N 0015913W - 535110N 0020348W - 535539N 0020919W - 540828N 0022515W - 541528N 0020852W - 550049N 0015445W - 551724N 0024532W - 552606N 0023655W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	118.780 124.500 133.800	Part of the following ATS Routes are incorporated within the CTA: L60, L603, L975, M868, N601, P16, P17, P18, Y70, Y96 & Y250.
NORWICH CTA 1 524653N 0005826E - 524708N 0012946E - 524304N 0013754E thence clockwise by the arc of a circle radius 12.5 NM centred on 524034N 0011747E to 523541N 0013639E - 523537N 0012319E thence anti-clockwise by the arc of a circle radius 6 NM centred on 524034N 0011747E to 524536N 0012308E - 524530N 0011035E thence anti-clockwise by the arc of a circle radius 6 NM centred on 524033N 0011609E to 523531N 0011049E - 523815N 0005559E thence clockwise by the arc of a circle radius 12.5 NM centred on 524033N 0011609E to - 524653N 0005826E Upper limit: 4000 FT ALT Lower limit: 1500 FT ALT Class: D	NORWICH APP	NORWICH RADAR English As per AD Hours and by arrangement.	119.355 DOC 40 NM/25,000 FT.	CTA Chart published in AD-2 Section.
NORWICH CTA 2 523535N 0011921E - 523541N 0013639E - 523409N 0012916E - 523407N 0012448E - 523535N 0011921E Upper limit: 4000 FT ALT Lower limit: 2500 FT ALT Class: D	NORWICH APP	NORWICH RADAR English As per AD Hours and by arrangement.	119.355 DOC 40 NM/25,000 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
NORWICH CTA 3 523815N 0005559E - 523531N 0011049E - 523527N 0010311E - 523815N 0005559E Upper limit: 4000 FT ALT Lower limit: 2500 FT ALT Class: D	NORWICH APP	NORWICH RADAR English As per AD Hours and by arrangement.	119.355 DOC 40 NM/25,000 FT.	CTA Chart published in AD-2 Section.
PEPZE CTA 1 532345N 0031625W - 532336N 0031110W - 532309N 0031205W - 531427N 0030140W - 530626N 0024349W - 530314N 0024935W - 530209N 0025131W - 531018N 0031726W - 531733N 0031654W - 532345N 0031625W Upper limit: FL195 Lower limit: 3000 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Part of ATS Routes L15, L151, N38, N862, N864, P16, P17, Q36, Q38 and Z197 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PEPZE CTA 2 531733N 0031654W - 531018N 0031726W - 530348N 0031757W - 530540N 0032345W - 531733N 0031654W Upper limit: FL105 Lower limit: FL55 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English 2000-0700 (1900-0600)	128.055 (Notes 1 and 2)	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: Daily between 2000-0700 (1900-0600). Note 2: Usage only as directed by ATC.
	LIVERPOOL APP	LIVERPOOL RADAR English 2000-0700 (1900-0600)	119.855 (Notes 1 and 2)	
PEPZE CTA 3 531018N 0031726W - 530209N 0025131W - 525618N 0030157W - 525846N 0030145W - 525914N 0031817W - 530348N 0031757W - 531018N 0031726W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Part of ATS Routes L15, N38, N42, N862, N864, P16 and P17 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PEPZE CTA 4 525914N 0031817W - 525846N 0030145W - 525618N 0030157W - 525320N 0030212W - 525348N 0031841W - 525914N 0031817W Upper limit: FL195 Lower limit: FL65 Minimum limit: 5500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Part of ATS Routes N42, N864 and P16 are incorporated within the CTA. Minimum Flight Altitude 5500 FT. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
PEPZE CTA 5 525348N 0031841W - 525320N 0030212W - 524821N 0030236W - 524849N 0031904W - 525348N 0031841W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055 Traffic operating below FL 145.	Parts of ATS Routes N38, N864 and P16 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
	LONDON ACC	LONDON CONTROL English H24	133.600 Traffic operating FL 145 and above.	
PEPZE CTA 6 530314N 0024935W - 530006N 0024504W - 525334N 0024539W - 525046N 0024529W - 524852N 0024522W - 524748N 0024505W - 524821N 0030236W - 525320N 0030212W - 525618N 0030157W - 530209N 0025131W - 530314N 0024935W Upper limit: FL195 Lower limit: FL95 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Parts of ATS Routes L15, N38, N42, N58, N862 and P17 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PEPZE CTA 7 524849N 0031904W - 524821N 0030236W - 524256N 0030302W - 524325N 0032001W - 524429N 0031923W - 524849N 0031904W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	133.600 Traffic operating below FL 145.	Part of ATS Routes N38, N864 and P16 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055 Traffic operating FL 145 and above.	
PEPZE CTA 8 524821N 0030236W - 524748N 0024505W - 524220N 0024338W - 524256N 0030302W - 524821N 0030236W Upper limit: FL195 Lower limit: FL125 Class: A	LONDON ACC	LONDON CONTROL English H24	133.600 Traffic operating below FL 145.	Parts of ATS Routes N862 and P17 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055 Traffic operating FL 145 and above.	
PEPZE CTA 9 524325N 0032001W - 524220N 0024338W - 523651N 0024210W - 523639N 0024211W - 523752N 0032310W - 523810N 0032308W - 524325N 0032001W Upper limit: FL195 Lower limit: FL145 Class: A	LONDON ACC		133.600	Parts of ATS Routes N862, N864, P16 and P17 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
PEPZE CTA 10 523752N 0032310W - 523639N 0024211W - 523028N 0024244W - 523040N 0024916W - 520722N 0025115W - 520749N 0030551W - 520811N 0031848W - 522743N 0031721W - 522753N 0032353W - 523752N 0032310W Upper limit: FL195 Lower limit: FL155 Class: A	LONDON ACC	LONDON CONTROL English H24	133.600	Parts of ATS Routes N862, N864, P16, P17 and Y125 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PEPZE CTA 11 523040N 0024916W - 523028N 0024244W - 522029N 0024337W - 522042N 0025007W - 523040N 0024916W Upper limit: FL195 Lower limit: FL175 Class: A	LONDON ACC		133.600	Part of ATS Routes P17 and Y125 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PEPZE CTA 12 522753N 0032353W - 522743N 0031721W - 520811N 0031848W - 520822N 0032517W - 522753N 0032353W Upper limit: FL195 Lower limit: FL175 Class: A	LONDON ACC		133.600	Part of ATS Route P16 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
PEPZE CTA 13 520811N 0031848W - 520722N 0025115W - 520148N 0025143W - 520237N 0031916W - 520253N 0031912W - 520811N 0031848W Upper limit: FL195 Lower limit: FL145 Class: A	LONDON ACC	LONDON CONTROL English H24	133.600	Part of ATS Routes N862 and N864 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: The following two areas, within PEPZE CTAs 13 and 14 and Cotswold CTAs 11 and 17 between the CTAs base level and FL 195, and referred to as the OSSEP Gliding Areas, are notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and London ACC, Swanwick Mil and Cardiff ATC: MADLEY Box bounded by great circle lines joining: 520734N 0025744W - 520712N 0024624W - 515640N 0024718W - 515701N 0025836W - 520734N 0025744W. RAGLAN Box bounded by great circle lines joining: 515701N 0025836W - 515640N 0024718W - 515040N 0024748W - 515153N 0025901W - 515701N 0025836W. During periods of activation of these areas ATC will direct aircraft to remain clear of the active area.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
PEPZE CTA 14 520237N 0031916W - 520148N 0025143W - 515751N 0025203W - 515647N 0025125W - 515739N 0032029W - 520237N 0031916W Upper limit: FL195 Lower limit: FL145 Class: A	LONDON ACC	LONDON CONTROL English H24	133.600 (Note 1)	Part of ATS Routes N862, N864 and P69 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: The following two areas, within PEPZE CTAs 13 and 14 and Cotswold CTAs 11 and 17 between the CTAs base level and FL 195, and referred to as the OSSEP Gliding Areas, are notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and London ACC, Swanwick Mil and Cardiff ATC: MADLEY Box bounded by great circle lines joining: 520734N 0025744W - 520712N 0024624W - 515640N 0024718W - 515701N 0025836W - 520734N 0025744W. RAGLAN Box bounded by great circle lines joining: 515701N 0025836W - 515640N 0024718W - 515040N 0024748W - 515153N 0025901W - 515701N 0025836W. During periods of activation of these areas ATC will direct aircraft to remain clear of the active area. Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Approach.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855 (Note 1)	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
PORTSMOUTH CTA 1 504928N 0011714W - 504848N 0005214W - 504626N 0004942W - 503700N 0003938W - 504139N 0010236W - 504125N 0012315W - 504928N 0011714W Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	129.430 134.440	Parts of the following ATS Routes are incorporated within the CTA: L980, L982, M184, M185, N6, N17, and N867. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 2 504125N 0012315W - 504139N 0010236W - 503700N 0003938W following the line of latitude to - 503700N 0012620W - 504125N 0012315W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	129.430 134.440	Parts of the following ATS Routes are incorporated within the CTA: L980, L982, M184, M185, N6 and N867. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 3 503700N 0010211W following the line of latitude to - 503700N 0003938W - 501347N 0001511W - 500000N 0003155W following the line of latitude to - 500000N 0014700W - 500440N 0014420W - 503700N 0010211W Upper limit: FL195 Lower limit: FL125 Class: C	LONDON ACC	LONDON CONTROL English H24	127.830 134.440	Parts of the following ATS Routes are incorporated within the CTA: M184, M185, N6, N867, P83, P87 and P88. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 4 503700N 0012620W following the line of latitude to - 503700N 0010211W - 500440N 0014420W - 500000N 0014700W following the line of latitude to - 500000N 0015149W - 503700N 0012620W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	127.830 129.430	Parts of the following ATS Routes are incorporated within the CTA: L980, L982, P83, and Y110. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 5 503156N 0014700W - 502754N 0013240W - 500000N 0015149W following the line of latitude to - 500000N 0021015W - 500235N 0020659W - 503156N 0014700W Upper limit: FL195 Lower limit: FL55 Class: A	LONDON ACC	LONDON CONTROL English H24	127.830 129.430	Parts of the following ATS Routes are incorporated within the CTA: L980, Q41 and Y110. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
PORTSMOUTH CTA 6 510913N 0012355W - 510717N 0011218W - 510329N 0011312W - 510420N 0010657W - 505435N 0010335W - 504928N 0011714W - 504125N 0012315W - 503700N 0012620W - 502754N 0013240W - 503156N 0014700W - 504035N 0014102W - 504946N 0013439W - 505512N 0013047W - 505859N 0012811W - 510416N 0012559W - 510913N 0012355W Upper limit: FL195 Lower limit: FL55 Class: A	LONDON ACC	LONDON CONTROL English H24	120.230 127.830 129.080 129.430	Parts of the following ATS Routes are incorporated within the CTA: L620, N17, N514, N621, N866, P83, Q41 and Y8. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: During the notified hours of operation of Solent CTA the base changes to 5500 FT ALT.
PORTSMOUTH CTA 7 504012N 0021558W - 504035N 0014102W - 502333N 0015245W - 502628N 0020633W - 502839N 0020525W - 503146N 0022018W - 504012N 0021558W Upper limit: FL195 Lower limit: FL165 Class: A	LONDON ACC	LONDON CONTROL English H24	129.430	Parts of the following ATS Routes are incorporated within the CTA: N621 and N866. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 8 504959N 0023117W - 505012N 0021519W - 504311N 0021212W - 504946N 0013439W - 504441N 0013824W - 504035N 0014102W - 504012N 0021558W - 504000N 0023058W - 504959N 0023117W Upper limit: FL195 Lower limit: FL155 Class: A	LONDON ACC	LONDON CONTROL English H24	129.430	Parts of the following ATS Routes are incorporated within the CTA: L620, N17, N621 and N866. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 9 505248N 0021628W - 505532N 0020105W - 504554N 0015652W - 504311N 0021212W - 505248N 0021628W Upper limit: FL195 Lower limit: FL135 Class: A	LONDON ACC	LONDON CONTROL English H24	129.430	Parts of the following ATS Routes are incorporated within the CTA: L620 and N514. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
PORTSMOUTH CTA 10 510123N 0012711W - 505859N 0012811W - 505512N 0013047W - 504946N 0013439W - 504554N 0015652W - 505532N 0020105W - 505950N 0013614W - 510045N 0013053W - 510123N 0012711W Upper limit: FL195 Lower limit: FL95 Class: A	LONDON ACC	LONDON CONTROL English H24	120.230 129.430	Parts of the following ATS Routes are incorporated within the CTA: L620. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 11 511726N 0012843W - 511617N 0012057W - 510416N 0012559W - 510045N 0013053W - 505950N 0013614W - 510038N 0013541W - 511726N 0012843W Upper limit: FL115 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English 0630-0930 (0445-0830) and 1730-2130 (1630-2030).	120.230 129.080	Part of ATS Route Q41 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 12 512624N 0012933W - 512348N 0010822W - 510717N 0011218W - 510913N 0012355W - 511721N 0012030W - 512624N 0012933W Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	129.080 134.125 135.805	Parts of the following ATS Routes are incorporated within the CTA: L18, L607, N14, N859, P2, P72, P73, Q41, Y321. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 13 510045N 0013053W - 505334N 0014051W - 505950N 0013614W - 510045N 0013053W Upper limit: FL95 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English 0630-0930 (0445-0830) and 1730-2130 (1630-2030).	120.230 134.125	Part of ATS Route Q41 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 15 512624N 0012933W - 511721N 0012030W - 511617N 0012057W - 511726N 0012843W - 511837N 0012813W - 512624N 0012933W Upper limit: FL105 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English 0630-0930 (0445-0830) and 1730-2130 (1630-2030).	134.125	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
PORTSMOUTH CTA 16 512624N 0012933W - 511721N 0012030W - 511617N 0012057W - 511726N 0012843W - 511837N 0012813W - 512624N 0012933W Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	134.125 135.805	Part of ATS Routes L18 and P2 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
PORTSMOUTH CTA 17 510416N 0012559W - 510123N 0012711W - 510045N 0013053W - 510416N 0012559W Upper limit: FL115 Lower limit: FL55 Class: A	LONDON ACC	LONDON CONTROL English 0630-0930 (0445-0830) and 1730-2130 (1630-2030).	120.230 134.125	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: During the notified hours of operation of Solent CTA the base changes to 5500 FT ALT.
PORTSMOUTH CTA 18 510123N 0012711W - 505859N 0012811W - 505512N 0013047W - 505334N 0014051W - 510045N 0013053W - 510123N 0012711W Upper limit: FL95 Lower limit: FL55 Class: A	LONDON ACC	LONDON CONTROL English 0630-0930 (0445-0830) and 1730-2130 (1630-2030).	120.230 134.125	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: During the notified hours of operation of Solent CTA the base changes to 5500 FT ALT.
PRESTWICK CTA 1 554023N 0045040W - 553734N 0044227W thence anti-clockwise by the arc of a circle radius 8 NM centred on 553034N 0043540W to 552811N 0044906W - 553124N 0045830W thence clockwise by the arc of a circle radius 13 NM centred on 553034N 0043540W to - 554023N 0045040W Upper limit: 5500 FT ALT Lower limit: 1500 FT ALT Class: D	PRESTWICK APP	PRESTWICK RADAR English H24	124.630 As directed by ATC. 129.450 DOC 40 NM/19,500 FT.	CTA Chart published in AD-2 Section.
PRESTWICK CTA 2 553044N 0044945W - 552703N 0043902W - 552518N 0044044W - 552811N 0044906W thence clockwise by the arc of a circle radius 8 NM centred on 553034N 0043540W to - 553044N 0044945W Upper limit: 5500 FT ALT Lower limit: 2000 FT ALT Class: D	PRESTWICK APP	PRESTWICK RADAR English H24	124.630 As directed by ATC. 129.450 DOC 40 NM/19,500 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
PRESTWICK CTA 3 552703N 0043902W - 552150N 0042400W thence clockwise by the arc of a circle radius 11 NM centred on 553034N 0043540W to 552040N 0042722W - 552518N 0044044W - 552703N 0043902W Upper limit: 5500 FT ALT Lower limit: 3000 FT ALT Class: D	PRESTWICK APP	PRESTWICK RADAR English H24	124.630 As directed by ATC. 129.450 DOC 40 NM/19,500 FT.	CTA Chart published in AD-2 Section.
PRESTWICK CTA 4 552838N 0041639W - 552658N 0041154W thence clockwise by the arc of a circle radius 14 NM centred on 553034N 0043540W to 552010N 0041916W - 552150N 0042400W thence anti-clockwise by the arc of a circle radius 11 NM centred on 553034N 0043540W to - 552838N 0041639W Upper limit: 5500 FT ALT Lower limit: 3000 FT ALT Class: D	PRESTWICK APP	PRESTWICK RADAR English H24	124.630 As directed by ATC. 129.450 DOC 40 NM/19,500 FT.	CTA Chart published in AD-2 Section.
PRESTWICK CTA 5 553124N 0045830W - 552040N 0042722W - 551848N 0044702W - 553124N 0045830W Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	PRESTWICK APP	PRESTWICK RADAR English H24	124.630 As directed by ATC. 129.450 DOC 40 NM/19,500 FT.	CTA Chart published in AD-2 Section.
PRESTWICK CTA 6 552658N 0041154W - 552521N 0040716W thence clockwise by the arc of a circle radius 17 NM centred on 553034N 0043540W to 551710N 0041723W - 552040N 0042722W thence anti-clockwise by the arc of a circle radius 11 NM centred on 553034N 0043540W to 552150N 0042400W - 552010N 0041916W thence anti-clockwise by the arc of a circle radius 14 NM centred on 553034N 0043540W to - 552658N 0041154W Upper limit: 5500 FT ALT Lower limit: 4000 FT ALT Class: D	PRESTWICK APP	PRESTWICK RADAR English H24	124.630 As directed by ATC. 129.450 DOC 40 NM/19,500 FT.	CTA Chart published in AD-2 Section.
SEVERN CTA 1 512448N 0025147W - 512331N 0023410W - 511620N 0023328W - 511538N 0025120W - 511505N 0025335W - 512448N 0025147W Upper limit: FL165 Lower limit: FL105 Class: C	LONDON ACC	LONDON CONTROL English 2300-0600 (2200-0500).	134.755	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200)	125.855	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
SEVERN CTA 2 512608N 0031050W - 512448N 0025147W - 511505N 0025335W - 511010N 0031341W - 512608N 0031050W Upper limit: FL165 Lower limit: FL105 Class: C	LONDON ACC	LONDON CONTROL English 2300-0600 (2200-0500).	134.755	Part of ATS routes N92 and N862 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200).	125.855	
SOLENT CTA 1 510459N 0012017W - 510123N 0012722W - 510433N 0012536W thence clockwise by the arc of a circle radius 8 NM centred on 505701N 0012124W to - 510459N 0012017W Upper limit: 5500 FT ALT Lower limit: 1500 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SOLENT CTA 2 510459N 0012017W thence clockwise by the arc of a circle radius 8 NM centred on 505701N 0012124W to 510115N 0011039W - 504928N 0011714W - 504035N 0012350W - 504441N 0013824W - 504036N 0020254W thence clockwise by the arc of a circle radius 10 NM centred on 504648N 0015033W to 504926N 0020545W - 505512N 0013047W - 510123N 0012722W - 510459N 0012017W Upper limit: 5500 FT ALT Lower limit: 2000 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SOLENT CTA 3 510700N 0012146W thence clockwise by the arc of a circle radius 10 NM centred on 505701N 0012124W to 510340N 0010935W - 510115N 0011039W thence anti-clockwise by the arc of a circle radius 8 NM centred on 505701N 0012124W to 510433N 0012536W - 510700N 0012146W Upper limit: 5500 FT ALT Lower limit: 2000 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
SOLENT CTA 4 510433N 0012536W - 505512N 0013047W - 505334N 0014051W - 510433N 0012536W Upper limit: 5500 FT ALT Lower limit: 2500 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SOLENT CTA 5 510828N 0011928W - 510636N 0010817W - 510340N 0010935W thence anti-clockwise by the arc of a circle radius 10 NM centred on 505701N 0012124W to 510700N 0012146W - 510828N 0011928W Upper limit: 5500 FT ALT Lower limit: 2500 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SOLENT CTA 6 510636N 0010817W - 510420N 0010657W - 505435N 0010335W - 504928N 0011714W - 510115N 0011039W - 510636N 0010817W Upper limit: 5500 FT ALT Lower limit: 3000 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SOLENT CTA 7 504214N 0015313W - 504441N 0013824W - 503156N 0014700W - 504214N 0015313W Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SOLENT CTA 8 504441N 0013824W - 504035N 0012350W - 502754N 0013240W - 503156N 0014700W - 504441N 0013824W Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	SOUTHAMPTON APP	SOLENT RADAR English Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	120.230	When active the top level of the Solent CTA (5500 FT ALT) is entirely contiguous with the overlying en-route airspace structure. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
SOUTHEND CTA 1 513437N 0002440E - 514333N 0004429E - 514206N 0004521E - 513445N 0002903E thence anti-clockwise by the arc of a circle radius 7.5 NM centred on 513357N 0004100E to 512701N 0003630E - 512719N 0003955E - 513151N 0005000E - 513000N 0005000E - 512528N 0003956E - 512446N 0003202E - 512757N 0002721E - 513146N 0002401E - 513437N 0002440E Upper limit: 3500 FT ALT Lower limit: 1500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 3500 FT upwards. CTA Chart published in AD-2 Section.
SOUTHEND CTA 2 514333N 0004429E - 514420N 0004614E - 514440N 0005036E - 514431N 0005038E - 514138N 0005222E - 514312N 0004748E - 514206N 0004521E - 514333N 0004429E Upper limit: 4500 FT ALT Lower limit: 1500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 4500 FT upwards. CTA Chart published in AD-2 Section.
SOUTHEND CTA 3 514440N 0005036E - 514446N 0005158E thence clockwise by the arc of a circle radius 12 NM centred on 513428N 0004207E to 513504N 0010120E - 513000N 0005000E - 513151N 0005000E - 513528N 0005805E thence anti-clockwise by the arc of a circle radius 10 NM centred on 513428N 0004207E to 514057N 0005420E - 514138N 0005222E - 514431N 0005038E - 514440N 0005036E Upper limit: 5500 FT ALT Lower limit: 1500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 5500 FT upwards. CTA Chart published in AD-2 Section.
SOUTHEND CTA 4 513437N 0002440E - 513943N 0002551E - 514353N 0003508E - 514435N 0004406E - 514401N 0004412E - 514333N 0004429E - 513437N 0002440E Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 3500 FT upwards. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	**2**	**3**	**4**	**5**
SOUTHEND CTA 5 514435N 0004406E - 514506N 0004514E - 514530N 0005026E - 514440N 0005036E - 514420N 0004614E - 514333N 0004429E - 514401N 0004412E - 514435N 0004406E Upper limit: 4500 FT ALT Lower limit: 2500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 4500 FT upwards. CTA Chart published in AD-2 Section.
SOUTHEND CTA 6 514530N 0005026E - 514551N 0005510E thence clockwise by the arc of a circle radius 14 NM centred on 513428N 0004207E to 513653N 0010414E - 513535N 0010117E thence anti- clockwise by the arc of a circle radius 12 NM centred on 513428N 0004207E to 514446N 0005158E - 514440N 0005036E - 514530N 0005026E Upper limit: 5500 FT ALT Lower limit: 2500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 5500 FT upwards. CTA Chart published in AD-2 Section.
SOUTHEND CTA 7 512757N 0002721E - 512446N 0003202E - 512528N 0003956E - 513000N 0005000E - 512120N 0005000E - 512046N 0003338E - 512757N 0002721E Upper limit: 3500 FT ALT Lower limit: 2500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 3500 FT upwards. CTA Chart published in AD-2 Section.
SOUTHEND CTA 8 512829N 0005000E - 512555N 0005625E - 512124N 0005144E - 512120N 0005000E - 512829N 0005000E Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 5500 FT upwards. CTA Chart published in AD-2 Section.
SOUTHEND CTA 9 514506N 0004514E - 514716N 0005005E - 514530N 0005026E - 514506N 0004514E Upper limit: 4500 FT ALT Lower limit: 3500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	LTMA airspace 4500 FT upwards. CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
SOUTHEND CTA 10 514716N 0005005E - 515032N 0005922E - 515158N 0011450E - 514921N 0012014E - 514212N 0012127E - 513836N 0011744E - 513751N 0010627E - 513653N 0010414E thence anti-clockwise by the arc of a circle radius 14 NM centred on 513428N 0004207E to 514551N 0005510E - 514530N 0005026E - 514716N 0005005E Upper limit: 5500 FT ALT Lower limit: 3500 FT ALT Class: D	SOUTHEND APP	SOUTHEND APPROACH English H24	130.780 DOC 40 NM/10,000 FT.	CTA Chart published in AD-2 Section.
SOUTHERN CTA 523412N 0015410E - 522842N 0023414E - 522819N 0024644E - 513000N 0020000E - 510700N 0020000E - 510000N 0012800E - 504000N 0012800E - 500000N 0001500W following the line of latitude to - 500000N 0020000W - 495738N 0021420W - 495458N 0023011W - 501745N 0022725W - 503146N 0022018W - 503712N 0021731W - 503949N 0023058W - 504459N 0023107W - 504947N 0023317W - 510123N 0012711W - 511617N 0012057W - 511726N 0012843W - 511837N 0012813W - 512624N 0012933W - 512619N 0012850W - 513607N 0012547W - 513423N 0011138W - 514420N 0010041W - 515745N 0011126W - 520421N 0003712W - 520316N 0003441W - 521126N 0002220W - 522632N 0003702W - 522511N 0012817E - 523412N 0015410E Upper limit: FL245 Lower limit: FL195 Class: C	LONDON ACC	LONDON CONTROL English H24	118.480 121.030 121.230 127.105 127.955 128.430 129.430 130.925 132.165 132.605 133.940 134.905 135.055 135.425 135.805	Parts of the following ATS Routes are incorporated within the CTA: L6, L9, L10, L15, L18, L89, L151, L179, L607, L608, L610, L612, L613, L620, L980, L982, M8, M40, M84, M85, M87, M91, M183, M184, M185, M189, M195, M197, M604, M605, M733, N6, N14, N16, N17, N19, N20, N27, N57, N63, N84, N514, N601, N621, N859, N866, N867, P2, P7, P25, P44, P49, P72, P73, P83, P86, P87, P88, P137, P144, P155, P166, Q3, Q41, Q63, Q70, Q75, Q295, T71, T418, T420, T421, Y4, Y6, Y8, Y47, Y110, Y311, Y312, Y321, Y803 and Z171.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
STRANGFORD CTA 1 543542N 0051444W - 543230N 0051046W - 542209N 0044501W - 541645N 0045125W - 540805N 0044053W - 542534N 0052320W - 543542N 0051444W Upper limit: FL195 Lower limit: FL75 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: M146, M147, M148 and P620. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: During the notified hours of operation of the Isle of Man CTR/ CTA the lower limit of the portion of the CTA coincident with the Isle of Man CTR/CTA will be FL 105.
STRANGFORD CTA 2 544449N 0052608W - 543118N 0053734W - 542534N 0052320W - 543542N 0051444W - 544449N 0052608W Upper limit: FL195 Lower limit: 3500 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: M146, M147, M148, P6, P600 and P620. Airspace within CTA 2 (excluding AWY P600) is subject to airspace sharing agreements and ATS from Scottish ACC may not be available. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRANGFORD CTA 3 545715N 0051530W - 541100N 0055428W - 542634N 0061018W thence clockwise by the arc of a circle radius 13 NM centred on 543927N 0061257W to 545030N 0062442W - 545310N 0054701W - 545418N 0053000W - 545715N 0051530W Upper limit: FL195 Lower limit: FL105 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: L10, L15, L603, M147, M148, N34, P6 and P600. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRANGFORD CTA 4 542214N 0054509W - 541630N 0053058W - 540636N 0053913W - 541100N 0055428W - 542214N 0054509W Upper limit: FL195 Lower limit: FL55 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: L15, L603 and Q38. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
STRANGFORD CTA 5 541630N 0053058W - 540405N 0050040W - 540202N 0050543W - 540636N 0053913W - 541630N 0053058W Upper limit: FL195 Lower limit: FL75 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: L15, L603, P620 and Q38. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: During the notified hours of operation of the Isle of Man CTR/ CTA the lower limit of the portion of the CTA coincident with the Isle of Man CTR/CTA will be FL 105.
STRANGFORD CTA 6 543118N 0053734W - 542534N 0052320W - 540805N 0044053W - 535956N 0045043W - 541630N 0053058W - 542214N 0054509W - 543118N 0053734W Upper limit: FL195 Lower limit: FL45 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: L10, L15, L603, M146, P620, Q39 and Y911. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: During the notified hours of operation of the Isle of Man CTR/ CTA the lower limit of the portion of the CTA coincident with the Isle of Man CTR/CTA will be FL 105.
STRANGFORD CTA 7 542209N 0044501W - 541627N 0043100W - 540805N 0044053W - 541645N 0045125W - 542209N 0044501W Upper limit: FL195 Lower limit: FL135 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: M147 and M148. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRANGFORD CTA 8 540915N 0054823W - 540636N 0053913W - 540514N 0052901W - 535617N 0053627W - 540008N 0055552W - 540915N 0054823W Upper limit: FL195 Lower limit: FL95 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Part of the following ATS Route is incorporated within the CTA: P620. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
STRANGFORD CTA 9 541744N 0062349W - 541711N 0060044W - 541100N 0055428W - 540915N 0054823W - 540008N 0055552W - 540543N 0062435W - 541744N 0062349W Upper limit: FL195 Lower limit: FL75 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Parts of the following ATS Routes are incorporated within the CTA: P600, N34. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRANGFORD CTA 10 542755N 0062310W thence anti-clockwise by the arc of a circle radius 13 NM centred on 543927N 0061257W to 542634N 0061018W - 541711N 0060044W - 541744N 0062349W - 542755N 0062310W Upper limit: FL195 Lower limit: FL55 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Part of the following ATS Route is incorporated within the CTA: N34. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRANGFORD CTA 11 545040N 0050133W - 543138N 0050835W - 543230N 0051046W - 543912N 0051906W - 545040N 0050133W Upper limit: FL195 Lower limit: FL95 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Part of the following ATS Route is incorporated within the CTA: P620. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRANGFORD CTA 12 551214N 0050234W - 551002N 0044501W - 550251N 0045118W - 545120N 0050118W - 545040N 0050133W - 543912N 0051906W - 544449N 0052608W - 545715N 0051530W - 551214N 0050234W Upper limit: FL195 Lower limit: FL55 Minimum limit: 5000 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Part of the following ATS Routes are incorporated within the CTA: P600, P620 and UN57. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRANGFORD CTA 13 551002N 0044501W - 550806N 0043002W - 550251N 0045118W - 551002N 0044501W Upper limit: FL195 Lower limit: FL125 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	123.775	Part of the following ATS Route is incorporated within the CTA: UN57. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
STRUMBLE CTA 1 524418N 0053000W - 520401N 0045652W - 515517N 0035758W - 514412N 0040223W - 515254N 0051413W - 515341N 0053338W - 515234N 0060431W - 515144N 0062443W - 522000N 0053000W - 524418N 0053000W Upper limit: FL195 Lower limit: FL155 Class: A	LONDON ACC	LONDON CONTROL English H24	129.380	Parts of the following ATS Routes are incorporated within the CTA: L9, M17, N12, N18, N24, N30, N83, N546, P2, P70 and Q63. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRUMBLE CTA 2 515517N 0035758W - 515401N 0034944W - 514309N 0035406W - 514412N 0040223W - 515517N 0035758W Upper limit: FL195 Lower limit: FL145 Class: A	LONDON ACC	LONDON CONTROL English H24	129.380	Part of ATS Routes L9 and Q63 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
STRUMBLE CTA 3 515401N 0034944W - 515211N 0033709W - 514131N 0034129W - 514309N 0035406W - 515401N 0034944W Upper limit: FL195 Lower limit: FL125 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	129.380	Part of ATS Routes L9 and Q63 are incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
STRUMBLE CTA 4 515211N 0033709W - 515130N 0033151W - 515056N 0032207W - 514954N 0032323W - 514355N 0032348W - 513946N 0032432W - 514037N 0033429W - 514131N 0034129W - 515211N 0033709W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24 (Note 1)	129.380 134.755	Parts of the following ATS Routes are incorporated within the CTA: L9, L180, P4 and Q63. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. LONDON CONTROL: Note 1: 0600-2300 (0500-2200) above FL 165, 2300-0600 (2200-0500) (All Levels). CARDIFF RADAR: Note 1: Between 0600-2300 (0500-2200) FL 165 and below the provision of ATS is delegated to Cardiff Radar.
	CARDIFF APP	CARDIFF RADAR English 0600-2300 (0500-2200) (Note 1)	125.855	
SUMBURGH CTA 594309N 0005423W - 593219N 0011214W - 593329N 0013104W - 594202N 0014946W - 594620N 0014725W - 593839N 0013034W - 594309N 0005423W Upper limit: FL100 Lower limit: 1500 FT ALT Class: D	SUMBURGH	SUMBURGH RADAR English Coincident with TWR hours. See EGPB AD 2.18. (Note 1)	123.155 Standby frequency not continuously monitored. 131.300 Radar services for both Approach Radar and offshore sectors.	CTA Chart published in AD-2 Section. Note 1: Hours subject to change, consult the latest NOTAM.
TAY CTA 1 562146N 0034425W - 561555N 0032923W - 561400N 0033259W following the line of latitude to - 561400N 0040926W - 562000N 0034746W - 562146N 0034425W Upper limit: FL195 Lower limit: FL55 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is contained within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 2 562948N 0032900W - 562633N 0032207W - 562341N 0031445W - 562219N 0031721W - 561555N 0032923W - 562146N 0034425W - 562948N 0032900W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is contained within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
TAY CTA 3 561241N 0031943W - 561118N 0030159W - 560700N 0030304W following the line of latitude to - 560700N 0032107W - 561241N 0031943W Upper limit: FL195 Lower limit: FL65 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English Sat 0001 - Sun 2359.	124.500	Part of ATS Route N864 is contained within the CTA. Tay CTA 3 is notified for the purpose of SERA.6001(a) Classification of Airspace in accordance with the conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and Scottish ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 4 562341N 0031445W - 562228N 0025909W - 561118N 0030159W - 561241N 0031943W - 562219N 0031721W - 562341N 0031445W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English Sat 0001 - Sun 2359.	124.500	Part of ATS Route N864 is contained within the CTA. Tay CTA 4 is notified for the purpose of SERA.6001(a) Classification of Airspace in accordance with the conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and Scottish ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 5 563947N 0025440W - 562228N 0025909W - 562341N 0031445W - 563947N 0025440W Upper limit: FL195 Lower limit: FL105 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English Sat 0001 - Sun 2359.	124.500	Part of ATS Route N864 is contained within the CTA. Tay CTA 5 is notified for the purpose of SERA.6001(a) Classification of Airspace in accordance with the conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and Scottish ACC. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 6 564838N 0030536W - 564257N 0025041W - 562341N 0031445W - 562633N 0032207W - 562948N 0032900W - 564838N 0030536W Upper limit: FL195 Lower limit: FL105 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is contained within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
TAY CTA 7 565650N 0025515W - 565109N 0024016W - 564257N 0025041W - 564838N 0030536W - 565650N 0025515W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is contained within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 8 570015N 0025056W - 565433N 0023557W - 565109N 0024016W - 565650N 0025515W - 570015N 0025056W Upper limit: FL195 Lower limit: FL55 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is contained within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 9 572130N 0022334W - 571838N 0021602W - 571437N 0020959W - 565433N 0023557W - 570015N 0025056W - 572130N 0022334W Upper limit: FL195 Lower limit: FL115 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.500	Part of ATS Route P600 is contained within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 10 571940N 0020701W - 563050N 0014817W - 562848N 0020556W - 570627N 0022037W - 571437N 0020959W - 571838N 0021602W - 571940N 0020701W Upper limit: FL195 Lower limit: FL115 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Part of ATS Route P18 is contained within the CTA. Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 11 570417N 0014929W - 565044N 0015237W - 564809N 0021455W - 565507N 0021952W - 565533N 0020635W thence anti-clockwise by the arc of a circle radius 10 NM centred on 570531N 0020740W to - 570417N 0014929W Upper limit: FL115 Lower limit: 4500 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Part of ATS Route P18 is contained within the CTA. Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
TAY CTA 12 565044N 0015237W - 564530N 0015349W - 564036N 0015158W - 563833N 0020942W - 564326N 0021135W - 564809N 0021455W - 565044N 0015237W Upper limit: FL115 Lower limit: FL75 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Part of ATS Route P18 is contained within the CTA. Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TAY CTA 13 563050N 0014817W - 561343N 0014155W - 561143N 0015927W - 562848N 0020556W - 563050N 0014817W Upper limit: FL195 Lower limit: FL135 Class: D	SCOTTISH ACC	SCOTTISH CONTROL English See remarks for hours.	124.500	Part of ATS Route P18 is contained within the CTA. Conditional H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
TEESSIDE INTERNATIONAL CTA 1 543303N 0013347W thence anti-clockwise by the arc of a circle radius 5.3 NM centred on 543033N 0012546W to 542541N 0012211W - 542417N 0012449W thence clockwise by the arc of a circle radius 6.3 NM centred on 543033N 0012546W to 543138N 0013625W - 543303N 0013347W Upper limit: 6000 FT ALT Lower limit: 1200 FT ALT Class: D	TEESSIDE INTERNATIONAL APP	TEESSIDE RADAR English 0600-2200 (0500-2100); and by arrangement.	118.855 DOC 40 NM/15,000 FT.	CTA Chart published in AD-2 Section.
TEESSIDE INTERNATIONAL CTA 2 543138N 0013625W thence anti-clockwise by the arc of a circle radius 6.3 NM centred on 543033N 0012546W to 542417N 0012449W - 542251N 0013100W thence clockwise by the arc of a circle radius 8.3 NM centred on 543033N 0012546W to 542945N 0013956W - 543138N 0013625W Upper limit: 6000 FT ALT Lower limit: 1500 FT ALT Class: D	TEESSIDE INTERNATIONAL APP	TEESSIDE RADAR English 0600-2200 (0500-2100); and by arrangement.	118.855 DOC 40 NM/15,000 FT.	CTA Chart published in AD-2 Section.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
TEESSIDE INTERNATIONAL CTA 3 544219N 0011621W thence clockwise by the arc of a circle radius 13 NM centred on 543033N 0012546W to 543456N 0010446W - 543328N 0010734W thence anti-clockwise by the arc of a circle radius 11 NM centred on 543033N 0012546W to 544050N 0011909W - 544219N 0011621W Upper limit: 6000 FT ALT Lower limit: 3000 FT ALT Class: D	TEESSIDE INTERNATIONAL APP	TEESSIDE RADAR English 0600-2200 (0500-2100); and by arrangement.	118.855 DOC 40 NM/15,000 FT.	CTA Chart published in AD-2 Section.
UPPER AIRSPACE CTA 610000N 0100000W following the line of latitude to - 610000N 0000000E - 600000N 0000000E - 570000N 0050000E - 550000N 0050000E - 523000N 0024800E - 513000N 0020000E - 510700N 0020000E - 510000N 0012800E - 504000N 0012800E - 500000N 0001500W following the line of latitude to - 500000N 0020000W - 485000N 0080000W - 510000N 0080000W - 522000N 0053000W - 535500N 0053000W - 542500N 0081000W - 552000N 0065500W - 552500N 0072000W - 552000N 0081500W - 544500N 0090000W - 543400N 0100000W - 610000N 0100000W Upper limit: FL660 Lower limit: FL245 Class: C	LONDON ACC	LONDON CONTROL English H24	126.080 Off-route traffic. (Note 1)	The area contains a network of Upper ATS Routes. A large part of the Upper Airspace CTA is covered by a Military Mandatory Radar Service Area (MRSA) within which military aircraft flying between FL 245 and FL 660 are required to operate under a radar control/procedural control service. Note 1: That area of the London UIR to the west of L151 and south of UL975. Note 2: That area of the London UIR to the east of UN601, north of L620 and south of UL975/Y70, and that area to the north of UL975. Frequencies as per the London FIR. Frequencies as per the Scottish FIR.
			126.780 Off-route traffic. (Note 2)	
			132.860 Off-route traffic. (Note 2)	
			134.250 Off-route traffic. (Note 2)	
			136.200 Off-route traffic. (Note 2)	
	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.680 Off-route traffic.	
			135.530 Off-route traffic.	
WASH CTA 1 534117N 0010226W - 533619N 0004448W - 533225N 0003106W - 532830N 0001732W - 532204N 0000431E - 531717N 0000155E - 531222N 0000029E - 531232N 0000107W - 530618N 0000428W - 531101N 0002908W - 531343N 0004324W - 531938N 0011532W - 533059N 0010932W - 533109N 0010751W - 534117N 0010226W Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	Parts of the following ATS Routes are incorporated within the CTA: L60, L603 and Y70.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
WEST CTA 524418N 0053000W - 520408N 0045658W - 515310N 0032643W - 515554N 0032610W - 515749N 0032602W - 515640N 0024718W - 515351N 0023017W - 514707N 0020509W - 514457N 0015035W - 514412N 0014010W - 513945N 0012646W - 513911N 0012629W - 513640N 0013011W - 513607N 0012547W - 512619N 0012850W - 512624N 0012933W - 511837N 0012813W - 511726N 0012843W - 511859N 0013913W - 512250N 0023406W - 512331N 0023410W - 512448N 0025147W - 511505N 0025335W - 511010N 0031341W - 504123N 0031845W - 504947N 0023317W - 504459N 0023107W - 503949N 0023058W - 503712N 0021731W - 503146N 0022018W - 501745N 0022725W - 495458N 0023011W - 494801N 0031025W - 501648N 0033332W following the line of latitude to - 501648N 0034450W - 502459N 0034351W - 513937N 0032926W - 514039N 0033449W - 515254N 0051413W - 515341N 0053338W - 515234N 0060431W - 520049N 0060720W - 522000N 0053000W - 524418N 0053000W Upper limit: FL245 Lower limit: FL195 Class: C	LONDON ACC	LONDON CONTROL English H24	126.080 129.380 134.755	Parts of the following ATS Routes are incorporated within the CTA: L9, L18, L22, L149, L179, L180, L607, L620, M17, N12, N14, N17, N18, N21, N22, N24, N30, N40, N80, N83, N90, N91, N92, N546, N862, N864, P2, P4, P16, P17, P69, P70, P73, P86 and Q63.
WORTHING CTA 1 512247N 0011549E - 512130N 0012140E - 512106N 0013052E - 512053N 0013611E - 511826N 0013519E - 511929N 0013040E - 511422N 0013004E - 510600N 0014138E - 510354N 0014545E - 510000N 0012800E - 505842N 0010227E - 512247N 0011549E Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	134.125 (Note 1) 134.905 (Note 1)	Parts of the following ATS Routes are incorporated within Worthing CTA 1: L6, L9, L10, L18, L613, M84, M189, N57, Q70, Y311 and Y312. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: GAT inbound/outbound LTMA and/or overflying Worthing CTA 1.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
WORTHING CTA 2 504000N 0002220W following the line of latitude to - 504000N 0003000E - 504507N 0004500E - 505842N 0010227E - 510000N 0012800E - 504000N 0012800E - 500320N 0000639W - 501027N 0001143W - 501347N 0001511W - 501717N 0001053W - 502605N 0000746W - 504000N 0002220W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	134.125 (Note 1) 135.055 (Note 1)	Parts of the following ATS Routes are incorporated within Worthing CTA 2: L151, L612, L613, M8, M91, M189, M605, M733, N20, N57, N859, T420, T421, Y8 and Y47. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1:GAT inbound/outbound LTMA and/or overflying Worthing CTA 2.
WORTHING CTA 3 511929N 0013040E - 511251N 0020000E - 510700N 0020000E - 510354N 0014545E - 510600N 0014138E - 511422N 0013004E - 511929N 0013040E Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	133.180 (Note 1) 135.055 (Note 1)	Parts of the following ATS Routes are incorporated within Worthing CTA 3: L9, L18, M84 and Q70. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1:GAT inbound/outbound LTMA and/or overflying Worthing CTA 3.
WORTHING CTA 4 503606N 0003840W - 504012N 0002904W - 504132N 0002357W - 502605N 0000746W - 501717N 0001053W - 501347N 0001511W - 503606N 0003840W Upper limit: FL195 Lower limit: FL85 Class: A	LONDON ACC	LONDON CONTROL English H24	133.180 (Note 1) 135.055 (Note 1)	Parts of the following ATS Routes are incorporated within Worthing CTA 4: L151, N20 and N859. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: GAT inbound/outbound LTMA and/or overflying Worthing CTA 4.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
WORTHING CTA 5 512053N 0013611E - 511948N 0020000E - 511251N 0020000E - 511826N 0013519E - 512053N 0013611E Upper limit: FL195 Lower limit: FL105 Class: A	LONDON ACC	LONDON CONTROL English H24	133.180 (Note 1) 134.905 (Note 1)	Parts of the following ATS Routes are incorporated within Worthing CTA 5: L18, M84 and Q70. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: GAT inbound/outbound LTMA and/or overflying Worthing CTA 5.
WORTHING CTA 6 500000N 0003155W - 501347N 0001511W - 501027N 0001143W - 500320N 0000639W - 500000N 0001500W - 500000N 0003155W Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	135.055 (Note 1)	Part of ATS Route M189 is incorporated within Worthing CTA 6. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: GAT inbound/outbound LTMA and/or overflying Worthing CTA 6.
WORTHING CTA 7 504626N 0004942W - 504626N 0002908W - 504132N 0002357W - 504012N 0002904W - 503606N 0003840W - 503700N 0003938W - 504626N 0004942W Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	133.180 (Note 1) 135.055 (Note 1) 135.805 (Note 1)	Parts of the following ATS Routes are incorporated within Worthing CTA 7: M185, N6 and N859. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: GAT inbound/outbound LTMA and/or overflying Worthing CTA 7.
YORKSHIRE CTA 1 535539N 0020919W - 535110N 0020348W - 534127N 0023240W - 534529N 0023244W - 535539N 0020919W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Parts of the following ATS Routes are incorporated within the CTA: N57, N601 & P16. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
YORKSHIRE CTA 2 540342N 0021918W - 535539N 0020919W - 534529N 0023244W - 535734N 0023258W - 535747N 0023258W - 540342N 0021918W Upper limit: FL195 Lower limit: FL55 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Parts of the following ATS Routes are incorporated within the CTA: N57, N601 & P16. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
YORKSHIRE CTA 3 540828N 0022515W - 540342N 0021918W - 535747N 0023258W - 540234N 0023858W - 540828N 0022515W Upper limit: FL195 Lower limit: FL75 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Part of ATS Route N57 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
YORKSHIRE CTA 4 543356N 0023451W - 541110N 0021856W - 540234N 0023858W - 541042N 0024912W - 543356N 0031901W following the line of latitude to - 543356N 0023451W Upper limit: FL195 Lower limit: FL125 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.825 (Note 1) 126.300 (Note 1) 135.715 (Note 1)	Parts of the following ATS Routes are incorporated within the CTA: L612, N57 & N601. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: Freq: 124.825/126.300 (North of 5415N); Freq: 135.715 (South of 5415N).
YORKSHIRE CTA 5 535734N 0023258W - 534529N 0023244W - 534127N 0023240W - 533918N 0023900W - 535329N 0024913W - 535734N 0023258W Upper limit: FL195 Lower limit: FL65 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Part of ATS Route L612 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
YORKSHIRE CTA 6 540234N 0023858W - 535747N 0023258W - 535734N 0023258W - 535329N 0024913W - 535859N 0025312W - 540234N 0023858W Upper limit: FL195 Lower limit: FL95 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Part of ATS Route L612 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
YORKSHIRE CTA 7 543356N 0031901W - 541042N 0024912W - 540234N 0023858W - 535859N 0025312W - 543356N 0031901W Upper limit: FL195 Lower limit: FL145 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	124.825 (Note 1) 126.300 (Note 1) 135.715 (Note 1)	Part of ATS Route L612 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: Freq: 124.825/126.300 (North of 5415N); Freq: 135.715 (South of 5415N).
YORKSHIRE CTA 8 541110N 0021856W - 540236N 0014900W - 535539N 0020919W - 540828N 0022515W - 541110N 0021856W Upper limit: FL195 Lower limit: FL95 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Parts of the following ATS Routes are incorporated within the CTA: N601, P16, P17 & P18. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
YORKSHIRE CTA 9 540236N 0014900W - 535955N 0014027W - 535348N 0013100W - 534007N 0011937W - 533713N 0014830W - 534726N 0015913W - 535539N 0020919W - 540236N 0014900W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Parts of the following ATS Routes are incorporated within the CTA: P17, P18, Y70 & Y250. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
YORKSHIRE CTA 10 550334N 0015352W - 550218N 0014154W - 550101N 0012957W - 541152N 0014544W - 534312N 0011636W - 534134N 0010443W - 534007N 0011937W - 535348N 0013100W - 535955N 0014027W - 540236N 0014900W - 541110N 0021856W - 541528N 0020852W - 550334N 0015352W Upper limit: FL195 Lower limit: FL125 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	Parts of the following ATS Routes are incorporated within the CTA: P16, P17, P18 & Y250. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. L975 Crossing Area An area of Class A controlled airspace bounded by straight lines joining: 533835N 0013503W - 534007N 0011937W - 534626.98N 0011937.00W - 534308.41N 0011615.09W - 534127.82N 0010357.97W - 533059N 0010932W - 532845N 0013215W - 533835N 0013503W, from CTA base to an upper limit of FL 120, occasionally to FL 190 on request; is notified for the purposes SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish ACC.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
YORKSHIRE CTA 11 534140N 0010347W - 534117N 0010226W - 533109N 0010751W - 533038N 0011307W - 534030N 0011550W - 534140N 0010347W Upper limit: FL195 Lower limit: FL65 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800 (Note 1) 135.715 (Note 1)	Part of the following ATS Routes are incorporated with the CTA: L975 & Y70. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. L975 Crossing Area An area of Class A controlled airspace bounded by straight lines joining: 533835N 0013503W - 534007N 0011937W - 534626.98N 0011937.00W - 534308.41N 0011615.09W - 534127.82N 0010357.97W - 533059N 0010932W - 532845N 0013215W - 533835N 0013503W, from CTA base to an upper limit of FL 120, occasionally to FL 190 on request; is notified for the purposes SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish ACC. Note 1: Freq: 133.800 (above FL 135); Freq: 135.715 (FL 135 and below).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
YORKSHIRE CTA 12 534030N 0011550W - 533038N 0011307W - 532845N 0013215W - 533835N 0013503W - 534030N 0011550W Upper limit: FL195 Lower limit: FL55 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800 (Note 1) 135.715 (Note 1)	Part of the following ATS Routes are incorporated with the CTA: L975, Y70 & Y250. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. L975 Crossing Area An area of Class A controlled airspace bounded by straight lines joining: 533835N 0013503W - 534007N 0011937W - 534626.98N 0011937.00W - 534308.41N 0011615.09W - 534127.82N 0010357.97W - 533059N 0010932W - 532845N 0013215W - 533835N 0013503W, from CTA base to an upper limit of FL120, occasionally to FL190 on request; is notified for the purposes SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish ACC. Note 1: Freq: 133.800 (above FL 135); Freq: 135.715 (FL 135 and below).
YORKSHIRE CTA 13 533835N 0013503W - 532845N 0013215W - 532719N 0014617W - 533650N 0015216W - 533835N 0013503W Upper limit: FL195 Lower limit: 3500 FT ALT Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	135.715	Part of the following ATS Routes are incorporated within the CTA: L603 & L975. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
YORKSHIRE CTA 14 533059N 0010932W - 531938N 0011532W - 532012N 0011840W - 532109N 0012904W - 532227N 0014315W - 532719N 0014617W - 533059N 0010932W Upper limit: FL195 Lower limit: FL85 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800 (Note 1) 135.715 (Note 1)	Part of the following ATS Routes are incorporated within the CTA: L60, L603, M868 & Y250. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Camphill Box The portion of airspace formed by joining positions: 532719N 0014617W - 533017N 0011641W - 531938N 0011532W - 532012N 0011840W - 532110N 0012901W - 532002.91N 0013042.10W - 531418.31N 0012448.84W - 531137N 0013631W - 532719N 0014617W from CTA base level to an upper limit of FL 100, occasionally to FL 190 on request is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish ACC. Note 1: Freq: 133.800 (above FL 135); Freq: 135.715 (FL 135 and below).
YORKSHIRE CTA 15 541638N 0023531W - 540828N 0022515W - 540234N 0023858W - 541042N 0024912W - 541638N 0023531W Upper limit: FL125 Lower limit: FL75 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English 2000-0700 (1900-0600)	124.825 (Note 1) 126.300 (Note 1) 135.715 (Note 1)	Part of ATS Route N57 is incorporated within the CTA. 2000-0700 (1900-0600) only. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: Freq: 124.825/126.300 (North of 5415N); Freq: 135.715 (South of 5415N).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
YORKSHIRE CTA 16 543356N 0023451W - 541110N 0021856W - 540828N 0022515W - 541638N 0023531W - 541042N 0024912W - 543356N 0031901W - 543356N 0023451W Upper limit: FL125 Lower limit: FL95 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English 2000-0700 (1900-0600)	124.825 (Note 1) 126.300 (Note 1) 135.715 (Note 1)	Part of the following ATS Routes are incorporated within the CTA: N57 & N601. 2000-0700 (1900-0600) only. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note 1: Freq: 124.825/126.300 (North of 5415N) Freq: 135.715 (South of 5415N).
YORKSHIRE CTA 17 543406N 0020308W - 543135N 0013929W - 542344N 0014159W - 542615N 0020534W - 543406N 0020308W Upper limit: FL125 Lower limit: FL105 Class: D	NEWCASTLE APP	NEWCASTLE RADAR English See remarks.	124.380 125.830	Part of ATS Route P18 is incorporated within the CTA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. ATS Provision is delegated to Newcastle Radar during their hours of operation.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	133.800	
BELFAST TMA 1 545310N 0054701W - 544632N 0053024W - 542422N 0055701W - 542130N 0060507W - 542634N 0061018W thence clockwise by the arc of a circle radius 13 NM centred on 543927N 0061257W to 545030N 0062442W - 545310N 0054701W Upper limit: FL105 Lower limit: 700 FT AGL Class: D	BELFAST ALDERGROVE APP	ALDERGROVE RADAR English H24	133.125	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. FL 105 / 2000 FT ALT * : Class D (* Or 700 FT AGL, whichever is higher) (But excluding the Belfast CTR) (See EGAA AD 2.17)
BELFAST TMA 2 545310N 0054701W - 545418N 0053000W - 545715N 0051530W - 541100N 0055428W - 542130N 0060507W - 542422N 0055701W - 544632N 0053024W - 545310N 0054701W Upper limit: FL105 Lower limit: 3500 FT ALT Class: D	BELFAST ALDERGROVE APP	ALDERGROVE RADAR English H24	133.125	To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
CHANNEL ISLANDS TMA NORTH 500000N 0020000W - 494802N 0031023W - 500000N 0032000W following the line of latitude to - 500000N 0020000W Upper limit: FL195 Lower limit: FL80 Class: A	JERSEY APP	JERSEY CONTROL English 0545-2100 (0445-2030); and by arrangement.	120.450 (Note 1) 125.205	Note 1: To be used in event of failure of communications on 125.205 MHz.
CHANNEL ISLANDS TMA SOUTH 500000N 0020000W following the line of latitude to - 500000N 0014700W - 494400N 0020000W - 493000N 0020000W - 490200N 0014000W following the line of latitude to - 490200N 0030000W - 493500N 0030000W - 494802N 0031023W - 500000N 0020000W Upper limit: FL195 Lower limit: FL80 Class: A	JERSEY APP	JERSEY CONTROL English 0545-2100 (0445-2030); and by arrangement.	120.450 (Note 1) 125.205	Note 1: To be used in event of failure of communications on 125.205 MHz. Note 2: Portions of the Channel Island TMA (South) may be temporarily established by NOTAM as Class D airspace by Jersey ATC to facilitate skydiving or air display activities.
LONDON TMA 1 513451N 0005516W - 513515N 0004901W - 513632N 0004606W - 514226N 0004110W - 514409N 0004005W - 514830N 0001506W - 515102N 0000030W - 515146N 0000006W - 515155N 0000120E thence anti-clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to 514508N 0001309E - 514556N 0002309E - 513908N 0001416E - 513430N 0002136E - 512046N 0003338E - 511621N 0003054E - 511217N 0002018E - 510002N 0001541E - 505900N 0001333E - 505541N 0001007W - 505832N 0003428W - 510832N 0004055W - 511014N 0003325W - 512035N 0003959W - 512103N 0004236W thence clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 512112N 0004247W - 512108N 0004300W - 512335N 0005516W - 513451N 0005516W Upper limit: FL195 Lower limit: 2500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	118.825 119.780 120.530 121.280 As directed. 123.905 As directed. 127.955 128.430 128.480 As directed. 129.280 129.430 133.180 133.975 As directed. 134.125 135.055 135.805	Parts of the following ATS Routes are incorporated within London TMA 1: L9, L10, L15, L18, L89, L151, L179, L607, L610, L612, L980, M40, M84, M184, M185, M197, M605, M733, N16, N27, N57, N63, N601, P2, P72, Q3, Q63, Q70, Q295, T418, T420, T421, Y47 and Y803. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
LONDON TMA 3 520608N 0001350E - 520606N 0002550E - 520226N 0004040E - 514401N 0004412E - 513417N 0005000E - 512120N 0005000E - 510906N 0004618E - 510051N 0002141E - 510426N 0001721E - 511217N 0002018E - 511621N 0003054E - 512046N 0003338E - 513430N 0002136E - 513908N 0001416E - 514556N 0002309E - 514508N 0001309E thence clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to 515155N 0000120E - 515146N 0000006W - 515102N 0000030W - 514830N 0001506W - 514409N 0004005W - 514226N 0004110W - 513632N 0004606W - 513515N 0004901W - 514021N 0004916W - 514542N 0005550W - 515021N 0002931W - 515743N 0002145W - 520300N 0000907E - 520608N 0001350E Upper limit: FL195 Lower limit: 3500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	118.825 119.780 120.530 121.230 121.280 As directed. 123.905 As directed. 127.955 129.280 129.430 As directed. 129.605 As directed.	Parts of the following ATS Routes are incorporated within LTMA 3: L6, L9, L10, L15, L18, L179, L608, L610, L980, M40, M84, M87, M91, M183, M184, M197, M604, N16, N27, N84, N57, N601, P2, P44, P144, Q3, Q63, Q70, Q75, Q295, T418, T420, T421, Y311 and Y312. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 4 512430N 0010000W - 513433N 0010000W - 513451N 0005516W - 512335N 0005516W - 512108N 0004300W - 512112N 0004247W thence anti-clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 512103N 0004236W - 512035N 0003959W - 511014N 0003325W - 510832N 0004055W - 505832N 0003428W - 505739N 0004104W - 505728N 0004224W - 510652N 0004829W - 511035N 0005054W - 511705N 0005508W - 512430N 0010000W Upper limit: FL195 Lower limit: 3500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	119.780 129.280 133.180 134.125 135.805	Parts of the following ATS Routes are incorporated within LTMA 4: L9, L18, L89, L151, L179, L607, L612, L620, L980, M184, M185, M197, M605, N63, P2, P72, Q70, Q295, T421 and Y803. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDON TMA 5 513451N 0005516W - 514457N 0010000W - 514542N 0005550W - 514021N 0004916W - 513515N 0004901W - 513451N 0005516W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	119.780 135.805	Parts of the following ATS Routes are incorporated within LTMA 5: M605, N27, N84 and Q295. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 6 520606N 0001712W - 520608N 0001350E - 520300N 0000907E - 515743N 0002145W - 520038N 0002832W - 520606N 0001712W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	119.780 121.230 129.280 129.430 As directed. 130.925	Parts of the following ATS Routes are incorporated within LTMA 6: L608, N57 and N601. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 7 514401N 0004412E - 520226N 0004040E - 520045N 0004724E - 514431N 0005038E - 513618N 0005532E - 513417N 0005000E - 514401N 0004412E Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	118.825 121.230 123.905 As directed. 124.930 As directed. 129.280 129.605 As directed. 135.425	Parts of the following ATS Routes are incorporated within LTMA 7: L179, L608, L610, L620, L980, M40, M84, M183, M189, M197, M604, P44 and Q295. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDON TMA 8 520045N 0004724E - 515548N 0010705E - 515904N 0012302E - 515222N 0012635E - 513905N 0012500E - 512247N 0011549E - 505842N 0010227E - 504507N 0004500E - 504000N 0003000E following the line of latitude to - 504000N 0002220W - 505500N 0003814W following the line of latitude to - 505500N 0002256W - 505429N 0002115W - 505157N 0000418W - 510906N 0004618E - 512120N 0005000E - 512829N 0005000E - 513417N 0005000E - 513618N 0005532E - 514431N 0005038E - 520045N 0004724E Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	120.180 120.530 121.230 124.930 As directed. 129.605 As directed. 133.180 135.325 135.425 135.805	Parts of the following ATS Routes are incorporated within LTMA 8: L6, L9, L10, L18, L151, L179, L608, L610, L612, L613, L620, L980, M40, M84, M85, M87, M91, M189, M197, M604, M605, M733, N57, P2, P44, Q63, Q70, Q295, T420, T421, Y8, Y47, Y311, Y312 and Y803. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 9 521104N 0002159W - 521104N 0000528E - 520606N 0002550E - 520606N 0001712W - 521104N 0002159W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	121.230 124.930 As directed. 129.280 130.925	Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 10 514457N 0010000W - 513451N 0005516W - 513433N 0010000W - 513302N 0010000W - 513423N 0011138W - 514457N 0010000W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	119.780 121.030 As directed. 130.925 133.180 135.805	Parts of the following ATS Routes are incorporated within LTMA 10: L151, L612, M183, N27, N84, Q41, Q70 and T71. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDON TMA 11 513423N 0011138W - 513302N 0010000W - 512430N 0010000W - 511705N 0005508W thence anti-clockwise by the arc of a circle radius 4.7168 NM centred on 511256N 0005136W to 511535N 0005748W - 511956N 0010918W - 512348N 0010822W - 512435N 0011444W - 513423N 0011138W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	129.080 133.180 134.125 135.805	Parts of the following ATS Routes are incorporated within LTMA 11: L9, L151, L179, L607, M183, M197, N27, N621, N859, P72, Q41, Q63, Q295, T71, T421 and Y321. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 13 511956N 0010918W - 511535N 0005748W thence clockwise by the arc of a circle radius 4.7168 NM centred on 511256N 0005136W to 511705N 0005508W - 510652N 0004829W - 510602N 0005439W - 505616N 0005119W - 505512N 0005908W - 505119N 0005457W - 504848N 0005214W - 504928N 0011714W - 505435N 0010335W - 510420N 0010657W - 510329N 0011312W - 511956N 0010918W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	120.530	Parts of the following ATS Routes are incorporated within LTMA 13: L18, L89, L620, L980, M184, N14, N16, N63, N514, N621, N859, N866, N867, P2, T71 and Y8. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 14 505739N 0004104W - 505832N 0003428W - 505500N 0002256W - 505500N 0003814W - 505739N 0004104W Upper limit: FL195 Lower limit: 5000 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	133.180 135.055 135.805	Parts of the following ATS Routes are incorporated within LTMA 14: L151, L612, M185 and N16. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
LONDON TMA 16 520548N 0002701E - 520713N 0005149E - 520024N 0004848E - 520548N 0002701E Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	118.825 121.230 123.905 As directed. 129.280 129.430 As directed.	Part of ATS Route M183 is incorporated within LTMA 16. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 17 520024N 0004848E - 520713N 0005149E - 515806N 0005800E - 520024N 0004848E Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	118.825 121.230 123.905 As directed. 129.280 129.430 As directed.	Part of ATS Route M183 is incorporated within LTMA 17. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 18 520548N 0002701E - 521104N 0000528E - 521104N 0003242E - 521221N 0004819E - 520713N 0005149E - 520548N 0002701E Upper limit: FL195 Lower limit: FL75 Class: A	LONDON ACC	LONDON CONTROL English H24	118.825 121.230 123.905 As directed. 129.280 129.430 As directed.	Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
LONDON TMA 19 515745N 0011126W - 520421N 0003712W - 520316N 0003441W - 521126N 0002220W - 520606N 0001712W - 520038N 0002832W - 515743N 0002145W - 515021N 0002931W - 514457N 0010000W - 514420N 0010041W - 515745N 0011126W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	119.780 121.030 As directed. 121.280 As directed. 130.925	Parts of the following ATS Routes are incorporated within LTMA 19: L10, L15, L608, M183, M605, N57, N601, P86, Q41, Q75, T418 and T420. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 20 510426N 0001721E - 510051N 0002141E - 505157N 0000418W - 505429N 0002115W - 505832N 0003428W - 505541N 0001007W - 505900N 0001333E - 510002N 0001541E - 510426N 0001721E Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	120.530 128.430 133.180 135.055 135.805	Parts of the following ATS Routes are incorporated within LTMA 20: L18, L612, M605, M733, N16, Y47 and Y803. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 21 505739N 0004104W - 504626N 0002908W - 504626N 0004942W - 504848N 0005214W - 505119N 0005457W - 505512N 0005908W - 505616N 0005119W - 505728N 0004224W - 505739N 0004104W Upper limit: FL195 Lower limit: FL65 Class: A	LONDON ACC	LONDON CONTROL English H24	133.180 134.440 135.055 135.805	Parts of the following ATS Routes are incorporated within LTMA 21: L980, L982, M184, M185, N6, N16, N17, N20, N859 and Y8. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
LONDON TMA 23 513607N 0012547W - 513423N 0011138W - 512435N 0011444W - 512619N 0012850W - 513607N 0012547W Upper limit: FL195 Lower limit: 5500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	129.080 134.125 134.755 135.805	Parts of the following ATS Routes are incorporated within LTMA 23: L9, L179, L607, N14, N859, P73, T421, Q63 and Y321. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
LONDON TMA 24 510652N 0004829W - 505728N 0004224W - 505616N 0005119W - 510602N 0005439W - 510652N 0004829W Upper limit: FL195 Lower limit: 4500 FT ALT Class: A	LONDON ACC	LONDON CONTROL English H24	133.180 135.805	Parts of the following ATS Routes are incorporated within LTMA 24: L620, L980, M184, N63 and N859. Frequencies purpose: GAT inbound/ outbound to/from and/or overflying the LTMA. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Note: Service on one or more of these frequencies may be withdrawn by ATC approximately during the hours 2100-0630 (2000-0530).
MANCHESTER TMA 1 535110N 0020348W - 534726N 0015913W - 533713N 0014830W - 533650N 0015216W - 532719N 0014617W - 532656N 0015000W - 530732N 0020056W - 530602N 0022246W - 530626N 0024349W - 531427N 0030140W - 532309N 0031205W - 532734N 0030310W - 533213N 0031406W - 533223N 0025907W - 535110N 0020348W Upper limit: FL195 Lower limit: 3500 FT ALT Class: A Upper limit: FL245 Lower limit: FL195 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055 133.800 134.430 135.715	Parts of the following ATS Routes are incorporated within the TMA: L8, L10, L28, L70, L151, L603, L612 L975, M605, N57, N601, N862, N864, P16, P17, P18, Q4, Y53, Y70, Y124 & Z197. Inbound traffic operating at or cleared to a level FL 85 or below is likely to be in communication Manchester or Liverpool Radar. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
	MANCHESTER APP	MANCHESTER RADAR English H24	118.580 135.005	
	LIVERPOOL APP	LIVERPOOL RADAR English H24	119.855	

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
MANCHESTER TMA 2 533918N 0023900W - 533630N 0030136W - 533222N 0030059W - 533223N 0025907W - 533918N 0023900W Upper limit: FL145 Lower limit: FL55 Class: A	SCOTTISH ACC	SCOTTISH CONTROL English H24	128.055	Part of ATS Route L70 is incorporated with the Manchester TMA 2. Inbound traffic operating at or cleared to a level FL 85 or below is likely to be in communication Manchester or Liverpool Radar. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
	MANCHESTER APP	MANCHESTER RADAR English H24	118.580 135.005	
SCOTTISH TMA 1 553700N 0042847W - 554125N 0041017W - 554125N 0025510W - 553302N 0042918W - 553700N 0042847W Upper limit: FL245 Lower limit: FL195 Class: C Upper limit: FL195 Lower limit: 4500 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.375 124.825 126.300 130.975	Inbound traffic operating at or cleared to a level FL 85 is likely to be in communication Glasgow, Edinburgh or Prestwick Radar. Within the lateral boundaries of Scottish TMA 1 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SCOTTISH TMA 2 554334N 0050000W - 553302N 0042918W - 554125N 0025510W - 552700N 0030000W - 550603N 0041419W - 551214N 0050234W - 551511N 0050000W - 554334N 0050000W Upper limit: FL245 Lower limit: FL195 Class: C Upper limit: FL195 Lower limit: 5500 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.375 124.825 126.300 130.975	Inbound traffic operating at or cleared to a level FL 85 is likely to be in communication Glasgow, Edinburgh or Prestwick Radar. Within the lateral boundaries of Scottish TMA 2 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit Providing Service**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)/** **Purpose/** **SATVOICE number**	**Remarks**
1	**2**	**3**	**4**	**5**
SCOTTISH TMA 3 561400N 0040926W - 561400N 0033259W - 560700N 0032938W - 560700N 0025608W - 560008N 0024849W - 554125N 0025510W - 554125N 0041017W - 553700N 0042847W - 554428N 0045035W - 554334N 0050000W - 555000N 0050000W - 560000N 0044400W - 561400N 0040926W Upper limit: FL245 Lower limit: FL195 Class: C Upper limit: FL195 Lower limit: 6000 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.375 124.825 126.300 130.975	Inbound traffic operating at or cleared to a level FL 85 is likely to be in communication Glasgow, Edinburgh or Prestwick Radar. Within the lateral boundaries of Scottish TMA 3 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SCOTTISH TMA 4 560008N 0024849W - 553100N 0025156W - 552700N 0030000W - 560008N 0024849W Upper limit: FL245 Lower limit: FL195 Class: C Upper limit: FL195 Lower limit: 5500 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.375 124.825 126.300 130.975	Inbound traffic operating at or cleared to a level FL 85 is likely to be in communication Glasgow, Edinburgh or Prestwick Radar. Within the lateral boundaries of Scottish TMA 4 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SCOTTISH TMA 5 554428N 0045035W - 553700N 0042847W - 553302N 0042918W - 554334N 0050000W - 554428N 0045035W Upper limit: FL245 Lower limit: FL195 Class: C Upper limit: FL195 Lower limit: 3500 FT ALT Class: D	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.375 124.825 126.300 130.975	Inbound traffic operating at or cleared to a level FL 85 is likely to be in communication Glasgow, Edinburgh or Prestwick Radar. Within the lateral boundaries of Scottish TMA 5 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz)/ Purpose/ SATVOICE number	Remarks
1	2	3	4	5
SCOTTISH TMA 6 555500N 0045200W - 554600N 0044951W - 554428N 0045035W - 554334N 0050000W - 555000N 0050000W - 555500N 0045200W Upper limit: 6000 FT ALT Lower limit: 3000 FT ALT Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.375 124.825 126.300 130.975	Inbound traffic operating at or cleared to a level FL 85 is likely to be in communication Glasgow, Edinburgh or Prestwick Radar. Within the lateral boundaries of Scottish TMA 6 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
SCOTTISH TMA 7 561400N 0040926W - 561400N 0033259W - 560700N 0032938W - 560700N 0040910W - 555500N 0045200W - 560000N 0044400W - 561400N 0040926W Upper limit: 6000 FT ALT Lower limit: 4000 FT ALT Class: E	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.375 124.825 126.300 130.975	Inbound traffic operating at or cleared to a level FL 85 is likely to be in communication Glasgow, Edinburgh or Prestwick Radar. Within the lateral boundaries of Scottish TMA 7 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. To operate UAS within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Frequency MHz/ Channel Purpose/ SATVOICE number	Remarks
1	2	3	4	5
BRIZE NORTON CTR 514556N 0015202W - 515006N 0012925W - thence clockwise by the arc of a circle radius 5.5 NM centered on 514513N 0013334W to 514737N 0012537W - 514834N 0011958W - 514349N 0011753W - 513951N 0014031W - thence clockwise by the arc of a circle radius 5.5 NM centered on 514443N 0013631W to 514218N 0014427W - 514120N 0015001W - 514556N 0015202W Upper limit: 3500 FT ALT Lower limit: SFC Class: D	RAF BRIZE NORTON	BRIZE ZONE English H24	119.005 MHz	Note: BUT excluding any Airspace which is within the ATZ of Oxford Aerodrome. Brize Zone channel 119.005 is for Zone transits ONLY. RAF Brize Norton Tel: 01993-897785. See below for General Information and Paragraph 2 for VRPs.

ENR 2.1 FIR, UIR, TMA AND CTA (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit Providing Service	Callsign Language Hours of Service Conditions of Use	Frequency MHz/ Channel Purpose/ SATVOICE number	Remarks
1	2	3	4	5
	RAF BRIZE NORTON	BRIZE RADAR English 0900-1700 (0800-1600)	124.280 MHz	

1 General Information

1.1 Brize Norton Control Zone

1.1.1 Pilots wishing to enter the Control Zone must observe the normal procedure for joining Controlled Airspace and should make their request for entry when 15 NM or 5 minutes flying time (whichever is earlier) from the Control Zone Boundary. Pilots should make their request for Control Zone entry to BRIZE ZONE.

1.1.2 Pilots are advised that holding, instrument approach and departure procedures for Brize Norton are not wholly contained within the Control Zone. Additionally, due to the nature of military aircraft operations in the vicinity of Brize Norton, pilots operating in the vicinity of the Control Zone are advised to keep a good lookout for other traffic and are strongly recommended to request a Radar Service from BRIZE ZONE.

1.2 VFR Transit Flights

1.2.1 VFR flights requesting clearance to transit through the Brize Norton Control Zone may be given routing and/or altitude restrictions in order to enable VFR flights to be integrated with other traffic. Pilots should anticipate routing and/or holding instructions via the VRPs detailed in paragraph 2. Exceptionally, radar vectoring of VFR flights may be necessary for the effective integration of traffic.

1.2.2 Pilots are reminded of the requirement to remain in VMC at all times and to comply with SERA.3105 Minimum Heights and the relevant parts of SERA.5001 VMC Visibility and Distance from Cloud Minima and SERA.5005 Visual Flight Rules. Pilots must advise ATC if at any time they are unable to comply with the ATC instructions issued.

1.3 IFR Transit Flights

1.3.1 IFR flights requesting transit through the Brize Norton Control Zone will be accommodated whenever possible and will normally be given clearance and may be radar vectored to provide separation from other IFR flights.

1.3.2 Exceptionally, when re-routing would be impractical, due to the nature of military operations, vertical separation between IFR flights may be reduced to 500 FT provided that the pilots have been advised of, and have agreed to, the reduced separation.

2 Visual Reference Points (VRP)

a) Details of VRPs applicable to Brize Norton are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

ENR 2.2 OTHER REGULATED AIRSPACE

Name Lateral limits Vertical limits Class of Airspace	Unit ProvidingService	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz) Purpose	Remarks
1	2	3	4	5
BARKSTON HEATH ATZ A circle, 2 NM radius, centred at 525747N 0003337W on longest notified runway (06/24) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	CRANWELL	CRANWELL APPROACH English Mon-Thu 0830-1730 (0730-1630); Fri 0830-1700 (0730-1600).	124.455 ATC	Elevation: 367 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
BENSON ATZ A circle, 2 NM radius, centred at 513654N 0010545W on longest notified runway (01/19) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	BENSON	BENSON ZONE English H24	120.900 ATC	Elevation: 203 FT AMSL. Note 1: Prior to entering the ATZ, aircraft inbound to sites within the ATZ are to contact Benson Zone (120.900 MHz) in the first instance, or if no answer, Benson Tower (127.150 MHz), with details of route and landing site location. If no response is received this information should be transmitted blind. Note 2: ATZ crossing service only available to meet operational requirements which may include night flying. If contact is not made with Benson Zone or Tower, all aircraft are to avoid the ATZ as Air Ambulance and Police operate H24. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
BOSCOMBE DOWN ATZ A circle, 2.5 NM radius, centred at 510912N 0014504W on longest notified runway (05/23) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	BOSCOMBE DOWN	BOSCOMBE ZONE English Mon-Fri 0730-2359 (0630-2300); Sat-Sun SR-SS.	126.705 ATC	Elevation: 407 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: When EGDM MATZ is active, flights into Old Sarum are subject to local agreement between Old Sarum and Boscombe Down.
BRIZE NORTON ATZ A circle, 2.5 NM radius, centred at 514500N 0013459W on longest notified runway (08/26) Upper limit: 2000 FT AGL Lower limit: SFC Class: D	BRIZE NORTON	BRIZE ZONE English H24	119.005 ATC	Elevation: 287 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
CONINGSBY ATZ A circle, 2.5 NM radius, centred at 530535N 0000958W on longest notified runway (07/25) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	CONINGSBY	CONINGSBY APPROACH English H24	119.205 ATC	Elevation: 24 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
COSFORD ATZ A circle, 2 NM radius, centred at 523826N 0021819W on longest notified runway (06/24) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	COSFORD	COSFORD APPROACH English Sep-Jun: Sat-Wed 0900-1730 (0800-1630); Jul-Aug: Mon-Fri (0800-1630).	135.875 ATC	Elevation: 272 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note 1: Crews wishing to transit when ATC is closed should make blind calls on Cosford APP 135.875 MHz. Note 2: Air Ambulance and resident flying club activity may continue outside ATS times.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit ProvidingService**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)** **Purpose**	**Remarks**
1	**2**	**3**	**4**	**5**
CRANWELL ATZ A circle, 2.5 NM radius, centred at 530147N 0002934W on longest notified runway (08/26) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	CRANWELL	CRANWELL APPROACH English Mon-Thu 0800-1730 (0700-1630); Fri 0800-1700 (0700-1600); Sat-Sun 0900-1700 (0800-1600).	124.455 ATC	Elevation: 222 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: At weekends 124.455 is monitored by Cranwell Tower and pilots may make contact if requiring an ATZ/ MATZ crossing. No radar services available at weekends. When Air Traffic Control Services are not available, control of the ATZ is transferred to Cranwell Gliding Club 129.980 MHz (Cranwell Gliders).
CULDROSE ATZ A circle, 2.5 NM radius, centred at 500507N 0051515W on longest notified runway (11/29) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	CULDROSE	CULDROSE APPROACH English H24	134.055 ATC	Elevation: 268 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
EGPX FRA (AS PART OF BOREALIS FRA CONTINUUM) 610000N 0100000W following the line of latitude to - 610000N 0000000E - 600000N 0000000E - 570000N 0050000E - 550000N 0050000E - 543000N 0043209E - 543843N 0042000E - 544927N 0041110E - 550252N 0040000E - 552547N 0034557E - 552536N 0034259E - 552528N 0024830E - 552517N 0022451E - 552507N 0020850E - 552436N 0013246E - 552754N 0001453E - 552751N 0001521W - 552733N 0010125W - 552700N 0011023W - 552650N 0013354W - 552703N 0021345W - 552702N 0021836W - 552700N 0022627W - 552740N 0025947W - 552957N 0032110W - 553146N 0035631W - 552943N 0040436W - 552338N 0042825W - 550947N 0044512W - 550520N 0044907W - 544014N 0032836W - 542220N 0032542W - 540257N 0033104W - 535548N 0032947W - 535316N 0032923W - 535017N 0032855W - 534125N 0032734W - 534150N 0033649W - 535439N 0040737W - 535623N 0041926W - 535419N 0042151W - 535216N 0042414W - 534856N 0043030W - 534617N 0043112W - 534817N 0053000W - 535500N 0053000W - 540316N 0061212W - 542500N 0081000W - 543858N 0093320W - 543400N 0100000W - 610000N 0100000W Upper limit: FL660 Lower limit: FL255 Class: C	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.325 (Note 2 and 4) 125.680 (Note 4) 126.930 (Note 4) 129.100 (Note 1 and 4) 129.225 (Note 1, 3 and 5) 132.730 (Note 4) 134.775 (Note 2 and 4) 135.855 (Note 4)	Note 1: Scottish ACC is responsible for providing ATS between FL 245 and FL 660 within the Donegal Area. See ENR 2.2 Sect 1.8. Note 2: Copenhagen ACC is responsible for providing ATS between FL 195 and FL 660, within the North Sea High Area. See ENR 2.2 Sect 1.3. Note 3: Reykjavik ACC is responsible for providing ATS between SFC and FL 660, within the RATSU Triangle. See ENR 2.2 Sect 1.9. Note 4: Shannon ACC is responsible for providing ATS between FL 255 and FL 660, within the MOLAK Triangle. See ENR 2.2 Sect 1.9.3. Note 5: For sector dimensions associated with frequency allocation see UK AIP Supplement 017/2020.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit ProvidingService	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz) Purpose	Remarks
1	2	3	4	5
EGTT FRA WEST (AS PART OF BOREALIS FRA CONTINUUM) 531149N 0053000W - 531111N 0050858W - 525542N 0041447W - 525436N 0032650W - 525334N 0031026W - 525350N 0025933W - 525340N 0025354W - 524754N 0024827W - 524148N 0023747W - 523450N 0023151W - 523253N 0023011W - 522103N 0021713W - 521524N 0021105W - 520831N 0020338W - 520355N 0015842W - 514723N 0014106W - 514215N 0014109W - 513941N 0013712W - 513505N 0013916W - 512808N 0014035W - 512423N 0014313W - 512036N 0013359W - 511306N 0013031W - 511238N 0013600W - 511527N 0020000W - 511506N 0020000W - 505543N 0020000W - 504947N 0023317W - 504749N 0023245W - 504459N 0023107W - 504055N 0023053W - 503949N 0023058W - 503712N 0021731W - 501745N 0022725W - 495458N 0023011W - 492841N 0045513W - 493500N 0080000W - 510000N 0080000W - 522000N 0053000W - 531149N 0053000W Upper limit: FL660 Lower limit: FL245 Class: C	LONDON ACC	LONDON CONTROL English H24	126.080 128.815 129.380 (Note 1) 129.430 132.860 132.950 (Note 1) 133.600 134.460 134.755 135.255 (Note 1)	Note 1: Shannon ACC is responsible for providing ATS between FL 195 and FL 660 within the BANBA CTA. See ENR 2.2 Sect 1.7.
FAIRFORD ATZ A circle, 2.5 NM radius, centred at 514101N 0014724W on longest notified runway (09/27) Upper limit: 2000 FT AGL Lower limit: SFC Class: D	BRIZE NORTON	BRIZE ZONE English H24	119.005 ATC	Elevation: 285 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Airspace Class: D/G. Partly within Brize Norton CTR.
HALTON ATZ A circle, 2 NM radius, centred at 514732N 0004411W on longest notified runway (02/20) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	HALTON	HALTON RADIO English 0900-2000 (0800-1900) or SS+15.	130.430 A/G	Elevation: 369 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
HONINGTON ATZ A circle, 2 NM radius, centred at 522036N 0004648E on longest notified runway (08/26) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	HONINGTON	HONINGTON RADIO English Sat-Sun 0830-1700 (0730-1600). Other times by NOTAM.	124.105 A/G	Elevation: 174 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note 1: Western side of ATZ overlaps the Lakenheath/Mildenhall CMATZ.
LAKENHEATH ATZ A circle, 2.5 NM radius, centred at 522434N 0003340E on longest notified runway (06/24) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	LAKENHEATH	LAKENHEATH RADAR English H24	128.900 ATC	Elevation: 32 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Sat-Sun 0001-0859 (0001-0759) and Sat-Sun 1700-2359 (1600-2359) no ATS provided. ATZ remains active H24.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit ProvidingService	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz) Purpose	Remarks
1	2	3	4	5
LEEMING ATZ A circle, 2.5 NM radius, centred at 541733N 0013207W on longest notified runway (16/34) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	LEEMING	LEEMING ZONE English Mon-Thu 0800-1800 (0700-1700); Fri 0900-1700 (0800-1600).	133.380 ATC	Elevation: 132 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
LEUCHARS ATZ A circle, 2.5 NM radius, centred at 562230N 0025132W on longest notified runway (08/26) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	LEUCHARS	LEUCHARS RADAR English H24	126.505 ATC	Elevation: 38 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
LITTLE RISSINGTON ATZ A circle, 2 NM radius, centred at 515202N 0014139W on longest notified runway (04/22) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	LITTLE RISSINGTON	RISSINGTON RADIO English Sat-Sun and Public Holidays 0830-1800 (0730-1700).	120.780 A/G	Elevation: 731 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Mil AGCS available during notified hours.
LOSSIEMOUTH ATZ A circle, 2.5 NM radius, centred at 574224N 0032016W on longest notified runway (05/23) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	LOSSIEMOUTH	LOSSIE RADAR English H24	119.575 ATC	Elevation: 40 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
MARHAM ATZ A circle, 2.5 NM radius, centred at 523854N 0003302E on longest notified runway (05/23) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	MARHAM	MARHAM ZONE English H24	124.155 ATC	Elevation: 76 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Outside of hours of ATS, ATZ remains active.
MERRYFIELD ATZ A circle, 2.5 NM radius, centred at 505747N 0025620W on longest notified runway (09/27) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	MERRYFIELD	MERRYFIELD TOWER English By NOTAM.	122.100 ATC	Elevation: 144 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
MIDDLE WALLOP ATZ A circle, 2 NM radius, centred at 510828N 0013422W Upper limit: 2000 FT AGL Lower limit: SFC Class: G	BOSCOMBE DOWN	BOSCOMBE ZONE English H24	126.705 ATC	Elevation: 297 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Outside of hours of ATS, ATZ remains active.
MILDENHALL ATZ A circle, 2.5 NM radius, centred at 522143N 0002911E on longest notified runway (11/29) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	LAKENHEATH	LAKENHEATH RADAR English H24	128.900 ATC	Elevation: 34 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Outside of hours of ATS, ATZ remains active.
MONA ATZ A circle, 2 NM radius, centred at 531533N 0042226W on longest notified runway (04/22) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	VALLEY	VALLEY RADAR English Mon-Thu 0800-2359 (0700-2300); Fri-Sun 0800-2200 (0700-2100).	125.230 ATC	Elevation: 202 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit ProvidingService	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz) Purpose	Remarks
1	2	3	4	5
NETHERAVON ATZ A circle, 2 NM radius, centred at 511453N 0014517W on longest notified runway (11/29) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	NETHERAVON	NETHERAVON INFORMATION English H24	128.305 AFIS	Elevation: 454 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Aircraft flying within the ATZ are to call AFIS or DZ Radio on 128.305. If no answer make blind calls.
NORTH SEA REDUCED COORDINATION AREA 552528N 0024830E - 545747N 0031350E - 541820N 0033908E - 533948N 0031120E - 531015N 0024622E - 531935N 0013046E - 532900N 0002406E - 534303N 0012559W - 541036N 0015420W - 543206N 0014419W - 545236N 0025346W - 551650N 0022600W - 552650N 0013354W - 552700N 0011023W - 552733N 0010125W - 552751N 0001521W - 552754N 0001453E - 552436N 0013246E - 552507N 0020850E - 552517N 0022451E - 552528N 0024830E Upper limit: FL660 Lower limit: FL195 Class: C	LONDON ACC	LONDON CONTROL English H24	126.780 (Note 9) 128.130 (Note 8)	Within Controlled Airspace at all levels, inclusive of FL 195 to FL 245, except during periods of notified activation of TRA 5, 6, 7A, 7B. Note 1: Within active TRA lower limit is raised to FL 245. Note 2: South of line DIGBI-ERLOT-GIVEM-BADGA and west of line BADGA-PELET-ROKAN-ROXAT and east of line ROXAT-NATEB. Note 3: Above FL 255 - North of ERKIT, south of ALASO, east of 0020000W and west of 0000000E. Note 4: South of 550000N and west of 0020000W. Note 5: Above FL 255 - North of 550000N and west of 0020000W. Note 6: Below FL 285 - North of L46, east of Y250 and UP17, west of M79. Note 7: Below FL 255 - North of BAVDO, south of ALASO, east of OTBUN and west of DIGBI. Note 8: Below FL 335 - Within EMLON-TENDO-ERKIT-MITSO-LEGRO. Note 9: Above FL 335 - Within EMLON-TENDO-ERKIT-MITSO-LEGRO.
	SCOTTISH ACC	SCOTTISH CONTROL English H24	121.325 (Note 2) 124.500 (Note 7) 126.930 (Note 3) 133.800 (Note 6) 135.530 (Note 4) 135.855 (Note 5)	
NORTHOLT ATZ A circle, 2 NM radius, centred at 513310N 0002511W on longest notified runway (07/25). Upper limit: 2000 FT AGL Lower limit: SFC Class: D	NORTHOLT	NORTHOLT APPROACH English H24	126.450 ATC	Elevation 126 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: When Northolt aerodrome is closed, Heli routes/ATZ transits are controlled by Heathrow Radar (125.625 MHz).
ODIHAM ATZ A circle, 2 NM radius, centred at 511403N 0005634W on longest notified runway (09/27) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	ODIHAM	ODIHAM APPROACH English H24	131.305 ATC	Elevation: 405 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note 1: Odiham Approach, except weekends and PH, when the task may be carried out by Farnborough on Frequency 125.250 MHz. Note 2: Outside of hours of ATS, ATZ remains active.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Name **Lateral limits** **Vertical limits** **Class of Airspace**	**Unit ProvidingService**	**Callsign** **Language** **Hours of Service** **Conditions of Use**	**Channel/** **Frequency(MHz)** **Purpose**	**Remarks**
1	**2**	**3**	**4**	**5**
PORTSMOUTH/FLEETLANDS ATZ 504810N 0010929W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505007N 0011010W to 505054N 0011304W thence clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 505049N 0011117W - 504824N 0010921W thence clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 504810N 0010929W Upper limit: 2000 FT AGL Lower limit: SFC Class: G	FLEETLANDS	FLEETLANDS INFORMATION English Mon-Thu 0830-1700 (0730-1600), Fri 0830-1500 (0730-1400) or SS, whichever is earlier.	135.705 AFIS	Elevation: 27 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Aircraft operations may be encountered outside of published hours.
PREDANNACK ATZ A circle, 2 NM radius, centred at 500007N 0051354W on longest notified runway (05/23) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	CULDROSE	CULDROSE APPROACH English H24	134.055 ATC	Elevation: 299 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
SHAWBURY ATZ A circle, 2 NM radius, centred at 524737N 0024005W on longest notified runway (18/36) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	SHAWBURY	SHAWBURY ZONE English H24	133.155 ATC	Elevation: 248 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
SYERSTON ATZ A circle, 2 NM radius, centred at 530124N 0005442W on longest notified runway (06/24) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	SYERSTON	SYERSTON RADIO English Mon-Fri (Excluding Public Holidays) 0830-1700 (0730-1600); Sat-Sun and Public Holidays 0830-SS+15 (0730-SS+15).	128.530 A/G	Elevation: 231 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Mil ACGS available during notified hours.
TERNHILL ATZ A circle, 2 NM radius, centred at 525223N 0023156W on longest notified runway (05/23) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	SHAWBURY	SHAWBURY ZONE English Mon-Thu 0830-0230 (0730-0130); Fri 0800-1700 (0700-1600); Sat-Sun SR-SS+15.	133.155 ATC	Elevation: 285 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Weekend and out of hours, freecall Ternhill Radio for Aerodrome information freq 122.100 MHz.
TOPCLIFFE ATZ A circle, 2 NM radius, centred at 541220N 0012254W on longest notified runway (02/20) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	TOPCLIFFE	TOPCLIFFE RADIO English Sat-Sun and Public Holidays 0830-SS+15 (0730-SS+15).	121.455 ATC	Elevation: 91 FT AMSL. Note 1: Mil AGCS available during notified hours. Note 2: Yorkshire Air Ambulance operate outside of ATZ hours, 0700-2200 (0600-2100) 7 days a week.
VALLEY ATZ A circle, 2.5 NM radius, centred at 531453N 0043207W on longest notified runway (13/31) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	VALLEY	VALLEY RADAR English H24	125.230 ATC	Elevation: 37 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Outside of hours of ATS, ATZ remains active.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Name Lateral limits Vertical limits Class of Airspace	Unit ProvidingService	Callsign Language Hours of Service Conditions of Use	Channel/ Frequency(MHz) Purpose	Remarks
1	2	3	4	5
WADDINGTON ATZ A circle, 2.5 NM radius, centred at 530958N 0003126W on longest notified runway (02/20) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	WADDINGTON	WADDINGTON ZONE English H24	119.505 ATC	Elevation: 230 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
WATTISHAM ATZ A circle, 2.5 NM radius, centred at 520737N 0005719E on longest notified runway (05/23) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	WATTISHAM	WATTISHAM APPROACH English H24	125.800 ATC	Elevation: 283 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service.
WITTERING ATZ A circle, 2.5 NM radius, centred at 523647N 0002833W on longest notified runway (07/25) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	WITTERING	WITTERING ZONE English H24	119.680 ATC Note 1	Elevation: 274 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Caution: Unlit aircraft operate at night. Note 1: Primary Freq for Mil (234.075 MHz).
WOODVALE ATZ A circle, 2 NM radius, centred at 533454N 0030327W on longest notified runway (03/21) Upper limit: 2000 FT AGL Lower limit: SFC Class: G	WOODVALE	WOODVALE INFORMATION English Sun-Thu 0845-1745, or SS+30 (0745-1645, or SS+30) whichever is earlier.	121.000 AFIS	Elevation: 37 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note 1: AD may close earlier by NOTAM, AD status available from: Warton RADAR 129.530 MHz; Blackpool APP 119.955 MHz; Liverpool APP 119.855 MHz. Note 2: Police helicopter and other aerial activity H24. Note 3: OOH if Woodvale INFORMATION is not available, announce intentions and make standard R/T calls on 121.000 MHz.
YEOVILTON ATZ 505817N 0024035W thence clockwise by the arc of a circle radius 2.5 NM centred on 510030N 0023844W to 505804N 0023747W - 505817N 0024035W Upper limit: 2000 FT AGL Lower limit: SFC Class: G	YEOVILTON	YEOVIL RADAR English H24	127.355 ATC	Elevation: 75 FT AMSL. Hours of applicability for Rule 11 - See Column 3 Hours of Service. Note: Police/SAR/Air Ambulance are approved to transit the ATZ without ATS provision. They should call Yeovil Tower 120.800 MHz when transiting, this freq is monitored when activity is taking place.

1 AIRSPACE WITHIN WHICH ATS IS DELEGATED

1.1 The Areas Involved in the Transfer of ATS Responsibility Within the Northern North Sea at FL 85 and Below

1.1.1 **North Sea Area I** — Class G Airspace.

In this part of the Polaris FIR, the United Kingdom will provide Air Traffic Services to all aircraft at FL 85 and below. Procedures and communications will be as if this airspace is an integral part of the Scottish FIR. This area is bounded by arcs of Great Circles joining in succession the following points:
590504N 0013916E - 600000N 0000000E - 630000N 0000000E following the line of latitude to - 630000N 0003120E - 625328N

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

0003821E - 622219N 0010622E - 614410N 0013329E - 612122N 0014718E - 595346N 0020430E - 591722N 0014236E - 590504N 0013916E.

1.1.2 **North Sea Area II** – Class G Airspace (includes two areas of Class D Airspace).

In this part of the Scottish FIR, Norway will provide Air Traffic Services to all aircraft at FL 85 and below. Procedures and communications will be as if this airspace is an integral part of the Polaris FIR. This area is bounded by arcs of Great Circles joining in succession the following points:
590504N 0013916E - 570000N 0050000E - 563500N 0050000E - 560510N 0031455E - 563540N 0023642E - 575416N 0015748E - 582546N 0012854E - 590504N 0013916E.

1.1.2.1 **Balder CTA** – Class D Airspace.

In this airspace, contained within the North Sea Area II, a CTA of airspace Classification D has been established, in which Norway will provide Air Traffic Services to all aircraft at 1500 FT to FL 85. Procedures and communications will be as if this airspace is an integral part of the Polaris FIR. For lateral limits, please refer to CTA entry detailed in ENR 2.1.

1.1.2.2 **Ekofisk CTA** – Class D Airspace

In this airspace, contained within the North Sea Area II, a CTA of airspace Classification D has been established, in which Norway will provide Air Traffic Services to all aircraft at 1500 FT to FL 85. Procedures and communications will be as if this airspace is an integral part of the Polaris FIR. For lateral limits, please refer to CTA entry detailed in ENR 2.1. RMZ is SFC to 1500 FT ALT, please refer to ENR 2.2, paragraph 5.1 for lateral limits.

1.1.3 **North Sea Area III** — Class G Airspace.

In this part of the Scottish FIR, Denmark will provide Air Traffic Services to all aircraft at FL 85 and below. Procedures and communications will be as if this airspace is an integral part of the Copenhagen FIR. This area is bounded by arcs of Great Circles joining in succession the following points:
563500N 0050000E - 550000N 0050000E - 551958N 0041955E - 554552N 0032208E - 555004N 0032355E - 555458N 0032055E - 560510N 0031455E - 563500N 0050000E.

1.1.4 **North Sea Area IV** — Class G Airspace (See Note).

In this part of the Reykjavik FIR/OCA, the United Kingdom will provide Air Traffic Services to all aircraft at FL 85 and below during the notified times of the Sumburgh Radar (Aberdeen ATSU) as listed at ENR 1.6, paragraph 4.5.2.2. Procedures and communications will be as if this airspace is an integral part of the Scottish FIR. This area is bounded by rhumb lines joining points (1) to (2) and points (3) to (4) and the arcs of Great Circles joining points (2) to (3) and points (4) to (1). The points within the Reykjavik FIR/OCA are:
(1) 610000N 0000000E following the line of latitude to -
(2) 610000N 0040000W -
(3) 630000N 0012637W following the line of latitude to -
(4) 630000N 0000000E -
(1) 610000N 0000000E.

Note: *Class A FL 55 and above outside notified times.*

1.2 The Area Involved in the Transfer of ATS Responsibility Within the Southern North Sea at FL 55 and Below

1.2.1 **North Sea Area V** — Class G Airspace.

In these parts of the London and Scottish FIRs the Netherlands will provide Air Traffic Services to all aircraft at FL 55 and below (FL 45 and below, beneath EGD323D and EGD323E). Procedures and communications will be as if this airspace was an integral part of the Amsterdam FIR. This area is bounded (excluding the extreme south-eastern fillet of EGD323E) by the arcs of Great Circles joining in succession the following points:
550000N 0050000E - 551958N 0041955E - 554552N 0032208E - 543715N 0025349E - 542245N 0024543E - 535745N 0025155E - 534003N 0025719E - 533503N 0025913E - 532809N 0030055E - 531803N 0030319E - 525551N 0030936E - 550000N 0050000E.
Aircraft operating within Area V are strongly encouraged to contact Amsterdam ACC (on published frequencies, providing their position, altitude, squawk, heading and intentions) and strongly encouraged to ensure that transponders are switched on and operational in Mode 3/A and C/ALT.

1.3 The Area Involved in the Transfer of ATS Responsibility Within the North Sea High Area between FL 195 and FL 660 (inclusive)

1.3.1 **North Sea High Area - FL 195 - FL 660** — Class C Airspace.

In these parts of the London and Scottish UIRs/FIRs Denmark will provide Air Traffic Services to all aircraft between FL 195 and FL 660 (inclusive) in parts of the London and Scottish FIRs/UIRs to Denmark. Procedures and communications will be as if this airspace was an integral part of the Copenhagen FIR. This area is bounded by arcs of Great Circles joining in succession the

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

following points:
570000N 0050000E - 550000N 0050000E - 543000N 0043209E - 543843N 0042000E - 544927N 0041110E - 550252N 0040000E - 555116N 0033000E - 563035N 0033000E - 572000N 0042958E - 570000N 0050000E.

1.4 The Area Involved in the Transfer of ATS Responsibility Within the Southern North Sea between FL 175 and FL 245 (inclusive).

1.4.1 **North Sea CTA 2 (GODOS) and North Sea CTA 3 (MOLIX).**
FL 195 - FL 245 — Class C Airspace.
FL 175 - FL 195 — Class A Airspace.
In these parts of the London FIR the Netherlands will provide Air Traffic Services to all aircraft between FL 175 and FL 245 (inclusive) operating on ATS routes L17, L60, L74, L602, L989, M981, M982 and Y70. Procedures and communications will be as if this airspace was an integral part of the Amsterdam FIR.

1.5 The Area Involved in the Transfer of ATS Responsibility Within the Amsterdam FIR.

1.5.1 **IBNOS Area**

FL 245 - FL 660 — Class C Airspace (ATS - London Area Control (Swanwick)).

In these parts of the Amsterdam FIR the United Kingdom will provide Air Traffic Services to all aircraft between FL 245 and FL 660 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. This area is bounded in succession by the following points:
515702.16N 0022122.62E - 515756.44N 0031018.61E - 512850.17N 0031018.61E - 514244.83N 0021001.17E - 515702.16N 0022122.62E

1.5.2 **ABNED Area**

FL 215 - FL 245— Class C Airspace (ATS - London Terminal Control (Swanwick)).

In these parts of the Amsterdam FIR the United Kingdom will provide Air Traffic Services to all aircraft between FL 215 and FL 245 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. This area is bounded in succession by the following points:
520027.05N 0031018.61E - 512850.17N 0031018.61E - 513812.59N 0023000.00E - 512720.12N 0023000.00E - 513000.00N 0020000.00E - 515709.71N 0022128.66E - 520027.05N 0031018.61E.

1.5.3 **AMRIV Area**

FL 195 - FL 215 — Class C Airspace (ATS - London Terminal Control (Swanwick)).
FL 55 - FL 195 — Class A Airspace (ATS - London Terminal Control (Swanwick)).

In these parts of the Amsterdam FIR the United Kingdom will provide Air Traffic Services to all aircraft between FL 55 and FL 215 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. This area is bounded in succession by the following points:
515827.02N 0024000.87E - 513554.52N 0024000.87E - 513812.59N 0023000.00E - 512720.12N 0023000.00E - 513000.00N 0020000.00E - 515709.71N 0022128.66E - 515827.02N 0024000.87E.

1.5.4 **SASKI Area B**

FL 245 - FL 660 — Class C Airspace (ATS - London Area Control (Swanwick)).

In these parts of the Amsterdam FIR the United Kingdom will provide Air Traffic Services to all aircraft between FL 245 and FL 660 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. This area is bounded in succession by the following points:
514244.83N 0021001.17E - 513812.59N 0023000.00E - 512720.12N 0023000.00E - 513000.00N 0020000.00E - 514244.83N 0021001.17E.

1.6 The Area Involved in the Transfer of ATS Responsibility Within the Southwestern Corner of the London UIR between FL 245 and FL 660 (inclusive)

1.6.1 **LARLA Triangle** - FL 245 - FL 660 — Class C Airspace.

In this part of the London UIR, France will provide Air Traffic Services to all aircraft between FL 245 and FL 660 (inclusive). Procedures and communications will be as if this airspace were an integral part of the France UIR. This area is bounded by arcs of Great Circles joining in succession the following points:
493323N 0065617W - 492841N 0045513W - 485542N 0073430W - 493323N 0065617W.

For FRA procedures see AIP France.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

1.6.2 **TAKAS Box** - FL 245 - FL 660 — Class C Airspace.

In this part of the London UIR, the Irish Republic will provide Air Traffic Services to all aircraft between FL 245 and FL 660 (inclusive). Procedures and communications will be as if this airspace were an integral part of the Shannon UIR. This area is bounded by arcs of Great Circles joining in succession the following points:
493500N 0080000W - 493323N 0065617W - 485542N 0073430W - 485000N 0080000W - 493500N 0080000W.

For FRA procedures see AIP Ireland.

1.7 The Area Involved in the Transfer of ATS Responsibility Within the Irish Sea

1.7.1 **Holyhead CTAs 10, 11, 12, 13, 14, 19, 20 and 21 and Irish Sea CTAs 4, 5, 6 and 7** — Class C Airspace.

In this part of the London FIR, the Irish Republic will provide Air Traffic Services to all GAT. Procedures and communications will be as if this airspace were an integral part of the Shannon FIR.

1.7.2 **BANBA CTA** FL 195 - FL 660 — Class C Airspace.

In this part of the London FIR/UIR, the Irish Republic will provide Air Traffic Services to all GAT, between FL 195 and FL 660 (inclusive). Procedures and communications will be as if this airspace were an integral part of the Shannon UIR.

1.8 The Area Involved in the Transfer of ATS Responsibility Within the Shannon FIR/UIR

1.8.1 **Donegal Area -** FL 245 - FL 660 — Class C Airspace.

In this part of the Shannon UIR, the United Kingdom (Scottish AC (Prestwick)) will provide Air Traffic Services to all aircraft between FL 245 and FL 660 (inclusive). Procedures and communications will be as if this airspace were an integral part of the Scottish UIR. This area is bounded by arcs of Great Circles joining in succession the following points:
542500N 0081000W - 552000N 0065500W - 552500N 0072000W - 552000N 0081500W - 544500N 0090000W - 543858N 0093320W - 542500N 0081000W.

1.8.2 **EGLINTON CTA (CTA 1)** 1500 FT ALT - FL 75 - Class C Airspace (ATS - EGAE).

In this part of the Shannon FIR, the United Kingdom will provide Air Traffic Services to all aircraft between 1500 FT altitude and FL 75 (inclusive). Procedures and communications will be as if this airspace was an integral part of the Scottish FIR. This area is bounded in succession by the following points:
550527N 0071520W - 545506N 0072926W - 550205N 0073332W - 550527N 0071520W.

1.8.3 **EGLINTON CTA (CTA 2)** 2000 FT ALT - FL 75 — Class C Airspace (ATS - EGAE).

In this part of the Shannon FIR, the United Kingdom will provide Air Traffic Services to all aircraft between 2000 FT altitude and FL 75 (inclusive). Procedures and communications will be as if this airspace was an integral part of the Scottish FIR. This area is bounded in succession by the following points:
550205N 0073332W - 545506N 0072926W - 545212N 0073329W - 550114N 0073807W - 550205N 0073332W.

1.8.4 **EGLINTON CTA (CTA 3)** 3000 FT ALT - FL 75 - Class C Airspace (ATS - EGAE).

In this part of the Shannon FIR, the United Kingdom will provide Air Traffic Services to all aircraft between 3000 FT altitude and FL 75 (inclusive). Procedures and communications will be as if this airspace was an integral part of the Scottish FIR. This area is bounded in succession by the following points:
551217N 0070547W - 550527N 0071520W - 550317N 0072703W - Arc 10 NM radius centred on EGAE ARP (550234N 0070943W) - 551217N 0070547W.

1.8.5 Outside the published hours of operation of Eglinton ATC (or NOTAM extensions thereof), the blocks of Airspace CTA1, CTA2, CTA3, revert to Class G Airspace under the authority of Shannon ACC.

1.9 The Area Involved in the Transfer of ATS Responsibility Within the North Atlantic

1.9.1 **RATSU Triangle**

SFC - FL 195 — Class G Airspace.
FL 195 - FL 660 — Class C Airspace.

In this part of the Scottish FIR/UIR, Iceland (Reykjavik ACC) will provide Air Traffic Services to all aircraft between the surface and FL 660 (inclusive). Procedures and communications will be as if this airspace were an integral part of the Reykjavik FIR. The area is bounded by straight lines joining in succession the following points:
610000N 0070000W - 604000N 0100000W - 610000N 0100000W following the line of latitude to - 610000N 0070000W.

1.9.2 **The Common Boundary Line (61N)**

SFC - FL 195 — Class G Airspace.
FL 195 - FL 660 — Class C Airspace.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

At the Scottish and Reykjavik FIR/UIR boundary, Iceland (Reykjavik ACC) will provide Air Traffic Services to all aircraft between the surface and FL 660 (inclusive). Procedures and communications will be as if this airspace were an integral part of the Reykjavik FIR. The area is a straight line joining the following points:
610000N 0000000E following the line of latitude to - 610000N 0070000W.

1.9.3 **MOLAK Triangle**

FL255 - FL660 — Class C Airspace.

In this part of the Scottish UIR, the Irish Republic (Shannon ACC) will provide Air Traffic Services to all aircraft between FL 255 and FL 660 (inclusive). Procedures and communications will be as if this airspace were an integral part of the Shannon UIR. The area is bounded by straight lines joining in succession the following points:
544311.750N 0100000.000W - 543857.730N 0093320.029W - 543400.000N 0100000.000W - 544311.750N 0100000.000W.

1.10 The Area Involved in the Transfer of ATS Responsibility Within the Paris FIR – La Manche Low.

1.10.1 **La Manche East (Low) 1 – FL 115 - FL 265.**

FL 115 - FL 195 — Class D Airspace (ATS - London Area Control (Swanwick)).
FL 195 - FL 265 — Class C Airspace (ATS - London Area Control (Swanwick)).

In these parts of the Paris FIR the United Kingdom will provide Air Traffic Services to all aircraft between FL 115 and FL 265 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. The area is bounded by arcs of Great Circles joining in succession the following points:

504000N 0012800E - 503606N 0013218E - 501017N 0015131E - 500331N 0013906E - 501629N 0010108E - 502517N 0004917E - 504000N 0012800E.

1.10.2 **La Manche East (Low) 2 – FL 195 - FL 265.**

FL 195 - FL 265 — Class C Airspace (ATS - London Area Control (Swanwick)).

In these parts of the Paris FIR the United Kingdom will provide Air Traffic Services to all aircraft between FL 195 and FL 265 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. The area is bounded by arcs of Great Circles joining in succession the following points:

501629N 0010108E - 500331N 0013906E - 495656N 0012709E - 501629N 0010108E.

1.10.3 **La Manche East (Low) 3 – FL 115 - FL 265.**

FL 115 - FL 195 — Class D Airspace (ATS - London Terminal Control (Swanwick)).
FL 195 - FL 265 — Class C Airspace (ATS - London Area Control (Swanwick)).

In these parts of the Paris FIR the United Kingdom will provide Air Traffic Services to all aircraft between FL 115 and FL 265 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. The area is bounded by arcs of Great Circles joining in succession the following points:

505419N 0012754E - 504244N 0014405E - 503925N 0013811E - 503606N 0013218E - 504000N 0012800E - 505419N 0012754E.

1.11 The Area Involved in the Transfer of ATS Responsibility Within the Reims UIR – La Manche High Area.

1.11.1 **La Manche East (High 1) - FL 265 - FL 285 — Class C Airspace.**

In this part of the Reims UIR, the United Kingdom will provide Air Traffic Services to all aircraft between FL 265 and FL 285 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. The area is bounded by arcs of Great Circles joining in succession the following points:

505419N 0012754E - 504244N 0014405E - 503925N 0013811E - 503606N 0013218E - 501346N 0015706E - 501017N 0015131E - 500659N 0014527E - 495656N 0012709E - 495951N 0012317E - 495841N 0011944E - 502405N 0004611E - 502517N 0004917E - 504000N 0012800E - 505419N 0012754E.

1.11.2 **La Manche East (High 2) - FL 285 - FL 660 — Class C Airspace.**

In this part of the Reims UIR, the United Kingdom will provide Air Traffic Services to all aircraft between FL 285 and FL 660 (inclusive). Procedures and communications will be as if this airspace was an integral part of the London FIR/UIR. The area is bounded by arcs of Great Circles joining in succession the following points:

505419N 0012754E - 504244N 0014405E - 503925N 0013811E - 503606N 0013218E - 501346N 0015706E - 501017N 0015131E - 500659N 0014527E - 495656N 0012709E - 495519N 0012412E - 495841N 0011944E - 502405N 0004611E - 502517N 0004917E - 504000N 0012800E - 505419N 0012754E.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

1.12 The Area Involved in the Transfer of ATS Responsibility Within the London FIR – South-eastern Section of the English Channel.

1.12.1 **Part of Lille TMA Area 7 - 1500 FT AMSL - FL 65 Class E Airspace (ATS Lille Approach).**

In this part of the London FIR, France will provide Air Traffic Services to all aircraft between 1500 FT AMSL – FL 65 (inclusive). Procedures and communications will be as if this airspace was an integral part of the Paris FIR. The area is bounded by arcs of Great Circles joining in succession the following points:

503800N 0011500E - 504526N 0012800E - 504000N 0012800E - 503608N 0011744E - 503800N 0011500E.

1.13 The Area Involved in the Transfer of ATS Responsibility Within the London FIR – The Channel Islands.

1.13.1 **Channel Islands CTA 1 (North) - FL 55 - FL 80 — Class D Airspace.**

In this part of the London FIR, Jersey will provide Air Traffic Services to all aircraft between FL 55 and FL 80 (inclusive). Procedures and communications will be as if this airspace was an integral part of the Channel Islands airspace which is delegated to Jersey from France during the opening hours of Jersey ATC. The area is bounded by arcs of Great Circles joining in succession the following points:

500000N 0030000W - 494951N 0030000W - 494802N 0031023W - 500000N 0032000W following the line of latitude to - 500000N 0030000W.

1.13.2 **Channel Islands Control Zone (North) - SFC - FL 80 — Class D Airspace.**

In this part of the London FIR, Jersey will provide Air Traffic Services to all aircraft between SFC and FL 80 (inclusive). Procedures and communications will be as if this airspace was an integral part of the Channel Islands airspace which is delegated to Jersey from France during the opening hours of Jersey ATC. The area is bounded by arcs of Great Circles joining in succession the following points:

500000N 0020000W - 494951N 0030000W - 500000N 0030000W following the line of latitude to - 500000N 0020000W.

1.13.3 **Channel Islands TMA (North) - FL 80 - FL 195 — Class A Airspace.**

In this part of the London FIR, Jersey will provide Air Traffic Services to all aircraft between FL 80 and FL 195 (inclusive). Procedures and communications will be as if this airspace was an integral part of the Channel Islands airspace which is delegated to Jersey from France during the opening hours of Jersey ATC. The area is bounded by arcs of Great Circles joining in succession the following points:

500000N 0020000W - 494802N 0031023W - 500000N 0032000W following the line of latitude to - 500000N 0020000W.

1.14 The Areas involved in the Transfer of ATS Responsibility are marked on the charts at ENR 6-44 to ENR 6-58.

2 MILITARY AERODROME TRAFFIC ZONES

2.1 Description

2.1.1 At certain military aerodromes, Military Aerodrome Traffic Zones (MATZ) have been established to provide a volume of airspace within which increased protection may be given to aircraft in the critical stages of circuit, approach and climb-out. A MATZ acquires the status of the airspace classification within which it lies; however, additional mandatory ATC requirements are invariably specified for military pilots. In the airspace outside the Aerodrome Traffic Zone (ATZ), observation of MATZ procedures is not compulsory for civil pilots.

2.1.2 MATZ are established at the locations listed at paragraph 2.4 and shown on the chart at ENR 6-59.

2.1.3 In general, the dimensions of a MATZ are as follows:

a) The airspace within 5 NM radius of the mid-point of the longest runway, from the surface to 3000 FT AAL.
b) The airspace within a stub or stubs projected from the above airspace, having a length of 5 NM along the centre-line(s) aligned with the selected final approach path(s), and a width of 4 NM (2 NM either side of the centre-line) from 1000 FT AAL to 3000 FT AAL.
c) Exceptions to the above exist; however, for details of the dimensions of specific zones and the associated stub(s) see paragraph 2.4 and ENR 6-59 (chart).

2.1.4 Where two or more MATZs are grouped together and one aerodrome is designated the Controlling Aerodrome, the upper limit of each MATZ within the Combined MATZ (CMATZ) is determined with reference to the elevation of the higher (or highest) aerodrome in the CMATZ.

2.1.5 An ATZ, as defined in the Air Navigation Order, exists within a MATZ and is based upon the same reference point as defined in paragraph 2.1.3 and detailed at paragraph 2.4. Although civil recognition of a MATZ is not mandatory, pilots are to comply with the

provisions of Rule 11 of the Rules of the Air Regulations 2015 in respect of the ATZ. The notified hours of operation of an ATZ may vary from the notified hours of watch of a MATZ.

2.1.6 A MATZ is operative when the aerodrome concerned, or in the case of a CMATZ, any one of the aerodromes, is open. Normally, the Controlling Aerodrome ATC Unit for a CMATZ is to remain open while any one of the aerodromes in the CMATZ is open for flying. Alternatively, the Controlling Aerodrome is to delegate overall responsibility to the aerodrome remaining open, including arrangements for operating the CMATZ frequency.

2.2 Procedures for Penetration of a MATZ

2.2.1 A MATZ Penetration Service is available from the controlling aerodromes listed at paragraph 2.4 for the provision of increased protection to RTF equipped aircraft. Pilots wishing to penetrate a MATZ, and where required the associated ATZ, are requested to observe the following procedures:

a) When 15 NM or 5 minutes flying time from the zone boundary, whichever is the greater, establish two-way RTF communication with the controlling aerodrome on the appropriate frequency using the phraseology:

'..... (controlling aerodrome), this is ..... (aircraft callsign), request MATZ (and ATZ) penetration.'

b) when the call is acknowledged and when asked to 'pass your message', the pilot should pass the following information:

i. Callsign;
ii. Type of aircraft;
iii. Position;
iv. Heading;
v. Altitude;
vi. Intentions (eg destination and the intention to route through one or more ATZ);

c) comply with any instructions issued by the controller;
d) maintain a listening watch on the allocated RTF frequency until the aircraft is clear of the MATZ/ATZ;
e) advise the controller when the aircraft is clear of the MATZ/ATZ.

Note 1: *Flight conditions are not required unless requested by the controller.*

Note 2: *Terrain clearance will be the responsibility of the pilot.*

Note 3: *Since compliance is not compulsory for civil aircraft some aircraft within the MATZ may not be known to the controller. All pilots should therefore maintain a good look-out at all times.*

2.2.2 The military ATSU providing the MATZ Penetration Service will normally continue with the service that the aircraft was previously receiving. In the interests of flight safety and good airmanship, it is strongly recommended that all pilots not previously receiving an ATS obtain a MATZ penetration 'approval' from the MATZ operating authority prior to entering a MATZ. It is recognised that most MATZ crossing/penetration 'approvals' will be obtained via RTF by pilots in receipt of a UK FIS; however, it should be possible for a pilot to request a MATZ crossing/penetration 'approval' without the use of radio (i.e. by prior agreement via telephone). In accordance with Class G Airspace classification and the rules of UK FIS, pilots are ultimately responsible for maintaining their own separation against other airspace users within the MATZ. Occasionally, a change in service may need to be negotiated in order to facilitate the MATZ crossing and the advisory information and/or instructions passed by the ATSU will accord with the service being provided. In the event of no radar being available, a non-radar Basic Service, and/or routing instructions, might be provided to aircraft penetrating the MATZ.

2.2.3 Where a MATZ penetration approval cannot be issued, pilots are advised to avoid the MATZ, notwithstanding any action necessary to maintain the safety of the aircraft and/or its occupants.

2.2.4 Subject to paragraph 2.2.5, when crossing a MATZ or CMATZ it is the responsibility of the pilot to ensure that permission is obtained to transit each individual ATZ embedded therein. The pilot, in his request for approval to transit the MATZ/CMATZ, may ask the controller to obtain such permission on his behalf. When issuing any approval to cross a MATZ or CMATZ controllers are, where appropriate, to articulate clearly any permission to transit embedded ATZs.

2.2.5 Whilst specific permission is not required to transit an ATZ that is not served by an ATC unit, flights within such ATZs are nevertheless subject to the pilot obtaining information from the associated flight information service unit or air/ground unit to enable the flight to be conducted safely (Rule 11 of the Rules of the Air Regulations 2015 refers). In such cases the pilot may ask the controller to obtain relevant information on his behalf.

2.2.6 If appropriate, controllers will endeavour to co-ordinate flights with the controlling authority of an adjacent MATZ, but pilots should not assume approval to penetrate another MATZ until it is explicitly given.

Note: *Given that military aircrew observance of a MATZ and associated ATC requirements are mandatory, MATZ penetration by a military aircraft is subject to specific permission/clearance.*

2.2.7 To enable vertical separation to be applied, all aircraft will be given an altimeter setting to use within the MATZ. Normally this will be the aerodrome QFE, with the exceptions being listed in the table remarks at para 2.4. In the case of overlapping MATZs, the altimeter setting to be used will be the QFE of the higher or highest aerodrome of the CMATZ. This will be passed as the 'Clutch

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

QFE'.

2.3 Availability of the MATZ Penetration Service

2.3.1 A MATZ Penetration Service will be available during the published hours of watch of the respective ATS Units. However, as many units are often open for flying outside normal operating hours, pilots should call for the penetration service irrespective of the hours of watch published. If, outside normal operating hours, no reply is received after two consecutive calls, pilots are advised to proceed with caution. Information on the operation of aerodromes outside their normal operating hours may be obtained by telephone from the Distress and Diversion (D & D) cell at the London ATCC. Telephone: 01489-612406.

2.4 MATZ Participating Aerodromes

MATZ Designation/ Mid-point of Longest Runway	AD Elevation (FT) (AMSL)	MATZ Core Radius/Limits	1st Stub Heading °T to AD/ Distance/ Limits	2nd Stub Heading °T to AD/ Distance	Controlling Aerodrome/ ATS unit callsign/ frequency/ channel/ language	Hours of applicability	Remarks
1	2	3	4	5	6	7	8
Barkston Heath 525746.74N 0003337.16W	367	Radius: 3 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	058 2 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Cranwell CRANWELL APRROACH 124.455 English	—	—
Benson 513654.14N 0010545.05W	203	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	008 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	188 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Benson BENSON ZONE 120.900 MHz English	—	—
Boscombe Down 510911N 0014504W	407	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	050 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	230 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Boscombe Down BOSCOMBE ZONE 126.705 English	—	If Boscombe Down is closed but Middle Wallop remains open, a CMATZ penetration service will be provided by Wallop Approach on 126.705.
Coningsby 530535N 0000958W	24	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	252 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Coningsby CONINGSBY APPROACH 119.205 MHz English	—	—
Cranwell 530147.04N 0002933.91W	222	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	263 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Cranwell CRANWELL APPROACH 124.455 English	—	—
Culdrose 500507.43N 0051514.66W	268	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	293 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Culdrose CULDROSE APPROACH 134.055 English	—	Culdrose Combined MATZ is formed with the Predannack MATZ, based on the Culdrose QFE.
Fairford 514101N 0014725W	285	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	268 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Brize Norton BRIZE ZONE 119.005 English	NOTAM or Supplement	This aerodrome is open on very limited occasions when advised by NOTAM or Supplement.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

MATZ Designation/ Mid-point of Longest Runway	AD Elevation (FT) (AMSL)	MATZ Core Radius/Limits	1st Stub Heading °T to AD/ Distance/ Limits	2nd Stub Heading °T to AD/ Distance	Controlling Aerodrome/ ATS unit callsign/ frequency/ channel/ language	Hours of applicability	Remarks
Lakenheath 522433.85N 0003339.64E	32	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	056 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	236 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Lakenheath LAKENHEATH RADAR 128.900 MHz English	—	Helicopters tasked to operate in EGD208 are required to call Lakenheath ATC to notify intended entry to EGD208 prior to penetrating the CMATZ. No restrictions will be imposed by Lakenheath on helicopters which operate within that portion of their north-easterly stub which is also within the lateral limits of EGD208, provided that the aircraft remain at or below 800 FT AMSL. Within the Lakenheath/ Mildenhall MATZ the pressure setting used will be the Lakenheath QNH.
Leeming 541733N 0013207W	132	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	156 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Leeming LEEMING ZONE 133.380 English	—	—
Leuchars 562229.61N 0025131.61W	38	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	082 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	262 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Leuchars LEUCHARS RADAR 126.505 English	—	—
Lossiemouth 574223.97N 0032016.40W	40	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	224 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Lossiemouth LOSSIE RADAR 119.575 MHz English	—	—
Marham 523854N 0003302E	76	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	057 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	237 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Marham MARHAM ZONE 124.155 English	—	—
Merryfield 505747.29N 0025619.73W	144	Radius: 3 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	—	—	Yeovilton YEOVIL RADAR 127.355 English	—	—

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

MATZ Designation/ Mid-point of Longest Runway	AD Elevation (FT) (AMSL)	MATZ Core Radius/Limits	1st Stub Heading °T to AD/ Distance/ Limits	2nd Stub Heading °T to AD/ Distance	Controlling Aerodrome/ ATS unit callsign/ frequency/ channel/ language	Hours of applicability	Remarks
Middle Wallop 510827.54N 0013421.62W	297	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	256 3 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Boscombe Down BOSCOMBE ZONE 126.705 English	—	Non-standard reference point aligned with common radar touchdown point. If Boscombe Down is closed but Middle Wallop remains open, a CMATZ penetration service will be provided by Wallop Approach on 126.705.
Mildenhall 522142.96N 0002911.06E	34	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC See Remark	103 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL See Remark	283 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL See Remark	Lakenheath LAKENHEATH RADAR 128.900 MHz English	—	Non-standard extension to both stubs - 5 NM south of extended centre-lines. Non-standard demarcation of the 5 NM circles which are joined by a straight line at their most easterly points. Within the Lakenheath/ Mildenhall MATZ the pressure setting used will be the Lakenheath QNH.
Mona 531533.48N 0042226.44W	202	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	—	—	Valley VALLEY RADAR 125.230 English	—	—
Odiham 511403.09N 0005634.11W	405	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	093 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Odiham ODIHAM APPROACH 131.305 English	—	Odiham Approach, except weekends and PH, when the task may be carried out by Farnborough on Frequency 125.250 MHz. Within the Odiham MATZ the transit pressure setting will be the Farnborough QNH.
Predannack 500006N 0051355W	299	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	—	—	Culdrose CULDROSE APPROACH 134.055 English	—	Predannack MATZ forms part of the Culdrose Com-bined MATZ, based on the Culdrose QFE.
Shawbury 524737N 0024004W	248	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	180 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	360 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Shawbury SHAWBURY ZONE 133.155 English	—	—

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

MATZ Designation/ Mid-point of Longest Runway	AD Elevation (FT) (AMSL)	MATZ Core Radius/Limits	1st Stub Heading °T to AD/ Distance/ Limits	2nd Stub Heading °T to AD/ Distance	Controlling Aerodrome/ ATS unit callsign/ frequency/ channel/ language	Hours of applicability	Remarks
Ternhill 525223.38N 0023155.89W	285	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	—	—	Shawbury SHAWBURY ZONE 133.155 English	—	Weekend and out of hours, freecall Ternhill Radio for aerodrome information freq 122.100 MHz.
Topcliffe 541220.26N 0012253.86W	91	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	—	—	Leeming LEEMING ZONE 133.380 English	—	—
Valley 531453.40N 0043207.20W	37	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	130 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Valley VALLEY RADAR 125.230 English	—	—
Waddington 530958N 0003126W	230	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	202 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	—	Waddington WADDINGTO N ZONE 119.505 MHz English	—	—

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

MATZ Designation/ Mid-point of Longest Runway	AD Elevation (FT) (AMSL)	MATZ Core Radius/Limits	1st Stub Heading °T to AD/ Distance/ Limits	2nd Stub Heading °T to AD/ Distance	Controlling Aerodrome/ ATS unit callsign/ frequency/ channel/ language	Hours of applicability	Remarks
Warton 534442N 0025300W	54	See Remark	See Remark	See Remark	Warton WARTON RADAR 129.530 MHz English	—	Non-standard MATZ with the following dimensions: Lateral - A rectangle of airspace, 20 NM x 6 NM. The major axis is centred on the Aerodrome Reference Point (ARP), aligned with the major runway headings 071° (T)/ 251° (T) and off-set 1 NM to the south. Vertical - The portion of the rectangle contained within the part circle radius 5 NM centred on the ARP extends from the surface to 3000 FT AAL. The remainder extends from 1000 FT AAL to 3000 FT AAL. Warning - The northern sector of the ATZ is not wholly contained within the MATZ. Within the Warton MATZ the pressure setting will be the Warton QNH.
Wattisham 520738N 0005723E	283	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	048 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	228 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Wattisham WATTISHAM APPROACH 125.800 MHz English	—	—
Wittering 523647.00N 0002833.26W	274	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	073 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	253 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Wittering WITTERING ZONE 119.680 English	—	Caution: Unlit aircraft operate at night.
Yeovilton 510029.77N 0023843.77W	75	Radius: 5 NM Upper Limit: 3000 FT AGL Lower Limit: SFC	083 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	263 5 NM Upper Limit: 3000 FT AGL Lower Limit: 1000 FT AGL	Yeovilton YEOVIL RADAR 127.355 English	—	—

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3 SHANWICK OCEANIC OPERATIONS

3.1 Areas within the Shanwick Oceanic Control Area where the provision of ATS has been delegated

Name	Lateral Limits	Vertical Limits and Classification	Controlling Authority
Northern Oceanic Transition Area (NOTA)	DOGAL (540000N 0150000W) - SUNOT (570000N 0150000W) following the line of latitude to - GOMUP (570000N 0100000W) - 543400N 0100000W - DOGAL (540000N 0150000W).	UNL ——— FL 55 Class A	Shannon ACC.
Shannon Oceanic Transition Area (SOTA)	DINIM (510000N 0150000W) following the line of latitude to - LESLU (510000N 0080000W) - 483000N 0080000W - BEDRA (490000N 0150000W) - DINIM (510000N 0150000W).	UNL ——— FL 55 Class A	Shannon ACC.
Brest Oceanic Transition Area (BOTA)	483428N 0084500W - 483000N 0080000W - 450000N 0080000W following the line of latitude to - 450000N 0084500W - 483428N 0084500W.	UNL ——— FL 55 Class A	Brest ACC.

3.2 Air Traffic Service

Regional Supplementary Procedures DOC 7030.

3.2.1 Air Traffic Service for the Shanwick OCA is provided by the Oceanic Area Control centre at Prestwick supported by the communications station at Ballygirreen near Shannon, Ireland. The callsign SHANWICK will be used.

3.2.2 Aircraft operating along tracks through successive points on the northern or southern boundaries of Gander and Shanwick OCAs will be provided with Air Traffic Services by Gander or Shanwick as appropriate.

3.2.3 Air Traffic Service in the NOTA and SOTA is provided by Shannon Area Control Centre, using the callsign ‘SHANNON’. Full details of the service provided and the procedures used are contained in AIP Ireland.

3.2.4 Air Traffic Service in the BOTA is provided by Brest Area Control Centre, using the callsign ‘Brest Control’. Full details of the service provided and the procedures used are contained in AIP France.

3.3 Flight Rules

Annex 2, Annex 11 and Regional Supplementary Procedures DOC 7030.

3.3.1 Flight shall be conducted in accordance with the Instrument Flight Rules (even when not operating in Instrument Meteorological Conditions) when operated within the Shanwick OCA.

3.3.2 Clearances to climb or descend maintaining own separation while in Visual Meteorological Conditions shall not be issued.

3.3.3 **Rules Applicable to all IFR flights**

3.3.3.1 ARINC 424

3.3.3.1.1 NAT operators should use a full latitude/longitude (e.g., 13-character) input for waypoints containing both half-degree and whole degrees of latitude and whole degrees of longitude.

3.3.3.1.2 NAT operators with an operational need to populate the aircraft NDB with a 5-character waypoint identifier should use the established ARINC 424 "H" format for half-degrees of latitude such as Hxxyy, where xx = degrees and 30 minutes of NORTH latitude and yy = degrees of WEST longitude (e.g., H5250 = 52°30' NORTH 050°00' WEST).

3.3.3.1.3 It is recognized that, for whole degree waypoint inputs, such operators will likely continue using the ARINC 424, 7.2.5 "N-suffix" format (e.g., 5250N = 52°00' NORTH 050°00 WEST). It is recommended that insertion of waypoints into the FMC be accomplished by established automated data link systems (e.g. AOC and CPDLC) wherever possible.

3.3.3.1.4 Regardless of FMC waypoint format and entry method, flight crew procedures should require each pilot to independently display and verify the DEGREES and MINUTES loaded into the FMC for the latitude/longitude waypoints defining the route contained in the NAT oceanic clearance to mitigate potential display ambiguity.

3.3.3.1.5 ATC CPDLC route clearance uplinks will be in a full Lat/Long format and will require those operators using ARINC 424 and the "H"

format to ensure their flight crews are trained to display and verify the full Lat/Longs of any uplink.

3.4 Separation of Aircraft within the Shanwick OCA

Regional Supplementary Procedures DOC 7030.

3.4.1 Separation, including radar separation, of aircraft within the NOTA and SOTA will be to standards defined by the Irish ATC authorities. Separation, including radar separation, of aircraft within the BOTA will be to standards defined by the French ATC Authorities.

3.4.2 Reduced Vertical Separation Minima (RVSM) applies within the Shanwick OCA between FL 290 and FL 410 inclusive. Aircraft wishing to fly within this level band must meet the RVSM requirements.

3.4.3 The French and Irish Authorities respectively designate the BOTA and NOTA/SOTA airspace between FL 290 and FL 410 inclusive for the purpose of transitioning non-RVSM approved aircraft operating to and from the North Atlantic Region.

3.5 NAT Organized Track System (NAT OTS)

Regional Supplementary Procedures DOC 7030.

3.5.1 Organized tracks are formulated and published as an AFTN Track Structure Message. The day-time structure, valid from 1130 UTC until 1900 UTC at 030°W is published by Shanwick, and the night-time structure, valid from 0100 UTC until 0800 UTC at 030°W by Gander.

3.5.2 All NAT Operators shall provide Company Preferred Route information providing Shanwick with the number of jet flights and routes likely to be requested during each of the main traffic periods, eg westbound flights crossing 030°W between 0800 and 1900 UTC and eastbound flights crossing 030°W between 2200 and 0900 UTC.

3.5.2.1 Shanwick can accept airlines Company Preferred Route information for westbound flights in two formats; The Preferred Route Message format (PRM) or alternatively a Flight Plan day minus 1 format (FPL-1).

3.5.2.2 Operators wishing to submit Company Preferred Route information via Flight Plan day minus 1 format (FPL-1) are required to pre-register by email at CPR@nats.co.uk before doing so.

3.5.2.3 The westbound PRM or FPL-1 is to be sent no later than 1900 UTC and the eastbound PRM no later than 1000 UTC. The format of the PRM, FPL-1 and the AFTN addresses to which they are to be sent are contained at ENR 2.2, paragraphs 3.24, 3.25 and 3.26.

3.5.3 The most northerly Track of a day Organized Track System (OTS) is designated as NAT Track Alpha, the adjacent Track to the south as NAT Track Bravo etc. In the case of the structure published for night use the most southerly Track is designated Zulu, the adjacent Track to the North is designated Yankee, etc.

3.5.4 Flight levels are allocated for use within the Track structure to make optimum use of the available airspace.

3.5.5 Pilots are encouraged to flight plan on published NAT tracks, when appropriate, although it is not mandatory to do so.

3.5.6 To permit an orderly change-over between successive OTSs a period of several hours is interposed between the termination of one system and the commencement of the next. During these periods, operators are expected to file random flight plans or use the co-ordinates of a track in the system about to come into effect. Appropriate flight planning levels are contained in the tables in paragraph 3.6.13.2. In all cases of doubt, advice should be sought by telephone from the appropriate OAC supervisor.

3.6 Flight Plans

Annex 2, Regional Supplementary Procedures DOC 7030 and PANS Doc 4444 ATM/501.

3.6.1 Pilots and operators are advised that as Shanwick is within the IFPS area, they are to ensure that all flight plans routing via the Shanwick Area of Responsibility are addressed to both EUCHZMFP and EUCBZMFP.

3.6.2 Submission of a Flight Plan advises ATC of the pilot's intent and the aircraft/pilot capabilities and authorisations (UK Flight Planning Guide CAP 694). ATC clearances are provided consistent with these capabilities and it is important that the content of the Flight Plan is correct.

Within the Flight Plan the PBN descriptors used in Item 10 – 'Equipment' indicates that:

a) Designated equipment fitted to the aircraft is serviceable.
b) Flight Crew are qualified for the intended operation.
c) The AOC holder holds the required navigation authorisations.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

It should be noted that for routes T9 and T290 there is currently no ICAO code for use within the Flight Plan to declare RNP2 capability, therefore (and in conformance with CAP 694) aircraft with RNP2 capability should submit the following descriptors within Item 10 – 'Equipment' and Item 18 – 'Other Information' as a minimum when operating via T9 or T290:

Field 10 – Equipment and Capabilities						
G	H	I (Note)	R	W	Y	Z
GNSS	HF RTF	Inertial Navigation	PBN Approved	RVSM Approved	VHF with 8.33 kHz	Other Equipment

Note: *T9 and T290 are designated with a navigational specification of RNP2 and are further designated as Continental/Offshore for the purposes of contingency requirements.*

Field 18 – Other Information
NAV/RNP2

3.6.3 For flights conducted along one of the organized tracks from the entry point into the NAT Flight Information Regions to the exit point, the organized track shall be defined in the flight plan by the abbreviation 'NAT' followed by the code letter assigned to the track. For flights wishing to join or leave an organized track at some point between entry and exit fixes, full track details should be specified in the flight plan, the track letter should not be used to abbreviate any portion of the route in these circumstances.

3.6.4 Flights planned wholly or partly outside the organized tracks shall be planned along great circle tracks joining successive significant points. The latitude and longitude of each designated reporting line (eg 010W, 020W, 030W, 040W, 050W, 060W, Fishpoint and landfall), should be entered in Item 15 of the flight plan.

3.6.5 ATS requires flights entering or exiting the Gander OCA to flight plan in accordance with the published NAT OTS or, if exiting the Gander OCA by way of 58°N 050°W and south thereof, via the following named points and associated 050°W coordinates:

- CUDDY DCT 58N 050W (Midwest Traffic)
- DORYY DCT 58N 050W (Eastern Seaboard Traffic)
- ENNSO DCT 5730N 050W
- HOIST DCT 57N 050W
- IRLOK DCT 5630N 050W
- JANJO DCT 56N 050W
- KODIK DCT 5530N 050W
- LOMSI DCT 55N 050W
- MELDI DCT 5430N 050W
- NEEKO DCT 54N 050W
- PELTU DCT 5330N 050W
- RIKAL DCT 53N 050W
- SAXAN DCT 5230N 050W
- TUDEP DCT 52N 050W
- UMESI DCT 5130N 050W
- ALLRY DCT 51N 050W
- BUDAR DCT 5030N 050W
- ELSIR DCT 50N 050W
- IBERG DCT 4930N 050W
- JOOPY DCT 49N 050W
- MUSAK DCT 4830N 050W
- NICSO DCT 48N 050W
- OMSAT DCT 4730N 050W
- PORTI DCT 47N 050W
- RELIC DCT 4630N 050W
- SUPRY DCT 46N 050W
- RAFIN DCT 45N 050W
- BOBTU DCT 44N 050W

3.6.6 Estimated Times

3.6.6.1 For flights conducted in the NAT, the accumulated estimated elapsed times to each oceanic FIR boundary shall be specified in Item 18 of the flight plan, following the EET/indicator.

3.6.6.2 For flights entering Shanwick OCA directly from the SOTA, the Estimated Elapsed Time (EET) for the Shanwick Boundary filed in Item 18 of the flight plan is to be the EET for the point of crossing the Shanwick/SOTA Boundary (RODEL/SOMAX/BEDRA/ KOGAD/OMOKO/TAMEL or LASNO).

3.6.6.3 For flights entering Shanwick OCA directly from the BOTA, the EET for the Shanwick Boundary filed in Item 18 of the flight plan is

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

to be the EET for the point of crossing the Shanwick/BOTA Boundary (ETIKI/UMLER/SEPAL/BUNAV or SIVIR).

3.6.6.4 For flights exiting Shanwick OCA directly to the SOTA, the EET for the Shannon Boundary filed in Item 18 of the flight plan is to be the EET for the point of crossing the Shanwick/SOTA Boundary (RODEL/SOMAX/BEDRA/KOGAD/OMOKO/TAMEL or LASNO).

3.6.6.5 For flights exiting Shanwick OCA directly to the BOTA, the EET for the Brest Boundary filed in Item 18 of the flight plan is to be the EET for the point of crossing the Shanwick/BOTA Boundary (ETIKI/UMLER/SEPAL/BUNAV or SIVIR).

3.6.6.6 For flights entering Shanwick OCA directly from the NOTA, the EET for the Shanwick Boundary filed in Item 18 of the flight plan is to be the EET for the point of crossing the Shanwick/NOTA Boundary (VENER/RESNO/ETARI/PIKIL/BILTO/SUNOT or AGORI).

3.6.6.7 For flights exiting Shanwick OCA directly to the NOTA, the EET for the Shannon Boundary filed in Item 18 of the flight plan is to be the EET for the point of crossing the Shanwick/NOTA Boundary (VENER/RESNO/ETARI/PIKIL/BILTO/SUNOT or AGORI).

3.6.7 Flights Routing to/from GOMUP (57N 010W)

3.6.7.1 Flights will not be cleared to route along 57N between GOMUP (57N 010W) and SUNOT (57N 015W). Flights to/from GOMUP routing to/from 020W will be required to cross 020W at or north of 58N.

3.6.8 The designated reporting lines within the Shanwick OCA are:

For flights Europe — North America	Eastern boundary of the OCA, and longitudes 02000W and 03000W.
For flights Europe — Iceland	01000W and latitude 6100N (RATSU).
For flights Europe — Azores	00845W and latitude 4500N.

3.6.9 MACH Numbers

3.6.9.1 Jet aircraft intending to operate in the Shanwick OCA must indicate the MACH number planned to be used for any portion of the flight within the area in Item 15 of the flight plan.

3.6.9.1.1 Jet aircraft should indicate their proposed speeds in the following sequence:

a) Cruising speed (TAS) in knots;
b) Oceanic Entry Point and cruising MACH number;
c) Landfall Fix and cruising speed (TAS) in knots.

3.6.9.2 All other aircraft: speed in terms of TAS in knots or MACH number.

3.6.10 Minimum Navigation Performance Specification (MNPS)

3.6.10.1 If the flight is certified as being in compliance with Minimum Navigation Performance Specifications (MNPS) and intends to operate in the North Atlantic High Level Airspace (NAT HLA) for any portion of the flight, the letter ‘X’ shall be inserted after the letter ‘S’ in item 10 of the flight plan to indicate that the flight has been approved for operations within the NAT HLA. It is the captain’s responsibility to ensure that specific approval has been given for such operations by the State of Registry of either the aircraft or of the operator. See paragraph 3.18.1 (Application of MNPS in Shanwick OCA).

3.6.11 **North Atlantic Data Link Services**

3.6.11.1 ICAO document 10037, “Global Operational Data Link (GOLD) Manual”, North Atlantic Airspace and Operations Manual DOC 007

The NAT Data Link Mandate (NAT DLM) for Data Link Services applies within the Shanwick OCA between Flight Levels 290 and 410 inclusive and requires that aircraft have fitted and operate FANS 1/A equipment, i.e. FANS 1/A CPDLC and ADS-C.

CPDLC and ADS-C service is available throughout the whole of the Shanwick OCA.

Flights equipped with and prepared to operate FANS 1/A (or equivalent) CPDLC and ADS-C data link systems will be permitted to flight plan to enter the NAT DLM airspace, (NAT Regional Supplementary Procedures (ICAO Doc 7030) paragraphs 3.3.2 and 5.4.2 apply for CPDLC and ADS-C respectively).

Certain non-equipped flights, as noted below, may flight plan to enter mandated airspace, however such flights may not receive their requested profile which fully corresponds to the filed flight plan.

3.6.11.2 These procedures are applicable to all FANS 1/A flights that are required, or wish to, participate in NAT DLM Data Link Services.

The FANS data link log-on address for the Shanwick OCA is EGGX.

For correct functioning of FANS data link the aircraft identification entered in the avionics must be precisely the same as that contained in the filed flight plan. This should be confirmed by the flight crew prior to log-on.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.6.11.3 FANS 1/A equipped flights are permitted to enter the mandated airspace if the flight plan indicates in Item 10:

a) D1 (ADS-C with FANS 1/A capabilities); and
b) J5 (CPDLC FANS 1/A SATCOM (INMARSAT)); and/or
c) J7 (CPDLC FANS 1/A SATCOM (Iridium)).

Non-FANS 1/A equipped flights are permitted to enter the mandated airspace if the flight plan indicates in Item 18:

a) STS/FFR; or
b) HOSP; or
c) HUM; or
d) MEDEVAC; or
e) SAR; or
f) STATE.

3.6.11.4 Any aircraft not equipped with FANS 1/A (or equivalent) systems may request a continuous climb or descent, without intermediate level off, through the mandated airspace. Such requests will be considered on a tactical basis.

Altitude Reservation (ALTRV) requests will be considered on a case by case basis irrespective of the equipage status of the participating aircraft.

NAT DLM restrictions are not applicable to aircraft experiencing a contingency situation.

3.6.11.5 Flights that experience an equipment failure prior to departure which renders the aircraft non-DLM compliant should re-submit a flight plan to remain clear of mandated airspace.

Flights that experience an equipment failure after departure but before entry to mandated airspace which renders the aircraft unable to operate FANS 1/A (or equivalent) CPDLC and/or ADS-C systems must notify ATC of their status prior to entering the airspace. Such flights may be approved to operate in the airspace subject to tactical considerations.

Flights that experience a FANS 1/A data link equipment failure while the flight is operating within NAT DLM airspace must immediately advise ATC. Such flights may be allowed to continue within the airspace subject to tactical considerations.

3.6.11.6 ATS Surveillance Service utilising ADS-B is available to suitably equipped flights throughout the Shanwick OCA. Service is enabled by ADS-B equipment hosted in a network of earth satellites.

ADS-B use is mandatory for flights operating on routes T9 and T290 to facilitate access to these routes by certain aircraft unable to comply with the NAT DLM. These routes are designated continental/offshore; see 3.18.1.8 below and ENR 3.5 'Other Routes' for further details.

Participating flights benefit from enhanced flight monitoring and the application, where appropriate, of surveillance separation minima.

Summary of Data Link, Navigational and Communications provisions in the Shanwick High Level Airspace.

Note: *Detailed Communications requirements can be found at 3.9 below.*

Shanwick HLA (FL 290 – FL 410) Data Link, Navigational and Communications Requirements BOTA (Note 1) and SOTA (Note 2)									
Route Type	HF	CPDLC	ADS-C	RSP180	RNP4	RCP240	RNP10	ADS-B (Note 3)	RNP2 (Note 4)
PBCS OTS Track	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Non-PBCS OTS Tracks and Random Routes	Yes	Yes	Yes	No	No	No	Yes	No	No
T9 and T290	Yes	No	No	No	No	No	Yes	Yes	Yes
Note 1: *Brest Oceanic Transition Area – see AIP France.* ***Note 2:*** *Shannon Oceanic Transition area – See AIP Ireland.* ***Note 3:*** *ADS-B with dedicated 1090 MHz out capability.* ***Note 4:*** *T9/T290 RNP2 designation is continental/offshore utilising ADS-B with VHF voice available.* ***Note 5:*** *With the exception of HF radio these requirements do not apply outside NAT HLA.*									

3.6.11.7 **Uplink Message Latency Monitor Function**

3.6.11.7.1 Set Timer

3.6.11.7.1.1 The uplink message latency monitor function is designed to prevent pilots from acting on a CPDLC uplink message that has been delayed in the network. Approximately 5 minutes after entering Shanwick Oceanic airspace, equipped flights will receive a message advising crews to set the latency timer: "SET MAX UPLINK DELAY VALUE TO 300 SEC".

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.6.11.7.1.2 When the pilot receives the uplink CPDLC message "SET MAX UPLINK DELAY VALUE TO 300 SEC" he/she shall;

a) Send a positive response to ATC as prompted by the avionics (ACCEPT [ROGER]) regardless of whether the aircraft supports the latency monitor.

Note 1: *It is important that pilots respond to the "SET MAX UPLINK DELAY VALUE TO 300 SEC" uplink message to avoid having open unanswered CPDLC messages in the system. This also applies to aircraft that have deficient message latency monitor functionality or no such functionality at all.*

Note 2: *The Global Operational Data Link Manual specifies that the pilot should append the response downlink with the free text message "TIMER NOT AVAILABLE" when the message latency monitor function is not available in the aircraft.*

b) If the aircraft is equipped with a correctly functioning message latency monitor, enter the specified uplink delay into the avionics in accordance with the aircraft procedures. Some avionics will automatically set the delay value in accordance with the uplink message and do not allow for a manual input.

Note 1: *If an aircraft is instructed to log off and then log on again mid-flight, ATC may send the message "SET MAX UPLINK DELAY VALUE TO 300 SEC" again once the logon is completed.*

3.6.11.7.2 Delayed CPDLC Uplink Message

3.6.11.7.2.1 When a pilot receives a CPDLC uplink message with an indication that the message has been delayed the pilot shall:

a) Revert to voice communications to notify the ATS unit of the delayed message received and to request clarification of the intent of the CPDLC message; and
b) Respond appropriately to close the message as per the instructions of the controller.
c) The pilot must not act on the delayed uplink message until clarification has been received from the controller.

3.6.12 Reduced Vertical Separation Minima (RVSM)

3.6.12.1 If the flight is certified as being in compliance with the Minimum Aircraft System Performance Specification (MASPS) and intends to operate in RVSM Airspace for any portion of the flight, the letter 'W' shall be inserted after the letter(s) 'S' and 'X' (if applicable) in Item 10 of the flight plan to indicate that the flight has been approved for operations within RVSM Airspace. It is the Captain's responsibility to ensure that specific approval has been given for such operations by the State of registry of either the aircraft or the operator. See Paragraph 3.18.2 (Application of RVSM in Shanwick OCA).

3.6.13 **Flight Level Allocation Scheme (FLAS)**

3.6.13.1 Operators should use the Flight Level Allocation Scheme (FLAS) for flight planning guidance.

3.6.13.2 The Flight Level allocations under FLAS are:

FL 430	May be Flight Planned for both eastbound and westbound non-RVSM certified aircraft.
FL 410	Eastbound FL.
FL 310, 320, 340, 360, 380, 400	Westbound FL (except within Eastbound OTS).
FL 330, 350, 370, 390	Eastbound FL (except within Westbound OTS).
FL 300 and below	Even FLs westbound. Odd FLs eastbound.

3.6.13.3 Operators are permitted to file flight plans at any flight level for a route which is wholly contained within the routing structure of T13, T16 and T213, however flight planning requirements apply to T9 and T290 (see ENR 3.5 Other Routes).

Operators are reminded that T13, T16 and T213 are included in the DLM.

3.6.13.4 To accommodate significant single direction demand during OTS times, OACs may exchange Flight Levels on a tactical basis. This allows additional profiles for main direction flow.

3.6.13.5 During OTS times, aircraft intending to use the OTS may Flight Plan levels which are allocated to the published OTS.

Additionally, to accommodate demand:

During the eastbound OTS, eastbound non-OTS aircraft may Flight Plan at FL 340 or FL 380.

During the westbound OTS, westbound non-OTS aircraft may Flight Plan at FL 330.

3.6.13.6 Unless suitable eastbound Tracks exist, during the eastbound OTS times, eastbound traffic originating in New York OAC, planned to enter Shanwick OAC, is recommended to Flight Plan as follows:

a) FL 310 or FL 340 and restrict routing to landfall BEDRA or south.
b) FL 310, FL 340 or FL 380, and restrict routing to landfall either: BEDRA or south, or to remain south of the OTS, whichever is further south.

3.6.13.7 During the westbound OTS, track and random westbound aircraft, flight planned to enter Shanwick and Gander airspace which

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

landfall at or north of AVUTI, should not flight plan at FL 340. FL 340 is reserved for flights routing between Reykjavik OAC and Gander OAC.

3.6.13.8 For aircraft opposing the main flows during OTS periods, operators should Flight Plan optimum levels, in accordance with the direction of flight. ATC will endeavour to accommodate any requested levels, however priority will be given to main flow traffic.

3.6.13.9 If a flight is expected to be level critical, Operators should contact the initial OAC prior to filing the flight plan to determine the likely availability of such level(s).

3.6.13.10 Request for a suitable alternative flight level may be included in Item 18 of the flight plan.

3.6.13.11 Flight plans for flights departing from points within adjacent regions and entering the NAT Region, without intermediate stops, should be submitted at least 3 hours prior to departure. For addressing of Flight Plan messages see ENR 1.11.

3.6.13.12 Flight Plans for flights through NOTA/SOTA Airspace by aircraft not equipped with VHF RTF are to be annotated, in Item 18, COM/ UHF only.

3.7 Send an ’RCL’

’RCL’: Voice, or data link message via ACARS, used to provide ETA at Oceanic Entry Point (OEP), requested flight level, and Mach.

Annex 11 and PANS Doc 4444 ATM/501.

3.7.1 Aircraft entering Shanwick OCA from domestic airspace are required to send an ’RCL’ to Shanwick using one of the methods indicated in paragraph 3.8.

3.7.1.1 For Westbound aircraft routing via RATSU (61N 010W), see paragraph 3.8.3.

3.7.1.2 Aircraft entering Shanwick OCA from an adjacent OCA will normally receive approval for their level, route and speed by the authority controlling the adjacent OCA.

3.7.2 Aircraft which have filed a flight plan using a MACH number are permitted to fly at normal speed at the MACH number in the filed flight plan. Any changes to speed shall be issued on entering Shanwick airspace. After leaving Oceanic Airspace aircraft should maintain their assigned MACH number in domestic airspace unless the appropriate ATC unit authorises a change.

3.7.3 It is essential that the ETA within the ’RCL’ is correct. If the estimate for the Oceanic Boundary last reported to Shanwick is found to be in error by 3 minutes or more, flights must transmit a revised estimate to Shanwick, as soon as possible.

3.7.4 Flights that experience or suspect GNSS interference en-route to the Shanwick OEP shall notify Shanwick ATC in the RCL.

3.7.5 Notification should be included in the RCL message via ACARS or voice, confirming degradation of navigation status and detail of ongoing loss/impacts to the aircraft systems and capabilities.

Examples of RCL 'ATC REMARKS/' text:

- 'GNSS INTERFERENCE RNP10 ONLY'
- 'NO DATA LINK'
- 'DEGRADED NAVIGATION NO GNSS'

3.7.6 In addition, operators can also make Shanwick aware when one of their flights has been impacted by GNSS interference through direct contact.

3.7.7 **Abbreviated Route Amendments**

3.7.7.1 Upon receipt of the ACARS Data Link ’RCL’, any route amendment to the current flight plan (what is loaded in the FMS) will be issued by voice.

3.7.7.2 An abbreviated route amendment is issued when an aircraft is rerouted onto a NAT TRACK or when there is a change to one coordinate only. In all other circumstances full details of the cleared route will be given.

3.7.7.3 A pilot-in-command shall, if at any time in doubt, request a detailed description of the cleared route from ATS.

3.7.8 **Identification of Track Structure Message**

3.7.8.1 Shanwick OAC will identify each Westbound NAT Track Structure Message by using a 3 digit Track Message Identification number (TMI) in the remarks section of the Track Structure Message.

Example: Remarks: Trk Message Ident 283.

3.7.8.2 Gander and Shanwick OACs will generate a revised TMI number only when the change is to:

a) Any NAT Track co-ordinate including named positions;
b) NAT Track published levels;
c) Named Points within European Routes West; or
d) Any combination of (a), (b) or (c).

Note: *Both centres will continue to publish revisions regarding other items such as North American Routings (NARS), but revisions outside the above listed categories will not warrant a change to the TMI.*

3.7.8.3 Amendments will be identified by adding an Alpha character to the TMI number for each revision.

Example: (Remarks amended) Remarks: Amended Track Message Ident 283 A, B, C etc.

3.7.9 **Reroutes on to NAT Tracks**

3.7.9.1 Flights will receive reroutes on VHF or HF radio. If the aircraft is rerouted to follow an organised track an abbreviated routeing will be issued and the pilot must confirm the Track Message Identification number (TMI). If the pilot cannot correctly identify the Track Message Identification, Shanwick will read the approved NAT Track coordinates in full and request a full read back of those coordinates.

3.8 'RCL' Requests

3.8.1 **Westbound Aircraft (Apart from Traffic as detailed in paragraph 3.8.2)**

3.8.1.1 Westbound aircraft operating within the United Kingdom UIR/FIR and the northern part of the France UIR should submit an 'RCL' by voice to 'Shanwick Oceanic' on VHF RTF. VHF coverage is contained within an area joined by the following points: 48N 010W - RATSU (61N 010W) - 61N 005W - 52N 004E - 48N 004W - 48N 010W. An 'RCL' request should be submitted when an accurate boundary estimate can be calculated, and submitted between 30 and 90 minutes prior to the Oceanic boundary ETA. United Kingdom departures are to submit an 'RCL' as soon as possible after departure. Aircraft overflying the United Kingdom UIR/FIR and the northern part of the France UIR are to submit an 'RCL' when they consider that they are within the area specified above. Aircraft other than jet should submit an 'RCL' at least 40 minutes before the ETA for the OCA entry point.

3.8.1.1.1 For Westbound aircraft routing via RATSU (61N 010W), see paragraph 3.8.3.

3.8.1.2 Aircraft unable to contact 'Shanwick Oceanic' on VHF should submit an 'RCL' by voice on a NARTEL HF frequency (North Atlantic en-route HF RTF Network) at least 40 minutes before the ETA for the Oceanic Boundary and thereafter maintain a SELCAL watch for the 'RCL' confirmation response message.

3.8.1.3 Aircraft Communication Addressing and Reporting System (ACARS) equipped aircraft may submit an 'RCL' and receive their 'RCL' confirmation response message via datalink, for entry points on the Shanwick eastern boundary (from LUSEN to PASAS), without the requirement to contact Shanwick on RTF. This system should not be used by aircraft within 30 minutes of the Shanwick boundary; instead, VHF or HF RTF should be used.

3.8.1.4 While in communication with Shanwick to submit an 'RCL', aircraft must also maintain communication with the ATC authority for the airspace within which they are operating. Aircraft unable to contact Shanwick on VHF or on NARTEL HF should request the ATC authority for the airspace in which they are operating to relay their 'RCL' to Shanwick.

3.8.1.5 Aircraft entering Shanwick directly from the Madrid FIR/UIR should operate the procedures in paragraphs 3.8.1.2 and 3.8.1.4 at least 40 minutes before the ETA for 45N.

3.8.1.6 'RCL's shall include:

a) Callsign;
b) OCA entry point and ETA;
c) requested MACH number and flight level;
d) any change to flight plan affecting OCA;
e) the highest acceptable flight level which can be maintained at the OCA entry point.

Note: *'Entry Points' are the boundary position between Shanwick OCA and domestic airspace, ie for SOTA these are: RODEL, SOMAX, KOGAD, BEDRA, OMOKO, TAMEL or LASNO, for BOTA these are: ETIKI, UMLER, SEPAL, BUNAV or SIVIR and for NOTA these are: VENER, RESNO, ETARI, PIKIL, BILTO, SUNOT or AGORI.*

Example of 'RCL'.
'Estimating SUNOT at One One Three One, Speed, Mach decimal eight zero, Flight Level three five zero, able Flight Level three six zero, second choice Track Charlie'.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

If the 'RCL' also includes a change to the original Flight Plan, affecting OCA:
'BAW 123; Estimating PIKIL at One One Four Seven, Speed, Mach decimal eight zero, Flight Level three four zero, Now Requesting Track Charlie, able Flight Level three six zero, second choice Track Delta'.

3.8.2 **Aircraft Sending an 'RCL' (Request for Clearance) before Departure**

3.8.2.1 Flights whose elapse time from departure to the Shanwick OEP (Oceanic Entry Point) is 30 minutes or less should submit an 'RCL' before departure on OCL, VHF, or HF. Only flights whose elapse time from departure to the Shanwick OEP is 30 minutes or less and who are unable to submit an 'RCL' before departure on OCL, VHF, or HF shall request via 3.8.2.2.

3.8.2.2 Flights who are unable to submit an 'RCL' before departure on OCL, VHF, or HF shall request by telephone to Shanwick on 01294-655100. This may be done by the handling agent, operating company, or Aerodrome ATC (at the request of the pilot) or by the crew. Shanwick will issue the 'RCL' confirmation response message, via AFTN, or telephone for relay to the crew.

3.8.2.2.1 If 'RCL' submission is not required prior to departure, pilots are reminded that they should request clearance between 90 and 30 minutes prior to the Shanwick boundary. Aircraft entering Shanwick directly from the Madrid FIR/UIR are reminded that they should submit an 'RCL' at least 40 minutes before the ETA for 45N, as outlined in paragraph 3.8.1.5.

3.8.2.3 **General**

3.8.2.3.1 An 'RCL' should be submitted when an accurate boundary estimate can be calculated, and submitted between 30 and 90 minutes prior to the Oceanic boundary ETA. Submitting an 'RCL' more than 90 minutes prior to the ETA may result in rejection of the 'RCL'.

3.8.2.3.2 The 'RCL' must contain an accurate boundary ETA, based on the expected ETD. Pilots are responsible for informing Shanwick to request a reclearance, as soon as possible, if the Shanwick boundary ETA changes by 3 minutes or more.

3.8.2.4 **OCL Equipped Aircraft Submitting an 'RCL' Before Take-off**

3.8.2.4.1 The free-text field of the 'RCL' should include the phrase, 'ETD <time><aerodrome name>', eg ETD 1137 EGAA.

3.8.2.5 **Voice Process**

3.8.2.5.1 The following phraseology is to be used:

a) 'RCL'
b) Flight Identification
c) Oceanic Entry Point and ETA
d) Requested Mach Number and Flight Level
e) Any change to the flight plan affecting OCA
f) 'ETD', Time, Aerodrome name - eg ETD 1137 EGPH.

3.8.2.6 **Reclearances**

3.8.2.6.1 Pilots should inform Shanwick as soon as possible, preferably before departure, if the Shanwick boundary ETA changes by 3 minutes or more or if a profile modification is required.

3.8.2.6.2 Pilots may input a second 'RCL' by ACARS, VHF, HF or via the method as per 3.8.2.2 if they wish to amend their request.

3.8.2.6.3 Shanwick may send a message via OCL or domestic asking the flight to contact Shanwick by voice. Pilots must contact Shanwick as soon as possible after the receipt of that message.

3.8.3 **Flights Routing via 6100N**

3.8.3.1 All aircraft entering the Reykjavik OCA at or above FL 55 via 6100N at or East of 01000W from Scottish Domestic Airspace are required to submit an 'RCL' to Reykjavik OAC, as detailed in AIP Iceland.

Note: *Flights routing via RATSU (6100N 01000W) are not required to submit an 'RCL' to Shanwick OAC. Therefore, aircraft intending to route via RATSU (6100N 01000W) must not contact Shanwick Clearance Delivery.*

3.8.3.2 ATC Procedures via 6100N (above FL 55)

3.8.3.2.1 An amended procedure for traffic between Scottish AC (Prestwick), Reykjavik OAC and Shanwick OAC in the vicinity of 6100N 01000W simplifies the ATC procedures used and makes use of reduced separation standards. A system of preferred routings is established between the Scottish UIR and the Reykjavik OCA as detailed below.

3.8.3.3 Routings

3.8.3.3.1 Dependent on anticipated traffic demands over the North Atlantic Area, Reykjavik OAC may establish NAT Tracks through the

following points along 61N:

RATSU;
MATIK;
NALAN;
OSBON;
PEMOS;
RIXUN;
SOSAR.

Note: *The tracks will be published by Shanwick OAC on behalf of Reykjavik OAC using the normal NAT Track promulgation method.*

3.8.4 **Time Keeping Procedures**

3.8.4.1 Prior to entry into Oceanic Airspace, the pilot shall synchronise the time reference system(s) to be used during the flight for the calculation of waypoint Actual Time of Arrival (ATA) and Estimated Time of Arrival (ETA) to an acceptable international time source. The pilot passing ATAs and ETAs to ATC is to ensure that they are based on a time reference system that has been properly synchronised.

3.8.4.2 Acceptable international time sources are:

a) **BBC** (United Kingdom, Greenwich) — H24 on 12095 kHz; 0200 - 2315 on 9410 kHz; 0430 - 0030 on 15070 kHz; 0800 - 1600 on 17705 kHz, 17640 kHz, 9760 kHz, 9750 kHz. Time is UTC and given every minute. within specified periods.
b) **Global Positioning System**, corrected to UTC.
c) **WWV** (USA Fort Collins, Colorado) — H24 on 2500 kHz, 5000 kHz, 10000 kHz, 15000 kHz, 20000 kHz (AM/SSB). Time is UTC and given every minute.
d) **CHU** (National Research Council (NRC), Canada) — H24 on 3330 kHz, 7335 kHz, 14670 kHz (SSB). Time is UTC and given every minute.

Note: *Aircraft Communications Addressing and Reporting Systems (ACARS) are not suitable time sources due to the unknown delay involved between the time that the update message is generated and when it is received by the ACARS equipment on the aircraft.*

3.9 Communications

3.9.1 Aircraft operating in the Shanwick OCA must be capable of maintaining direct two-way communication with the appropriate aeronautical radio stations. The carriage of NARTEL HF frequencies in the Shanwick OCA is mandatory. The appropriate frequencies and service areas are detailed in paragraph 3 9.12.

3.9.2 Flights planning to operate outside VHF coverage may request a waiver from the HF requirement, provided the flight has at least two other long-range communication systems appropriate for the route of flight and falls into one of the following categories:

- Air carriers with HF unserviceable wishing to return to base for repairs; or
- Ferry or delivery flights; or
- Special event flight.

Applications for HF Relief shall be made to the Shanwick Supervisor via email (shanwicksupervisors@nats.co.uk) giving a minimum 24 hours notice prior to entering the Shanwick OCA.

3.9.3 Pilots of aircraft equipped with VHF communications only, which are not eligible to request an HF Waiver as per 3.9.2, should plan their route outside the Shanwick OCA and ensure that they are within VHF coverage of appropriate ground stations throughout the flight. Theoretical coverage diagrams are shown at ENR 6-73 and ENR 6-74.

3.9.4 Aircraft subject to the NAT DLM must carry and operate FANS 1/A CPDLC equipment.

FANS 1/A CPDLC service is available throughout the Shanwick OCA.

3.9.5 Aircraft operating on T9 and T290, in addition to maintaining routine communications with Shanwick Radio on HF radio, are required to monitor VHF Channel 128.360 MHz which is reserved for intervention or emergency purposes only.

Upon first contact with Shanwick Radio the radio officer will:

a) Assign a primary and secondary HF frequency;
b) Designate the position and frequency to contact the next agency;
c) Provide a SELCAL check;
d) Assign Channel 128.360 MHz for monitoring.

Channel 128.360 MHz is continually monitored by both radio officers who use the callsign ‘Shanwick Radio’ and air traffic controllers who use the callsign ‘Shanwick Control’.

If immediate contact is required with the flight due to an emergency situation, or if a navigational non-conformance is identified, the Shanwick controller may contact the flight directly on Channel 128.360 MHz.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.9.6 Continuous watch on emergency frequency 121.500 MHz.

3.9.6.1 The VHF emergency frequency of 121.500 MHz should be continuously guarded except for those periods when aircraft are carrying out communications on other channels, or when airborne equipment or cockpit duties do not permit the simultaneous guarding of multiple channels.

3.9.6.2 When contact has been established between aircraft on emergency frequency 121.500 MHz, subsequent communication should be conducted on another frequency mutually agreed between the aircraft concerned.

3.9.7 Pilots may use SATCOM voice for routine ATS communications in the Shanwick OCA.

Note: *At this time Shanwick only supports Quick-Dial Service via the INMARSAT system, for normal communications.*

3.9.7.1 A dedicated Quick-Dial satellite voice telephone number for Shanwick Radio has been programmed into the aeronautical Ground Earth Stations of the Inmarsat Signatories. The allocated airborne number for use via the aircraft satellite voice equipment is 425002.

3.9.7.2 SATCOM voice facilities are provided in addition to, but not as an alternative to, HF communications and pilots must adhere to all requirements pertaining to the carriage and use of HF radio. Pilots using this SATCOM number will continue to communicate with Shanwick OCA via Shanwick Radio and standard RTF phraseology should be used at all times.

3.9.7.3 A dedicated airborne number (423201) is provided for direct pilot/controller communication for use in emergency situations. GEN 3-6-5 refers. This dedicated Quick-Dial satellite voice telephone number has been programmed into the aeronautical Ground Earth Stations of the Inmarsat Signatories only and is not available through any other Satellite service provider.

3.9.7.4 SATCOM communications initiated due to HF propagation difficulties do not constitute an urgency situation and should be addressed to Shanwick Radio on 425002.

3.9.8 If an aircraft within the Shanwick OCA is unable to communicate direct with Shanwick Oceanic, the pilot-in-command must endeavour to pass position reports by one of the following methods:

a) By relay through any other Oceanic Centre with which communication has been established;
b) if no other means is available, by relay through another aircraft on frequency 121.500 MHz.

3.9.9 While operating in an HF air-ground communications environment, pilots shall maintain a listening watch on the assigned radio frequency. This will not be necessary, however, if the aircraft is SELCAL equipped and correct use is ensured. Correct SELCAL use shall comprise:

a) The inclusion of the SELCAL code in the flight plan;
b) the issue of a correction to the SELCAL code if subsequently altered due to change of aircraft or equipment; and
c) an operational check of the SELCAL equipment with the appropriate radio station at or prior to initial entry into Oceanic Airspace. This SELCAL check must be completed prior to commencing SELCAL watch.

3.9.10 Communications within NOTA and SOTA are carried out with Shannon ACC using VHF. The appropriate frequencies and service areas are detailed in AIP Ireland.

3.9.11 Communications within BOTA are carried out with Brest ACC using VHF. The appropriate frequencies and service areas are detailed in AIP France.

3.9.12 Communications within the Shanwick OCA are as follows:

a) HF Aeromobile operations in the North Atlantic Region (NAT) are available for use in groups known as 'Families' and will be assigned as appropriate on first contact;
b) As a general guide, the following frequency allocation principles are used:

Frequency Family	Usage
NAT A	Assigned to aircraft flying routes with reporting coordinates between 43N and 47N.
NAT B and C	Assigned to aircraft flying routes with reporting coordinates between 47N and 64N. Primary assignment for aircraft flying central routes.
NAT D	Assigned to aircraft flying routes with reporting coordinates North of 62N.
NAT F	Assigned on a tactical basis and coordinated between Shanwick Radio and Gander Radio.
NAT H, I and J	Assigned on a tactical basis and coordinated between Shanwick Radio, adjoining NARTEL Radio Stations and Domestic Air Traffic Control agencies.

Service	Callsign/Ident	Freq	Hours of Service	Operating Authority and Remarks
1	2	3	4	5
		SELCAL is available on all HF A/G frequencies.		
				Irish Aviation Authority.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Service	Callsign/Ident	Freq	Hours of Service	Operating Authority and Remarks
A/G	Shanwick Radio	3016 kHz 5598 kHz 8906 kHz 13306 kHz	0100-0900, 1800-2200 H24 0900-2100 HO	**Family A.** To be used by all aircraft flying the Southern NAT Routes. Assigned to aircraft flying routes with reporting coordinates between 43N and 47N.
A/G	Shanwick Radio	2899 kHz 5616 kHz 8864 kHz 13291 kHz 17946 kHz	0000-0900, 1800-2400 H24 0900-2100 HO HO	**Family B.** Assigned to aircraft flying routes with reporting coordinates between 47N and 64N.
A/G	Shanwick Radio	2872 kHz 5649 kHz 8879 kHz 11336 kHz 13306 kHz 17946 kHZ	0000-0900, 1800-2400 H24 0900-2100 HO HO HO	**Family C.** Assigned to aircraft flying routes with reporting coordinates between 47N and 64N.
A/G	Shanwick Radio	2971 kHz 4675 kHz 8891 kHz 11279 kHz 17946 kHz	0100-0800 0100-0800, 1100-1800 HO HO HO	**Family D.** Assigned to aircraft flying routes with reporting coordinates North of 62N.
A/G	Shanwick Radio	3476 kHz 6622 kHz 8831 kHz 13291 kHz 17946 kHz	0100-0800 1000-1800 1000-1800 HO HO	**Family F:** Assigned on a tactical basis and coordinated between Shanwick Radio and Gander Radio.
A/G	Shanwick Radio	2965 kHz 3491 kHz 5583 kHz 6556 kHz 6667 kHz 10021 kHz 10036 kHz 11363 kHz	HO	**Family H:** Assigned on a tactical basis and coordinated between Shanwick Radio, adjoining NARTEL Radio Stations and Domestic ATC agencies.
A/G	Shanwick Radio	2860 kHz 2881 kHz 2890 kHz 3458 kHz 3473 kHz 3488 kHz 5484 kHz 5568 kHz 6550 kHz 6595 kHz 10066 kHz	HO	**Family I:** Used on a tactical basis and coordinated between Shanwick Radio, adjoining NARTEL Radio Stations and Domestic ATC agencies.
A/G	Shanwick Radio	2869 kHz 2944 kHz 2992 kHz 3446 kHz 3473 kHz 4651 kHz 4666 kHz 4684 kHz 5460 kHz 5481 kHz 5559 kHz 5577 kHz 6547 kHz 8843 kHz 8954 kHz 11276 kHz	HO	**Family J:** Used on a tactical basis and coordinated between Shanwick Radio, adjoining NARTEL Radio Stations and Domestic ATC agencies.
A/G	Shanwick Radio	2182 kHz 3023 kHz 5680 kHz	HO	Search and Rescue (SAR). Operated as required.
Hours of service of individual frequencies, or groups of frequencies, may vary as HF propagation conditions or operational requirements demand.				

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Service	Callsign/Ident	Freq	Hours of Service	Operating Authority and Remarks
A/G	Shanwick Radio	127.900 MHz 124.175 MHz	H24	To be used as far as practicable by aircraft when East of 020°W so as to reduce the loading on HF channels. Traffic received on this freq is handled in exactly the same way as if received on HF.
A/G and ATC	Shanwick Radio or Shanwick Control	128.360 MHz	H24	To enable direct controller pilot communications on routes T9 and T290. See ENR 2.2 paragraph 3.9.5.
A/G	Shanwick Oceanic	123.950 MHz	H24 **(See note)**	NATS Ltd. For use by aircraft registered in States West of 030°W for submitting an 'RCL' direct to OAC. ***Note:*** *If communication cannot be established on designated Channel, pilot should communicate on the alternative frequencies.*
A/G	Shanwick Oceanic	127.650 MHz	H24	For use by aircraft registered in States East of 030°W for submitting an 'RCL' direct to OAC. For this purpose Australia is regarded as being East of 030°W.
Air-to-Air	—	123.450 MHz	H24	Air-to-Air inter-pilot frequency.

Service	Callsign/Ident	SATCOM number	Hours of Service	Operating Authority and Remarks
1	2	3	4	5
A/G	Shanwick Radio	425002	H24	Irish Aviation Authority Available for routine ATS messages via Shanwick Radio.
ATC	Shanwick Oceanic	423201	H24	NATS Ltd. Available for direct pilot/controller communications in emergency situations only

3.10 Air Ground Messages

Annex 2, Regional Supplementary Procedures DOC 7030 and PANS Doc 4444 ATM/501.

3.10.1 Standard Air/Ground message types and formats are used within the NAT Region. To enable the ground stations to process messages in the shortest possible time, pilots should observe the following rules:

a) Use the correct type of message applicable to the data transmitted;
b) state the message type on the contact call to the ground station or at the start of the message;
c) adhere strictly to the sequence of information for the type of message;
d) all times in each of the messages should be expressed in hours and minutes.

3.10.2 Position
Content and data sequence to be used for routine position reports:

a) 'Position';
b) flight Identification;
c) present position;
d) time over present position (hours and minutes);
e) present Flight Level;
f) next position on assigned route;
g) estimated time for position (hours and minutes);
h) next subsequent position;
i) any further information eg MET data or Company Message.

Example: 'Position, LUFTHANSA420, SUNOT (57N 015W), 1235, FL 330, Est 56N 020W, 1310, Next 56N 030W'

3.10.3 Request Clearance

3.10.3.1 Content and data sequence to be used, in conjunction with a routine position report, to request a change of MACH number, Flight Level or route:

a) 'Request Clearance';
b) flight Identification;
c) present or last reported position;
d) time over present or last reported position (hours and minutes);
e) present Flight Level;
f) next position on assigned route or Oceanic Entry point;

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

g) estimate for next position or Oceanic Entry point;
h) next subsequent position;
i) requested MACH Number, Flight Level or route;
j) further information or clarifying remarks.

Example: 'Request clearance TRANSWORLD 801, 56N 020W, 1245, FL 330, Est 56N 030W, 1320, Next 56N 040W. Request FL 350'.

3.10.3.2 When a change of MACH number, Flight Level or route is requested and a position report message is not appropriate, the content and data sequence may be limited to:

a) 'Request Clearance';
b) flight Identification;
c) requested MACH number, Flight Level or route;
d) further information or clarifying remarks.

Example: 'Request Clearance SPEEDBIRD 212, Request FL 370'.

3.10.4 Revised Estimate

3.10.4.1 Content and data sequence to be used to up date estimate for next position:

a) 'Revised Estimate';
b) flight identification;
c) next position on route;
d) revised estimate for next position (hours and minutes);
e) further information.

Example: 'Revised Estimate SPEEDBIRD 212, 57N 040W, 0325'.

3.10.5 Miscellaneous

3.10.5.1 Content and data sequence to be used to pass information or make a request in plain language that does not conform with the content of other message formats. No message designator is required as this will be inserted by the ground station:
(a) Flight identification;
(b) general information or request in plain language and format free.

3.10.6 Time and Place of Position Reports

3.10.6.1 Position reports shall be made at the significant points of the current flight plan track.

3.10.6.2 Shanwick may require flights operating in an east-west direction to make additional position reports at any intermediate meridians spaced at intervals of 10 degrees of longitude between 005W and 030W.

3.10.6.3 Shanwick may require flights operating in a north-south direction to make position reports at any intermediate parallel of latitude.

3.10.6.4 In requiring aircraft to report their position at intermediate intervals, Shanwick will be guided by the requirement to have position information at approximately hourly intervals and also by the need to cater for varying types of aircraft and for varying traffic and meteorological conditions.

3.10.7 Contents of Position Report

3.10.7.1 Position information shall be based on the best obtainable navigation fix. The time of fixing aircraft position shall be arranged to provide the most accurate position information and estimates possible.

3.10.7.2 'Position' shall be expressed by the latitude and longitude of the point at which the fixed reporting line is crossed. For flights whose tracks are predominantly east or west, latitude shall be expressed in degrees and minutes, longitude in degrees only. For flights whose tracks are predominantly north or south, latitude shall be expressed in degrees only, longitude in degrees and minutes. Aircraft operating in the Organized Track System for supersonic aircraft operations may report their position by reference to the track code with the longitude of the reporting point.

3.10.7.3 'Next position' shall normally be expressed as the significant point at which the aircraft is next required to report its position.

3.10.7.4 Unless providing position reports via ADS-C, if the estimated time for the next position as last reported to ATC has changed by three minutes or more, a revised estimate shall be transmitted to the ATC units concerned, as soon as possible.

3.10.7.5 The name or co-ordinates of the significant point following the 'next position' shall be given when making a position report.

3.10.8 Addressing Position Reports

3.10.8.1 Position reports, made to Shanwick by flights operating in the Shanwick OCA at a distance of 60 NM or less from the common

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Boundary with an adjacent OCA (including aircraft operating on tracks through successive points on the Boundary) should also be addressed to the controlling authority of the adjacent OCA.

3.11 Special Procedures for In-flight Contingencies

PANS Doc 4444

3.11.1 Although all possible contingencies cannot be covered, the procedures in 3.11.2, 3.11.3 and 3.11.4 provide the more frequent cases such as:

a) inability to comply with assigned clearance due to meteorological conditions (3.11.4 refers);
b) en-route diversion across the prevailing traffic flow (for example, due to medical emergencies (3.11.2 and 3.11.3 refer)); and
c) loss of, or significant reduction in, the required navigation capability when operating in airspace where the navigation performance accuracy is a prerequisite to the safe conduct of flight operations, or pressurisation failure (3.11.2 and 3.11.3 refer).

Note: *Guidance on procedures to follow when an aircraft experiences a degradation in navigation capabilities can be found in PANS-ATM, Chapter 5, section 5.2.2.*

3.11.1.1 The pilot shall take action as necessary to ensure the safety of the aircraft, and the pilot's judgement shall determine the sequence of actions to be taken, having regard to the prevailing circumstances. Air traffic control shall render all possible assistance.

3.11.2 **General Procedures**

Note: *Figure 3-1 provides an aid for understanding and applying the contingency procedures contained in paragraphs 3.11.2 and 3.11.3.*

3.11.2.1 If an aircraft is unable to continue flight in accordance with its ATC clearance, a revised clearance shall be obtained, whenever possible, prior to initiating any action.

3.11.2.2 If prior clearance cannot be obtained, the following contingency procedures should be employed until a revised clearance is received, the pilot shall:

a) leave the assigned route or track by initially turning at least 30 degrees to the right or to the left in order to intercept and maintain a parallel, direction track or route offset 9.3 KM (5.0 NM). The direction of the turn should be based on one or more of the following:
    i. aircraft position relative to any organised track or route system;
    ii. the direction of flights and flight levels allocated on adjacent tracks;
    iii. the direction of an alternate airport;
    iv. any strategic lateral offset being flown; and
    v. terrain clearance;
b) the aircraft should be flown at a flight level and an offset track where other aircraft are less likely to be encountered;
c) maintain a watch for conflicting traffic both visually and by reference to ACAS (if equipped) leaving ACAS in RA mode at all times, unless aircraft operating limitations dictate otherwise;
d) turn on all aircraft exterior lights (commensurate with appropriate operating limitations);
e) keep the SSR transponder on at all times and, when able squawk 7700, as appropriate;
f) as soon as practicable, the pilot shall advise air traffic control of any deviation from assigned clearance;
g) use whatever means is appropriate (i.e. voice and/or CPDLC) to communicate during contingency or emergency;
h) if voice communication is used, the radiotelephony distress signal (MAYDAY) or emergency signal (PAN PAN), preferably spoken three times, shall be used as appropriate;
i) when emergency situations are communicated via CPDLC, the controller may respond via CPDLC. However, the controller may also attempt to make voice communication contact with the aircraft;

    Note: *Additional guidance on emergency procedures for controllers, radio operators and flight crew in data link operations can be found in the Global Operational Data Link (GOLD) Manual (Doc 10037).*

j) establish communications with and alert nearby aircraft by broadcasting, at suitable intervals on 121.500 MHz (or, as a backup, on the inter-pilot air-to-air frequency 123.450 MHz) and where appropriate on the frequency in use: aircraft identification, the nature of the distress condition, intention of the person in command, position (including the ATS route designator or the track code, as appropriate) and flight level; and
k) the controller should attempt to determine the nature of the emergency and ascertain any assistance that may be required. Subsequent ATC action with respect to that aircraft shall be based on the intentions of the pilot and overall traffic situation.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.11.3 **Actions to be Taken Once Offset From Track**

3.11.3.1 If possible, maintain the assigned flight level until established on the 9.3 KM (5.0 NM) parallel, same direction track or route offset. If unable, initially minimize the rate of descent to the extent that is operationally feasible.

3.11.3.2 Once established on a parallel, same direction track or route offset by 9.3 KM (5.0 NM), either:

a) descend below FL 290, and establish a 150 M (500 FT) vertical offset from those flight levels normally used, and proceed as required by the operational situation or if an ATC clearance has been obtained, proceed in accordance with the clearance; or

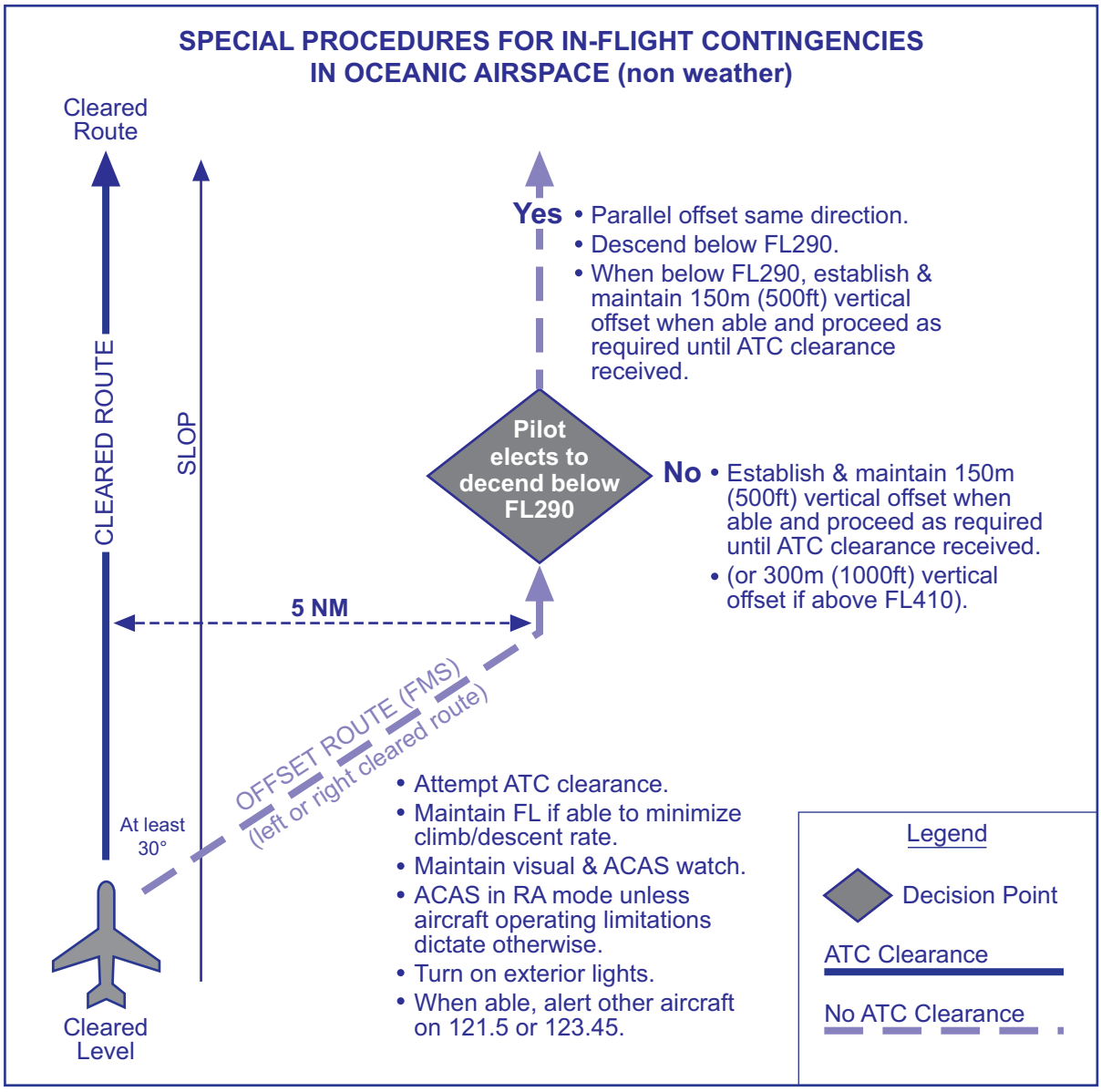
Note: *Descent below FL 290 is considered particularly applicable to operations where there is a predominant traffic flow (e.g. east-west) or parallel track system where the aircraft's diversion path will likely cross adjacent tracks or routes. A descent below FL 290 can decrease the likelihood of conflict with other aircraft, ACAS RA events and delays in obtaining a revised ATC clearance.*

b) establish a 150 M (500 FT) vertical offset (or 300 M (1000 FT) vertical offset if above FL 410) from those flight levels normally used, and proceed as required by the operational situation, or if an ATC clearance has been obtained, proceed in accordance with the clearance.

Note: *Altimetry System Error may lead to less than actual 500 FT vertical separation when the above procedure is applied. In addition, with the 500 FT vertical offset applied, ACAS RAs may occur.*

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Figure 3-1. Visual aid for understanding and applying the contingency procedures guidance



3.11.4 **Weather Deviation Procedures**

3.11.4.1 **General**

Note: *The following procedures are intended for deviation around adverse meteorological conditions.*

3.11.4.1.1 When weather deviation is required, the pilot should initiate communications with ATC via voice or CPDLC. A rapid response may be obtained by either:

a) stating “WEATHER DEVIATION REQUIRED” to indicate that priority is desired on the frequency and for ATC response; or
b) requesting a weather deviation using a CPDLC lateral downlink message.

3.11.4.1.2 When necessary, the pilot should initiate the communications using the urgency call “PAN PAN” (preferably spoken three times) or by using a CPDLC urgency downlink message.

3.11.4.1.3 The pilot shall inform ATC when weather deviation is no longer required, or when a weather deviation has been completed and the aircraft has returned to its cleared route.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.11.4.2 **ACTIONS TO BE TAKEN WHEN CONTROLLER-PILOT COMMUNICATIONS ARE ESTABLISHED**

3.11.4.2.1 The pilot should notify ATC and request clearance to deviate from track or route, advising, when possible, the extent of the deviation requested. The flight crew will use whatever means is appropriate (i.e. voice and/or CPDLC) to communicate during a weather deviation.

Note: *Pilots are advised to contact ATC as soon as possible with requests for clearance in order to provide time for the request to be assessed and acted upon.*

3.11.4.2.2 ATC should take one of the following actions:

a) When appropriate separation can be applied, issue clearance to deviate from track; or
b) If there is conflicting traffic and ATC is unable to establish appropriate separation. ATC shall;

i. Advise the pilot of inability to issue clearance for the requested deviation;
ii. Advise the pilot of conflicting traffic; and
iii. Request the pilot's intentions.

3.11.4.2.3 The pilot should take the following actions:

a) comply with the ATC clearance issue; or
b) advise ATC of intentions and execute the procedures detailed in 3.11.4.3.

3.11.4.3 **ACTIONS TO BE TAKEN IF A REVISED ATC CLEARANCE CANNOT BE OBTAINED**

Note: *The provisions of this section apply to situations where a pilot needs to exercise the authority of a pilot-in-command under the provisions of Annex 2, 2.3.1.*

3.11.4.3.1 If the aircraft is required to deviate from track or route to avoid adverse meteorological conditions and prior clearance cannot be obtained, an ATC clearance shall be obtained at the earliest possible time. Until an ATC clearance is received, the pilot shall take the following actions:

a) if possible, deviate away from an organized track or route system;
b) establish communications with and alert nearby aircraft by broadcasting, at suitable intervals: aircraft identification, flight level, position (including ATS route designator or the track code) and intentions, on the frequency in use and on 121.500 MHz (or, as a backup, on the inter-pilot air-to-air frequency 123.450 MHz);
c) watch for conflicting traffic both visually and by reference to ACAS (if equipped);
d) turn on all aircraft exterior lights (commensurate with appropriate operating limitations);
e) for deviations of less than 9.3 KM (5.0 NM) from the originally cleared track or route remain at a level assigned by ATC;
f) for deviations greater than or equal to 9.3 KM (5.0 NM) from the originally cleared track or route, when the aircraft is approximately 9.3 KM (5.0 NM) from track, initiate a level change in accordance with Table 3-1;
g) if the pilot receives clearance to deviate from cleared track or route for a specified distance and, subsequently, requests, but cannot obtain a clearance to deviate beyond that distance, the pilot should apply an altitude offset in accordance with Table 3-1 before deviating beyond the cleared distance.
h) when returning to track or route, be at its assigned flight level when the aircraft is within approximately 9.3 KM (5.0 NM) of the centre line; and
i) if contact was not established prior to deviating, continue to attempt to contact ATC to obtain a clearance. If contact was established, continue to keep ATC advised of intentions and obtain essential traffic information.

Note: *If, as a result of actions taken under the provisions of 3.11.4.3.1, the pilot determines that there is another aircraft at or near the same flight level with which a conflict may occur, then the pilot is expected to adjust the path of the aircraft, as necessary, to avoid conflict.*

Table 3-1

Originally cleared track or route centre-line	Deviations > 9.3 KM (5.0 NM)	Level Changed
EAST (000° - 179° magnetic)	LEFT	DESCEND 90 M (300 FT)
	RIGHT	CLIMB 90 M (300 FT)
WEST (180° - 359° magnetic)	LEFT	CLIMB 90 M (300 FT)
	RIGHT	DESCEND 90 M (300 FT)

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.11.5 **Extended Range Operations by Aeroplanes with Two Turbine Power Units (ETOPS)**

3.11.5.1 If the contingency procedures are employed by a twin-engine aircraft as a result of an engine shutdown or failure of an ETOPS critical system, the pilot should advise ATC as soon as practicable of the situation, reminding ATC of the type of aircraft involved, and request expeditious handling.

3.12 Procedure for Strategic Lateral Offsets in NAT Airspace

Note 1: *The following incorporates lateral offset procedures for both the mitigation of the increasing lateral overlap probability due to increased navigation accuracy and wake turbulence encounters.*

Note 2: *The use of highly accurate navigation systems (such as the global navigation satellite system (GNSS)) by an increasing proportion of the aircraft population has had the effect of reducing the magnitude of lateral deviations from the route centre-line and, consequently, increasing the probability of a collision should a loss of vertical separation between aircraft on the same route occur.*

3.12.1 It has been determined that allowing aircraft conducting oceanic flight to fly lateral offsets, not to exceed 3.7 KM **(2 NM) right of centre-line** relative to the direction of flight in tenths of a nautical mile, will provide an additional safety margin and mitigate the risk of conflict when non-normal events such as aircraft navigation errors, altitude deviation errors and turbulence-induced altitude-keeping errors occur. Distributing aircraft laterally across the available positions adds an additional safety margin and reduces collision risk. PANS-ATM, Doc 4444 SLOP is now a standard operating procedure for the entire NAT Region and pilots are encouraged to adopt this procedure as appropriate. These procedures are known as “Strategic Lateral Offset Procedures (SLOP).”

3.12.2 This procedure provides for offsets within the following guidelines. The following provisions apply:

a) Aircraft without automatic offset programming capability must fly the centre-line;
b) Though the majority of flights are able to perform offsets either 1 or 2 NM (whole nautical miles), flights able to perform SLOP procedure in tenths of a nautical mile should use that capability as it contributes to risk reductions;
c) It is recommended that pilots of aircraft capable of programming automatic offsets should randomly select flying centre-line or an offset. In order to obtain lateral spacing from nearby aircraft (i.e. those immediately above and/or below), pilots should use whatever means available (e.g. ACAS/TCAS, communications, visual acquisition, GPWS) to determine the best flight path to fly;
d) An aircraft overtaking another aircraft should offset within the confines of this procedure, if capable, so as to create the least amount of wake turbulence for the aircraft being overtaken;
e) The avoidance of wake turbulence (even in the OTS) can be accomplished effectively within the confines of the SLOP procedure, as specified above. Pilots may contact other aircraft on frequency 123.450 MHz, as necessary, to co-ordinate the best wake turbulence offset option;

   Note: *It is recognised that pilots will use their judgement to determine the action most appropriate to any given situation and have the final authority and responsibility for the safe operations of the aircraft.*

f) Pilots may apply an offset outbound at the oceanic entry point and must return to centre-line at the oceanic exit point;
g) There is no ATC clearance required for this procedure and it is not necessary that ATC be advised;
h) Voice Position Reports should be based on the waypoints of the current ATC clearance and **not** on the offset positions;
i) **Pilots should not offset to the left of centre-line nor offset more than 2 NM right of centre-line.**

3.13 Adherence to ATC Approved Routes

Annex 2.

3.13.1 If an aircraft has inadvertently deviated from the route specified in the ATC clearance, it shall forthwith take action to regain such route within 100 NM from the position at which the deviation was observed.

3.14 Flight Information Service

PANS Doc 4444 ATM/501.

3.14.1 SIGMET Information

3.14.1.1 SIGMET information shall be transmitted to aircraft by VOLMET broadcast, by a general call to a group of aircraft, or by directed transmissions to individual aircraft, as determined by the appropriate area control centre according to circumstances, bearing in mind the need to ensure timely receipt of the information by the aircraft and to keep the load of the HF en-route communication channels to a minimum.

3.14.1.2 SIGMET information passed to aircraft shall cover a portion of the route up to two hours flying time ahead of the aircraft.

3.15 Air Traffic Services Messages

Regional Supplementary Procedures DOC 7030. PANS Doc 4444 ATM/501.

3.15.1 Filed flight plan messages for flights intending to operate within the Shanwick OCA, at a distance of 60 NM or less from the northern

or southern boundaries of the Shanwick OCA, shall also be addressed to the controlling authority for the adjacent OCA.

3.16 Secondary Surveillance Radar (SSR)

Regional Supplementary Procedures DOC 7030.

3.16.1 Operation of transponders

3.16.1.1 Unless otherwise directed by ATC, aircraft equipped with SSR transponders in the NAT region shall operate transponders continuously on Mode A Code 2000 regardless of the direction of flight, except that the last assigned code shall normally be retained for a maximum period of 10 minutes after entry into NAT airspace.

3.16.1.2 For all SSR equipped aircraft with a routeing sequence Reykjavik-Shanwick- Scottish (BIRD-EGGX-EGPX) the last assigned code shall be changed to Mode A 2000 on transfer from Reykjavik and no later than ten minutes after entering Shanwick airspace.

Note: *This procedure does not affect the use of Special Purpose Codes 7500, 7600 and 7700 in cases of unlawful interference, radio failure or emergency.*

3.16.2 Aircraft intending to fly in the SOTA are expected to be equipped with an SSR transponder capable of responding to Mode A interrogations with 4096 codes and Mode C interrogations with Automatic Pressure Altitude Reporting. Aircraft SSR codes will be allocated by Shannon ACC.

3.16.2.1 Exemptions from the SOTA SSR requirements for specific flights may be obtained from the Shannon ACC Supervisor before departure.

3.17 Action in the event of Air-Ground Communication Failure

3.17.1 The following procedures are intended to provide general guidance for North Atlantic (NAT) aircraft experiencing a communications failure. These procedures are intended to complement and not supersede State procedures/regulations. It is not possible to provide guidance for all situations associated with a communications failure.

3.17.2 General

3.17.2.1 If so equipped, the pilot of an aircraft experiencing a two way communications failure shall operate the secondary radar transponder on identity Mode A Code 7600 and Mode C.

3.17.2.2 The pilot shall also attempt to contact any ATC facility or another aircraft and inform them of the difficulty and request they relay information to the ATC facility with whom communications are intended.

3.17.3 Communications failure prior to entering NAT oceanic airspace.

3.17.3.1 Due to the potential length of time in oceanic airspace, it is strongly recommended that a pilot experiencing communications failure whilst still in European domestic airspace does not enter the Shanwick Oceanic Control Area but adopts the procedure as specified at ENR 1.1 sub-section 3. However, if the pilot elects to continue, then to allow the ATC organisation to provide adequate separation, adopt either the procedure at paragraphs 3.17.3.2 or 3.17.3.4.

3.17.3.2 If loss of communications is encountered before entering the NAT the pilot should:

- follow the radio communication procedures of the airspace in which the aircraft is operating;
- if the pilot elects to continue the flight, then enter oceanic airspace at the oceanic entry point at the level and speed resulting from the execution of the adjacent airspace radio communications failure (RCF) procedures then;
- follow the procedures in 3.17.4.1 below.

3.17.3.3 If the pilot elects to operate **without** a received and acknowledged oceanic clearance, the pilot shall enter oceanic airspace at the first oceanic entry point level and speed as contained in the filed flight plan and proceed via the filed flight plan route to landfall. That first oceanic level and speed shall be maintained to landfall.

3.17.4 Communications failure after entry to NAT oceanic airspace.

3.17.4.1 If loss of communications is encountered after entering the NAT then:

- The pilot shall maintain the currently cleared route, flight level and speed until reaching the Oceanic Exit Point.
- No route, flight level or speed change shall be made before the Oceanic Exit Point unless a change is deemed necessary by the pilot in command to ensure the safety of the aircraft.
- When being vectored or having been directed by ATC to proceed offset using RNAV without a specified limit, proceed in the most direct manner possible to re-join the current flight plan route no later than the next significant point, taking into consideration the applicable minimum flight altitude.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.17.5 **Emergency Satellite Voice Calls from Aircraft** (See GEN 3.6, paragraph 6.4).

3.18 Minimum Aircraft System Performance Specification (MASPS)

3.18.1 **Application of Minimum Navigation Performance Specification (MNPS) in Shanwick OCA**

3.18.1.1 MNPS applies in that part of the Shanwick Oceanic Control Area from FL 285 to FL 420 inclusive. Aircraft using the NAT High Level Airspace (NAT HLA) shown at ENR 6-62 are required to have a navigation performance capability such that:

a) Pre-PBN navigation:

- The standard deviation of lateral track errors shall be less than 6.3 NM;
- the proportion of total flight time spent by aircraft 30 NM or more off the cleared track shall be less than 5.3×10^{-4};
- the proportion of the total flight time spent by aircraft between 50 and 70 NM off the cleared track shall be less than 13×10^{-5}.

These mathematical standards can be approximated operationally as follows:

- Aircraft must be operated so that lateral deviations from track remain less than 12.6 NM for at least 95 per cent of the time the system is required for navigation;
- the navigation system must demonstrate a continuing capability to keep lateral deviations from cleared track in excess of 30 NM to less than 53 per 100 000 flight hours in the system; and
- keep lateral deviations between 50 and 70 NM from cleared track to less than 13 per 100 000 flight hours in the system.

b) Area Navigation (RNAV) Specifications:

- RNAV 10 (RNP 10) specification shall be applicable to navigation systems used to support a minimum lateral separation of 60 NM between aircraft that the requirements to operate in the NAT HLA provided that a portion of the route of the aircraft is within, above or below NAT HLA. In addition RNAV 10 can support a minimum lateral separation of 50 NM between aircraft operating in the New York Oceanic East FIR.

c) Required Navigation Performance (RNP) Specifications:

- RNP 4 specification shall be applicable to navigation systems used to support minimum lateral separations as in (b) above and is required to support minimum lateral separations of 30 NM between aircraft operating within the control area of the New York Oceanic East FIR.

Note 1: *Aircraft that have been NAT MNPS approved by the State of Registry or the State of the Operator prior to 1 January 2015 shall be permitted to operate in NAT HLA until 30 January 2020. As of 1 January 2015 new NAT MNPS approvals shall not be granted.*

Note 2: *RNAV 10 (RNP 10) and RNP 4 approved aircraft require a NAT HLA MNPS approval to demonstrate compliance with the MNPS established for the NAT HLA.*

Note 3: *Except for the navigational portion the requirements for a NAT HLA MNPS approval are equivalent to the 3 requirements that were associated with granting NAT MNPS approvals.*

3.18.1.2 These mathematical standards can be approximated operationally as follows:

a) Aircraft must be operated so that lateral deviations from track remain less than 12.6 NM for at least 95 per cent of the time the system is required for navigation;
b) the navigation system must demonstrate a continuing capability to keep lateral deviations from cleared track in excess of 30 NM to less than 53 per 100 000 flight hours in the system; and
c) keep lateral deviations between 50 and 70 NM from cleared track, to less than 13 per 100 000 flight hours in the system.

3.18.1.3 In order to ensure that the required navigation standards are being observed within the NAT HLA, a continuous monitoring of the navigation accuracy of aircraft in this airspace takes place using land based radars in Canada, Ireland, France, Iceland and the UK. Where large navigation errors are observed the pilot of the aircraft concerned will be notified by the ATC Unit observing the error. The subsequent investigation to determine the cause of the error will involve the ATC Unit, the operator, and the State of Registry.

3.18.1.4 Lateral separation minima for aircraft operating in the NAT HLA are set out in the Regional Supplementary Procedures, NAT Region (ICAO Doc 7030/5). It is implicit in the concept of MNPS and essential to the application of these quoted separation minima, that all operations in the NAT HLA – be they Public Transport or General Aviation – achieve the highest standards of navigation performance accuracy. Thus all flights within the NAT HLA must have the specific approval of either the State of Registry of the aircraft or the State of Registry of the operator for such operations. UK registered aircraft are approved by the UK CAA in accordance with the Air Navigation Order. Such approvals will encompass all aspects of the expected navigation performance accuracy of the aircraft, navigation equipment carried, installation and maintenance procedures and crew navigation procedures and training.

3.18.1.5 The inherent obligations placed upon crews and operators of UK registered aircraft by the NAT HLA requirements can be summarized as follows:

a) The flight MUST have prior approval for operations in NAT HLA;

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

b) the approved aircraft minimum navigation installation MUST be serviceable and MUST have been checked for accuracy prior to entry into NAT HLA;
c) whilst in NAT HLA the approved operating procedures MUST be adhered to. Except in emergency, diversions from the ATC cleared track MUST NOT be made without prior approval of the controlling ATC Unit;
d) if subsequent unserviceability reduces the navigational capability below the required minimum for MNPS operations after entry into NAT HLA then the controlling ATC Unit MUST be advised so as to allow for any adjustments of separation from adjacent aircraft;
e) there MUST be a high standard of supervision, monitoring and cross checking of data inserted into automatic navigation system to prevent large errors arising from erroneous waypoint entries;
f) there MUST be a high standard of co-ordination with ATC Units to ensure that misunderstandings over the route to be flown do not occur.

3.18.1.5.1 Westbound flights submitting an 'RCL' to Shanwick to enter North Atlantic High Level Airspace (NAT HLA) may be invited to confirm that they have been approved for operating within NAT HLA by their State of Registry or their State of Operator.

3.18.1.5.2 The submission of a Flight Plan alone does **NOT** constitute NAT HLA operating approval. Pilots/operators unable to provide such confirmation will not be permitted to fly in NAT HLA airspace but will be required to operate outside HLA (below FL 285 or above FL 420). Details of the flight will be passed to the NAT Central Monitoring Agency (CMA) for follow-up action by the relevant State Aviation Authority.

3.18.1.6 **Navigation Equipment for Unrestricted NAT HLA Operations**.

3.18.1.6.1 In order to justify consideration for State approval for future unrestricted operation in the NAT HLA an aircraft will be required to be equipped as follows:

a) **Two** fully serviceable Long Range Navigation Systems (LRNS).
A LRNS may be one of the following:

i. One Inertial Navigation System (INS);
ii. one Global Navigation Satellite System (GNSS); or
iii. one navigation system using the inputs from one or more Inertial Reference System (IRS) or any other sensor system complying with the NAT HLA requirement.

b) each LRNS must be capable of providing to the flight crew with a continuous indication of the aircraft position relative to desired track.
c) it is highly desirable that the navigation system employed for the provision of steering guidance is capable of being coupled to the auto-pilot.

Note 1: *currently the only GPS system fully operational and for which approval material is available is GPS.*

Note 2: *A GPS installation must be approved as follows:*
If the two required LRNSs are both GPS they must be approved in accordance with the current version of FAA Advisory Circular AC-20—138D Appendix 1. AC-20-138 requires that GPS systems used in Oceanic airspace must have a FDE function. States other than the USA may set their own standards for operational approval of GPS to provide Primary Means of Navigation in Oceanic and remote areas but in all cases these approvals will include the requirement to carry out Pre-Departure Satellite Navigation Prediction Programmes. If, however, GPS serves as only one of the two required LRNSs then it must be approved in accordance with FAA TSO-C129 or later standard as Class A1, A2, B1, B2, C1 or C2 or with equivalent European Aviation Safety Agency (EASA) documentation ETSO-C129a. In this instance individual States vary in their insistence upon the need for the conduct of pre-departure satellite navigation prediction programmes (viz. FDE/RAIM).

Note 3: *Currently equivalent approval material for GLONASS is not under development but it will need to be available prior to approval of any GLONASS equipped aircraft for NAT HLA operations.*

3.18.1.7 **Provisions for Partial Loss of the full MNPS Navigational Capability**

3.18.1.7.1 In the event of an aircraft **having State approval for un-restricted operation in NAT HLA** suffering partial loss of navigation capability (only one long range navigation system serviceable) prior to entry into Oceanic Airspace, the pilot should either avoid NAT HLA or consider a re-route via Reykjavik OCA.

3.18.1.8 **Special Routes for Aircraft fitted with a Single LRNS**

3.18.1.8.1 Aircraft, **having State approval for operating in NAT HLA,** which are equipped with normal short-range navigation equipment (VOR/DME, ADF) and at least one fully operational Long Range Navigation System (see paragraph 3.18.1.6.1) are considered capable of meeting the MNPS while operating along the following routes:

Note: *T9 and T290 have continuous VHF coverage at FL 300 and above.*

Via	Route Options
T9	LASNO - BEGAS (VHF, HF and ADS-B required)
T290	ADVAT - GELPO (VHF, HF and ADS-B required)

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.18.2 **Application of Reduced Vertical Separation Minima (RVSM) in Shanwick OCA**

3.18.2.1 RVSM applies in the MNPS Area of the Shanwick Oceanic Control Area from FL 290 to FL 410 inclusive. Aircraft using this area are required to have a height keeping performance capability as defined in the appropriate ICAO Documents/JAA Temporary Guidance Leaflet.

3.18.2.2 In order to ensure that the overall standard of required height keeping is being achieved within RVSM airspace a technical height keeping monitoring program has been established in accordance with ICAO guidance.

3.18.2.3 In order to ensure that the required altimetry standards are being observed within RVSM airspace, a technical height keeping monitoring programme has been initiated.

3.18.2.3.1 For the task of monitoring technical height keeping accuracy, a hybrid system comprising of a Height Monitoring Unit (HMU) and GPS Monitoring Systems (GMS) is employed. The HMU element consists of an unmanned ground-based HMU near Strumble (United Kingdom).

3.18.2.3.2 The GMS consists of air portable Global Positioning System Monitoring Units (GMUs), GPS reference stations, access to Mode C and MET information, post-flight processing facilities and logistic support.

3.18.2.4 It is implicit in the concept of RVSM airspace and essential to the application of this quoted vertical separation minimum, that all operations in the NAT High Level Airspace/RVSM airspace - be they Public Transport or General Aviation - achieve the highest standards of navigation performance accuracy. Thus all flights within the NAT High Level Airspace must have the specific approval of either the State of Registry of the aircraft, or the State of Registry of the Operator, for such operations. UK Registered aircraft are approved by the UK CAA in accordance with the Air Navigation Order. Such approvals will encompass all aspects of the expected height keeping performance accuracy of the aircraft; altitude measuring equipment carried; installation and maintenance procedures and crew navigation procedures and training.

3.18.2.4.1 The inherent obligations placed upon crews and operators of UK registered aircraft by the NAT RVSM airspace requirements can be summarized as follows:

a) The flight **MUST** have prior approval for operations in NAT RVSM airspace;
b) the approved aircraft minimum altitude measuring installation **MUST** be serviceable and **MUST** have been checked for accuracy prior to entry into RVSM airspace;
c) whilst in RVSM airspace the approved operating procedures **MUST** be adhered to. Except in emergency, diversions from the ATC cleared Flight level **MUST NOT** be made without prior approval of the controlling ATC Unit;
d) if subsequent unserviceability reduces the altitude measuring capability below the required minimum for RVSM operations after entry into RVSM airspace then the controlling ATC Unit **MUST** be advised so as to allow for any adjustments of separation from adjacent aircraft;
e) there **MUST** be a high standard of supervision, monitoring and cross checking of altimeters to prevent a large discrepancy from the cleared flight level (less than 300 FT);
f) an automatic Altitude Keeping Device (AKD) should be operative and engaged during level cruise, except when circumstances such as the need to re-trim the aircraft or the onset of turbulence, require disengagement. In any event, adherence to cruise altitude should be accomplished by reference to one of the two primary altimeters;
g) there **MUST** be a high standard of co-ordination with ATC Units to ensure that misunderstandings over the cleared flight level do not occur.

3.18.2.5 Westbound flights submitting an 'RCL' to Shanwick to enter North Atlantic (NAT) Reduced Vertical Separation Minima (RVSM) airspace may be invited to confirm that they have been approved for operating within RVSM airspace by their State of Registry or their State of Operator.

3.18.2.5.1 The submission of a Flight Plan alone does **NOT** constitute NAT RVSM operating approval. Pilots/Operators unable to provide such confirmation will not be permitted to enter NAT RVSM airspace and will be issued an Oceanic approval to operate outside RVSM airspace (below FL 290 or above FL 410). Details of the flight will be passed to the NAT Central Monitoring Agency (CMA) for follow-up action by the relevant State Aviation Authority.

3.18.2.6 **Altitude Measuring Equipment or Features for Unrestricted RVSM airspace Operations**

3.18.2.6.1 In order to justify consideration for State approval for future unrestricted operation in the RVSM airspace, an aircraft will be required to be equipped as follows:

a) at least two primary altitude measurement systems meeting the MASPS requirements;
b) a static source error correction (SSEC)/position error correction (PEC) must be applied automatically;
c) an altitude deviation warning system that shall alert when the altitude displayed to the flight crew deviates from selected altitude by more than a nominal value. This nominal value shall not be greater than 300 FT. For aircraft whose application for type certification was made after 1 January 1997, the nominal value should not be greater than 200 FT. The overall equipment tolerance in implementing this nominal value shall not exceed 50 FT; and
d) an automatic altitude-alerting device which is required to be capable of controlling altitude within +/- 65 FT of the selected altitude, when the aircraft is operated in straight and level flight, under non-turbulent, non-gust conditions.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

3.18.2.7 Suspension of RVSM due to actual or forecast Turbulence

3.18.2.7.1 On receipt of information indicating actual or forecast Turbulence, ATC should take the following action:

a) if possible, establish increased vertical, longitudinal or lateral separation; or
b) suspend RVSM operations in the affected area.

3.18.3 In order to assist operators and crews to achieve the required standard of navigation and height keeping accuracy two documents have been published:

a) Guidance and Information Material concerning Air Navigation in the NAT Region, including RVSM, is produced by and available from the ICAO Paris Office. The material in this Document deals primarily with planning and management of operations in the NAT Region and is mainly addressed to States and Operators;
b) The North Atlantic Operations and Airspace Manual. This manual has been developed specifically for use by pilots intending to operate in the NAT HLA. This manual is available for download from the EUR/NAT Regional Office section of the ICAO website www.icao.int.

3.18.4 Operators of UK registered aircraft intending to fly in NAT High Level Airspace can obtain further information on the measures necessary to gain CAA approval from the following:

Equipment and Installation Approvals:

The Chief Surveyor,

Post: CAA Safety Regulation Group, Aviation House, South Area, London Gatwick Airport, West Sussex RH6 0YR.
Phone: +44-(0)1293-573362;

Operational Approvals:

Post: Civil Aviation Authority, Flight Operations Department (Attn: Flight Operations Policy), Aviation House, 1W, South Area, London Gatwick Airport, West Sussex RH6 0YR.
Phone: +44-(0)1293-573521
Fax: +44-(0)1293-573991;

Further Information on other aspects of MNPS/RVSM Operations (including height-monitoring requirements):

Post: North Atlantic Central Monitoring Agency, c/o NATS Limited, Room G41, Atlantic House, Fresson Avenue, Prestwick, Ayrshire, KA9 2GX.
Phone: +44-(0)1292-692412 HMU Status (recorded message)
+44-(0)1292-692760
Fax: +44-(0)1292-692754
Email: natcma@nats.co.uk

3.19 Routes Between Northern Europe and Spain/Canaries/Lisbon FIRs

3.19.1 Operators are recommended to Flight Plan using routes T9, T13, T16, T213 and T290 as published in ENR 3.3 Other Routes.

3.19.2 For fuel planning purposes, operators should note that optimum cruising levels may not be available on T9, T13, T16, T213 and T290.

Note: *Operators should not file using the route designator T13, T16, T213, and should file full route coordinates for these routes.*

3.20 Alerting and Search and Rescue Services

(See GEN 3.6 of the UK AIP).

3.21 Procedures — Westbound

a) Westbound flights are advised to flight plan the routes through UK Airspace that are offered by the Standard Routes Document published on the AIS CD-ROM.
b) Westbound flights departing from UK airports that are not listed are to flight plan via the published UK Upper ATS route structure.
c) For the UK Upper ATS Routes for the Westbound North Atlantic Flow refer to the Standard Routes Document published on the AIS CD-ROM.

3.22 Procedures - In the Event of Shanwick Oceanic Area Control Centre Evacuation

3.22.1 Scottish and Oceanic Area Control Centre includes both Scottish Radar and Shanwick Oceanic Control. Should Shanwick OAC be evacuated the potential would exist for a major disruption to Air Traffic Control (ATC) within the Shanwick OCA and Scottish

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Radar units. The HF radio communications for the Shanwick Oceanic Centre are remotely located, so will not be affected.

3.22.2 In the event that Shanwick OAC is evacuated, Gander Oceanic will assume responsibility for the provision of Air Traffic Services (ATS) within the Shanwick OCA to the best of their ability.

3.22.3 As soon as possible after evacuation a contingency message will be sent to the operators and agencies that receive the NAT track message. A NOTAM shall also be issued. Recipients of both messages shall advise the affected traffic.

3.22.4 On receipt of the contingency message pilots are requested to broadcast to other flights on 121.500 and 123.450 MHz. A listening watch on these frequencies must be maintained.

3.22.5 HF congestion is likely. Communications should be kept to a necessary minimum. Unnecessary route changes will not be issued.

3.22.6 The procedures outlined below are to be used as guidance for pilots in the immediate aftermath of a sudden withdrawal of the ATC service as described above.

3.22.7 **Procedures - Westbound Flights**

3.22.7.1 Due to the uncertainty surrounding the contingency situation pilots are strongly advised to re-route around the Shanwick OCA or to land at an appropriate aerodrome.

3.22.7.2 **Westbound Flights within Scottish FIR**

3.22.7.2.1 If Scottish radar is subject to evacuation also, pilots of flights operating within the Scottish FIR may elect to continue, the flight must be operated in accordance with the last submitted and acknowledged 'RCL' from eastern boundary until last specified route point, normally landfall.

3.22.7.2.2 Whilst operating within the Scottish FIR all flights are requested to make position reports on the last assigned frequency, stating position, level and next fix.

3.22.7.2.3 Flights may also elect to contact Scottish FIR aerodromes for assistance.

3.22.7.2.4 The following communications procedures have been developed in accordance with the Traffic Information Broadcast by Aircraft (TIBA) procedures recommended by ICAO (Annex 11 - Air Traffic Services, Attachment C).

At least 3 minutes prior to the commencement of a climb or descent the flight should broadcast on the last assigned frequency, 121.500, 243.000 and 123.450 MHz the following:

ALL STATIONS
(callsign)
(direction)
DIRECT FROM (landfall fix) TO (Oceanic entry point)
LEAVING FLIGHT LEVEL (number) FOR FLIGHT LEVEL (number) AT (distance)(direction) FROM (Oceanic entry point) AT (time)

When the level change begins, the flight should make the following broadcast:

ALL STATIONS
(callsign)
(direction)
DIRECTION FROM (landfall fix) TO (Oceanic entry point)
LEAVING FLIGHT LEVEL (number) NOW FOR FLIGHT LEVEL (number)

When level, the flight should make the following broadcast:

ALL STATIONS
(callsign)
MAINTAINING FLIGHT LEVEL (number)

3.22.7.3 **Westbound Flights within the Shanwick Oceanic Control Area**

3.22.7.3.1 Gander Oceanic shall endeavor to provide an ATC service throughout the Shanwick OCA as soon as evacuation commences.

3.22.7.3.2 All flights should establish communication with the next agency at the earliest opportunity stating current position, cleared flight level, next position and estimate, and subsequent position. This also applies to flights using automated position reports (ADS/FMC) because those reports may not have been received by the next agency.

3.22.7.3.3 When ADS equipped flights are notified of a Shanwick evacuation they must revert to voice position reporting until clear of Shanwick OCA, or notified otherwise. Pilots should note that they may be asked to log-on to CYQX when within the Shanwick OCA.

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They should not initiate this action until instructed to do so.

3.22.7.3.4 Any flights involved in level changes should complete the manoeuvre as soon as possible in accordance with the clearance.

3.22.7.3.5 If unable to establish radio contact, flights may use SATCOM voice or satellite telephone to provide position reports.

3.22.7.3.6 Flights may request their flight dispatch offices to forward position reports, if sending position reports to multiple ATS Units or if otherwise unable to forward position reports.

3.22.8 **Procedures for Eastbound Flights within the Shanwick Oceanic Control Area**

3.22.8.1 Gander Oceanic shall endeavour to provide an ATC service throughout the Shanwick OCA as soon as evacuation commences.

3.22.8.2 Flights operating with a received and acknowledged Oceanic Clearance will be expected to continue in accordance with the last clearance issued unless otherwise advised by ATC.

3.22.8.3 When ADS equipped flights are notified of a Shanwick evacuation they must revert to voice position reporting until clear of Shanwick OCA, or notified otherwise. Pilots should note that they may be asked to log-on to CYQX when within the Shanwick OCA. They should not initiate this action until instructed to do so.

3.22.8.4 Any flights involved in level changes should complete the manoeuvre as soon as possible in accordance with the clearance.

3.22.8.5 If unable to establish radio contact, flights may use SATCOM voice or satellite telephone to provide position reports.

3.22.8.6 Flights making automatic position reports are required to make voice position reports whilst within the Shanwick OCA, unless advised otherwise.

3.22.8.7 Communications with the next ATSU should be established at the earliest opportunity. Where no contact can be established, Shanwick Radio should be contacted on HF for advice.

3.22.8.8 **Procedures for Eastbound Flights entering the Scottish FIR**

3.22.8.8.1 Unless instructed otherwise, flights entering the Scottish FIR should use the following contingency routes:

a) RATSU DCT GUNPA contact Reykjavik Oceanic Control - 125.500 MHz;
b) LUSEN DCT ELKOG DCT ORVIK contact Polaris Control - 135.675 MHz;
c) ATSIX DCT AKIVO DCT KLONN contact Polaris Control - 136.275 MHz;
d) ORTAV DCT ODPEX DCT ELSAN contact Copenhagen Control - 134.680 MHz;
e) BALIX DCT NINEX DCT ASKAM contact Maastricht Control - 132.085 MHz;
f) ADODO DCT AMTAP DCT ROKAN DCT TOPPA contact Maastricht Control - 132.085 MHz;
g) ERAKA DCT ETSOM DCT ERKIT contact London Control - 128.130 MHz;
h) ETILO DCT EVNAL DCT DCS DCT LAKEY contact London Control - 132.860 MHz;
i) GOMUP DCT GINGA DCT SOSIM contact London Control - 135.580 MHz.

3.22.8.8.2 Flights operating close to the Reykjavik or Shannon northern boundaries should, where possible, establish communications with those units in order to negotiate a re-route to avoid the Scottish FIR.

3.22.9 **Procedures for Flights Flight Planned to enter Shanwick OCA from other Oceanic Centres**

3.22.9.1 Flights within Reykjavik or Santa Maria Oceanic airspace, can anticipate a large re-route to avoid the Shanwick OCA and Scottish FIR. Reykjavik and Santa Maria will issue advice on procedures to be followed.

3.23 Enquiries and Comments

3.23.1 Enquiries and comments about ATS procedures applicable to the Shanwick OCA should be addressed to:

Manager PC Procedures and Development,

Post: Room F-059, NATS Prestwick, Prestwick Centre, Fresson Avenue, Prestwick, Ayrshire, KA9 2GX.

3.23.2 Advice on day-to-day operations is available from Shanwick Oceanic Watch Manager Prestwick.

Phone: 01294-655300.

3.24 Format of NAT Company Preferred Routing Messages (CPR PRM)

Westbound:

(PRIORITY) (DESTINATION ADDRESS)
(DATE TIME OF ORIGIN) (ORIGIN ADDRESS)

(MESSAGE TYPE) — (COMPANY) — (WESTBOUND) — (YYMMDD AT 30W)
(DEP / DEST) (FIRST UK POINT) (ANCHOR POINT) (OCA RPS) (LANDFALL)
(INLAND FIX) (NUMBER OF FLIGHTS (01 — 99))

Note: *If there is no INLAND FIX then the latitude at 80W is to be used.*

Example:

FF EGGXZOZX EGTTZDZX CZQXZQZX CZQMZQZX CZULZQZX CYHQZDZX BIRDZQZX LPPOZOZX KZNYZRZX KCFCZDZX
111824 LSZHSWRW
PRM — SWR — W — 930212 —
LSZH / KJFK BNE BEL 55/10 56/20 57/30 55/40 53/50 YAY TOPPS 02
LSZH / KIAD BNE BURAK 53/15 53/20 52/30 51/40 50/50 YQX TUSKY 01

Eastbound:

(PRIORITY) (DESTINATION ADDRESS)
(DATE TIME OF ORIGIN) (ORIGIN ADDRESS)
(MESSAGE TYPE) — (COMPANY) — (EASTBOUND) — (YYMMDD AT 30W)
(DEP / DEST) (INLAND FIX) (ANCHOR POINT) (OCA RPS) (LANDFALL)
(LAST UK POINT) (NUMBER OF FLIGHTS (01 — 99))

Note: *If there is no INLAND FIX then the latitude at 80W is to be used.*

Example:

FF EGGXZOZX EGTTZDZX CZQXZQZX CZQMZQZX CZULZQZX CYHQZDZX BIRDZQZX LPPOZOZX KZNYZRZX KCFCZDZX
120936 EHAMKLMW
PRM — KLM — E — 930213 —
KJFK / EHAM TOPPS YAY 53/50 53/40 54/30 54/20 54/15 BABAN LAMSO 03
CYMX / EHAM YML FOXXE 57/50 58/40 58/30 57/20 56/10 MAC LAMSO 01

3.25 Format of NAT Company Preferred Route Flight Plan day minus 1 (CPR FPL-1)

3.25.1 The Company Preferred Route Flight Plan day minus 1 (FPL-1) format utilises the standard ICAO flight plan (FPL) format and a predetermined Company Preferred Route Identifier (CPR_ID).

3.25.2 Upon receipt of a flight plan at a dedicated AFTN address (EGGXGATT) the Shanwick Automated Track Tool (ATT) system extracts the Oceanic Route portion from the Company Preferred Route Flight Plan day minus 1 (FPL-1), and correlates this with airline scheduled data which corresponds to the Company Preferred Route Identifier (CPR_ID). This provides Shanwick with both route and traffic loading information accordingly.

3.25.3 The Callsign field of the Company Preferred Route Flight Plan day minus 1 (FPL-1) is utilised to indicate the Company Preferred Route Identifier (CPR_ID). The CPR_ID is a unique designator which must be pre-configured with Shanwick to indicate the departure point and destination pairing.

3.25.4 The preferred route is detailed in the Company Preferred Route (FPL-1) as per a normal flight plan. The Date of Flight (DOF field) in field 18 shall indicate the flight is for the next day's OTS Design.

Examples:

The CPR_ID is a seven character code defined as follows:

Airline ICAO Code	British Airways:	**BAW**
Preferred Route Indicator	P (does not change)	**P**
Westbound	W	**W**
Company Preferred Route ID Number (00-99)	Correlates to set departure/destination	**01**
The resulting CPR_ID in this example is BAWPW01		

Example 1 – ***(Indicating CPR_ID 01 for British Airways)***

CPR (FPL-1) sent to EGGXGATT on the 04/08/2016 for a Westbound OTS Design for the 05/08/2016.

(FPL-**BAWPW01**-IS
-B772/H-SDE1E3FGHIJ3J5J6M1M2RWXYZ/LB1D1
-EGLL1030
-N0487F340 CPT3G CPT Q63 KENET UL9 STU/N0490F360 UL9 SLANY DCT DINIM/M083F360 DCT 50N020W 45N030W 38N040W/M083F380 35N045W 31N050W 20N060W DCT ANU DCT
-TAPA0752
-PBN/A1B1D1O1S2 NAV/RNVD1E2A1 SUR/TCAS DOF/160805 REG/BA777 EET/EISN0032 EGGX0119 50N020W0146

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LPPO0253 KZWY0412 35N045W0452 31N050W0536 20N060W0723 TTZP0743 CODE/4007F9 OPR/BAW RVR/075 RMK/ TCAS)

Example 2 – ***(Indicating CPR_ID 23 for British Airways)***

CPR (FPL-1) sent to EGGXGATT on the 04/08/2016 for a Westbound OTS Design for the 05/08/2016.

(FPL-**BAWPW23**-IS
-B744/H-SDE1E3FGHIJ3J5J6M1M2RWXYZ/LB1D1
-EGLL1030
-N0490F300 CPT5J CPT Q63 KENET N14 UGNUS UN14 BAKUR DCT KORAK DCT CON DCT REVNU/M082F300 DCT SUNOT/M082F300 DCT 59N020W/M082F320 61N030W/M082F340 61N040W/M082F360 DCT NA DCT 61N050W DCT RADUN N822A PEPKI/N0481F360 N822A LOPVI DCT 58N070W
5430N08000W/N0483F380 4930N09000W DCT KP12G/N0489F400 DCT KP84A DCT KD66U DCT EKR J100 BCE GRNPA1
-KLAS0952
-PBN/A1B1D1O1S2 NAV/RNVD1E2A1 SUR/TCAS DOF/160805 REG/BA744 EET/EISN0030 EGGX0056 SUNOT0122 59N020W0146 CZQX0226 61N040W0303 BGGL0307 NA0324 61N050W0342 CZQX0350 RADUN0413 CZUL0427 CZWG0552 KZMP0704 KZDV0807 KZLC0913 KZLA0933 CODE/4006B2 OPR/BAW RVR/075 RMK/NRP TCAS)

3.25.5 **Initial Configuration and Setup for Company Preferred Route Messages FPL-1 Format**

3.25.5.1 Operators who would like to send Company Preferred Route messages via FPL-1 format are required to register by email at CPR@nats.co.uk. Registration is required so that configuration elements are completed prior to message sending.

3.25.5.2 During registration Company Preferred Identifiers (CPR_IDs) will be determined for each scheduled departure point and destination pairing to be flown by the airline and a start date will be provided by the Shanwick.

Example of CPR_ID TABLE

ICAO AL	IATA AL	Carrier1Name	Market Pair (Airport)	Dep Airport	Arr Airport	Unique Market Pair (Route) Name (CPR_ID)
BAW	BA	British Airways	ANU-LGW	LGW	ANU	BAWPW01
BAW	BA	British Airways	ATL-LHR	LHR	ATL	BAWPW02
BAW	BA	British Airways	AUS-LHR	LHR	AUS	BAWPW03
BAW	BA	British Airways	BDA-LGW	LGW	BDA	BAWPW04
BAW	BA	British Airways	BGI-LGW	LGW	BGI	BAWPW05

3.26 DESTINATION ADDRESS CODE:

PRM format:

EGGXZOZX — Shanwick
EGTTZDZX — London FMU
BIRDZQZX — Reykjavik
KCFCZDZX — FAA Central Flow
CZQXZQZX — Gander
CZQMZQZX — Moncton
LPPOZOZX — Santa Maria
CZULZQZX — Montreal
CYHQZDZX — TCA ARU
KZNYZRZX — New York

FPL-1 **format:**
EGGXGATT — Shanwick

Note: *Shanwick can receive Company Preferred Route data in both PRM or FPL-1 formats at EGGXGATT. The AFTN address EGGXZOZX is only available for Company Preferred Route data in PRM format.*

4 En-Route Transponder Mandatory Zones

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Burbo Bank TMZ (Area A) 533215N 0031146W – 533213N 0031406W – 532916N 0030709W – 533215N 0031146W.	3500 FT ——— SFC (Class G)	Warton APP (129.530 MHz) between Mon-Thu 0730-1900 (0630-1800), Fri 0730-1700 (0630-1600).

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Burbo Bank TMZ (Area B) 533213N 0031406W – 532916N 0030709W – 532704N 0030737W – 532550N 0031030W – 532550N 0031939W – 532631N 0032055W – 533213N 0031406W.	2000 FT ——— SFC (Class G)	Warton APP (129.530 MHz) between Mon-Thu 0730-1900 (0630-1800), Fri 0730-1700 (0630-1600).
Burbo Bank TMZ (Area C) 533211N 0032449W – 533213N 0031406W – 532631N 0032055W – 532938N 0032640W – 533211N 0032449W.	FL 45 ——— SFC (Class G)	Warton APP (129.530 MHz) between Mon-Thu 0730-1900 (0630-1800), Fri 0730-1700 (0630-1600).
Note: *See also ENR 6-28. For aircraft equipped with and operating secondary surveillance radar equipment, as defined in GEN 1.5 paragraph 5.3, access to the Burbo Bank TMZ is not subject to ATC approval. Access to the Burbo Bank TMZ without serviceable transponder equipment, as defined in GEN 1.5 paragraph 5.3, is subject to specific approval of the Controlling Authority.*		

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Greater Wash TMZ - the area bounded by: 533420.44N 0005239.24E - 531700.01N 0013011.23E - 531206.6N 0012951.44E - 530328.42N 0011342.33E - 530531.14N 0010510.48E - 531353.77N 0004450.58E - 531727.25N 0004132.09E - 532923.10N 0003801.81E - 533333.56N 0004031.16E - 533420.44N 0005239.24E.	FL 100 ——— SFC (Class G)	Anglia Radar (125.275 MHz (backup 128.925 MHz)) - from surface up to and including FL 65, between 0630-2200 (0530-2100). Swanwick Military (133.325 MHz) - above FL 65 to FL 100, H24. Additionally from surface up to and including FL 65 between 2200-0630 (2100-0530).
Note: *For aircraft equipped with and operating secondary surveillance radar equipment, as defined in GEN 1.5 paragraph 5.3, access to the Greater Wash TMZ is not subject to ATC approval. Access to the Greater Wash TMZ without serviceable transponder equipment, as defined in GEN 1.5 paragraph 5.3, is subject to specific approval of the Controlling Authority.*		

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Humber Gateway TMZ - the area bounded by: 535410N 0001037E - 534902N 0001650E - 534153N 0002245E - 533714N 0002412E - 533258N 0001703E thence in an anti-clockwise direction by an arc of a circle radius 5 NM centred on 532830N 0001315E to 533330N 0001305E - 533902N 0001056E - 534919N 0000046W - 535410N 0001037E.	FL 100 ——— SFC (Class G)	Anglia Radar (128.925 MHz (backup 125.275 MHz)) - from surface up to and including FL 65, between 0630-2200 (0530-2100). Swanwick Military (135.075 MHz) - above FL 65 to FL 100, H24. Additionally from surface up to and including FL 65 between 2200-0630 (2100-0530).
Note: *For aircraft equipped with and operating secondary surveillance radar equipment, as defined in GEN 1.5 paragraph 5.3, access to the Humber Gateway TMZ is not subject to ATC approval. Access to the Humber Gateway TMZ without serviceable transponder equipment, as defined in GEN 1.5 paragraph 5.3, is subject to specific approval of the Controlling Authority.*		

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
London Array (Area A) 513906N 0012459E - 514036N 0012507E - 514305N 0012824E - 514304N 0013112E - 514050N 0013459E - 513722N 0013646E - 513341N 0013627E - 513306N 0013414E - 513325N 0012642E - 513516N 0012327E - 513552N 0012310E - 513906N 0012459E.	FL 65 ——— SFC (Class G)	Southend Radar 130.780 MHz
London Array (Area B) 513906N 0012459E - 513552N 0012310E - 513814N 0012201E - 514036N 0012507E - 513906N 0012459E.	5500 FT ——— SFC (Class G)	Southend Radar 130.780 MHz
Note 1: *Providing aircraft have and operate secondary surveillance radar equipment, as defined in GEN 1.5 paragraph 5.3, access to the London Array TMZ is not subject to ATC approval.* ***Note 2:*** *The pilot of an aircraft that wishes to operate in the London Array TMZ without serviceable transponder equipment as defined in GEN 1-5 paragraph 5.3 may be granted access to the TMZ subject to specific ATC approval. This approval may be obtained from Southend Radar/Approach on frequency 130.780 MHz.*		

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Moray Firth TMZ - the area bounded by: 582151.1871N 0025310.7227W - 582116.1994N 0024224.5231W - 581352.7801N 0023029.6207W - 580642.1273N 0023023.4770W - 575720.6905N 0031638.5461W - 580312.9113N 0031651.1155W - 580801.6231N 0031039.1423W - 581152.8636N 0030449.3381W - 581434.3990N 0030233.8130W - 581936.1622N 0025802.6109W - 582151.1871N 0025310.7227W.	FL 100 _____ SFC (Class E & G)	Lossie Departures (119.575 MHz), H24 from surface up to and including FL 100. Class E approval for VFR transits only.
Note: *For aircraft equipped with and operating secondary surveillance radar equipment, as defined in GEN 1-5 paragraph 5.3, access to the Moray Firth TMZ is not subject to ATC approval. Access to the Moray Firth TMZ without serviceable transponder equipment, as defined in GEN 1-5 paragraph 5.3, is subject to specific approval of the Controlling Authority.* *The TMZ incorporates parts of Y904 (Class E) and EGD809S; the more stringent relevant airspace classification regulations apply.*		

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Neart na Gaoithe TMZ - the area bounded by: 562136.64N 0021426.73W- 561532.40N 0020809.60W- 561228.80N 0020722.80W- 561228.80N 0021619.20W- 561549.59N 0022003.29W- 561725.83N 0022013.94W- 562009.60N 0021825.20W- 562136.64N 0021426.73W.	FL 100 _____ SFC (Class G)	The Controlling Authority is Leuchars. The TMZ is active during the hours of Leuchars LARS provision ((P) 126.505,(S) 123.300 MHz, (U) 292.350 MHz) Mon-Fri 0900-1700 (0800-1600) and other times by NOTAM. Outside of these hours non-transponding aircraft should attempt contact with Leuchars on the published LARS frequencies and pilots are recommended to maintain a listening watch on the Leuchars LARS frequency until exiting.
Note: *For aircraft equipped with and operating secondary surveillance radar equipment, as defined in GEN 1.5 paragraph 5.3, access to the Neart na Gaoithe TMZ is not subject to ATC approval. Access to the Neart na Gaoithe TMZ without serviceable transponder equipment, as defined in GEN 1.5 paragraph 5.3, is subject to specific approval of the Controlling Authority.*		

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Seagreen TMZ (Phase 1) - the area bounded by: 562848.316N 0015621.635W - 562856.706N 0015742.338W - 562919.903N 0015849.297W - 562953.266N 0015935.362W - 563026.418N 0015955.875W - 563100.251N 0015959.339W - 564040.162N 0015951.322W - 564116.339N 0015940.636W - 564144.708N 0015915.968W - 564214.164N 0015826.478W - 564232.981N 0015722.075W - 564239.062N 0015613.168W - 564235.348N 0013542.561W - 564222.592N 0013428.108W - 564158.290N 0013326.897W - 564124.944N 0013212.864W - 564052.426N 0013126.112W - 563235.237N 0012554.843W - 563155.589N 0012541.776W - 563107.564N 0012558.881W - 563024.930N 0012653.949W - 563001.552N 0012804.526W - 562953.254N 0012938.623W - 562848.316N 0015621.635W.	FL 100 _____ SFC (Class D & G)	No Controlling Authority. ATS available from Scottish Information/ Scottish Control as detailed in ENR 6.33. Flights transiting Tay CTA 12 (Class D) when ATS Route P18 is active between waypoints UPGET and OKPAL shall contact Scottish Control (124.500 MHz).
Note: *For aircraft equipped with and operating SSR equipment, as defined in GEN 1-5 paragraph 5.3, access to the Seagreen TMZ (Phase 1) is not subject to ATC approval. The TMZ incorporates parts of P18 (Class D) and EGD613C; within these areas the more stringent relevant airspace classification regulations apply.*		

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Walney TMZ 540745.1N 0033800.0W - 535910.5N 0032140.2W - 535529.17N 0032639.34W - 540636.13N 0035541.49W - 540823.51N 0035539.10W - 540804.0N 0035336.0W - 541049.0N 0034630.0W thence anti-clockwise by the arc of a circle radius 15 NM centred on 541900.0N 0032505.0W to 540634.0N 0033920W - 540745.1N 0033800.0W.	FL 100 ——— SFC (Class G)	Warton APP (129.530 MHz) between Mon-Thu 0730-1900 (0630-1800), Fri 0730-1700 (0630-1600).
Note: *See also ENR 6-28. For aircraft equipped with and operating secondary surveillance radar equipment, as defined in GEN 1.5 paragraph 5.3, access to the Walney TMZ is not subject to ATC approval. Access to the Walney TMZ without serviceable transponder equipment, as defined in GEN 1.5 paragraph 5.3, is subject to specific approval of the Controlling Authority.*		

5 En-Route Radio Mandatory Zones

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
Ekofisk RMZ 563540N 0023642E - 564217.13N 0025020.57E thence clockwise by the arc of a circle radius 5 NM centred on 563832N 0025619E (Albuskjell A) to 564331.37N 0025620.42E - 564328.36N 0031935.09E thence clockwise by the arc of a circle radius 5 NM centred on 563829N 0031932E (Tor) to 563931.88N 0032823.33E - 561207.00N 0033843.00E (DANOR) - 560510N 0031455E - 563540N 0023642E.	1500 FT ——— SFC	Ekofisk HFIS 130.550 MHz

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

6 UK Free Route Airspace - Non-standard Planning Zone (NPZ)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Purpose
EGNPZ1 GOMUP 570000N 0100000W following the line of latitude to - 570000N 0095810.29W - 564500N 0095811.02W following the line of latitude to - 564500N 0100000W - 570000N 0100000W	Upper Limit: FL 660 Lower Limit: FL 255	To prevent traffic from filling a flight plan across the NOTA/Scottish UIR boundary and conflicting with traffic entering or leaving Shanwick Oceanic airspace via GOMUP. Shall not prevent use of GOMUP as an Entry and Exit from FRA.
EGNPZ2 GUNPA 604500N 0000000E following the line of latitude to - 604500N 0000202.26W - 610000N 0000203.22W following the line of latitude to - 610000N 0000000E - 604500N 0000000E	Upper Limit: FL 660 Lower Limit: FL 255	To prevent traffic from filling a flight plan across the Polaris/Scottish UIR boundary and conflicting with traffic entering or leaving Reykjavik Oceanic airspace via GUNPA. Shall not prevent use of GUNPA as a crossing point between Polaris and Reykjavik UIRs.
EGNPZ3 WEST NPZ 3 515232.28N 0024010.91W - 524354.41N 0024121.20W - 524443.68N 0024250.72W - 515252.89N 0024426.80W - 502125.60N 0030449.43W - 501945.78N 0030057.03W - 515232.28N 0024010.91W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ4 WEST NPZ 4 525400.43N 0025127.56W - 525357.04N 0025033.17W - 515258.18N 0025249.02W - 503149.80N 0030806.14W - 504155.35N 0031128.89W - 515254.95N 0025712.89W - 525400.43N 0025127.56W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ5 WEST NPZ 5 524901.25N 0030041.94W - 524905.00N 0025908.55W - 515225.52N 0030458.06W - 502548.78N 0032033.18W - 502830.84N 0032327.46W - 515237.45N 0030811.10W - 524901.25N 0030041.94W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ6 WEST NPZ 6 524331.96N 0031324.32W - 524333.84N 0031214.24W - 514428.44N 0031709.99W - 502232.59N 0033253.61W - 502609.35N 0033607.45W - 513849.08N 0032151.59W - 524331.96N 0031324.32W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ7 WEST NPZ 7 525424.21N 0031452.52W - 525429.44N 0031716.49W - 523653.49N 0032636.07W - 515701.32N 0033257.83W - 494050.61N 0035225.34W - 494105.00N 0034912.00W - 515714.71N 0032638.20W - 523656.80N 0032324.01W - 525424.21N 0031452.52W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ8 WEST NPZ 8 522000.00N 0053000.00W - 514624.84N 0014120.19W - 514323.89N 0014118.50W - 521502.10N 0053000.00W - 522000.00N 0053000.00W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Purpose
EGNPZ9 WEST NPZ 9 520557.01N 0050228.17W - 515420.01N 0032420.63W - 514757.76N 0023846.62W - 515056.17N 0032840.85W - 520230.02N 0050100.39W - 520557.01N0050228.17W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ10 WEST NPZ 10 514141.64N 0014827.94W - 513956.97N 0014842.45W - 513937.94N 0022445.85W - 514409.13N 0033454.21W - 515551.57N 0050732.32W - 520037.42N 0051836.75W - 515904.68N 0050457.05W - 514756.26N 0033438.00W - 514239.53N 0015547.90W - 514141.64N 0014827.94W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ11 WEST NPZ 11 514840.78N 0050540.20W - 515245.80N 0051912.90W - 515310.90N 0051355.47W - 514055.53N 0033435.14W - 513327.53N 0014013.64W - 512932.76N 0014129.61W - 513720.16N 0033651.76W - 514840.78N 0050540.20W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ12 WEST NPZ 12 512314.52N 0014537.95W - 512709.27N 0014250.98W - 513331.62N 0033615.95W - 514408.88N 0044650.29W - 515105.30N 0055829.55W - 514633.42N 0060342.44W - 514249.13N 0044659.98W - 513021.80N 0033654.63W - 512314.52N 0014537.95W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.
EGNPZ13 WEST NPZ 13 511758.38N 0013459.68W - 512704.32N 0034420.14W - 514343.55N 0063229.94W - 514153.33N 0063325.89W - 512403.05N 0034336.90W - 511758.38N 0013459.68W	Upper Limit: FL 660 Lower Limit: FL 245	To segregate and manage complex traffic flows at the flight planning stage.

ENR 2.2 OTHER REGULATED AIRSPACE (continued)

7 Channel Islands Airspace - EGJT

Purpose: To describe the complete volume of airspace delegated to Jersey by both the UK and French authorities and collectively identified as Channel Islands Airspace with the ICAO designator: EGJT.

<table>
<tr><th colspan="3">CHANNEL ISLANDS AIRSPACE - ICAO: EGJT</th></tr>
<tr><th>Vertical Limits, Classification and associated FIRs</th><th>Lateral Limits</th><th>Remarks</th></tr>
<tr><td>[TMA] FL 80 - FL 195 Class A Airspace
[CTA] FL 55 - FL 80 Class D Airspace

(London FIR & Brest FIR)</td><td>500000N 0030000W –
493500N 0030000W –
500000N 0032000W following the line of latitude to –
500000N 0030000W.</td><td rowspan="3">Controlling Authority: JERSEY ATC

0545-2100 (0445-2030) and by arrangement.

Outside Jersey notified hours the airspace adopts the classification appropriate to airway or uncontrolled airspace designation, as appropriate for the respective FIR, as detailed in the UK and France AIPs.

During the notified hours of operation of Jersey ATC, the airspace is operated in accordance with Air Navigation (Jersey) Law 2014 and Air Navigation (Rules of the Air) (Jersey) Regulations 2017.
Note: Regulations as per Standardised European Rules of the Air (SERA) but established by the Air Navigation (Jersey) Law 2014.

UK SERA derogations do not apply in Channel Island Airspace

JERSEY MET issue SIGMET for EGJT.</td></tr>
<tr><td>[TMA] FL 80 - FL 195 Class A Airspace
[CTA] 3500 FT ALT - FL 80 Class D Airspace

(Brest FIR)</td><td>500000N 0020000W following the line of latitude to –
500000N 0014700W –
494400N 0020000W –
500000N 0020000W.</td></tr>
<tr><td>[TMA] FL 80 - FL 195 Class A Airspace
[CTR] SFC - FL 80 Class D Airspace

(London FIR & Brest FIR)</td><td>500000N 0020000W –
493000N 0020000W –
490200N 0014000W following the line of latitude to –
490200N 0030000W –
500000N 0030000W following the line of latitude to –
500000N 0020000W.</td></tr>
<tr><td colspan="3">***Note:*** *The above airspace is an amalgamation of the Channel Islands CTA1 North, CTA1 South, CTA2, CTR North, CTR South, TMA North & TMA South as detailed in ENR 2.1 and EGJJ AD 2.17 and identified on chart ENR 6-40.*</td></tr>
<tr><td colspan="3">Forecast and SIGMET services within Channel Islands Airspace are provided by JERSEY MET (EGJX).</td></tr>
</table>

ENR 3 ROUTES

ENR 3.1 CONVENTIONAL NAVIGATION ROUTES

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ENR 3.2 AREA NAVIGATION ROUTES

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L6						
△ DOVER DME (DVR)	510945.44N 0012132.71E					Eastbound route only above FL 245. Extremity of L6. Intersection with (U)L9, L10 and L18.
(RNAV 5)	286°/105°	30.0 NM	FL 460 / FL 85	even FL 240 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between DET and 5 NM east of DET: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 255); Freq: 134.905 (Below FL 255 to FL 195); Freq: 120.530 (Below FL 195). Between 5 NM east of DET and 15 NM before DVR: London ACC Freq: 127.430 (FL 305 and above); Freq: 135.325 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275). Between 15 NM before DVR and DVR: London ACC Freq: 127.430 (FL 305 and above); Freq: 134.905 (Below FL 305).
△ DETLING DME (DET)	511814.41N 0003550.19E					Extremity of L6.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L7						
△ LONAM	535022.32N 0035633.03E					UIR Boundary.
(RNAV 5)	338°/158°	9.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ WECOW	535916.41N 0035103.10E					Intersection with N866.
(RNAV 5)	338°/158°	20.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ VENAS	541819.85N 0033908.23E					Eastbound route only below FL 245 btn GOLVO and VENAS. Intersection with L74.
(RNAV 5)	338°/158°	6.8 NM	FL 460 / FL 195	even FL 430 / FL 260	odd FL 450 / FL 210	Class C. Scottish ACC Freq: 121.325 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ GOLVO	542440.69N 0033507.52E					
(RNAV 5)	338°/158°	15.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ PELET	543912.33N 0032551.54E					Intersection with P58.
(RNAV 5)	338°/158°	19.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ASKAM	545747.34N 0031349.91E					Intersection with UP59.
(RNAV 5)	331°/151°	31.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ TIMUP	552527.79N 0024829.63E					FRA Entry/Exit Point. Extremity of L7.
Route Remarks: LONAM - VENAS CDR H24. Rest of L7 - PERM.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L8						
△ BUGUP	515237.17N 0013659.89W					Eastbound route only btn STAFA and BUGUP. Extremity of L8.
(RNAV 5)	- /177°	9.0 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ NANUM	520134.97N 0013747.00W					Intersection with L151.
(RNAV 5)	- /176°	19.9 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Intersection with L10, L15, L612, N859 and P155.
(RNAV 5)	- /145°	37.0 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.390 for traffic via L612 and N859 (FL 195 and above); Freq: 129.205 for traffic via L15 and P155 (FL 195 and above); Scottish ACC Freq: 134.430 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ STAFA	525141.00N 0021434.55W		DTY R314 58.2 NM 600 FT			Intersection with P18.
(RNAV 5)	325°/145°	20.3 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ NANTI	530814.54N 0023400.51W		WAL R127 25.5 NM 55 FT			Westbound route only btn NANTI and TADAL. Intersection with Y53.
(RNAV 5)	325°/ -	3.5 NM	FL 245 / FL 75	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ UMKIL	531105.53N 0023723.06W					
(RNAV 5)	331°/ -	8.1 NM	FL 245 / FL 75	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ VABKA	531808.31N 0024410.02W					
(RNAV 5)	331°/ -	12.2 NM	FL 245 / FL 75	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ ASNIP	532843.09N 0025425.97W					Intersection with L28.
(RNAV 5)	328°/ -	7.8 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. Scottish ACC Freq: 118.780 (All levels).
△ TADAL	533513.83N 0030135.22W					Extremity of L8. Intersection with L70.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L9						
△ KONAN	510750.75N 0020000.00E					FIR Boundary. Intersection with (U)L607 (see AIP Belgium).
(RNAV 5)	274°/093°	24.3 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 135 and above); Freq: 135.325 (Below FL 135).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ DOVER DME (DVR)	510945.44N 0012132.71E					Intersection with L18.
(RNAV 5)	281°/101°	13.2 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ UMTUM	511227.30N 0010102.78E					
(RNAV 5)	281°/101°	11.9 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ EMKAD	511449.88N 0004233.94E					
(RNAV 5)	281°/100°	15.1 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ DIKVU	511746.89N 0001901.84E					
(RNAV 5)	280°/100°	10.8 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					
(RNAV 5)	281°/101°	8.1 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 132.165 (All Levels).
△ GOXUL	512132.02N 0001033.49W					
(RNAV 5)	281°/101°	36.3 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 132.165 (All Levels).
△ NORRY	512847.11N 0010724.13W					
(RNAV 5)	281°/101°	3.7 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 132.165 (All Levels).
△ COMPTON VOR/DME (CPT)	512929.66N 0011310.89W					Westbound route only btn CPT and SLANY. Intersection with Q63.
(RNAV 1)	317°/ -	9.6 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (FL 155 and below).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ DIDZA	513627.71N 0012343.46W					
(RNAV 1)	298°/ -	12.3 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. Dual designation with N14 between DIDZA and BIBPE. London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265).
△ OKSAW	514215.31N 0014108.54W					FRA Entry Point.
(RNAV 1)	276°/ -	6.3 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Dual designation with N14 between DIDZA and BIBPE. London ACC Freq: 134.755 (All Levels).
△ BIBPE	514258.91N 0015108.70W					Base level change is aligned with Cotswold CTA 6.
(RNAV 1)	276°/ -	10.1 NM	FL 245 / FL 125	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.755 (All Levels).
△ KITFE	514407.29N 0020715.54W					
(RNAV 1)	276°/ -	15.4 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 134.755 (All Levels).
△ ELWIS	514547.16N 0023149.08W					
(RNAV 1)	276°/ -	3.0 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 134.755 (All Levels).
△ BUCGO	514606.08N 0023637.20W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
(RNAV 1)	276°/ -	22.7 NM	FL 245 / FL 135	even FL 240 / FL 140		Between BUCGO and the western boundary of Cotswold CTA 15 (514640N 0024524W): Class C. London ACC Freq: 134.755 (All Levels). Between the western boundary of Cotswold CTA 15 (514640N 0024524W) and TIGWE: FL 245/FL 195 Class C, FL 195/FL 135 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ TIGWE	514822.73N 0031257.91W					
(RNAV 1)	276°/ -	3.8 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ARPAK	514844.64N 0031905.48W					
(RNAV 1)	276°/ -	8.2 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ FELCA	514930.86N 0033219.61W					
(RNAV 1)	282°/ -	3.6 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ AGBOS	515014.72N 0033756.19W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 1)	282°/ -	8.0 NM	FL 245 / FL 125	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 129.380 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 129.380 (All Levels).
△ ACCAQ	515152.62N 0035035.63W					
(RNAV 1)	282°/ -	5.3 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. 0600-2300 (0500-2200) London ACC Freq: 129.380 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 129.380 (All Levels).
△ FADZU	515256.10N 0035854.33W					
(RNAV 1)	282°/ -	40.6 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ NICXI	520046.40N 0050317.78W					Intersection with M17, N546 and Q63.
(RNAV 5)	281°/ -	5.3 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ OFSOX	520145.18N 0051143.62W					Intersection with N83.
(RNAV 5)	289°/ -	25.2 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ SLANY	520930.80N 0055031.67W					FIR Boundary. For continuation see AIP Ireland.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
L10						
△ RINTI	510158.33N 0013655.91E					Eastbound route only btn DVR and RINTI FL 245 and above. FIR/UIR boundary. Intersection with B3 and UL10 (See AIP France).
(RNAV 5)	308°/128°	12.4 NM	FL 315 / FL 65	even FL 240 / FL 80	odd FL 310 / FL 70	FL 315/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.905 (FL 135 and above); Freq: 135.325 (Below FL 135).
△ DOVER DME (DVR)	510945.44N 0012132.71E					
(RNAV 5)	302°/122°	13.7 NM	FL 460 / FL 75	even FL 430 / FL 80	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 134.905 (Below FL 305 to FL 135); Freq: 135.325 (Below FL 135).
△ ITVIP	511713.75N 0010312.30E					Intersection with Q70.
(RNAV 5)	302°/122°	40.1 NM	FL 460 / FL 75	even FL 430 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 134.905 (FL 305 to FL 135); Freq: 135.325 (Below FL 135).
△ LAMBOURNE DME (LAM)	513845.69N 0000906.13E					Westbound route only btn LAM and BPK FL 245 and above.
(RNAV 5)	302°/122°	11.5 NM	FL 460 / FL 75	even FL 430 / FL 100	odd FL 230 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					
(RNAV 5)	305°/124°	20.2 NM	FL 460 / FL 75	even FL 430 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. Between BPK and 10 NM before BUZAD: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 295); Freq: 127.105 (Below FL 295). Between 10 NM before BUZAD and BUZAD: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115). Between 10 NM NW of BPK and BUZAD: London ACC Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).
△ BUZAD	515632.08N 0003308.21W		BNN R359 13.0 NM 558 FT			
(RNAV 5)	304°/124°	8.2 NM	FL 460 / FL 75	even FL 430 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below 215 to FL 165); Freq: 130.925 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).
△ WOBUN	520110.27N 0004400.00W		DTY R123 17.1 NM 600 FT			
(RNAV 5)	304°/124°	17.1 NM	FL 460 / FL 65	even FL 430 / FL 80	odd FL 450 / FL 70	FL 460/FL 195 Class C, FL 195/FL 65 Class A. Between WOBUN and 7 NM before DTY: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 215); Freq: 130.925 (Below FL 215). Between 7 NM before DTY and DTY: London ACC Freq: 129.205 (FL 215 and above); Freq: 130.925 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					
(RNAV 5)	298°/117°	22.9 NM	FL 460 / 5500 FT ALT	even FL 460 / 6000 FT ALT	odd FL 450 / FL 70	FL 460/FL 195 Class C, FL 195/ALT 5500 FT Class A. London ACC Freq: 129.205 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Eastbound route only btn WAL and HON. Intersection with L15, L612, N859 and P155.
(RNAV 5)	- /139°	82.0 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between WAL and abm Crewe: London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195). Between abm Crewe and abm Birmingham: London ACC Freq: 134.390 for traffic via L612 and N859 (FL 195 and above); Freq: 129.205 for traffic via L15 and P155 (FL 195 and above); Scottish ACC Freq: 134.430 (Below FL 195). Between abm Birmingham and HON: London ACC Freq: 134.390 for traffic via L612 and N859 (FL 195 and above); Freq: 129.205 for traffic via L15 and P155 (FL 195 and above); Freq: 130.925 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Intersection with L151, (U)L975, N862 and (U)Y53.
(RNAV 5)	306°/126°	23.2 NM	FL 460 / FL 75	even FL 430 / FL 80	odd FL 450 / FL 90	Class C. Between WAL and 8 NM north of WAL: London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195). Between 8 NM north of WAL and PENIL: London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ PENIL	533657.47N 0033948.72W		WAL R306 23.2 NM 55 FT			Intersection with (U)L70 and M144.
(RNAV 5)	306°/126°	22.6 NM	FL 460 / FL 75	even FL 430 / FL 80	odd FL 450 / FL 90	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ CASEL	534952.13N 0041056.75W					
(RNAV 5)	306°/126°	7.8 NM	FL 460 / FL 45	even FL 430 / FL 60	odd FL 450 / FL 50	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ KELLY	535419.47N 0042150.52W		IOM R125 17.2 NM 567 FT			FRA Entry/Exit Point.
(RNAV 5)	306°/126°	17.2 NM	FL 255 / FL 45	even FL 240 / FL 60	odd FL 250 / FL 50	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ ISLE OF MAN VOR/DME (IOM)	540401.12N 0044548.50W					Intersection with L603.
(RNAV 5)	307°/127°	14.0 NM	FL 255 / FL 45	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ SLYDA	541204.37N 0050515.07W					
(RNAV 5)	307°/127°	20.7 NM	FL 255 / FL 45	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. Scottish ACC Freq: 123.775 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ RINGA	542354.44N 0053415.66W					Intersection with Q39.
(RNAV 5)	307°/126°	12.3 NM	FL 255 / FL 45	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. Scottish ACC Freq: 123.775 (FL 105 and above); Aldergrove Radar Freq: 133.125 (Below FL 105).
△ DUFFY	543053.42N 0055138.80W					Intersection with L15.
(RNAV 5)	306°/126°	15.6 NM	FL 255 / FL 45	even FL 240 / FL 60	odd FL 250 / FL 50	FL 255/FL 195 Class C, FL 195/FL 45 Class D. Scottish ACC Freq: 123.775 (FL 105 and above); Aldergrove Radar Freq: 133.125 (Below FL 105).
△ BELZU	543940.00N 0061348.00W					Extremity of L10.

Route Remarks:
During the notified hours of operation of the Isle of Man CTR/CTA the controlling authority for traffic FL 105 and below btn CASEL and SLYDA will be Ronaldsway Radar Frequency 135.905.

DVR - RINTI FL 245 and above only CDR H24.
Rest of L10 - PERM.

See also ENR 1.1, paragraph 1.1.3.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
L15						
△ MOTOX	505727.52N 0012800.00E					Eastbound route only btn SANDY and MOTOX. UIR Boundary. For continuation see AIP France.
(RNAV 5)	- /112°	16.4 NM	FL 460 / FL 245		odd FL 450 / FL 350	Class C. Between 10 NM before MOTOX and MOTOX: London ACC Freq: 127.430 (FL 305 and above); Freq: 135.325 (Below FL 305). Between SANDY and 10 NM before MOTOX: London ACC Freq: 127.430 (FL 305 and above); Freq: 135.325 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ SANDY	510350.81N 0010403.13E		DET R128 22.9 NM 645 FT			
(RNAV 5)	292°/111°	42.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 310	Class C. Between SANDY and 20 NM before BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 135.325 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275). Between 20 NM before BIG and BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 255); Freq: 134.905 (Below FL 255).
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					Eastbound only route between DUFFY and BIG. Intersection with (U)L9.
(RNAV 5)	- /134°	40.0 NM	FL 460 / FL 155		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. Between 20 NM before BIG and BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215). Between 35 NM before BIG and 20 NM before BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (FL 215 and above); Freq: 135.805 (Below FL 215). Between BETPO and 35 NM before BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ BETPO	514754N 0004328W					
(RNAV 5)	- /134°	17.1 NM	FL 460 / FL 115		odd FL 450 / FL 130	FL 460/FL 195 Class C, FL 195/FL 115 Class A. Between 10 NM before BETPO and BETPO: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165). Between FINMA and 10 NM before BETPO: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215).
△ FINMA	515947.21N 0010313.34W		DTY R168 11.3 NM 600 FT			Intersection with M605.
(RNAV 5)	- /134°	3.0 NM	FL 460 / FL 115		odd FL 450 / FL 130	FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215).
△ PIXUP	520151N 0010640W					Manchester TMA departures that FPL a cruising level at FL 310 or above, will be required to achieve FL 310 by PIXUP.
(RNAV 5)	- /134°	28.3 NM	FL 460 / FL 115		odd FL 450 / FL 130	FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 129.205 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Intersection with P155.
(RNAV 5)	- /132°	40.4 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 129.205 (FL195 and above); Scottish ACC Freq: 134.430 (Below FL 195).
△ KEPAD	524835.41N 0022844.28W					Intersection with L151.
(RNAV 5)	- /132°	19.9 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 134.430 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ RISLA	530151.39N 0025312.29W					Intersection with N862.
(RNAV 5)	- /132°	14.8 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ AMPIT	531139.41N 0031132.59W					
(RNAV 5)	- /132°	12.6 NM	FL 460 / FL 145		odd FL 450 / FL 150	Between EPOXI and 531437N 0031707W: Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195). Between 531437N 0031707W and AMPIT: FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ EPOXI	531958.70N 0032717.71W					
(RNAV 5)	- /132°	7.3 NM	FL 460 / FL 145		odd FL 450 / FL 150	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ MALUD	532448.17N 0033630.30W		WAL R275 17.1 NM 55 FT			
(RNAV 5)	- /128°	22.0 NM	FL 460 / FL 145		odd FL 450 / FL 150	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ GIGTO	533801.06N 0040550.62W					
(RNAV 5)	- /128°	18.3 NM	FL 460 / FL 145		odd FL 450 / FL 150	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ SOSIM	534855.75N 0043030.46W					FRA Exit Point.
(RNAV 5)	- /128°	16.1 NM	FL 255 / FL 145		odd FL 250 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ MAKUX	535829.90N 0045227.89W					
(RNAV 5)	- /128°	22.0 NM	FL 255 / FL 145		odd FL 250 / FL 150	Between VAKPO and 540305N 0050307W: FL 255/FL 195 Class C, FL 195/FL 145 Class D. Between 540305N 0050307W and MAKUX: Class C. Scottish ACC Freq: 123.775 (All Levels).
△ VAKPO	541125.09N 0052239.23W					
(RNAV 5)	- /128°	8.3 NM	FL 255 / FL 145		odd FL 250 / FL 150	FL 255/FL 195 Class C, FL 195/FL 145 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ PEPOD	541616.31N 0053409.26W					Intersection with L603 and Q38.
(RNAV 5)	- /147°	17.9 NM	FL 255 / FL 85		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 85 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ DUFFY	543053.42N 0055138.80W					Extremity of L15.
Route Remarks: SANDY - MOTOX CDR H24. Rest of L15 - PERM.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
L17						
△ MOLIX	524919.21N 0030407.22E					Eastbound route only. FIR Boundary. For continuation see AIP Netherlands. Intersection with L19 (See AIP Netherlands).
(RNAV 5)	- /110°	22.2 NM	FL 245 / FL 175		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. ATS delegated to Amsterdam ACC.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ RAMID	525727.79N 0023000.00E					
(RNAV 5)	- /110°	15.8 NM	FL 245 / FL 175		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 128.130 (All Levels).
△ BODSO	530308.25N 0020540.71E					Extremity of L17.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L18						
△ VABIK	511447.30N 0020000.00E					FIR Boundary. Extremity of L18. Eastbound route only btn DVR and VABIK. Intersection with Q70 (see AIP Belgium).
(RNAV 5)	- /077°	24.7 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between DVR and 5 NM from DVR: London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195 to FL 135); Freq: 135.325 (Below FL 135). Between 5 NM from DVR and VABIK: London ACC Freq: 134.905 (FL 135 and above); Freq: 135.325 (Below FL 135).
△ DOVER DME (DVR)	510945.44N 0012132.71E					Intersection with L9.
(RNAV 5)	259°/079°	15.6 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between DVR and 10 NM from DVR: London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL195 to FL135); Freq: 135.325 (Below FL 135). Between 10 NM from DVR and WIZAD: London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ WIZAD	510700.00N 0005711.09E		DVR R259 15.6 NM 325 FT			
(RNAV 5)	259°/078°	32.2 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between WIZAD and 10 NM from WIZAD: London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195). Between 10 NM from WIZAD and MAY: London ACC Freq: 128.430 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ MAYFIELD DME (MAY)	510101.86N 0000658.04E					
(RNAV 5)	274°/094°	28.2 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between MAY and 5 NM from MAY: London ACC Freq: 128.430 (FL 195 and above); Freq: 120.530 (Below FL 195). Between 5 NM from MAY and 18 NM from MAY: London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175). Between 18 NM from MAY and MID: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					Intersection with L151, L620 and (U)L612.
(RNAV 5)	307°/127°	19.9 NM	FL 460 / FL 165	even FL 430 / FL 240	odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 165 Class A. Between MID and 15 NM from MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175). Between 15 NM from MID and VAPID: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ VAPID	511513.97N 0010242.40W					
(RNAV 5)	307°/127°	5.9 NM	FL 460 / FL 65	even FL 430 / FL 240	odd FL 450 / FL 70	FL 460/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175).
△ NIGIT	511846.96N 0011014.71W		MID R306 25.8 NM 233 FT			
(RNAV 5)	303°/123°	2.8 NM	FL 460 / FL 65	even FL 430 / FL 240	odd FL 450 / FL 70	FL 460/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155).
△ NUBRI	512016.68N 0011355.99W					Eastbound route only btn CONKO and NUBRI. Intersection with N14 and Y321.
(RNAV 5)	- /115°	18.5 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265).
△ NUCHU	512808.10N 0014035.43W					FRA Exit Point. Intersection with L607, P73 and Q295.
(RNAV 5)	- /096°	11.8 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Dual designation with L607 between NUCHU and UNZIB. London ACC Freq: 134.755 (All Levels).
△ UNZIB	512929.62N 0015920.96W					
(RNAV 5)	- /162°	7.7 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.755 (All Levels).
△ CONKO	513648.00N 0020310.18W					Extremity of partition of L18.
(RNAV)						ROUTE BREAK - THIS ATS ROUTE IS NOT CONTINUOUS.
△ LANON	522551.90N 0042220.94W					Westbound route only btn LANON and LIPGO. Extremity of partition of L18.
(RNAV 5)	314°/ -	20.0 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 129.380 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ BADSI	523930.00N 0044617.12W					
(RNAV 5)	314°/ -	11.0 NM	FL 245 / FL 145	even FL 240 / FL 160		Class C. ATS delegated to Dublin ATC.
△ ABLIN	524657.86N 0045933.38W					
(RNAV 5)	314°/ -	19.0 NM	FL 245 / FL 85	even FL 240 / FL 100		Class C. ATS delegated to Dublin ATC.
△ IRKUM	525947.90N 0052239.45W					
(RNAV 5)	314°/ -	6.0 NM	FL 245 / FL 55	even FL 240 / FL 60		Class C. ATS delegated to Dublin ATC.
△ LIPGO	530350.13N 0053000.00W					FIR/UIR Boundary. For continuation see AIP Ireland.
Route Remarks: LANON - LIPGO CDR H24. Rest of L18 - PERM. See also ENR 1.1, paragraph 1.1.3. During periods of North Wales MTA activation L18 LANON - LIPGO will not be avbl. Non-availability of L18 will be notified to GAT by London Control and traffic will be re-routed via PEMOB.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
L22						
△ SKERY	500000.00N 0031023.06W		BHD R153 26.9 NM 218 FT			Westbound route only. Extremity of L22.
(RNAV 1)	301°/ -	6.6 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (All Levels).
△ EMWIP	500319.72N 0031908.98W					Extremity of L22.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
L28						
△ TRENT DME (TNT)	530314.23N 0014011.90W					Westbound route only btn TNT and ASNIP. Extremity of L28.
(RNAV 5)	328°/ -	13.1 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. Scottish ACC Freq: 118.780 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ RODOL	531417N 0015143W					Intersection with P6.
(RNAV 5)	297°/ -	16.1 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. Scottish ACC Freq: 118.780 (All Levels).
△ MANCHESTER DME (MCT)	532125.29N 0021544.24W					
(RNAV 5)	288°/ -	24.3 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. Scottish ACC Freq: 118.780 (All Levels).
△ ASNIP	532843.09N 0025425.97W					Intersection with L8.
(RNAV 5)	288°/108°	20.4 NM	FL 245 / FL 195	even FL 240 / FL 200	odd FL 230 / FL 210	Class C. Scottish ACC Freq: 118.780 (All Levels).
△ AGLIL	533441.99N 0032711.30W					
(RNAV 5)	288°/108°	7.9 NM	FL 245 / FL 195	even FL 240 / FL 200	odd FL 230 / FL 210	Class C. Scottish ACC Freq: 118.780 (All Levels).
△ PENIL	533657.47N 0033948.72W		WAL R306 23.2 NM 55 FT			Intersection with L70 and M144.
(RNAV 5)	293°/113°	11.0 NM	FL 245 / FL 145	even FL 240 / FL 160	odd FL 230 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ DANDI	534103.71N 0035658.08W					Intersection with Q39.
(RNAV 5)	293°/113°	5.2 NM	FL 245 / FL 145	even FL 240 / FL 160	odd FL 230 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ LELDO	534259.53N 0040507.00W					Eastbound route only btn SOSIM and LELDO.
(RNAV 5)	- /113°	16.2 NM	FL 245 / FL 145		odd FL 230 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ SOSIM	534855.75N 0043030.46W					Extremity of L28.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L37						
△ OVZOG	505106.32N 0071529.77W					Extremity of L37.
(RNAV 5)	335°/155°	26.1 NM	FL 245 / FL 135	even FL 240 / FL 140	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 132.950 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ LEDGO	511423.78N 0073404.65W					FIR Boundary. Extremity of L37.
Route Remarks: CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L38						
△ CANZI	510121.30N 0065812.04W					Extremity of L38.
(RNAV 5)	318°/139°	24.7 NM	FL 245 / FL 135	even FL 240 / FL 140	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 132.950 (All Levels).
△ SAMON	511921N 0072504W					FIR Boundary. Extremity of L38.
Route Remarks: CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L46						
△ NALAX	532859.89N 0002405.94E					Westbound route only. Extremity of L46.
(RNAV 5)	282°/ -	11.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ LIBSO	533129.33N 0000536.32E					
(RNAV 5)	282°/ -	14.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ESHIN	533437.20N 0001813.05W					Intersection with N110.
(RNAV 5)	282°/ -	21.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ MITSO	533906.86N 0005337.75W					
(RNAV 5)	282°/ -	19.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between MITSO and 10 NM before RIMTO: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285). Between 10 NM before RIMTO and RIMTO: London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ RIMTO	534303.25N 0012558.78W					Intersection with UY250.
(RNAV 5)	282°/ -	5.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ HALIF	534406.31N 0013450.10W					
(RNAV 5)	281°/ -	69.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 118.780 (Below FL 285).
△ GETNO	535547.97N 0032947.06W					FRA Entry Point. Extremity of L46.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L60						
△ ENZEN	525839.07N 0031157.12E					Westbound route only btn ENZEN and OTBED. FIR/UIR Boundary. For continuation see AIP Netherlands.
(RNAV 5)	286°/ -	26.5 NM	FL 460 / FL 175	even FL 430 / FL 180		FL 460/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 245). ATS delegated to Amsterdam ACC below FL 245.
△ SOPEK	530631.88N 0023000.00E					Intersection with L989.
(RNAV 5)	277°/ -	89.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between SOPEK and 0010000E: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355). Between 0010000E and OTBED: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ OTBED	531716.71N 0000154.61E					Btn OTBED and MAMUL FL 245 and above the route is westbound only, below FL 245 the route is eastbound only. Intersection with Y70.
(RNAV 5)	280°/099°	16.0 NM	FL 460 / FL 155	even FL 430 / FL 260	odd FL 230 / FL 190	FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ ENCOD	531959.32N 0002423.92W					
(RNAV 5)	279°/099°	9.1 NM	FL 460 / FL 125	even FL 430 / FL 260	odd FL 230 / FL 190	FL 460/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.125 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NISBI	532129N 0003921W					Base level change point is not at right angles to the CL of L60 and follows a perpendicular line to the CL of L603 until it reaches the southern bdry of Y70, where it then follows a perpendicular line to the CL of Y70.
(RNAV 5)	279°/099°	9.8 NM	FL 460 / FL 105	even FL 430 / FL 260	odd FL 230 / FL 190	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ DOPEK	532303.95N 0005531.64W		POL R116 47.3 NM 1438 FT			
(RNAV 5)	279°/099°	4.0 NM	FL 460 / FL 105	even FL 430 / FL 260	odd FL 230 / FL 190	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ ARTIX	532342.08N 0010208.72W					
(RNAV 5)	279°/099°	6.5 NM	FL 460 / FL 105	even FL 430 / FL 260	odd FL 230 / FL 190	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ MOGMO	532443N 0011251W					Base level change point is not at right angles to the CL of L60 and extends between 532932N 0011019W and 531954N 0011523W.
(RNAV 5)	279°/099°	2.4 NM	FL 460 / FL 85	even FL 430 / FL 260	odd FL 230 / FL 190	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ MAMUL	532505.20N 0011648.45W					Intersection with L603.
(RNAV 5)	279°/099°	9.3 NM	FL 460 / FL 85	even FL 430 / FL 260	odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
← △ ADELU	532630.48N 0013212.64W					Westbound route only btn ADELU and PENIL.
(RNAV 5)	279°/ -	10.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BOLBI	532759.75N 0014845.07W					
(RNAV 5)	279°/ -	13.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ SONEX	532952.70N 0021020.86W		POL R189 15.0 NM 1438 FT			
(RNAV 5)	279°/ -	53.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ PENIL	533657.47N 0033948.72W		WAL R306 23.2 NM 55 FT			Extremity of L60. Intersection with L10 and UL70.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
L70						
△ DESIG	533138.13N 0015333.70W		POL R149 15.0 NM 1438 FT			Intersection with L603 and L975. Extremity of L70.
(RNAV 5)	276°/095°	31.0 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ KOLID	533425.70N 0024520.23W					
(RNAV 5)	275°/095°	9.7 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 85 Class C (see Route Remarks). Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ TADAL	533513.83N 0030135.22W					
(RNAV 5)	275°/095°	5.0 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	Class C. Scottish ACC Freq: 128.055 (All levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ GUNTU	533537.40N 0030953.64W					Intersection with Z196.
(RNAV 5)	275°/095°	17.9 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ PENIL	533657.47N 0033948.72W		WAL R306 23.2 NM 55 FT			Westbound route only btn PENIL and BAGSO. Intersection with L10 and M144.
(RNAV 5)	275°/ -	10.1 NM	FL 245 / FL 75	even FL 240 / FL 80		Class C. Scottish ACC Freq: 133.050 (All Levels).
△ BABRA	533739.37N 0035642.63W					
(RNAV 5)	275°/ -	5.4 NM	FL 245 / FL 115	even FL 240 / FL 120		Class C. Scottish ACC Freq: 133.050 (All Levels).
△ GIGTO	533801.06N 0040550.62W					
(RNAV 5)	275°/ -	7.6 NM	FL 245 / FL 115	even FL 240 / FL 120		Class C. Scottish ACC Freq: 133.050 (All Levels).
△ UNDUX	533830.25N 0041838.76W					
(RNAV 5)	275°/ -	5.1 NM	FL 245 / FL 145	even FL 240 / FL 160		Class C. Scottish ACC Freq: 133.050 (All Levels).
△ SOPAX	533848.89N 0042708.06W					
(RNAV 5)	275°/ -	13.9 NM	FL 245 / FL 145	even FL 240 / FL 160		Class C. Scottish ACC Freq: 133.050 (All Levels).
△ RAMOX	533936.72N 0045022.41W					
(RNAV 5)	275°/ -	11.0 NM	FL 245 / FL 115	even FL 240 / FL 120		Class C. ATS delegated to Dublin ATC Freq: 129.180.
△ OGTUG	534012N 0050850W					
(RNAV 5)	274°/ -	12.6 NM	FL 245 / FL 75	even FL 240 / FL 80		Class C. ATS delegated to Dublin ATC Freq: 129.180. Dublin ATIS Freq: 124.530.
△ BAGSO	534047.96N 0053000.00W					FIR Boundary. Extremity of L70. Intersection with V14 (see AIP Ireland).

Route Remarks:
See also ENR 1.1, paragraph 1.1.3.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L74						
△ TOPPA	532408.99N 0033341.01E					Eastbound route only. FIR/UIR Boundary. Continues as (U)L74 (see AIP Netherlands).
(RNAV 5)	- /171°	12.2 NM	FL 460 / FL 175		odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. Scottish ACC Freq: 121.325 (FL 245 and above). ATS delegated to Amsterdam ACC below FL 245.
△ LARDI	533616.09N 0033057.16E					
(RNAV 5)	- /185°	34.6 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ SOTUN	541035.65N 0033736.65E					
(RNAV 5)	- /185°	7.8 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ VENAS	541819.85N 0033908.23E					Extremity of L74.
Route Remarks: See also ENR 1.1, paragraph 1.1.3. Due to ATC operational requirements, the cruising level allocation between VENAS and LARDI is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L89						
△ KATHY	503113.59N 0012000.23W		SAM R178 26.1 NM 64 FT			Eastbound route only. Extremity of L89.
(RNAV 5)	024°/ -	32.0 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between KATHY and 10 NM north of KATHY London ACC Freq: 127.830 (All levels). Between 10 NM north of KATHY and 15 NM south of HAZEL London ACC Freq: 127.830 (FL 125 and above); Freq: 133.180 (Below FL 125). Between 15 NM south of HAZEL and HAZEL London ACC Freq: 127.830 (FL 175 and above); Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ HAZEL	510019.03N 0005904.06W		SAM R077 14.0 NM 64 FT			
(RNAV 5)	008°/ -	27.2 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between HAZEL and 5 NM south of WOD London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175). Between 5 NM south of WOD and WOD London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).
△ WOODLEY NDB (WOD)	512710.02N 0005243.68W					Extremity of L89. Intersection with M605.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L90						
△ DOLAS	525842.96N 0010003.43E					Extremity of L90. Intersection with L603.
(RNAV 5)	315°/135°	21.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ SUPEL	531340.27N 0003528.02E					
(RNAV 5)	315°/134°	25.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ LIBSO	533129.33N 0000536.32E					
(RNAV 5)	326°/146°	12.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△	OTTRINGHAM VOR/DME (OTR)	534153.49N 0000613.61W					Extremity of L90. Intersection with L602.

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L149							
△	BIGNO	500000N 0024930W		GUR R346 34.9 NM 343 FT			Eastbound route only. Extremity of L149.
(RNAV 5)		- /152°	25.2 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.080 (All Levels).
△	KLAKI	502216.59N 0030754.14W					
(RNAV 5)		- /134°	8.7 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.080 (All Levels).
△	BUDXE	502818.29N 0031744.21W					
(RNAV 5)		- /134°	8.9 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.080 (All Levels).
△	DAWLY	503427.31N 0032750.23W					Extremity of L149.
Route Remarks: CDR Fri 1600 (1500) - Mon 0745 (0645).							

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L151							
△	SITET	500600N 0000000E					Eastbound route only above FL 245 btn MID and SITET. FIR/UIR Boundary. Extremity of L151. Intersection with A34 and UN859 (See AIP France).
(RNAV 5)		335°/155°	7.2 NM	FL 460 / FL 75	even FL 240 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ DRAKE	501234N 0000434W					
(RNAV 5)	337°/157°	54.9 NM	FL 460 / FL 85	even FL 240 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between DRAKE and abm BENBO: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295). Between abm BENBO and abm BOGNA: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295 to FL 175); Freq: 133.180 (Below FL 175). Between abm BOGNA and 8 NM from MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 255); Freq: 135.055 (Below FL 255 to FL 175); Freq: 133.180 (Below FL 175). Between 8 NM from MID and MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175): Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ MIDHURST DME (MID)	510314.23N 0003730.01W					Eastbound route only btn WAL and MID. Intersection with Y803.
(RNAV 5)	- /147°	29.7 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between LINDY and abm TEVSI: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135). Between abm TEVSI and 10 NM before MID: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175). Between 10 NM before MID and 5 NM before MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175). Between 5 NM before MID and MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ LINDY	512814.12N 0010257.19W					
(RNAV 5)	- /147°	21.5 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between KIDLI and 5 NM from KIDLI: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215). Between 5 NM from KIDLI and abm COWLY: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 133.080 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165). Between abm COWLY and LINDY: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).
△ KIDLI	514617.00N 0012140.87W		CPT R342 17.6 NM 498 FT			Intersection with (U)N859.
(RNAV 5)	- /147°	7.6 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 134.390 (Below FL 305 to FL 245); Freq: 132.165 (Below FL 245 to FL 215); Freq: 121.030 (Below FL 215).
△ NEDEX	515237.17N 0012819.67W					
(RNAV 5)	- /147°	10.7 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ NANUM	520134.97N 0013747.00W					
(RNAV 5)	- /147°	3.0 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 121.030 (Below FL 225).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ TUBSU	520406N 0014028W					
(RNAV 5)	- /147°	2.5 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ DISIT	520610.84N 0014240.91W					
(RNAV 5)	- /147°	11.8 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ PEPUL	521603.00N 0015314.37W					
(RNAV 5)	- /147°	7.9 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 195 and above); Freq: 121.030 (Below FL 195).
△ BRUMI	522237.21N 0020019.14W					
(RNAV 5)	- /147°	2.4 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ VIDOK	522439.05N 0020231.12W					
(RNAV 5)	- /147°	18.3 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ TELBA	523952.00N 0021906.97W					
(RNAV 5)	- /147°	10.5 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 195 and above); Freq: 134.430 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ KEPAD	524835.41N 0022844.28W					Intersection with L15.
(RNAV 5)	- /146°	42.3 NM	FL 460 / FL 145		odd FL 450 / FL 150	FL 460/FL 195 Class C, FL 195/FL 145 Class A. Between WAL and 15 NM before KEPAD: London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (below FL 195). Between 15 NM before KEPAD and 10 NM before KEPAD: London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Freq: 118.780 (Below FL 285 to FL 195); Freq: 134.425 (Below FL 195). Between 10 NM before KEPAD and KEPAD: London ACC Freq: 134.390 (FL 285 and above); Freq: 118.780 (Below FL 285 to FL 195); Freq: 134.430 (Below FL 195).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Extremity of L151.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L179						
△ GILTI	513413.01N 0020318.17E					Westbound route only btn GILTI and ICTAM. FIR/UIR Boundary. For continuation see AIP Netherlands.
(RNAV 5)	273°/ -	10.2 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ PIBUX	513458.88N 0014657.42E					Intersection with Y4.
(RNAV 5)	273°/ -	6.4 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ ERING	513526.45N 0013643.00E					
(RNAV 5)	273°/ -	12.4 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ TOBIX	513617.39N 0011651.40E					
(RNAV 5)	273°/ -	13.7 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ TUGPO	513709.84N 0005451.93E					
(RNAV 5)	273°/ -	6.3 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ TERKO	513732.46N 0004448.08E					Intersection with M40.
(RNAV 5)	273°/ -	3.8 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ SIRGO	513745.56N 0003847.03E					Intersection with L620.
(RNAV 5)	273°/ -	4.0 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ FERIT	513759.23N 0003221.20E					Intersection with M14.
(RNAV 5)	272°/ -	14.5 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between FERIT and 4 NM from LAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175). Between 4 NM from LAM and LAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 175); Freq: 123.905 (Below FL 175).
△ LAMBOURNE DME (LAM)	513845.69N 0000906.13E					
(RNAV 5)	260°/ -	10.2 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 115); Freq: 123.905 (Below FL 115).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ UGBET	513701.15N 0000705.18W					Intersection with Q60.
(RNAV 5)	262°/ -	39.5 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between UGBET and 10 NM from UGBET: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 115); Freq: 118.825 (Below FL 115). Between 10 NM from UGBET and 19 NM from ICTAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 175); Freq: 135.805 (Below FL 175 to FL 155); Freq: 119.780 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115). Between 19 NM from ICTAM and 12 NM from ICTAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 119.780 (Below FL 155). Between 12 NM from ICTAM and ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ICTAM	513137.37N 0010948.12W					Intersection with M197, T421 and Q63.
(RNAV 5)	280°/100°	18.7 NM	FL 460 / FL 95	even FL 430 / FL 100	odd FL 450 / FL 250	FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between ICTAM and 7NM from ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155). Between 7NM from ICTAM and SAWPE: London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265 to FL 115); Freq: 134.125 (Below FL 115).
△ SAWPE	513504.67N 0013916.42W					FRA Entry/Exit Point. Extremity of L179.
Route Remarks: GILTI - TERKO CDR H24. Rest of L179 - PERM. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L180						
△ LEKCI	513440.46N 0025314.66W					Eastbound route only btn ZIPWE and LEKCI. Extremity of L180.
(RNAV 1)	- /107°	26.6 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 134.755 (All Levels).
△ ZIPWE	514235.40N 0033400.70W					
(RNAV 1)	066°/246°	14.3 NM	FL 245 / FL 125	odd FL 230 / FL 130	even FL 240 / FL 200	FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ TIGWE	514822.73N 0031257.91W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
(RNAV 1)	068°/248°	16.0 NM	FL 245 / FL 125	odd FL 230 / FL 130	even FL 240 / FL 200	FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ OXCUD	515423.03N 0024906.11W					Eastbound route only btn OXCUD and FIGZI.
(RNAV 1)	068°/ -	8.6 NM	FL 245 / FL 125	odd FL 230 / FL 130		Between OXCUD and the western boundary of Cotswold CTA 15 (515448N 0024727W): FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels). Between the western boundary of Cotswold CTA 15 (515448N 0024727W) and FIGZI: Class C. London ACC Freq: 134.755 (All Levels).
△ FIGZI	515734.77N 0023613.57W					Extremity of L180.
Route Remarks: TIGWE – FIGZI CDR H24. Rest of L180 Perm.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
L186						
△ TURNBERRY DME (TRN)	551848.28N 0044701.91W					Westbound route only. Extremity of L186. Intersection with N562 and P600.
(RNAV 5)	- /184°	17.0 NM	FL 255 / 6000 FT ALT		even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/Alt 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ NORBO	553545.36N 0044543.46W		TRN R003 17.0 NM 586 FT			Extremity of L186.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L602						
△ MIMVA	530603.21N 0031812.63E					Westbound route only btn MIMVA and OTR. FIR/UIR Boundary. For continuation see AIP Netherlands.
(RNAV 5)	281°/ -	29.7 NM	FL 460 / FL 175	even FL 430 / FL 180		FL 460/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 245). ATS Delegated to Amsterdam ACC below FL 245.
△ EMLON	531220.44N 0023000.00E					Intersection with M79.
(RNAV 5)	281°/ -	36.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ LEGRO	531934.86N 0013045.89E					
(RNAV 5)	283°/ -	41.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between LEGRO and 0010000E: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355). Between 0010000E and NALAX: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ NALAX	532859.89N 0002405.94E					Intersection with L46.
(RNAV 5)	305°/ -	22.2 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ OTTRINGHAM VOR/DME (OTR)	534153.49N 0000613.61W					Intersection with L90.
(RNAV 5)	308°/127°	32.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ ERKIT	540148.85N 0004948.85W					Intersection with N110.
(RNAV 5)	316°/135°	124.4 NM	FL 460 / FL 285	even FL 430 / FL 300	odd FL 450 / FL 290	Class C. Between ERKIT and 0020000W: Scottish ACC Freq: 126.930 (All Levels). Between 0020000W and TLA: Scottish ACC Freq: 135.855 (All Levels).
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					Intersection with N601 and N864. FRA Entry/Exit Point. Extremity of partition of L602.
(RNAV)						ROUTE BREAK - THIS ATS ROUTE IS NOT CONTINUOUS.
△ GLASGOW DME (GOW)	555213.81N 0042644.60W					Intersection with N560 and L612. Extremity of partition of L602.
(RNAV 5)	297°/117°	13.0 NM	FL 255 / 5500 FT ALT	even FL 240 / FL 80	odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/Alt 5500 FT Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ CLYDE	555748.43N 0044731.51W		GOW R297 13.0 NM 46 FT			
(RNAV 5)	297°/117°	12.0 NM	FL 255 / 5500 FT ALT	even FL 240 / FL 60	odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/Alt 5500 FT Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ FYNER	560256.12N 0050655.19W		GOW R297 25.0 NM 46 FT			
(RNAV 5)	297°/117°	26.8 NM	FL 255 / 5500 FT ALT	even FL 240 / FL 60	odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/Alt 5500 FT Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ BRUCE	561411.05N 0055028.09W					Intersection with Y958.
(RNAV 5)	297°/116°	37.8 NM	FL 255 / FL 115	even FL 240 / FL 120	odd FL 250 / FL 130	FL 255/FL 195 Class C, FL 195/FL 115 Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ TIREE VOR/DME (TIR)	562935.61N 0065232.27W					Extremity of L602.

Route Remarks:
NALAX-ERKIT CDR H24.
Rest of L602 - PERM.

The portion of L602 between GOW and TIR is for use by traffic climbing to or descending from the Shanwick OCA Boundary and the NOTA and below FL 195 is Class E and TMZ and extends 5 NM either side of the centre-line. However, within the confines of the Scottish TMA, L602 assumes the airspace classification of the Scottish TMA.

Note: Transponder carriage and operation required within that part of L602 notified as Class E and TMZ.

See also ENR 1.1, paragraph 1.1.3.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L603						
△ LAMSO	524358.43N 0025939.68E					Eastbound route only btn TENSO and LAMSO. FIR/UIR Boundary. Continues as UL603 and intersects with UP154 and UZ304 (see AIP Netherlands).
(RNAV 5)	- /101°	7.2 NM	FL 460 / FL 175		odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 245). ATS Delegated to Amsterdam ACC below FL 245.
△ BUKUT	524530.21N 0024801.68E					
(RNAV 5)	- /101°	11.2 NM	FL 460 / FL 175		odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 245). ATS Delegated to Amsterdam ACC below FL 245.
△ DIBAL	524749.98N 0023000.00E					
(RNAV 5)	- /100°	55.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ DOLAS	525842.96N 0010003.43E					
(RNAV 5)	- /107°	39.4 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ AMVEL	531102.96N 0000155.16W					
(RNAV 5)	- /107°	10.0 NM	FL 460 / FL 155		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ ROGAG	531405.79N 0001745.46W					
(RNAV 5)	- /107°	5.6 NM	FL 460 / FL 155		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ EVKAL	531546.99N 0002637.21W					
(RNAV 5)	- /107°	9.0 NM	FL 460 / FL 125		odd FL 450 / FL 130	FL 460/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ LAMIX	531828.66N 0004055.52W		POL R116 57.2 NM 1438 FT			Intersection with UT29.
(RNAV 5)	- /107°	20.1 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ EDUXO	532424N 0011301W					Base level change point is not at right angles to the CL of L603 and extends between: 531938N 0011532W and 532910N 0011030W.
(RNAV 5)	- /107°	2.4 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ MAMUL	532505.20N 0011648.45W					Intersection with L60.
(RNAV 5)	- /107°	11.6 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ ELNOD	532826N 0013524W					
(RNAV 5)	- /107°	11.3 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ DESIG	533138.13N 0015333.70W		POL R149 15.0 NM 1438 FT			For flight planning purposes btn BELOX and DESIG, FL 250 and FL 270 are not avbl for cruising tfc.
(RNAV 5)	- /112°	12.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ TENSO	533601.89N 0021227.00W					
(RNAV 5)	292°/111°	48.8 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BELOX	535316.37N 0032923.15W					FRA Entry/Exit Point. Extremity of partition of L603.
(RNAV)						ROUTE BREAK - THIS ATS ROUTE IS NOT CONTINUOUS.
△ ISLE OF MAN VOR/DME (IOM)	540401.12N 0044548.50W					Eastbound route only btn LISBO and IOM. Extremity of partition of L603. Intersection with L10.
(RNAV 5)	- /115°	31.0 NM	FL 255 / FL 75		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ PEPOD	541616.31N 0053409.26W					Intersection with L15.
(RNAV 5)	- /132°	23.8 NM	FL 255 / FL 75		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ LISBO	543130.00N 0060524.10W					Extremity of L603.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L607						
△ KONAN	510750.75N 0020000.00E					Eastbound route only. UIR Boundary. For continuation see AIP Belgium.
(RNAV 5)	- /098°	75.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between BIG and abm ITVIP: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275). Between abm ITVIP and KONAN: London ACC Freq: 127.430 (FL 315 and above); Freq: 134.905 (Below FL 315).
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					Intersection with (U)L9, L15 and Q70.
(RNAV 5)	- /094°	44.7 NM	FL 460 / FL 175		odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. Between ALHAD and abm OCK: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215). Between abm OCK and BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215).
△ ALHAD	512346.75N 0010858.16W					Intersection with P72.
(RNAV 5)	- /102°	12.7 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between ELSOF and 5NM from ELSOF: London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265 to FL 115); Freq: 129.080 (Below FL 115). Between 5NM from ELSOF and ALHAD: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 129.080 (Below FL 155).
△ ELSOF	512631.49N 0012846.13W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 5)	- /102°	7.6 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265).
△ NUCHU	512808.10N 0014035.43W					FRA Exit Point. Intersection with L18 and P73.
(RNAV 5)	- /096°	11.8 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Dual designation with L18 between NUCHU and UNZIB. London ACC Freq: 134.755 (All Levels).
△ UNZIB	512929.62N 0015920.96W					
(RNAV 5)	- /096°	6.5 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.755 (All Levels).
△ BUCFA	513013.22N 0020941.09W					The base level change point is not at right angles to the CL and is coincident with the boundary of Bristol CTA 8.
(RNAV 5)	- /096°	10.0 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 105 Class A, FL 105/FL 75 Class D. London ACC Freq: 134.755 (Above FL 135); Bristol APP Freq: 125.650 (FL 135 and below).
△ YORQI	513118.51N 0022535.78W					Intersection with N21.
(RNAV 5)	- /096°	7.9 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 105 Class A, FL 105/FL 75 Class D. London ACC Freq: 134.755 (Above FL 135); Bristol APP Freq: 125.650 (FL 135 and below).
△ HAWFA	513208.71N 0023812.55W					
(RNAV 1)	- /095°	36.0 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 134.755 (All Levels).
△ RUHUN	513539.92N 0033541.28W					Extremity of L607.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L608						
△ SUMUM	513814.25N 0020627.77E					Westbound route only FL 245 and above btn SUMUM and CLN. FIR/UIR Boundary. For continuation see AIP Netherlands. Intersection with Y6.
(RNAV 5)	289°/108°	19.7 NM	FL 460 / FL 85	even FL 430 / FL 100	odd FL 230 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ LOGAN	514451.32N 0013642.58E		CLN R108 18.3 NM 100 FT			Intersection with L980.
(RNAV 5)	288°/108°	18.3 NM	FL 460 / FL 85	even FL 430 / FL 100	odd FL 230 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between LOGAN and 10 NM before CLN: London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215). Between 10 NM before CLN and CLN: London ACC Freq: 133.940 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ CLACTON VOR/DME (CLN)	515054.50N 0010851.32E					Eastbound route only btn UNGAP and CLN. Intersection with M189.
(RNAV 5)	- /103°	37.2 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between ADMIS and 7 NM from ADMIS: London ACC Freq: 124.930 (FL 155 and above); Freq: 129.280 (Below FL 155). Between 7 NM from ADMIS and 10 NM from ADMIS: London ACC Freq: 124.930 (FL 155 and above); Freq: 118.825 (Below FL 155 to FL 125); Freq: 129.280 (Below FL 125). Between 10 NM from ADMIS and CLN: London ACC Freq: 124.930 (FL 155 and above); Freq: 121.230 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ADMIS	515948.54N 0001035.56E					Intersection with M183.
(RNAV 5)	- /103°	23.0 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between POTON and 7 NM from POTON: London ACC Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 119.780 (Below FL 165). Between 7 NM from POTON and 13 NM from POTON: London ACC Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155). Between 13 NM from POTON and ADMIS: London ACC Freq: 124.930 (FL 155 and above); Freq: 129.280 (Below FL 155).
△ POTON	520504.32N 0002537.78W					
(RNAV 5)	- /103°	11.7 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between OLNEY and 7 NM from OLNEY: London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195). Between 7 NM from OLNEY and POTON: London ACC Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 119.780 (Below FL 165).
△ OLNEY	520740.22N 0004403.32W		DTY R102 14.4 NM 600 FT			
(RNAV 5)	- /102°	14.4 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Intersection with L10 and M605.
(RNAV 5)	- /136°	14.9 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 129.205 (FL 225 and above); Freq: 130.925 (Below FL 225).
△ UNGAP	522129.49N 0012338.97W		HON R089 9.9 NM 435 FT			Extremity of L608.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L610						
△ RAPIX	512638.39N 0020000.00E					Westbound route only. FIR/UIR Boundary. For continuation see AIP Belgium.
(RNAV 5)	279°/ -	4.8 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ SUNUP	512731.48N 0015226.63E					
(RNAV 5)	279°/ -	10.0 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ TEBRA	512920.30N 0013643.00E					
(RNAV 5)	279°/ -	18.1 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ KOPUL	513231.76N 0010813.84E		DET R053 24.8 NM 645 FT			
(RNAV 5)	279°/ -	6.6 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ UNSAD	513340.24N 0005745.91E					
(RNAV 5)	279°/ -	12.5 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. Between UNSAD and 7 NM from UNSAD: London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125). Between 7 NM from UNSAD and NILON: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NILON	513546.46N 0003803.93E					Intersection with M40.
(RNAV 5)	279°/ -	1.9 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ GILDA	513605.68N 0003501.04E					Intersection with L620 and M14.
(RNAV 5)	279°/ -	16.4 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ LAMBOURNE DME (LAM)	513845.69N 0000906.13E					Intersection with L179 and (U)N57.
(RNAV 5)	294°/ -	23.4 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155).
△ HEMEL	514820.00N 0002509.78W					Extremity of L610. Intersection with T420.
Route Remarks: RAPIX - LAM CDR H24. Rest of L610 - PERM. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L612						
△ XAMAB	501216.25N 0001552.83E					Eastbound route only btn MID and XAMAB. FIR Boundary. Extremity of L612.
(RNAV 5)	- /146°	12.2 NM	FL 245 / FL 105		odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 135.055 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ HAWKE	502226.57N 0000524.77E					Intersection with M189.
(RNAV 5)	- /146°	5.6 NM	FL 245 / FL 105		odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 135.055 (All Levels).
△ BENBO	502704.76N 0000036.71E					Intersection with Y47.
(RNAV 5)	- /146°	18.1 NM	FL 245 / FL 105		odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).
△ BOGNA	504207.00N 0001505.57W		GWC R115 21.3 NM 122 FT			
(RNAV 5)	- /146°	25.5 NM	FL 245 / FL 65		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					
(RNAV 5)	338°/158°	25.8 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 5 NM before MID and MID: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175). Between WOD and 5 NM before MID: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ WOODLEY NDB (WOD)	512710.02N 0005243.68W					Eastbound route only btn GOW and WOD. Intersection with M605.
(RNAV 5)	- /144°	12.0 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 10 NM before WOD and WOD: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135). Between COWLY and 10 NM before WOD: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 119.780 (Below FL 155).
△ COWLY	513657.58N 0010353.72W					Intersection with Q41.
(RNAV 5)	- /153°	24.2 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between COWLY and abm SILVA: London ACC Freq: 132.165 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125). Between abm SILVA and EMKUK: London ACC Freq: 134.390 (FL 215 and above); Freq: 130.925 (Below FL 215).
△ EMKUK	515837.47N 0012114.72W					Intersection with Y321.
(RNAV 5)	- /153°	6.1 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 130.925 (Below FL 225).
△ IXURA	520405N 0012540W					
(RNAV 5)	- /153°	19.4 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 130.925 (Below FL 225).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Intersection with L8, L15, L608, N859 & P155.
(RNAV 5)	- /158°	51.1 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between HON and abm Birmingham: London ACC Freq: 134.390 (FL 215 and above); Freq: 130.925 (Below FL 215). Between abm Birmingham and abm STAFA: London ACC Freq: 134.390 (FL 195 and above); Scottish ACC Freq: 134.430 (Below FL 195). Between abm STAFA and LISTO: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			Intersection with P18.
(RNAV 5)	- /158°	7.1 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ LOVEL	531506.00N 0021627.98W					
(RNAV 5)	- /158°	14.3 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between LOVEL and abm MCT: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195). Between abm MCT and BARTN: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ BARTN	532814.17N 0022541.11W		POL R215 20.1 NM 1438 FT			
(RNAV 5)	- /158°	10.2 NM	FL 245 / FL 65		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ CROFT	533736.89N 0023219.85W		WAL R056 25.6 NM 55 FT			Intersection with P16.
(RNAV 5)	- /158°	9.6 NM	FL 245 / FL 65		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ CALDA	534627.00N 0023838.38W					
(RNAV 5)	- /158°	8.9 NM	FL 245 / FL 65		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ OBUNI	535440N 0024433W					
(RNAV 5)	- /158°	6.0 NM	FL 245 / FL 95		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ VAMEB	540010N 0024832W					
(RNAV 5)	- /158°	15.4 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ LAKEY	541420.00N 0025852.38W					
(RNAV 5)	- /157°	31.6 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. Scottish ACC Freq: 124.825 (All Levels).
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					Intersection with N57 and N864.
(RNAV 5)	- /153°	18.0 NM	FL 245 / FL 95		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish ACC Freq: 124.825 (All Levels).
△ BEBNI	545905.82N 0033514.22W					
(RNAV 5)	- /153°	16.3 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 124.825 (All Levels).
△ NAVSO	551322.02N 0034848.63W					
(RNAV 5)	- /153°	18.7 NM	FL 245 / 6000 FT ALT		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ ELBUS	552943.28N 0040435.87W					
(RNAV 5)	- /152°	11.8 NM	FL 255 / 6000 FT ALT		odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ LUSIV	554001.54N 0041440.50W		GOW R152 14.0 NM 46 FT			
(RNAV 5)	- /152°	3.3 NM	FL 255 / 6000 FT ALT		odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ FENIK	554254.65N 0041730.91W		GOW R152 10.7 NM 46 FT			
(RNAV 5)	- /152°	10.7 NM	FL 255 / 6000 FT ALT		odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ GLASGOW DME (GOW)	555213.81N 0042644.60W					Intersection with L602 and N560. Extremity of L612.
Route Remarks: Variable lower limit: Daily from 0700-2000 (0600-1900) between BEBNI and DCS. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
L613						
△ SOVAT	504645.67N 0012800.00E					Westbound route only. FIR/UIR Boundary. For continuation see AIP France.
(RNAV 5)	318°/ -	22.9 NM	FL 465 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 134.905 (Below FL 305 to FL 195); Freq: 135.325 (Below FL 195).
△ SANDY	510350.81N 0010403.13E		DET R128 22.9 NM 645 FT			Intersection with L15, UN57 and UN601.
(RNAV 5)	324°/ -	70.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between SANDY and abm DET: London ACC Freq: 127.430 (FL 305 and above); Freq: 134.905 (Below FL 305). Between abm DET and STOAT: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ STOAT	520133.22N 0000115.37W					
(RNAV 5)	331°/ -	19.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 285 and above); Freq: 127.105 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ MOGLI	521830.00N 0001608.63W					
(RNAV 5)	331°/ -	48.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 285 and above); Freq: 127.105 (Below FL 285).
△ BETAX	530032.89N 0005402.72W					
(RNAV 5)	331°/ -	28.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ MAMUL	532505.20N 0011648.45W					Intersection with UY250.
(RNAV 5)	331°/ -	21.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ HALIF	534406.31N 0013450.10W					Intersection with UN590.
(RNAV 5)	331°/ -	28.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ ABKAT	540853.12N 0015846.69W					Intersection with UP18.
(RNAV 5)	331°/ -	94.2 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					FRA Entry Point. Extremity of L613.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L620						
△ DAWLY	503427.31N 0032750.23W					Extremity of L620.
(RNAV 5)	074°/254°	28.4 NM	FL 245 / FL 195	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. London ACC Freq: 126.080 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BRIPO	504227.47N 0024500.00W					
(RNAV 5)	074°/254°	9.2 NM	FL 245 / FL 195	odd FL 230 / FL 210	even FL 240 / FL 200	Class C. London ACC Freq: 126.080 (All Levels).
△ GIBSO	504459.08N 0023107.33W					FRA Entry/Exit Point. Intersection with N16.
(RNAV 5)	074°/254°	11.1 NM	FL 460 / FL 195	odd FL 450 / FL 210	even FL 430 / FL 200	Class C. London ACC Freq: 128.815 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ BEVUP	504800N 0021420W					
(RNAV 5)	074°/255°	10.1 NM	FL 460 / FL 135	odd FL 450 / FL 150	even FL 430 / FL 140	FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 128.815 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ ABKIM	505043N 0015858W					
(RNAV 5)	075°/255°	25.1 NM	FL 460 / FL 95	odd FL 450 / FL 110	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between ABKIM and 6 NM from SAM: London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305). Between 6 NM from SAM and SAM: London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Intersection with M140, N63, N621, N866, Q41 and Y8.
(RNAV 5)	077°/257°	14.0 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△ HAZEL	510019.03N 0005904.06W		SAM R077 14.0 NM 64 FT			
(RNAV 5)	077°/257°	2.6 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NIBDA	510052.20N 0005501.48W					Intersection with N14.
(RNAV 5)	077°/258°	6.3 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ NOVMA	510211.79N 0004514.92W		MID R257 5.0 NM 233 FT			
(RNAV 5)	078°/258°	5.0 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					Westbound route only btn CLN and MID.
(RNAV 5)	- /234°	56.1 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Between GILDA and 16 NM from MID: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between 16 NM from MID and MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ GILDA	513605.68N 0003501.04E					Intersection with L610.
(RNAV 5)	- /234°	2.9 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).
△ SIRGO	513745.56N 0003847.03E					Intersection with L179.
(RNAV 5)	- /234°	6.6 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 128.160 (All Levels).
△ MANGO	514133.88N 0004725.58E					
(RNAV 5)	- /234°	16.3 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Between CLN and 9 NM from CLN: London ACC Freq: 133.940 (All Levels). Between 9 NM from CLN and MANGO: London ACC Freq: 128.160 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ CLACTON VOR/DME (CLN)	515054.50N 0010851.32E					Eastbound route only btn CLN and REDFA.
(RNAV 5)	071°/ -	52.2 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between CLN and 10 NM from CLN: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 121.230 (Below FL 155). Between 10 NM from CLN and REDFA: London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ REDFA	520652.75N 0022916.81E					FIR/UIR Boundary. For continuation see AIP Netherlands.
Route Remarks: DAWLY - BRIPO CDR H24. Rest of L620 - PERM. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
L722						
△ SANDY	510350.81N 0010403.13E		DET R128 22.9 NM 645 FT			Extremity of L722.
(RNAV 5)	288°/107°	31.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275).
△ HABCI	511401.12N 0001644.96E					Westbound route only btn HABCI and ICTAM.
(RNAV 5)	287°/ -	57.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between HABCI and abm OCK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between abm OCK and ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ ICTAM	513137.37N 0010948.12W					Extremity of L722.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L975						
△ GOLES	533629.08N 0010500.37W		POL R102 37.3 NM 1438 FT			Extremity of L975. Intersection with Y70.
(RNAV 5)	261°/081°	5.7 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ ARPUB	533534N 0011428W					
(RNAV 5)	261°/081°	2.2 NM	FL 245 / FL 55	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ UPTON	533513.00N 0011802.58W		POL R107 30.2 NM 1438 FT			
(RNAV 5)	261°/081°	9.4 NM	FL 245 / FL 55	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ UNIGO	533340N 0013339W					
(RNAV 5)	261°/080°	12.1 NM	FL 245 / 3500 FT ALT	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/Alt 3500 FT Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ DESIG	533138.13N 0015333.70W		POL R149 15.0 NM 1438 FT			Intersection with L70 and L603.
(RNAV 5)	260°/080°	2.5 NM	FL 245 / FL 55	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ DENBY	533112.53N 0015740.39W		POL R159 14.4 NM 1438 FT			
(RNAV 5)	260°/080°	7.7 NM	FL 245 / FL 55	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ SONEX	532952.70N 0021020.86W		POL R189 15.0 NM 1438 FT			
(RNAV 5)	260°/080°	9.3 NM	FL 245 / FL 55	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ BARTN	532814.17N 0022541.11W		POL R215 20.1 NM 1438 FT			Intersection with P17.
(RNAV 5)	260°/080°	8.2 NM	FL 245 / FL 55	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ ASMIM	532645.75N 0023910.71W		WAL R079 17.6 NM 55 FT			
(RNAV 5)	260°/080°	17.6 NM	FL 245 / FL 55	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Eastbound route only btn LIFFY and WAL. Intersection with L10, L151, M146, N862 and Y53.
(RNAV 5)	- /095°	17.1 NM	FL 245 / FL 85		odd FL 230 / FL 90	Class C. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ MALUD	532448.17N 0033630.30W		WAL R275 17.1 NM 55 FT			Intersection with L15.
(RNAV 5)	- /095°	12.9 NM	FL 245 / FL 85		odd FL 230 / FL 90	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ ROLEX	532542.14N 0035803.85W					
(RNAV 5)	- /095°	13.1 NM	FL 245 / FL 125		odd FL 230 / FL 130	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ LYNAS	532633.02N 0042000.00W					
(RNAV 5)	- /095°	10.9 NM	FL 245 / FL 145		odd FL 230 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ NATKO	532711.99N 0043806.92W					
(RNAV 5)	- /095°	8.0 NM	FL 245 / FL 145		odd FL 230 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ GINIS	532738.95N 0045128.61W					
(RNAV 5)	- /094°	11.0 NM	FL 245 / FL 125		odd FL 230 / FL 130	Class C. ATS delegated to Dublin ACC Freq: 129.180.
△ IDEXA	532814N 0050951W					
(RNAV 5)	- /094°	12.1 NM	FL 245 / FL 45		odd FL 230 / FL 50	Class C. ATS delegated to Dublin ACC Freq: 129.180. Dublin ATIS Freq: 124.530.
△ LIFFY	532848.28N 0053000.00W					FIR Boundary. For continuation see AIP Ireland.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L980						
△ VEXEN	500821.98N 0014934.38W					Eastbound route only btn VEXEN and MID. Extremity of L980.
(RNAV 5)	039°/ -	9.5 NM	FL 460 / FL 105	even FL 430 / FL 260 odd FL 230 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345 to FL 225); Freq: 129.430 (Below FL 225).
△ DOMUT	501542.57N 0014008.65W		MID R219 62.1 NM 233 FT			
(RNAV 5)	039°/ -	20.2 NM	FL 460 / FL 105	even FL 430 / FL 260 odd FL 230 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ KATHY	503113.59N 0012000.23W		SAM R178 26.1 NM 64 FT			Intersection with L89.
(RNAV 5)	040°/ -	9.5 NM	FL 460 / FL 105	even FL 430 / FL 260 odd FL 230 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ ABSAV	503828.94N 0011029.05W					
(RNAV 5)	040°/ -	14.0 NM	FL 460 / FL 105	even FL 430 / FL 260 odd FL 230 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between ABSAV and 4 NM from ABSAV: London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345 to FL 125); Freq: 133.180 (Below FL 125). Between 4 NM from ABSAV and AVANT: London ACC Freq: 132.840 (FL 305 and above); Freq: 134.440 (Below FL 305 to FL 255); Freq: 127.830 (Below FL 255 to FL 125); Freq: 133.180 (Below FL 125).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ AVANT	504912.00N 0005618.05W		GWC R252 7.2 NM 122 FT			
(RNAV 5)	040°/ -	18.4 NM	FL 460 / FL 105	even FL 430 / FL 260 odd FL 230 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between AVANT and 7 NM from AVANT: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 255); Freq: 134.440 (Below FL 255 to FL 175); Freq: 133.180 (Below FL 175). Between 7 NM from AVANT and MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					Westbound route only btn XAMAN and MID.
(RNAV 5)	- /219°	46.0 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Between LAM and 29 NM from LAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between 29 NM from LAM and 34 NM from LAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305). Between 34 NM from LAM and MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ LAMBOURNE DME (LAM)	513845.69N 0000906.13E					Intersection with L179 and L610.
(RNAV 5)	- /263°	11.0 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ EVNAS	514004.25N 0002638.37E					
(RNAV 5)	- /263°	1.6 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ WESUL	514015.29N 0002909.27E					Intersection with M14.
(RNAV 5)	- /263°	7.4 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ BRASO	514106.57N 0004100.03E		LAM R082 20.0 NM 241 FT			
(RNAV 5)	- /263°	4.0 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ MANGO	514133.88N 0004725.58E					
(RNAV 5)	- /263°	2.2 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ LIVSU	514148.74N 0005057.72E					
(RNAV 5)	- /263°	3.8 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ SABER	514213.76N 0005658.19E		LAM R082 30.0 NM 241 FT			Intersection with M40.
(RNAV 1)	- /263°	5.0 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ TRIPO	514246.54N 0010457.56E		CLN R195 8.5 NM 100 FT			
(RNAV 1)	- /263°	12.9 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ JACKO	514408.65N 0012536.00E					
(RNAV 1)	- /263°	6.9 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ LOGAN	514451.32N 0013642.58E		CLN R108 18.3 NM 100 FT			
(RNAV 1)	- /263°	22.9 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ XAMAN	514704.77N 0021326.94E					FIR/UIR Boundary. For continuation see AIP Netherlands.
Route Remarks: Due to Brest ACC operational requirements, the cruising level allocation between VEXEN and MID above FL 245 is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
L982						
△ ORIST	500000N 0015042W					Eastbound route only. FIR/UIR Boundary. Extremity of L982.
(RNAV 1)	027°/ -	8.3 NM	FL 460 / FL 125	odd FL 450 / FL 130		FL 460/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345 to FL 225); Freq: 129.430 (Below FL 225).
△ ERGUM	500725.13N 0014449.66W					
(RNAV 1)	040°/ -	11.1 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ROXOG	501558.29N 0013344.41W					
(RNAV 1)	039°/ -	18.5 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ VASUX	503009.23N 0011516.99W					Intersection with (U)N867.
(RNAV 1)	040°/ -	12.2 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.440 (FL 185 and above); Freq: 127.830 (Below FL 185).
△ DISVO	503931.38N 0010257.16W					
(RNAV 1)	050°/ -	14.5 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.440 (FL 185 and above); Freq: 127.830 (Below FL 185).
△ TELTU	504839.92N 0004517.69W					Extremity of L982.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
L989						
△ BODSO	530308.25N 0020540.71E					Westbound route only. Extremity of L989. Intersection with Y70.
(RNAV 5)	- /256°	15.1 NM	FL 245 / FL 175		even FL 240 / FL 180	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 128.130 (All Levels).
△ SOPEK	530631.88N 0023000.00E					Extremity of L989.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M8						
△ SUBIP	502644N 0005306E					Westbound route only. FIR Boundary. Extremity of M8.
(RNAV 5)	286°/ -	9.1 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.430 (FL 145 and above); Freq: 135.325 (Below FL 145).
△ ELDAX	502918.36N 0003930.42E					Intersection with N20.
(RNAV 5)	295°/ -	13.1 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 135.055 (All Levels).
△ WAFFU	503456.89N 0002059.29E					Extremity of M8. Intersection with Y8.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M14						
△ GILDA	513605.68N 0003501.04E					Westbound route only. Extremity of M14.
(RNAV 5)	318°/ -	2.5 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).
△ FERIT	513759.23N 0003221.20E					
(RNAV 5)	318°/ -	3.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).
△ WESUL	514015.29N 0002909.27E					
(RNAV 5)	318°/ -	28.5 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).
△ STOAT	520133.22N 0000115.37W					Extremity of M14. Intersection with L613.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M16						
△ DOLAS	525842.96N 0010003.43E					Eastbound route only. Extremity of M16. Intersection with L603.
(RNAV 5)	- /101°	68.7 NM	FL 460 / FL 285		odd FL 450 / FL 290	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ NAPEX	531222.64N 0005139.78W					
(RNAV 5)	- /100°	28.2 NM	FL 460 / FL 285		odd FL 450 / FL 290	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335).
△ XAPOS	531728.59N 0013751.25W					
(RNAV 5)	- /100°	23.1 NM	FL 460 / FL 285		odd FL 450 / FL 290	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335).
△ MANCHESTER DME (MCT)	532125.29N 0021544.24W					
(RNAV 5)	- /094°	31.4 NM	FL 460 / FL 285		odd FL 450 / FL 290	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Extremity of M16.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M17						
△ NICXI	520046.40N 0050317.78W					Westbound route only. Extremity of M17.
(RNAV 5)	334°/ -	8.8 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ PEMOB	520837.77N 0050941.13W					
(RNAV 5)	335°/ -	17.6 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ LEMGU	522421.56N 0052236.38W					
(RNAV 5)	335°/ -	10.0 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ VATRY	523316N 0053000W					FIR/UIR Boundary. For continuation see AIP Ireland.
Route Remarks: CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M40						
△ UMBUR	512733.00N 0000708.17E					Westbound route only. Extremity of M40.
(RNAV 5)	- /246°	11.0 NM	FL 245 / FL 95		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 123.905 (Below FL 175).
△ IPKUS	513152.43N 0002318.58E					
(RNAV 5)	- /246°	10.0 NM	FL 245 / FL 95		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 129.605 (FL 175 and above); Freq: 123.905 (Below FL 175).
△ NILON	513546.46N 0003803.93E					
(RNAV 5)	- /246°	4.6 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ TERKO	513732.46N 0004448.08E					
(RNAV 5)	- /237°	8.9 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ SABER	514213.76N 0005658.19E		LAM R082 30.0 NM 241 FT			Intersection with L980.
(RNAV 1)	- /251°	36.8 NM	FL 460 / FL 275		even FL 430 / FL 280	Class C. London ACC Freq: 128.160 (All Levels).
△ IDESI	515351.74N 0015308.08E					Intersection with P49 and Y6.
(RNAV 1)	- /267°	16.2 NM	FL 460 / FL 85		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ RINIS	515429.66N 0021920.82E					FIR/UIR Boundary. For continuation see AIP Netherlands.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M79						
△ EMLON	531220.44N 0023000.00E					Westbound route only. Extremity of M79.
(RNAV 5)	301°/ -	77.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ ROVNI	535313N 0003901E					
(RNAV 5)	300°/ -	16.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ TENDO	540144.00N 0001446.72E					
(RNAV 5)	312°/ -	91.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 126.930 (All Levels).
△ NATEB	550218.41N 0014154.13W					Extremity of M79. Intersection with L602, N610 and UP18.
Route Remarks: CDR H24.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min** ↓	↑	**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
M84						
△ KONAN	510750.75N 0020000.00E					Eastbound route only. Intersection with UL607 (see AIP Belgium). FIR/UIR Boundary. Extremity of M84.
(RNAV 5)	- /126°	29.8 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between ABTUM and 7 NM from ABTUM: London ACC Freq: 127.430 (FL 315 and above); Freq: 134.905 (Below FL 315 to FL 195); Freq: 120.530 (Below FL 195 to FL 135); Freq: 135.325 (Below FL 135). Between 7 NM from ABTUM and KONAN: London ACC Freq: 127.430 (FL 315 and above); Freq: 134.905 (Below FL 315 to FL 135); Freq: 135.325 (Below FL 135).
△ ABTUM	512603.66N 0012228.98E					
(RNAV 5)	- /177°	12.7 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ NONVA	513846.45N 0012144.31E					
(RNAV 5)	- /146°	10.7 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ EVMEK	514740.93N 0011217.66E					
(RNAV 5)	- /146°	3.9 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 121.230 (Below FL 155).
△ CLACTON VOR/DME (CLN)	515054.50N 0010851.32E					
(RNAV 5)	- /064°	16.0 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 124.930 (FL 155 and above); Freq: 121.230 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ TOVGU	514403.18N 0004537.55E					Intersection with M604.
(RNAV 5)	- /063°	19.6 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 129.605 (FL 175 and above); Freq: 123.905 (Below FL 175).
△ ODUKU	513531.78N 0001715.47E					Extremity of M84.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M85						
△ ITVIP	511713.75N 0010312.30E					Southbound route only. Extremity of M85. Intersection with L10 and Q70.
(RNAV 5)	- /162°	33.6 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 129.605 (All Levels).
△ DAGGA	514919.37N 0004739.00E		CLN R262 13.2 NM 100 FT			Extremity of M85.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M87						
△ UMTUM	511227.30N 0010102.78E					Eastbound route only. Extremity of M87. Intersection with L9.
(RNAV 1)	- /128°	19.0 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ EKNIV	512425.62N 0003731.08E					Intersection with M91.
(RNAV 1)	- /170°	11.0 NM	FL 245 / FL 65		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175 to FL 105); Freq: 120.530 (Below FL 105).
△ SODVU	513515.48N 0003446.80E					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 1)	- /098°	7.1 NM	FL 245 / FL 65		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 129.605 (FL 175 and above); Freq: 118.825 (Below FL 175 to FL 105); Freq: 120.530 (Below FL 105).
△ SOQQA	513623.75N 0002328.43E					Extremity of M87.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M90						
△ LONAM	535022.32N 0035633.03E					UIR Boundary. For continuation see AIP Netherlands. Intersection with UL7.
(RNAV 5)	329°/149°	23.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ SOTUN	541035.65N 0033736.65E					Intersection with L74.
(RNAV 5)	303°/123°	13.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ROLUM	541819.85N 0031831.29E					
(RNAV 5)	303°/122°	126.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ GIVEM	552753.52N 0001452.78E					FRA Entry/Exit Point. Extremity of M90. Intersection with P58.
Route Remarks: SOTUN - GIVEM CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M91						
△ IRKUN	505516N 0012800E					Westbound route only btn IRKUN and LYD. FIR Boundary. Extremity of M91.
(RNAV 5)	281°/ -	22.8 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 135.325 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ LYDD DME (LYD)	505958.87N 0005243.18E					Eastbound route only between EKNIV and LYD.
(RNAV 5)	- /156°	16.2 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ EMKAD	511449.88N 0004233.94E					
(RNAV 5)	- /161°	10.1 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ EKNIV	512425.62N 0003731.08E					Extremity of M91.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M140						
△ OXLOW	510154.80N 0020000.00W					FRA Entry/Exit Point. Extremity of M140.
(RNAV 5)	100°/281°	25.3 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Eastbound route only btn SAM and DVR.
(RNAV 5)	082°/ -	53.1 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.440 (Below FL 275).
△ ROKKE	510411.95N 0000241.82E					
(RNAV 5)	082°/ -	20.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.440 (Below FL 275).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ PENUX	510632N 0003412E					
(RNAV 5)	083°/ -	30.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275).
△ DOVER DME (DVR)	510945.44N 0012132.71E					Extremity of M140.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
M142						
△ OXLOW	510154.80N 0020000.00W					FRA Exit Point. Eastbound route only. Extremity of M142.
(RNAV 1)	088°/ -	77.5 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Between OXLOW and abm VOUGA: London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305). Between abm VOUGA and ROKKE: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ ROKKE	510411.95N 0000241.82E					Extremity of M142. Intersection with M140.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
M144						
△ PENIL	533657.47N 0033948.72W		WAL R306 23.2 NM 55 FT			Westbound route only. Extremity of M144.
(RNAV 1)	275°/ -	10.1 NM	FL 460 / FL 75	even FL 430 / FL 80		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BABRA	533739.37N 0035642.63W					
(RNAV 1)	275°/ -	5.4 NM	FL 460 / FL 115	even FL 430 / FL 120		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ GIGTO	533801.06N 0040550.62W					
(RNAV 1)	275°/ -	7.6 NM	FL 460 / FL 115	even FL 430 / FL 120		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ UNDUX	533830.25N 0041838.76W					
(RNAV 1)	275°/ -	5.1 NM	FL 460 / FL 155	even FL 430 / FL 160		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ SOPAX	533848.89N 0042708.06W					
(RNAV 1)	275°/ -	13.9 NM	FL 460 / FL 145	even FL 430 / FL 160		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ RAMOX	533936.72N 0045022.41W					
(RNAV 1)	275°/ -	11.0 NM	FL 460 / FL 115	even FL 430 / FL 120		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).
△ OGTUG	534012N 0050850W					
(RNAV 1)	274°/ -	12.6 NM	FL 460 / FL 75	even FL 430 / FL 80		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ BAGSO	534047.96N 0053000.00W					FIR/UIR Boundary. Extremity of M144.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M145						
△ BAGSO	534047.96N 0053000.00W					Westbound route only. FIR/UIR Boundary. Extremity of M145.
(RNAV 1)	- /253°	13.6 NM	FL 460 / FL 75		even FL 430 / FL 80	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).
△ RIMVU	534511.14N 0050824.68W					
(RNAV 1)	- /275°	11.0 NM	FL 460 / FL 115		even FL 430 / FL 120	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).
△ SITKU	534435.77N 0044954.26W					
(RNAV 1)	- /275°	13.8 NM	FL 460 / FL 155		even FL 430 / FL 160	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ LANVA	534347.86N 0042637.51W					
(RNAV 1)	- /275°	12.8 NM	FL 460 / FL 115		even FL 430 / FL 120	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ LELDO	534259.53N 0040507.00W					Extremity of M145.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M146						
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Westbound route only. Extremity of M146.
(RNAV 1)	315°/ -	16.0 NM	FL 460 / FL 75	even FL 430 / FL 80		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ AGLIL	533441.99N 0032711.30W					
(RNAV 1)	306°/ -	7.4 NM	FL 460 / FL 75	even FL 430 / FL 80		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ DIGMA	533859.86N 0033723.50W					
(RNAV 1)	306°/ -	23.7 NM	FL 460 / FL 75	even FL 430 / FL 80		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ ERDUV	535234.66N 0041008.23W					Intersection with Z198.
(RNAV 1)	306°/ -	6.7 NM	FL 460 / FL 75	even FL 430 / FL 80		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ LUSOD	535622.70N 0041926.37W					FRA Entry Point.
(RNAV 1)	306°/ -	8.4 NM	FL 255 / FL 75	even FL 240 / FL 80		Class C. Scottish ACC Freq: 133.050 (All Levels).
△ PEPEG	540106.49N 0043105.30W					
(RNAV 1)	314°/ -	38.8 NM	FL 255 / FL 75	even FL 240 / FL 80		Between PEPEG and 540703N 0044207W: Class C. Between 540703N 0044207W and ROBOP: FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ ROBOP	542708.56N 0052005.35W					Intersection with M147.
(RNAV 1)	316°/ -	5.7 NM	FL 255 / FL 75	even FL 240 / FL 80		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ IPSET	543105.63N 0052708.92W					Extremity of M146. Intersection with P6.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M147						
△ UVPOK	535939.61N 0041235.26W					Westbound route only. Extremity of M147.
(RNAV 1)	306°/ -	9.8 NM	FL 255 / FL 195	even FL 240 / FL 200		Class C. Scottish ACC Freq: 123.775 (All Levels).
△ NOPKI	540515.93N 0042608.29W					
(RNAV 1)	306°/ -	8.8 NM	FL 255 / FL 135	even FL 240 / FL 140		Class C. Scottish ACC Freq: 123.775 (All Levels).
△ MATUT	541017.23N 0043821.89W					
(RNAV 1)	306°/ -	29.7 NM	FL 255 / FL 135	even FL 240 / FL 140		FL 255/FL 195 Class C, FL 195/FL 135 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ ROBOP	542708.56N 0052005.35W					Intersection with M146.
(RNAV 1)	337°/ -	22.5 NM	FL 255 / FL 75	even FL 240 / FL 80		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ MAGEE	544729.53N 0053630.02W		BEL R071 23.0 NM 221 FT			Extremity of M147.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M148						
△ NINEB	540344.27N 0040741.84W					Westbound route only. Extremity of M148.
(RNAV 1)	306°/ -	9.8 NM	FL 255 / FL 195	even FL 240 / FL 200		Class C. Scottish ACC Freq: 123.775 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ MASOP	540921.02N 0042115.26W					
(RNAV 1)	306°/ -	8.8 NM	FL 255 / FL 135	even FL 240 / FL 140		Class C. Scottish ACC Freq: 123.775 (All Levels).
△ IDGAS	541422.81N 0043329.47W					
(RNAV 1)	306°/ -	21.2 NM	FL 255 / FL 135	even FL 240 / FL 140		FL 255/FL 195 Class C, FL 195/FL 135 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ IBTES	542625.20N 0050315.12W					
(RNAV 1)	307°/ -	7.1 NM	FL 255 / FL 75	even FL 240 / FL 80		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ LIMKA	543026.50N 0051311.22W					
(RNAV 1)	323°/ -	21.8 NM	FL 255 / FL 75	even FL 240 / FL 80		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ MAGEE	544729.53N 0053630.02W		BEL R071 23.0 NM 221 FT			Extremity of M148.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M183						
△ COMPTON VOR/DME (CPT)	512929.66N 0011310.89W					Extremity of M183. Intersection with N859, Q63 and Y321.
(RNAV 5)	020°/200°	22.8 NM	FL 245 / FL 85	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between CPT and 5 NM north of CPT: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155). Between 5 NM north of CPT and SILVA: London ACC Freq: 132.165 (FL 215 and above); Freq: 121.030 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ SILVA	515051.34N 0010019.40W					Westbound route only btn BKY and SILVA. Intersection with M605.
(RNAV 5)	- /258°	35.6 NM	FL 245 / FL 85		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between NUGBO and 5 NM west of NUGBO: London ACC Freq: 130.925 (FL 155 and above); Freq: 129.280 (Below FL 155). Between 5 NM west of NUGBO and 10 NM east of SILVA: London ACC Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125). Between 10 NM east of SILVA and SILVA: London ACC Freq: 132.605 (FL 215 and above); Freq: 121.030 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).
△ NUGBO	515821.96N 0000412.09W		BKY R257 5.0 NM 486 FT			
(RNAV 5)	- /258°	5.0 NM	FL 245 / FL 85		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 130.925 (FL 155 and above); Freq: 129.280 (Below FL 155).
△ BARKWAY DME (BKY)	515923.17N 0000342.87E					Eastbound route only btn BKY and REDFA.
(RNAV 5)	084°/ -	4.3 NM	FL 460 / FL 135	odd FL 450 / FL 150		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 129.280 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ADMIS	515948.54N 0001035.56E					
(RNAV 5)	084°/ -	35.4 NM	FL 460 / FL 135	odd FL 450 / FL 150		FL 460/FL 195 Class C, FL 195/FL 135 Class A. Between ADMIS and 5 NM east of ADMIS: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 129.280 (Below FL 155). Between 5 NM east of ADMIS and 20 NM west of TEDSA: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 129.280 (Below FL 155). Between 20 NM west of TEDSA and 5 NM west of TEDSA: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 119.780 (Below FL 155). Between 5 NM west of TEDSA and TEDSA: London ACC Freq: 133.940 (FL 215 and above); Freq: 124.930 (Below FL 215 to FL 155); Freq: 121.230 (Below FL 155).
△ TEDSA	520303.10N 0010739.03E					
(RNAV 5)	084°/ -	25.4 NM	FL 460 / FL 135	odd FL 450 / FL 150		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ SONDO	520505.92N 0014842.35E					
(RNAV 5)	085°/ -	17.0 NM	FL 460 / FL 135	odd FL 450 / FL 150		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ SONOG	520619.71N 0021610.08E					
(RNAV 5)	085°/ -	8.1 NM	FL 460 / FL 135	odd FL 450 / FL 150		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ REDFA	520652.75N 0022916.81E					FIR/UIR Boundary. Extremity of M183. Intersection with (U)L620 (see AIP Netherlands).
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M184						
△ KOTEM	500000.00N 0010313.83W					Eastbound route only. FIR Boundary. For continuation see AIP France.
(RNAV 1)	005°/ -	20.2 NM	FL 245 / FL 125	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.440 (FL 185 and above); Freq: 127.830 (Below FL 185).
△ PILIP	502003.05N 0010026.13W					
(RNAV 1)	005°/ -	22.3 NM	FL 245 / FL 125	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.440 (FL 185 and above); Freq: 127.830 (Below FL 185).
△ NELKO	504214.18N 0005717.79W					
(RNAV 1)	005°/ -	7.0 NM	FL 245 / FL 125	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.440 (FL 185 and above); Freq: 127.830 (Below FL 185).
△ AVANT	504912.00N 0005618.05W		GWC R252 7.2 NM 122 FT			Intersection with L980.
(RNAV 1)	018°/ -	62.3 NM	FL 245 / FL 175	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. Between AVANT and 10 NM north of AVANT: London ACC Freq: 134.440 (All Levels). Between 10 NM north of AVANT and 20 NM south of HEMEL: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215). Between 20 NM south of HEMEL and HEMEL: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ HEMEL	514820.00N 0002509.78W					Extremity of M184. Intersection with T420.
Route Remarks: KOTEM - AVANT FL 195 and above CDR, below FL 195 unavailable for Flight Planning but may be used tactically H24. Rest of M184 - PERM. Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M185						
△ LUGIS	500000.00N 0005220.10W					Eastbound route only btn LUGIS and MID. FIR Boundary. For continuation see AIP France.
(RNAV 1)	005°/ -	19.5 NM	FL 245 / FL 125	even FL 240 / FL 200		Class C. London ACC Freq: 134.440 (All Levels).
△ ADLOG	501925.00N 0004933.40W					
(RNAV 1)	005°/ -	17.7 NM	FL 245 / FL 125	even FL 240 / FL 200		Class C. London ACC Freq: 134.440 (All Levels).
△ DESNA	503700.00N 0004700.31W					
(RNAV 1)	005°/ -	11.7 NM	FL 245 / FL 125	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.440 (All Levels).
△ TELTU	504839.92N 0004517.69W					
(RNAV 5)	018°/ -	15.4 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					
(RNAV 5)	025°/206°	12.0 NM	FL 245 / FL 85	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ MODMI	511400.99N 0002909.99W					Eastbound route only btn MODMI and BPK.
(RNAV 5)	018°/ -	4.5 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ OCKHAM DME (OCK)	511818.17N 0002649.86W					Intersection with Q3.
(RNAV 5)	025°/ -	25.4 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between OCK and 11 NM from OCK: London ACC Freq: 132.165 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 155); Freq: 120.530 (Below FL 155). Between 11 NM from OCK and KOBBI: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 115); Freq: 118.825 (Below FL 115).
△ KOBBI	514113.77N 0000918.34W					Intersection with M197.
(RNAV 5)	025°/ -	4.2 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					Extremity of M185.

Route Remarks:
LUGIS - DESNA FL 195 and above CDR, below FL 195 unavailable for Flight Planning but may be used tactically H24.
Rest of M185 - PERM.

Due to ATC operational requirements, the cruising level allocation between LUGIS and TELTU is inappropriate to the MAG Track.

See also ENR 1.1, paragraph 1.1.3.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M189						
△ NEVIL	500000.00N 0002205.64W					FIR Boundary. Extremity of M189. Intersection with G27 (see AIP France).
(RNAV 5)	037°/218°	11.4 NM	FL 245 / FL 75	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 135.055 (All Levels).
△ OSPOL	500900.00N 0001107.84W					
(RNAV 5)	038°/218°	17.1 NM	FL 245 / FL 75	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 135.055 (All Levels).
△ HAWKE	502226.57N 0000524.77E					Intersection with L612.
(RNAV 5)	038°/218°	16.0 NM	FL 245 / FL 75	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).
△ WAFFU	503456.89N 0002059.29E					Intersection with M605 and Y8.
(RNAV 5)	038°/218°	11.2 NM	FL 245 / FL 75	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 135.055 (All Levels).
△ HASTY	504342.46N 0003200.37E					
(RNAV 5)	038°/218°	20.9 NM	FL 245 / FL 75	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (All Levels).
△ LYDD DME (LYD)	505958.87N 0005243.18E					Intersection with Y803.
(RNAV 5)	061°/241°	8.1 NM	FL 245 / FL 75	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.180 (Below FL 195).
△ SANDY	510350.81N 0010403.13E		DET R128 22.9 NM 645 FT			
(RNAV 5)	061°/241°	12.5 NM	FL 245 / FL 75	odd FL 230 / FL 90	even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195 to FL 135); Freq: 135.325 (Below FL 135).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ DOVER DME (DVR)	510945.44N 0012132.71E					Intersection with L9 and L18.
(RNAV 5)	003°/183°	34.5 NM	FL 245 / FL 85	odd FL 230 / FL 90	even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between DVR and 20 NM north of DVR: London ACC Freq: 134.905 (All Levels). Between 20 NM north of DVR and JACKO: London ACC Freq: 128.160 (All Levels).
△ JACKO	514408.65N 0012536.00E					
(RNAV 5)	302°/122°	12.4 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 128.160 (All Levels).
△ CLACTON VOR/DME (CLN)	515054.50N 0010851.32E					Eastbound route only btn GASBA and CLN.
(RNAV 5)	- /086°	12.4 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 124.930 (FL 155 and above); Freq: 121.230 (Below FL 155).
△ GASBA	515010.40N 0004852.85E					Extremity of M189.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
M195						
△ LORKU	495618.10N 0022215.64W					Westbound route only. UIR Boundary. Extremity of M195.
(RNAV 5)	- /212°	21.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 129.430 (All Levels).
△ MARUK	501446.56N 0020420.41W					Intersection with N621.
(RNAV 1)	- /213°	20.2 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 129.430 (All Levels).
△ IBNID	503143.71N 0014708.46W					
(RNAV 1)	- /213°	30.6 NM	FL 460 / FL 55		odd FL 450 / FL 130	FL 460/FL 195 Class C, FL 195/FL 55 Class A. London ACC Freq: 129.430 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△	SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Extremity of M195.
Route Remarks: MARUK - LORKU CDR H24. Rest of M195 - PERM. Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track.							

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M197							
△	ENHAQ	512422.69N 0014313.40W					FRA Entry/Exit Point. Extremity of M197.
(RNAV 5)		070°/250°	22.1 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 134.460 (All Levels).
△	ICTAM	513137.37N 0010948.12W					Eastbound route only btn ICTAM and REDFA. Intersection with Q63 and Q295.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
(RNAV 5)	075°/ -	36.2 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between ICTAM and 6 NM from ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135). Between 6 NM from ICTAM and 18 NM from ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 119.780 (Below FL 155). Between 18 NM from ICTAM and 25 NM from ICTAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 119.780 (Below FL 155). Between 25 NM from ICTAM and IPRIL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 175); Freq: 135.805 (Below FL 175 to FL 155); Freq: 119.780 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).
△ IPRIL	514028.81N 0001335.35W					
(RNAV 5)	074°/ -	2.8 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ KOBBI	514113.77N 0000918.34W					
(RNAV 5)	075°/ -	31.0 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between KOBBI and 10 NM from KOBBI: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115). Between 10 NM from KOBBI and BRAIN: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ BRAIN	514839.91N 0003906.00E		BKY R115 24.4 NM 486 FT			Intersection with P44 and Q295.
(RNAV 1)	075°/ -	6.3 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ GASBA	515010.40N 0004852.85E					
(RNAV 1)	073°/ -	33.5 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between GASBA and 20 NM from GASBA: London ACC Freq: 133.940 (FL 245 and above); Freq: 134.440 (Below FL 245 to FL 185); Freq: 124.930 (Below FL 185 to FL 155); Freq: 121.230 (Below FL 155). Between 20 NM from GASBA and RATLO: London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ RATLO	515929.13N 0014055.18E					
(RNAV 1)	075°/ -	30.8 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ REDFA	520652.75N 0022916.81E					FIR/UIR Boundary. Extremity of M197. Intersection with L620 (see AIP Netherlands).

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M604						
△ LYDD DME (LYD)	505958.87N 0005243.18E					Eastbound route only. Intersection with M189. Extremity of M604.
(RNAV 5)	- /149°	21.1 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275 to FL 195); Freq: 120.530 (Below FL 195).
△ DETLING DME (DET)	511814.41N 0003550.19E					
(RNAV 5)	012°/ -	5.0 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275 to FL 195); Freq: 120.530 (Below FL 195).
△ FRANE	512306.00N 0003739.40E		DET R012 5.0 NM 645 FT			
(RNAV 5)	013°/ -	11.8 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).
△ SPEAR	513433.79N 0004200.57E		DET R012 16.8 NM 645 FT			
(RNAV 5)	013°/ -	9.8 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 175); Freq: 123.905 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ TOVGU	514403.18N 0004537.55E					
(RNAV 5)	013°/ -	5.4 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ DAGGA	514919.37N 0004739.00E		CLN R262 13.2 NM 100 FT			Intersection with P44.
(RNAV 5)	041°/ -	1.1 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ GASBA	515010.40N 0004852.85E					Intersection with M197.
(RNAV 5)	041°/ -	2.2 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 121.230 (Below FL 155).
△ PAAVO	515149.03N 0005115.76E					Intersection with Q295.
(RNAV 5)	041°/ -	15.1 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 121.230 (Below FL 155).
△ TEDSA	520303.10N 0010739.03E					Intersection with M183.
(RNAV 5)	036°/ -	5.1 NM	FL 460 / FL 105	odd FL 450 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ LAPRA	520707.18N 0011236.45E					
(RNAV 5)	039°/ -	17.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 133.940 (All Levels).
△ BANEM	522008.11N 0013019.26E					
(RNAV 5)	045°/ -	20.1 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 133.940 (All Levels).
△ EFMIH	523406.42N 0015353.84E					
(RNAV 5)	044°/ -	36.3 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BEKMO	525910.21N 0023710.22E					
(RNAV 5)	025°/ -	20.2 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ GIVPO	531709.77N 0025209.02E					
(RNAV 5)	025°/ -	25.4 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ROKAN	533947.50N 0031119.84E					
(RNAV 5)	021°/ -	41.9 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ VENAS	541819.85N 0033908.23E					
(RNAV 5)	026°/ -	37.8 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ LARGA	545149.54N 0040911.97E					FRA Entry Point. Extremity of M604.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M605						
△ XIDIL	502106.15N 0003829.37E					Eastbound route only btn SFD and XIDIL. FIR Boundary. For continuation see AIP France.
(RNAV 5)	- /140°	9.2 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 135.055 (All Levels).
△ HARDY	502815.75N 0002928.04E		SFD R140 22.4 NM 289 FT			
(RNAV 5)	- /140°	8.6 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 135.055 (All Levels).
△ WAFFU	503456.89N 0002059.29E					Intersection with M189.
(RNAV 5)	- /140°	13.8 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ SEAFORD VOR/DME (SFD)	504538.48N 0000718.89E					
(RNAV 5)	317°/137°	56.2 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ WOODLEY NDB (WOD)	512710.02N 0005243.68W					Intersection with L612.
(RNAV 5)	348°/168°	7.7 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).
△ BENSU	513444.26N 0005508.45W					Intersection with Q70.
(RNAV 5)	348°/168°	16.5 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).
△ SILVA	515051.34N 0010019.40W					Intersection with Q41.
(RNAV 5)	348°/168°	9.1 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 195 and above); Freq: 130.925 (Below FL 195).
△ FINMA	515947.21N 0010313.34W		DTY R168 11.3 NM 600 FT			Intersection with L15.
(RNAV 5)	348°/168°	11.3 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 195 and above); Freq: 130.925 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Intersection with Y53 and Y250.
(RNAV 5)	327°/147°	40.6 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Between DTY and abm Birmingham: London ACC Freq: 129.205 (FL 195 and above); Freq: 130.925 (Below FL 195). Between abm Birmingham and PEDIG: London ACC Freq: 134.390 (FL 195 and above); Scottish ACC Freq: 134.430 (Below FL 195).
△ PEDIG	524447.59N 0014309.97W		WAL R127 64.2 NM 55 FT			
(RNAV 5)	347°/167°	61.5 NM	FL 245 / FL 75	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between PEDIG and abm TNT: London ACC Freq: 134.390 (FL 195 and above); Scottish ACC Freq: 134.430 (Below FL 195). Between abm TNT and 533328N 0020149W: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195). Between 533328N 0020149W and POL: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Extremity of M605.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
M733						
△ SUBIP	502644N 0005306E					Northbound route only. FIR Boundary. Extremity of M733.
(RNAV 5)	319°/ -	7.8 NM	FL 245 / FL 175	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 128.430 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BANVA	503242N 0004512E					
(RNAV 5)	319°/ -	19.3 NM	FL 245 / FL 175	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 128.430 (All Levels).
△ UNDUG	504723.71N 0002530.03E		MAY R138 18.0 NM 384 FT			
(RNAV 5)	319°/ -	18.0 NM	FL 245 / FL 175	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 128.430 (All Levels).
△ MAYFIELD DME (MAY)	510101.86N 0000658.04E					Extremity of M733.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
M868						
△ TRENT DME (TNT)	530314.23N 0014011.90W					Eastbound route only. Extremity of M868.
(RNAV 5)	340°/ -	7.2 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Dual designation with N57 btn TNT and TIPIL. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).
△ TIPIL	531000.00N 0014423.13W					→
(RNAV 5)	014°/ -	11.8 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).
△ EVSON	532127N 0013949W					→
(RNAV 5)	042°/ -	6.8 NM	FL 245 / FL 85	odd FL 230 / FL 90		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ ADELU	532630.48N 0013212.64W					Extremity of M868. Intersection with L60. →
Route Remarks: Due to ATC operational requirements, the cruising level allocation between TNT and TIPIL is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M981						
△ GODOS	531456.55N 0032546.79E					FIR/UIR Boundary. Extremity of M981.
(RNAV 5)	301°/121°	18.3 NM	FL 460 / FL 175	even FL 430 / FL 180	odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. Scottish ACC Freq: 121.325 (FL 245 and above). ATS delegated to Amsterdam ACC below FL 245.
△ ROXAT	532449.03N 0030000.00E					
(RNAV 5)	301°/119°	192.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Between ROXAT and 543000N: Scottish ACC Freq: 121.325 (All Levels). Between 543000N and NATEB: Scottish ACC Freq: 126.930 (All Levels).
△ NATEB	550218.41N 0014154.13W					Extremity of M981. Intersection with N97, N610, Y96.
Route Remarks: CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
M982						
△ TOPPA	532408.99N 0033341.01E					FIR/UIR Boundary. Extremity of M982.
(RNAV 5)	318°/138°	20.6 NM	FL 460 / FL 175	even FL 430 / FL 180	odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. Scottish ACC Freq: 121.325 (FL 245 and above). ATS Delegated to Amsterdam ACC below FL 245.
△ ROKAN	533947.50N 0031119.84E					Intersection with M604, N96, N97 and P1.
(RNAV 5)	306°/125°	164.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ERLOT	551714.26N 0003505.84W					
(RNAV 5)	305°/125°	18.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 134.775 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ROBEM	552733.36N 0010113.69W					FRA Entry/Exit Point. Extremity of M982.
Route Remarks: ROKAN - ROBEM CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N6						
△ PILIP	502003.05N 0010026.13W					Eastbound route only. Extremity of N6.
(RNAV 1)	018°/ -	17.9 NM	FL 245 / FL 125	even FL 240 / FL 140		Class C. London ACC Freq: 134.440 (All Levels).
△ TIGGY	503700.54N 0005130.10W					
(RNAV 1)	018°/ -	12.3 NM	FL 245 / FL 125	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.440 (All Levels).
△ TELTU	504839.92N 0004517.69W					Extremity of N6. Intersection with M185.
Route Remarks: PILIP – TIGGY FL 195 and above CDR, below FL 195 unavailable for Flight Planning but may be used tactically H24. Rest of N6 - PERM. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N12						
△ EVTOL	521101.34N 0053114.02W					Westbound route only. Extremity of N12.
(RNAV 5)	347°/ -	7.1 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ NIRIF	521755.87N 0053404.33W					FIR Boundary. Extremity of N12.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
N14						
△ NIBDA	510052.20N 0005501.48W					Westbound route only. Extremity of N14.
(RNAV 5)	326°/ -	3.2 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105).
△ VOUGA	510332.85N 0005750.20W					
(RNAV 5)	329°/ -	19.6 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between VOUGA and 10 NM from VOUGA: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105). Between 10 NM from VOUGA and NUBRI: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△ NUBRI	512016.68N 0011355.99W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min		Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
				↓	↑	
(RNAV 5)	339°/ -	11.5 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between NUBRI and 5 NM from NUBRI: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105). Between 5 NM from NUBRI and HEKXA: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△ HEKXA	513103.61N 0012026.55W					Intersection with Q63.
(RNAV 1)	339°/ -	5.8 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265 to FL 115); Freq: 134.125 (Below FL 115).
△ DIDZA	513627.71N 0012343.46W					
(RNAV 1)	298°/ -	12.3 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. Dual designation with L9 between DIDZA and BIBPE. London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265).
△ OKSAW	514215.31N 0014108.54W					FRA Entry Point.
(RNAV 1)	276°/ -	6.3 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Dual designation with L9 between DIDZA and BIBPE. London ACC Freq: 134.755 (All Levels).
△ BIBPE	514258.91N 0015108.70W					
(RNAV 1)	283°/ -	26.6 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 134.755 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ OKTAD	514904.47N 0023246.30W					
(RNAV 1)	283°/ -	10.5 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 134.755 (All Levels).
△ ELNIF	515119.24N 0024921.61W					
(RNAV 1)	282°/ -	4.1 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 134.755 (All Levels).
△ DOBEM	515210.52N 0025545.33W					Extremity of N14.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N16						
△ GIBSO	504459.08N 0023107.33W					FRA Exit Point. Eastbound route only. Extremity of N16.
(RNAV 5)	089°/ -	48.9 NM	FL 460 / FL 195	odd FL 450 / FL 210		Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ BEGTO	504545.12N 0011407.99W					
(RNAV 5)	073°/ -	11.8 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
AVANT	504912.00N 0005618.05W		GWC R252 7.2 NM 122 FT			
(RNAV 5)	073°/ -	7.2 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ GOODWOOD DME (GWC)	505118.79N 0004524.25W					
(RNAV 5)	046°/ -	27.6 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 134.125 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ OTSID	511022.54N 0001351.01W					
(RNAV 5)	046°/ -	13.8 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 120.530 (Below FL 175).
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					
(RNAV 5)	348°/ -	25.7 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between BIG and 8 NM north of BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 120.530 (Below FL 175). Between 8 NM north of BIG and 5 NM south of BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 115); Freq: 118.825 (Below FL 115). Between 5 NM south of BPK and BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					
(RNAV 5)	023°/ -	15.7 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between BPK and 5 NM north of BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115). Between 5 NM north of BPK and 10 NM north of BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155). Between 10 NM north of BPK and BKY: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 129.280 (Below FL 155).
△ BARKWAY DME (BKY)	515923.17N 0000342.87E					Extremity of N16.
Route Remarks: Due to ATC operational requirements, the cruising level allocation between BIG and BPK is inappropriate to the MAG Track.						

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N17						
△ DAWLY	503427.31N 0032750.23W					Eastbound route only. Extremity of N17.
(RNAV 1)	080°/ -	18.4 NM	FL 245 / FL 195	odd FL 230 / FL 210		Class C. London ACC Freq: 126.080 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ELRIP	503744.67N 0025923.73W					
(RNAV 1)	080°/ -	18.4 NM	FL 245 / FL 195	odd FL 230 / FL 210		Class C. London ACC Freq: 126.080 (All Levels).
△ OTMET	504055.06N 0023053.37W					FRA Exit Point.
(RNAV 1)	094°/ -	18.7 NM	FL 460 / FL 195	odd FL 450 / FL 210		Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ SOKDU	503939.22N 0020133.06W					
(RNAV 1)	089°/ -	18.3 NM	FL 460 / FL 175	odd FL 450 / FL 190		FL 460/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ NEDUL	503958.00N 0013251.86W		SAM R203 19.0 NM 64 FT			
(RNAV 1)	073°/ -	31.4 NM	FL 460 / FL 175	odd FL 450 / FL 190		FL 460/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ TELTU	504839.92N 0004517.69W					Extremity of N17.
Route Remarks: DAWLY - OTMET CDR H24. Rest of N17 - PERM.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N18						
△ GUBJE	520227.50N 0053242.80W					Eastbound route only. Extremity of N18. Intersection with N24.
(RNAV 5)	- /146°	6.5 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ ECCIT	520747.90N 0053843.73W					
(RNAV 5)	- /146°	6.0 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ RUKOH	521242.83N 0054417.55W					FIR Boundary. Extremity of N18.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N19							
△	ADKIK	504748.52N 0023245.46W					FRA Entry Point. Westbound route only. Extremity of N19.
(RNAV 1)		- /258°	21.5 NM	FL 460 / FL 195		even FL 430 / FL 200	Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△	NULGU	505216.60N 0015939.01W					
(RNAV 1)		- /259°	25.2 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△	SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Extremity of N19.

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N20							
△	KUNAV	503054N 0010356E					Westbound route only. FIR boundary. For continuation see AIP France.
(RNAV 5)		263°/ -	15.7 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 128.430 (FL 145 and above); Freq: 120.180 (Below FL 145).
△	ELDAX	502918.36N 0003930.42E					Intersection with M8.
(RNAV 5)		278°/ -	41.6 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).
△	NOTGI	503510.14N 0002502.94W					
(RNAV 5)		314°/ -	8.6 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).
△	EVEXU	504115.78N 0003440.86W					Extremity of N20. Intersection with N859.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.							

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N21						
△ CAWZE	512227.35N 0015920.05W					Eastbound route only. Extremity of N21. Intersection with P2.
(RNAV 1)	- /118°	18.7 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.755 (All Levels).
△ YORQI	513118.51N 0022535.78W					Extremity of N21.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N22						
△ FIMCA	501648.49N 0033000.82W					Eastbound route only. Extremity of N22.
(RNAV 1)	002°/ -	7.1 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (All Levels).
△ BERRY HEAD VOR/DME (BHD)	502354.96N 0032937.28W					Extremity of N22. Intersection with N864.
Route Remarks: Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N24						
△ ADHAV	515452.88N 0051348.51W					Eastbound route only. Extremity of N24. Intersection with P70.
(RNAV 1)	- /124°	13.9 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ GUBJE	520227.50N 0053242.80W					
(RNAV 5)	- /159°	13.0 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ BAKUR	521429.61N 0054048.81W					FIR Boundary. Extremity of N24.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N27						
△ ICTAM	513137.37N 0010948.12W					Westbound route only. Extremity of N27. Intersection with L179, Q63 and T421.
(RNAV 5)	- /224°	8.5 NM	FL 460 / FL 75		even FL 430 / FL 80	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△ DEGGE	513740.40N 0010009.12W					
(RNAV 5)	- /225°	7.5 NM	FL 460 / FL 75		even FL 430 / FL 80	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).
△ RODNI	514256.50N 0005141.83W		CPT R044 19.0 NM 498 FT			
(RNAV 5)	- /225°	3.8 NM	FL 460 / FL 75		even FL 430 / FL 80	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).
△ HENTON NDB (HEN)	514535.07N 0004725.05W					Intersection with N84.
(RNAV 5)	- /271°	22.5 NM	FL 460 / FL 75		even FL 430 / FL 80	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 129.080 (Below FL 215 to FL 165); Freq: 119.780 (Below FL 165).
△ SAXBI	514504.03N 0001113.77W					Extremity of N27.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N30						
△ ADHAV	515452.88N 0051348.51W					Eastbound route only. Extremity of N30. Intersection with P70.
(RNAV 1)	- /095°	37.5 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. Between BANBA and the eastern boundary of the BANBA CTA (515653N 0060559W): ATS delegated to Shannon ACC at FL 195 and above. Shannon ACC Freq: 132.150 (FL 195 and above); London ACC Freq: 129.380 (Below FL 195). Between the eastern boundary of the BANBA CTA (515653N 0060559W) and ADHAV: London ACC Freq: 129.380 (All Levels).
△ BANBA	515710.10N 0061420.59W					FIR Boundary. Extremity of N30.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N34						
△ NEVRI	540406.03N 0061611.42W					Northbound route only. FIR Boundary. For continuation see AIP Ireland.
(RNAV 5)	004°/ -	13.5 NM	FL 255 / FL 75	odd FL 250 / FL 90		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ ABSUN	541732.20N 0061517.74W					
(RNAV 5)	004°/ -	22.2 NM	FL 255 / FL 55	odd FL 250 / FL 70		FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ BELZU	543940.00N 0061348.00W					Extremity of N34.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N38						
△ AVTIC	524304.81N 0030757.93W					Eastbound route only. Extremity of N38.
(RNAV 5)	025°/ -	11.9 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 133.600 (All Levels).
△ ANJAK	525350.17N 0025933.44W					FRA Exit Point.
(RNAV 5)	021°/ -	11.5 NM	FL 460 / FL 155	even FL 430 / FL 160		FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ NOKIN	530436.00N 0025258.25W					Extremity of N38. Intersection with (U)P16 and (U)P17.
Route Remarks: Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N40						
△ KLAKI	502216.59N 0030754.14W					Eastbound route only. Extremity of N40. Intersection with L149.
(RNAV 1)	- /170°	23.7 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.080 (All Levels).
△ SIDHO	504538.88N 0031417.65W					Intersection with N862.
(RNAV 1)	- /179°	19.2 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ LUFMA	510448.01N 0031438.16W					The base level change at LUFMA is coincident with the western boundary of Berry Head CTA 2.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 1)	- /144°	7.4 NM	FL 245 / FL 65		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ EXMOR	511042.76N 0032135.11W		BHD R007 47.1 NM 218 FT			Extremity of N40.
Route Remarks: CDR Fri 1700 - Mon 0745 (0645).						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N42						
△ MIDJO	524754.42N 0024827.24W					Eastbound route only. Extremity of N42. Intersection with P17. Base level change is aligned with PEPZE CTA 6.
(RNAV 1)	- /142°	11.8 NM	FL 245 / FL 95		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 133.600 (All Levels).
△ ELLIQ	525706.48N 0030030.80W					
(RNAV 1)	- /142°	8.8 NM	FL 245 / FL 65		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ REXAM	530400.00N 0030937.21W		WAL R183 19.6 NM 55 FT			Extremity of N42.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N44						
GIGUL	543626.27N 0031009.89E					Westbound route only. Extremity of N44.
(RNAV 5)	333°/ -	10.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 121.325 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ ODMOS	544526.32N 0030252.23E					Intersection with P58.
(RNAV 5)	335°/ -	21.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ NOBDO	550453.28N 0024747.63E					Intersection with UP59.
(RNAV 5)	326°/ -	24.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ UPNAL	552516.67N 0022451.00E					FRA Entry Point. Extremity of N44.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
N57						
△ DEVAL	505125.35N 0012800.00E					Westbound route only btn DEVAL and SAPCO. FIR Boundary.
(RNAV 5)	308°/ -	19.6 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 135.325 (Below FL 195).
△ SANDY	510350.81N 0010403.13E		DET R128 22.9 NM 645 FT			
(RNAV 5)	308°/ -	22.9 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195).
△ DETLING DME (DET)	511814.41N 0003550.19E					
(RNAV 5)	320°/ -	26.5 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 134.905 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ LAMBOURNE DME (LAM)	513845.69N 0000906.13E					
(RNAV 5)	314°/ -	51.9 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Between LAM and 15 NM from LAM: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115). Between 15 NM from LAM and 22 NM from LAM: London ACC Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 129.280 (Below FL 165). Between 22 NM from LAM and 38 NM from LAM: London ACC Freq: 127.105 (FL 215 and above); Freq: 130.925 (Below FL 215). Between 38 NM from LAM and WELIN: London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△ WELIN	521450.25N 0005108.41W		HON R101 30.6 NM 435 FT			Intersection with T420.
(RNAV 5)	313°/ -	25.6 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between WELIN and abm Birmingham: London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195). Between abm Birmingham and SAPCO: London ACC Freq: 127.105 (FL 195 and above); Scottish ACC Freq: 119.530 (Below FL 195).
△ SAPCO	523225N 0012125W		HON R045 15.8 NM 435 FT			Intersection with Y53.
(RNAV 5)	340°/160°	32.9 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. FL 140 not available between SAPCO and TNT. London ACC Freq: 127.105 (Above FL 195); Scottish ACC Freq: 119.530 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ TRENT DME (TNT)	530314.23N 0014011.90W					Intersection with L28 and M868.
(RNAV 5)	340°/160°	7.2 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Dual designation with M868 btn TNT and TIPIL. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).
← △ TIPIL	531000.00N 0014423.13W					
(RNAV 5)	340°/160°	22.7 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).
△ DENBY	533112.53N 0015740.39W		POL R159 14.4 NM 1438 FT			Intersection with L975.
(RNAV 5)	340°/160°	14.4 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Eastbound route only btn DCS and POL. Intersection with P18.
(RNAV 5)	- /144°	10.0 NM	FL 245 / 4500 FT ALT		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/Alt 4500 FT Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ BAMEP	535242N 0021609W					
(RNAV 5)	- /144°	10.0 NM	FL 245 / FL 55		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ SETEL	540044.64N 0022608.71W		POL R323 20.0 NM 1438 FT			
(RNAV 5)	- /144°	6.0 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ OLPOP	540532N 0023208W					
(RNAV 5)	- /144°	10.1 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. (Variable lower limit) Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ IPNOX	541340N 0024222W					
(RNAV 5)	- /144°	37.1 NM	FL 245 / FL 95		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit) Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					Extremity of N57.
Route Remarks: Daily from 0700-2000 (0600-1900) btn DCS and OLPOP the lower limit is FL 125. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N58						
△ KARNO	525339.55N 0025354.05W					FRA Entry Point. Westbound route only. Extremity of N58. Intersection with N862.
(RNAV 5)	- /207°	38.6 NM	FL 460 / FL 145		odd FL 450 / FL 150	Between BARTN and 530626N 0024335W: Class C. Between 530626N 0024335W and KARNO: FL 460/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ BARTN	532814.17N 0022541.11W		POL R215 20.1 NM 1438 FT			Extremity of N58.
Route Remarks: Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N63						
△ LELNA	495856.80N 0020623.42W					Westbound route only. FIR/UIR Boundary. Extremity of N63.
(RNAV 1)	- /207°	50.3 NM	FL 460 / FL 105		odd FL 450 / FL 210 even FL 200 / FL 120	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between LELNA and abeam NEDUL: London ACC Freq: 129.430 (All Levels). Between abeam NEDUL and OLGUD: London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ OLGUD	504356.27N 0013121.75W					
(RNAV 1)	- /207°	15.0 NM	FL 460 / FL 105		odd FL 450 / FL 210 even FL 200 / FL 120	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between OLGUD and 6 NM from OLGUD: London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305). Between 6 NM from OLGUD and SAM: London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 155); Freq: 129.080 (Below FL 155).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Intersection with L620, M140, N19, N621, N866, Y8 and Z171.
(RNAV 1)	- /247°	15.7 NM	FL 460 / FL 75		even FL 430 / FL 80	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 175); Freq: 133.175 (Below FL 175).
△ VOUGA	510332.85N 0005750.20W					
(RNAV 1)	- /247°	17.7 NM	FL 460 / FL 75		even FL 430 / FL 80	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 175); Freq: 133.175 (Below FL 175).
△ IMVUR	511028.90N 0003156.40W					Extremity of N63.

Route Remarks:
SAM - LELNA CDR above FL 195 H24.
Rest of N63 - PERM.

Due to ATC operational requirements, the cruising level allocation between SAM and LELNA above FL 200 is inappropriate to the MAG Track.

See also ENR 1.1, paragraph 1.1.3.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N80						
△ OZZIL	513821.34N 0022549.17W					Westbound route only. Extremity of N80.
(RNAV 1)	288°/ -	34.7 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ARPAK	514844.64N 0031905.48W					Extremity of N80. Intersection with L9.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N83						
△ OFSOX	520145.18N 0051143.62W					Westbound route only btn OFSOX and GUBJE. Extremity of N83.
(RNAV 5)	274°/ -	13.0 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ GUBJE	520227.50N 0053242.80W					
(RNAV 5)	274°/094°	18.4 NM	FL 245 / FL 155	even FL 240 / FL 160	odd FL 170 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ ENJEX	520321.06N 0060227.78W					FIR Boundary. Extremity of N83.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N84						
△ DIDZA	513627.71N 0012343.46W					Westbound route only. Extremity of N84. Intersection with N14 and P86.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 5)	- /248°	24.4 NM	FL 460 / FL 85		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).
△ HENTON NDB (HEN)	514535.07N 0004725.05W					Extremity of N84.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N90						
△ SKESO	494929.42N 0030202.60W					Eastbound (southbound) route only. Extremity of N90.
(RNAV 1)	- /188°	6.1 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (FL 195 and above). Jersey Control Freq: 125.205 (Below FL 195).
△ EPLEF	495531.78N 0030044.62W					
(RNAV 1)	- /153°	20.7 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between ENHEL and 5 NM from EPLEF: London ACC Freq: 126.080 (All Levels). Between 5 NM from EPLEF and EPLEF: London ACC Freq: 126.080 (FL 195 and above). Jersey Control Freq: 125.205 (Below FL 195).
△ ENHEL	501354.15N 0031523.42W					Intersection with N862.
(RNAV 1)	- /153°	11.0 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (All Levels).
△ ZEFIQ	502338.06N 0032314.11W					
(RNAV 1)	- /153°	7.4 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ABBEW	503011.88N 0032833.64W					Extremity of N90.
Route Remarks: CDR H24. Due to ATC operational requirements, the cruising level allocation between EPLEF and SKESO is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N91						
△ EPACE	511420.88N 0033111.46W					Eastbound route only. Extremity of N91.
(RNAV 1)	038°/ -	13.7 NM	FL 245 / FL 195	odd FL 230 / FL 210		Class C. London ACC Freq: 134.755 (All Levels).
△ CARWI	512505.88N 0031744.16W					
(RNAV 1)	038°/ -	30.9 NM	FL 245 / FL 125	odd FL 230 / FL 130		FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (Above FL 165); Cardiff APP Freq: 125.855 (FL 165 and below). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ MULYM	514917.14N 0024657.01W					
(RNAV 1)	039°/ -	10.6 NM	FL 245 / FL 125	odd FL 230 / FL 130		Class C. London ACC Freq: 134.755 (All Levels).
△ FIGZI	515734.77N 0023613.57W					Extremity of N91.
Route Remarks: CARWI – FIGZI CDR H24. Rest of N91 Perm.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N92						
△ DAWLY	503427.31N 0032750.23W					Extremity of N92. Intersection with L149 and N864.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
(RNAV 5)	007°/187°	14.2 NM	FL 245 / FL 65	even FL 160 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Between DAWLY and 10 NM from DAWLY: London ACC Freq: 126.080 (All Levels). Between 10 NM from DAWLY and TIVER: 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ TIVER	504832.58N 0032525.65W		BHD R007 24.8 NM 218 FT			
(RNAV 5)	007°/187°	22.3 NM	FL 245 / FL 65	even FL 160 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ EXMOR	511042.76N 0032135.11W		BHD R007 47.1 NM 218 FT			
(RNAV 1)	- /218°	1.1 NM	FL 245 / FL 75		even FL 240 / FL 80	FL 245/FL 195 Class C, FL 195/FL 105 Class A, FL 105/FL 75 Class D. 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ WIGGU	511136.66N 0032027.75W					
(RNAV 1)	- /218°	13.8 NM	FL 245 / FL 125		even FL 240 / FL 140	FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ PACSE	512226.78N 0030650.70W					Intersection with N862.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min		Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
				↓	↑	
(RNAV 1)	- /218°	13.7 NM	FL 245 / FL 125		even FL 240 / FL 140	FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ZESPE	513309.63N 0025314.43W					
(RNAV 1)	- /219°	8.3 NM	FL 245 / FL 125		even FL 240 / FL 140	FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ICCIN	513936.80N 0024458.74W					
(RNAV 1)	- /219°	8.3 NM	FL 245 / FL 125		even FL 240 / FL 140	Between BUCGO and the southern boundary of Cotswold CTA 15 (514435N 0023834W): Class C. Between the southern boundary of Cotswold CTA 15 (514435N 0023834W) and ICCIN: FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ BUCGO	514606.08N 0023637.20W					Intersection with L9.
(RNAV 1)	- /219°	3.8 NM	FL 245 / FL 125		even FL 240 / FL 140	Class C. London ACC Freq: 134.755 (All Levels).
△ OKTAD	514904.47N 0023246.30W					Intersection with N14.
(RNAV 1)	- /223°	12.7 NM	FL 245 / FL 125		even FL 240 / FL 140	Class C. London ACC Freq: 134.755 (All Levels).
△ DUCNO	515824.34N 0021851.65W					
(RNAV 1)	- /223°	13.8 NM	FL 245 / FL 75		even FL 240 / FL 80	Class C. London ACC Freq: 134.755 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ LUXTO	520830.66N 0020338.38W					
(RNAV 1)	- /188°	14.3 NM	FL 460 / FL 75		even FL 430 / FL 80	Between BRUMI and abm PEPUL: FL 460/FL 195 Class C, FL 195/FL 145 Class A, FL 145/FL 75 Class D. Between abm PEPUL and LUXTO: Class C. London ACC Freq: 135.255 (FL 355 and above); Freq: 133.600 (Below FL 355 to FL 265); Freq: 134.755 (Below FL 265 to FL 145); Birmingham APP Freq: 123.980 (Below FL 145).
△ BRUMI	522237.21N 0020019.14W					Extremity of N92.
Route Remarks: LUXTO – OKTAD CDR H24. Rest of N92 Perm. Due to ATC operational requirements, the cruising level allocation between DAWLY and EXMOR is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
N93						
△ LUXTO	520830.66N 0020338.38W					Extremity of N93. Intersection with N92.
(RNAV 1)	- /221°	9.9 NM	FL 460 / FL 105		even FL 430 / FL 120	FL 460/FL 195 Class C, FL 195/FL 145 Class A, FL 145/FL 105 Class C. London ACC Freq: 135.255 (FL 355 and above); Freq: 133.600 (Below FL 355 to FL 265); Freq: 134.755 (Below FL 265 to FL 145). Birmingham APP Freq: 123.980 (Below FL 145).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ PEPUL	521603.00N 0015314.37W					
(RNAV 1)	- /250°	16.6 NM	FL 460 / FL 105		even FL 430 / FL 120	Between ADMEX and 521744N 0014537W: FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between 521744N 0014537W and 521620N 0015158W: FL 460/FL 195 Class C, FL 195/FL 145 Class A, FL 145/FL 105 Class D. Between 521620N 0015158W and PEPUL: FL 460/FL 195 Class C, FL 195/FL 145 Class A, FL 145/FL 105 Class C. London ACC Freq: 135.255 (FL 355 and above); Freq: 133.600 (Below FL 355 to FL 265); Freq: 134.755 (Below FL 265 to FL 145). Birmingham APP Freq: 123.980 (Below FL 145).
△ ADMEX	522139.20N 0012744.81W		HON R087 7.4 NM 435 FT			Extremity of N93.
Route Remarks: Tactical use only. Not available for flight planning.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N96						
△ ROKAN	533947.50N 0031119.84E					Extremity of N96. Intersection with M982.
(RNAV 5)	312°/130°	161.8 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Between ROKAN and abm ERLOT: Scottish ACC Freq: 121.325 (All Levels). Between abm ERLOT and EVTAR: Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ EVTAR	552751.18N 0001521.15W					FRA Entry/Exit Point. Extremity of N96.
Route Remarks: CDR H24.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N97						
△ ROKAN	533947.50N 0031119.84E					Extremity of N97. Intersection with M982, P1.
(RNAV 5)	296°/114°	190.4 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Between NATEB and abm BAVDO: Scottish ACC Freq: 126.930 (All Levels). Between abm BAVDO and ROKAN: Scottish ACC Freq: 121.325 (All Levels).
△ NATEB	550218.41N 0014154.13W					Intersection with N610.
(RNAV 5)	297°/116°	63.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					FRA Entry/Exit Point. Intersection with L602. Extremity of N97.
Route Remarks: ROKAN - NATEB CDR H24. Rest of N97 - PERM.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N110						
△ DOLAS	525842.96N 0010003.43E					Extremity of N110. Intersection with L603.
(RNAV 5)	307°/127°	26.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ ABTOS	531444.92N 0002536.29E					Intersection with Y70.
(RNAV 5)	307°/127°	32.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ESHIN	533437.20N 0001813.05W					Intersection with L46.
(RNAV 5)	325°/145°	9.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ USEKA	534202.24N 0002645.13W					
(RNAV 5)	325°/145°	24.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ ERKIT	540148.85N 0004948.85W					Intersection with L602.
(RNAV 5)	325°/145°	20.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.925 (FL 285 and above); Freq: 133.800 (Below FL 285).
△ BAVDO	541819.73N 0010925.35W					
(RNAV 5)	331°/151°	41.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.925 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ UNTAL	545435.20N 0014423.27W					Intersection with UP18.
(RNAV 5)	331°/151°	14.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.925 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ AGPED	550718.90N 0015657.15W					Intersection with Y96.
(RNAV 5)	329°/149°	23.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.925 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ INVON	552702.19N 0021835.87W					FRA Entry/Exit Point. Extremity of N110.
Route Remarks: AGPED - INVON CDR H24. Rest of N110 - PERM.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N160						
△ EVCOR	505614.13N 0070651.86W					Extremity of N160.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 5)	318°/139°	25.0 NM	FL 245 / FL 135	even FL 240 / FL 140	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 132.950 (All Levels).
△ LEDGO	511423.78N 0073404.65W					FIR Boundary. Extremity of N160.
Route Remarks: CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N514						
△ ADKIK	504748.52N 0023245.46W					FRA Entry Point. Westbound route only. Extremity of N514
(RNAV 1)	- /255°	21.4 NM	FL 460 / FL 195		even FL 430 / FL 200	Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ OSNUG	505336.26N 0020013.95W					
(RNAV 1)	- /255°	24.5 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).
△ EXARO	510003.26N 0012249.54W					
(RNAV 1)	- /232°	7.9 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△ EVTES	510454.66N 0011257.07W					
(RNAV 1)	- /232°	12.2 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△ GASGU	511223.99N 0005736.02W		SAM R043 21.0 NM 64 FT			Extremity of N514.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N546						
△ NICXI	520046.40N 0050317.78W					Westbound route only. Extremity of N546.
(RNAV 5)	302°/ -	20.1 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ EVTOL	521101.34N 0053114.02W					Intersection with N12.
(RNAV 5)	302°/ -	6.8 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ BAKUR	521429.61N 0054048.81W					FIR/UIR Boundary. Extremity of N546.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N552						
△ RUBEX	551912.14N 0065607.21W					FIR Boundary. Extremity of N552.
(RNAV 5)	083°/264°	44.5 NM	FL 255 / FL 195	odd FL 250 / FL 210	even FL 240 / FL 200	Class C. Scottish ACC Freq: 127.275 (All Levels).
△ MACHRIHANISH DME (MAC)	552548.08N 0053901.49W					Extremity of N552. Intersection with N562.
Route Remarks: For use by tfc climbing to or descending from the NOTA. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N560						
△ GLASGOW DME (GOW)	555213.81N 0042644.60W					Extremity of N560. Intersection with L612 and L602.
(RNAV 5)	009°/189°	16.5 NM	FL 255 / FL 195	odd FL 250 / FL 210	even FL 240 / FL 200	Class C. Scottish ACC Freq: 127.275 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min		Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
				↓	↑	
△ FOYLE	560834.13N 0042256.41W		GOW R008 16.5 NM 46 FT			
(RNAV 5)	009°/189°	19.4 NM	FL 255 / FL 195	odd FL 250 / FL 210	even FL 240 / FL 200	Class C. Scottish ACC Freq: 127.275 (All Levels).
△ ERSON	562747.58N 0041823.67W					
(RNAV 5)	009°/189°	14.4 NM	FL 255 / FL 125	odd FL 250 / FL 130	even FL 240 / FL 140	FL 255/FL 195 Class C, FL 195/FL 125 Class E and TMZ. Scottish ACC Freq: 127.275 (All Levels).
△ INBAS	564200.00N 0041459.11W					
(RNAV 5)	009°/189°	11.7 NM	FL 255 / FL 105	odd FL 250 / FL 110	even FL 240 / FL 120	FL 255/FL 195 Class C, FL 195/FL 105 Class E and TMZ. Scottish ACC Freq: 127.275 (All Levels).
△ LAGAV	565335.12N 0041210.37W					
(RNAV 5)	009°/189°	13.9 NM	FL 255 / FL 105	odd FL 250 / FL 110	even FL 240 / FL 120	FL 255/FL 195 Class C, FL 195/FL 105 Class E and TMZ. Scottish ACC Freq: 127.275 (All Levels).
△ NESDI	570718.00N 0040848.32W					
(RNAV 5)	009°/189°	5.5 NM	FL 195 / FL 105	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. Scottish ACC Freq: 127.275 (All Levels).
△ GUSSI	571246.93N 0040726.86W		INS R189 20.0 NM 42 FT			
(RNAV 5)	009°/189°	8.0 NM	FL 195 / FL 95	odd FL 190 / FL 110	even FL 180 / FL 100	Class E and TMZ. Scottish ACC Freq: 127.275 (All Levels).
△ DAVOT	572041.57N 0040528.57W					
(RNAV 5)	009°/189°	12.0 NM	FL 195 / FL 95	odd FL 190 / FL 110	even FL 180 / FL 100	Class E and TMZ. Scottish ACC Freq: 127.275 (All Levels).
△ RIMOL	573233.45N 0040229.55W					Intersection with Y906.
(RNAV 5)	337°/157°	23.1 NM	FL 195 / FL 95	odd FL 190 / FL 110	even FL 180 / FL 100	Class E and TMZ. Scottish ACC Freq: 134.850 (All Levels).
△ BONBY	575330N 0042036W					
(RNAV 5)	051°/231°	6.6 NM	FL 195 / FL 75	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. Scottish ACC Freq: 134.850 (All Levels).
△ CHINN	575751.00N 0041117.14W					
(RNAV 5)	051°/231°	45.6 NM	FL 195 / FL 75	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. Scottish ACC Freq: 134.850 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ WICK VOR/DME (WIK)	582731.74N 0030601.34W					Intersection with Y904.
(RNAV 5)	013°/194°	30.8 NM	FL 195 / FL 75	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. Scottish ACC Freq: 134.850 (All Levels).
△ KOKAL	585734.82N 0025338.21W					Extremity of N560.
Route Remarks: Transponder carriage and operation required within that part of N560 notified as Class E and TMZ. Inverness Radar provide a radar service for tfc inbound to and outbound from Inverness via N560 during the promulgated hours of Inverness Radar as published in UK AIP AD 2.EGPE AD 2.18 (and as amended by NOTAM). Due to ATC operational requirements, the cruising level allocation between RIMOL and BONBY is inappropriate to the MAG Track. En-route Danger Area EGD703 to the east between RIMOL and WIK.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N562						
△ TURNBERRY DME (TRN)	551848.28N 0044701.91W					Extremity of N562.
(RNAV 5)	285°/105°	7.6 NM	FL 255 / FL 105	even FL 240 / FL 120	odd FL 250 / FL 110	FL 255/FL 195 Class C, FL 195/FL 105 Class E and TMZ. (See Note) Within the confines of the Scottish TMA, N562 assumes the airspace classification of the Scottish TMA. Scottish ACC Freq: 127.275 (All Levels).
△ HERON	552035.29N 0050000.00W					
(RNAV 5)	285°/105°	22.9 NM	FL 255 / FL 105	even FL 240 / FL 120	odd FL 250 / FL 110	FL 255/FL 195 Class C, FL 195/FL 105 Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ MACHRIHANISH DME (MAC)	552548.08N 0053901.49W					Intersection with N552.
(RNAV 5)	287°/107°	35.0 NM	FL 255 / FL 195	even FL 240 / FL 200	odd FL 250 / FL 210	Class C. Scottish ACC Freq: 127.275 (All Levels).
△ AMCON	553431.14N 0063837.46W					
(RNAV 5)	287°/106°	36.8 NM	FL 255 / FL 195	even FL 240 / FL 200	odd FL 250 / FL 210	Class C. Scottish ACC Freq: 127.275 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min** ↓	↑	**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
△ DONIB	554309.46N 0074144.04W					
(RNAV 5)	286°/105°	79.7 NM	FL 255 / FL 195	even FL 240 / FL 200	odd FL 250 / FL 210	Class C. Scottish ACC Freq: 127.275 (All Levels).
△ MIMKU	560000N 0100000W					FIR Boundary. Extremity of N562.

Route Remarks:
The portion of N562 between HERON and MAC below FL 195 is Class E and TMZ.

See also ENR 1.1, paragraph 1.1.3.

Note: Transponder carriage and operation required within that part of N562 notified as Class E and TMZ.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N601						
△ DETLING DME (DET)	511814.41N 0003550.19E					Extremity of N601.
(RNAV 5)	315°/135°	37.6 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between DET and 29 NM from BPK: London ACC Freq: 134.905 (FL 195 and above); Freq: 120.530 (Below FL 195). Between 29 NM from BPK and 25 NM from BPK: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 118.825 (Below FL 175). Between 25 NM from BPK and 14 NM from BPK: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 175); Freq: 118.825 (Below FL 175). Between 14 NM from BPK and 9 NM from BPK: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 115); Freq: 118.825 (Below FL 115). Between 9 NM from BPK and BPK: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					Westbound route only btn BPK and TLA.
(RNAV 5)	329°/ -	23.4 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ POTON	520504.32N 0002537.78W					
(RNAV 5)	329°/ -	9.8 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 132.605 (FL 215 and above); Freq: 130.925 (Below FL 215).
△ BEDFO	521330.00N 0003347.81W					
(RNAV 5)	329°/ -	9.4 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△ EBOTO	522133.30N 0004139.63W					
(RNAV 5)	329°/ -	17.6 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△ PIPIN	523636.06N 0005630.04W					
(RNAV 5)	329°/ -	9.2 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△ LESTA	524427.09N 0010419.42W					Intersection with P6 and Y250.
(RNAV 5)	329°/ -	15.7 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).
← △ EMBOR	525748.00N 0011745.25W					
(RNAV 5)	329°/ -	23.1 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).
△ XAPOS	531728.59N 0013751.25W					
(RNAV 5)	328°/ -	12.4 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).
△ BOLBI	532759.75N 0014845.07W					
(RNAV 5)	328°/ -	9.3 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 119.530 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ULSAX	533554N 0015700W					
(RNAV 5)	328°/ -	10.3 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					
(RNAV 5)	338°/ -	7.7 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ NELSA	535148.00N 0021105.27W					
(RNAV 5)	338°/ -	9.9 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ RIBEL	540058.00N 0021722.76W					
(RNAV 5)	338°/ -	9.1 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ ERGAB	540922N 0022312W					
(RNAV 5)	338°/ -	22.3 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ SHAPP	543000.00N 0023738.33W					
(RNAV 5)	338°/ -	13.5 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish ACC Freq: 126.300 (All Levels).
△ ABEVI	544227.00N 0024629.24W					Intersection with UN590 and UN601.
(RNAV 5)	338°/ -	11.0 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish ACC Freq: 126.300 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ INPIP	545235.54N 0025346.10W					
(RNAV 5)	338°/ -	16.4 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish ACC Freq: 126.300 (All Levels).
△ UTOGU	550740N 0030443W					
(RNAV 5)	338°/ -	1.4 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 126.300 (All Levels).
△ INREV	550857.44N 0030539.46W					
(RNAV 5)	338°/ -	9.8 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 126.300 (All Levels).
△ ESKDO	551756.00N 0031215.26W					
(RNAV 5)	338°/ -	5.1 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 126.300 (All Levels).
△ IPDOR	552239N 0031545W					
(RNAV 5)	338°/ -	7.9 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class D. Scottish ACC Freq: 126.300 (All Levels).
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					
(RNAV 5)	346°/166°	43.4 NM	FL 255 / 6000 FT ALT	even FL 240 / FL 80	odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 126.300 (All Levels).
△ GRICE	561148.00N 0034107.79W		GOW R053 32.2 NM 46 FT			Intersection with P600. Extremity of N601.
Route Remarks: Variable lower limit: Daily from 0700-2000 (0600-1900) btn ERGAB and UTOGU the lower limit is FL 125.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N610						
△ LONAM	535022.32N 0035633.03E					UIR Boundary. Extremity of N610. Intersection with UL7 (see AIP Netherlands).
(RNAV 5)	291°/108°	210.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Between LONAM and abm BAVDO: Scottish ACC Freq: 121.325 (All Levels). Between abm BAVDO and NATEB: Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ NATEB	550218.41N 0014154.13W					Intersection with L602 and N97.
(RNAV 5)	324°/144°	30.8 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ VEREX	552703.29N 0021345.10W					FRA Entry/Exit Point. Extremity of N610.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N621						
△ LELNA	495856.80N 0020623.42W					Westbound route only. FIR/UIR Boundary. Extremity of N621.
(RNAV 5)	- /185°	15.9 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 129.430 (All Levels).
△ MARUK	501446.56N 0020420.41W					
(RNAV 5)	- /198°	27.1 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 129.430 (All Levels).
△ KAPEX	504029.70N 0015059.80W					
(RNAV 5)	- /229°	25.5 NM	FL 460 / FL 155		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.430 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Intersection with L620.
(RNAV 5)	- /213°	9.0 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 155); Freq: 134.125 (Below FL 155).
△ EVTES	510454.66N 0011257.07W					Intersection with N514.
(RNAV 5)	- /213°	15.0 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305 to FL 155); Freq: 134.125 (Below FL 155).
△ GOGSI	511727.16N 0010002.31W		SAM R032 24.0 NM 64 FT			Extremity of N621.
Route Remarks: Due to Brest ACC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N859						
△ SITET	500600N 0000000E					Eastbound route only btn EVEXU and SITET. FIR Boundary. Continues as UN859 and intersects with A34 (See AIP France).
(RNAV 5)	- /155°	7.2 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Dual designation with L151 btn SITET and DRAKE. London ACC Freq: 135.055 (All Levels).
△ DRAKE	501234N 0000434W					
(RNAV 5)	- /146°	31.7 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 25 NM before DRAKE and DRAKE: London ACC Freq: 135.055 (All Levels). Between INKEK and 25 NM before DRAKE: London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ INKEK	503853N 0003209W					
(RNAV 5)	- /145°	2.9 NM	FL 245 / FL 65		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).
△ EVEXU	504115.78N 0003440.86W					
(RNAV 5)	326°/145°	12.1 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ GOODWOOD DME (GWC)	505118.79N 0004524.25W					Eastbound route only btn CPT and GWC.
(RNAV 5)	- /155°	26.3 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between 10 NM before GWC and GWC: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175). Between VAPID and 10 NM before GWC: London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175 to FL 105); Freq: 134.125 (Below FL 105).
△ VAPID	511513.97N 0010242.40W					
(RNAV 5)	- /155°	9.4 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△ ALHAD	512346.75N 0010858.16W					
(RNAV 5)	- /155°	6.3 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ COMPTON VOR/DME (CPT)	512929.66N 0011310.89W					Intersection with Y321.
(RNAV 5)	342°/162°	10.0 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 165); Freq: 129.080 (Below FL 165 to FL 135); Freq: 134.125 (Below FL 135).
△ DIGUT	513901.29N 0011759.47W					
(RNAV 5)	342°/162°	7.6 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between DIGUT and 5 NM from DIGUT: London ACC Freq: 132.165 (FL 215 and above); Freq: 133.080 (Below FL 215 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125). Between 5 NM from DIGUT and KIDLI: London ACC Freq: 132.165 (FL 215 and above); Freq: 133.080 (Below FL 215).
△ KIDLI	514617.00N 0012140.87W		CPT R342 17.6 NM 498 FT			Intersection with L151.
(RNAV 5)	342°/162°	36.9 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between KIDLI and 10 NM from KIDLI: London ACC Freq: 132.165 (FL 215 and above); Freq: 133.080 (Below FL 215). Between 10 NM from KIDLI and HON: London ACC Freq: 134.390 (FL 225 and above); Freq: 133.080 (Below FL 225).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Southbound route only btn SANBA and HON. Intersection with L10, L15, L612 and P155.
(RNAV 5)	- /153°	44.1 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between abm EGBB and HON: London ACC Freq: 134.390 (FL 195 and above); Freq: 133.080 (Below FL 195). Between 10 NM after UTUXA and abm EGBB: London ACC Freq: 134.390 (FL 195 and above). Scottish ACC Freq: 134.430 (Below FL 195). Between UTUXA and 10 NM after UTUXA: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ UTUXA	530030.45N 0021312.52W					Intersection with P18.
(RNAV 5)	- /153°	8.9 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ SANBA	530821.53N 0022002.98W		HON R332 53.0 NM 435 FT			Extremity of N859.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N862						
△ SKESO	494929.42N 0030202.60W					FIR Boundary. Extremity of N862. Intersection with A25 (see AIP France).
(RNAV 5)	333°/153°	11.8 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (FL 195 and above); Jersey Control Freq: 125.205 (Below FL 195).
△ SKERY	500000.00N 0031023.06W		BHD R153 26.9 NM 218 FT			Westbound (southbound) route only btn WAL and SKERY.
(RNAV 1)	- /167°	14.3 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ ENHEL	501354.15N 0031523.42W					Intersection with N90.
(RNAV 1)	- /167°	9.5 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.080 (All Levels).
△ TONQU	502309.42N 0031845.03W					
(RNAV 1)	- /187°	5.2 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.080 (All Levels).
△ BUDXE	502818.29N 0031744.21W					Intersection with L149.
(RNAV 1)	- /187°	17.5 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.080 (All Levels).
△ SIDHO	504538.88N 0031417.65W					Intersection with N40.
(RNAV 1)	- /187°	37.1 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ PACSE	512226.78N 0030650.70W					Intersection with N92.
(RNAV 5)	- /187°	30.7 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ABWIV	515248.67N 0030032.70W					
(RNAV 5)	- /183°	4.3 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ UBCAM	515704.18N 0030012.19W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 5)	- /183°	10.6 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/ FL 195 Class C, FL 195/FL 145 Class A. Between WEVBE and abm DIZIM: London ACC Freq: 133.600 (All Levels). Between abm DIZIM and UBCAM: 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ WEVBE	520736.93N 0025921.14W					
(RNAV 5)	- /183°	10.0 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 133.600 (All Levels).
△ RUMKE	521735.37N 0025832.48W					
(RNAV 5)	- /183°	19.6 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 133.600 (All Levels).
△ LUCSA	523706.60N 0025656.18W					
(RNAV 5)	- /183°	5.6 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 133.600 (All Levels).
△ ALHUP	524244.24N 0025628.15W					Base level change is aligned with PEPZE CTA 9.
(RNAV 5)	- /188°	5.4 NM	FL 245 / FL 125		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).
△ OGTAW	524807.11N 0025512.39W					Base level change is aligned with PEPZE CTA 8.
(RNAV 5)	- /189°	5.6 NM	FL 245 / FL 95		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ KARNO	525339.55N 0025354.05W					FRA Entry Point.
(RNAV 5)	- /184°	8.2 NM	FL 460 / FL 95		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ RISLA	530151.39N 0025312.29W					Intersection with L15.
(RNAV 5)	- /184°	2.8 NM	FL 460 / FL 95		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ NOKIN	530436.00N 0025258.25W					
(RNAV 5)	- /155°	21.0 NM	FL 460 / FL 95		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Extremity of N862.

Route Remarks:
SIDHO - SKERY CDR H24.

PACSE - ENHEL below FL 195 only available for flight planning Fri 1700 - Mon 0745 (0645).

PACSE - SIDHO above FL 195 only available for flight planning Mon-Thu 1700-0830 (1700-0730) and Fri (or the day preceding a PH) 1700 to Mon (or the day following a PH) 0830 (0730).

Due to ATC operational requirements, the cruising level allocation between NOKIN and TONQU is inappropriate to the MAG Track.

See also ENR 1.1, paragraph 1.1.3.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
N864						
△ SKERY	500000.00N 0031023.06W		BHD R153 26.9 NM 218 FT			Extremity of N864. Intersection with N862.
(RNAV 5)	333°/153°	26.9 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (All Levels).
△ BERRY HEAD VOR/DME (BHD)	502354.96N 0032937.28W					
(RNAV 5)	007°/186°	6.3 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 126.080 (All Levels).
△ ABBEW	503011.88N 0032833.64W					
(RNAV 5)	006°/187°	4.3 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 126.080 (All Levels).
△ DAWLY	503427.31N 0032750.23W					Intersection with N92.
(RNAV 1)	008°/187°	37.5 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. Between DAWLY and 10 NM from DAWLY: London ACC Freq: 126.080 (All Levels). Between 10 NM from DAWLY and WIGGU: 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ WIGGU	511136.66N 0032027.75W					Eastbound (northbound) route only btn WIGGU and WAL.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 1)	007°/ -	13.6 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between WIGGU and 5 NM from CARWI: 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels). Between 5 NM from CARWI and CARWI: 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ CARWI	512505.88N 0031744.16W					Intersection with N91.
(RNAV 5)	007°/ -	16.5 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ETNAH	514126.45N 0031423.74W					
(RNAV 5)	007°/ -	7.0 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ TIGWE	514822.73N 0031257.91W					Intersection with L9.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 5)	007°/ -	6.0 NM	FL 245 / FL 135	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 135 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ AZCAL	515417.03N 0031144.52W					
(RNAV 5)	003°/ -	8.1 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ DIZIM	520223.59N 0031107.44W					
(RNAV 5)	003°/ -	5.6 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 133.600 (All Levels).
△ KIPWI	520757.35N 0031041.87W					
(RNAV 5)	003°/ -	29.6 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 133.600 (All Levels).
△ KISWO	523727.16N 0030824.49W					
(RNAV 5)	003°/ -	5.6 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 133.600 (All Levels).
△ AVTIC	524304.81N 0030757.93W					Base level change is aligned with PEPZE CTA 7. Intersection with N38.
(RNAV 5)	352°/ -	5.5 NM	FL 245 / FL 125	even FL 240 / FL 140		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).
△ OSWEZ	524832.27N 0030915.07W					Base level change is aligned with PEPZE CTA 5.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
(RNAV 5)	352°/ -	5.1 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).
△ MONTY	525334.00N 0031026.44W		WAL R183 30.0 NM 55 FT			Intersection with P16.
(RNAV 5)	003°/ -	5.4 NM	FL 245 / FL 65	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 65 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ GODPA	525900N 0031001W					
(RNAV 5)	003°/ -	5.0 NM	FL 245 / 4500 FT ALT	even FL 240 / FL 60		FL 245/FL 195 Class C, FL 195/4500 FT Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ REXAM	530400.00N 0030937.21W		WAL R183 19.6 NM 55 FT			
(RNAV 5)	003°/ -	3.8 NM	FL 245 / 4500 FT ALT	even FL 240 / FL 60		FL 245/FL 195 Class C, FL 195/4500 FT Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ IVLOD	530746N 0030919W					
(RNAV 5)	003°/ -	15.8 NM	FL 245 / 3000 FT ALT	even FL 240 / FL 60		Between IVLOD and the northern boundary of PEPZE CTA 1 (532002N 0030821W): FL 245/FL 195 Class C, FL 195/3000 FT Class A. Between the northern boundary of PEPZE CTA 1 (532002N 0030821W) and WAL: Class C. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Intersection with L10, L151, M146, N862 and Y53.
(RNAV 5)	356°/176°	12.2 NM	FL 245 / FL 195	even FL 240 / FL 200	odd FL 230 / FL 210	Class C. Scottish ACC Freq: 118.780 (All Levels).
△ GUNTU	533537.40N 0030953.64W					
(RNAV 5)	356°/176°	8.3 NM	FL 245 / FL 195	even FL 240 / FL 200	odd FL 230 / FL 210	Class C. Scottish ACC Freq: 118.780 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BILVO	534352.26N 0031108.89W					
(RNAV 5)	356°/176°	39.2 NM	FL 245 / FL 195	even FL 240 / FL 200	odd FL 230 / FL 210	Class C. Between BILVO and 5415N: Scottish ACC Freq: 118.780 (All Levels). Between 5415N and SUBUK: Scottish ACC Freq: 124.825 (All Levels).
△ SUBUK	542247.81N 0031710.85W					
(RNAV 5)	356°/176°	20.6 NM	FL 245 / FL 195	even FL 240 / FL 200	odd FL 230 / FL 210	Class C. Scottish ACC Freq: 124.825 (All Levels).
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					Intersection with L612.
(RNAV 5)	001°/181°	20.1 NM	FL 245 / FL 95	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit; see Route Remarks) Scottish ACC Freq: 126.300 (All Levels).
△ ASRUS	550321N 0032045W					
(RNAV 5)	001°/181°	17.9 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 126.300 (All Levels).
△ UNURO	552111N 0032102W					
(RNAV 5)	001°/181°	8.8 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class D. Scottish ACC Freq: 126.300 (All Levels).
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					
(RNAV 5)	009°/189°	37.5 NM	FL 255 / 6000 FT ALT	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 124.500 (All Levels).
△ PIPAR	560700.00N 0031205.74W					
(RNAV 5)	009°/189°	5.1 NM	FL 255 / FL 65	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/FL 65 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ NOVBA	561200N 0031051W					
(RNAV 5)	009°/189°	11.3 NM	FL 255 / FL 85	odd FL 250 / FL 90	even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 124.500 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ IBOLU	562310N 0030803W					
(RNAV 5)	009°/189°	18.7 NM	FL 255 / FL 105	odd FL 250 / FL 110	even FL 240 / FL 120	FL 255/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ ASNUD	564139.00N 0030320.35W					Extremity of N864. Intersection with P600.
Route Remarks: Due to ATC operational requirements, the cruising level allocation between BHD and AVTIC, MONTY and WAL, and DCS and TLA is inappropriate to the MAG Track. Variable lower limit: Daily from 0700-2000 (0600-1900) between DCS and ASRUS the lower limit is FL 125.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N866						
△ LORKU	495618.10N 0022215.64W					Westbound route only btn DIGSU and LORKU. FIR/UIR Boundary. Extremity of N866.
(RNAV 5)	- /185°	20.5 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 129.430 (All Levels).
△ LAWJO	501645.92N 0021943.34W					
(RNAV 5)	- /198°	14.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 129.430 (All Levels).
△ ROKSI	503012.62N 0021251.28W					
(RNAV 5)	- /198°	10.9 NM	FL 460 / FL 165		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 165 Class A. London ACC Freq: 129.430 (All Levels).
△ BILNI	504031.08N 0020732.56W					
(RNAV 5)	- /241°	34.1 NM	FL 460 / FL 155		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.430 (All Levels).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Intersection with L620.
(RNAV 5)	- /224°	21.0 NM	FL 460 / FL 75		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 129.430 (FL 155 and above); Freq: 134.125 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ GASGU	511223.99N 0005736.02W		SAM R043 21.0 NM 64 FT			
(RNAV 5)	- /230°	77.2 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Between DIGSU and 00025E: London ACC Freq: 133.940 (All Levels). Between 00025E and 00030W: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between 00030W and GASGU: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ DIGSU	520126N 0003805E					Intersection with P5 and P144.
(RNAV 5)	059°/239°	37.2 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 133.940 (All Levels).
△ BANEM	522008.11N 0013019.26E					Westbound route only btn TIPAN and BANEM.
(RNAV 5)	- /241°	53.8 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Between BUKUT and 25 NM from BANEM: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355). Between 25 NM from BANEM and BANEM: London ACC Freq: 133.940 (All Levels).
△ BUKUT	524530.21N 0024801.68E					Intersection with P7.
(RNAV 5)	- /205°	12.4 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ KUBAX	525633.93N 0025713.20E					
(RNAV 5)	- /205°	12.4 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ TOLSA	530736.89N 0030629.38E					
(RNAV 5)	- /205°	7.5 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ AKOKO	531416.24N 0031207.03E					
(RNAV 5)	- /206°	11.1 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ BINBO	532406.07N 0032029.35E					
(RNAV 5)	- /206°	13.7 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ LARDI	533616.09N 0033057.16E					
(RNAV 5)	- /205°	25.9 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ WECOW	535916.41N 0035103.10E					Intersection with L7.
(RNAV 5)	- /206°	41.4 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq 121.325 (All Levels).
△ TIPAN	543554.13N 0042356.20E					FRA Exit Point. Extremity of N866.
Route Remarks: SAM - LORKU CDR H24. Rest of N866 - PERM. Due to Brest ACC operational requirements, the cruising level allocation is inappropriate to the MAG Track between GASGU and LORKU.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
N867						
△ GARMI	500000.00N 0012249.59W					Eastbound route only. FIR Boundary. For continuation see AIP France.
(RNAV 1)	009°/ -	30.6 NM	FL 245 / FL 125	even FL 240 / FL 200		Between GARMI and 502619N 0011615W: Class C. Between 502619N 0011615W and VASUX: FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 127.830 (All Levels).
△ VASUX	503009.23N 0011516.99W					
(RNAV 1)	032°/ -	22.6 NM	FL 245 / FL 125	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 127.830 (All Levels).
△ AVANT	504912.00N 0005618.05W		GWC R252 7.2 NM 122 FT			Extremity of N867.
Route Remarks: GARMI - VASUX FL 195 and above CDR, below FL 195 unavailable for Flight Planning (but may be used tactically by ATC) H24. Rest of N867 - PERM. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P1						
△ GODOS	531456.55N 0032546.79E					FIR/UIR Boundary.
(RNAV 5)	339°/159°	9.7 NM	FL 460 / FL 175	even FL 430 / FL 180	odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. Scottish ACC Freq: 121.325 (FL 245 and above). ATS Delegated to Amsterdam ACC below FL 245.
△ BINBO	532406.07N 0032029.35E					
(RNAV 5)	339°/159°	16.6 NM	FL 460 / FL 175	even FL 430 / FL 180	odd FL 450 / FL 190	FL 460/FL 195 Class C, FL 195/FL 175 Class A. Scottish ACC Freq: 121.325 (FL 245 and above). ATS Delegated to Amsterdam ACC below FL 245.
△ ROKAN	533947.50N 0031119.84E					Westbound route only btn ROKAN and RODSI. Intersection with M604, M982 and N96.
(RNAV 5)	005°/ -	22.6 NM	FL 460 / FL 195	even FL 430 / FL 200		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ TINDI	540214.26N 0031529.49E					
(RNAV 5)	005°/ -	16.2 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ROLUM	541819.85N 0031831.29E					Intersection with M90 and P13.
(RNAV 5)	344°/ -	18.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ GIGUL	543626.27N 0031009.89E					
(RNAV 5)	319°/ -	15.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ RODSI	544755.62N 0025335.05E					Extremity of P1. Intersection with P58.

Route Remarks:
GIGUL - RODSI CDR H24.
Rest of P1 - PERM.

Due to ATC operational requirements, the cruising level allocation between ROKAN and ROLUM is inappropriate to the MAG Track.

See also ENR 1.1, paragraph 1.1.3.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P2						
△ DOVER DME (DVR)	510945.44N 0012132.71E					Eastbound route only. Extremity of P2. Intersection with (U)L9, L10 and L18.
(RNAV 1)	- /095°	30.0 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275 to FL 195); Freq: 120.530 (Below FL 195).
△ ZORFE	511256.13N 0003407.87E					
(RNAV 1)	- /094°	11.0 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275 to FL 195); Freq: 120.530 (Below FL 195).
△ HABCI	511401.12N 0001644.96E					Intersection with L722.
(RNAV 1)	- /094°	9.1 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 255); Freq: 128.430 (Below FL 255 to FL 195); Freq: 120.530 (Below FL 195).
△ PAWDE	511453.21N 0000216.94E					
(RNAV 1)	- /094°	45.7 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between NIGIT and 15 NM before PAWDE: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 129.080 (Below FL 175). Between 15 NM before PAWDE and PAWDE: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 165); Freq: 120.530 (Below FL 165).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NIGIT	511846.96N 0011014.71W		MID R306 25.8 NM 233 FT			Intersection with L18.
(RNAV 1)	- /096°	15.0 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between SIRIC and 7 NM before NIGIT: London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265). Between 7 NM before NIGIT and NIGIT: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155).
△ SIRIC	512036.17N 0013358.89W					FRA Exit Point.
(RNAV 1)	- /096°	16.0 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.755 (All Levels).
△ CAWZE	512227.35N 0015920.05W					
(RNAV 1)	- /096°	18.0 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.755 (All Levels).
△ ORZEB	512425.86N 0022753.73W					
(RNAV 1)	- /095°	43.7 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 134.755 (All Levels)
△ AMFUL	512844.40N 0033721.36W					Extremity of P2.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P4						
△ HAWFA	513208.71N 0023812.55W					Eastbound route only btn BCN and HAWFA. Extremity of P4. Intersection with L607.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 5)	- /105°	9.7 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C; FL 195/FL 105 Class A; FL 105/FL 75 Class D. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ LEKCI	513440.46N 0025314.66W					
(RNAV 5)	- /123°	16.6 NM	FL 245 / FL 75		odd FL 230 / FL 90	Between BCN and the southern boundary of Cotswold CTA 12 (513634N 0025802W): FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between the southern boundary of Cotswold CTA 12 (513634N 0025802W) and LEKCI: FL 245/FL 195 Class C, FL 195/FL 105 Class A, FL 105/FL 75 Class D. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ BRECON DME (BCN)	514331.89N 0031546.92W					Westbound route only btn BCN and FELCA.
(RNAV 1)	301°/ -	5.6 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600 - 2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300 - 0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ TIZDU	514622.64N 0032337.75W					
(RNAV 1)	300°/ -	6.2 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△	FELCA	514930.86N 0033219.61W					Extremity of P4. Intersection with L9.

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P5							
△	DIGSU	520126N 0003805E					Extremity of P5. Intersection with N866 and UM185.
(RNAV 5)		015°/195°	20.2 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 133.940 (All Levels).
△	UMBAG	522052.37N 0004657.48E					
(RNAV 5)		013°/194°	63.4 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Between UMBAG and 5 NM north of UMBAG: London ACC Freq: 133.940 (All Levels). Between 5 NM north of UMBAG and ELNAB: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△	ELNAB	532211N 0011251E					
(RNAV 5)		014°/194°	127.4 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△	GOTGO	552506.55N 0020850.44E					FRA Entry/Exit Point. Extremity of P5.
Route Remarks: DIGSU - GOTGO CDR H24.							

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
P6						
△ LESTA	524427.09N 0010419.42W					Westbound route only. Extremity of P6.
(RNAV 5)	316°/ -	41.4 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. Between LESTA and 15 NM south of RODOL: London ACC Freq: 127.105 (All Levels). Between 15 NM south of RODOL and RODOL: Scottish ACC Freq: 118.780 (All Levels).
△ RODOL	531417N 0015143W					Extremity of partition of P6. Intersection with L28.
(RNAV)						ROUTE BREAK - THIS ROUTE IS NOT CONTINUOUS.
△ NELBO	542924.15N 0051810.39W					Westbound route only. Extremity of partition of P6.
(RNAV 5)	290°/ -	5.5 NM	FL 255 / FL 55	even FL 240 / FL 60		FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ IPSET	543105.63N 0052708.92W					
(RNAV 5)	290°/ -	28.5 NM	FL 255 / FL 55	even FL 240 / FL 60		FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ BELZU	543940.00N 0061348.00W					Extremity of P6.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
P7						
△ LOGAN	514451.32N 0013642.58E		CLN R108 18.3 NM 100 FT			Westbound route only. Extremity of P7. Intersection with L980.
(RNAV 5)	- /227°	13.6 NM	FL 460 / FL 85		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ IDESI	515351.74N 0015308.08E					
(RNAV 5)	- /228°	18.9 NM	FL 460 / FL 85		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between 5 NM before IDESI and IDESI: London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215). Between SONOG and 5 NM before IDESI: London ACC Freq: 133.940 (FL 215 and above); Freq: 135.425 (Below FL 215).
△ SONOG	520619.71N 0021610.08E					Intersection with Y4.
(RNAV 5)	- /205°	25.0 NM	FL 460 / FL 215		even FL 430 / FL 220	Class C. London ACC Freq: 133.940 (All Levels).
△ BARMI	522841.76N 0023413.73E					Intersection with P25.
(RNAV 5)	- /205°	18.8 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ BUKUT	524530.21N 0024801.68E					Extremity of P7.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P13						
△ ROLUM	541819.85N 0031831.29E					Westbound route only. Extremity of P13.
(RNAV 5)	355°/ -	39.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ASKAM	545747.34N 0031349.91E					Extremity of P13. Intersection with L7 and UP59.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P15						
△ NATEB	550218.41N 0014154.13W					Eastbound route only. Extremity of P15.
(RNAV 5)	069°/ -	24.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ DIGBI	551105.57N 0010301.45W					
(RNAV 5)	069°/ -	17.1 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 134.775 (All Levels).
△ ERLOT	551714.26N 0003505.84W					
(RNAV 5)	069°/ -	30.4 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 134.775 (All Levels).
△ GIVEM	552753.52N 0001452.78E					FRA Entry Point. Extremity of P15.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P16						
△ SKESO	494929.42N 0030202.60W					Eastbound (northbound) route only between SKESO and NOKIN. FIR Boundary. Extremity of P16.
(RNAV 1)	298°/ -	6.1 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (FL 195 and above). Jersey Control Freq: 125.205 (Below FL 195).
△ LIFOX	495220.46N 0031022.75W					
(RNAV 1)	333°/ -	12.4 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between LIFOX and 4 NM before EMWIP: London ACC Freq: 126.080 (FL 195 and above). Jersey Control Freq: 125.205 (Below FL 195). Between 4 NM before EMWIP and EMWIP: London ACC Freq: 126.080 (All Levels).
△ EMWIP	500319.72N 0031908.98W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min		Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
				↓	↑	
(RNAV 1)	333°/ -	15.2 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.080 (All Levels).
△ FIMCA	501648.49N 0033000.82W					Intersection with N22.
(RNAV 1)	333°/ -	13.8 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 126.080 (All Levels).
△ TOJAQ	502859.78N 0033956.26W					
(RNAV 1)	007°/ -	6.4 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 126.080 (All Levels).
△ ILZIC	503518.71N 0033844.20W					
(RNAV 1)	007°/ -	9.7 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 126.080 (All Levels).
△ EXKIC	504453.02N 0033654.36W					
(RNAV 1)	007°/ -	11.5 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. 0600-2300 (0500-2200) London ACC Freq: 126.080 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 126.080 (All Levels).
△ FARJO	505616.27N 0033442.70W					
(RNAV 1)	007°/ -	18.2 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 126.080 (All Levels).
△ EPACE	511420.88N 0033111.46W					Intersection with N91.
(RNAV 1)	007°/ -	41.8 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 134.755 (All Levels).
△ ACCOP	515544.33N 0032257.07W					
(RNAV 1)	003°/ -	12.6 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 133.600 (All Levels).
△ BIFCU	520816.67N 0032202.77W					
(RNAV 1)	003°/ -	19.6 NM	FL 245 / FL 175	even FL 240 / FL 180		FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 133.600 (All Levels).
△ MOCQO	522748.08N 0032037.20W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 1)	003°/ -	10.0 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 133.600 (All Levels).
△ PEPZE	523746.62N 0031952.98W					
(RNAV 1)	020°/ -	5.9 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 133.600 (All Levels).
△ AXCIS	524319.48N 0031634.76W					
(RNAV 1)	020°/ -	5.7 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).
△ MOFWE	524839.37N 0031323.42W					
(RNAV 1)	020°/ -	5.2 NM	FL 245 / FL 85	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).
△ MONTY	525334.00N 0031026.44W		WAL R183 30.0 NM 55 FT			Intersection with N864.
(RNAV 5)	044°/ -	15.3 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ NOKIN	530436.00N 0025258.25W					Intersection with N862 and P17.
(RNAV 5)	021°/201°	23.7 NM	FL 245 / FL 105	even FL 240 / FL 200	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (Above FL 195); Freq: 128.055 (FL 195 and below).
△ ASMIM	532645.75N 0023910.71W		WAL R079 17.6 NM 55 FT			
(RNAV 5)	021°/201°	11.6 NM	FL 245 / FL 105	even FL 240 / FL 200	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (Above FL 195); Freq: 128.055 (FL 195 and below).
△ CROFT	533736.89N 0023219.85W		WAL R056 25.6 NM 55 FT			Intersection with L612 and Y70.
(RNAV 5)	021°/201°	25.0 NM	FL 245 / FL 105	even FL 240 / FL 200	odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (Above FL 195); Freq: 135.715 (FL 195 and below).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ RIBEL	540058.00N 0021722.76W					Eastbound route only btn GASKO and RIBEL. Intersection with N601.
(RNAV 5)	- /224°	17.2 NM	FL 245 / FL 125		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 118.780 (Above FL 195); Freq: 135.715 (FL 195 and below).
△ GASKO	541328.97N 0015721.30W		POL R010 29.4 NM 1438 FT			Extremity of P16.
Route Remarks: Due to ATC operational requirements, the cruising level allocation between TOJAQ and GASKO is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P17						
△ ZESPE	513309.63N 0025314.43W					Westbound (southbound) route only between NOKIN and ZESPE. Extremity of P17. Intersection with N92.
(RNAV 1)	- /188°	18.3 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 134.755 (All Levels).
△ ELNIF	515119.24N 0024921.61W					
(RNAV 1)	- /183°	3.1 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 134.755 (All Levels)
△ OXCUD	515423.03N 0024906.11W					
(RNAV 1)	- /183°	8.9 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 134.755 (All Levels).
△ OSSEP	520317.32N 0024820.85W					
(RNAV 1)	- /183°	17.4 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 133.600 (All Levels).
△ EDFAR	522035.66N 0024652.02W					
(RNAV 1)	- /183°	10.0 NM	FL 245 / FL 175		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 133.600 (All Levels).
△ BEPHE	523033.98N 0024600.31W					
(RNAV 1)	- /183°	6.2 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 133.600 (All Levels).
△ ATHAS	523644.93N 0024528.05W					

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
(RNAV 1)	- /171°	5.8 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 133.600 (All Levels).
△ CONHA	524226.44N 0024659.26W					
(RNAV 1)	- /171°	5.5 NM	FL 245 / FL 125		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).
△ MIDJO	524754.42N 0024827.24W					
(RNAV 1)	- /171°	16.9 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Between NOKIN and 6 NM from MIDJO: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195). Between 6 NM from MIDJO and MIDJO: London ACC Freq: 133.600 (FL 145 and above). Scottish ACC Freq: 128.055 (Below FL 145).
△ NOKIN	530436.00N 0025258.25W					Intersection with N862 and P16.
(RNAV 5)	035°/215°	12.9 NM	FL 245 / FL 105	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ KUXEM	531511.07N 0024046.76W		MCT R247 16.3 NM 280 FT			
(RNAV 5)	035°/215°	15.9 NM	FL 245 / FL 105	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 128.055 (Below FL 195).
△ BARTN	532814.17N 0022541.11W		POL R215 20.1 NM 1438 FT			Intersection with L612 and L975.
(RNAV 5)	036°/216°	20.1 NM	FL 245 / FL 105	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Eastbound route only btn POL and OBOXA. Intersection with N601 and P18.
(RNAV 5)	015°/ -	21.0 NM	FL 245 / FL 95	odd FL 230 / FL 110		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ IPSIR	540454N 0015657W					
(RNAV 5)	015°/ -	5.9 NM	FL 245 / FL 125	odd FL 230 / FL 130		FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ OBOXA	541035.55N 0015420.13W					Extremity of P17.
Route Remarks: ATHAS - OXCUD CDR H24. Due to ATC operational requirements, the cruising level allocation between NOKIN and POL and between ATHAS and ZESPE is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P18						
△ TELBA	523952.00N 0021906.97W					Extremity of P18.
(RNAV 5)	013°/194°	12.2 NM	FL 245 / FL 145	even FL 240 / FL 160	odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 195 and above). Scottish ACC Freq: 134.430 (Below FL 195).
△ STAFA	525141.00N 0021434.55W		DTY R314 58.2 NM 600 FT			Intersection with L8.
(RNAV 5)	006°/186°	8.9 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ UTUXA	530030.45N 0021312.52W					Intersection with N859.
(RNAV 5)	006°/186°	8.1 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			Intersection with L612.
(RNAV 5)	006°/186°	36.2 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between LISTO and abm MCT: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195). Between abm MCT and POL: Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Intersection with N57 and P17.
(RNAV 5)	011°/191°	21.5 NM	FL 245 / FL 95	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 135.715 (Below FL 195).
△ IDKOL	540543N 0015945W					
(RNAV 5)	011°/191°	3.2 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ ABKAT	540853.12N 0015846.69W					
(RNAV 5)	011°/191°	4.7 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ GASKO	541328.97N 0015721.30W		POL R010 29.4 NM 1438 FT			Intersection with P16 and Y250.
(RNAV 5)	011°/191°	11.7 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800.
△ UVAVU	542500.07N 0015345.95W					
(RNAV 5)	011°/191°	8.0 NM	FL 245 / FL 105	even FL 240 / FL 120	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 125 Class A, FL 125/FL 105 Class D. Scottish ACC Freq: 124.500 (FL 225 and above); Freq: 133.800 (Below FL 225 to FL 165); Newcastle Approach Freq: 124.380 (Below FL 165).
△ TILNI	543251.41N 0015117.89W		POL R010 49.1 NM 1438 FT			
(RNAV 5)	011°/191°	10.0 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 125 Class A, FL 125/FL 75 Class D. Scottish ACC Freq: 124.500 (FL 225 and above); Freq: 133.800 (Below FL 225 to FL 165); Newcastle Approach Freq: 124.380 (Below FL 165).
△ GIRLI	544240.51N 0014811.49W					
(RNAV 5)	011°/191°	20.0 NM	FL 245 / FL 55	even FL 240 / FL 60	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 125 Class A, FL 125/FL 55 Class D. Scottish ACC Freq: 124.500 (FL 225 and above); Freq: 133.800 (Below FL 225 to FL 165); Newcastle Approach Freq: 124.380 (Below FL 165).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NATEB	550218.41N 0014154.13W					Intersection with Y96.
(RNAV 5)	011°/191°	4.7 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ ELMUD	550656N 0014024W					
(RNAV 5)	011°/191°	20.3 NM	FL 245 / FL 155	even FL 240 / FL 160	odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ ALASO	552650.23N 0013353.69W					
(RNAV 5)	349°/169°	15.7 NM	FL 255 / FL 155	even FL 240 / FL 160	odd FL 250 / FL 170	FL 255/FL 195 Class C, FL 195/FL 155 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ RITSI	554209.36N 0013925.50W					
(RNAV 5)	349°/169°	12.9 NM	FL 255 / FL 155	even FL 240 / FL 160	odd FL 250 / FL 170	FL 255/FL 195 Class C, FL 195/FL 155 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ MADAD	555447.35N 0014402.48W					
(RNAV 5)	349°/169°	18.4 NM	FL 255 / FL 155	even FL 240 / FL 160	odd FL 250 / FL 170	FL 255/FL 195 Class C, FL 195/FL 155 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ NEXUS	561243.34N 0015040.99W					
(RNAV 5)	349°/169°	17.5 NM	FL 255 / FL 135	even FL 240 / FL 140	odd FL 250 / FL 150	FL 255/FL 195 Class C, FL 195/FL 135 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ BALID	562949.16N 0015706.88W					
(RNAV 5)	349°/169°	10.0 NM	FL 255 / FL 115	even FL 240 / FL 120	odd FL 250 / FL 130	FL 255/FL 195 Class C, FL 195/FL 115 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ UPGET	563935N 0020050W					
(RNAV 5)	349°/169°	10.0 NM	FL 255 / FL 75	even FL 240 / FL 80	odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ OKPAL	564921N 0020435W					
(RNAV 5)	349°/169°	6.3 NM	FL 255 / FL 65	even FL 240 / FL 80	odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/FL 65 Class D. Scottish ACC Freq: 124.500 (All Levels).
△ EPCAN	565532N 0020659W					
(RNAV 5)	349°/169°	23.7 NM	FL 255 / FL 115	even FL 240 / FL 120	odd FL 250 / FL 130	FL 255/FL 195 Class C, FL 195/FL 115 Class D. Scottish ACC Freq: 124.500 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ ABERDEEN VOR/DME (ADN)	571837.62N 0021602.09W					Extremity of P18.
Route Remarks: NATEB - ADN CDR H24 – Unavailability as specified by NOTAM when required for MOD access or by activation of EGD514Z. Rest of P18 - PERM. Due to ATC operational requirements, the cruising level allocation between TELBA and ALASO is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
P25						
△ LAPRA	520707.18N 0011236.45E					Westbound route only. Extremity of P25.
(RNAV 5)	- /245°	15.8 NM	FL 460 / FL 105		even FL 430 / FL 120	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ MIPVO	521329N 0013609E					
(RNAV 5)	- /246°	8.9 NM	FL 460 / FL 165		even FL 430 / FL 180	FL 460/FL 195 Class C, FL 195/FL 165 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ DITOB	521701.15N 0014927.08E					
(RNAV 5)	- /246°	10.0 NM	FL 460 / FL 195		even FL 430 / FL 200	Class C. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ MEGEL	522057.94N 0020425.20E					
(RNAV 5)	- /246°	19.8 NM	FL 460 / FL 195		even FL 430 / FL 200	Class C. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ BARMI	522841.76N 0023413.73E					Extremity of P25.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P38						
△ RENEQ	541424.84N 0041759.87E					UIR Boundary. Extremity of P38.
(RNAV 5)	291°/110°	198.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ROBEM	552733.36N 0010113.69W					FRA Entry/Exit Point. Extremity of P38.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P39						
△ ROVNI	535313N 0003901E					Extremity of P39. Intersection with UL975.
(RNAV 5)	079°/260°	130.8 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
RENEQ	541424.84N 0041759.87E					Extremity of P39. UIR Boundary.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P40						
△ ADGEG	531343N 0021906E					Extremity of P40. Intersection with UM185. Westbound route only btn ROKAN and ADGEG.
(RNAV 5)	- /229°	40.7 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ROKAN	533947.50N 0031119.84E					Intersection with P48.
(RNAV 5)	047°/227°	52.5 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ RENEQ	541424.84N 0041759.87E					Extremity of P40. UIR Boundary.
Route Remarks: CDR H24.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P43						
△ LARDI	533616.09N 0033057.16E					Extremity of P43. Intersection with N866. Westbound route only.
(RNAV 5)	- /226°	20.8 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ LONAM	535022.32N 0035633.03E					Extremity of P43. UIR Boundary.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P44						
△ BRAIN	514839.91N 0003906.00E		BKY R115 24.4 NM 486 FT			Eastbound route only. Extremity of P44.
(RNAV 5)	082°/ -	5.3 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ DAGGA	514919.37N 0004739.00E		CLN R262 13.2 NM 100 FT			
(RNAV 5)	082°/ -	13.2 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 121.230 (Below FL 155).
△ CLACTON VOR/DME (CLN)	515054.50N 0010851.32E					Intersection with L620.
(RNAV 5)	065°/ -	21.6 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between CLN and 9 NM from CLN: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 121.230 (Below FL 155). Between 9 NM from CLN and RATLO: London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ RATLO	515929.13N 0014055.18E					Intersection with M197.
(RNAV 5)	060°/ -	11.2 NM	FL 460 / FL 135	odd FL 450 / FL 150		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ PIXAM	520447N 0015650E					
(RNAV 5)	061°/ -	29.1 NM	FL 460 / FL 195	odd FL 450 / FL 210		Class C. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ SOMVA	521826.00N 0023838.44E					FIR/UIR Boundary. Extremity of P44. Intersection with UP155 (see AIP Netherlands).
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P48						
△ LATMU	531525N 0020522E					Extremity of P48. Eastbound route only.
(RNAV 5)	057°/ -	46.4 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ROKAN	533947.50N 0031119.84E					Extremity of P48. Intersection with P40.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P49						
△ XAMAN	514704.77N 0021326.94E					Westbound route only. FIR/UIR Boundary. Extremity of P49.
(RNAV 5)	297°/ -	14.3 NM	FL 460 / FL 105	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ IDESI	515351.74N 0015308.08E					Intersection with Y6.
(RNAV 5)	297°/ -	28.3 NM	FL 460 / FL 105	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ LAPRA	520707.18N 0011236.45E					Extremity of P49.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P58						
△ RENEQ	541424.84N 0041759.87E					UIR Boundary. Extremity of P58.
(RNAV 5)	307°/127°	39.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ PELET	543912.33N 0032551.54E					Intersection with L7.
(RNAV 5)	294°/114°	14.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ODMOS	544526.32N 0030252.23E					Intersection with N44.
(RNAV 5)	294°/113°	5.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ RODSI	544755.62N 0025335.05E					
(RNAV 5)	293°/112°	99.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ GIVEM	552753.52N 0001452.78E					FRA Entry/Exit Point. Extremity of P58.
Route Remarks: RENEQ - PELET / ODMOS - GIVEM CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P69						
△ BRECON DME (BCN)	514331.89N 0031546.92W					Eastbound route only. Extremity of P69.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 5)	009°/ -	5.0 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above). Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ EXBUM	514829.61N 0031433.78W					
(RNAV 5)	009°/ -	5.0 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ FEBWI	515327.13N 0031320.42W					
(RNAV 5)	009°/ -	4.0 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ INFUS	515725.85N 0031221.35W					
(RNAV 5)	009°/ -	5.0 NM	FL 245 / FL 145	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 145 Class A. 0600-2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300-0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ DIZIM	520223.59N 0031107.44W					Extremity of P69. Intersection with N864.
Route Remarks: Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P70						
△ AGCAT	515128.74N 0044454.82W					Eastbound route only. Extremity of P70. Intersection with Q63.
(RNAV 1)	- /101°	18.2 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ ADHAV	515452.88N 0051348.51W					
(RNAV 1)	- /107°	31.3 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ ENJEX	520321.06N 0060227.78W					FIR Boundary. Extremity of P70.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P72						
△ ALHAD	512346.75N 0010858.16W					Eastbound route only. Extremity of P72.
(RNAV 5)	063°/ -	38.4 NM	FL 460 / FL 165	odd FL 450 / FL 170		FL 460/FL 195 Class C, FL 195/FL 165 Class A. Between ALHAD and 17 NM before IPRIL: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215). Between 17 NM before IPRIL and IPRIL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215).
△ IPRIL	514028.81N 0001335.35W					Intersection with M197.
(RNAV 5)	044°/ -	6.3 NM	FL 460 / FL 165	odd FL 450 / FL 170		FL 460/FL 195 Class C, FL 195/FL 165 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					Extremity of P72. Intersection with UM185, N16 and Q295.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P73						
△ GOBNU	512052.92N 0010625.12W					Eastbound route only. Extremity of P73.
(RNAV 1)	- /120°	15.7 NM	FL 245 / FL 65		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 132.165 (FL 215 and above); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△ REFQI	512846.15N 0012804.33W					
(RNAV 1)	- /085°	7.9 NM	FL 245 / FL 105		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 134.755 (All Levels).
△ NUCHU	512808.10N 0014035.43W					Extremity of P73.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P83						
△ BOLRO	500000.00N 0014129.43W					Eastbound route only. FIR Boundary. Extremity of P83.
(RNAV 5)	024°/ -	34.2 NM	FL 245 / FL 125	even FL 240 / FL 200		Between BOLRO and 501437N 0013130W: Class C. Between 501437N 0013130W and KATHY: FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 127.830 (All Levels).
△ KATHY	503113.59N 0012000.23W		SAM R178 26.1 NM 64 FT			Intersection with L89 and L980.
(RNAV 5)	359°/ -	8.6 NM	FL 245 / FL 125	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 127.830 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△	ELDER	503948.10N 0012013.93W		SAM R178 17.5 NM 64 FT			
(RNAV 5)		359°/ -	17.5 NM	FL 245 / FL 125	even FL 240 / FL 200		FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 127.830 (All Levels).
△	SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Extremity of P83. Intersection with Q41.
Route Remarks: BOLRO - KATHY FL 195 and above CDR, below FL 195 unavailable for Flight Planning but may be used tactically by ATC. Rest of P83 - PERM. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.							

Route Designator		Route Usage Notes					
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P86							
△	SAWPE	513504.67N 0013916.42W					FRA Entry Point. Westbound route only. Extremity of P86. Intersection with Q63.
(RNAV 5)		- /261°	9.8 NM	FL 460 / FL 85		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265).
△	DIDZA	513627.71N 0012343.46W					Intersection with L9 and N14.
(RNAV 5)		- /225°	20.5 NM	FL 460 / FL 85		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 133.080 (Below FL 215 to FL 165); Freq: 119.780 (Below FL 165).
△	SILVA	515051.34N 0010019.40W					Extremity of P86.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P87						
△ BOLRO	500000.00N 0014129.43W					Eastbound route only. FIR Boundary. Extremity of P87.
(RNAV 1)	017°/ -	16.7 NM	FL 245 / FL 125	even FL 240 / FL 200		Between BOLRO and 501101N 0013609W: Class C. Between 501101N 0013609W and ROXOG: FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 127.830 (All Levels).
△ ROXOG	501558.29N 0013344.41W					Extremity of P87. Intersection with L982.
Route Remarks: FL 195 and above CDR, below FL195 unavailable for Flight Planning but may be used tactically by ATC. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P88						
△ ODREP	500000.00N 0013007.46W					Eastbound route only. FIR Boundary. Extremity of P88.
(RNAV 1)	017°/ -	15.8 NM	FL 245 / FL 125	even FL 240 / FL 200		Class C. London ACC Freq: 127.830 (All Levels).
△ GOKTU	501504.87N 0012244.57W					
(RNAV 1)	017°/ -	15.8 NM	FL 245 / FL 125	even FL 240 / FL 200		Between GOKTU and 502510N 0011746W: Class C. Between 502510N 0011746W and VASUX: FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 127.830 (All Levels).
△ VASUX	503009.23N 0011516.99W					Extremity of P88.
Route Remarks: FL 195 and above CDR, below FL195 unavailable for Flight Planning but may be used tactically by ATC. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track. See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P137						
△ REDFA	520652.75N 0022916.81E					Eastbound route only. UIR Boundary. Extremity of P137. Intersection with UL620 (see AIP Netherlands).
(RNAV 5)	- /098°	91.8 NM	FL 460 / FL 205		odd FL 450 / FL 210	Class C. London ACC Freq: 133.940 (All Levels).
△ SIVDA	522121.54N 0000147.01E					Extremity of P137.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P144						
△ MATCH	514645.20N 0001500.00E		BPK R082 13.4 NM 392 FT			Eastbound route only. Extremity of P144.
(RNAV 5)	043°/ -	20.5 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between MATCH and 8 NM from MATCH: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155). Between 8 NM from MATCH and DIGSU: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 121.230 (Below FL 155).
△ DIGSU	520126N 0003805E					Intersection with M85 and N866.
(RNAV 5)	034°/ -	23.6 NM	FL 460 / FL 195	odd FL 450 / FL 210		Class C. Between DIGSU and 12 NM from DIGSU: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245). Between 12 NM from DIGSU and TUZLA: London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ TUZLA	522040.55N 0010011.74E					
(RNAV 5)	035°/ -	67.6 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Between TUZLA and 6 NM from TUZLA: London ACC Freq: 133.940 (All Levels). Between 6 NM from TUZLA and LATMU: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ LATMU	531525N 0020522E					Intersection with P48.
(RNAV 5)	035°/ -	121.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 134.775 (All Levels).
△ LARGA	545149.54N 0040911.97E					FRA Entry Point. Extremity of P144.
Route Remarks: MATCH - LARGA CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P155						
△ SOMVA	521826.00N 0023838.44E					Eastbound route only. FIR Boundary. Continues as UP155 (see AIP Netherlands).
(RNAV 5)	- /091°	28.5 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 133.940 (All Levels).
△ ABEDA	521939.63N 0015215.84E					
(RNAV 5)	- /091°	13.5 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ BANEM	522008.11N 0013019.26E					
(RNAV 5)	- /091°	26.6 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ UMBAG	522052.37N 0004657.48E					
(RNAV 5)	- /090°	27.7 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 133.940 (FL 215 and above); Freq: 124.930 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ SIVDA	522121.54N 0000147.01E					Intersection with P137.
(RNAV 5)	- /090°	9.7 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 215); Freq: 130.925 (Below FL 215).
△ BANTO	522127.65N 0001357.38W					
(RNAV 5)	- /090°	17.0 NM	FL 460 / FL 195		odd FL 450 / FL 210	Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 215); Freq: 130.925 (Below FL 215).
△ EBOTO	522133.30N 0004139.63W					
(RNAV 5)	- /090°	25.7 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 450/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 215); Freq: 130.925 (Below FL 215).
△ UNGAP	522129.49N 0012338.97W		HON R089 9.9 NM 435 FT			
(RNAV 5)	- /089°	9.9 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 450/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 225); Freq: 130.925 (Below FL 225).
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Intersection with L15 and UL612.
(RNAV 5)	- /089°	22.9 NM	FL 460 / FL 305		odd FL 450 / FL 310	Class C. London ACC Freq: 134.390 (All levels).
△ FACTU	522102.96N 0021713.23W					FRA Exit Point. Extremity of P155.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P166						
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Eastbound route only. Extremity of P166.
(RNAV 5)	067°/ -	10.5 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 215); Freq: 130.925 (Below FL 215).
△ WELIN	521450.25N 0005108.41W		HON R101 30.6 NM 435 FT			
(RNAV 5)	073°/ -	23.8 NM	FL 460 / FL 205	odd FL 450 / FL 210		Class C. London ACC Freq: 133.940 (All Levels).
△ BANTO	522127.65N 0001357.38W					Extremity of P166. Intersection with P155.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
P600						
△ ROTEV	540143.72N 0060358.39W					Northbound route only btn ROTEV and BLACA. FIR Boundary.
(RNAV 5)	028°/ -	37.8 NM	FL 255 / FL 75	odd FL 250 / FL 90		FL 255/FL 195 Class C, FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ GOTNA	543541.43N 0053552.85W					
(RNAV 5)	043°/ -	23.1 NM	FL 255 / FL 55	odd FL 250 / FL 70		FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ BLACA	545300.00N 0050931.92W		TRN R208 28.9 NM 586 FT			Intersection with P620.
(RNAV 5)	028°/208°	15.3 NM	FL 255 / FL 55	odd FL 250 / FL 70	even FL 240 / FL 60	FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ TUNSO	550640.24N 0045740.78W		TRN R208 13.6 NM 586 FT			
(RNAV 5)	028°/208°	5.0 NM	FL 255 / FL 55	odd FL 250 / FL 70	even FL 240 / FL 60	FL 255/FL 195 Class C, FL 195/FL 55 Class D. Scottish ACC Freq: 123.775 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ GIRVA	551107.99N 0045346.67W		TRN R208 8.6 NM 586 FT			Base level change is aligned with Scottish TMA.
(RNAV 5)	028°/208°	8.6 NM	FL 255 / 6000 FT ALT	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/Alt 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ TURNBERRY DME (TRN)	551848.28N 0044701.91W					
(RNAV 5)	036°/217°	29.4 NM	FL 255 / 6000 FT ALT	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/Alt 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ FENIK	554254.65N 0041730.91W		GOW R152 10.7 NM 46 FT			Intersection with L612.
(RNAV 5)	037°/217°	5.4 NM	FL 255 / 6000 FT ALT	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/Alt 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ GOSAM	554719.18N 0041202.10W		TRN R035 34.8 NM 586 FT			
(RNAV 5)	037°/217°	30.0 NM	FL 255 / 6000 FT ALT	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/Alt 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ GRICE	561148.00N 0034107.79W		GOW R053 32.2 NM 46 FT			Intersection with N601.
(RNAV 5)	037°/217°	2.7 NM	FL 255 / 6000 FT ALT	odd FL 250 / FL 70	even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/Alt 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ ENUKU	561400N 0033819W					
(RNAV 5)	037°/217°	4.4 NM	FL 255 / FL 55	odd FL 250 / FL 70	even FL 240 / FL 60	FL 255/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ EDONU	561736N 0033341W					
(RNAV 5)	037°/217°	5.6 NM	FL 255 / FL 85	odd FL 250 / FL 90	even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ FINDO	562209.05N 0032748.80W					
(RNAV 5)	037°/217°	5.4 NM	FL 255 / FL 85	odd FL 250 / FL 90	even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ PERTH VOR (PTH)	562632.63N 0032206.96W					
(RNAV 5)	036°/216°	18.4 NM	FL 255 / FL 105	odd FL 250 / FL 110	even FL 240 / FL 120	FL 255/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 124.500 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ASNUD	564139.00N 0030320.35W					Intersection with N864.
(RNAV 5)	036°/216°	5.1 NM	FL 255 / FL 105	odd FL 250 / FL 110	even FL 240 / FL 120	FL 255/FL 195 Class C, FL 195/FL 105 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ GANKI	564548N 0025808W					
(RNAV 5)	036°/216°	10.0 NM	FL 255 / FL 85	odd FL 250 / FL 90	even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ GLESK	565400.00N 0024745.28W					
(RNAV 5)	036°/216°	4.1 NM	FL 255 / FL 55	odd FL 250 / FL 70	even FL 240 / FL 60	FL 255/FL 195 Class C, FL 195/FL 55 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ NAXIL	565724N 0024326W					
(RNAV 5)	036°/216°	26.0 NM	FL 255 / FL 115	odd FL 250 / FL 130	even FL 240 / FL 120	FL 255/FL 195 Class C, FL 195/FL 115 Class A. Scottish ACC Freq: 124.500 (All Levels).
△ ABERDEEN VOR/DME (ADN)	571837.62N 0021602.09W					Intersection with Y904 and Y905.
(RNAV 5)	067°/247°	26.0 NM	FL 195 / FL 65	odd FL 190 / FL 70	even FL 180 / FL 80	Class E and TMZ. (See Note) Within the confines of the Aberdeen CTR/CTA, P600 assumes the airspace classification of the Aberdeen CTR/ CTA. Scottish ACC Freq: 134.850 (All Levels).
△ OSLEL	572858.48N 0013158.07W					
(RNAV 5)	067°/248°	9.1 NM	FL 195 / FL 105	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ LESNI	573233.14N 0011622.40W					
(RNAV 5)	068°/248°	24.9 NM	FL 255 / FL 105	odd FL 250 / FL 110	even FL 240 / FL 120	FL 255/FL 195 Class C, FL 195/FL 105 Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ BUDON	574206.85N 0003343.38W					
(RNAV 5)	068°/248°	30.0 NM	FL 255 / FL 195	odd FL 250 / FL 210	even FL 240 / FL 200	Class C. Scottish ACC Freq: 134.850 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ OVDAN	575320.66N 0001818.06E					Extremity of P600.
Route Remarks: When gliding conditions are favourable the use of P600 between GRICE and PTH may be suspended during daylight hours on Saturdays and Sundays. Aircraft will then be routed via N864 by Scottish ACC. Transponder carriage and operation required within that part of P600 notified as Class E and TMZ. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
P620						
△ NIMAT	535754.10N 0054431.75W					Westbound route only. FIR Boundary. For continuation see AIP Ireland.
(RNAV 5)	- /208°	12.0 NM	FL 255 / FL 95		even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 95 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ NUMPI	540840.17N 0053536.26W					
(RNAV 5)	- /208°	23.1 NM	FL 255 / FL 95		even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 95 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ NELBO	542924.15N 0051810.39W					
(RNAV 5)	- /194°	24.2 NM	FL 255 / FL 95		even FL 240 / FL 100	FL 255/FL 195 Class C, FL 195/FL 95 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ BLACA	545300.00N 0050931.92W		TRN R208 28.9 NM 586 FT			Extremity of P620.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q3						
△ LAMBOURNE DME (LAM)	513845.69N 0000906.13E					Westbound route only btn LAM and OCK.
(RNAV 5)	227°/ -	30.4 NM	FL 245 / FL 95	even FL 240 / FL 100		FL 245/FL 195 Class C, FL 195/FL 95 Class A. Between LAM and abm BPK: London ACC Freq: 128.160 (All Levels). Between abm BPK and 5 NM north of OCK: London ACC Freq: 132.165 (FL 215 and above); Freq: 127.955 (Below FL 215). Between 5 NM north of OCK and OCK: London ACC Freq: 132.605 (FL 215 and above); Freq: 127.955 (Below FL 215).
△ OCKHAM DME (OCK)	511818.17N 0002649.86W					Eastbound route only btn OCK and MOGLI.
(RNAV 5)	002°/ -	30.1 NM	FL 460 / FL 185	odd FL 450 / FL 190		FL 460/FL 195 Class C, FL 195/FL 185 Class A. Between OCK and 5 NM south of HEMEL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215). Between 5 NM south of HEMEL and HEMEL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 130.925 (Below FL 215).
△ HEMEL	514820.00N 0002509.78W					Intersection with T420.
(RNAV 5)	010°/ -	30.7 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Between HEMEL and 10 NM north of HEMEL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between 10 NM north of HEMEL and MOGLI: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ MOGLI	521830.00N 0001608.63W					Extremity of Q3. Intersection with L613.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
Q4						
△ EMBOR	525748.00N 0011745.25W					Westbound route only btn EMBOR and LISTO. Extremity of Q4.
(RNAV 5)	292°/ -	14.6 NM	FL 245 / FL 115	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 127.105 (FL 195 and above). Scottish ACC Freq: 134.430 (Below FL 195).
△ TRENT DME (TNT)	530314.23N 0014011.90W					Intersection with L28.
(RNAV 5)	286°/ -	19.9 NM	FL 245 / FL 75	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			
(RNAV 5)	297°/117°	21.6 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ VABKA	531808.31N 0024410.02W					Intersection with L8.
(RNAV 5)	291°/111°	15.3 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 210	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Scottish ACC Freq: 118.780 (FL 195 and above); Freq: 134.430 (Below FL 195).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Eastbound route only btn GIGTO and WAL. Intersection with L10, L975, M146 and N864.
(RNAV 5)	- /114°	11.7 NM	FL 245 / FL 145		odd FL 230 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ NOMSU	532806.04N 0032603.79W					
(RNAV 5)	- /114°	25.7 NM	FL 245 / FL 145		odd FL 230 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ GIGTO	533801.06N 0040550.62W					Extremity of Q4.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q36						
△ NUGRA	530146.43N 0021813.52W		WAL R126 37.0 NM 55 FT			Eastbound route only. Extremity of Q36. Intersection with Y53.
(RNAV 1)	- /114°	45.4 NM	FL 460 / FL 145		odd FL 450 / FL 150	Between NUGRA and 6 NM east of EPOXI: FL 460/FL 195 Class C, FL 195/FL 145 Class A. Between 6 NM east of EPOXI and EPOXI: Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ EPOXI	531958.70N 0032717.71W					Intersection with L15.
(RNAV 1)	- /114°	7.4 NM	FL 460 / FL 85		odd FL 450 / FL 90	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ NOSLO	532253.72N 0033841.89W					Intersection with Z197.
(RNAV 1)	- /095°	11.8 NM	FL 460 / FL 85		odd FL 450 / FL 90	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ ALAVA	532342.60N 0035817.31W					Intersection with Z195.
(RNAV 1)	- /095°	32.0 NM	FL 460 / FL 145		odd FL 450 / FL 150	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ ABGEP	532539.32N 0045139.71W					
(RNAV 1)	- /094°	11.0 NM	FL 460 / FL 125		odd FL 450 / FL 130	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ RULAV	532614.35N 0051001.25W					
(RNAV 1)	- /094°	12.0 NM	FL 460 / FL 45		odd FL 450 / FL 50	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).
△ ENDEQ	532644.38N 0053000.00W					FIR/UIR Boundary. Extremity of Q36.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q37						
△ MALUD	532448.17N 0033630.30W		WAL R275 17.1 NM 55 FT			Eastbound route only. Extremity of Q37. Intersection with L15, (U)L975 and Q38.
(RNAV 1)	- /110°	13.4 NM	FL 460 / FL 85		odd FL 450 / FL 90	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ DONAX	532911.34N 0035740.24W					
(RNAV 1)	- /095°	32.0 NM	FL 460 / FL 145		odd FL 450 / FL 150	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ BAVUD	533108.30N 0045109.14W					
(RNAV 1)	- /094°	11.0 NM	FL 460 / FL 125		odd FL 450 / FL 130	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BAKOX	533143.40N 0050933.03W					
(RNAV 1)	- /094°	12.2 NM	FL 460 / FL 45		odd FL 450 / FL 50	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285 to FL 245). ATS delegated to Dublin ACC Freq: 129.180 (Below FL 245).
△ BOFUM	533213.98N 0053000.00W					FIR/UIR Boundary. Extremity of Q37.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q38						
△ NUGRA	530146.43N 0021813.52W		WAL R126 37.0 NM 55 FT			Eastbound route only. Extremity of Q38. Intersection with (U)Y53.
(RNAV 1)	- /117°	42.7 NM	FL 460 / FL 145		odd FL 450 / FL 150	Between NUGRA and 3 NM east of VOLFI: FL 460/FL 195 Class C, FL 195/FL 145 Class A. Between 3 NM east of VOLFI and VOLFI: Class C (All Levels). London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ VOLFI	532035.13N 0032150.51W					Intersection with Z197.
(RNAV 1)	- /117°	9.7 NM	FL 460 / FL 145		odd FL 450 / FL 150	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ MALUD	532448.17N 0033630.30W		WAL R275 17.1 NM 55 FT			
(RNAV 1)	- /128°	22.0 NM	FL 460 / FL 145		odd FL 450 / FL 150	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ GIGTO	533801.06N 0040550.62W					Intersection with (U)Q4.
(RNAV 1)	- /128°	18.3 NM	FL 285 / FL 145		odd FL 270 / FL 150	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ SOSIM	534855.75N 0043030.46W					Intersection with (U)L28. FRA Exit Point.
(RNAV 1)	- /128°	16.1 NM	FL 255 / FL 145		odd FL 250 / FL 150	FL 255/FL 195 Class C, FL 195/FL 145 Class D. Scottish ACC Freq: 133.050 (All Levels).
△ MAKUX	535829.90N 0045227.89W					
(RNAV 1)	- /128°	22.0 NM	FL 255 / FL 145		odd FL 250 / FL 150	Between MAKUX and 540305N 0050307W: Class C (All Levels). Between 540305N 0050307W and VAKPO: FL 255/FL 195 Class C, FL 195/FL 145 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ VAKPO	541125.09N 0052239.23W					
(RNAV 1)	- /128°	8.3 NM	FL 255 / FL 85		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 85 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ PEPOD	541616.31N 0053409.26W					Extremity of Q38.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q39						
△ NOMSU	532806.04N 0032603.79W					Eastbound route only. Extremity of Q39. Intersection with Q4.
(RNAV 1)	- /126°	22.5 NM	FL 460 / FL 85		odd FL 450 / FL 90	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ DANDI	534103.71N 0035658.08W					Intersection with (U)L28.
(RNAV 1)	- /126°	19.7 NM	FL 460 / FL 85		odd FL 450 / FL 90	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ INKOB	535216.19N 0042414.43W					FRA Exit Point.
(RNAV 1)	- /126°	8.4 NM	FL 255 / FL 85		odd FL 250 / FL 90	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ TIMIS	535700.98N 0043556.41W					
(RNAV 1)	- /131°	8.8 NM	FL 255 / FL 85		odd FL 250 / FL 90	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ ETIGA	540239.17N 0044726.67W					
(RNAV 1)	- /131°	22.1 NM	FL 255 / FL 85		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 85 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ BABGU	541639.33N 0051625.07W					
(RNAV 1)	- /127°	12.7 NM	FL 255 / FL 85		odd FL 250 / FL 90	FL 255/FL 195 Class C, FL 195/FL 85 Class D. Scottish ACC Freq: 129.100 (FL 255 and above); Freq: 123.775 (Below FL 255).
△ RINGA	542354.44N 0053415.66W					Extremity of Q39.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q41						
△ ORTAC	495957.02N 0020018.02W		GUR R035 41.0 NM 343 FT			FIR Boundary. For continuation see AIP France.
(RNAV 5)	023°/204°	32.7 NM	FL 135 / FL 55	odd FL 130 / FL 70	even FL 120 / FL 60	Class A. London ACC Freq: 129.430 (All Levels).
△ THRED	502955.11N 0013950.03W		SAM R203 30.0 NM 64 FT			Intersection with Z171.
(RNAV 5)	024°/204°	11.0 NM	FL 125 / FL 55	odd FL 110 / FL 70	even FL 120 / FL 60	Class A. London ACC Freq: 129.430 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min		Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
				↓	↑	
△ NEDUL	503958.00N 0013251.86W		SAM R203 19.0 NM 64 FT			Intersection with Z171.
(RNAV 5)	024°/204°	19.0 NM	FL 125 / FL 55	odd FL 110 / FL 70	even FL 120 / FL 60	Class A. Between NEDUL and 11 NM from NEDUL: London ACC Freq: 129.430 (All Levels). Between 11 NM from NEDUL and SAM: London ACC Freq: 129.080 (FL 105 and above); Freq: 134.125 (Below FL 105).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Intersection with Z171.
(RNAV 5)	015°/195°	15.0 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 129.430 (All Levels).
△ PEPIS	511147.95N 0011437.22W		SAM R014 15.0 NM 64 FT			
(RNAV 5)	015°/195°	10.4 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△ TABEN	512149.05N 0011022.46W					
(RNAV 5)	015°/195°	7.2 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between TABEN and 5 NM north of TABEN: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105). Between 5 NM north of TABEN and NORRY: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NORRY	512847.11N 0010724.13W					
(RNAV 5)	015°/195°	8.5 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between NORRY and 5 NM south of COWLY: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135). Between 5 NM south of COWLY and COWLY: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215).
△ COWLY	513657.58N 0010353.72W					
(RNAV 5)	009°/189°	14.1 NM	FL 460 / FL 85	odd FL 450 / FL 90	even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 121.030 (Below FL 215).
△ SILVA	515051.34N 0010019.40W					Extremity of Q41. Intersection with M605.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q60						
△ KOPUL	513231.76N 0010813.84E		DET R053 24.8 NM 645 FT			Westbound route only. Extremity of Q60.
(RNAV 5)	275°/ -	47.2 NM	FL 460 / FL 315	even FL 430 / FL 320		Class C. Between KOPUL and 13 NM from KOPUL: London ACC Freq: 128.160 (All Levels). Between 13 NM from KOPUL and UGBET: London ACC Freq: 127.430 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ UGBET	513701.15N 0000705.18W					
(RNAV 5)	275°/ -	58.8 NM	FL 460 / FL 315	even FL 430 / FL 320		Class C. Between UGBET and abm UMLAT: London ACC Freq: 127.430 (All Levels). Between abm UMLAT and OKSAW: London ACC Freq: 134.460 (All Levels).
△ OKSAW	514215.31N 0014108.54W					FRA Entry Point. Extremity of Q60.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q63						
△ SUMUM	513814.25N 0020627.77E					Westbound route only btn SUMUM and ICTAM. FIR/UIR Boundary. For continuation see AIP Netherlands.
(RNAV 1)	260°/ -	5.0 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ BLIXY	513730.25N 0015831.54E					
(RNAV 1)	260°/ -	5.3 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ ARREK	513643.04N 0015007.27E					Intersection with Y4.
(RNAV 1)	260°/ -	8.5 NM	FL 460 / FL 135	even FL 430 / FL 140		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ ERING	513526.45N 0013643.00E					Intersection with L179.
(RNAV 1)	260°/ -	18.0 NM	FL 460 / FL 135	even FL 430 / FL 140		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ KOPUL	513231.76N 0010813.84E		DET R053 24.8 NM 645 FT			
(RNAV 5)	268°/ -	6.0 NM	FL 460 / FL 135	even FL 430 / FL 140		FL 460/FL 195 Class C, FL 195/FL 135 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245).
△ IDITU	513224.79N 0005837.35E					
(RNAV 5)	268°/ -	22.1 NM	FL 460 / FL 135	even FL 430 / FL 140		FL 460/FL 195 Class C, FL 195/FL 135 Class A. Between IDITU and 5 NM from IDITU: London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245). Between 5 NM from IDITU and IPKUS: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 175); Freq: 123.905 (Below FL 175).
△ IPKUS	513152.43N 0002318.58E					Intersection with M40.
(RNAV 5)	270°/ -	58.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between IPKUS and 20 NM from ICTAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between 20 NM from ICTAM and ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ ICTAM	513137.37N 0010948.12W					Intersection with L179, M197 and T421.
(RNAV 5)	224°/045°	3.0 NM	FL 460 / FL 85	even FL 430 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ COMPTON VOR/DME (CPT)	512929.66N 0011310.89W					Intersection with (U)L9, (U)N859, and Y321.
(RNAV 1)	289°/108°	4.8 NM	FL 460 / FL 65	even FL 430 / FL 80	odd FL 450 / FL 250	FL 460/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155).
△ HEKXA	513103.61N 0012026.55W					
(RNAV 1)	288°/108°	12.4 NM	FL 460 / FL 65	even FL 430 / FL 80	odd FL 450 / FL 250	FL 460/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265 to FL 115); Freq: 134.125 (Below FL 115).
△ SAWPE	513504.67N 0013916.42W					FRA Entry/Exit Point. Westbound route only btn SAWPE and CONKO.
(RNAV 1)	276°/ -	9.0 NM	FL 245 / FL 65	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.755 (All Levels).
△ ASHUM	513607.25N 0015336.46W					
(RNAV 1)	276°/ -	6.0 NM	FL 245 / FL 65	even FL 240 / FL 80		FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.755 (All Levels).
△ CONKO	513648.00N 0020310.18W					
(RNAV 1)	276°/096°	14.2 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between CONKO and the eastern boundary of Cotswold CTA 3 (513723N 0021138W): London ACC Freq: 134.755 (All Levels). Between the eastern boundary of Cotswold CTA 3 (513723N 0021138W) and OZZIL: 0600 - 2300 (0500-2200) London ACC Freq: 134.755 (Above FL 135); Bristol APP Freq: 125.650 (FL 135 and below). 2300 - 0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ OZZIL	513821.34N 0022549.17W					Intersection with N80.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
(RNAV 1)	276°/096°	12.0 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. Between OZZIL and the western boundary of Cotswold CTA 3 (513921N 0024049W): 0600 - 2300 (0500-2200) London ACC Freq: 134.755 (Above FL 135); Bristol APP Freq: 125.650 (FL 135 and below). 2300 - 0600 (2200-0500) London ACC Freq: 134.755 (All Levels). Between the western boundary of Cotswold CTA 3 (513921N 0024049W) and ICCIN: 0600 - 2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300 - 0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ICCIN	513936.80N 0024458.74W					
(RNAV 1)	276°/096°	18.4 NM	FL 245 / FL 95	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. 0600 - 2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300 - 0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ETNAH	514126.45N 0031423.74W					
(RNAV 1)	276°/095°	12.3 NM	FL 245 / FL 95	even FL 240 / FL 100	odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. 0600 - 2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300 - 0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ ZIPWE	514235.40N 0033400.70W					Eastbound route only btn AGCAT and ZIPWE.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
(RNAV 1)	- /102°	4.3 NM	FL 245 / FL 95		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. 0600 - 2300 (0500-2200) London ACC Freq: 134.755 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300 - 0600 (2200-0500) London ACC Freq: 134.755 (All Levels).
△ EGRUF	514327.72N 0034042.18W					
(RNAV 1)	- /102°	8.0 NM	FL 245 / FL 125		odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. 0600 - 2300 (0500-2200) London ACC Freq: 129.380 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300 - 0600 (2200-0500) London ACC Freq: 129.380 (All Levels).
△ AXNEF	514505.23N 0035319.14W					
(RNAV 1)	- /102°	5.3 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. 0600 - 2300 (0500-2200) London ACC Freq: 129.380 (FL 165 and above); Cardiff APP Freq: 125.855 (Below FL 165). 2300 - 0600 (2200-0500) London ACC Freq: 129.380 (All Levels).
△ AMWAB	514608.52N 0040136.69W					
(RNAV 1)	- /102°	9.8 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ BAJJA	514805.01N 0041705.77W					
(RNAV 1)	- /102°	17.6 NM	FL 245 / FL 155		odd FL 230 / FL 170	FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ AGCAT	515128.74N 0044454.82W					Extremity of partition of Q63.
(RNAV)						ROUTE BREAK - THIS ATS ROUTE IS NOT CONTINUOUS.
△ NICXI	520046.40N 0050317.78W					Westbound route only btn NICXI and VATRY. Extremity of partition of Q63.
(RNAV 5)	311°/ -	16.3 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ LANPI	521115.07N 0052329.75W					
(RNAV 5)	351°/ -	12.4 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ TIBGA	522326.45N 0052705.01W					
(RNAV 5)	351°/ -	10.0 NM	FL 245 / FL 155	even FL 240 / FL 160		FL 245/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 129.380 (All Levels).
△ VATRY	523316N 0053000W					FIR Boundary. Extremity of Q63. Intersection with M17 (see AIP Ireland).
Route Remarks: KOPUL - IPKUS, NICXI - VATRY CDR H24. Rest of Q63 - PERM. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q70						
△ VABIK	511447.30N 0020000.00E					Eastbound route only. FIR Boundary. For continuation see AIP Belgium.
(RNAV 5)	- /093°	19.4 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.430 (FL 315 and above); Freq: 134.905 (Below FL 315 to FL 135); Freq: 135.325 (Below FL 135).
△ MOKBU	511610.10N 0012913.78E					
(RNAV 5)	- /093°	16.4 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.430 (FL 315 and above); Freq: 134.905 (Below FL 315 to FL 195); Freq: 120.530 (Below FL 195).
△ ITVIP	511713.75N 0010312.30E					Intersection with L10.
(RNAV 5)	- /092°	17.2 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 195); Freq: 120.530 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ DETLING DME (DET)	511814.41N 0003550.19E					
(RNAV 5)	- /094°	21.2 NM	FL 460 / FL 105		odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 120.530 (Below FL 215).
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					Intersection with L9 and L15.
(RNAV 5)	- /112°	38.8 NM	FL 460 / FL 155		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 119.780 (Below FL 215).
△ BENSU	513444.26N 0005508.45W					Intersection with M605.
(RNAV 5)	- /112°	5.9 NM	FL 460 / FL 155		odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 119.780 (Below FL 215).
△ COWLY	513657.58N 0010353.72W					Extremity of Q70.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q75						
△ BUZAD	515632.08N 0003308.21W		BNN R359 13.0 NM 558 FT			Westbound route only. Extremity of Q75. Intersection with L10 and T420.
(RNAV 5)	- /262°	18.0 NM	FL 245 / FL 95		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. Between 5nm west of UTAVA and BUZAD: London ACC Freq: 127.105 (Below FL 215 to FL 195); Freq: 130.925 (Below FL 195 to FL 165); Freq: 121.280 (Below FL 165 to FL 125); Freq: 119.780 (Below FL 125). Between UTAVA and 5nm west of UTAVA: London ACC Freq: 130.925 (FL 155 and above); Freq: 129.280 (Below FL 155).
△ UTAVA	515846.91N 0000418.79W		BKY R262 5.0 NM 486 FT			Not available for flight planning btn BKY and UTAVA.
(RNAV 5)	- /263°	5.0 NM	FL 245 / FL 95		even FL 240 / FL 100	FL 245/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 130.925 (FL 155 and above); Freq: 129.280 (Below FL 155).
△ BARKWAY DME (BKY)	515923.17N 0000342.87E					Extremity of Q75.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Q295						
△ NUCHU	512808.10N 0014035.43W					FRA Exit Point. Extremity of Q295. Eastbound route only.
(RNAV 1)	079°/ -	19.6 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Between NUCHU and abm HEKXA: London ACC Freq: 134.460 (FL 305 and above); Freq: 133.600 (Below FL 305 to FL 265); Freq: 134.755 (Below FL 265). Between abm HEKXA and ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ ICTAM	513137.37N 0010948.12W					Intersection with M197.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min		Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
				↓	↑	
(RNAV 5)	070°/ -	41.7 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between ICTAM and 5 NM from ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.800 (Below FL 215 to FL 155); Freq: 134.125 (Below FL 155). Between 5 NM from ICTAM and 18 NM from ICTAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 135.800 (Below FL 215 to FL 155); Freq: 119.780 (Below FL 155). Between 18 NM from ICTAM and 31 NM from ICTAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 175); Freq: 135.800 (Below FL 175 to FL 155); Freq: 119.780 (Below FL 155). Between 31 NM from ICTAM and BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					Eastbound route only btn BPK and SOMVA.
(RNAV 5)	082°/ -	11.4 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL460/FL195 Class C, FL195/FL 85 Class A. Between BPK and 6 NM from BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115). Between 6 NM from BPK and TOTRI: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ TOTRI	514629.57N 0001147.72E					
(RNAV 5)	082°/ -	2.0 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ MATCH	514645.20N 0001500.00E		BPK R082 13.4 NM 392 FT			
(RNAV 5)	082°/ -	15.1 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between MATCH and 11 NM from MATCH: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 245); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155). Between 11 NM from MATCH and BRAIN: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BRAIN	514839.91N 0003906.00E		BKY R115 24.4 NM 486 FT			Intersection with M197 and P44.
(RNAV 5)	066°/ -	8.2 NM	FL 460 / FL 85	odd FL 450 / FL 90		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245 to FL 155); Freq: 118.825 (Below FL 155).
△ PAAVO	515149.03N 0005115.76E					Intersection with M604.
(RNAV 5)	067°/ -	71.4 NM	FL 460 / FL 195	odd FL 450 / FL 210		Class C. Between PAAVO and 16 NM from PAAVO: London ACC Freq: 133.940 (FL 245 and above); Freq: 124.930 (Below FL 245). Between 16 NM from PAAVO and SOMVA: London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ SOMVA	521826.00N 0023838.44E					Extremity of Q295. Intersection with UP155 (see AIP Netherlands).

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
T71						
△ VAPID	511513.97N 0010242.40W					Eastbound route only. Extremity of T71. Intersection with N859.
(RNAV 5)	- /178°	5.8 NM	FL 245 / FL 175		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 132.165 (All Levels).
△ TEVSI	512100.75N 0010301.26W					
(RNAV 5)	- /178°	16.0 NM	FL 245 / FL 175		odd FL 230 / FL 190	FL 245/FL 195 Class C, FL 195/FL 175 Class A. London ACC Freq: 132.165 (All Levels).
△ COWLY	513657.58N 0010353.72W					Extremity of T71.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
T256						
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					Eastbound route only. Extremity of T256. Intersection with L612, N57 and N864.
(RNAV 5)	- /135°	19.1 NM	FL 245 / FL 95		odd FL 230 / FL 110	FL 245/FL 195 Class C, FL 195/FL 95 Class A. (Variable lower limit) Scottish ACC Freq: 124.825 (All Levels).
△ RIPNO	545632N 0034415W					
(RNAV 5)	- /135°	17.3 NM	FL 245 / FL 85		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Scottish ACC Freq: 124.825 (All Levels).
△ OSMEG	550826N 0040603W					
(RNAV 5)	- /135°	3.2 NM	FL 245 / 6000 FT ALT		odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/Alt 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ ORVUL	551038.52N 0041007.02W					
(RNAV 5)	- /143°	16.7 NM	FL 255 / 6000 FT ALT		odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ ROVLA	552338.18N 0042824.96W					
(RNAV 5)	- /143°	15.6 NM	FL 255 / 6000 FT ALT		odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 124.825 (All Levels).
△ NORBO	553545.36N 0044543.46W		TRN R003 17.0 NM 586 FT			Extremity of T256.
Route Remarks: Variable lower limit: Daily from 0700-2000 (0600-1900) btn DCS and RIPNO the lower limit is FL 125.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
T418						
△ UMLAT	514019.70N 0004139.32W		DTY R152 34.3 NM 600 FT			Westbound route only. Extremity of T418.
(RNAV 5)	356°/ -	20.9 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 175); Freq: 135.800 (Below FL 175 to FL 155); Freq: 129.280 (Below FL 155 to FL 115); Freq: 118.825 (Below FL 115).
△ WOBUN	520110.27N 0004400.00W		DTY R123 17.1 NM 600 FT			
(RNAV 5)	342°/ -	14.4 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195); Freq: 130.925 (Below FL 195).
△ WELIN	521450.25N 0005108.41W		HON R101 30.6 NM 435 FT			Extremity of T418. Intersection with T420.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
T420						
△ ALESO	503432.24N 0011331.50E					Westbound route only btn ALESO and WELIN. FIR/UIR Boundary. For continuation see AIP France.
(RNAV 5)	314°/ -	24.0 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.430 (FL 195 and above); Freq: 120.175 (Below FL 195).
△ ROTNO	505126.07N 0004641.20E					
(RNAV 5)	314°/ -	9.5 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 355 and above); Freq: 128.430 (Below FL 355 to FL 195); Freq: 120.175 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ETVAX	505806.99N 0003556.27E					
(RNAV 5)	314°/ -	8.5 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 255); Freq: 128.430 (Below FL 255 to FL 195); Freq: 120.175 (Below FL 195).
△ TIGER	510401.82N 0002621.54E		MAY R075 12.6 NM 384 FT			
(RNAV 5)	315°/ -	22.0 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 255); Freq: 128.430 (Below FL 255 to FL 195); Freq: 120.175 (Below FL 195).
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					Intersection with L9.
(RNAV 5)	329°/ -	23.0 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. Between BIG and 15 NM north of BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 120.530 (Below FL 155). Between 15 NM north of BIG and ULTIB: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ ULTIB	513935.57N 0001643.51W		BIG R328 23.0 NM 589 FT			
(RNAV 5)	329°/ -	10.2 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. Between ULTIB and 10 NM north of ULTIB: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 129.280 (Below FL 155). Between 10 NM north of ULTIB and 5 NM south of HEMEL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215 to FL 155); Freq: 121.275 (Below FL 155). Between 5 NM south of HEMEL and HEMEL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 130.925 (Below FL 215 to FL 155); Freq: 121.275 (Below FL 155).
△ HEMEL	514820.00N 0002509.78W					
(RNAV 5)	329°/ -	9.6 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. Between HEMEL and 7 NM north of HEMEL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 130.925 (Below FL 215 to FL 155); Freq: 121.275 (Below FL 155). Between 7 NM north of HEMEL and BUZAD: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 215); Freq: 130.925 (Below FL 215 to FL 155); Freq: 121.275 (Below FL 155).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BUZAD	515632.08N 0003308.21W		BNN R359 13.0 NM 558 FT			Intersection with L10.
(RNAV 5)	329°/ -	13.0 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. Between BUZAD and 10 NM north of BUZAD: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 215); Freq: 130.925 (Below FL 215 to FL 155); Freq: 121.275 (Below FL 155). Between 10 NM north of BUZAD and OLNEY: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195); Freq: 130.925 (Below FL 195).
△ OLNEY	520740.22N 0004403.32W		DTY R102 14.4 NM 600 FT			
(RNAV 5)	329°/ -	8.4 NM	FL 460 / FL 115	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 115 Class A. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195); Freq: 130.925 (Below FL 195).
△ WELIN	521450.25N 0005108.41W		HON R101 30.6 NM 435 FT			Intersection with N57.
(RNAV 5)	328°/148°	16.8 NM	FL 460 / FL 105	even FL 430 / FL 120	odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195); Freq: 130.925 (Below FL 195).
△ AKUPA	522911.57N 0010528.03W					Intersection with (U)Y250.
(RNAV 5)	328°/148°	5.1 NM	FL 460 / FL 105	even FL 430 / FL 120	odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195); Freq: 130.925 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ TIMPO	523331.58N 0010949.71W					
(RNAV 5)	328°/148°	10.0 NM	FL 460 / FL 105	even FL 430 / FL 120	odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. Between TIMPO and 10 NM before ELVOS: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195); Freq: 130.925 (Below FL 195). Between 10 NM before ELVOS and ELVOS: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195); Scottish ACC Freq: 134.430 (Below FL 195 to FL 135); London ACC Freq: 130.925 (Below FL 135).
△ ELVOS	524201N 0011825W					
(RNAV 5)	328°/148°	25.0 NM	FL 460 / FL 105	even FL 430 / FL 120	odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. FL 140 not available between WELIN and TNT. Between ELVOS and 12 NM north of ELVOS: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195). Scottish ACC Freq: 134.430 (Below FL 195 to FL 135). London ACC Freq: 130.925 (Below FL 135). Between 12 NM north of ELVOS and TNT: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295 to FL 195). Scottish ACC Freq: 134.430 (Below FL 195).
△ TRENT DME (TNT)	530314.23N 0014011.90W					Extremity of T420. Intersection with (U)L28.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
T421						
△ KUNAV	503054N 0010356E					Westbound route only. FIR/UIR Boundary. For continuation see AIP France.
(RNAV 5)	321°/ -	32.2 NM	FL 460 / FL 155	even FL 430 / FL 160		FL 460/FL 195 Class C, FL 195/FL 155 Class A. Between KUNAV and 10 NM before NIVKO: London ACC Freq: 128.430 (FL 195 and above); Freq: 120.180 (Below FL 195). Between 10 NM before NIVKO and NIVKO: London ACC Freq: 127.430 (FL 305 and above); Freq: 128.430 (Below FL 305 to FL 195); Freq: 120.180 (Below FL 195).
△ NIVKO	505605.77N 0003227.54E					
(RNAV 5)	321°/ -	10.5 NM	FL 460 / FL 155	even FL 430 / FL 160		FL 460/FL 195 Class C, FL 195/FL 155 Class A. Between NIVKO and 5 NM before BISRU: London ACC Freq: 127.430 (FL 305 and above); Freq: 128.430 (Below FL 305 to FL 195); Freq: 120.180 (Below FL 195). Between 5 NM before BISRU and BISRU: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 255); Freq: 128.430 (Below FL 255 to FL 195); Freq: 120.180 (Below FL 195).
△ BISRU	510418.09N 0002202.82E					
(RNAV 5)	321°/ -	20.0 NM	FL 460 / FL 155	even FL 430 / FL 160		FL 460/FL 195 Class C, FL 195/FL 155 Class A. Between BISRU and 10 NM before BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 255); Freq: 128.430 (Below FL 255 to FL 195); Freq: 120.180 (Below FL 195). Between 10 NM before BIG and BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 128.430 (Below FL 215 to FL 195); Freq: 120.180 (Below FL195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					
(RNAV 5)	285°/ -	46.5 NM	FL 460 / FL 155	even FL 430 / FL 160		FL 460/FL 195 Class C, FL 195/ FL 155 Class A. Between BIG and 20NM from BIG: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 215); Freq: 127.955 (Below FL 215). Between 20NM from BIG and ICTAM: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215).
△ ICTAM	513137.37N 0010948.12W					Intersection with L179.
(RNAV 5)	299°/ -	9.9 NM	FL 460 / FL 155	even FL 430 / FL 160		FL 460/FL 195 Class C, FL 195/FL 155 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215).
△ DIDZA	513627.71N 0012343.46W					Extremity of T421. Intersection with N14.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UL8						
△ STAFA	525141.00N 0021434.55W		DTY R314 58.2 NM 600 FT			Westbound route only. Extremity of UL8.
(RNAV 5)	325°/ -	20.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ NANTI	530814.54N 0023400.51W		WAL R127 25.5 NM 55 FT			
(RNAV 5)	325°/ -	3.5 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ UMKIL	531105.53N 0023723.06W					
(RNAV 5)	331°/ -	8.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ VABKA	531808.31N 0024410.02W					
(RNAV 5)	331°/ -	12.2 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ ASNIP	532843.09N 0025425.97W					Intersection with UL28.
(RNAV 5)	328°/ -	7.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ TADAL	533513.83N 0030135.22W					
(RNAV 5)	327°/ -	10.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BILVO	534352.26N 0031108.89W					Extremity of UL8. Intersection with UP6.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UL9						
△ KONAN	510750.75N 0020000.00E					Eastbound route only btn BIG and KONAN. UIR Boundary. Extremity of UL9. Intersection with UL607 (see AIP Belgium).
(RNAV 5)	- /093°	24.3 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 315 and above); Freq: 134.905 (Below FL 315).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ DOVER DME (DVR)	510945.44N 0012132.71E					
(RNAV 5)	- /101°	13.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 134.905 (Below FL 295).
△ UMTUM	511227.30N 0010102.78E					
(RNAV 5)	- /101°	11.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 132.605 (Below FL 295 to FL 275); Freq: 134.905 (Below FL 275).
△ EMKAD	511449.88N 0004233.94E					
(RNAV 5)	- /101°	5.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 132.605 (Below FL 295 to FL 275); Freq: 134.905 (Below FL 275).
△ LAVRI	511549N 0003449E					
(RNAV 5)	- /100°	10.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 132.605 (Below FL 295 to FL 275); Freq: 134.905 (Below FL 275).
△ DIKVU	511746.89N 0001901.84E					
(RNAV 5)	- /100°	10.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 132.605 (Below FL 295).
△ BIGGIN DME (BIG)	511951.15N 0000205.32E					
(RNAV 5)	281°/101°	8.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ GOXUL	512132.02N 0001033.49W					
(RNAV 5)	281°/101°	33.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ LINDY	512814.12N 0010257.19W					
(RNAV 5)	281°/101°	2.8 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NORRY	512847.11N 0010724.13W					
(RNAV 5)	281°/101°	3.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ COMPTON VOR/DME (CPT)	512929.66N 0011310.89W					Extremity of UL9. Intersection with Q63.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UL28						
△ TRENT DME (TNT)	530314.23N 0014011.90W					Westbound route only btn TNT and MCT. Extremity of UL28.
(RNAV 5)	328°/ -	13.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ RODOL	531417N 0015143W					Intersection with UP6.
(RNAV 5)	297°/ -	16.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ MANCHESTER DME (MCT)	532125.29N 0021544.24W					Intersection with M16.
(RNAV 5)	288°/108°	24.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ ASNIP	532843.09N 0025425.97W					Intersection with UL8.
(RNAV 5)	288°/108°	20.4 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ AGLIL	533441.99N 0032711.30W					
(RNAV 5)	288°/108°	7.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Scottish ACC Freq: 118.780 (Below FL 285).
△ PENIL	533657.47N 0033948.72W		WAL R306 23.2 NM 55 FT			Intersection with UL70 and M144.
(RNAV 5)	293°/113°	11.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ DANDI	534103.71N 0035658.08W					
(RNAV 5)	293°/113°	5.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ LELDO	534259.53N 0040507.00W					Eastbound route only btn SOSIM and LELDO.
(RNAV 5)	- /113°	16.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ SOSIM	534855.75N 0043030.46W					FRA Exit Point. Extremity of UL28.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UL70						
△ DESIG	533138.13N 0015333.70W		POL R149 15.0 NM 1438 FT			Extremity of UL70. Intersection with L603 and UL975.
(RNAV 5)	276°/095°	31.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ KOLID	533425.70N 0024520.23W					
(RNAV 5)	275°/095°	9.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ TADAL	533513.83N 0030135.22W					
(RNAV 5)	275°/095°	5.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ GUNTU	533537.40N 0030953.64W					Intersection with Z196.
(RNAV 5)	275°/095°	17.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ PENIL	533657.47N 0033948.72W		WAL R306 23.2 NM 55 FT			Westbound route only btn PENIL and BAGSO. Intersection with L10 and M144.
(RNAV 5)	275°/ -	10.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ BABRA	533739.37N 0035642.63W					
(RNAV 5)	275°/ -	5.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ GIGTO	533801.06N 0040550.62W					
(RNAV 5)	275°/ -	7.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ UNDUX	533830.25N 0041838.76W					
(RNAV 5)	275°/ -	5.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ SOPAX	533848.89N 0042708.06W					
(RNAV 5)	275°/ -	13.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ RAMOX	533936.72N 0045022.41W					
(RNAV 5)	275°/ -	11.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ OGTUG	534012N 0050850W					
(RNAV 5)	274°/ -	12.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ BAGSO	534047.96N 0053000.00W					UIR Boundary. Extremity of UL70.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UL612						
△ XAMAB	501216.25N 0001552.83E					Eastbound route only btn DCS and XAMAB. UIR Boundary. For continuation see AIP France.
(RNAV 5)	- /146°	12.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ HAWKE	502226.57N 0000524.77E					Intersection with UM189.
(RNAV 5)	- /146°	5.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ BENBO	502704.76N 0000036.71E					Intersection with UY47.
(RNAV 5)	- /146°	18.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ BOGNA	504207.00N 0001505.57W		GWC R115 21.3 NM 122 FT			
(RNAV 5)	- /146°	25.5 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between MID and 10 NM after MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305). Between 10 NM after MID and 10 NM before BOGNA: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 255); Freq: 135.055 (Below FL 255). Between 10 NM before BOGNA and BOGNA: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					Intersection with Y803.
(RNAV 5)	- /158°	25.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between WOD and 15 NM before MID: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305). Between 15 NM before MID and MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ WOODLEY NDB (WOD)	512710.02N 0005243.68W					Intersection with UM605.
(RNAV 5)	- /144°	12.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ COWLY	513657.58N 0010353.72W					Intersection with Q41.
(RNAV 5)	- /153°	24.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ EMKUK	515837.47N 0012114.72W					Intersection with Y321.
(RNAV 5)	- /153°	6.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.390 (All Levels).
△ IXURA	520405N 0012540W					
(RNAV 5)	- /153°	19.4 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.390 (All Levels).
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Intersection with P155.
(RNAV 5)	- /158°	51.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.390 (All Levels).
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			
(RNAV 5)	- /158°	7.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ LOVEL	531506.00N 0021627.98W					
(RNAV 5)	- /158°	14.3 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BARTN	532814.17N 0022541.11W		POL R215 20.1 NM 1438 FT			Intersection with UL975.
(RNAV 5)	- /158°	10.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ CROFT	533736.89N 0023219.85W		WAL R056 25.6 NM 55 FT			
(RNAV 5)	- /158°	9.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ CALDA	534627.00N 0023838.38W					
(RNAV 5)	- /158°	8.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ OBUNI	535440N 0024433W					
(RNAV 5)	- /158°	6.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ VAMEB	540010N 0024832W					
(RNAV 5)	- /158°	15.4 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ LAKEY	541420.00N 0025852.38W					
(RNAV 5)	- /157°	31.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between DCS and 5415N: Scottish ACC Freq: 135.530 (All Levels). Between 5415N and LAKEY: London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					
(RNAV 5)	333°/153°	18.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (All Levels).
△ BEBNI	545905.82N 0033514.22W					
(RNAV 5)	333°/153°	16.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (All Levels).
△ NAVSO	551322.02N 0034848.63W					
(RNAV 5)	333°/153°	18.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (All Levels).
△ ELBUS	552943.28N 0040435.87W					FRA Exit Point. Extremity of UL612.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UL975						
△ LIFFY	532848.28N 0053000.00W					Eastbound route only btn LIFFY and BARTN. UIR Boundary. Extremity of UL975.
(RNAV 5)	094°/ -	12.1 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ IDEXA	532814N 0050951W					
(RNAV 5)	094°/ -	11.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ GINIS	532738.95N 0045128.61W					
(RNAV 5)	095°/ -	8.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ NATKO	532711.99N 0043806.92W					
(RNAV 5)	095°/ -	10.9 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ LYNAS	532633.02N 0042000.00W					
(RNAV 5)	095°/ -	13.1 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ ROLEX	532542.14N 0035803.85W					
(RNAV 5)	095°/ -	12.9 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ MALUD	532448.17N 0033630.30W		WAL R275 17.1 NM 55 FT			Intersection with L15.
(RNAV 5)	095°/ -	17.1 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Intersection with M16, L10, L151, N862 and UY53.
(RNAV 5)	080°/ -	17.6 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ ASMIM	532645.75N 0023910.71W		WAL R079 17.6 NM 55 FT			
(RNAV 5)	080°/ -	8.2 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BARTN	532814.17N 0022541.11W		POL R215 20.1 NM 1438 FT			
(RNAV 5)	080°/260°	9.3 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ SONEX	532952.70N 0021020.86W		POL R189 15.0 NM 1438 FT			
(RNAV 5)	080°/260°	7.7 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ DENBY	533112.53N 0015740.39W		POL R159 14.4 NM 1438 FT			
(RNAV 5)	080°/260°	2.5 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ DESIG	533138.13N 0015333.70W		POL R149 15.0 NM 1438 FT			Intersection with L603 and UL70.
(RNAV 5)	080°/261°	12.1 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ UNIGO	533340N 0013339W					
(RNAV 5)	081°/261°	9.4 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ UPTON	533513.00N 0011802.58W		POL R107 30.2 NM 1438 FT			
(RNAV 5)	081°/261°	2.2 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ ARPUB	533534N 0011428W					
(RNAV 5)	081°/261°	5.7 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ GOLES	533629.08N 0010500.37W		POL R102 37.3 NM 1438 FT			Westbound route only btn LIBSO and GOLES.
(RNAV 5)	- /277°	15.4 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ FIZED	533444.87N 0003917.40W					
(RNAV 5)	- /277°	27.0 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ LIBSO	533129.33N 0000536.32E					Intersection with UT29.
(RNAV 5)	042°/222°	29.5 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Between LIBSO and 15 NM before ROVNI: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285). Between 15 NM before ROVNI and ROVNI: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ ROVNI	535313N 0003901E					Intersection with P39.
(RNAV 5)	057°/238°	99.1 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ODMOS	544526.32N 0030252.23E					
(RNAV 5)	052°/232°	38.6 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ROPAL	550816.53N 0035642.67E					FRA Entry/Exit Point. Extremity of UL975.
Route Remarks: LIBSO - ROPAL CDR H24. Rest of UL975 - PERM.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM8						
△ SUBIP	502644N 0005306E					Westbound route only. UIR Boundary. Extremity of UM8.
(RNAV 5)	286°/ -	9.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 128.430 (All Levels).
△ ELDAX	502918.36N 0003930.42E					
(RNAV 5)	295°/ -	13.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 135.055 (All Levels).
△ WAFFU	503456.89N 0002059.29E					Extremity of UM8. Intersection with Y8.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM65						
△ RODOL	531417N 0015143W					Westbound route only. Extremity of UM65.
(RNAV 5)	331°/ -	25.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ TENSO	533601.89N 0021227.00W					Extremity of UM65. Intersection with L603.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM82						
△ TIPTA	544812.54N 0013641.03W					Eastbound route only. Extremity of UM82.
(RNAV 5)	027°/ -	44.4 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ ROBEM	552733.36N 0010113.69W					FRA Entry Point. Extremity of UM82.
Route Remarks: CDR H24.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM184						
△ KOTEM	500000.00N 0010313.83W					Eastbound route only. UIR Boundary. For continuation see AIP France.
(RNAV 1)	005°/ -	20.2 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).
△ PILIP	502003.05N 0010026.13W					
(RNAV 1)	005°/ -	22.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NELKO	504214.18N 0005717.79W					
(RNAV 1)	005°/ -	7.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).
△ AVANT	504912.00N 0005618.05W		GWC R252 7.2 NM 122 FT			Intersection with L980.
(RNAV 1)	018°/ -	62.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between AVANT and 20 NM north of AVANT: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305). Between 20 NM north of AVANT and 20 NM south of HEMEL: Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305). Between 20 NM south of HEMEL and HEMEL: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).
△ HEMEL	514820.00N 0002509.78W					Extremity of UM184. Intersection with Q3 and T420.
Route Remarks: KOTEM - AVANT CDR H24. Rest of UM184 - PERM. Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM185						
△ LUGIS	500000.00N 0005220.10W					Eastbound route only btn LUGIS and BPK. UIR Boundary. For continuation see AIP France.
(RNAV 1)	005°/ -	19.5 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).
△ ADLOG	501925.00N 0004933.40W					
(RNAV 1)	005°/ -	17.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).
△ DESNA	503700.00N 0004700.31W					
(RNAV 1)	005°/ -	11.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ TELTU	504839.92N 0004517.69W					
(RNAV 5)	018°/ -	15.4 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					
(RNAV 5)	025°/ -	12.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ MODMI	511400.99N 0002909.99W					
(RNAV 5)	018°/ -	4.5 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Between MODMI and 5 NM south of OCK: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305). Between 5 NM south of OCK and OCK: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.185 (Below FL 305).
△ OCKHAM DME (OCK)	511818.17N 0002649.86W					Intersection with Q3.
(RNAV 5)	025°/ -	25.4 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Between OCK and 3 NM from OCK: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305). Between 3 NM from OCK and KOBBI: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).
△ KOBBI	514113.77N 0000918.34W					Intersection with M197.
(RNAV 5)	025°/ -	4.2 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					
(RNAV 5)	058°/239°	32.1 NM	FL 460 / FL 245	odd FL 450 / FL 250	even FL 430 / FL 260	Class C. Between BPK and 21 NM from BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between 21 NM from BPK and DIGSU: London ACC Freq: 133.940 (All Levels).
△ DIGSU	520126N 0003805E					Westbound route only btn TIPAN and DIGSU. Intersection with N866.
(RNAV 5)	- /220°	95.0 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Between ADGEG and 30 NM before DIGSU: London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355). Between 30 NM before DIGSU and DIGSU: London ACC Freq: 133.940 (All Levels).
△ ADGEG	531343N 0021906E					
(RNAV 5)	- /221°	110.6 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 134.775 (All Levels).
△ TIPAN	543554.13N 0042356.20E					FRA Exit Point. Extremity of UM185.
Route Remarks: LUGIS - DESNA / TIPAN - DIGSU CDR H24. Due to ATC operational requirements, the cruising level allocation between LUGIS and TELTU is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM189						
△ DRAKE	501234N 0000434W					Southbound route only. Tfc should plan to use eastbound levels. Extremity of UM189.
(RNAV 5)	- /212°	11.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ HAWKE	502226.57N 0000524.77E					Intersection with UL612.
(RNAV 5)	- /218°	16.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ WAFFU	503456.89N 0002059.29E					Intersection with UM605 and Y8.
(RNAV 5)	- /218°	32.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between WAFFU and 10 NM from WAFFU: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295). Between 10 NM from WAFFU and LYD: London ACC Freq: 128.430 (All Levels).
△ LYDD DME (LYD)	505958.87N 0005243.18E					Extremity of UM189.
Route Remarks: Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM605						
△ XIDIL	502106.15N 0003829.37E					Eastbound route only btn SILVA and XIDIL. UIR Boundary. For continuation see AIP France.
(RNAV 5)	- /140°	9.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ HARDY	502815.75N 0002928.04E		SFD R140 22.4 NM 289 FT			
(RNAV 5)	- /140°	8.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ WAFFU	503456.89N 0002059.29E					
(RNAV 5)	- /140°	13.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ SEAFORD VOR/DME (SFD)	504538.48N 0000718.89E					
(RNAV 5)	- /137°	56.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between WOD and abm MID: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305). Between abm MID and SFD: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ WOODLEY NDB (WOD)	512710.02N 0005243.68W					Intersection with UL612.
(RNAV 5)	- /168°	7.7 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ BENSU	513444.26N 0005508.45W					Intersection with Q70.
(RNAV 5)	- /168°	16.5 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ SILVA	515051.34N 0010019.40W					Intersection with Q41.
(RNAV 5)	348°/168°	9.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ FINMA	515947.21N 0010313.34W		DTY R168 11.3 NM 600 FT			Intersection with L15.
(RNAV 5)	348°/168°	11.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Extremity of UM605. Intersection with UY53 and UY250.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UM733						
△ SUBIP	502644N 0005306E					Northbound route only. UIR Boundary. For continuation see AIP France.
(RNAV 5)	319°/ -	7.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 128.430 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ BANVA	503242N 0004512E					
(RNAV 5)	319°/ -	19.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 128.430 (All Levels).
△ UNDUG	504723.71N 0002530.03E		MAY R138 18.0 NM 384 FT			
(RNAV 5)	319°/ -	18.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 128.430 (All Levels).
△ MAYFIELD DME (MAY)	510101.86N 0000658.04E					Extremity of UM733.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
UM868						
△ TRENT DME (TNT)	530314.23N 0014011.90W					Eastbound route only. Extremity of UM868.
(RNAV 5)	340°/ -	7.2 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
← △ TIPIL	531000.00N 0014423.13W					
(RNAV 5)	014°/ -	11.8 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
← △ EVSON	532127N 0013949W					
(RNAV 5)	042°/ -	6.8 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
← △ ADELU	532630.48N 0013212.64W					Extremity of UM868. Intersection with L60.
Route Remarks: Due to ATC operational requirements, the cruising level allocation between TNT and TIPIL is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UN6						
△ PILIP	502003.05N 0010026.13W					Eastbound route only. Extremity of UN6.
(RNAV 1)	018°/ -	17.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).
△ TIGGY	503700.54N 0005130.10W					
(RNAV 1)	018°/ -	12.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (All Levels).
△ TELTU	504839.92N 0004517.69W					Extremity of UN6. Intersection with UM185.
Route Remarks: CDR H24. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UN57						
△ SANDY	510350.81N 0010403.13E		DET R128 22.9 NM 645 FT			Westbound (northbound) route only btn SANDY and POL. Extremity of UN57.
(RNAV 5)	315°/ -	49.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between SANDY and abm DET: London ACC Freq: 135.325 (FL 275 and above); Freq: 134.905 (Below FL 275). Between abm DET and LAM: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305).
△ LAMBOURNE DME (LAM)	513845.69N 0000906.13E					
(RNAV 5)	314°/ -	51.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between LAM and abm BPK: London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305). Between abm BPK and WELIN: London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ WELIN	521450.25N 0005108.41W		HON R101 30.6 NM 435 FT			
(RNAV 5)	313°/ -	25.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ SAPCO	523225N 0012125W		HON R045 15.8 NM 435 FT			
(RNAV 5)	340°/ -	32.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ TRENT DME (TNT)	530314.23N 0014011.90W					Intersection with UL28.
(RNAV 5)	340°/ -	44.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Not available for flight planning btn DCS and POL.
(RNAV 5)	- /144°	10.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BAMEP	535242N 0021609W					
(RNAV 5)	- /144°	10.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ SETEL	540044.64N 0022608.71W		POL R323 20.0 NM 1438 FT			
(RNAV 5)	- /144°	6.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ OLPOP	540532N 0023208W					
(RNAV 5)	- /144°	10.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ IPNOX	541340N 0024222W					
(RNAV 5)	- /144°	37.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 129.225 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					Eastbound route only between DCS and EMGAT. Intersection with UL612 and UN864.
(RNAV 5)	- /120°	55.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 129.225 (All Levels).
△ EMGAT	550947.37N 0044511.90W					FRA Exit Point. Extremity of UN57.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UN590						
△ HALIF	534406.31N 0013450.10W					Westbound route only. Extremity of UN590.
(RNAV 5)	325°/ -	56.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between HALIF and abm RIBEL: London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285). Between abm RIBEL and APPLE: Scottish ACC Freq: 135.530 (All Levels).
△ APPLE	543000.00N 0023050.23W					
(RNAV 5)	325°/ -	15.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ ABEVI	544227.00N 0024629.24W					Intersection with N601 and UN601.
(RNAV 5)	322°/ -	63.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ LORTA	553145.72N 0035630.83W					FRA Entry Point. Extremity of UN590.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UN601						
△ SANDY	510350.81N 0010403.13E		DET R128 22.9 NM 645 FT			Westbound route only. Extremity of UN601.
(RNAV 5)	308°/ -	22.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.605 (Below FL 305 to FL 275); Freq: 134.905 (Below FL 275).
△ DETLING DME (DET)	511814.41N 0003550.19E					
(RNAV 5)	315°/ -	37.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.430 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ BROOKMANS PARK DME (BPK)	514459.05N 0000624.25W					
(RNAV 5)	329°/ -	23.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ POTON	520504.32N 0002537.78W					
(RNAV 5)	329°/ -	9.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ BEDFO	521330.00N 0003347.81W					
(RNAV 5)	329°/ -	9.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ EBOTO	522133.30N 0004139.63W					
(RNAV 5)	329°/ -	17.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ PIPIN	523636.06N 0005630.04W					
(RNAV 5)	329°/ -	9.2 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295)
△ LESTA	524427.09N 0010419.42W					Intersection with UP6 and UY250.
(RNAV 5)	329°/ -	15.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ EMBOR	525748.00N 0011745.25W					
(RNAV 5)	329°/ -	23.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ XAPOS	531728.59N 0013751.25W					
(RNAV 5)	328°/ -	12.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BOLBI	532759.75N 0014845.07W					
(RNAV 5)	328°/ -	9.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ ULSAX	533554N 0015700W					
(RNAV 5)	328°/ -	10.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Intersection with UP18.
(RNAV 5)	338°/ -	7.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ NELSA	535148.00N 0021105.27W					
(RNAV 5)	338°/ -	9.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ RIBEL	540058.00N 0021722.76W					
(RNAV 5)	338°/ -	9.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ ERGAB	540922N 0022312W					
(RNAV 5)	338°/ -	22.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ SHAPP	543000.00N 0023738.33W					
(RNAV 5)	338°/ -	13.5 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ ABEVI	544227.00N 0024629.24W					Intersection with N601 and UN590.
(RNAV 5)	338°/ -	11.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ INPIP	545235.54N 0025346.10W					
(RNAV 5)	338°/ -	16.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ UTOGU	550740N 0030443W					
(RNAV 5)	338°/ -	1.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ INREV	550857.44N 0030539.46W					
(RNAV 5)	338°/ -	9.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ ESKDO	551756.00N 0031215.26W					
(RNAV 5)	338°/ -	5.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).
△ IPDOR	552239N 0031545W					
(RNAV 5)	338°/ -	7.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Scottish ACC Freq: 135.530 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					FRA Entry Point. Extremity of UN601. Intersection with N601 and N864.
Route Remarks: Two areas of controlled airspace Class C are part of UN601: (FL 245 - FL 460) 524757N 0004834W - 524523N 0005538W - 532003N 0013042W - 532109N 0012904W - 532012N 0011840W - 531755N 0010606W - 530016N 0010043W - 524757N 0004834W. (FL 245 - FL 460) 522632N 0003702W - 522630N 0002732W - 524757N 0004834W - 524523N 0005538W - 522632N 0003702W. Available H24. The area of airspace bounded by straight lines joining: 552700N 0030000W - 535342N 0020655W - 552358N 0031101W - 552700N 0030000W, is part of UN601.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UN859						
△ SITET	500600N 0000000E					Eastbound (southbound) route only btn CPT and SITET. UIR Boundary. For continuation see AIP France.
(RNAV 5)	- /147°	53.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ GOODWOOD DME (GWC)	505118.79N 0004524.25W					
(RNAV 5)	- /155°	26.3 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between GWC and abm MID: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295). Between abm MID and VAPID: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ VAPID	511513.97N 0010242.40W					
(RNAV 5)	- /155°	9.4 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ALHAD	512346.75N 0010858.16W					
(RNAV 5)	- /155°	6.3 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ COMPTON VOR/DME (CPT)	512929.66N 0011310.89W					Intersection with Y321.
(RNAV 5)	342°/162°	10.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ DIGUT	513901.29N 0011759.47W					
(RNAV 5)	342°/162°	7.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ KIDLI	514617.00N 0012140.87W		CPT R342 17.6 NM 498 FT			Intersection with L151.
(RNAV 5)	342°/162°	36.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Manchester TMA deps that FPL a cruising level at FL 310 or above, will be required to achieve FL 310 level 5 NM before KIDLI. Between KIDLI and abm NEDEX: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305). Between abm NEDEX and HON: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ HONILEY VOR/DME (HON)	522124.04N 0013949.41W					Eastbound (southbound) route only btn SANBA and HON. Intersection with L10, L15, P155 and UL612.
(RNAV 5)	- /153°	44.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.390 (All Levels) for traffic via UL612 and UN859 after HON. Freq: 129.205 (All Levels) for traffic via L10, L15 and P155 after HON.
△ UTUXA	530030.45N 0021312.52W					
(RNAV 5)	- /153°	8.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ SANBA	530821.53N 0022002.98W		HON R332 53.0 NM 435 FT			Extremity of UN859.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UN864						
△ MONTY	525334.00N 0031026.44W		WAL R183 30.0 NM 55 FT			FRA Exit Point. Northbound route only btn MONTY and WAL. Extremity of UN864.
(RNAV 5)	003°/ -	5.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ GODPA	525900N 0031001W					
(RNAV 5)	003°/ -	5.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ REXAM	530400.00N 0030937.21W		WAL R183 19.6 NM 55 FT			
(RNAV 5)	003°/ -	3.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ IVLOD	530746N 0030919W					
(RNAV 5)	003°/ -	15.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Intersection with L10, L151 and N862.
(RNAV 5)	356°/176°	12.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ GUNTU	533537.40N 0030953.64W					
(RNAV 5)	356°/176°	8.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ BILVO	534352.26N 0031108.89W					Southbound route only btn TLA and BILVO. Intersection with UP6.
(RNAV 5)	- /176°	39.2 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Between SUBUK and 5415N: Scottish ACC Freq: 135.530 (All Levels). Between 5415N and BILVO: London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ SUBUK	542247.81N 0031710.85W					
(RNAV 5)	- /176°	20.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (All Levels).
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					Intersection with UL612.
(RNAV 5)	- /181°	20.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (All Levels).
△ ASRUS	550321N 0032045W					
(RNAV 5)	- /181°	17.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (All Levels).
△ UNURO	552111N 0032102W					
(RNAV 5)	- /181°	8.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (All Levels).
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					FRA Exit Point. Extremity of UN864.

Route Remarks:
This route to be flown on a limited basis only - Availability of UN864 btn DCS - WAL may be subject to MoD requirements at certain times – such requirements will normally be of short duration and will be announced by London ACC or Scottish ACC as appropriate. The alternative route will be 'as directed by ATC'.
Due to ATC operational requirements, the cruising level allocation between MONTY and WAL and between TLA and DCS is inappropriate to the MAG Track.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UN867						
△ GARMI	500000.00N 0012249.59W					Eastbound route only. UIR Boundary. For continuation see AIP France.
(RNAV 1)	009°/ -	30.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ VASUX	503009.23N 0011516.99W					
(RNAV 1)	032°/ -	22.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ AVANT	504912.00N 0005618.05W		GWC R252 7.2 NM 122 FT			Extremity of UN867.
Route Remarks: GARMI - VASUX CDR H24. Rest of UN867 - PERM. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UP6						
△ MOGLI	521830.00N 0001608.63W					Westbound route only. Extremity of UP6.
(RNAV 5)	311°/ -	39.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ LESTA	524427.09N 0010419.42W					Intersection with UN601.
(RNAV 5)	316°/ -	28.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ TUMTI	530439.54N 0013615.16W					
(RNAV 5)	316°/ -	13.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ RODOL	531417N 0015143W					Intersection with UL28.
(RNAV 5)	303°/ -	37.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ KOLID	533425.70N 0024520.23W					Intersection with UL70.
(RNAV 5)	302°/ -	18.0 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BILVO	534352.26N 0031108.89W					
(RNAV 5)	302°/ -	12.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ TUPEM	535016.57N 0032854.85W					FRA Entry Point. Extremity of UP6.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
UP16						
△ MONTY	525334.00N 0031026.44W		WAL R183 30.0 NM 55 FT			FRA Exit Point. Northbound route only btn MONTY and NOKIN. Extremity of UP16.
(RNAV 5)	044°/ -	15.3 NM	FL 460 / FL 275	even FL 430 / FL 280		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ NOKIN	530436.00N 0025258.25W					Intersection with N862 and UP17.
(RNAV 5)	021°/201°	23.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ ASMIM	532645.75N 0023910.71W		WAL R079 17.6 NM 55 FT			
(RNAV 5)	021°/201°	11.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ CROFT	533736.89N 0023219.85W		WAL R056 25.6 NM 55 FT			Intersection with Y70 and UL612.
(RNAV 5)	021°/201°	25.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ RIBEL	540058.00N 0021722.76W					Southbound route only btn ROBEM and RIBEL. Intersection with UN601.
(RNAV 5)	- /216°	10.4 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BEGAM	540924.84N 0020715.43W					
(RNAV 5)	- /191°	24.8 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BINTI	543344.74N 0015944.93W					
(RNAV 5)	- /191°	22.0 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 126.930 (All Levels).
△ RAPUM	545518.28N 0015258.08W					
(RNAV 5)	- /223°	9.5 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 126.930 (All Levels).
△ NATEB	550218.41N 0014154.13W					Intersection with UP18.
(RNAV 5)	- /223°	34.4 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. Scottish ACC Freq: 126.930 (All Levels).
△ ROBEM	552733.36N 0010113.69W					FRA Exit Point. Extremity of UP16.

Route Remarks:
NATEB - ROBEM CDR H24.
Rest of UP16 - PERM.

Due to ATC operational requirements, the cruising level allocation between MONTY and BEGAM is inappropriate to the MAG Track.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UP17						
△ NOKIN	530436.00N 0025258.25W					Extremity of UP17. Intersection with N862.
(RNAV 5)	035°/215°	12.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ KUXEM	531511.07N 0024046.76W		MCT R247 16.3 NM 280 FT			
(RNAV 5)	035°/215°	15.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ BARTN	532814.17N 0022541.11W		POL R215 20.1 NM 1438 FT			Northbound route only btn BARTN and DIGBI.
(RNAV 5)	036°/ -	20.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Intersection with UN601 and UP18.
(RNAV 5)	015°/ -	21.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ IPSIR	540454N 0015657W					
(RNAV 5)	015°/ -	5.9 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ OBOXA	541035.55N 0015420.13W					
(RNAV 5)	016°/ -	22.3 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ ARSAT	543206.19N 0014418.63W					
(RNAV 5)	016°/ -	16.7 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 126.930 (FL 285 and above); Freq: 133.800 (Below FL 285).
△ TIPTA	544812.54N 0013641.03W					Intersection with UM82.
(RNAV 5)	040°/ -	30.0 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ DIGBI	551105.57N 0010301.45W					Extremity of UP17. Intersection with P15.
Route Remarks: TIPTA - DIGBI CDR H24. Rest of UP17 - PERM. Due to ATC operational requirements, the cruising level allocation between NOKIN and POL is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UP18						
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Extremity of UP18.
(RNAV 5)	011°/191°	21.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ IDKOL	540543N 0015945W					
(RNAV 5)	011°/191°	3.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ ABKAT	540853.12N 0015846.69W					
(RNAV 5)	011°/191°	4.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ GASKO	541328.97N 0015721.30W		POL R010 29.4 NM 1438 FT			Intersection with UY250.
(RNAV 5)	011°/191°	11.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ UVAVU	542500.07N 0015345.95W					
(RNAV 5)	011°/191°	8.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.930 (FL 285 and above); Freq: 133.800 (Below FL 285).
△ TILNI	543251.41N 0015117.89W		POL R010 49.1 NM 1438 FT			
(RNAV 5)	011°/191°	10.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ GIRLI	544240.51N 0014811.49W					
(RNAV 5)	011°/191°	12.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ UNTAL	545435.20N 0014423.27W					Intersection with N110.
(RNAV 5)	011°/191°	7.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC freq: 126.930 (FL255 and above); Freq: 124.500 (Below FL255).
△ NATEB	550218.41N 0014154.13W					Intersection with L602 and P15.
(RNAV 5)	011°/191°	4.7 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ ELMUD	550656N 0014024W					
(RNAV 5)	011°/191°	20.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ ALASO	552650.23N 0013353.69W					FRA Entry/Exit Point. Extremity of UP18.

Route Remarks:
NATEB - ALASO CDR H24.
Rest of UP18 - PERM.

Due to operational requirements, cruising levels are inappropriate to the MAG TR btn POL and ALASO.

Btn POL and ALASO only avbl for EGPD arrivals when UK Flight Information Services below FL 245 are avbl on request from Swanwick Military or during hours of availability of P18.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UP59						
△ RENEQ	541424.84N 0041759.87E					UIR Boundary. Extremity of UP59.
(RNAV 5)	317°/137°	57.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ ASKAM	545747.34N 0031349.91E					Intersection with L7.
(RNAV 5)	294°/114°	16.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq: 121.325 (All Levels).
△ NOBDO	550453.28N 0024747.63E					Intersection with N44.
(RNAV 5)	294°/113°	47.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Scottish ACC Freq:121.325 (All Levels).
△ OTLAB	552436.05N 0013245.59E					FRA Entry/Exit Point. Extremity of UP59.
Route Remarks: RENEQ - ASKAM / NOBDO - OTLAB CDR H24. Rest of UP59 - PERM.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UP83						
△ BOLRO	500000.00N 0014129.43W					Eastbound route only. UIR Boundary. Extremity of UP83.
(RNAV 5)	024°/ -	34.2 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.830 (All Levels).
△ KATHY	503113.59N 0012000.23W		SAM R178 26.1 NM 64 FT			Intersection with L980.
(RNAV 5)	359°/ -	8.6 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.830 (All Levels).
△ ELDER	503948.10N 0012013.93W		SAM R178 17.5 NM 64 FT			
(RNAV 5)	359°/ -	17.5 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.830 (All Levels).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Extremity of UP83. Intersection with Q41.
Route Remarks: BOLRO - KATHY CDR H24. Rest of UP83 - PERM. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UP87						
△ BOLRO	500000.00N 0014129.43W					Eastbound route only. UIR Boundary. For continuation see AIP France.
(RNAV 1)	017°/ -	16.7 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ ROXOG	501558.29N 0013344.41W					Extremity of UP87. Intersection with L982.
Route Remarks: CDR H24. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UP88						
△ ODREP	500000.00N 0013007.46W					Eastbound route only. UIR Boundary. Extremity of UP88.
(RNAV 1)	017°/ -	15.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ GOKTU	501504.87N 0012244.57W					
(RNAV 1)	017°/ -	15.8 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345).
△ VASUX	503009.23N 0011516.99W					Extremity of UP88. Intersection with L982.
Route Remarks: CDR H24. Due to ATC operational requirements, the cruising level allocation is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UQ4						
△ TRENT DME (TNT)	530314.23N 0014011.90W					Westbound route only btn TNT and LISTO. Extremity of UQ4.
(RNAV 5)	286°/ -	19.9 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Scottish ACC Freq: 118.780 (Below FL 285).
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			
(RNAV 5)	297°/117°	21.6 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Scottish ACC Freq: 118.780 (Below FL 285).
△ VABKA	531808.31N 0024410.02W					Intersection with UL8.
(RNAV 5)	291°/111°	15.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Scottish ACC Freq: 118.780 (Below FL 285).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Eastbound route only btn GIGTO and WAL.
(RNAV 5)	- /114°	11.7 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Scottish ACC Freq: 133.050 (Below FL 285).
△ NOMSU	532806.04N 0032603.79W					
(RNAV 5)	- /114°	25.7 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285); Scottish ACC Freq: 133.050 (Below FL 285).
△ GIGTO	533801.06N 0040550.62W					Extremity of UQ4.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UT29						
△ LAMIX	531828.66N 0004055.52W		POL R116 57.2 NM 1438 FT			Eastbound route only. Extremity of UT29.
(RNAV 5)	065°/ -	13.1 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ VEGUS	532400.54N 0002110.76W					
(RNAV 5)	064°/ -	17.7 NM	FL 460 / FL 245	odd FL 450 / FL 250		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ LIBSO	533129.33N 0000536.32E					Extremity of UT29. Intersection with UL975.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UT71						
△ VAPID	511513.97N 0010242.40W					Eastbound route only. Extremity of UT71. Intersection with UN859.
(RNAV 5)	- /178°	5.8 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ TEVSI	512100.75N 0010301.26W					
(RNAV 5)	- /178°	16.0 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305).
△ COWLY	513657.58N 0010353.72W					Extremity of UT71.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UT256						
△ DEAN CROSS DME (DCS)	544318.88N 0032026.30W					Eastbound route only. Extremity of UT256. Intersection with UL612, UN57 and UN864.
(RNAV 5)	- /135°	19.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (FL 255 and above); Freq: 124.825 (Below FL 255).
△ RIPNO	545632N 0034415W					
(RNAV 5)	- /135°	17.3 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (FL 255 and above); Freq: 124.825 (Below FL 255).
△ OSMEG	550826N 0040603W					
(RNAV 5)	- /141°	19.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. Scottish ACC Freq: 135.530 (FL 255 and above); Freq: 124.825 (Below FL 255).
△ ROVLA	552338.18N 0042824.96W					FRA Exit Point. Extremity of UT256.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UY47						
△ DRAKE	501234N 0000434W					Southbound route only. Extremity of UY47. Intersection with L151.
(RNAV 5)	- /192°	14.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ BENBO	502704.76N 0000036.71E					Intersection with UL612.
(RNAV 5)	- /192°	19.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295).
△ SEAFORD VOR/DME (SFD)	504538.48N 0000718.89E					Extremity of UY47.
Route Remarks: Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
UY53						
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Extremity of UY53. Intersection with L10, P166 and UM605.
(RNAV 5)	338°/157°	23.4 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 127.880 (FL 295 and above); Freq: 127.105 (Below FL 295).
△ SAPCO	523225N 0012125W		HON R045 15.8 NM 435 FT			Extremity of partition of UY53.
(RNAV)						ROUTE BREAK - THIS ATS ROUTE IS NOT CONTINUOUS.
△ NUGRA	530146.43N 0021813.52W		WAL R126 37.0 NM 55 FT			Extremity of partition of UY53. Eastbound route only btn EKLAD and NUGRA.
(RNAV 5)	- /125°	11.5 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ NANTI	530814.54N 0023400.51W		WAL R127 25.5 NM 55 FT			
(RNAV 5)	- /128°	3.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ MOGTA	531008N 0023810W					
(RNAV 5)	- /127°	8.5 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ EKLAD	531513.70N 0024928.85W		WAL R127 13.9 NM 55 FT			
(RNAV 5)	307°/127°	13.9 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Extremity of UY53. Intersection with L10.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
UY124						
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			Eastbound route only. Extremity of UY124.
(RNAV 5)	- /096°	15.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ MOGTA	531008N 0023810W					Intersection with UY53.
(RNAV 5)	- /095°	20.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ AMPIT	531139.41N 0031132.59W					Intersection with L15.
(RNAV 5)	- /095°	15.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ DOLOP	531250.90N 0033750.73W					
(RNAV 5)	- /095°	12.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ BAGIT	531344.63N 0035918.18W					
(RNAV 5)	- /094°	27.1 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ LUTIP	531521.89N 0044415.59W					
(RNAV 5)	- /095°	15.9 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ LOMVO	531615.87N 0051045.82W					
(RNAV 5)	- /094°	11.6 NM	FL 460 / FL 245		odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ DEXEN	531649N 0053000W					UIR Boundary. Extremity of UY124.
Route Remarks: CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
UY250						
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Northbound route only btn DTY and MAMUL. Extremity of UY250.
(RNAV 5)	002°/ -	18.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 285 and above); Freq: 127.105 (Below FL 285).
△ AKUPA	522911.57N 0010528.03W					Intersection with T420.
(RNAV 5)	003°/ -	15.3 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 127.880 (FL 285 and above); Freq: 127.105 (Below FL 285).
△ LESTA	524427.09N 0010419.42W					Intersection with UN601.
(RNAV 5)	350°/ -	41.4 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. Between LESTA and 15 NM from MAMUL: London ACC Freq: 127.880 (FL 285 and above); Freq: 127.105 (Below FL 285). Between 15 NM from MAMUL and MAMUL: London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ MAMUL	532505.20N 0011648.45W					Intersection with L603.
(RNAV 5)	356°/176°	10.2 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ UPTON	533513.00N 0011802.58W		POL R107 30.2 NM 1438 FT			
(RNAV 5)	329°/149°	4.1 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ BATLI	533845.07N 0012136.90W					
(RNAV 5)	329°/149°	5.0 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ RIMTO	534303.25N 0012558.78W					
(RNAV 5)	329°/149°	32.3 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ OBOXA	541035.55N 0015420.13W					Intersection with UP17.
(RNAV 5)	329°/149°	3.4 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285); Scottish ACC Freq: 133.800 (Below FL 285).
△ GASKO	541328.97N 0015721.30W		POL R010 29.4 NM 1438 FT			Extremity of UY250. Intersection with UP18.
Route Remarks: Due to ATC operational requirements, the cruising level allocation between DTY and LESTA is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y4						
△ TEBRA	512920.30N 0013643.00E					Westbound route only. Extremity of Y4.
(RNAV 5)	- /227°	8.5 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 129.605 (Below FL 245 to FL 125); Freq: 135.425 (Below FL 125).
△ PIBUX	513458.88N 0014657.42E					
(RNAV 5)	- /227°	2.6 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ ARREK	513643.04N 0015007.27E					
(RNAV 5)	- /228°	3.8 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ ODROB	513915.11N 0015445.17E					
(RNAV 5)	- /205°	30.2 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between SONOG and 11 NM from SONOG: London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215). Between 11 NM from SONOG and ODROB: London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ SONOG	520619.71N 0021610.08E					Extremity of Y4.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y6						
△ SUMUM	513814.25N 0020627.77E					Westbound route only. FIR/UIR Boundary. Extremity of Y6.
(RNAV 5)	331°/ -	2.7 NM	FL 460 / FL 105	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ TOSVA	514037.40N 0020426.34E					
(RNAV 5)	331°/ -	15.0 NM	FL 460 / FL 105	even FL 430 / FL 120		FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215).
△ IDESI	515351.74N 0015308.08E					Intersection with P49.
(RNAV 5)	331°/ -	29.8 NM	FL 460 / FL 165	even FL 430 / FL 180		FL 460/FL 195 Class C, FL 195/FL 165 Class A. Between IDESI and 10 NM north of IDESI: London ACC Freq: 128.160 (FL 245 and above); Freq: 118.480 (Below FL 245 to FL 215); Freq: 135.425 (Below FL 215). Between 10 NM north of IDESI and BANEM: London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ BANEM	522008.11N 0013019.26E					Extremity of Y6.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y8						
△ KUNAV	503054N 0010356E					Westbound route only btn KUNAV and WAFFU. FIR Boundary. Extremity of Y8.
(RNAV 5)	098°/ -	12.1 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 128.430 (FL 145 and above); Freq: 134.125 (Below FL 145).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ BANVA	503242N 0004512E					
(RNAV 5)	097°/ -	15.6 NM	FL 460 / FL 95	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between BANVA and 10 NM east of WAFFU: London ACC Freq: 128.430 (FL 145 and above); Freq: 134.125 (Below FL 145). Between 10 NM east of WAFFU and WAFFU: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295 to FL 175); Freq: 134.125 (Below FL 175).
△ WAFFU	503456.89N 0002059.29E					
(RNAV 5)	110°/291°	45.3 NM	FL 460 / FL 95	even FL 430 / FL 100	odd FL 230 / FL 110	FL 460/FL 195 Class C, FL 195/FL 95 Class A. Between GWC and 5 NM east of GWC: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 255); Freq: 134.440 (Below FL 255 to FL 175); Freq: 134.125 (Below FL 175). Between 5 NM east of GWC and 20 NM east of GWC: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295 to FL 175); Freq: 134.125 (Below FL 175). Between 20 NM east of GWC and WAFFU: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295 to FL 175); Freq: 134.125 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ GOODWOOD DME (GWC)	505118.79N 0004524.25W					
(RNAV 5)	105°/285°	23.1 NM	FL 460 / FL 75	even FL 430 / FL 80	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. Between SAM and 8 NM west of GWC: London ACC Freq: 132.840 (FL 305 and above); Freq: 134.440 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 134.125 (Below FL 175). Between 8 NM west of GWC and GWC: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 255); Freq: 134.440 (Below FL 255 to FL 175); Freq: 134.125 (Below FL 175).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Extremity of Y8. Intersection with L620, M140 and N19.
Route Remarks: See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y47						
△ DRAKE	501234N 0000434W					Southbound route only. Extremity of Y47.
(RNAV 5)	- /192°	14.9 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 135.055 (All Levels).
△ BENBO	502704.76N 0000036.71E					Intersection with L612.
(RNAV 5)	- /192°	19.1 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).
△ SEAFORD VOR/DME (SFD)	504538.48N 0000718.89E					
(RNAV 5)	- /179°	15.4 NM	FL 245 / FL 75		odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ MAYFIELD DME (MAY)	510101.86N 0000658.04E					Extremity of Y47.
Route Remarks: Due to ATC operational requirements, the cruising level allocation for the entire route is inappropriate to the MAG Track.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
Y53						
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Extremity of Y53. Intersection with L10, L608, M605 and P166.
(RNAV 5)	338°/157°	23.4 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 127.105 (FL 195 and above); Freq: 130.925 (Below FL 195).
△ SAPCO	523225N 0012125W		HON R045 15.8 NM 435 FT			Intersection with N57.
(RNAV 5)	313°/133°	18.1 NM	FL 245 / FL 75	even FL 240 / FL 80	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 75 Class A. For flight planning purposes the portion of AWY Y53 btn SAPCO and PEDIG is for westbound flights only which are unable to route on AWY N601, exceptionally ATC may clear tfc eastbound. London ACC Freq: 127.105 (Above FL 195); Freq: 130.925 (FL 195 and below).
△ PEDIG	524447.59N 0014309.97W		WAL R127 64.2 NM 55 FT			
(RNAV 5)	309°/129°	27.2 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.390 (Above FL 195); Scottish ACC Freq: 134.430 (FL 195 and below).
△ NUGRA	530146.43N 0021813.52W		WAL R126 37.0 NM 55 FT			
(RNAV 5)	305°/125°	11.5 NM	FL 245 / FL 65	even FL 240 / FL 80	odd FL 230 / FL 70	FL 245/FL 195 Class C, FL 195/FL 65 Class A. London ACC Freq: 134.390 (Above FL 195); Scottish ACC Freq: 134.430 (FL 195 and below).
△ NANTI	530814.54N 0023400.51W		WAL R127 25.5 NM 55 FT			
(RNAV 5)	308°/128°	3.1 NM	FL 245 / 3500 FT ALT	even FL 240 / FL 60	odd FL 230 / 5000 FT ALT	FL 245/FL 195 Class C, FL 195/Alt 3500 FT Class A. Scottish ACC Freq: 118.780 (Above FL 195); Freq: 128.055 (FL 195 and below).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ MOGTA	531008N 0023810W					
(RNAV 5)	307°/127°	8.5 NM	FL 245 / 3500 FT ALT	even FL 240 / FL 60	odd FL 230 / 5000 FT ALT	FL 245/FL 195 Class C, FL 195/Alt 3500 FT Class A. Scottish ACC Freq: 118.780 (Above FL 195); Freq: 128.055 (FL 195 and below).
△ EKLAD	531513.70N 0024928.85W		WAL R127 13.9 NM 55 FT			
(RNAV 5)	307°/127°	13.9 NM	FL 245 / 3500 FT ALT	even FL 240 / FL 60	odd FL 230 / 5000 FT ALT	FL 245/FL 195 Class C, FL 195/Alt 3500 FT Class A. Scottish ACC Freq: 118.780 (Above FL 195); Freq: 128.055 (FL 195 and below).
△ WALLASEY VOR/DME (WAL)	532330.97N 0030804.06W					Intersection with L10 and M146. Extremity of Y53.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y70						
△ RAVLO	525501.21N 0030853.81E					Westbound route only btn RAVLO and BODSO. UIR Boundary. For continuation see AIP Netherlands.
(RNAV 5)	281°/ -	39.1 NM	FL 460 / FL 245	even FL 430 / FL 260		Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ BODSO	530308.25N 0020540.71E					Westbound route only FL 245 and above and bi-directional below FL 245 btn BODSO and GOLES. Intersection with L17.
(RNAV 5)	280°/100°	55.3 NM	FL 460 / FL 175	even FL 430 / FL 180	odd FL 230 / FL 190	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ SUPEL	531340.27N 0003528.02E					
(RNAV 5)	280°/100°	6.0 NM	FL 460 / FL 175	even FL 430 / FL 180	odd FL 230 / FL 190	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ ABTOS	531444.92N 0002536.29E					Intersection with N110.
(RNAV 5)	280°/100°	14.5 NM	FL 460 / FL 175	even FL 430 / FL 180	odd FL 230 / FL 190	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ OTBED	531716.71N 0000154.61E					The base level change at OTBED is coincident with the western boundary of North Sea CTA 1. Intersection with L60.
(RNAV 5)	296°/116°	15.4 NM	FL 460 / FL 155	even FL 430 / FL 160	odd FL 230 / FL 170	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ VEGUS	532400.54N 0002110.76W					
(RNAV 5)	296°/115°	9.0 NM	FL 460 / FL 125	even FL 430 / FL 140	odd FL 230 / FL 130	FL 460/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ SIVBU	532755N 0003444W					
(RNAV 5)	295°/115°	8.4 NM	FL 460 / FL 105	even FL 430 / FL 120	odd FL 230 / FL 110	FL 460/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ GIPLO	533131N 0004723W					Base level change point is not at right angles to the CL of Y70 and extends between 533619N 0004448W and 532643N 0004958W.
(RNAV 5)	295°/115°	11.6 NM	FL 460 / FL 85	even FL 430 / FL 100	odd FL 230 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285).
△ GOLES	533629.08N 0010500.37W		POL R102 37.3 NM 1438 FT			Westbound route only btn GOLES and KOLID. Intersection with (U)L975.
(RNAV 5)	283°/ -	10.1 NM	FL 460 / FL 85	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285 to FL 135). Freq: 135.715 (FL 135 and below).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BATLI	533845.07N 0012136.90W					Intersection with (U)Y250.
(RNAV 5)	283°/ -	27.1 NM	FL 460 / FL 85	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 133.800 (Below FL 285 to FL 135). Freq: 135.715 (FL 135 and below).
△ POLE HILL VOR/DME (POL)	534437.60N 0020611.83W					Intersection with (U)N601.
(RNAV 5)	246°/ -	17.1 NM	FL 460 / FL 85	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 135.715 (Below FL 195).
△ CROFT	533736.89N 0023219.85W		WAL R056 25.6 NM 55 FT			Intersection with (U)P16.
(RNAV 5)	248°/ -	8.4 NM	FL 460 / FL 85	even FL 430 / FL 100		FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 133.705 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ KOLID	533425.70N 0024520.23W					Extremity of Y70. Intersection with (U)L70.

Route Remarks:
The portion of Y70 between OTBED and BATLI below FL 195 is Class A and extends 5 NM either side of the centre-line.

The portion of airspace formed by joining positions:

L975 Crossing Area

533835N 0013503W - 534007N 0011937W -
534626.98N 0011937.00W - 534308.41N 0011615.09W -
534127.82N 0010357.97W - 533059N 0010932W -
532845N 0013215W - 533835N 0013503W,
from AWY base level to an upper limit of FL 120, occasionally to FL 190 on request;

is notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with the conditions established in the Letter of Agreement (LOA) btn the Derbyshire and Lancashire (Camphill) Gliding Club, British Gliding Association (BGA), Leeds Bradford International Airport, and Scottish ACC.

The area of Y70 bounded by the co-ordinates:
533142N 0010734W - 533119N 0010614W -
533109N 0010751W - 533142N 0010734W, has a lower limit of FL 85.

The area of Y70 bounded by the co-ordinates:
534402N 0012252W - 534134N 0010443W -
534007N 0011937W - 534402N 0012252W, has a lower limit of FL 125.

See also ENR 1.1, paragraph 1.1.3.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y96						
△ RENEQ	541424.84N 0041759.87E					UIR Boundary. Extremity of Y96.
(RNAV 5)	283°/101°	214.5 NM	FL 460 / FL 245	even FL 430 / FL 260	odd FL 450 / FL 250	Class C. Between NATEB and abm BAVDO: Scottish ACC Freq: 126.930 (All Levels). Between abm BAVDO and RENEQ: Scottish ACC Freq: 121.325 (All Levels).
△ NATEB	550218.41N 0014154.13W					Intersection with M981, N97, N601, P15, P18.
(RNAV 5)	301°/121°	10.0 NM	FL 460 / FL 195	even FL 430 / FL 200	odd FL 450 / FL 210	Class C. Scottish ACC Freq: 126.930 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ AGPED	550718.90N 0015657.15W					Intersection with N110.
(RNAV 5)	301°/120°	19.2 NM	FL 460 / FL 195	even FL 430 / FL 200	odd FL 450 / FL 210	Class C. Scottish ACC Freq: 135.855 (FL 255 and above); Freq: 124.500 (Below FL 255).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ OTBUN	551650.10N 0022600.00W					
(RNAV 5)	300°/120°	10.0 NM	FL 460 / FL 155	even FL 430 / FL 160	odd FL 450 / FL 170	FL 460/FL 195 Class C, FL 195/FL 155 Class A. Scottish ACC Freq: 135.855 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ IPSAD	552145N 0024114W					
(RNAV 5)	300°/120°	12.1 NM	FL 460 / FL 115	even FL 430 / FL 120	odd FL 450 / FL 130	FL 460/FL 195 Class C, FL 195/FL 115 Class A. Scottish ACC Freq: 135.855 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ HAVEN	552740.00N 0025946.67W		TLA R101 12.4 NM 2773 FT			FRA Entry Point.
(RNAV 5)	282°/102°	12.4 NM	FL 460 / FL 95	even FL 430 / FL 100	odd FL 450 / FL 110	FL 460/FL 195 Class C, FL 195/FL 95 Class D. Scottish ACC Freq: 135.855 (FL 255 and above); Freq: 124.500 (Below FL 255).
△ TALLA VOR/DME (TLA)	552956.84N 0032110.09W					FRA Entry/Exit Point. Eastbound route only btn NORBO and TLA. Intersection with N601 and N864.
(RNAV 5)	- /098°	48.4 NM	FL 255 / 6000 FT ALT		odd FL 250 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 6000 FT Class D. Scottish ACC Freq: 135.855 (FL 255 and above); Freq: 124.825 (Below FL 255).
△ NORBO	553545.36N 0044543.46W		TRN R003 17.0 NM 586 FT			Extremity of Y96.
Route Remarks: AGPED - IPSAD may not be available due to activity within either EGD512A or EGD512B (Otterburn Danger Areas). RENEQ - NATEB CDR H24						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y110						
△ ORIST	500000N 0015042W					Eastbound route only. FIR/UIR Boundary. Continues as UY110 (see AIP France).
(RNAV 5)	005°/ -	8.4 NM	FL 460 / FL 125	even FL 430 / FL 200 odd FL 190 / FL 130		FL 460/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345 to FL 225); Freq: 129.430 (Below FL 225).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
△ VEXEN	500821.98N 0014934.38W					Intersection with L980.
(RNAV 5)	016°/ -	22.5 NM	FL 460 / FL 105	odd FL 150 / FL 110		FL 460/FL 195 Class C, FL 195/FL 105 Class A. Between VEXEN and 5 NM from VEXEN: London ACC Freq: 134.440 (FL 345 and above); Freq: 127.830 (Below FL 345 to FL 225); Freq: 129.430 (Below FL 225). Between 5 NM from VEXEN and THRED: London ACC Freq: 129.430 (All Levels).
△ THRED	502955.11N 0013950.03W		SAM R203 30.0 NM 64 FT			Extremity of Y110. Intersection with Q41 and Z171.

Route Remarks:
CDR FL 225 and above H24.
Below FL 225 - PERM.

Due to ATC operational requirements, the cruising level allocation above FL 195 between ORIST and VEXEN is inappropriate to the MAG Track.

See also ENR 1.1, paragraph 1.1.3.

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	**↑**	
Y124						
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			Eastbound route only. Available for jet traffic only. Extremity of Y124.
(RNAV 5)	- /096°	15.9 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. Scottish ACC Freq: 118.780 (All Levels).
△ MOGTA	531008N 0023810W					Intersection with Y53.
(RNAV 5)	- /095°	20.1 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. Scottish ACC Freq: 118.780 (All Levels).
△ AMPIT	531139.41N 0031132.59W					Intersection with L15.
(RNAV 5)	- /095°	15.9 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ DOLOP	531250.90N 0033750.73W					
(RNAV 5)	- /095°	12.9 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. Scottish ACC Freq: 133.050 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ BAGIT	531344.63N 0035918.18W					
(RNAV 5)	- /094°	27.1 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. Scottish ACC Freq: 133.050 (All Levels).
△ LUTIP	531521.89N 0044415.59W					
(RNAV 5)	- /095°	15.9 NM	FL 245 / FL 145		odd FL 230 / FL 150	Class C. Between LOMVO and 5 NM west of LUTIP: ATS Delegated to Dublin ACC Freq: 129.180. Between 5 NM west of LUTIP and LUTIP: Scottish ACC Freq: 133.050 (All Levels).
△ LOMVO	531615.87N 0051045.82W					
(RNAV 5)	- /094°	11.6 NM	FL 245 / FL 115		odd FL 230 / FL 130	Class C. ATS delegated to Dublin ACC Freq: 129.180.
△ DEXEN	531649N 0053000W					FIR Boundary. Extremity of Y124.
Route Remarks: CDR H24. See also ENR 1.1, paragraph 1.1.3.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y125						
△ FITBO	521308.55N 0022412.55W					Eastbound route only. Extremity of Y125.
(RNAV 1)	- /136°	24.7 NM	FL 245 / FL 175		odd FL 230 / FL 190	Between RETSI and 522555N 0024446W: FL 245/FL 195 Class C, FL 195/FL 175 Class A. Between 522555N 0024446W and FITBO: Class C. London ACC Freq: 133.600 (All Levels).
△ RETSI	523042.42N 0025232.93W					
(RNAV 1)	- /113°	25.4 NM	FL 245 / FL 195		odd FL 230 / FL 210	Class C. London ACC Freq: 133.600 (All Levels).
△ BERUL	524016.19N 0033112.63W					Extremity of Y125.
Route Remarks: Tactical use only. Not available for flight planning.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
Y250						
△ DAVENTRY DME (DTY)	521048.51N 0010649.64W					Westbound route only btn DTY and MAMUL. Extremity of Y250.
(RNAV 5)	002°/ -	18.4 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 129.205 (Above FL 195); Freq: 130.925 (FL 195 and below).
△ AKUPA	522911.57N 0010528.03W					Intersection with T420.
(RNAV 5)	003°/ -	15.3 NM	FL 245 / FL 105	even FL 240 / FL 120		FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 129.205 (Above FL 195); Freq: 130.925 (FL 195 and below).
△ LESTA	524427.09N 0010419.42W					Intersection with N601.
(RNAV 5)	350°/ -	41.4 NM	FL 245 / FL 195	even FL 240 / FL 200		Class C. London ACC Freq: 129.205 (Above FL 195).
← △ MAMUL	532505.20N 0011648.45W					Intersection with L60 and L603.
(RNAV 5)	356°/176°	10.2 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ UPTON	533513.00N 0011802.58W		POL R107 30.2 NM 1438 FT			
(RNAV 5)	329°/149°	4.1 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ BATLI	533845.07N 0012136.90W					
(RNAV 5)	329°/149°	5.0 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ RIMTO	534303.25N 0012558.78W					
(RNAV 5)	329°/149°	32.3 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ OBOXA	541035.55N 0015420.13W					
(RNAV 5)	329°/149°	3.4 NM	FL 245 / FL 125	even FL 240 / FL 140	odd FL 230 / FL 130	FL 245/FL 195 Class C, FL 195/FL 125 Class A. Scottish ACC Freq: 133.800 (All Levels).
△ GASKO	541328.97N 0015721.30W		POL R010 29.4 NM 1438 FT			Extremity of Y250. Intersection with P18.
Route Remarks: Due to ATC operational requirements, the cruising level allocation between DTY and LESTA is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y311						
△ DOVER DME (DVR)	510945.44N 0012132.71E					Eastbound route only. Extremity of Y311. Intersection with (U)L9, L10, and L18.
(RNAV 5)	- /089°	33.0 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 134.905 (Below FL 305).
△ ODVIK	510957.40N 0002909.33E					Extremity of Y311.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y312						
△ DOVER DME (DVR)	510945.44N 0012132.71E					Eastbound route only. Extremity of Y312. Intersection with (U)L9, L10 and L18.
(RNAV 5)	- /096°	33.0 NM	FL 460 / FL 75		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 75 Class A. London ACC Freq: 127.430 (FL 305 and above); Freq: 134.905 (Below FL 305).
△ MIMFO	511358.23N 0002930.43E		DET R222 5.8 NM 645 FT			Extremity of Y312.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y321						
△ EXARO	510003.26N 0012249.54W					Westbound route only except for specified aerodrome arriving tfc; See DNM RAD Annex EG. Extremity of Y321. Intersection with N514.
(RNAV 1)	- /204°	12.8 NM	FL 460 / FL 195		even FL 430 / FL 200	Class C. London ACC Freq: 132.840 (FL 305 and above); Freq: 129.430 (Below FL 305).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	**Route Usage Notes**					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
△ PEPIS	511147.95N 0011437.22W		SAM R014 15.0 NM 64 FT			Intersection with Q41.
(RNAV 5)	003°/183°	8.5 NM	FL 460 / FL 85	even FL 240 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105).
△ NUBRI	512016.68N 0011355.99W					
(RNAV 5)	003°/183°	9.2 NM	FL 460 / FL 85	even FL 240 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between 5 NM south of CPT and NUBRI: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 105); Freq: 134.125 (Below FL 105). Between CPT and 5 NM south of CPT: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ COMPTON VOR/DME (CPT)	512929.66N 0011310.89W					Intersection with Q63 and UL9.
(RNAV 5)	- /170°	29.6 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between 10 NM north of CPT and CPT: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 129.080 (Below FL 155 to FL 135); Freq: 134.125 (Below FL 135). Between 15 NM north of CPT and 10 NM north of CPT: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 155); Freq: 121.280 (Below FL 155 to FL 125); Freq: 119.780 (Below FL 125). Between EMKUK and 15 NM north of CPT: London ACC Freq: 134.460 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 133.080 (Below FL 215).
△ EMKUK	515837.47N 0012114.72W					Intersection with (U)L612.
(RNAV 5)	- /170°	23.4 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 133.080 (Below FL 225).
△ ADMEX	522139.20N 0012744.81W		HON R087 7.4 NM 435 FT			Extremity of Y321.
Route Remarks: Due to ATC operational requirements, the cruising level allocation between CPT and PEPIS is inappropriate to the MAG Track.						

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y322						
△ BUGUP	515237.17N 0013659.89W					Eastbound route only. Extremity of Y322.
(RNAV 5)	- /157°	25.5 NM	FL 245 / FL 145		odd FL 230 / FL 150	FL 245/FL 195 Class C, FL 195/FL 145 Class A. London ACC Freq: 134.390 (FL 225 and above); Freq: 121.030 (Below FL 225).
△ PEPUL	521603.00N 0015314.37W					Extremity of Y322.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y803						
△ LYDD DME (LYD)	505958.87N 0005243.18E					Extremity of Y803. Intersection with M189.
(RNAV 5)	243°/063°	32.1 NM	FL 245 / FL 85	even FL 240 / FL 100	odd FL 230 / FL 90	FL 245/FL 195 Class C, FL 195/FL 85 Class A. Between LYD and 5 NM from SFD: London ACC Freq: 128.430 (FL 195 and above); Freq: 120.180 (Below FL 195). Between 5 NM from SFD and SFD: London ACC Freq: 135.055 (FL 175 and above); Freq: 133.180 (Below FL 175).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ SEAFORD VOR/DME (SFD)	504538.48N 0000718.89E					Eastbound route only FL 245 and above between MID and SFD.
(RNAV 5)	301°/121°	33.4 NM	FL 460 / FL 85	even FL 240 / FL 100	odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. Between SFD and 9 NM from SFD: London ACC Freq: 132.840 (FL 295 and above); Freq: 135.055 (Below FL 295 to FL 175); Freq: 133.180 (Below FL 175). Between 9 NM from SFD and 26 NM from SFD: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 255); Freq: 135.055 (Below FL 255 to FL 175); Freq: 133.180 (Below FL 175). Between 26 NM from SFD and MID: London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ MIDHURST DME (MID)	510314.23N 0003730.01W					Westbound route only btn MAXIT and MID.
(RNAV 5)	- /191°	12.0 NM	FL 460 / FL 95		even FL 430 / FL 100	FL 460/FL 195 Class C, FL 195/FL 95 Class A. London ACC Freq: 132.840 (FL 305 and above); Freq: 132.165 (Below FL 305 to FL 215); Freq: 135.805 (Below FL 215 to FL 175); Freq: 133.180 (Below FL 175).
△ MAXIT	511459.08N 0003342.83W					Extremity of Y803.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y904						
△ ABERDEEN VOR/DME (ADN)	571837.62N 0021602.09W					Extremity of Y904.
(RNAV 5)	340°/160°	17.0 NM	FL 195 / FL 65	even FL 180 / FL 80	odd FL 190 / FL 70	Class E and TMZ. (See Note) Within the confines of the Aberdeen CTR/CTA, Y904 assumes the airspace classification of the Aberdeen CTR/ CTA. Scottish ACC Freq: 134.850 (All Levels).
△ NANEV	573428.67N 0022713.91W					
(RNAV 5)	340°/160°	13.0 NM	FL 155 / FL 75	even FL 140 / FL 80	odd FL 150 / FL 90	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ SMOKI	574637.00N 0023555.62W					
(RNAV 5)	340°/160°	44.0 NM	FL 155 / FL 75	even FL 140 / FL 80	odd FL 150 / FL 90	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ WICK VOR/DME (WIK)	582731.74N 0030601.34W					Extremity of Y904.
Route Remarks: Transponder carriage and operation required.						

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y905						
△ ABERDEEN VOR/DME (ADN)	571837.62N 0021602.09W					Extremity of Y905.
(RNAV 5)	045°/225°	20.9 NM	FL 195 / FL 65	odd FL 190 / FL 70	even FL 180 / FL 80	Class E and TMZ. (See Note) Within the confines of the Aberdeen CTR/CTA, Y905 assumes the airspace classification of the Aberdeen CTR/ CTA. Scottish ACC Freq: 134.850 (All Levels).
△ PETOX	573333N 0014902W					
(RNAV 5)	007°/187°	3.0 NM	FL 195 / FL 65	odd FL 190 / FL 70	even FL 180 / FL 80	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ RISDU	573631.42N 0014823.78W					
(RNAV 5)	007°/188°	47.0 NM	FL 195 / FL 105	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ MONAV	582306.02N 0013811.02W					
(RNAV 5)	008°/188°	30.4 NM	FL 195 / FL 105	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ BEKET	585313.00N 0013120.14W					
(RNAV 5)	008°/188°	27.1 NM	FL 195 / FL 105	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ ERDOG	592003.14N 0012503.64W					
(RNAV 5)	008°/188°	3.0 NM	FL 195 / FL 75	odd FL 190 / FL 90	even FL 180 / FL 80	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ GAVEL	592300.00N 0012421.67W					
(RNAV 5)	008°/188°	7.0 NM	FL 195 / FL 75	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
△ RAVDI	592957.26N 0012242.18W					
(RNAV 5)	008°/188°	3.0 NM	FL 195 / FL 45	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Scottish ACC Freq: 134.850 (All Levels).
▲ MOCHA	593255.50N 0012159.47W					Acft in communication with Sumburgh ATC must report OHD MOCHA unless otherwise authorized by that Unit.
(RNAV 5)	008°/188°	20.0 NM	FL 195 / FL 45	odd FL 190 / FL 110	even FL 180 / FL 120	Class E and TMZ. (See Note) Within the confines of the Sumburgh CTR/CTA, Y905 assumes the airspace classification of the Sumburgh CTR/ CTA. Scottish ACC Freq: 134.850 (All Levels).
△ WAFIL	595243.00N 0011711.00W					Extremity of Y905.

Route Remarks:
Although coverage of SUM VOR meets ICAO criteria, it is nevertheless deficient along the alignment of Y905 at low level in view of the distance btn SUM and PETOX. During commissioning flight inspection ICAO mnm field strength at FL 70 occurred to 90 NM and it is estimated it would occur above approximately FL 100 overhead PETOX. Therefore in line VOR navigation beyond SUM VOR 50D to PETOX may not comply with RNP 5.

Transponder carriage and operation required.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y906						
△ RIMOL	573233.45N 0040229.55W					Extremity of Y906.
(RNAV 5)	303°/123°	17.1 NM	FL 195 / FL 95	even FL 180 / FL 100	odd FL 190 / FL 110	Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ GARVA	574118.00N 0042941.35W		INS R302 17.1 NM 42 FT			
(RNAV 5)	303°/122°	25.1 NM	FL 195 / FL 95	even FL 180 / FL 100	odd FL 190 / FL 110	Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ ULLAP	575400.00N 0051009.20W					
(RNAV 5)	302°/122°	37.2 NM	FL 195 / FL 55	even FL 180 / FL 60	odd FL 190 / FL 70	Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ STORNOWAY VOR/DME (STN)	581225.02N 0061058.97W					Extremity of Y906.

Route Remarks:
Inverness Radar provide a radar service for tfc inbound to and outbound from Inverness via Y906 during the promulgated hours of Inverness Radar as published in UK AIP AD 2.EGPE AD 2.18 (and as amended by NOTAM).

Tfc inbound to Inverness via Y906 has a clearance limit of GARVA, descent clearance will be issued by Scottish ACC to be level by GARVA unless otherwise instructed by ATC. Scottish ACC will instruct tfc when to contact Inverness Radar (122.605), this will normally be at or before 40 NM from RIMOL.

Transponder carriage and operation required.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y911						
△ BOYNE	534601.59N 0053000.00W					FIR Boundary. Extremity of Y911.
(RNAV 5)	057°/237°	22.2 NM	FL 195 / FL 75	odd FL 190 / FL 90	even FL 180 / FL 80	Between BOYNE and 3.5 NM east of BOYNE: Class C (All Levels). Between 3.5 NM east of BOYNE and 19 NM east of BOYNE: Class E and TMZ (All Levels) - see Note 1. Between 19 NM east of BOYNE and NOCAD: FL 195/FL 145 Class C, FL 145/FL 105 Class E and TMZ - see Note 1, FL 105/FL 75 Class D - see Note 2. Scottish ACC Freq: 123.775 (All Levels).

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△ NOCAD	535836.63N 0045913.06W		IOM R236 9.6 NM 567 FT			
(RNAV 5)	057°/237°	9.6 NM	FL 195 / FL 75	odd FL 190 / FL 90	even FL 180 / FL 80	Between NOCAD and 540100N 0045317W: FL 195/FL 145 Class C, FL 145/FL 105 Class E and TMZ - see Note 1. Between 540100N 0045317W and IOM: FL 195/FL 75 Class D. Scottish ACC Freq: 123.775 (All Levels).
△ ISLE OF MAN VOR/DME (IOM)	540401.12N 0044548.50W					Extremity of Y911.

Route Remarks:
See also ENR 1.1, pargraph 1.1.3.
Note 1: Transponder carriage and operation required.
Note 2: Class D airspace during the published times of the Isle of Man CTR. Outside Isle of Man CTR hours airspace reverts to Class E and TMZ.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Y958						
△ BRUCE	561411.05N 0055028.09W					Extremity of Y958. Intersection with L602.
(RNAV 5)	329°/149°	37.8 NM	FL 255 / FL 115	even FL 240 / FL 120	odd FL 250 / FL 130	FL 255/FL 195 Class C, FL 195/FL 115 Class E and TMZ. (See Note) Scottish ACC Freq: 127.275 (All Levels).
△ TOBMO	564538.16N 0062810.51W					Extremity of Y958.

Route Remarks:
For use by traffic climbing to or descending from the Shanwick OCA Boundary.

The portion of Y958 below FL 195 is Class E and TMZ and extends 5 NM either side of the centre-line.

Note: Transponder carriage and operation required within that part of Y958 notified as Class E and TMZ.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z150						
△ MEGEL	522057.94N 0020425.20E					Westbound route only. Extremity of Z150.
(RNAV 5)	- /220°	13.3 NM	FL 460 / FL 195		even FL 430 / FL 200	Class C. London ACC Freq: 133.940 (FL 215 and above); Freq: 121.230 (Below FL 215).
△ AMFEP	523050.36N 0021851.80E					
(RNAV 5)	- /221°	34.7 NM	FL 460 / FL 245		even FL 430 / FL 260	Class C. London ACC Freq: 126.780 (FL 355 and above); Freq: 128.130 (Below FL 355).
△ KUBAX	525633.93N 0025713.20E					Extremity of Z150.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z171						
△ LELNA	495856.80N 0020623.42W					Westbound route only between THRED and LELNA. FIR Boundary. Extremity of Z171.
(RNAV 1)	- /209°	35.4 NM	FL 245 / FL 105		odd FL 230 / FL 210 even FL 200 / FL 120	FL 245/FL 195 Class C, FL 195/FL 105 Class A. London ACC Freq: 129.430 (All Levels).
△ THRED	502955.11N 0013950.03W		SAM R203 30.0 NM 64 FT			Intersection with Q41.
(RNAV 1)	024°/204°	11.0 NM	FL 245 / FL 125	odd FL 230 / FL 130	even FL 220 / FL 140	FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 129.430 (All Levels).
△ NEDUL	503958.00N 0013251.86W		SAM R203 19.0 NM 64 FT			Intersection with Q41.
(RNAV 1)	024°/204°	19.0 NM	FL 245 / FL 125	odd FL 230 / FL 130	even FL 220 / FL 140	FL 245/FL 195 Class C, FL 195/FL 125 Class A. London ACC Freq: 129.430 (All Levels).
△ SOUTHAMPTON DME (SAM)	505718.90N 0012042.20W					Extremity of Z171. Intersection with Q41.

Route Remarks:
Due to Brest ACC operational requirements, the cruising level allocation between THRED and LELNA above FL 200 is inappropriate to the MAG Track.

See also ENR 1.1, paragraph 1.1.3.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z195						
△ ALAVA	532342.60N 0035817.31W					Eastbound route only. Extremity of Z195.
(RNAV 1)	086°/ -	13.1 NM	FL 460 / FL 85	odd FL 450 / FL 90		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ MALUD	532448.17N 0033630.30W		WAL R275 17.1 NM 55 FT			Extremity of Z195. Intersection with (U)L975.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z196						
△ GUNTU	533537.40N 0030953.64W					Westbound route only. Extremity of Z196.
(RNAV 1)	283°/ -	16.7 NM	FL 460 / FL 115	even FL 430 / FL 120		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285).
△ DIGMA	533859.86N 0033723.50W					Intersection with M146.
(RNAV 1)	285°/ -	17.0 NM	FL 460 / FL 115	even FL 430 / FL 120		Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ LELDO	534259.53N 0040507.00W					Extremity of Z196. Intersection with M145.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z197						
△ LISTO	530835.93N 0021156.54W		POL R185 36.2 NM 1438 FT			Eastbound route only. Extremity of Z197.
(RNAV 1)	- /107°	23.5 NM	FL 460 / FL 85		odd FL 450 / FL 90	FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ EKLAD	531513.70N 0024928.85W		WAL R127 13.9 NM 55 FT			
(RNAV 1)	- /106°	20.1 NM	FL 460 / FL 85		odd FL 450 / FL 90	Between VOLFI and 3 NM east of VOLFI: Class C (All Levels). Between 3 NM east of VOLFI and EKLAD: FL 460/FL 195 Class C, FL 195/FL 85 Class A. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 118.780 (Below FL 285 to FL 195); Freq: 128.055 (Below FL 195).
△ VOLFI	532035.13N 0032150.51W					
(RNAV 1)	- /104°	10.4 NM	FL 460 / FL 85		odd FL 450 / FL 90	Class C. London ACC Freq: 132.860 (FL 335 and above); Freq: 135.580 (Below FL 335 to FL 285). Scottish ACC Freq: 133.050 (Below FL 285).
△ NOSLO	532253.72N 0033841.89W					Extremity of Z197.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z198						
△ ERDUV	535234.66N 0041008.23W					Westbound route only. Extremity of Z198.
(RNAV 1)	340°/ -	18.0 NM	FL 255 / FL 195	even FL 240 / FL 200		Class C. Scottish ACC Freq: 123.775 (All Levels).
△ MASOP	540921.02N 0042115.26W					Extremity of Z198. Intersection with M148.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z246						
△ HERON	552035.29N 0050000.00W					Westbound route only. Extremity of Z246. Intersection with N562.
(RNAV 1)	- /224°	6.1 NM	FL 255 / 5500 FT ALT		even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/ALT 5500 FT Class D. Scottish ACC Freq: 127.275 (All Levels).
△ DAUNT	552508.18N 0045246.93W					Extremity of Z246.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z247						
△ HERON	552035.29N 0050000.00W					Westbound route only. Extremity of Z247. Intersection with N562.
(RNAV 1)	- /261°	6.0 NM	FL 255 / 5500 FT ALT		even FL 240 / FL 80	FL 255/FL 195 Class C, FL 195/ALT 5500 FT Class D. Scottish ACC Freq: 127.275 (All Levels).
△ AKODA	552144.78N 0044942.12W					Extremity of Z247.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z248						
△ OSMEG	550826N 0040603W					Eastbound route only. Extremity of Z248. Intersection with T256.
(RNAV 1)	- /129°	20.1 NM	FL 255 / 5500 FT ALT		odd FL 230 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 5500 FT Class D. Scottish ACC Freq: 124.825 (FL 195 and above); Freq: 121.375 (Below FL 195).
△ LUCCO	552048.54N 0043341.11W					Extremity of Z248.

ENR 3.2 AREA NAVIGATION ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z249						
△ OSMEG	550826N 0040603W					Eastbound route only. Extremity of Z249. Intersection with T256.
(RNAV 1)	- /150°	11.0 NM	FL 255 / 5500 FT ALT		odd FL 230 / FL 70	FL 255/FL 195 Class C, FL 195/ALT 5500 FT Class D. Scottish ACC Freq: 124.825 (FL 195 and above); Freq: 121.375 (Below FL 195).
△ SUDBY	551745.35N 0041606.05W					Extremity of Z249.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace Class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
Z250						
△ LUCCO	552048.54N 0043341.11W					Eastbound route only. Extremity of Z250.
(RNAV 1)	095°/ -	17.4 NM	FL 255 / 5500 FT ALT	odd FL 230 / FL 70		FL 255/FL 195 Class C, FL 195/ALT 5500 FT Class D. Scottish ACC Freq: 124.825 (FL 195 and above); Freq: 121.375 (Below FL 195).
△ SUMIN	551945.76N 0040318.17W		TRN R088 25.0 NM 586 FT			
(RNAV 1)	079°/ -	37.1 NM	FL 255 / FL 125	odd FL 230 / FL 130		FL 255/FL 195 Class C, FL 195/FL 125 Class D. Scottish ACC Freq: 126.300 (FL 195 and above); Freq: 130.975 (Below FL 195).
△ HAVEN	552740.00N 0025946.67W		TLA R101 12.4 NM 2773 FT			Extremity of Z250. Intersection with Y96.

ENR 3.3 OTHER ROUTES

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
T9						
△ BEGAS	450000N 0090000W					Southbound route only. Extremity of T9.
(RNP 2) (CONTINENTAL/ OFFSHORE)	- /182°	216.0 NM	FL 660 / FL 290			Class A. Shanwick Oceanic Freq: HF as assigned. VHF 128.360 (All Levels).
△ LASNO	483554N 0090000W					Extremity of T9.

Route Remarks:
FL Series not applicable. Operators should file Even Levels for southbound transits but may be allocated Odd Levels.

Flight Plan: For RNP2 serviceability, qualification and authorisation, file: Field 10a - GRZ; Field 18 - NAV/RNP2. (See UK AIP ENR 2.2 for further details).

Exemption from FANS 1/A Carriage Requirement.

Requirement for ADS-B Out 1090 MHz Carriage.

Requirement for HF and VHF Carriage.

Routine communications are to be conducted with Shanwick Radio via assigned frequencies/channels using HF. 128.360 MHz is reserved for intervention or emergency purposes only and is to be continuously monitored.

Requirements to monitor 121.500 MHz and to broadcast on 121.500 MHz during in-flight contingencies, contained within UK AIP ENR 2.2 remain unchanged.

North Atlantic Strategic Lateral Offset Procedure (SLOP) does not apply to flights operating along T9. Aircraft shall maintain track along the centre-line of this route.

Route Designator	Route Usage Notes					
Significant Point Name	Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna			Remarks
(RNP/RNAV Type & Accuracy)	MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	IFR cruising levels max/min ↑	Airspace class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
T13						
△ NILAV	450000N 0132500W					Northbound route only. For continuation see AIP Portugal.
(RNAV 10)	017°/ -	237.7 NM	FL 660 / FL 55			Class A. Shanwick Oceanic Freq: HF as assigned (All Levels).
△ OMOKO	485020.30N 0120000.00W					Extremity of T13.

Route Remarks:
FL Series not applicable. T13 has no associated flight level allocation scheme. Operators are permitted to file flight plans at any flight level between the lower and upper limit for this route. T13 is available for Northbound flights only.

ENR 3.3 OTHER ROUTES (continued)

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
T16						
△ GONAN	450000N 0140000W					Southbound route only. For continuation see AIP Portugal.
(RNAV 10)	- /204°	244.7 NM	FL 660 / FL 55			Class A. Shanwick Oceanic Freq: HF as assigned (All Levels).
△ OMOKO	485020.30N 0120000.00W					Extremity of T16.
Route Remarks: FL Series not applicable. T16 has no associated flight level allocation scheme. Operators are permitted to file flight plans at any flight level between the lower and upper limit for this route. T16 is available for Southbound flights only.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
T213						
△ BERUX	450000N 0110000W					Extremity of T213.
(RNAV 10)	008°/188°	224.8 NM	FL 660 / FL 55			Class A. Shanwick Oceanic Freq: HF as assigned (All Levels).
△ TAMEL	484342.52N 0102949.80W					Extremity of T213.
Route Remarks: FL Series not applicable. T213 has no associated flight level allocation scheme. Operators are permitted to file flight plans at any flight level between the lower and upper limit on this route.						

Route Designator	Route Usage Notes					
Significant Point Name	**Significant Point Coordinates**		**Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna**			**Remarks**
(RNP/RNAV Type & Accuracy)	**MAG Track ↓ / ↑**	**Geodesic Distance**	**Upper limit / Lower limit**	**IFR cruising levels max/min**		**Airspace class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations**
				↓	↑	
T290						
△ ADVAT	450000.00N 0092811.19W					Northbound route only. Extremity of T290.
(RNP 2) (CONTINENTAL/ OFFSHORE)	002°/ -	218.7 NM	FL 660 / FL 290			Class A. Shanwick Oceanic Freq: HF as assigned. VHF 128.360 (All Levels).

ENR 3.3 OTHER ROUTES (continued)

Route Designator		Route Usage Notes				
Significant Point Name		Significant Point Coordinates		Waypoint: IDENT of VOR/DME BRG, DIST & ELEV of DME antenna		Remarks
(RNP/RNAV Type & Accuracy)		MAG Track ↓ / ↑	Geodesic Distance	Upper limit / Lower limit	IFR cruising levels max/min ↓	↑	Airspace class/ Controlling Unit/ Channel/ Logon address/ SATVOICE number/ RCP & RSP limitations
△	GELPO	483839.06N 0093009.45W					Extremity of T290.

Route Remarks:
FL Series not applicable. Operators should file Odd Levels for northbound transits but may be allocated Even Levels.

Flight Plan: For RNP2 serviceability, qualification and authorisation, file: Field 10a - GRZ; Field 18 - NAV/RNP2. (See UK AIP ENR 2.2 for further details).

Exemption from FANS 1/A Carriage Requirement.

Requirement for ADS-B Out 1090 MHz Carriage.

Requirement for HF and VHF Carriage.

Routine communications are to be conducted with Shanwick Radio via assigned frequencies/channels using HF. 128.360 MHz is reserved for intervention or emergency purposes only and is to be continuously monitored.

Requirements to monitor 121.500 MHz and to broadcast on 121.500 MHz during in-flight contingencies, contained within UK AIP ENR 2.2 remain unchanged.

North Atlantic Strategic Lateral Offset Procedure (SLOP) does not apply to flights operating along T290. Aircraft shall maintain track along the centre-line of this route.

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ENR 3.4 EN-ROUTE HOLDING

HLDG ID/ FIX/WPT Coordinates	INBD TR (°MAG)	Direction of PTN	MAX IAS (KT)	MNM/ MAX HLDG LVL	TIME or DIST OUBD	Controlling unit and Frequency	Remarks
1	2	3	4	5	6	7	8
ADLOG 501925N 0004933W	005°	Right	240	FL130 / FL260	1.5 MIN		RNAV Hold. Aircraft inbound to London Stansted/London Luton and Cambridge via TELTU STARs from ATS Routes M185/UM185 may be instructed to hold at ADLOG.
AMDUT 504028N 0004746E	312°	Right	240	FL160 / FL190	1 MIN		RNAV Hold. Aircraft inbound to Gatwick via TIMBA from KUNAV or NEVIL may be instructed to hold at AMDUT.
ARNUN 510326N 0005553E	216°	Right	220	FL100 / FL140	1 MIN		RNAV Hold. Aircraft inbound to Gatwick via TIMBA from ERING, TEBRA or KONAN may be instructed to hold at ARNUN.
BEL VOR 543940N 0061348W	124°	Right		FL250 / FL390	1.5 MIN		Conventional Hold based upon VOR BEL R304. Holding interval 1000 FT.
BILNI 504031N 0020733W	107°	Left	265	FL200 / FL300	1.5 MIN		RNAV Hold. Aircraft inbound to London Heathrow via OCK, London Gatwick via WILLO and Northolt traffic from ATS Routes L620, M17 or N514 above FL 200 may be instructed to hold at BILNI.
BOMBO 515944N 0002347W	091°	Left	220	FL70 / FL140	5 NM		RNAV Hold. Aircraft inbound to London City, London Luton or London Stansted Airports from the north or west may be required to hold at BOMBO.
BONBY 575330N 0042036W	157°	Left	210	- / FL100	1 MIN		RNAV Hold. N560
DCS DME 544319N 0032026W	152°	Right	255	FL250 / FL370	1.5 MIN		RNAV Hold. Holding interval 1000 FT.
DELBO 515237N 0011624W	153°	Right	240	FL150 / FL200	1.5 MIN		RNAV Hold. During periods of congestion in the London TMA aircraft inbound to London Gatwick from ATS Routes via HON, WAL and KEPAD may be required to hold at DELBO. Note: DELBO is not aligned with the ATS Routes (L612/UL612; N859) serving Gatwick inbound traffic. Traffic via L612/ UL612 may be required to route from DISIT to DELBO (True 129.724 MAG TR 130/21 NM). Traffic via N859 may be required to route from HON to DELBO.
DOMUT 501543N 0014009W	039°	Right	240	FL230 / -	1.5 MIN		RNAV Hold. Aircraft inbound to London Heathrow via OCK, London Gatwick via WILLO and Northolt traffic from ATS Routes Q41, P87/UP87 or Y110 may be instructed to hold at DOMUT.
GARVA 574118N 0042941W	123°	Right	210	- / -	5 NM		RNAV Hold. Y906
GAVEL 592300N 0012422W	008°	Left		- / -	4 NM		Conventional Hold based upon VOR SUM R188/ D30. Y905 Holding for propeller aircraft only.
GOKTU 501505N 0012245W	017°	Right	240	FL200 / FL340	1.5 MIN		RNAV Hold. Aircraft inbound to London Gatwick via VASUX STARs from ATS Routes P88/UP88 may be instructed to hold at GOKTU.
GUSSI 571247N 0040727W	009°	Right	210	- / -	5 NM		RNAV Hold. N560
HON DME 522124N 0013949W	145°	Right	240	FL150 / FL350	1.5 MIN		RNAV Hold.

ENR 3.4 EN-ROUTE HOLDING (continued)

HLDG ID/ FIX/WPT Coordinates	INBD TR (°MAG)	Direction of PTN	MAX IAS (KT)	MNM/ MAX HLDG LVL	TIME or DIST OUBD	Controlling unit and Frequency	Remarks
1	2	3	4	5	6	7	8
KATHY 503114N 0012000W	039°	Left	240	FL160 / FL190	1.5 MIN		RNAV Hold. Aircraft inbound to London Heathrow via OCK, London Gatwick via WILLO and Northolt traffic from ATS Routes L620, N63, Q41, P87/UP87 or Y110 above FL 160 may be instructed to hold at KATHY.
LAPRA 520707N 0011236E	244°	Right	240	FL150 / FL210	1.5 MIN		RNAV Hold.
LOGAN 514451N 0013643E	288°	Left	240	FL150 / FL410	1.5 MIN		RNAV Hold.
LOGAN 514451N 0013643E	288°	Left	220	FL100 / FL140	1 MIN		RNAV Hold.
ORZEB 512426N 0022754W	096°	Left	240	FL160 / FL240	1.5 MIN		RNAV Hold.
OKVAP 505749N 0011956E	001°	Left	220	FL130 / FL150	1 MIN		RNAV Hold. Aircraft inbound to London City/Biggin Hill/ Southend from RATUK and NEVIL may be instructed to hold at OKVAP.
PETOX 573333N 0014902W	188°	Left		- / -	1 MIN		RNAV Hold. Y905 Holding for propeller aircraft only.
ROPMU 520614N 0002917E	097°	Right	220	FL160 / FL210	1 MIN		RNAV Hold. Aircraft inbound to London City/Biggin Hill via JACKO from WAL or HON may be instructed to hold at ROPMU.
SMOKI 574637N 0023556W	160°	Right		- / -	4 NM		Conventional Hold based upon VOR ADN R340/ D30. Y904 Holding for propeller aircraft only.
STN VOR 581225N 0061059W	137°	Right		FL250 / FL390	1.5 MIN		Conventional Hold based upon VOR STN R317. Holding interval 1000 FT.
TLA VOR 552957N 0032110W	151°	Left		FL250 / FL350	1.5 MIN		Conventional Hold based upon VOR TAL R331. Holding interval 1000 FT.

ENR 4 RADIO NAVIGATION AIDS/SYSTEMS

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE

Name of Station/ MAG Var/ VOR Declination	Ident	Frequency (Channel)	Hours of operation	Coordinates	DME Aerial Elevation	FRA Relevance	Remarks/ Usage
1.	2.	3.	4.	5.	6.	7.	8.
ABERDEEN VOR/DME 0.04°E (2027) 0.37°W (2021)	ADN	114.300 MHz 90X	H24 Hours of operation for aerodrome purposes: HO	571837.62N 0021602.09W	610 FT	IAD	FRA (A): EGPC, EGPE, EGPN, EGPT, EGQL, EGPF, EGPH, EGPG, EGPK FRA (D): EGPC, EGPE, EGPN, EGPT, EGQL APCH Aid to Aberdeen/Dyce. VOR/DME DOC: 90 NM/50,000 FT (200 NM/50,000 FT in Sector R045-135).
BARKWAY DME 1.36°E (2027)	BKY	109Y 116.250 MHz	H24	515923.17N 0000342.87E	486 FT		No associated En-route VOR. DME DOC: 120 NM/50,000 FT.
BELFAST VOR/DME 1.19°W (2027) 1.2°W (2024)	BEL	117.200 MHz 119X	H24	543940.12N 0061347.66W	221 FT		APCH Aid to Belfast Aldergrove. On Belfast Aldergrove AD. VOR/DME DOC: 40 NM/50,000 FT (200 NM/50,000 FT in Sector R226-346). There may be VOR bearing fluctuations in Sectors R060-110 and R140-180.
BENBECULA DME 2.11°W (2027)	BEN	86Y 113.950 MHz	H24 Hours of operation for aerodrome purposes: Refer to EGPL AD 2.3 Operational hours.	572840.57N 0072155.08W	46 FT		No associated En-route VOR. APCH Aid to Benbecula. On Benbecula AD. DME DOC: 150 NM/50,000 FT (200 NM/50,000 FT in Sector R197-002).
BERRY HEAD VOR/DME 0.32°E (2027) 0.4°W (2020)	BHD	112.050 MHz 57Y	H24	502354.96N 0032937.28W	218 FT	IAD	FRA (A): EGHH FRA (D): EGFF, EGGD VOR DOC: 85 NM/50,000 FT. DME DOC: 85 NM/50,000 FT (160 NM in Sector R210-015). Due to terrain effects significant bearing errors may occur below 3000 FT in Sector R010-025 at ranges between 14 NM and 19 NM.
BIGGIN DME 1.39°E (2027)	BIG	98X 115.100 MHz	H24	511951.15N 0000205.32E	589 FT		No associated En-route VOR. APCH Aid to Biggin Hill. On Biggin Hill AD. DME DOC: 60 NM/50,000 FT (125 NM/50,000 FT in Sector R284-044 and 100 NM/50,000 FT in Sector R044-134). Due to terrain, coverage at low level is reduced in Sector R114-219. In addition DME unlocks may occur in Sector R004-039 at ranges up to 25 NM.
BOVINGDON DME 1.18°E (2027)	BNN	84Y 113.750 MHz	H24	514334.19N 0003259.10W	558 FT		No associated En-route VOR. DME DOC: 60 NM/50,000 FT.
BRECON DME 0.27°E (2027)	BCN	121Y 117.450 MHz	H24	514331.89N 0031546.92W	1450 FT	D	FRA (D): EGTE No associated En-route VOR. DME DOC: 65 NM/50,000 FT (125 NM/50,000 FT in Sector R136-001).
BROOKMANS PARK DME 1.32°E (2027)	BPK	122X 117.500 MHz	H24	514459.05N 0000624.25W	392 FT		No associated En-route VOR. DME DOC: 40 NM/50,000 FT (80 NM/50,000 FT in Sector R284-359).

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE (continued)

Name of Station/ MAG Var/ VOR Declination	Ident	Frequency (Channel)	Hours of operation	Coordinates	DME Aerial Elevation	FRA Relevance	Remarks/ Usage
1.	2.	3.	4.	5.	6.	7.	8.
CLACTON VOR/DME 1.72°E (2027) 1.3°E (2022)	CLN	114.550 MHz 92Y	H24	515054.50N 0010851.32E	100 FT		VOR/DME DOC: 100 NM/50,000 FT (150 NM/50,000 FT in Sector R314-044).
COMPTON VOR/DME 0.98°E (2027) 0.4°E (2021)	CPT	114.350 MHz 90Y	H24	512929.66N 0011310.89W	498 FT		VOR/DME DOC: 80 NM/50,000 FT (150 NM/50,000 FT in Sector R225-045 and 130 NM/ 50,000 FT in Sector R045-135).
DAVENTRY DME 0.96°E (2027)	DTY	111X 116.400 MHz	H24	521048.51N 0010649.64W	600 FT		No associated En-route VOR. DME DOC: 60 NM/50,000 FT (75 NM/50,000 FT in Sector R284-344).
DEAN CROSS DME 0.08°W (2027)	DCS	99X 115.200 MHz	H24	544318.88N 0032026.30W	732 FT		No associated VOR. Any VOR indications should be ignored. DME DOC: 100 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sector R093-163.
DETLING DME 1.58°E (2027)	DET	120X 117.300 MHz	H24	511814.41N 0003550.19E	645 FT		No associated En-route VOR. DME DOC: 60 NM/50,000 FT.
DOVER DME 1.82°E (2027)	DVR	96Y 114.950 MHz	H24	510945.44N 0012132.71E	325 FT		No associated En-route VOR. DME DOC: 80 NM/50,000 FT (200 NM/50,000 FT in Sector R014-074).
DUNDONALD DME 0.68°W (2027)	DUD	101Y 115.450 MHz	H24	553331.70N 0043605.54W	506 FT		No associated En-route VOR. DME DOC: 160 NM/50,000 FT. Coverage is reduced in the sector R115-145.
GAMSTON DME 0.93°E (2027)	GAM	75X 112.800 MHz	H24	531653.28N 0005649.79W	115 FT		No associated En-route VOR. DME DOC: 80 NM/25,000 FT.
GLASGOW DME 0.66°W (2027)	GOW	101X 115.400 MHz	H24 Hours of operation for aerodrome purposes: HO	555213.81N 0042644.60W	46 FT	IAD	FRA (A): EGPI, EGPU FRA (D): EGPI, EGPN, EGPT, EGPU, EGQL No associated En-route VOR. DME DOC: 70 NM/50,000 FT (200 NM/50,000 FT in Sector R241-001). Due to terrain, coverage at low level is reduced in Sectors R346-026 and R181-201.
GOODWOOD DME 1.17°E (2027)	GWC	94Y 114.750 MHz	H24	505118.79N 0004524.25W	122 FT		No associated En-route VOR. DME DOC: 80 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sector R299-044.
GREAT DUN FELL DME 0.25°E (2027)	DUF	99Y 115.250 MHz	H24	544100.60N 0022703.66W	2803 FT		No associated En-route VOR. DME DOC: 160 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sector R300-020.
GREEN LOWTHER DME 0.32°W (2027)	GLO	33Y 109.650 MHz	H24	552324.44N 0034411.52W	2408 FT		No associated En-route VOR. DME DOC: 160 NM/50,000 FT. Coverage is reduced in the sectors R005-020 and R235-270.
HENTON NDB 1.10°E (2027)	HEN	433.500 kHz	H24	514535.07N 0004725.05W			No associated En-route navigational dependency. Range 30 NM.
HONILEY VOR/DME 0.76°E (2027) 0.6°E (2023)	HON	113.650 MHz 83Y	H24	522124.04N 0013949.41W	435 FT		VOR/DME DOC: 60 NM/50,000 FT (85 NM/50,000 FT in Sector R179-239 and 100 NM/50,000 FT in Sector R314-001).

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE (continued)

Name of Station/ MAG Var/ VOR Declination	Ident	Frequency (Channel)	Hours of operation	Coordinates	DME Aerial Elevation	FRA Relevance	Remarks/ Usage
1.	2.	3.	4.	5.	6.	7.	8.
ISLE OF MAN VOR/DME 0.54°W (2027) 0.8°W (2022)	IOM	112.200 MHz 59X	H24	540401.12N 0044548.50W	567 FT	I	APCH Aid to Isle of Man. VOR DOC: 60 NM/50,000 FT (75 NM/50,000 FT in Sector R271-211). DME DOC: 60 NM/50,000 FT (160 NM/18,000 FT in Sector R271-091 and 130 NM/ 18,000 FT in Sector R091-211) (160 NM/18,000-50,000 FT in Sector R271-076 and 100 NM/18,000-50,000 FT in Sector R076-211).
JERSEY VOR/DME 0.88°E (2027) 0.65°W (2020)	JSY	112.200 MHz 59X	H24 Hours of operation for aerodrome purposes: HO	491315.98N 0020246.12W	276 FT		APCH Aid to Jersey. DOC: 60 NM/50,000 FT (40 NM/ 50,000 FT in Sector 048-183M). Due to terrain effects DME coverage is reduced in Sector R180-360 and unlocks occur. DME unlocks may occur on the 08 Approach Procedure. ENR Purpose: 491316N 0020246W
LAMBOURNE DME 1.41°E (2027)	LAM	103X 115.600 MHz	H24	513845.69N 0000906.13E	241 FT		No associated En-route VOR. DME DOC: 40 NM/50,000 FT (110 NM/50,000 FT in Sector R314-134).
LAND'S END VOR/DME 0.38°W (2027) 1.0°W (2020)	LND	114.200 MHz 89X	H24	500810.54N 0053813.06W	760 FT	IAD	FRA (A): EGHQ FRA (D): EGTE, EGHQ VOR/DME DOC: 200 NM/50,000 FT
LONDON DME 1.22°E (2027)	LON	83X	H24	512914.09N 0002759.54W	113 FT		No associated En-route VOR. DME DOC: 40 NM/50,000 FT (100 NM/50,000 FT in Sector R179-254 and 80 NM/50,000 FT in Sector R254-314). DME unlocks may occur in the Sector R179-249 at ranges greater than 50 NM.
LYDD DME 1.68°E (2027)	LYD	87Y 114.050 MHz	H24	505958.87N 0005243.18E	30 FT		No associated En-route VOR. DME DOC: 80 NM/50,000 FT (100 NM/50,000 FT in Sector R194-254).
MACHRIHANISH DME 1.07°W (2027)	MAC	107X 116.000 MHz	H24	552548.08N 0053901.49W	122 FT	IAD	FRA (A): EGAA, EGAC, EGEO, EGPF, EGPG, EGPH, EGPU, EIDL FRA (D): EGAA, EGAC, EGEO, EGPF, EGPG, EGPU, EIDL No associated En-route VOR. DME DOC: 150 NM/50,000 FT (200 NM/50,000 FT in Sector R227-347). Due to terrain, coverage at low level is reduced in Sectors R122-162, R207-237 and R347-082.
MADFORD DME 0.36°E (2027)	DFO	45Y 110.850 MHz	H24	505131.28N 0031426.45W	870 FT		No associated En-route VOR. DME DOC: 130 NM/50,000 FT.
MANCHESTER DME 0.46°E (2027)	MCT	82Y 113.550 MHz	H24 Hours of operation for aerodrome purposes: HO	532125.29N 0021544.24W	280 FT		On Manchester AD. No associated En-route VOR. DME DOC: 90 NM/50,000 FT.
MAYFIELD DME 1.44°E (2027)	MAY	126X 117.900 MHz	H24	510101.86N 0000658.04E	384 FT		No associated En-route VOR. DME DOC: 40 NM/25,000 FT (60 NM/25,000 FT in Sector R104-164). Due to terrain, coverage at low level is reduced in Sector R314-039.

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE (continued)

Name of Station/ MAG Var/ VOR Declination	Ident	Frequency (Channel)	Hours of operation	Coordinates	DME Aerial Elevation	FRA Relevance	Remarks/ Usage
1.	**2.**	**3.**	**4.**	**5.**	**6.**	**7.**	**8.**
MIDHURST DME 1.20°E (2027)	MID	87X 114.000 MHz	H24	510314.23N 0003730.01W	233 FT		No associated En-route VOR. DME DOC: 60 NM/50,000 FT (100 NM/50,000 FT in Sector R239-359).
NEWCASTLE DME 0.50°E (2027)	NEW	89Y 114.250 MHz	H24	550218.41N 0014154.14W	287 FT		On Newcastle AD. No associated VOR. Any VOR indications should be ignored. DME DOC: 200 NM/50,000 FT. ENR Purpose: 550218N 0014154W
OCKHAM DME 1.24°E (2027)	OCK	100X 115.300 MHz	H24	511818.17N 0002649.86W	200 FT		RNAV Substitution Only. No associated En-route VOR. DME DOC: 70 NM/25,000 FT (90 NM/25,000 FT in Sector R059-089).
OTTRINGHAM VOR/DME 1.19°E (2027) 1.4°E (2024)	OTR	113.900 MHz 86X	H24	534153.49N 0000613.61W	34 FT		VOR/DME DOC: 100 NM/60,000 FT (200 NM/60,000 FT in Sector R014-074 and 150 NM/60,000 FT in Sector R074-134).
PERTH VOR 0.30°W (2027) 0.5°W (2023)	PTH	110.400 MHz	H24	562632.63N 0032206.96W		IAD	FRA (A): EGEO FRA (D): EGPD, EGPK, EGEO No associated En-route navigational dependency. No associated DME. Any DME indications should be ignored.
POLE HILL VOR/DME 0.48°E (2027) 0.50°E (2023)	POL	112.100 MHz 58X	H24	534437.60N 0020611.83W	1438 FT		VOR/DME DOC: 115 NM/50,000 FT (150 NM/50,000 FT in Sector R075-015). Due to terrain, coverage at low level is reduced in Sector R280-335.
SAINT ABBS VOR/DME 0.22°E (2027) 0.2°W (2022)	SAB	112.500 MHz 72X	H24	555427.04N 0021222.81W	760 FT	IA	FRA (A): EGPF VOR DOC: 50 NM/50,000 FT (200 NM/50,000 FT in Sector R045-135 and 100 NM/50,000 FT in Sector R240-285). DME DOC: 90 NM/50,000 FT (200 NM/50,000 FT in Sector R045-135 and 100 NM/50,000 FT in Sector R240-285).
SEAFORD VOR/DME 1.46°E (2027) 1.0°E (2021)	SFD	117.000 MHz 117X	H24	504538.48N 0000718.89E	289 FT		VOR/DME DOC: 75 NM/50,000 FT (120 NM/50,000 FT in Sector R254-299).
SOUTHAMPTON DME 0.98°E (2027)	SAM	80Y 113.350 MHz	H24 Hours of operation for aerodrome purposes: HO	505718.90N 0012042.20W	64 FT		No associated En-route VOR. DME DOC: 100 NM/50,000 FT (150 NM/50,000 FT in Sector R224-314). DME unlocks may be experienced at ranges exceeding 30 NM below 8000 FT.
STORNOWAY VOR/DME 1.72°W (2027) 2.2°W (2022)	STN	115.100 MHz 98X	H24	581225.02N 0061058.97W	299 FT	IAD	FRA (A): EGPE, EGPL, EGPU, EGEO, EGQS FRA (D): EGPE, EGPL, EGPU, EGEO APCH Aid to Stornoway. VOR/DME DOC: 105 NM/50,000 FT (200 NM/50,000 FT in Sector R167-107). ENR Purpose: 581225N 0061059W

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE (continued)

Name of Station/ MAG Var/ VOR Declination	Ident	Frequency (Channel)	Hours of operation	Coordinates	DME Aerial Elevation	FRA Relevance	Remarks/ Usage
1.	2.	3.	4.	5.	6.	7.	8.
STRUMBLE VOR/DME 0.39°W (2027) 0.7°W (2022)	STU	113.100 MHz 78X	H24	515940.87N 0050224.70W	551 FT		VOR DOC: 85 NM/50,000 FT (200 NM/50,000 FT in Sector R211-331 and 120 NM/50,000 FT in Sector R331-016). DME DOC: 85 NM/50,000 FT (170 NM/50,000 FT in Sector R136-211, 200 NM/50,000 FT in Sector R211-331 and 120 NM/50,000 FT in Sector R331-016).
SUMBURGH VOR/DME 0.18°E (2027) 0° (2023)	SUM	117.350 MHz 120Y	H24	595243.42N 0011711.51W	80 FT		APCH Aid to Sumburgh. On Sumburgh AD. VOR/DME DOC: 200 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sectors R140-160, R285-305 and R345-005.
TALLA VOR/DME 0.18°W (2027) 0.9°W (2021)	TLA	113.800 MHz 85X	H24	552956.84N 0032110.09W	2773 FT	EXAD	FRA (X): ODD FL FRA (A): EGNT, EGNV FRA (D): EGNT, EGNV VOR/DME DOC: 100 NM/50,000 FT (120 NM/50,000 FT in Sector R316-016).
TIREE VOR/DME 1.73°W (2027) 1.7°W (2024)	TIR	117.700 MHz 124X	H24	562935.61N 0065232.27W	51 FT	IAD	FRA (AD): EGAE, EGEC, EGEO APCH Aid to Tiree. On Tiree AD. VOR/DME DOC: 90 NM/50,000 FT (200 NM/50,000 FT in Sector R227-317).
TRENT DME 0.69°E (2027)	TNT	104X 115.700 MHz	H24	530314.23N 0014011.90W	994 FT		No associated En-route VOR. DME DOC: 80 NM/50,000 FT (100 NM/50,000 FT in Sector R300-000).
TURNBERRY DME 0.71°W (2027)	TRN	122X 117.500 MHz	H24	551848.28N 0044701.91W	586 FT	IAD	FRA (A): EGAA, EGAC, EGAE, EGNS, EGPN, EGPT, EGQL FRA (D): EGAA, EGAC, EGAE, EGNS, EGPH No associated En-route VOR. DME DOC: 100 NM/50,000 FT (60 NM/50,000 FT in Sector R076-226 and 200 NM/50,000 FT in Sector R271-001). In addition coverage at low level is reduced in Sector R066-106.
WALLASEY VOR/DME 0.14°E (2027) 0.2°W (2022)	WAL	114.100 MHz 88X	H24	532330.97N 0030804.06W	55 FT		VOR/DME DOC: 120 NM/50,000 FT.
WICK VOR/DME 0.44°W (2027) 0.8°W (2022)	WIK	113.600 MHz 83X	H24	582731.74N 0030601.34W	145 FT	IAD	FRA (AD): EGPD, EGPE, EGPO APCH Aid to Wick. On Wick AD. VOR/DME DOC: 100 NM/50,000 FT (160 NM/50,000 FT in Sector R331-001). ENR Purpose: 582732N 0030601W
WINSTONE DME 0.68°E (2027)	WIN	104Y 115.750 MHz	H24	514726.30N 0020300.77W	863 FT		No associated En-route VOR. DME DOC: 160 NM/50,000 FT. Coverage is reduced in the Sector R175-190.
WOODLEY NDB 1.09°E (2027)	WOD	352.000 kHz	H24	512710.02N 0005243.68W			No associated En-route navigational dependency. Range 25 NM.

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ENR 4.2 SPECIAL NAVIGATION SYSTEMS

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ENR 4.3 GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)

GNSS Element	Frequency	Co-ordinates	Remarks
GPS	SPS L1 (1575.42 MHz)	All UK Airspace	U.S. Department of Defense.
EGNOS	L1 (1575.42 MHz)	As notified through individual aerodrome Instrument Approach Procedures	European Satellite Services Provider – ESSP.

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ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
ABBEW	503011.88N 0032833.64W	N864, N90	A	FRA (A): EGJJ, EGJB
ABBOT	520058.00N 0003558.49E			EGGW STARs - EGSS STARs
ABEDA	521939.63N 0015215.84E	P155		
ABEVI	544227.00N 0024629.24W	N601, UN590, UN601		
ABGEP	532539.32N 0045139.71W	Q36		
ABKAT	540853.12N 0015846.69W	L613, P18, UP18		
ABKIM	505043N 0015858W	L620		
ABLIN	524657.86N 0045933.38W	L18		
ABLUC	534756.75N 0043045.91W		E	
ABSAV	503828.94N 0011029.05W	L980		EGLF STARs
ABSUN	541732.20N 0061517.74W	N34		
ABTOS	531444.92N 0002536.29E	N110, Y70		
ABTUM	512603.66N 0012228.98E	M84		EGKK STARs
ABWIV	515248.67N 0030032.70W	N862	IA	FRA (A): EGTE
ACBAZ	514440.67N 0030214.79W			EGFF STARs
ACCAQ	515152.62N 0035035.63W	L9		
ACCOP	515544.33N 0032257.07W	P16	I	
ADASI	591315.16N 0061731.47W		IAD	FRA (AD): EGPO
ADELU	532630.48N 0013212.64W	L60, M868, UM868		→
ADGEG	531343N 0021906E	P40, UM185		
ADHAV	515452.88N 0051348.51W	N24, N30, P70	I	
ADKIK	504748.52N 0023245.46W	N19, N514	E	
ADLOG	501925.00N 0004933.40W	M185, UM185		
ADMEX	522139.20N 0012744.81W	N93, Y321		EGBB SIDs
ADMIS	515948.54N 0001035.56E	L608, M183		
ADNAM	520616.98N 0004418.84E			EGSS STARs
ADODO	583000.00N 0100000.00W		EX	Shanwick OCA
ADRUD	491014N 0062655W			
ADVAS	514053.03N 0012633.13E			EGMC STARs
ADVAT	450000.00N 0092811.19W	T290		
AGBOS	515014.72N 0033756.19W	L9		
AGCAT	515128.74N 0044454.82W	P70, Q63	IA	FRA (A): EGFF, EGGD, EGBJ
AGLIL	533441.99N 0032711.30W	L28, M146, UL28		
AGORI	570000N 0130000W			NOTA. See also AIP Ireland
AGPED	550718.90N 0015657.15W	N110, Y96		
AKIVO	595751.58N 0093000.00W		I	
AKODA	552144.78N 0044942.12W	Z247		EGPK SIDs
AKOKO	531416.24N 0031207.03E	N866		
AKUPA	522911.57N 0010528.03W	T420, UY250, Y250		
ALASO	552650.23N 0013353.69W	P18, UP18	EX	FRA (X): EVEN FL
ALAVA	532342.60N 0035817.31W	Q36, Z195		
ALESO	503432.24N 0011331.50E	T420		EGLL STARs
ALHAD	512346.75N 0010858.16W	L607, N859, P72, UN859		
ALHUP	524244.24N 0025628.15W	N862	I	
ALOTI	575427.01N 0033630.27E		I	FRA (I) Polaris FIR
ALUTA	490018.65N 0072953.23W			
AMCON	553431.14N 0063837.46W	N562	IAD	FRA (AD): EGPK, EGAA, EGAC
AMDUT	504027.90N 0004746.38E			En-Route Hold - EGKK STARs
AMFEP	523050.36N 0021851.80E	Z150		
AMFUL	512844.40N 0033721.36W	P2	I	
AMLAD	561552.37N 0100000.00W		I	FRA (I): NOTA NOTA UIR Boundary
AMLET	531606.52N 0015017.59W			EGCC STARs

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
AMMAN	515025.95N 0035954.00W			EGGD STARs - EGFF STARs
AMPIT	531139.41N 0031132.59W	L15, UY124, Y124		EGBB STARs - EGNX STARs
AMPOP	493147.68N 0060902.85W		EX	FRA (E): EVEN FL FRA (X): ODD FL
AMTAP	582225.36N 0093000.00W		I	Oceanic Landfall point
AMTOD	503215.69N 0012544.46W			EGLL STARs
AMVEL	531102.96N 0000155.16W	L603		
AMWAB	514608.52N 0040136.69W	Q63		
ANJAK	525350.17N 0025933.44W	N38	X	FRA (X): EVEN FL
ANMAZ	543321.61N 0000810.62E			
ANNET	493905.11N 0040005.00W		EX	FRA (E): EVEN FL FRA (X): ODD FL
APPLE	543000.00N 0023050.23W	UN590		EGPF STARs - EGPK STARs
APSOV	554922.84N 0100000.00W		I	FRA (I): NOTA NOTA UIR Boundary
ARKIL	503928N 0080000W		I	FRA (I): Shannon FIR
ARNUN	510325.98N 0005552.98E			En-Route Hold - EGKK STARs
ARPAK	514844.64N 0031905.48W	L9, N80	ID	FRA (D): EGVN, EGVA, EGBP
ARPUB	533534N 0011428W	L975, UL975		
ARREK	513643.04N 0015007.27E	Q63, Y4		
ARSAT	543206.19N 0014418.63W	UP17		
ARTEX	565341.37N 0035738.47E		I	
ARTIX	532342.08N 0010208.72W	L60		
ASHUM	513607.25N 0015336.46W	Q63		EGGD STARs
ASKAM	545747.34N 0031349.91E	L7, P13, UP59		
ASLIB	544927.55N 0030339.35W			EGPF STARs - EGPK STARs
ASMIM	532645.75N 0023910.71W	L975, P16, UL975, UP16		EGCC SIDs
ASNIP	532843.09N 0025425.97W	L28, L8, UL28, UL8		
ASNUD	564139.00N 0030320.35W	N864, P600	ID	FRA (D): EGPF, EGPG, EGPH
ASRUS	550321N 0032045W	N864, UN864		
ATHAS	523644.93N 0024528.05W	P17	IA	FRA (A): EGVN, EGVA, EGBJ, EGBP
ATNAK	570000.00N 0050000.00E		I	FRA (I): Polaris FIR
ATSAP	512715.96N 0013016.98E			EGMC STARs
ATSIX	600000N 0100000W		EX	Shanwick OCA
ATSUR	500000N 0140000W			SOTA landfall point. See also AIP Ireland
AVANT	504912.00N 0005618.05W	L980, M184, N16, N867, UM184, UN867		EGKK STARs - EGGW STARs - EGSS STARs - EGKB STARs - EGLC STARs
AVRAL	553034N 0034259E		I	
AVTIC	524304.81N 0030757.93W	N38, N864	I	
AVZAC	514637.02N 0050355.57W		I	
AXCIS	524319.48N 0031634.76W	P16		EGCC STARs
AXNEF	514505.23N 0035319.14W	Q63	I	
AZCAL	515417.03N 0031144.52W	N864	I	
BABGU	541639.33N 0051625.07W	Q39	I	
BABRA	533739.37N 0035642.63W	L70, M144, UL70		
BADGA	553749.24N 0023657.62E		I	
BADIM	513837.89N 0023040.43W			
BADSI	523930.00N 0044617.12W	L18		
BAGIT	531344.63N 0035918.18W	UY124, Y124		
BAGSO	534047.96N 0053000.00W	L70, M144, M145, UL70		
BAJJA	514805.01N 0041705.77W	Q63		EGGD STARs - EGFF STARs
BAKOX	533143.40N 0050933.03W	Q37		EGGP STARs
BAKUR	521429.61N 0054048.81W	N24, N546	I	FRA (I): Shannon FIR

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
BALID	562949.16N 0015706.88W	P18	IAD	FRA (AD): EGQS
BALIX	590000N 0100000W		EX	Shanwick OCA
BAMEP	535242N 0021609W	N57, UN57		
BAMLI	540828N 0063904W			Co-ordination point on Shannon/Scottish FIR boundary
BAMRA	592600.28N 0035709.80W		IAD	FRA (AD): EGPC
BANBA	515710.10N 0061420.59W	N30	I	FRA (I): Shannon FIR
BANEM	522008.11N 0013019.26E	M604, N866, P155, Y6		
BANTO	522127.65N 0001357.38W	P155, P166		
BANVA	503242N 0004512E	M733, UM733, Y8		EGGW STARs - EGSS STARs
BAPHU	511042.47N 0034442.58W		I	
BARKU	603617.61N 0092436.37W		I	
BARMI	522841.76N 0023413.73E	P25, P7		EGKK STARs - EGLL STARs
BAROS	532422.39N 0032643.38W			EGGP STARs
BARTN	532814.17N 0022541.11W	L612, L975, N58, P17, UL612, UL975, UP17		EGGP SIDs
BATLI	533845.07N 0012136.90W	UY250, Y250, Y70		
BAVDO	541819.73N 0010925.35W	N110		
BAVUD	533108.30N 0045109.14W	Q37		EGGP STARs
BAZNA	541110.60N 0012655.93E			
BEBNI	545905.82N 0033514.22W	L612, UL612		
BEDFO	521330.00N 0003347.81W	N601, UN601		
BEDRA	490000N 0150000W			SOTA. See also AIP Ireland
BEGAM	540924.84N 0020715.43W	UP16		EGBB STARs - EGNX STARs - EGCC STARs
BEGAS	450000N 0090000W	T9		
BEGID	563000N 0140000W			NOTA landfall point. See also AIP Ireland
BEGTO	504545.12N 0011407.99W	N16		EGKK STARs - EGLL STARs - EGGW STARs - EGSS STARs - EGKB STARs - EGLC STARs
BEKET	585313.00N 0013120.14W	Y905	IAD	FRA (AD): EGPB
BEKMO	525910.21N 0023710.22E	M604		
BELOX	535316.37N 0032923.15W	L603	EX	FRA (X): ODD FL
BELZU	543940.00N 0061348.00W	L10, N34, P6	IAD	FRA (AD): EGNS, EIDW, EGPI
BENBO	502704.76N 0000036.71E	L612, UL612, UY47, Y47		
BENSU	513444.26N 0005508.45W	M605, Q70, UM605		
BEPHE	523033.98N 0024600.31W	P17	D	FRA (D): EGGP, EGCC, EGNR, EGNO, EGNH
BEREP	590209N 0014420E		I	FRA (I): Polaris FIR
BERUL	524016.19N 0033112.63W	Y125	I	
BERUX	450000N 0110000W	T213		
BESGA	604722.52N 0075445.75W		I	
BETAX	530032.89N 0005402.72W	L613		
BETPO	514754N 0004328W	L15		
BEVAM	554352.88N 0001502.96E		IA	FRA (A): EGNT, EGNV
BEVUP	504800N 0021420W	L620		
BIBPE	514258.91N 0015108.70W	L9, N14	ID	FRA (D): EGGW, EGKK, EGSS, EGSC
BIDVA	504338.76N 0005839.48W			EGKB STARs - EGLC STARs - EGMC STARs
BIFCU	520816.67N 0032202.77W	P16		
BIFIN	520322.51N 0022718.91W			EGBB STAR
BIGNO	500000N 0024930W	L149		EGJB STARs - EGJJ STARs
BILLY	600110.57N 0083408.26W		I	
BILNI	504031.08N 0020732.56W	N866		En-route Hold
BILTO	563000N 0150000W			NOTA. See also AIP Ireland

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
BILVO	534352.26N 0031108.89W	N864, UL8, UN864, UP6		
BIMGO	493000N 0140000W			SOTA landfall point. See also AIP Ireland
BINBO	532406.07N 0032029.35E	N866, P1		
BINTI	543344.74N 0015944.93W	UP16		
BISRU	510418.09N 0002202.82E	T421		
BLACA	545300.00N 0050931.92W	P600, P620	IAD	FRA (A): EIDW FRA (D): EGPF, EGPG EGPH STARs - EGPF STARs - EGPK STARs
BLIXY	513730.25N 0015831.54E	Q63		
BODSO	530308.25N 0020540.71E	L17, L989, Y70		
BOFUM	533213.98N 0053000.00W	Q37		EGGP STARs
BOGNA	504207.00N 0001505.57W	L612, UL612		EGKK SIDs
BOLBI	532759.75N 0014845.07W	L60, N601, UN601		
BOLRO	500000.00N 0014129.43W	P83, P87, UP83, UP87		
BOMBO	515944.29N 0002346.85W			En-route Hold - EGLC STARs - EGGW STARs - EGSS STARs - EGMC STARs - EGKB STARs
BONBY	575330N 0042036W	N560	IAD	FRA (AD): EGPA En-route Hold
BOXHE	500929.33N 0033829.69W		I	
BOYNE	534601.59N 0053000.00W	Y911		
BRAIN	514839.91N 0003906.00E	M197, P44, Q295		EGLC STARs - EGMC STARs - EGKB STARs
BRASO	514106.57N 0004100.03E	L980		EGLL STARs
BRIPO	504227.47N 0024500.00W	L620		
BRUCE	561411.05N 0055028.09W	L602, Y958	IAD	FRA (A): EGPF, EGPG, EGPH, EGPK, EGPL FRA (D): EGPF, EGPG, EGPL, EGPH
BRUMI	522237.21N 0020019.14W	L151, N92		EGBB SIDs
BUCFA	513013.22N 0020941.09W	L607		
BUCGO	514606.08N 0023637.20W	L9, N92	D	FRA (D): EGLL
BUDON	574206.85N 0003343.38W	P600	ID	FRA (D): EGPD
BUDXE	502818.29N 0031744.21W	L149, N862		
BUGUP	515237.17N 0013659.89W	L8, Y322		EGHH STARs - EGHI STARs
BUKUT	524530.21N 0024801.68E	L603, N866, P7		
BURNI	534337.76N 0023103.86W			EGCC STARs
BUSTA	520534.45N 0000403.92E			EGGW STARs - EGSS STARs
BUZAD	515632.08N 0003308.21W	L10, Q75, T420		EGBB STARs - EGSS SIDs
CALDA	534627.00N 0023838.38W	L612, UL612		EGGP STARs
CANZI	510121.30N 0065812.04W	L38	IA	FRA (A): EICK
CARWI	512505.88N 0031744.16W	N864, N91	I	
CASEL	534952.13N 0041056.75W	L10		
CAWZE	512227.35N 0015920.05W	N21, P2	IA	FRA (A): EGGW, EGLC, EGSS
CESQA	513940.99N 0013711.97W		EX	
CHASE	523647.51N 0015501.92W			EGBB STARs
CHINN	575751.00N 0041117.14W	N560		
CLYDE	555748.43N 0044731.51W	L602	I	EGPF SIDs/STARs
COCCU	521604.34N 0000322.02W			EGGW STARs
CONHA	524226.44N 0024659.26W	P17		
CONKO	513648.00N 0020310.18W	L18, Q63		EGFF STARs
COWLY	513657.58N 0010353.72W	L612, Q41, Q70, T71, UL612, UT71		EGBB SIDs
CREWE	524906.85N 0021826.90W			EGBB STARs - EGNX STARs
CROFT	533736.89N 0023219.85W	L612, P16, UL612, UP16, Y70		EGBB STARs - EGNX STARs - EGGP STARs

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
CUTEL	555308.89N 0022227.68E		I	
DAGGA	514919.37N 0004739.00E	M604, M85, P44		EGKK SIDs
DANDI	534103.71N 0035658.08W	L28, Q39, UL28		
DANWO	514722.81N 0014105.77W		X	
DAUNT	552508.18N 0045246.93W	Z246		EGPK SIDs
DAVAZ	515258.69N 0052553.59W		I	
DAVOT	572041.57N 0040528.57W	N560		
DAWLY	503427.31N 0032750.23W	L149, L620, N17, N864, N92	IAD	FRA (A): EGHQ FRA (D): EGHQ, EGHH, EGHI EGGD STARs - EGFF STARs
DAYNE	531419.12N 0020145.26W			EGCC STARs
DEGGE	513740.40N 0010009.12W	N27		
DEGOS	541121.19N 0065422.89W		AD	FRA (A): EGAA, EGAC FRA (D): EGAA, EGAC, EGEC Shannon FIR
DEJEM	534629.25N 0043636.41W		E	
DELBO	515236.92N 0011624.01W			En-route Hold - EGKK STARs
DENBY	533112.53N 0015740.39W	L975, N57, UL975		
DENOG	572553.37N 0014515.83W		I	
DESIG	533138.13N 0015333.70W	L603, L70, L975, UL70, UL975		EGBB STARs - EGNX STARs - EGGP STARs - EGCC SIDs/STARs
DESNA	503700.00N 0004700.31W	M185, UM185		
DEVAL	505125.35N 0012800.00E	N57		
DEVBI	604254.32N 0084610.49W		I	
DEXEN	531649N 0053000W	UY124, Y124		
DIBAL	524749.98N 0023000.00E	L603		
DIDZA	513627.71N 0012343.46W	L9, N14, N84, P86, T421		
DIGBI	551105.57N 0010301.45W	P15, UP17		
DIGMA	533859.86N 0033723.50W	M146, Z196		
DIGSU	520126N 0003805E	N866, P144, P5, UM185		
DIGUT	513901.29N 0011759.47W	N859, UN859		
DIKVU	511746.89N 0001901.84E	L9, UL9		
DIMLI	545647.47N 0063654.74W		I	
DINIM	510000N 0150000W			SOTA. See also AIP Ireland
DIPSO	530312.62N 0012038.61W			EGNX STARs
DIQSE	514800.46N 0051552.78W		I	
DISIT	520610.84N 0014240.91W	L151		EGKK STARs
DISVO	503931.38N 0010257.16W	L982		EGKK STARs
DITOB	521701.15N 0014927.08E	P25		EGGW STARs - EGSS STARs
DIXIB	511412.22N 0005053.53W			EGLF STARs
DIZIM	520223.59N 0031107.44W	N864, P69	I	EGGD STARs - EGFF STARs
DIZZE	535042.74N 0023232.91W			EGCC STARs
DOBEM	515210.52N 0025545.33W	N14		EGGD STARs - EGFF STARs
DOGAL	540000N 0150000W			NOTA. See also AIP Ireland
DOKEN	554054.59N 0020656.05E		I	
DOLAS	525842.96N 0010003.43E	L603, L90, M16, N110		
DOLOP	531250.90N 0033750.73W	UY124, Y124		EGBB STARs - EGNX STARs
DOLUR	492903.89N 0050326.07W		EX	FRA (E): EVEN FL FRA (X): ODD FL
DOMUT	501542.57N 0014008.65W	L980		En-route Hold - EGKK STARs - EGLL STARs - EGKB STARs - EGLC STARs - EGMC STARs
DONAX	532911.34N 0035740.24W	Q37		EGGP STARs
DONIB	554309.46N 0074144.04W	N562	IAD	FRA (AD): EGPI, EGEC

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
DONNA	514200.38N 0004437.04W			EGLL STARs
DOPEK	532303.95N 0005531.64W	L60		EGNM SIDs
DORKI	511633N 0001552W			EGLL STARs
DOSUN	600702.50N 0062338.51W		I	
DRAKE	501234N 0000434W	L151, N859, UM189, UY47, Y47		
DUCNO	515824.34N 0021851.65W	N92		
DUFFY	543053.42N 0055138.80W	L10, L15	ID	FRA (D): EGAE
EBOTO	522133.30N 0004139.63W	N601, P155, UN601		
ECCIT	520747.90N 0053843.73W	N18	I	
EDCOX	521259.68N 0002419.92W			EGGW STARs
EDFAR	522035.66N 0024652.02W	P17		
EDONU	561736N 0033341W	P600		
EDUXO	532424N 0011301W	L603		
EFMIH	523406.42N 0015353.84E	M604		
EGRUF	514327.72N 0034042.18W	Q63		
EKLAD	531513.70N 0024928.85W	UY53, Y53, Z197		EGCC SIDs
EKNIV	512425.62N 0003731.08E	M87, M91		
ELBOB	544358.15N 0074438.09W		AD	FRA (AD): EGAA, EGAC Scottish/Shannon FIR boundary fix. Inbound/ outbound fix for EIDL
ELBUS	552943.28N 0040435.87W	L612, UL612	X	FRA (X): ODD FL
ELDAX	502918.36N 0003930.42E	M8, N20, UM8		EGKK STARs - EGHI STARs - EGHH STARs - EGLF STARs
ELDER	503948.10N 0012013.93W	P83, UP83		EGKK STARs
ELEZE	524419.98N 0015600.48W			EGBB STARs
ELKOG	602647.63N 0093000.00W		I	Oceanic Landfall Fix for Reduced Lateral (RLAT) Boundary Points
ELLIQ	525706.48N 0030030.80W	N42		
ELMUD	550656N 0014024W	P18, UP18		
ELNAB	532211N 0011251E	P5		
ELNIF	515119.24N 0024921.61W	N14, P17	I	
ELNOD	532826N 0013524W	L603		
ELREW	520750.16N 0030638.15W			EGGD STARs - EGFF STARs
ELRIP	503744.67N 0025923.73W	N17	I	
ELSAN	564219.29N 0034357.58E		I	
ELSOF	512631.49N 0012846.13W	L607		
ELSOX	510000N 0140000W			SOTA landfall point. See also AIP Ireland
ELVOS	524201N 0011825W	T420		EGGP STARs - EGCC STARs
ELWIS	514547.16N 0023149.08W	L9		
← EMBOR	525748.00N 0011745.25W	N601, Q4, UN601		
EMGAT	550947.37N 0044511.90W	UN57	X	FRA (X): ODD FL
EMJEE	520354.62N 0015841.73W		X	
EMKAD	511449.88N 0004233.94E	L9, M91, UL9		
EMKUK	515837.47N 0012114.72W	L612, UL612, Y321		
EMLON	531220.44N 0023000.00E	L602, M79		
EMPER	490000N 0090000W			SOTA. See also AIP Ireland
EMWIP	500319.72N 0031908.98W	L22, P16	I	
ENCOD	531959.32N 0002423.92W	L60		
ENDEQ	532644.38N 0053000.00W	Q36		
ENHAQ	512422.69N 0014313.40W	M197	EX	
ENHEL	501354.15N 0031523.42W	N862, N90		
ENIPI	550110.78N 0031510.23W			EGPF STARs - EGPK STARs
ENJEX	520321.06N 0060227.78W	N83, P70	I	FRA (I): Shannon FIR

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
ENUKU	561400N 0033819W	P600		
ENZEN	525839.07N 0031157.12E	L60		
EPACE	511420.88N 0033111.46W	N91, P16	IAD	FRA (A): EGBB, EGVN, EGVA, EGTK, EGBP FRA (D): EGHQ
EPCAN	565532N 0020659W	P18	I	
EPLEF	495531.78N 0030044.62W	N90		
EPOXI	531958.70N 0032717.71W	L15, Q36		
EPUNA	503000N 0140000W			SOTA landfall point. See also AIP Ireland
ERAKA	580000N 0100000W		EX	Shanwick OCA
ERDOG	592003.14N 0012503.64W	Y905		
ERDUV	535234.66N 0041008.23W	M146, Z198		
ERGAB	540922N 0022312W	N601, UN601		
ERGUM	500725.13N 0014449.66W	L982		
ERING	513526.45N 0013643.00E	L179, Q63		
ERKEX	505240.62N 0011936.96E			EGKB STARs - EGLC STARs - EGMC STARs
ERKIT	540148.85N 0004948.85W	L602, N110		
ERLOT	551714.26N 0003505.84W	M982, P15		
ERNAN	541643.90N 0072333.97W		I	FRA (I) Shannon FIR
ERSON	562747.58N 0041823.67W	N560	ID	FRA (D): EGPE, EGPH, EGPK
ESHIN	533437.20N 0001813.05W	L46, N110		
ESKDO	551756.00N 0031215.26W	N601, UN601		EGPH STARs
ESTRY	533952.07N 0031542.28W			Traffic routing from/to EGNO/EGNH via WAL/PENIL.
ETARI	553000N 0150000W			NOTA. See also AIP Ireland
ETIGA	540239.17N 0044726.67W	Q39	ID	FRA (D): EGAA, EGAC
ETILO	573000.00N 0100000.00W		EX	Shanwick OCA
ETNAH	514126.45N 0031423.74W	N864, Q63	D	FRA (D): EGTE, EGVN, EGVA, EGBP
ETSOM	575331.02N 0093000.00W		I	Oceanic Landfall Fix
ETVAX	505806.99N 0003556.27E	T420		EGLL STARs
EVATA	510821.29N 0004557.52W			EGLF STARs
EVBEV	574709.60N 0074041.24W		I	
EVCOR	505614.13N 0070651.86W	N160	IA	FRA (A): EICK
EVEXU	504115.78N 0003440.86W	N20, N859		EGLC STARs - EGKB STARs - EGMC STARs - EGHI STARs - EGHH STARs - EGLF STARs
EVKAL	531546.99N 0002637.21W	L603		
EVMEK	514740.93N 0011217.66E	M84		
EVNAL	572430.67N 0093000.00W		I	Oceanic Landfall point
EVNAS	514004.25N 0002638.37E	L980		
EVRIN	514656.45N 0063347.61W		I	FRA (I): Shannon FIR
EVSEM	514350.05N 0012745.14W			EGHH STARs - EGHI STARs
EVSON	532127N 0013949W	M868, UM868		
EVTAR	552751.18N 0001521.15W	N96	EX	FRA (X): ODD FL
EVTES	510454.66N 0011257.07W	N514, N621		
EVTOL	521101.34N 0053114.02W	N12, N546	IA	FRA (A): EIDW
EXARO	510003.26N 0012249.54W	N514, Y321		
EXBUM	514829.61N 0031433.78W	P69		
EXFOB	502700.00N 0005500.00E			
EXKIC	504453.02N 0033654.36W	P16		
EXMOR	511042.76N 0032135.11W	N40, N92		EGGD SIDs/STARs - EGFF SIDs/STARs
FACTU	522102.96N 0021713.23W	P155	X	
FADZU	515256.10N 0035854.33W	L9	I	
FANFE	514620.78N 0035248.88W			EGGD STARs - EGFF STARs
FARJO	505616.27N 0033442.70W	P16		EGGD STARs - EGFF STARs
FEBWI	515327.13N 0031320.42W	P69		
FELCA	514930.86N 0033219.61W	L9, P4	ID	FRA (D): EGBJ
FENIK	554254.65N 0041730.91W	L612, P600	ID	FRA (D): EGPN, EGPT, EGQL

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ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
FERIT	513759.23N 0003221.20E	L179, M14		
FIFAH	515248.51N 0041534.00W			EGGD STARs - EGFF STARs
FIGZI	515734.77N 0023613.57W	L180, N91		EGBB STARs
FIMCA	501648.49N 0033000.82W	N22, P16	D	FRA (D): EGJJ, EGJB
FINDO	562209.05N 0032748.80W	P600	IAD	FRA (A): EGPD, EGPE, EGQS FRA (D): EGPE, EGQS
FINMA	515947.21N 0010313.34W	L15, M605, UM605		EGGW STARs - EGSS STARs
FITBO	521308.55N 0022412.55W	Y125		EGLL STARs
FIZED	533444.87N 0003917.40W	UL975		EGBB STARs - EGCC STARs - EGGP STARs - EGNX STARs
FONZU	504921.60N 0035358.82W		I	
FORTY	575700.26N 0003544.60E		I	
FOXLA	520157.13N 0041236.58W		I	
FOYLE	560834.13N 0042256.41W	N560	IA	FRA (A): EGPE EGPF SIDs/STARs
FRANE	512306.00N 0003739.40E	M604		EGKK SIDs
FYNER	560256.12N 0050655.19W	L602	IAD	FRA (A): EGPN, EGPT, EGQL FRA (D): EGPK EGPF STARs
GAJIT	512040.02N 0020000.00W		I	
GANKI	564548N 0025808W	P600		
GAPLI	500000N 0080000W		I	FRA (I): Shannon FIR SOTA UIR Boundary
GARMI	500000.00N 0012249.59W	N867, UN867		
GARVA	574118.00N 0042941.35W	Y906		En-route Hold
GASBA	515010.40N 0004852.85E	M189, M197, M604		
GASGU	511223.99N 0005736.02W	N514, N866		EGLL SIDs
GASKO	541328.97N 0015721.30W	P16, P18, UP18, UY250, Y250		EGCC STARs - EGGP STARs
GAVEL	592300.00N 0012421.67W	Y905		En-Route Hold
GELPO	483839.06N 0093009.45W	T290		
GETNO	535547.97N 0032947.06W	L46	E	
GIBSO	504459.08N 0023107.33W	L620, N16	EX	EGGW STARs - EGSS STARs - EGKB STARs - EGLC STARs
GIBSU	564547.28N 0031610.15E		I	
GIFJE	512941.00N 0020000.00E			
GIGTO	533801.06N 0040550.62W	L15, L70, M144, Q38, Q4, UL70, UQ4		EGCC STARs - EGNX STARs
GIGUL	543626.27N 0031009.89E	N44, P1		
GILDA	513605.68N 0003501.04E	L610, L620, M14		
GILTI	513413.01N 0020318.17E	L179		
GINGA	565530.15N 0093000.00W		I	Oceanic Landfall Fix
GINIS	532738.95N 0045128.61W	L975, UL975		
GIPER	510000N 0120000W			SOTA. See also AIP Ireland
GIPLO	533131N 0004723W	Y70		EGGP STARs
GIRLI	544240.51N 0014811.49W	P18, UP18		EGNT SIDs
GIRVA	551107.99N 0045346.67W	P600		EGPH STARs - EGPF STARs
GISOK	513008.62N 0050727.62W		I	
GITUS	502000.14N 0054159.89W		I	
GIVEM	552753.52N 0001452.78E	M90, P15, P58	EXD	FRA (X): ODD FL No connection to P15 from FRA FRA (D): EGNT, EGNV, EGPH, EGPG
GIVPO	531709.77N 0025209.02E	M604		
GIVUN	504358.45N 0004803.14W			EGHH STARs - EGHI STARs
GLESK	565400.00N 0024745.28W	P600	I	

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
GOBNU	512052.92N 0010625.12W	P73		EGLF STARs
GODLU	510958.44N 0011704.26E			EGKB STARs - EGLC STARs - EGMC STARs
GODOS	531456.55N 0032546.79E	M981, P1		
GODPA	525900N 0031001W	N864, UN864		
GOGSI	511727.16N 0010002.31W	N621		EGLL SIDs
GOKTU	501504.87N 0012244.57W	P88, UP88		
GOLES	533629.08N 0010500.37W	L975, UL975, Y70		EGCC STARs - EGBB STARs - EGNX STARs - EGGP STARs
GOLVO	542440.69N 0033507.52E	L7		
GOMOT	555509.60N 0003239.12W		IAD	FRA (AD): EGPN, EGPT, EGQL, EGNT, EGNV
GOMUP	570000N 0100000W		EX	Shanwick OCA
GONAN	450000N 0140000W	T16		
GOREV	560312N 0050000E		IEX	FRA (I): ABV FL 285 FRA (EX): BLW FL 285 Copenhagen FIR
GOSAM	554719.18N 0041202.10W	P600	IAD	FRA (AD): EGEC EGPH SID
GOTGO	552506.55N 0020850.44E	P5	EX	FRA (X): EVEN FL
GOTNA	543541.43N 0053552.85W	P600	IAD	FRA (A): EGPF, EGPG, EGPH, EGPK FRA (D): EIDW
GOXUL	512132.02N 0001033.49W	L9, UL9		
GRICE	561148.00N 0034107.79W	N601, P600	I	EGPH SIDs/STARs - EGPF STARs
GROVE	522337.76N 0015543.72W			EGBB STARs
GUBJE	520227.50N 0053242.80W	N18, N24, N83	I	
GUNPA	610000N 0000000E			UIR Boundary
GUNSO	490310N 0114606W			SOTA. See also AIP Ireland
GUNTU	533537.40N 0030953.64W	L70, N864, UL70, UN864, Z196		
GUSSI	571246.93N 0040726.86W	N560		En-route Hold
HABCI	511401.12N 0001644.96E	L722, P2		
HALIF	534406.31N 0013450.10W	L46, L613, UN590		
HANKY	510645.98N 0010751.00W			EGHH STARs - EGHI STARs - EGLF STARs
HARDY	502815.75N 0002928.04E	M605, UM605		EGKK SIDs
HASTY	504342.46N 0003200.37E	M189		
HAVEN	552740.00N 0025946.67W	Y96, Z250	ED	FRA (D): EGPF, EGPK EGPH STARs - EGPF STARs
HAWFA	513208.71N 0023812.55W	L607, P4	A	FRA (A): EGHI, EGLF, EGMC, EGLK, EGTF, EGVO, EGHL, EGTD EGGD SIDs
HAWKE	502226.57N 0000524.77E	L612, M189, UL612, UM189		
HAZEL	510019.03N 0005904.06W	L620, L89		EGLL STARs - EGLF SIDs
HEKXA	513103.61N 0012026.55W	N14, Q63		
HEMEL	514820.00N 0002509.78W	L610, M184, Q3, T420, UM184		EGBB STARs - EGNX STARs
HERON	552035.29N 0050000.00W	N562, Z246, Z247		
HILLY	512006.04N 0001437.38E			EGLL STARs
HOLLY	505312.18N 0000542.23W			EGKK STARs
HOTXI	511506.35N 0020000.00W		X	
IBGON	510047.24N 0004758.48W			EGLF STARs
IBNID	503143.71N 0014708.46W	M195		
IBOLU	562310N 0030803W	N864	ID	FRA (D): EGPD
IBRAR	533154.28N 0034110.87W			EGCC STARs
IBROD	563000N 0100000W		IAD	FRA (I): NOTA FRA (AD): EGPU NOTA UIR Boundary

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
IBTES	542625.20N 0050315.12W	M148		
ICCIN	513936.80N 0024458.74W	N92, Q63		
ICOSA	513748.09N 0035210.14W		I	
ICTAM	513137.37N 0010948.12W	L179, L722, M197, N27, Q295, Q63, T421		EGGD STARs - EGFF STARs
IDDEC	542803.59N 0000324.39E			
IDESI	515351.74N 0015308.08E	M40, P49, P7, Y6		EGGW STARs - EGSS STARs
IDEXA	532814N 0050951W	L975, UL975		
IDGAS	541422.81N 0043329.47W	M148		
IDITU	513224.79N 0005837.35E	Q63		
IDKOL	540543N 0015945W	P18, UP18		
IJALA	511658.25N 0062553.43W		I	
ILLOC	515517.20N 0001056.60E			EGGW STARs
ILZIC	503518.71N 0033844.20W	P16		
IMVUR	511028.90N 0003156.40W	N63		EGKK SIDs
INBAS	564200.00N 0041459.11W	N560	IA	FRA (A): EGPK
INBOB	553624.86N 0050000.00E		IX	FRA (I): ABV FL 285 FRA (X): BLW FL 285 Copenhagen FIR
INDOX	511839.55N 0010114.04W			EGLF STARs
INFEC	513237.73N 0041130.99W		I	
INFUS	515725.85N 0031221.35W	P69		
INGUR	514241.67N 0025136.75W			EGGD STARs
INKEK	503853N 0003209W	N859		
INKOB	535216.19N 0042414.43W	Q39	X	FRA (X): ODD FL
INLIM	515422.98N 0011912.90E			EGKB STARs - EGLC STARs
INNUF	590705.41N 0080234.75W		IAD	FRA (AD): EGPO
INPIP	545235.54N 0025346.10W	N601, UN601		
INPUT	551818.30N 0043905.37E			
INREV	550857.44N 0030539.46W	N601, UN601		
INVON	552702.19N 0021835.87W	N110	EX	FRA (X): ODD FL
IPDOR	552239N 0031545W	N601, UN601		
IPKUS	513152.43N 0002318.58E	M40, Q63		
IPNOX	541340N 0024222W	N57, UN57		
IPRIL	514028.81N 0001335.35W	M197, P72		
IPSAD	552145N 0024114W	Y96		
IPSET	543105.63N 0052708.92W	M146, P6		
IPSIR	540454N 0015657W	P17, UP17		
IRKUM	525947.90N 0052239.45W	L18		
IRKUN	505516N 0012800E	M91		
ITSUX	560259.94N 0033000.00E		I	
ITVIP	511713.75N 0010312.30E	L10, M85, Q70		
IVLOD	530746N 0030919W	N864, UN864		
IXURA	520405N 0012540W	L612, UL612		
IZLAW	510325.45N 0032251.31W			EGGD STARs - EGFF STARs
JACKO	514408.65N 0012536.00E	L980, M189		EGKB STARs - EGLC STARs - EGMC STARS
JETZI	513027.09N 0035211.94W		I	
JOZMA	503738.14N 0035635.42W		I	
JUMZI	521943.58N 0002430.31W			EGGW STARs
KAMJU	523450.15N 0023150.54W		X	
KAPEX	504029.70N 0015059.80W	N621		
KARNO	525339.55N 0025354.05W	N58, N862	E	
KATHY	503113.59N 0012000.23W	L89, L980, P83, UP83		En-route Hold - EGKK STARs - EGLF STARs
KEGUN	531132.90N 0030901.35W			EGGP STARs
KELLY	535419.47N 0042150.52W	L10	EX	FRA (X): ODD FL

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
KEMPY	520738.51N 0003845.57E			EGSS STARs
KENET	513113.63N 0012718.00W			EGHH STARs - EGHI STARs - EGKB STARs - EGKK SIDs
KEPAD	524835.41N 0022844.28W	L15, L151		
KESEG	600058N 0060056W		IAD	FRA (AD): EGPA
KESIX	565700N 0140000W			NOTA landfall point. See also AIP Ireland
KIDLI	514617.00N 0012140.87W	L151, N859, UN859		EGHH STARs - EGKK STARs - EGHI STARs
KIPWI	520757.35N 0031041.87W	N864		
KISWO	523727.16N 0030824.49W	N864	ID	FRA (D): EGFF, EGGD, EGVN, EGBJ, EGBP
KITFE	514407.29N 0020715.54W	L9		
KLAKI	502216.59N 0030754.14W	L149, N40	IA	FRA (I): ODD FL FRA (A): EGJJ, EGJB
KLONN	582324.44N 0024944.12E		I	FRA (I): Polaris FIR
KOBBI	514113.77N 0000918.34W	M185, M197, UM185		
KOGAD	493000N 0150000W			SOTA. See also AIP Ireland
KOKAL	585734.82N 0025338.21W	N560	IAD	FRA (AD): EGPB, EGQS
KOKIB	543000N 0140000W			NOTA landfall point. See also AIP Ireland
KOLID	533425.70N 0024520.23W	L70, UL70, UP6, Y70		
KONAN	510750.75N 0020000.00E	L607, L9, M84, UL9		EGKB STARs - EGLC STARs - EGKK STARs
KOPUL	513231.76N 0010813.84E	L610, Q60, Q63		
KORXA	514214.41N 0044718.68W		I	
KOTEM	500000.00N 0010313.83W	M184, UM184		
KRAGY	520710.73N 0045655.16W		I	
KUBAX	525633.93N 0025713.20E	N866, Z150		
KUGUR	553000N 0100000W		I	FRA (I): NOTA NOTA UIR Boundary
KUKIS	514156.23N 0030436.53W			EGFF STARs
KUMIL	503431.39N 0013638.81W			EGKK STARs - EGLL STARs
KUNAV	503054N 0010356E	N20, T421, Y8		EGKK STARs
KUVOX	580458.86N 0073623.54W		IAD	FRA (AD): EGPO
KUXEM	531511.07N 0024046.76W	P17, UP17		EGCC SIDs
LAGAV	565335.12N 0041210.37W	N560	IAD	FRA (A): EGPH FRA (D): EGPF, EGPG
LAKEY	541420.00N 0025852.38W	L612, UL612		EGCC STARs - EGGP STARs
LAMIX	531828.66N 0004055.52W	L603, UT29		EGNM SIDs
LAMMA	555130.00N 0024603.39W		I	
LAMRO	570151.49N 0033309.09E		I	
LAMSO	524358.43N 0025939.68E	L603		
LANAK	554200.87N 0035618.64W			EGPF STARs
LANON	522551.90N 0042220.94W	L18	IA	FRA (A): EIDW, EIWT, EIME
LANPI	521115.07N 0052329.75W	Q63	I	
LANVA	534347.86N 0042637.51W	M145		
LAPRA	520707.18N 0011236.45E	M604, P25, P49		En-route Hold - EGGW STARs - EGSS STARs
LARCK	505441.83N 0002647.93E			EGKK STARs
LARDI	533616.09N 0033057.16E	L74, N866, P43		
LARGA	545149.54N 0040911.97E	M604, P144	E	
LARLA	492241.13N 0070715.22W			
LASNO	483554N 0090000W	T9		SOTA. See also AIP Ireland
LATMU	531525N 0020522E	P144, P48		
LAVRI	511549N 0003449E	UL9		
LAWJO	501645.92N 0021943.34W	N866		
LEDGO	511423.78N 0073404.65W	L37, N160	I	FRA (I): Shannon FIR
LEGRO	531934.86N 0013045.89E	L602		

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
LEKCI	513440.46N 0025314.66W	L180, P4		EGFF SIDs
LELDO	534259.53N 0040507.00W	L28, M145, UL28, Z196		
LELNA	495856.80N 0020623.42W	N621, N63, Z171		EGJB STARs - EGJJ STARs
LEMGU	522421.56N 0052236.38W	M17	A	FRA (A): EIDW, EIME, EIWT
LESLU	510000N 0080000W		I	FRA (I): Shannon FIR SOTA UIR Boundary
LESNI	573233.14N 0011622.40W	P600	IAD	FRA (AD): EGQS
LESRA	552307.98N 0050000.00E		IEX	FRA (I): ABV FL 285 FRA (EX): BLW FL 285 Copenhagen FIR
LESTA	524427.09N 0010419.42W	N601, P6, UN601, UP6, UY250, Y250		EGGP STARs - EGCC STARs
LIBBA	554326.21N 0034443.21W			EGPF STARs
LIBSO	533129.33N 0000536.32E	L46, L90, UL975, UT29		EGCC STARs - EGBB STARs - EGNX STARs - EGGP STARs
LIFFY	532848.28N 0053000.00W	L975, UL975		
LIFOX	495220.46N 0031022.75W	P16		
LIMKA	543026.50N 0051311.22W	M148		
LINDY	512814.12N 0010257.19W	L151, UL9		
LIPGO	530350.13N 0053000.00W	L18	I	FRA (I): Shannon FIR
LISBO	543130.00N 0060524.10W	L603		
LISTO	530835.93N 0021156.54W	L612, P18, Q4, UL612, UQ4, UY124, Y124, Z197		EGLC STARs - EGGW STARs - EGSS STARs - EGCC SIDs - EGMC STARs - EGKB STARs
LIVSU	514148.74N 0005057.72E	L980		
LIZAD	493525.24N 0041948.55W		EX	FRA (X): ODD FL EGJJ SIDs
LOFFO	515012.00N 0003556.37E			EGGW STARs - EGSS STARs
LOGAN	514451.32N 0013642.58E	L608, L980, P7		En-route Hold - EGLC STARs - EGGW STARs - EGSS STARs - EGKB STARs - EGMC STARs
LOMON	560345.57N 0043447.86W			EGPF SID
LOMVO	531615.87N 0051045.82W	UY124, Y124		
LONAM	535022.32N 0035633.03E	L7, M90, N610, P43		
LOREL	520050.20N 0000309.52W			EGGW STARs - EGSS STARs
LORKU	495618.10N 0022215.64W	M195, N866		
LORTA	553145.72N 0035630.83W	UN590	E	
LOVEL	531506.00N 0021627.98W	L612, UL612		
LUCCO	552048.54N 0043341.11W	Z248, Z250		EGPK SIDs
LUCSA	523706.60N 0025656.18W	N862	A	FRA (A): EGFF, EGGD
LUFMA	510448.01N 0031438.16W	N40		
LUGIS	500000.00N 0005220.10W	M185, UM185		
LULOX	502200N 0080000W		I	FRA (I): Shannon FIR SOTA UIR Boundary
LUSEN	603000.00N 0100000.00W		EX	Shanwick OCA NOT AVAILABLE FOR FLIGHT PLANNING
LUSIV	554001.54N 0041440.50W	L612	I	EGPF SIDs
LUSOD	535622.70N 0041926.37W	M146	E	
LUTIP	531521.89N 0044415.59W	UY124, Y124		
LUTOV	551421.66N 0100000.00W		IAD	FRA (I): NOTA FRA (AD): EGAE NOTA UIR Boundary
LUXIV	510510.63N 0004657.06W			EGLF STARs
LUXTO	520830.66N 0020338.38W	N92, N93	X	
LYNAS	532633.02N 0042000.00W	L975, UL975		
MADAD	555447.35N 0014402.48W	P18	IA	FRA (A): EGPD

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
MAGEE	544729.53N 0053630.02W	M147, M148	I	
MAKUX	535829.90N 0045227.89W	L15, Q38	IAD	FRA (A): EGBB FRA (D): EGAA, EGAC (RNAV 1 FL 285- / RNAV 5) EGBB STARs - EGNX STARs
MALUD	532448.17N 0033630.30W	L15, L975, Q37, Q38, UL975, Z195		EGGP STARs - EGCC STARs - EGBB STARs - EGNX STARs
MAMUL	532505.20N 0011648.45W	L60, L603, L613, UY250, Y250		
MANGO	514133.88N 0004725.58E	L620, L980		
MANIG	494707.01N 0031533.72W		X	FRA (X): ODD FL
MARUK	501446.56N 0020420.41W	M195, N621		
MASOP	540921.02N 0042115.26W	M148, Z198	IA	FRA (A): EGAA, EGAC (RNAV 5)
MATCH	514645.20N 0001500.00E	P144, Q295		EGGW SIDs
MATIK	610000N 0080400W		EX	Reykjavik OCA
MATUT	541017.23N 0043821.89W	M147		
MAVET	540257N 0033104W		X	FRA (X): ODD FL NTFSR Fix
MAXIT	511459.08N 0003342.83W	Y803		EGLL SIDs
MAYLA	513740.76N 0004311.80E			EGMC STARs
MEDOG	515701.32N 0033257.83W		I	
MEGEL	522057.94N 0020425.20E	P25, Z150		EGGW STARs - EGSS STARs
MEZRE	500200.00N 0001200.00W			
MIDJO	524754.42N 0024827.24W	N42, P17	X	
MIMFO	511358.23N 0002930.43E	Y312		EGKK SIDs
MIMKU	560000N 0100000W	N562	I	FRA (I): NOTA NOTA UIR Boundary
MIMVA	530603.21N 0031812.63E	L602		
MIPVO	521329N 0013609E	P25		
MIRSI	533216.69N 0024242.16W			EGCC STARs
MITSO	533906.86N 0005337.75W	L46		
MIVLA	504630.00N 0011558.02W			EGHH STARs - EGHI STARs
MOCHA	593255.50N 0012159.47W	Y905	I	
MOCQO	522748.08N 0032037.20W	P16	A	FRA (A): EGGP, EGNR, EGCC, EGNM, EGNH, EGNO
MODGO	602642.86N 0073955.20W		I	
MODMI	511400.99N 0002909.99W	M185, UM185		EGLL SIDs
MOFWE	524839.37N 0031323.42W	P16		
MOGLI	521830.00N 0001608.63W	L613, Q3, UP6		
MOGLO	553000N 0140000W			NOTA landfall point. See also AIP Ireland
MOGMO	532443N 0011251W	L60		
MOGTA	531008N 0023810W	UY124, UY53, Y124, Y53		
MOKBU	511610.10N 0012913.78E	Q70		
MOLAK	543648.90N 0093022.73W		I	FRA (I) Shannon FIR
MOLIX	524919.21N 0030407.22E	L17		
MONAV	582306.02N 0013811.02W	Y905	IAD	FRA (AD): EGPD, EGQS
MONTY	525334.00N 0031026.44W	N864, P16, UN864, UP16	X	FRA (X): EVEN FL EGCC SIDs/STARs
MOPAT	512955.20N 0070537.23W		I	FRA (I): Shannon FIR
MORAG	524510N 0053000W		I	FRA (I): Shannon FIR
MOREZ	511233.91N 0002948.60W			EGGW STARs
MOSUN	515337.69N 0022610.09W			Tactical Way Point only for use by flights arriving and departing EGBB via the adjacent ATS Route structure.
MOTOX	505727.52N 0012800.00E	L15		
MOVEN	520342.81N 0014846.72W			EGHH STAR - EGHI STAR

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
MUCTE	521031.13N 0011225.43E			EGGW STARs
MULYM	514917.14N 0024657.01W	N91		
NAKID	494254.09N 0043722.57W		I	
NALAN	610000N 0060000W		EX	Reykjavik OCA Scottish/Reykjavik UIR Boundary Fix.
NALAX	532859.89N 0002405.94E	L46, L602		
NANEV	573428.67N 0022713.91W	Y904		
NANTI	530814.54N 0023400.51W	L8, UL8, UY53, Y53		EGGP SIDs/STARs
NANUM	520134.97N 0013747.00W	L151, L8		Oxford Airways departure joining CAS at KENET
NAPEX	531222.64N 0005139.78W	M16		
NATEB	550218.41N 0014154.13W	M79, M981, N610, N97, P15, P18, UP16, UP18, Y96		
NATKO	532711.99N 0043806.92W	L975, UL975		
NAVEL	553513.43N 0005030.70E		I	
NAVPI	523249.58N 0025025.80E			
NAVSO	551322.02N 0034848.63W	L612, UL612		
NAXAT	514721N 0015756W			EGVN Departures for L9
NAXIL	565724N 0024326W	P600		
NEDEX	515237.17N 0012819.67W	L151		EGHH STARs - EGHI STARs
NEDUL	503958.00N 0013251.86W	N17, Q41, Z171		EGHH STARs - EGHI STARs - EGKK STARs
NELBO	542924.15N 0051810.39W	P6, P620	IAD	FRA (A): EGAB, EGAE FRA (D): EGPK
NELKO	504214.18N 0005717.79W	M184, UM184		EGKK STARs
NELSA	535148.00N 0021105.27W	N601, UN601		EGNM SIDs
NEPNA	512958.33N 0002656.55E			EGGW SIDs
NERTU	490000N 0140000W			SOTA landfall point. See also AIP Ireland
NESDI	570718.00N 0040848.32W	N560	IA	FRA (A): EGPF, EGPG
NETKI	550000N 0140000W			NOTA landfall point. See also AIP Ireland
NETVU	502445.00N 0002854.00E			EGKB STARs - EGKK STARs - EGLC STARs - EGMC STARs
NEVIL	500000.00N 0002205.64W	M189		EGKB STARs - EGKK STARs - EGLC STARs - EGMC STARs
NEVIS	564143.27N 0043240.70W		IAD	FRA (AD): EGPU, EGQS
NEVRI	540406.03N 0061611.42W	N34		
NEXUS	561243.34N 0015040.99W	P18	IAD	FRA (A): EGNT, EGNV FRA (D): EGPD, EGNT, EGNV
NIBDA	510052.20N 0005501.48W	L620, N14		
NIBOG	550000N 0100000W		I	FRA (I): NOTA NOTA UIR Boundary
NICXI	520046.40N 0050317.78W	L9, M17, N546, Q63	ID	FRA (D): EGGD, EGFF
NIDGO	505657.98N 0004607.77W			EGLF STARs
NIGIT	511846.96N 0011014.71W	L18, P2		EGKK STARs - EGLL STARs - EGGW STARs - EGSS STARs
NILAV	450000N 0132500W	T13		
NILON	513546.46N 0003803.93E	L610, M40		
NIMAT	535754.10N 0054431.75W	P620	I	FRA (I) Shannon FIR
NINEB	540344.27N 0040741.84W	M148	IA	FRA (A): EGAC
NINEX	585119.55N 0093000.00W		I	Oceanic Landfall Fix
NIPIT	542709.29N 0082409.78W		I	FRA (I) Shannon FIR
NIRIF	521755.87N 0053404.33W	N12	I	FRA (I): Shannon FIR
NISBI	532129N 0003921W	L60		
NISKA	541500.00N 0023033.35W			EGPF STARs - EGPK STARs
NIVKO	505605.77N 0003227.54E	T421		

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
NIVUN	573411.91N 0040812.72E		I	FRA (I): Polaris FIR
NOBDO	550453.28N 0024747.63E	N44, UP59		
NOCAD	535836.63N 0045913.06W	Y911		
NOKIN	530436.00N 0025258.25W	N38, N862, P16, P17, UP16, UP17		EGBB STARs - EGNX STARs
NOMSU	532806.04N 0032603.79W	Q39, Q4, UQ4		
NONVA	513846.45N 0012144.31E	M84		
NOPKI	540515.93N 0042608.29W	M147		
NORBO	553545.36N 0044543.46W	L186, T256, Y96	I	EGPF SIDs
NORLA	513708.84N 0065211.29W		I	FRA (I): Shannon FIR
NORRY	512847.11N 0010724.13W	L9, Q41, UL9		EGGW STARs - EGSS STARs
NOSLO	532253.72N 0033841.89W	Q36, Z197		
NOTGI	503510.14N 0002502.94W	N20		EGHI STARs - EGHH STARs - EGLF STARs
NOVBA	561200N 0031051W	N864		
NOVMA	510211.79N 0004514.92W	L620		EGKK SIDs
NOZHU	494141.05N 0034552.48W		E	FRA (E): EVEN FL
NUBRI	512016.68N 0011355.99W	L18, N14, Y321		EGHH STARs - EGHI STARs
NUCHU	512808.10N 0014035.43W	L18, L607, P73, Q295	X	
NUDNA	520354.90N 0005016.56E			EGKB STARs - EGLC STARs
NUGBO	515821.96N 0000412.09W	M183		EGSS SIDs
NUGRA	530146.43N 0021813.52W	Q36, Q38, UY53, Y53		EGLL STARs - EGNX STARs
NULGU	505216.60N 0015939.01W	N19		
NUMPI	540840.17N 0053536.26W	P620		
OBOXA	541035.55N 0015420.13W	P17, UP17, UY250, Y250		
OBUBA	574640.41N 0073319.04W		IAD	FRA (AD): EGPL
OBUNI	535440N 0024433W	L612, UL612		EGGP STARs
ODIGI	551144.28N 0032539.03W			EGPF STARs
ODMIX	565812.06N 0012802.95E		I	
ODMOS	544526.32N 0030252.23E	N44, P58, UL975		
ODPEX	592435.66N 0093000.00W		I	
ODREP	500000.00N 0013007.46W	P88, UP88		
ODROB	513915.11N 0015445.17E	Y4		
ODUKU	513531.78N 0001715.47E	M84		EGLC SIDs
ODVIK	510957.40N 0002909.33E	Y311		EGKK SIDs
ODVOD	520755.98N 0000852.98E			EGKB STARs - EGLC STARs
OFCOT	570253.47N 0024733.79W		I	
OFJES	521302.03N 0003929.77E			EGGW STARs
OFSOX	520145.18N 0051143.62W	L9, N83	IA	FRA (A): EIWF
OGTAW	524807.11N 0025512.39W	N862	I	
OGTUG	534012N 0050850W	L70, M144, UL70		
OKPAL	564921N 0020435W	P18	I	
OKSAW	514215.31N 0014108.54W	L9, N14, Q60	EXD	FRA (D): EGKB, EGLC, EGMC
OKTAD	514904.47N 0023246.30W	N14, N92	ID	FRA (D): EGLL
OKVAP	505748.96N 0011955.98E			En-route Hold - EGKB STARs - EGLC STARs - EGMC STARs
OLGUD	504356.27N 0013121.75W	N63		
OLNEY	520740.22N 0004403.32W	L608, T420		EGGW SIDs
OLPOP	540532N 0023208W	N57, UN57		
OMOKO	485020.30N 0120000.00W	T13, T16		SOTA. See also AIP Ireland
ORIST	500000N 0015042W	L982, Y110		EGJB SIDs - EGJJ SIDs
ORSUM	570307.47N 0051741.00W		IAD	FRA (AD): EGPF, EGPN, EGPO, EGPT, EGQL, EGQS

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
ORTAC	495957.02N 0020018.02W	Q41		EGJA Arrivals - EGJB SIDs/STARs - EGJJ SIDs/ STARs
ORTAV	593000.00N 0100000.00W		EX	Shanwick OCA FIR/UIR Boundary
ORVIK	593817.75N 0004008.65E		I	FRA (I): Polaris FIR
ORVUL	551038.52N 0041007.02W	T256		
ORZEB	512425.86N 0022753.73W	P2	A	FRA (A): EGLL, EGWU, EGKK En-Route hold - EGFF STARs
OSBON	610000N 0050000W		EX	Reykjavik OCA Scottish/Reykjavik UIR Boundary Fix.
OSBOX	564823N 0124806W			NOTA. See also AIP Ireland
OSDEB	505654.53N 0002447.85E			EGKK STARs
OSKOT	522029.96N 0020330.27W			EGBB STARs
OSLEL	572858.48N 0013158.07W	P600	I	
OSMEG	550826N 0040603W	T256, UT256, Z248, Z249		
OSNUG	505336.26N 0020013.95W	N514		
OSPOL	500900.00N 0001107.84W	M189		EGKB STARs - EGKK STARs - EGLC STARs - EGMC STARs
OSSEP	520317.32N 0024820.85W	P17	I	
OSWEZ	524832.27N 0030915.07W	N864		
OTBED	531716.71N 0000154.61E	L60, Y70		EGCC STARs
OTBUN	551650.10N 0022600.00W	Y96		
OTLAB	552436.05N 0013245.59E	UP59	EX	FRA (X): ODD FL
OTMET	504055.06N 0023053.37W	N17	XA	FRA (A): EGLF EGKK STARs - EGLL STARs
OTSID	511022.54N 0001351.01W	N16		
OVDAN	575320.66N 0001818.06E	P600	IA	FRA (A): EGPD
OVZOG	505106.32N 0071529.77W	L37	IA	FRA (A): EICK
OXCUD	515423.03N 0024906.11W	L180, P17	I	
OXDUF	520636.20N 0001900.00E			EGGW STARs
OXLOW	510154.80N 0020000.00W	M140, M142	EX	
OZBOC	521523.66N 0021104.56W		X	
OZRAT	534835.01N 0044931.86W		I	
OZZIL	513821.34N 0022549.17W	N80, Q63	ID	FRA (D): EGLF, EGHI, EGTK
OZZOT	514028.93N 0000952.93W			EGGW STARs
PAAVO	515149.03N 0005115.76E	M604, Q295		
PACSE	512226.78N 0030650.70W	N862, N92	IAD	FRA (A): EGHQ FRA (D): EGVN, EGVA, EGBP
PAVLO	505604.77N 0055344.28W		I	
PAWDE	511453.21N 0000216.94E	P2		
PEDIG	524447.59N 0014309.97W	M605, Y53		EGGP STARs - EGLC STARs - EGGW STARs - EGSS STARs - EGMC STARs - EGKB STARs
PEGZA	513730.55N 0030609.50W			EGGD STARs
PELET	543912.33N 0032551.54E	L7, P58		
PEMOB	520837.77N 0050941.13W	M17	I	
PEMOS	610000N 0040000W		EX	Reykjavik OCA Scottish/Reykjavik UIR Boundary Fix.
PENIL	533657.47N 0033948.72W	L10, L28, L60, L70, M144, UL28, UL70		EGGP STARs - EGCC STARs
PENUN	570635.65N 0045010.79E		I	FRA (I): Polaris FIR
PENUX	510632N 0003412E	M140		
PENWU	514630.59N 0043510.52W		I	
PEPEG	540106.49N 0043105.30W	M146		
PEPIN	595931.24N 0000054.01E		IAD	FRA (I): Polaris FIR FRA (AD): EGPB
PEPIS	511147.95N 0011437.22W	Q41, Y321		EGHH STARs - EGHI STARs - EGLF STARs

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
PEPOD	541616.31N 0053409.26W	L15, L603, Q38	ID	FRA (D): EGAB
PEPUL	521603.00N 0015314.37W	L151, N93, Y322		EGHH STARs - EGHI STARs
PEPZE	523746.62N 0031952.98W	P16	I	EGGP STARs
PERUP	514233.95N 0025632.40W			
PETIL	555619.93N 0050000.00E		IEX	FRA (I): ABV FL 285 FRA (EX): BLW FL 285 Copenhagen FIR
PETOX	573333N 0014902W	Y905		En-Route Hold
PEWBI	511851.01N 0050146.28W		I	
PIBUX	513458.88N 0014657.42E	L179, Y4		
PIGOT	522942.57N 0010407.08W			EGNX STARs
PIKIL	560000N 0150000W			NOTA. See also AIP Ireland
PILIP	502003.05N 0010026.13W	M184, N6, UM184, UN6		
PIPAR	560700.00N 0031205.74W	N864	IA	FRA (A): EGPD
PIPEM	580922.55N 0034418.86W		I	
PIPIN	523636.06N 0005630.04W	N601, UN601		
PIXAM	520447N 0015650E	P44		
PIXUP	520151N 0010640W	L15		
POMAX	513137.63N 0020452.42W			EGGD STARs
POTON	520504.32N 0002537.78W	L608, N601, UN601		
PUFAX	521852.01N 0012042.20W			EGBB STARs
QUSHI	530629.30N 0014629.41W			EGCC STARs & RNAV5 DCT
RAMID	525727.79N 0023000.00E	L17		
RAMOX	533936.72N 0045022.41W	L70, M144, UL70		
RAPIX	512638.39N 0020000.00E	L610		
RAPUM	545518.28N 0015258.08W	UP16		
RATKA	493000N 0080000W			SOTA UIR Boundary
RATLO	515929.13N 0014055.18E	M197, P44		
RATSU	610000N 0100000W		EX	Reykjavik OCA
RAVDI	592957.26N 0012242.18W	Y905		
RAVLO	525501.21N 0030853.81E	Y70		
REDFA	520652.75N 0022916.81E	L620, M183, M197, P137		
REFQI	512846.15N 0012804.33W	P73		
REGSI	525118.97N 0000151.04E			
REKNA	561029.10N 0033000.00E		I	
REMSI	535736.81N 0034931.80W		I	
RENEQ	541424.84N 0041759.87E	P38, P39, P40, P58, UP59, Y96		
RESNO	550000N 0150000W			NOTA. See also AIP Ireland
RETSI	523042.42N 0025232.93W	Y125	A	FRA (A): EGLL
REXAM	530400.00N 0030937.21W	N42, N864, UN864		EGGP SIDs - EGCC STARs
RIBEL	540058.00N 0021722.76W	N601, P16, UN601, UP16		EGPF STARs - EGPK STARs - EGGP STARs
RIGVU	584735.84N 0020917.84E		I	FRA (I): Polaris FIR
RIMOL	573233.45N 0040229.55W	N560, Y906	IAD	FRA (AD): EGPC, EGPO, EGPD, EGEO
RIMTO	534303.25N 0012558.78W	L46, UY250, Y250		
RIMUP	505149.08N 0004339.11W			EGLF STARs
RIMVU	534511.14N 0050824.68W	M145		
RINGA	542354.44N 0053415.66W	L10, Q39	I	
RINIS	515429.66N 0021920.82E	M40		EGGW STARs - EGSS STARs
RINTI	510158.33N 0013655.91E	L10		
RIPNO	545632N 0034415W	T256, UT256		
RISDU	573631.42N 0014823.78W	Y905		

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
RISIN	514139.05N 0012627.64W			EGHH STARs - EGHI STARs
RISLA	530151.39N 0025312.29W	L15, N862		
RITSI	554209.36N 0013925.50W	P18	I	
RIVOT	562428.71N 0004637.49E		IAD	FRA (AD): EGPD
RIXUN	610000N 0030000W		EX	Reykjavik OCA Scottish/Reykjavik UIR Boundary Fix.
ROBBO	555322.96N 0045436.56W			EGPF SIDs/STARs
ROBEM	552733.36N 0010113.69W	M982, P38, UM82, UP16	EXA	FRA (X): EVEN FL to UP16, ODD FL to M982, P38 FRA (A): EGPF, EGPH, EGPK, EGPG
ROBOP	542708.56N 0052005.35W	M146, M147		
RODEL	503000N 0150000W			SOTA. See also AIP Ireland
RODNI	514256.50N 0005141.83W	N27		EGGW SIDs - EGLC SIDs
RODOL	531417N 0015143W	L28, P6, UL28, UM65, UP6		
RODSI	544755.62N 0025335.05E	P1, P58		
ROGAG	531405.79N 0001745.46W	L603		
ROGBI	521746.63N 0012006.37W			EGLC STARs - EGGW STARs - EGSS STARs - EGMC STARs - EGKB STARs
ROKAN	533947.50N 0031119.84E	M604, M982, N96, N97, P1, P40, P48		
ROKKE	510411.95N 0000241.82E	M140, M142		
ROKSI	503012.62N 0021251.28W	N866		
ROKUP	530102.13N 0013057.29W			EGNX STARs
ROLEX	532542.14N 0035803.85W	L975, UL975		EGGP STARs
ROLUM	541819.85N 0031831.29E	M90, P1, P13		
ROPAL	550816.53N 0035642.67E	UL975	EX	FRA (X): EVEN FL
ROPMU	520614.46N 0002917.16E			En-route Hold - EGLC STARs - EGKB STARs
ROSUN	534008.09N 0022057.26W			EGCC STARs
ROTEV	540143.72N 0060358.39W	P600	IA	FRA (I) FRA (A): EGEC Shannon FIR
ROTNO	505126.07N 0004641.20E	T420		EGLL STARs
ROVLA	552338.18N 0042824.96W	T256, UT256	X	FRA (X): ODD FL
ROVNI	535313N 0003901E	M79, P39, UL975		
ROXAT	532449.03N 0030000.00E	M981		
ROXOG	501558.29N 0013344.41W	L982, P87, UP87		
RUBEX	551912.14N 0065607.21W	N552	I	
RUDMO	504639.60N 0010127.00W			EGHI STARs - EGHH STARs - EGLF STARs
RUGER	532857.75N 0032652.40W			EGGP STARs
RUGID	572208.80N 0045354.84W		IAD	FRA (AD): EGPL, EGPN, EGPT, EGPU, EGQL
RUHUN	513539.92N 0033541.28W	L607	IA	FRA (A): EGVN, EGVA, EGTK, EGBP
RUKOH	521242.83N 0054417.55W	N18	I	FRA (I): Shannon FIR
RULAV	532614.35N 0051001.25W	Q36		
RUMKE	521735.37N 0025832.48W	N862		
RUXIN	561655N 0120000W			NOTA. See also AIP Ireland
SABER	514213.76N 0005658.19E	L980, M40		EGLL STARs
SALCO	494413.81N 0033146.40W		X	FRA (X): ODD FL
SAMON	511921N 0072504W	L38	I	FRA (I): Shannon FIR
SANBA	530821.53N 0022002.98W	N859, UN859		EGCC SIDs
SANDY	510350.81N 0010403.13E	L15, L613, L722, M189, N57, UN57, UN601		EGLL STARs
SAPCO	523225N 0012125W	N57, UN57, UY53, Y53		EGNX SIDs
SAWPE	513504.67N 0013916.42W	L179, P86, Q63	EX	EGGD STARs - EGFF STARs

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
SAXBI	514504.03N 0001113.77W	N27		EGLC SIDs
SEMMU	524641.00N 0040221.71W		I	
SETEL	540044.64N 0022608.71W	N57, UN57		EGCC STARs
SHAPP	543000.00N 0023738.33W	N601, UN601		
SHIRI	502447.02N 0034044.14W		I	
SIDDI	503106.74N 0035801.98W		I	
SIDHO	504538.88N 0031417.65W	N40, N862	I	
SILVA	515051.34N 0010019.40W	M183, M605, P86, Q41, UM605		EGBB STARs - EGLC STARs - EGMC STARs - EGGW STARs - EGSS STARs
SIRGO	513745.56N 0003847.03E	L179, L620		
SIRIC	512036.17N 0013358.89W	P2	X	EGKK STARs - EGLL STARs - EGGW STARs - EGSS STARs - EGKB STARs - EGLC STARs
SITET	500600N 0000000E	L151, N859, UN859		
SITKU	534435.77N 0044954.26W	M145		
SIVBU	532755N 0003444W	Y70		EGGP STARs
SIVDA	522121.54N 0000147.01E	P137, P155		
SKERY	500000.00N 0031023.06W	L22, N862, N864		EGJA Arrivals - EGJB SIDs/STARs - EGJJ SIDs/ STARs
SKESO	494929.42N 0030202.60W	N862, N90, P16		
SKINA	524817.04N 0014623.14W			EGBB STARs
SLANY	520930.80N 0055031.67W	L9	I	FRA (I): Shannon FIR
SLYDA	541204.37N 0050515.07W	L10		
SMOKI	574637.00N 0023555.62W	Y904	IAD	FRA (AD): EGPA En-route Hold
SODVU	513515.48N 0003446.80E	M87		
SOKDU	503939.22N 0020133.06W	N17		EGKK STARs - EGLL STARs - EGLF STARs
SOMAX	500000N 0150000W			SOTA. See also AIP Ireland
SOMVA	521826.00N 0023838.44E	P155, P44, Q295		
SONDO	520505.92N 0014842.35E	M183		
SONEX	532952.70N 0021020.86W	L60, L975, UL975		EGCC SIDs
SONOG	520619.71N 0021610.08E	M183, P7, Y4		
SOPAX	533848.89N 0042708.06W	L70, M144, UL70		
SOPEK	530631.88N 0023000.00E	L60, L989		
SOPIT	515729.84N 0010626.35W			EGLL STARs
SOPTO	551820.17N 0050000.00E		IX	FRA (I): ABV FL 285 FRA (X): BLW FL 285 Copenhagen FIR
SOQQA	513623.75N 0002328.43E	M87		EGLC SIDs
SOSAR	610000N 0020000W		EX	Reykjavik OCA Scottish/Reykjavik UIR Boundary Fix.
SOSIM	534855.75N 0043030.46W	L15, L28, Q38, UL28	X	FRA (X): ODD FL EGNX STARs - EGCC STARs
SOTUN	541035.65N 0033736.65E	L74, M90		
SOVAT	504645.67N 0012800.00E	L613		EGLC STARs - EGKB STARs - EGMC STARs
SOVED	560000N 0140000W			NOTA landfall point. See also AIP Ireland
SOXON	585806.22N 0035222.46W		I	
SOXUX	503546.32N 0005545.48E			EGLC STARs - EGKB STARs - EGMC STARs
SPEAR	513433.79N 0004200.57E	M604		EGMC STARs
STAFA	525141.00N 0021434.55W	L8, P18, UL8		EGBB STARs
STIRA	560802.11N 0035000.98W			EGPH STARs - EGPF STARs
STOAT	520133.22N 0000115.37W	L613, M14		
SUBIP	502644N 0005306E	M733, M8, UM733, UM8		
SUBUK	542247.81N 0031710.85W	N864, UN864		
SUDBY	551745.35N 0041606.05W	Z249		EGPK SIDs

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
SUMIN	551945.76N 0040318.17W	Z250		EGPK STARs
SUMUM	513814.25N 0020627.77E	L608, Q63, Y6		EGLC STARs - EGKB STARs - EGMC STARs
SUNOT	570000N 0150000W			NOTA. See also AIP Ireland
SUNUP	512731.48N 0015226.63E	L610		
SUPEL	531340.27N 0003528.02E	L90, Y70		
SUPIT	571956.52N 0070505.94W		I	
SURAT	555455.53N 0033000.00E		I	
SUSIS	553617.06N 0002102.35W		I	
TABEN	512149.05N 0011022.46W	Q41		
TABIS	520031.75N 0002643.90E			EGGW STARs
TACQI	510231.24N 0042846.93W		I	
TADAL	533513.83N 0030135.22W	L70, L8, UL70, UL8		
TADEX	545123.50N 0081401.49W		I	
TAKAS	490000N 0080000W			SOTA UIR Boundary
TALIG	493059.49N 0054804.31W		EX	FRA (E): EVEN FL FRA (X): ODD FL
TAMEL	484342.52N 0102949.80W	T213		SOTA. See also AIP Ireland
TANET	512658.00N 0005531.99E			EGLL STARs
TARTN	554301.89N 0030818.73W			EGPH STARs
TEBRA	512920.30N 0013643.00E	L610, Y4		EGKK STARs
TEDSA	520303.10N 0010739.03E	M183, M604		
TELBA	523952.00N 0021906.97W	L151, P18		
TELTU	504839.92N 0004517.69W	L982, M185, N17, N6, UM185, UN6		EGGW STARs - EGKK STARs - EGSC STARs - EGSS STARs
TENDO	540144.00N 0001446.72E	M79		
TENSO	533601.89N 0021227.00W	L603, UM65		
TERKO	513732.46N 0004448.08E	L179, M40		
TEVMO	511024.94N 0012459.14E			EGKB STARs - EGLC STARs
TEVSI	512100.75N 0010301.26W	T71, UT71		
TEWXI	514837.78N 0020145.31W		I	
THRED	502955.11N 0013950.03W	Q41, Y110, Z171		EGHH STARs - EGHI STARs
TIBGA	522326.45N 0052705.01W	Q63	A	FRA (A): EIDW, EIME, EIWT
TIGER	510401.82N 0002621.54E	T420		EGKK SIDs - EGLL STARs
TIGGY	503700.54N 0005130.10W	N6, UN6		
TIGWE	514822.73N 0031257.91W	L180, L9, N864	ID	FRA (D): EGBB
TIKCA	512933.57N 0052701.37W		I	
TILNI	543251.41N 0015117.89W	P18, UP18		EGCC STARs
TIMBA	505643.99N 0001542.25E			EGKK STARs
TIMIS	535700.98N 0043556.41W	Q39		
TIMPO	523331.58N 0010949.71W	T420		
TIMUP	552527.79N 0024829.63E	L7	EX	FRA (X): ODD FL
TINAC	561502.96N 0050000.00E		IEX	FRA (I): ABV FL 285 FRA (EX): BLW FL 285 Copenhagen FIR
TINAN	503959.79N 0032653.53W		I	EGGD STARs - EGFF STARs
TINDI	540214.26N 0031529.49E	P1		
TIPAN	543554.13N 0042356.20E	N866, UM185	X	FRA (X): EVEN FL
← TIPIL	531000.00N 0014423.13W	M868, N57, UM868		
TIPOD	532608.20N 0031705.06W			EGGP STARs
TIPTA	544812.54N 0013641.03W	UM82, UP17		
TIVER	504832.58N 0032525.65W	N92	D	FRA (D): EGBJ EGGD STARs - EGFF STARs
TIXEX	520748.00N 0010043.20W			EGLC STARs - EGKB STARs
TIZDU	514622.64N 0032337.75W	P4		

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
TOBID	521259.55N 0012759.21W			EGLL STARs
TOBIX	513617.39N 0011651.40E	L179		
TOBMO	564538.16N 0062810.51W	Y958	AD	FRA (AD): EGPI, EGPO, EGEC
TOJAQ	502859.78N 0033956.26W	P16	IA	FRA (A): EGFF, EGGD, EGBJ EGGD STARs - EGFF STARs
TOLSA	530736.89N 0030629.38E	N866		
TONQU	502309.42N 0031845.03W	N862	IAD	FRA (I): ODD FL FRA (A): EGJJ, EGJB FRA (D): EGFF, EGGD
TOPPA	532408.99N 0033341.01E	L74, M982		
TORGO	530756.88N 0031558.78W			EGGP STARs
TOSVA	514037.40N 0020426.34E	Y6		EGGW STARs - EGSS STARs
TOTRI	514629.57N 0001147.72E	Q295		
TOVGU	514403.18N 0004537.55E	M604, M84		
TOWTE	544421.52N 0004001.72W			
TOXTA	551505.77N 0042704.69W			EGPK STARs
TRIPO	514246.54N 0010457.56E	L980		EGLL STARs
TUBSU	520406N 0014028W	L151		
TUFOZ	510101.01N 0003024.31W			EGKK STARs
TUGPO	513709.84N 0005451.93E	L179		
TUJAG	500200.00N 0012800.00W			
TULTA	483436.57N 0080000.00W			SOTA. See also AIP Ireland and AIP France
TUMTI	530439.54N 0013615.16W	UP6		
TUNBY	511008N 0001929E			
TUNSO	550640.24N 0045740.78W	P600		EGPH STAR
TUPEM	535016.57N 0032854.85W	UP6	E	
TURLU	500435N 0080000W			
TUXOS	555824.08N 0073135.39W		I	
TUZLA	522040.55N 0010011.74E	P144		
UBCAM	515704.18N 0030012.19W	N862		EGGD STARs - EGFF STARs
UDDIZ	521504.21N 0001111.43E			EGGW STARs
UGBET	513701.15N 0000705.18W	L179, Q60		
ULLAP	575400.00N 0051009.20W	Y906	ID	FRA (D): EGQS
ULSAX	533554N 0015700W	N601, UN601		
ULTIB	513935.57N 0001643.51W	T420		EGLL SIDs
UMBAG	522052.37N 0004657.48E	P155, P5		
UMBUR	512733.00N 0000708.17E	M40		EGHH STARs - EGHI STARs
UMKIL	531105.53N 0023723.06W	L8, UL8		
UMLAT	514019.70N 0004139.32W	T418		EGLL SIDs
UMTUM	511227.30N 0010102.78E	L9, M87, UL9		EGKB STARs - EGLC STARs
UNDUG	504723.71N 0002530.03E	M733, UM733		EGGW STARs - EGSS STARs
UNDUX	533830.25N 0041838.76W	L70, M144, UL70		
UNFIT	512520.28N 0041857.44W		I	
UNGAP	522129.49N 0012338.97W	L608, P155		EGBB SIDs
UNIGO	533340N 0013339W	L975, UL975		
UNSAD	513340.24N 0005745.91E	L610		
UNTAL	545435.20N 0014423.27W	N110, UP18		
UNURO	552111N 0032102W	N864, UN864		
UNZIB	512929.62N 0015920.96W	L18, L607	I	
UPCAB	505348.30N 0061901.57W		I	
UPDUK	523426.66N 0005630.11W			EGNX STARs
UPGAS	551440.77N 0050000.00E		IE	FRA (I): ABV FL 285 FRA (E): BLW FL 285 Copenhagen FIR
UPGET	563935N 0020050W	P18	I	
UPNAL	552516.67N 0022451.00E	N44	E	

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
UPTON	533513.00N 0011802.58W	L975, UL975, UY250, Y250		EGCC STARs - EGGP STARs
USEKA	534202.24N 0002645.13W	N110		
UTAVA	515846.91N 0000418.79W	Q75		EGSS SIDs
UTFAV	510107.18N 0013307.11E			
UTOGU	550740N 0030443W	N601, UN601		
UTUXA	530030.45N 0021312.52W	N859, P18, UN859		
UVAVU	542500.07N 0015345.95W	P18, UP18		
UVPOK	535939.61N 0041235.26W	M147	A	FRA (A): EGAA (RNAV 1)
VABIK	511447.30N 0020000.00E	L18, Q70		
VABKA	531808.31N 0024410.02W	L8, Q4, UL8, UQ4		
VADNO	572711.05N 0033737.70W		IAD	FRA (AD): EGPC
VAKPO	541125.09N 0052239.23W	L15, Q38		
VALBO	550743.65N 0050000.00E		IEX	FRA (I): ABV FL 285 FRA (EX): BLW FL 285 Copenhagen FIR
VAMEB	540010N 0024832W	L612, UL612		EGGP STARs
VAPID	511513.97N 0010242.40W	L18, N859, T71, UN859, UT71		
VAPPI	553138.92N 0034542.62W			EGPF STARs
VASUX	503009.23N 0011516.99W	L982, N867, P88, UN867, UP88		EGKK STARs
VATON	512603.83N 0002056.10W			EGGW STARs - EGSS STARs
VATRY	523316N 0053000W	M17, Q63	I	FRA (I): Shannon FIR
VAXIT	563215N 0050000E		IEX	FRA (I): ABV FL 285 FRA (EX): BLW FL 285 Copenhagen FIR
VEGAR	530233.76N 0015823.43W			EGNX STARs - EGBB STARs
VEGUS	532400.54N 0002110.76W	UT29, Y70		EGBB STARs - EGNX STARs - EGGP STARs
VELAG	522435.82N 0010049.56W			EGNX STARs
VENAS	541819.85N 0033908.23E	L7, L74, M604		
VENER	543000N 0150000W			NOTA. See also AIP Ireland
VEREX	552703.29N 0021345.10W	N610	EX	FRA (X): ODD FL
VEXEN	500821.98N 0014934.38W	L980, Y110		
VEXUB	511409.00N 0003645.76W			EGLF STARs
VIDOK	522439.05N 0020231.12W	L151		
VOLFI	532035.13N 0032150.51W	Q38, Z197		
VOUGA	510332.85N 0005750.20W	N14, N63		
WAFFU	503456.89N 0002059.29E	M189, M605, M8, UM189, UM605, UM8, Y8		
WAFIL	595243.00N 0011711.00W	Y905	IAD	FRA (AD): EGPA
WEALD	511951.15N 0000205.32E			EGLL STARs
WECOW	535916.41N 0035103.10E	L7, N866		
WELIN	521450.25N 0005108.41W	N57, P166, T418, T420, UN57		EGBB STARs - EGNX STARs
WESUL	514015.29N 0002909.27E	L980, M14		EGLL STARs
WETFI	534947.08N 0053000.00W		I	FRA (I): Shannon FIR
WEVBE	520736.93N 0025921.14W	N862	I	EGGD STARs - EGFF STARs
WIGGU	511136.66N 0032027.75W	N864, N92	I	
WILLO	505905.88N 0001130.30W			EGKK STARs
WIQID	520944.27N 0012214.94E			EGGW STARs
WIZAD	510700.00N 0005711.09E	L18		EGKK SIDs
WOBUN	520110.27N 0004400.00W	L10, T418		EGGW STARs
XAMAB	501216.25N 0001552.83E	L612, UL612		

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS (continued)

Name-code designator	Coordinates	ATS route or other route	FRA Relevance	Remarks/ Usage
1	2	3	4	5
XAMAN	514704.77N 0021326.94E	L980, P49		EGLC STARs - EGKB STARs - EGMC STARs - EGGW STARs - EGSS STARs
XAPOS	531728.59N 0013751.25W	M16, N601, UN601		
XIDIL	502106.15N 0003829.37E	M605, UM605		
YOHDA	521203.00N 0012736.28W			EGBB STARs
YORQI	513118.51N 0022535.78W	L607, N21	I	EGGD SIDs
ZAGZO	521812.97N 0001352.54W			EGGW STARs
ZEFIQ	502338.06N 0032314.11W	N90		
ZESPE	513309.63N 0025314.43W	N92, P17	ID	FRA (D): EGBB
ZIPWE	514235.40N 0033400.70W	L180, Q63	IA	FRA (A): EGBB
ZOFAT	553536.23N 0040208.03W		I	
ZOPHI	510126.60N 0000055.43W			EGKK STARs
ZORFE	511256.13N 0003407.87E	P2		

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ENR 4.5 AERONAUTICAL GROUND LIGHTS - EN-ROUTE

Name IDENT Coordinates	Type and intensity (1 000 Candelas)	Characteristics	Operating hours	Remarks
1	2	3	4	5
ANDREWSFIELD 515345.00N 0002706.00E	Identification Beacon	Flashing Green 'AF'.		
BLACKBUSHE 511921.72N 0005021.78W	Aerodrome Beacon	Flashing White.		
CAMBRIDGE 521220.6706N 0001057.6733E	Aerodrome Beacon	Flashing Green 'CI'. 500 M east north east of the ARP.		
CUMBERNAULD 555828N 0035817W	Aerodrome Beacon	Flashing White. Top of Visual Control Room.	Activated upon request.	
DENHAM 513511.54N 0003044.82W	Identification Beacon	Flashing Green 'DN'.		
EDAY 591132.41N 0024606.19W	Aerodrome Beacon	Flashing White.	On request.	
ELSTREE	Identification Beacon	Flashing Green 'EL'		
FAIROAKS 512101.0498N 0003347.6419W	Aerodrome Beacon	Flashing White.		
FENLAND 524430.93N 0000143.68W	Aerodrome Beacon	Flashing Green 'FE'.		
GLOUCESTERSHIRE 515331.8859N 0021004.4351W	Identification Beacon	Flashing Green 'GO'. Approx. 270 M south of midpoint Runway 09/27.	As required during AD hours.	
HAVERFORDWEST 514957.1115N 0045751.7436W	Identification Beacon	Flashing Green 'HW'.		
KEMBLE 514011.31N 0020326.56W	Aerodrome Beacon	Flashes during published hours.	When aerodrome is open.	
LAND'S END 500608.9232N 0054005.3835W	Aerodrome Beacon	Flashing White.		
LASHENDEN/HEADCORN 510917.10N 0003841.90E	Identification Beacon	Flashing Green. Beacon at centre of east end of the blister hangar.		
LONDONDERRY/EGLINTON 550223.3898N 0070921.1604W	Aerodrome Beacon	White Strobe on Control Tower.	During operational hours at night.	
LYDD 505715.76N 0005602.99E	Aerodrome Beacon	Flashing White - On terminal roof.		
NOTTINGHAM	Identification Beacon	Flashing Green 'NT'		
REDHILL 511301N 0000837W	Aerodrome Beacon	Flashing White/Green	HN	
ROCHESTER 512052.65N 0003017.67E	Aerodrome Beacon	Rotating White.		
SCILLY ISLES/ST MARY'S 495451.3634N 0061741.4543W	Identification Beacon	Flashing Green 'SC' - VCR roof.		
SHOBDON 521436.97N 0025251.70W	Aerodrome Beacon	Flashing White.		
SHOREHAM 505009.69N 0001736.44W	Aerodrome Beacon	Flashing Green 'SH'.		
SLEAP 525006.41N 0024625.04W	Aerodrome Beacon	Flashing Green		
SOUTHAMPTON 505708.1668N 0012134.1758W	Aerodrome Beacon	Flashing White/Green.	HN during aerodrome operating hours.	
TIREE 562953.9202N 0065243.1365W	Aerodrome Beacon	Flashing White		
WARTON 534421.9049N 0025250.1764W	Identification Beacon	Flashing Green 'WQ'	H24	
WELLESBOURNE MOUNTFORD 521127.50N 0013706.00W	Aerodrome Beacon	Flashing White.		
WOLVERHAMPTON/ HALFPENNY GREEN 523055.92N 0021548.99W	Identification Beacon	Flashing Green 'WBA'		

ENR 4.5 AERONAUTICAL GROUND LIGHTS - EN-ROUTE (continued)

Name IDENT Coordinates	Type and intensity (1 000 Candelas)	Characteristics	Operating hours	Remarks
1	2	3	4	5
WYCOMBE AIR PARK/BOOKER 513649.9061N 0004813.1090W	Identification Beacon	Flashing Green 'WP'		

ENR 5 NAVIGATION WARNINGS

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS

Airspace Restrictions - Manned and Unmanned Aircraft Systems (UAS)

Unless otherwise stated either in the remarks section or associated SI the Navigational restrictions listed below with an identification which starts with "EGD", "EGP" or "EGR" are applicable to **both** manned **and** unmanned aircraft systems. Restrictions listed below with an identification which starts with "EGRU" are applicable to **Unmanned Aircraft Systems only**.

Unmanned Aircraft Systems (UAS) - Data File

To satisfy the requirement for the provision of a dataset of UAS Airspace Restrictions an electronic file is available by selecting the UAS Airspace Restrictions File (ENR 5.1) link from the list available on the current IAIP website (updated each AIRAC).

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
Danger Area		
EGD001 TREVOSE HEAD 501918N 0053042W - 502400N 0053900W - 503200N 0053400W - 503930N 0052400W - 504300N 0051230W - 503830N 0050430W - 501918N 0053042W	Upper limit: 1000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives. Service: SUACS: Culdrose APP on 134.055 when open; at other times SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Culdrose Operations, Tel: 01326-552415. SUA Authority: DAATM (HQ Navy). Hours: Activated by NOTAM.
EGD003 PLYMOUTH 501001N 0034740W - 500339N 0033430W - 494105N 0034912W - 493719N 0040938W - 501001N 0034740W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD003Z1 PLYMOUTH FBZ 501038N 0034857W - 501055N 0034824W - 501102N 0034743W - 501057N 0034701W - 500414N 0033308W - 500335N 0033252W - 494125N 0034719W - 493658N 0041132W - 501038N 0034857W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD003Z5 PLYMOUTH FBZ 501304N 0035405W - 501433N 0035123W - 501508N 0034756W - 501442N 0034425W - 500636N 0032741W - 500317N 0032619W - 494248N 0033944W - 493556N 0041705W - 493758N 0041735W - 501304N 0035405W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD004 PLYMOUTH 500339N 0033430W - 500103N 0032910W - 494653N 0031655W - 494105N 0034912W - 500339N 0033430W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD004Z1 PLYMOUTH FBZ 500415N 0033547W - 500433N 0033515W - 500440N 0033433W - 500435N 0033351W - 500143N 0032758W - 494709N 0031523W - 494044N 0035106W - 500415N 0033547W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD004Z5 PLYMOUTH FBZ 500639N 0034057W - 500811N 0033815W - 500846N 0033446W - 500820N 0033115W - 500424N 0032311W - 494814N 0030915W - 493943N 0035639W - 494141N 0035710W - 500639N 0034057W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD005A PREDANNACK A circle, 3 NM radius, centred at 500007N 0051354W	Upper limit: 8000 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Culdrose APP on 134.055 when open; at other times SUAAIS: Swanwick Mil via London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Culdrose Operations, Tel: 01326-552201. SUA Authority: DAATM (HQ Navy). Hours: Activated by NOTAM.
EGD005B PREDANNACK CORRIDOR 500208N 0051722W - 495818N 0052242W - 495124N 0051200W - 495629N 0050728W - 495809N 0051024W thence clockwise by the arc of a circle radius 3 NM centred on 500007N 0051354W to 500208N 0051722W	Upper limit: 8000 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Culdrose APP on 134.055 when open; at other times SUAAIS: Swanwick Mil via London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Culdrose Operations, Tel: 01326-552201. SUA Authority: DAATM (HQ Navy). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD006A FALMOUTH BAY 501244N 0044659W - 500726N 0044228W - 500000N 0045430W - 500924N 0045430W - 501244N 0044659W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD006AZ1 FALMOUTH BAY FBZ 501341N 0044736W - 501345N 0044657W - 501339N 0044618W - 501324N 0044547W - 500737N 0044051W - 500657N 0044101W - 495904N 0045346W - 495858N 0045441W - 495912N 0045532W - 495942N 0045603W - 500939N 0045603W - 501005N 0045542W - 501341N 0044736W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD006AZ5 FALMOUTH BAY FBZ 501727N 0045003W - 501750N 0044648W - 501721N 0044334W - 501604N 0044057W - 500820N 0043423W - 500500N 0043512W - 495521N 0045049W - 495449N 0045523W - 495559N 0045940W - 495830N 0050215W - 501038N 0050217W - 501248N 0050030W - 501727N 0045003W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD006B FALMOUTH BAY 495907N 0050506W - 500500N 0045948W - 500924N 0045430W - 500000N 0045430W - 495646N 0045634W - 495907N 0050506W	Upper limit: 8000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Culdrose Operations, Tel: 01326-552201. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD006C FALMOUTH BAY 495907N 0050506W - 495124N 0051200W - 495124N 0050000W - 495646N 0045634W - 495907N 0050506W	Upper limit: 8000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Culdrose Operations, Tel: 01326-552201. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD007A FOWEY 501801N 0043643W - 501820N 0043152W - 501857N 0042738W - 501550N 0042458W - 500922N 0044407W - 501202N 0044623W - 501801N 0043643W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD007AZ1 FOWEY FBZ 501859N 0043725W - 501919N 0043207W - 502000N 0042728W - 501943N 0042631W - 501608N 0042327W - 501544N 0042323W - 501521N 0042334W - 501502N 0042358W - 500818N 0044357W - 500832N 0044511W - 501151N 0044800W - 501231N 0044751W - 501859N 0043725W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD007AZ5 FOWEY FBZ 502249N 0044012W - 502316N 0043308W - 502411N 0042649W - 502249N 0042203W - 501721N 0041722W - 501521N 0041703W - 501325N 0041758W - 501152N 0041958W - 500400N 0044318W - 500510N 0044924W - 501107N 0045428W - 501427N 0045341W - 502249N 0044012W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD007B FOWEY 501550N 0042458W - 501342N 0042309W - 500726N 0044228W - 500922N 0044407W - 501550N 0042458W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD007BZ1 FOWEY FBZ 501654N 0042507W - 501640N 0042354W - 501348N 0042128W - 501300N 0042152W - 500622N 0044219W - 500636N 0044332W - 500915N 0044548W - 501003N 0044525W - 501654N 0042507W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD007BZ5 FOWEY FBZ 502112N 0042545W - 502001N 0041939W - 501414N 0041444W - 501011N 0041643W - 500204N 0044145W - 500315N 0044746W - 500848N 0045230W - 501248N 0045038W - 502112N 0042545W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD007C FOWEY INNER 501733N 0044334W - 501801N 0043643W - 501202N 0044623W - 501244N 0044659W - 501414N 0044441W - 501647N 0044447W - 501733N 0044334W	Upper limit: 2000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards.. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD008A PLYMOUTH 495654N 0045629W - 493715N 0041003W - 492745N 0050000W - 495124N 0050000W - 495654N 0045629W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD008AZ1 PLYMOUTH FBZ 495729N 0045747W - 495747N 0045716W - 495755N 0045637W - 495752N 0045556W - 493736N 0040805W - 492727N 0050132W - 495136N 0050133W - 495729N 0045747W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD008AZ5 PLYMOUTH FBZ 500120N 0050026W - 500200N 0045709W - 500142N 0045343W - 494036N 0040355W - 493838N 0040235W - 492616N 0050740W - 495223N 0050744W - 495950N 0050259W - 500120N 0050026W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD008B PLYMOUTH 494740N 0043430W - 494438N 0040446W - 493719N 0040938W - 493715N 0041003W - 494740N 0043430W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD008BZ1 PLYMOUTH FBZ 494821N 0043545W - 494842N 0043448W - 494535N 0040410W - 494519N 0040335W - 494455N 0040315W - 494427N 0040313W - 493740N 0040743W - 493653N 0041159W - 494701N 0043548W - 494742N 0043608W - 494821N 0043545W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD008BZ5 PLYMOUTH FBZ 495106N 0044044W - 495252N 0043601W - 494923N 0040147W - 494803N 0035852W - 494601N 0035709W - 494342N 0035659W - 493905N 0040005W - 493526N 0041946W - 494427N 0044100W - 494748N 0044241W - 495106N 0044044W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD008C PLYMOUTH 501140N 0042931W thence anti-clockwise by the arc of a circle radius 16.5 NM centred on 501904N 0040633W to 500623N 0035008W - 494438N 0040446W - 494740N 0043430W - 495654N 0045629W - 500000N 0045430W - 500726N 0044228W - 501140N 0042931W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 22,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 55,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD008CZ1 PLYMOUTH FBZ 501217N 0042816W thence anti-clockwise by the arc of a circle radius 15.5 NM centred on 501904N 0040633W to 500724N 0035041W - 500722N 0034942W - 500714N 0034914W - 500651N 0034841W - 500615N 0034831W - 494355N 0040334W - 494336N 0040429W - 494643N 0043504W - 495615N 0045748W - 495657N 0045808W - 500034N 0045549W - 500815N 0044323W - 501239N 0042957W - 501241N 0042919W - 501233N 0042843W - 501217N 0042816W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD008CZ5 PLYMOUTH FBZ 501638N 0043128W - 501641N 0042758W - 501550N 0042459W - 501434N 0042303W thence anti-clockwise by the arc of a circle radius 11.5 NM centred on 501904N 0040633W to 501128N 0035306W - 501120N 0034812W - 501032N 0034531W - 500842N 0034252W - 500545N 0034205W - 494104N 0035845W - 493926N 0040323W - 494254N 0043719W - 495341N 0050302W - 495708N 0050442W - 500252N 0050103W - 501133N 0044701W - 501638N 0043128W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD009A WEMBURY 501904N 0040633W - 501001N 0034740W - 500623N 0035008W thence clockwise by the arc of a circle radius 16.5 NM centred on 501904N 0040633W to 501140N 0042931W - 501904N 0040633W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC – Manageable. Vertical Limit 22,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 55,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD009AZ1 WEMBURY FBZ 501136N 0043112W - 501222N 0043047W - 502005N 0040651W - 502002N 0040558W - 501036N 0034618W - 500956N 0034601W - 500547N 0034851W thence clockwise by the arc of a circle radius 17.5 NM centred on 501904N 0040633W to 501136N 0043112W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD009AZ5 WEMBURY FBZ 501134N 0043757W - 501516N 0043540W - 502410N 0040804W - 502355N 0040340W - 501258N 0034050W - 500936N 0033928W - 500353N 0034321W - 500259N 0034422W thence clockwise by the arc of a circle radius 21.5 NM centred on 501904N 0040633W to 501134N 0043757W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD009B WEMBURY 501342N 0042309W - 501951N 0041015W thence clockwise by the arc of a circle radius 2.5 NM centred on 501904N 0040633W to 501735N 0040325W - 501904N 0040633W - 501342N 0042309W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC – Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 121.255 when open; at other times Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Plymouth Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Activated by NOTAM.
EGD009BZ1 WEMBURY FBZ 502029N 0041133W thence clockwise by the arc of a circle radius 3.5 NM centred on 501904N 0040633W to 501637N 0040239W - 501634N 0040353W - 501754N 0040642W - 501238N 0042259W - 501251N 0042409W - 501330N 0042448W - 501416N 0042434W - 502029N 0041133W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD009BZ5 WEMBURY FBZ 502311N 0041620W thence clockwise by the arc of a circle radius 7.5 NM centred on 501904N 0040633W to 501227N 0040105W - 501243N 0040616W - 501314N 0040720W - 500822N 0042220W - 500925N 0042810W - 501243N 0043122W - 501632N 0043015W - 502311N 0041620W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD011A OKEHAMPTON 504226N 0040146W - 504311N 0035854W - 503937N 0035613W - 503725N 0035712W - 503744N 0035801W - 503729N 0040101W - 504019N 0040341W - 504226N 0040146W	Upper limit: 24100 FT ALT Lower limit: SFC	AMC – Manageable above 10,000 FT ALT. Vertical Limit 10,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 24,100 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01837-657210. SI 1980/949. UAS BVLOS will not be conducted above 10,000 FT ALT. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD011AZ OKEHAMPTON FBZ 504416N 0035855W - 504358N 0035745W - 503942N 0035433W - 503655N 0035547W - 503634N 0035617W - 503624N 0035658W - 503627N 0035742W - 503642N 0035822W - 503627N 0040117W - 503643N 0040207W - 504002N 0040515W - 504035N 0040516W - 504314N 0040252W - 504416N 0035855W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD011B WILLSWORTHY 504019N 0040341W - 503729N 0040101W - 503726N 0040136W - 503550N 0040444W - 503747N 0040558W - 504019N 0040341W	Upper limit: 24100 FT ALT Lower limit: SFC	AMC – Manageable above 4500 FT ALT. Vertical Limit 4500 FT ALT. Vertical Limit OCNL notified to 24,100 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01837-657210. SI 1980/950. UAS BVLOS will not be conducted above 4500 FT ALT. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD011BZ WILLSWORTHY FBZ 504102N 0040451W - 504119N 0040408W - 504119N 0040317W - 504103N 0040233W - 503747N 0035928W - 503717N 0035926W - 503649N 0035947W - 503632N 0040025W - 503629N 0040057W - 503454N 0040402W - 503448N 0040446W - 503456N 0040529W - 503514N 0040603W - 503737N 0040733W - 503805N 0040731W - 504102N 0040451W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD011C MERRIVALE 503726N 0040136W - 503729N 0040101W - 503744N 0035801W - 503725N 0035712W - 503426N 0035832W - 503402N 0040336W - 503550N 0040444W - 503726N 0040136W	Upper limit: 24100 FT ALT Lower limit: SFC	AMC – Manageable above 10,000 FT ALT. Vertical Limit 10,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 24,100 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01837-657210. SI 1979/1721. UAS BVLOS will not be conducted above 10,000 FT ALT. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD011CZ MERRIVALE FBZ 503823N 0040214W - 503828N 0040113W - 503846N 0035740W - 503806N 0035556W - 503728N 0035533W - 503352N 0035709W - 503329N 0035752W - 503300N 0040356W - 503321N 0040451W - 503546N 0040623W - 503624N 0040607W - 503823N 0040214W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD012 LYME BAY NORTH 504220N 0024500W - 503400N 0024500W following the line of latitude to - 503400N 0030500W - 503000N 0031730W - 503650N 0031500W - 504106N 0030544W - then along the coastline to 504220N 0024500W	Upper limit: 18000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure. Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD012Z LYME BAY NORTH FBZ 504510N 0025454W - 504356N 0024627W - 504306N 0024353W - 504237N 0024326W - 503335N 0024326W - 503300N 0024421W following the line of latitude to - 503300N 0030438W - 502859N 0031712W - 502902N 0031807W - 502924N 0031850W - 502957N 0031908W - 503725N 0031624W - 504140N 0030712W - 504213N 0030702W - 504300N 0030547W - 504311N 0030445W - 504312N 0030334W - 504259N 0030117W - 504510N 0025454W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD013 LYME BAY 503400N 0024500W - 500200N 0024500W - 500200N 0025800W - 500800N 0030430W - 502500N 0031730W - 503000N 0031730W - 503400N 0030500W - 503400N 0024500W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 22000 FT ALT. Vertical Limit OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD013Z1 LYME BAY FBZ 503500N 0030522W following the line of latitude to - 503500N 0024439W - 503450N 0024405W - 503425N 0024326W - 500135N 0024327W - 500100N 0024422W following the line of latitude to - 500100N 0025823W - 500114N 0025903W - 500730N 0030551W - 502446N 0031904W - 503017N 0031904W - 503046N 0031836W - 503500N 0030522W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD013Z5 LYME BAY FBZ 503900N 0030652W following the line of latitude to - 503900N 0024315W - 503809N 0024025W - 503604N 0023709W - 495955N 0023715W - 495700N 0024148W following the line of latitude to - 495700N 0025954W - 495808N 0030316W - 500527N 0031113W - 502350N 0032519W - 503125N 0032520W - 503349N 0032301W - 503900N 0030652W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD014 PORTLAND 503818N 0023424W - 503736N 0023230W - 503530N 0022948W - 503400N 0023124W - 503400N 0023000W - 502931N 0023000W - 503400N 0024500W - 503400N 0024200W - 503700N 0024130W - 503818N 0023424W	Upper limit: 15000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 5000 FT ALT. Vertical Limit OCNL notified to altitudes up to 15000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD015 BOVINGTON A circle, 500 M radius, centred at 504324N 0021424W	Upper limit: 3600 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01929-403765. SI 1936/118. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD017 PORTLAND 503400N 0024500W - 502931N 0023000W - 500200N 0023000W - 500200N 0024500W - 503400N 0024500W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 22000 FT ALT. Vertical Limit OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD017Z1 PORTLAND FBZ 503500N 0024439W - 503018N 0022855W - 502948N 0022826W - 500135N 0022827W - 500100N 0022922W following the line of latitude to - 500100N 0024538W - 500135N 0024633W - 503433N 0024634W - 503500N 0024527W following the line of latitude to - 503500N 0024439W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD017Z5 PORTLAND FBZ 503900N 0024315W - 503325N 0022436W - 503058N 0022210W - 495955N 0022215W - 495700N 0022648W following the line of latitude to - 495700N 0024812W - 495955N 0025245W - 503644N 0025251W - 503900N 0024717W following the line of latitude to - 503900N 0024315W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD021 PORTLAND 503500N 0022000W - 503500N 0021614W - 503154N 0021624W - 503000N 0021700W - 502918N 0021718W - 502500N 0021500W - 502931N 0023000W - 503000N 0023000W - 503000N 0022000W - 503500N 0022000W	Upper limit: 15000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD023 PORTLAND 502931N 0023000W - 502500N 0021500W - 500200N 0021500W - 500200N 0023000W - 502931N 0023000W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 22000 FT ALT. Vertical Limit OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD023Z1 PORTLAND FBZ 503039N 0023007W - 502547N 0021355W - 502517N 0021326W - 500135N 0021327W - 500100N 0021422W following the line of latitude to - 500100N 0023038W - 500135N 0023133W - 503004N 0023134W - 503039N 0023007W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD023Z5 PORTLAND FBZ 503512N 0023034W - 502854N 0020936W - 502627N 0020711W - 495955N 0020715W - 495825N 0020936W - 495700N 0021803W following the line of latitude to - 495700N 0023312W - 495955N 0023745W - 503215N 0023750W - 503512N 0023034W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD026 LULWORTH 504020N 0020755W - 503950N 0020732W - 503751N 0020753W - 503644N 0020813W - 503503N 0020440W - 503030N 0020043W - 502654N 0020230W - 502500N 0020842W - 502500N 0021500W - 502918N 0021718W - 503000N 0021700W - 503154N 0021624W - 503536N 0021612W - 503700N 0021447W - 503800N 0021430W - 503825N 0021137W - 504028N 0021137W - 504020N 0020755W	Upper limit: 15000 FT ALT Lower limit: SFC	Vertical Limit OCNL notified to altitudes up to ALT 20,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS less than 150 KTS). Service: SUACS not available during notified operating hours. SUAAIS: Plymouth Military on 124.150 MHz when open, London Information on 124.750 MHz thereafter. Contact: Booking: FOST Eastern Area Manager, Tel: 01752-557752 for the week before, FOST Duty Operations for the current week. Range Information on 01929-404859 or 01929-404712. SI 1978/1663. Unmanned Aircraft Systems (VLOS/BVLOS less than 150 KTS) will not be conducted above FL 115 and north of a line 503813N 0021301W, 503746N 0021005W and 503810N 0020750W. SUA Authority: DAATM (DIO). Hours: Mon-Thu 0800-2359 (0700-2359), Fri 0800-1600 (0700-1500); and as activated by NOTAM.
EGD031 PORTLAND 503626N 0015635W - 503000N 0015635W - 503000N 0020058W - 503030N 0020043W - 503412N 0020356W - 503435N 0020320W - then along the coastline in an easterly direction to 503626N 0015635W	Upper limit: 15000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure. Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD036 PORTSMOUTH 502927N 0011208W - 500000N 0011126W - 500000N 0014301W - 500620N 0014207W - 502927N 0011208W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit: 10000 FT ALT. Vertical Limit: OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz or 124.600 MHz as appropriate or through Southampton or Jersey ATSUs, as appropriate. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD037 PORTSMOUTH 503700N 0010211W - 503700N 0003938W - 503000N 0003213W - 503000N 0011124W - 503700N 0010211W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit: 10000 FT ALT. Vertical Limit: OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz or 124.600 MHz as appropriate. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD038 PORTSMOUTH 503000N 0011124W - 503000N 0005000W - 500000N 0005000W - 500000N 0011126W - 502927N 0011208W - 503000N 0011124W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit: 10000 FT ALT. Vertical Limit: OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz or 124.600 MHz as appropriate. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD039 PORTSMOUTH 503000N 0005000W - 503000N 0003213W - 502948N 0003200W - 500000N 0003200W - 500000N 0005000W - 503000N 0005000W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit: 10000 FT ALT. Vertical Limit: OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz or 124.600 MHz as appropriate. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD040 PORTSMOUTH 502948N 0003200W - 501347N 0001511W - 500000N 0003155W - 500000N 0003200W - 502948N 0003200W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit: 10000 FT ALT. Vertical Limit: OCNL notified to altitudes up to 55000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Plymouth Military on 124.150 MHz when open; at other times, Swanwick Mil via London Information on 124.750 MHz. SUAAIS: London Information on 124.750 MHz or 124.600 MHz as appropriate. Contact: Pre-flight information / Booking: FOST Duty Operations, Tel: 01752-557550. SUA Authority: DAATM (HQ Navy). Hours: Mon-Thu 0800-1700 (0700-1600), Fri 0800-1400 (0700-1300); and as activated by NOTAM.
EGD044 LYDD RANGES 505525N 0005534E - 505328N 0005613E - 505238N 0005359E - 505237N 0005015E - 505420N 0004748E - 505554N 0005009E - 505650N 0005348E - 505525N 0005534E	Upper limit: 4000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Lydd Approach on 120.705 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01303-225503. SI 1988/1465. SUA Authority: DAATM (DIO). Hours: H24

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD061 WOODBURY COMMON A circle, 926 M radius, centred at 504049N 0032051W	Upper limit: 1500 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Exeter APP on 128.980 MHz when open; at other times London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01395-272972. SI 2009/3284. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD064A SOUTH WEST COMPLEX 512016N 0071115W - 511616N 0061643W - 502838N 0060046W - 501752N 0070521W - 502621N 0073603W - 503808N 0074914W - 504705N 0075207W - 505745N 0075205W - 512016N 0071115W	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres. Service: SUAAIS: London Information on 124.750 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD064AZ SOUTH WEST COMPLEX FBZ 512443N 0071513W - 512520N 0071202W - 512102N 0061313W - 511852N 0060928W - 502741N 0055228W - 502417N 0055548W - 501235N 0070558W - 502218N 0074108W - 503605N 0075635W - 504634N 0080000W - 505850N 0080000W - 510047N 0075836W - 512443N 0071513W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD064B SOUTH WEST COMPLEX 511616N 0061643W - 511207N 0052532W - 510624N 0052510W - 503012N 0054335W - 502838N 0060046W - 511616N 0061643W	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres. Service: SUAAIS: London Information on 124.750 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD064BZ SOUTH WEST COMPLEX FBZ 512032N 0062118W - 512122N 0061740W - 511650N 0052136W - 511408N 0051742W - 510542N 0051711W - 502718N 0053649W - 502527N 0054015W - 502324N 0060243W - 502540N 0060747W - 511624N 0062455W - 511845N 0062354W - 512032N 0062118W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD064C SOUTH WEST COMPLEX 511207N 0052532W - 511028N 0050621W - 505443N 0043352W - 504712N 0043327W - 504423N 0043914W - 504328N 0043921W - 503012N 0054335W - 510624N 0052510W - 511207N 0052532W	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres. Service: SUAAIS: London Information on 124.750 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD064CZ SOUTH WEST COMPLEX FBZ 511713N 0052613W - 511514N 0050311W - 505759N 0042737W - 505600N 0042601W - 504609N 0042531W - 504358N 0042709W - 504146N 0043140W - 504132N 0043142W - 503909N 0043442W - 502501N 0054312W - 502539N 0054730W - 502738N 0055039W - 503022N 0055143W - 510705N 0053309W - 511302N 0053333W - 511504N 0053211W - 511634N 0052935W - 511713N 0052613W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD110 BRAUNTON BURROWS 510602N 0041529W - 510606N 0041203W - 510500N 0041200W - 510458N 0041315W - 510516N 0041344W - 510514N 0041527W - 510602N 0041529W	Upper limit: 2000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 07870-377646 or 01395-277891. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD113A CASTLEMARTIN 513937N 0051830W following the line of latitude to - 513937N 0050443W - 513906N 0050320W - 513130N 0050530W - 512900N 0050330W following the line of latitude to - 512900N 0045432W - 512430N 0050220W thence clockwise by the arc of a circle radius 18.1 NM centred on 514213N 0045647W to 513610N 0052408W - 513937N 0051830W	Upper limit: 40000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01646-662496. SI 1986/1834. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD113AZ CASTLEMARTIN FBZ 514037N 0051909W following the line of latitude to - 514037N 0050416W - 513948N 0050205W - 513914N 0050140W - 513139N 0050350W - 513000N 0050231W following the line of latitude to - 513000N 0045402W - 512939N 0045313W - 512905N 0045252W - 512828N 0045305W - 512334N 0050136W - 512327N 0050216W thence clockwise by the arc of a circle radius 19.1 NM centred on 514213N 0045647W to 513606N 0052550W - 513639N 0052538W - 514037N 0051909W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD113B CASTLEMARTIN 513906N 0050320W thence clockwise by the arc of a circle radius 6.6 NM centred on 513230N 0050400W to 513618N 0045520W - 513618N 0045332W - 513230N 0044830W - 512900N 0045432W - 512900N 0050330W - 513130N 0050530W - 513906N 0050320W	Upper limit: 45000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01646-662496. SI 1986/1834. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD113BZ CASTLEMARTIN FBZ 514007N 0050353W thence clockwise by the arc of a circle radius 7.63 NM centred on 513230N 0050400W to 513718N 0045430W - 513718N 0045310W - 513706N 0045232W - 513250N 0044652W - 513202N 0044657W - 512800N 0045354W - 512800N 0050357W - 512818N 0050444W - 513121N 0050710W - 513938N 0050449W - 514007N 0050353W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD115A MANORBIER 513815N 0045012W thence clockwise by the arc of a circle radius 2 NM centred on 513815N 0044700W to 513815N 0044348W - 513815N 0045012W	Upper limit: 27000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01834-871282. SI 1941/158. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD115AZ MANORBIER FBZ 513745N 0045145W thence clockwise by the arc of a circle radius 3 NM centred on 513815N 0044700W to 513745N 0044215W - 513715N 0044313W - 513715N 0045047W - 513745N 0045145W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD115B MANORBIER 513815N 0045012W - 513815N 0044348W - 513345N 0043019W thence clockwise by the arc of a circle radius 11.34 NM centred on 513815N 0044700W to 513208N 0050218W - 513815N 0045012W	Upper limit: 50000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01834-871282. SI 1941/158. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD115BZ MANORBIER FBZ 513915N 0045046W - 513915N 0044324W - 513427N 0042901W - 513344N 0042835W thence clockwise by the arc of a circle radius 12.34 NM centred on 513815N 0044700W to 513156N 0050359W - 513240N 0050346W - 513915N 0045046W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD117 PENDINE 513510N 0042400W - 513629N 0043752W - 513958N 0043743W - 514515N 0043300W - 514524N 0042517W - 514445N 0042400W - 513510N 0042400W	Upper limit: 27000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 23,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 27,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information: Range Control, Tel: 01994-452240. SI 1973/1627. UAS BVLOS will not be conducted above 10,000 FT ALT. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD117Z PENDINE FBZ 514614N 0043329W - 514625N 0042444W - 514523N 0042242W - 514458N 0042223W - 513457N 0042224W - 513433N 0042241W - 513416N 0042313W - 513409N 0042354W - 513533N 0043842W - 513608N 0043929W - 514014N 0043919W - 514558N 0043412W - 514614N 0043329W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD118 PEMBREY 514625N 0042400W thence clockwise by the arc of a circle radius 3.5 NM centred on 514313N 0042144W to 514001N 0042400W - 514625N 0042400W	Upper limit: 23000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 12,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 23,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft Systems (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS / SUAAIS: Pembrey Range on 122.755 when open; at other times London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range ATC, Tel: 01554-892205. Associated aircraft operations outside area boundary; 122.755 is a common channel also used by Holbeach and Donna Nook AWRs. Ensure crossing clearance request is specific to Pembrey AWR. UAS BVLOS will not be conducted above 9000 FT ALT. SUA Authority: DAATM (DIO). Hours: Mon-Thu 0900-1600 (0800-1600), Fri 0900-1400 (0800-1300); and as activated by NOTAM.
EGD118Z PEMBREY FBZ 514711N 0042508W thence clockwise by the arc of a circle radius 4.5 NM centred on 514313N 0042144W to 513915N 0042508W - 513944N 0042536W - 514641N 0042537W - 514711N 0042508W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD119 BRIDGWATER BAY A circle, 4 NM radius, centred at 511224N 0031353W	Upper limit: 5000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives. Service: SUAAIS: Yeovilton APP on Channel 127.355 when open; at other times London Information on 124.750 MHz. Contact: Pre-flight information: RNAS Yeovilton Air Operations, Tel: 01935-455497. Booking: RNAS Yeovilton Air Weapons Supply, Tel: 01935-455449. Range Tower when manned, Tel: 01278-741337. SUA Authority: DAATM (HQ Navy). Hours: Activated by NOTAM.
EGD120 BOSCOMBE DOWN 511052N 0014802W - 511059N 0014641W - 511044N 0014308W - 511105N 0014228W thence clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 510844N 0014110W - 510801N 0014248W - 510730N 0014248W - 510646N 0014409W - 510746N 0014819W thence clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 511052N 0014802W	Upper limit: 2500 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS / SUAAIS: Boscombe Down Zone 126.705. Contact: Pre-flight information: Boscombe Down ATC, Tel: 01980-663246. This Danger Area is contained within the extant Boscombe Down ATZ; all regulations associated with flight within an ATZ remain applicable. Upper limit is expressed by reference to height, based on Boscombe Down QFE (identical to ATZ upper limit). SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD122A WESSEX WEST 511329N 0021149W - 511106N 0020713W - 511006N 0015702W - 510125N 0015702W - 505938N 0020714W - 510120N 0021149W - 511329N 0021149W	Upper limit: FL160 Lower limit: FL80	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS / SUAAIS: Boscombe Down Zone 126.705. Contact: Pre-flight information: Boscombe Down ATC, Tel: 01980-663246. Pilots will be required to comply with ATC instructions whilst crossing EGD122A and will be provided with a Deconfliction Service. Pilots who are unable to comply with ATC instructions should not request a crossing clearance. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD122B WESSEX CENTRAL 511059N 0014641W - 511044N 0014308W - 510357N 0014230W - 510125N 0015702W - 511006N 0015702W - 511059N 0014641W	Upper limit: FL160 Lower limit: FL80	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS / SUAAIS: Boscombe Down Zone 126.705. Contact: Pre-flight information: Boscombe Down ATC, Tel: 01980-663246. Pilots will be required to comply with ATC instructions whilst crossing EGD122B and will be provided with a Deconfliction Service. Pilots who are unable to comply with ATC instructions should not request a crossing clearance. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD122C WESSEX EAST 511335N 0013725W - 511236N 0013044W - 510527N 0013342W - 510357N 0014230W - 511044N 0014308W - 511233N 0013942W - 511247N 0013759W - 511335N 0013725W	Upper limit: FL160 Lower limit: FL80	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS / SUAAIS: Boscombe Down Zone 126.705. Contact: Pre-flight information: Boscombe Down ATC, Tel: 01980-663246. Pilots will be required to comply with ATC instructions whilst crossing EGD122C and will be provided with a Deconfliction Service. Pilots who are unable to comply with ATC instructions should not request a crossing clearance. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD123 IMBER 511724N 0020107W - 511339N 0015746W - 511348N 0015705W - 511023N 0015325W - 511006N 0015702W - 511106N 0020713W - 511329N 0021149W - 511516N 0020939W - 511705N 0020312W - 511724N 0020107W	Upper limit: 50000 FT ALT Lower limit: SFC	AMC Manageable. Vertical Limit 3000 FT ALT H24. Vertical Limit 23,000 FT ALT Mon-Thu 0800-2359 (0700-2300), Fri 0800-1730 (0700-1630). Vertical Limit OCNL notified to altitudes up to 50,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS: Boscombe Down ATC on 126.705 when open; SUAAIS: Salisbury Information on 122.755 when open; at other times SUAAIS via London Information on 124.750 MHz. Contact: Pre-flight information / Booking: SPTA Air Operations, Tel: 01980-674710 or 674730 when open. SI 1963/1293, SI 1981/1882. Aircraft approved into Danger Areas out of hours are to make blind calls on VHF 122.755. This is a common channel also used by Pembrey, Holbeach and Donna Nook AWRs - ensure calls are specific to SPTA Danger Areas. SUA Authority: DAATM (DIO). Hours: See above.
EGD123Z IMBER FBZ 511827N 0020058W - 511811N 0015959W - 511450N 0015700W - 511438N 0015604W - 511044N 0015152W - 511012N 0015148W - 510944N 0015209W - 510925N 0015249W - 510905N 0015704W - 511009N 0020753W - 511258N 0021319W - 511346N 0021328W - 511604N 0021040W - 511802N 0020343W - 511827N 0020058W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD124 LAVINGTON A circle, 1.5 NM radius, centred at 511527N 0015812W	Upper limit: UNL Lower limit: SFC	AMC Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS: Boscombe Down ATC on 126.705 when open; SUAAIS: Salisbury Information on 122.755 when open; at other times SUAAIS via London Information on 124.750 MHz. Contact: Pre-flight information / Booking: SPTA Air Operations, Tel: 01980-674710. SI 1981/1882. Aircraft approved into Danger Areas out of hours are to make blind calls on VHF 122.755. This is a common channel also used by Pembrey, Holbeach and Donna Nook AWRs - ensure calls are specific to SPTA Danger Areas. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD124Z LAVINGTON FBZ A circle, 2.5 NM radius, centred at 511527N 0015812W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD125 LARKHILL 511828N 0015004W - 511059N 0014641W - 511023N 0015325W - 511348N 0015705W - 511339N 0015746W - 511724N 0020107W - 511807N 0015635W - 511828N 0015004W	Upper limit: 50000 FT ALT Lower limit: SFC	AMC Manageable. Vertical Limit 3000 FT ALT H24. Vertical Limit 23,000 FT ALT Mon-Thu 0800-2359 (0700-2300), Fri 0800-1730 (0700-1630). Vertical Limit OCNL notified to altitudes up to 50,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft Systems (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS: Boscombe Down ATC on 126.705 when open; SUAAIS: Salisbury Information on 122.755 when open; at other times SUAAIS via London Information on 124.750 MHz. Contact: Pre-flight information / Booking: SPTA Air Operations, Tel: 01980-674710 or 674730. SI 1965/1327, SI 1981/1882. Aircraft approved into Danger Areas out of hours are to make blind calls on VHF 122.755. This is a common channel also used by Pembrey, Holbeach and Donna Nook AWRs - ensure calls are specific to SPTA Danger Areas. SUA Authority: DAATM (DIO). Hours: See above.
EGD125Z LARKHILL FBZ 511819N 0020152W - 511906N 0015651W - 511930N 0014938W - 511905N 0014841W - 511103N 0014504W - 511037N 0014510W - 511015N 0014532W - 511001N 0014607W - 510921N 0015339W - 510935N 0015429W - 511236N 0015743W - 511235N 0015747W - 511251N 0015852W - 511707N 0020241W - 511735N 0020244W - 511801N 0020226W - 511819N 0020152W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD126 BULFORD 511621N 0013746W - 511525N 0013606W - 511247N 0013759W - 511233N 0013942W - 511044N 0014308W - 511059N 0014641W - 511351N 0014759W thence clockwise by the arc of a circle radius 5 NM centred on 510912N 0014504W to 511354N 0014225W - 511621N 0013746W	Upper limit: FL90 Lower limit: SFC	AMC Manageable. Vertical Limit 1400 FT ALT H24. Vertical Limit OCNL notified up to FL 90 by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Boscombe Down ATC on 126.705 when open; SUAAIS: Salisbury Information on 122.755 when open; at other times SUAAIS via London Information on 124.750 MHz. Contact: Pre-flight information / Booking: SPTA Air Operations, Tel: 01980-674710 or 01980-674730 or Boscombe Down ATC, Tel: 01980-663246. SI 1970/1282, SI 1981/1882. Aircraft approved into Danger Areas out of hours are to make blind calls on VHF 122.755. This is a common channel also used by Pembrey, Holbeach and Donna Nook AWRs - ensure calls are specific to SPTA Danger Areas. SUA Authority: DAATM (DIO). Hours: See above.
EGD127 PORTON 510552N 0014315W - 510632N 0014435W - 510730N 0014248W - 510801N 0014248W - 511012N 0013750W - 510752N 0013650W - 510703N 0013843W - 510552N 0014315W	Upper limit: 12000 FT ALT Lower limit: SFC	Vertical Limit 12,000 FT ALT 0600-1800 (0500-1700). Vertical Limit 8000 FT ALT 1800-0600 (1700-0500). Vertical Limit OCNL notified to altitudes up to 12,000 FT ALT by NOTAM. Activity: Para Dropping / Ordnance, Munitions and Explosives / Electronic/optical hazards / Unmanned Aircraft System (VLOS). Service: SUACS / SUAAIS: Boscombe Down Zone on 126.705 when open; at other times London Information on 124.750 MHz. Contact: Pre-flight information: Boscombe Down ATC, Tel: 01980-663246. SI 1977/1611. SUA Authority: DAATM (DIO). Hours: H24

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name **Lateral Limits**	**Upper Limit** **Lower Limit**	**Remarks** **(time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD128 EVERLEIGH 511852N 0014215W - 511621N 0013746W - 511354N 0014225W thence anti-clockwise by the arc of a circle radius 5 NM centred on 510912N 0014504W to 511351N 0014759W - 511828N 0015004W - 511852N 0014215W	Upper limit: 50000 FT ALT Lower limit: SFC	AMC Manageable Vertical Limit 1400 FT ALT H24 Vertical Limit OCNL notified to altitudes up to 50,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Boscombe Down ATC on 126.705 when open; SUAAIS: Salisbury Information on 122.755 when open; at other times SUAAIS via London Information on 124.750 MHz. Contact: Pre-flight information: SPTA Air Operations, Tel: 01980-674710 or 674730. SI 1981/1882. Aircraft approved into Danger Areas out of hours are to make blind calls on VHF 122.755. This is a common channel also used by Pembrey, Holbeach and Donna Nook AWRs - ensure calls are specific to SPTA Danger Areas. SUA Authority: DAATM (DIO). Hours: See above.
EGD128Z EVERLEIGH FBZ 511925N 0015057W - 511953N 0014203W - 511945N 0014126W - 511657N 0013627W - 511633N 0013610W - 511607N 0013611W - 511543N 0013629W - 511257N 0014144W - 511252N 0014234W thence anti-clockwise by the arc of a circle radius 4 NM centred on 510912N 0014504W to 511246N 0014757W - 511307N 0014918W - 511839N 0015148W - 511925N 0015057W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD129 WESTON-ON-THE-GREEN A circle, 2 NM radius, centred at 515246N 0011320W	Upper limit: FL120 Lower limit: SFC	Activity: Para Dropping. Service: SUAAIS: Brize Zone on 119.005. SUACS: Oxford Approach on 125.090 MHz. Contact: Pre-flight information / Booking: Brize Norton, Tel: 01993-895147. Parachuting activity up to FL 135 may be conducted with London Control (Swanwick) permission. Regular activity SR-SS to FL 85 described in ENR 5.5. SUA Authority: DAATM (HQ Air). Hours: Mon-Fri SR-SS and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD130 LONGMOOR 510559N 0005213W - 510541N 0004938W - 510446N 0004940W - 510426N 0005301W - 510559N 0005213W	Upper limit: 2300 FT ALT Lower limit: SFC	Vertical Limit 1800 FT ALT. Vertical Limit OCNL notified to altitudes up to 2300 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Farnborough Radar on 133.440 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01420-483405. SI 1982/1179. SUA Authority: DAATM (DIO). Hours: H24
EGD132 ASH RANGES 511745N 0003956W - 511623N 0003942W - 511548N 0004034W - 511524N 0004300W - 511606N 0004309W - 511638N 0004259W - 511732N 0004116W - 511745N 0003956W	Upper limit: 2500 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Farnborough Radar on 133.440 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01483-798304. SI 1983/162. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD133A PIRBRIGHT 511922N 0003907W - 511915N 0003858W - 511828N 0003951W - 511816N 0004028W - 511815N 0004103W - 511830N 0004118W - 511922N 0003907W	Upper limit: 1200 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Farnborough Radar on 133.440 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01483-798304. SUA Authority: DAATM (DIO). Hours: 0800-2359 (0700-2300); and as activated by NOTAM.
EGD133B PIRBRIGHT 512040N 0004029W - 512034N 0003957W - 511922N 0003907W - 511830N 0004118W - 511915N 0004146W - 512019N 0004158W - 512040N 0004029W	Upper limit: 2400 FT ALT Lower limit: SFC	Vertical Limit 1200 FT ALT. Vertical Limit OCNL notified to altitudes up to 2400 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Farnborough Radar on 133.440 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01483-798304. SUA Authority: DAATM (DIO). Hours: 0800-2359 (0700-2300); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD136 SHOEBURYNESS 513217N 0004804E - 513017N 0005104E - 513030N 0004700E - 513217N 0004804E	Upper limit: 13000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Southend APP on 130.780 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information: Range Control, Tel: 01702-383211 or 01702-383212. SI 1936/714. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD138A SHOEBURYNESS 514000N 0010400E - 514000N 0011613E - 513714N 0011203E - 513714N 0005536E - 514000N 0010400E	Upper limit: 60000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 6000 FT ALT. Vertical Limit OCNL notified to altitudes up to 60,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Southend APP on 130.780 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information: Range Control, Tel: 01702-383211 or 01702-383212. SI 1936/714. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD138B SHOEBURYNESS 514200N 0011124E - 514200N 0011912E - 514000N 0011613E - 514000N 0010400E - 514200N 0011124E	Upper limit: 5000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Southend APP on 130.780 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information: Range Control, Tel: 01702-383211 or 01702-383212. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD138C SHOEBURYNESS 513700N 0005455E - 513755N 0005740E - 513638N 0005850E - 513544N 0005620E - 513700N 0005455E	Upper limit: 6000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Southend APP on 130.780 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information: Range Control, Tel: 01702-383211 or 01702-383212. May be activated at the same time as EGD138A and/or EGD138D as a separate activity. SI 1936/714. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD138D SHOEBURYNESS 513714N 0005536E - 513714N 0011203E - 513000N 0005300E - 513009N 0005115E - 513217N 0004804E - 513400N 0005000E - 513500N 0005018E - 513541N 0005016E - then along the north coast of Foulness Island to 513700N 0005455E - 513714N 0005536E	Upper limit: 60000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 13,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 60,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Southend APP on 130.780 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information: Range Control, Tel: 01702-383211 or 01702-383212. SI 1936/714. SUA Authority: DAATM (DE&S). This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure. Hours: Activated by NOTAM.
EGD139 FINGRINGHOE 515000N 0005458E - 514954N 0005852E - 514833N 0005848E - 514839N 0005452E - 515000N 0005458E	Upper limit: 2000 FT ALT Lower limit: SFC	Vertical Limit 1500 FT ALT. Vertical Limit OCNL notified to altitudes up to 2000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01206-736149. SI 1974/665. SUA Authority: DAATM (DIO). Hours: H24

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD141 HYTHE RANGES 510419N 0010426E - 510212N 0010531E - 510120N 0010148E - 510158N 0010111E - 510323N 0010214E - 510419N 0010426E	Upper limit: 3200 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Lydd Approach on 120.705 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01303-225879. SI 1966/814. SUA Authority: DAATM (DIO). Hours: H24
EGD147 PONTRILAS A circle, 2 NM radius, centred at 515800N 0025300W	Upper limit: 10000 FT ALT Lower limit: SFC	Activity: Para Dropping / Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: London Information 124.750 MHz. Contact: Pre-flight information: Air Ops, 01432-357311 Ext 2369. Booking: Range Control, Tel: 01432-357311 Ext 3239. SUA Authority: DAATM (Strategic Command). Hours: H24
EGD148 KEEVIL 511744N 0021016W - 511937N 0020745W - 512055N 0020410W - 511946N 0020305W - 511705N 0020312W - 511602N 0020657W - 511701N 0020929W - 511744N 0021016W	Upper limit: 3200 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Boscombe Down ATC on 126.705. SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Salisbury Operations, Tel: 01980-674710. SUA Authority: DAATM (JHC HQ). Hours: Activated by NOTAM.
EGD201A ABERPORTH 523427N 0052148W - 520903N 0050057W - 521000N 0050822W - 521307N 0051616W - 522013N 0052151W - 523427N 0052148W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Only available above FL 145 for QinetiQ managed activity. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201AZ ABERPORTH FBZ 523447N 0052327W - 523520N 0052244W - 523530N 0052138W - 523512N 0052036W - 520914N 0045917W - 520840N 0045923W - 520813N 0045957W - 520801N 0050050W - 520904N 0050859W - 521225N 0051732W - 521959N 0052329W - 523447N 0052327W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD201B ABERPORTH 530300N 0053000W - 531500N 0053000W - 532315N 0051017W - 532255N 0050000W - 531200N 0050000W - 530715N 0045319W - 530300N 0045319W following the line of latitude to - 530300N 0053000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Only available above FL 145 for QinetiQ managed activity. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201BZ ABERPORTH FBZ 532416N 0051046W - 532353N 0045915W - 532319N 0045820W - 531222N 0045820W - 530737N 0045139W - 530235N 0045140W - 530200N 0045238W following the line of latitude to - 530200N 0053000W - 531613N 0053000W - 532416N 0051046W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD201C ABERPORTH 525019N 0045319W - 524500N 0044018W - 524500N 0045319W - 525019N 0045319W	Upper limit: UNL Lower limit: FL145	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. SI 1976/64. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201CZ1 ABERPORTH FBZ 525120N 0045341W - 525118N 0045247W - 524539N 0043856W - 524501N 0043834W - 524424N 0043853W - 524400N 0043945W following the line of latitude to - 524400N 0045400W - 524435N 0045458W - 525036N 0045458W - 525105N 0045430W - 525120N 0045341W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD201CZ5 ABERPORTH FBZ 525523N 0045511W - 525514N 0045036W - 524813N 0043326W - 524506N 0043138W - 524157N 0043314W - 524000N 0043736W following the line of latitude to - 524000N 0045643W - 524255N 0050132W - 525142N 0050134W - 525405N 0045913W - 525523N 0045511W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD201D ABERPORTH 531035N 0053000W - 530300N 0051612W following the line of latitude to - 530300N 0053000W - 531035N 0053000W	Upper limit: UNL Lower limit: FL55	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. SI 1976/64. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201DZ1 ABERPORTH FBZ 531136N 0053000W - 531132N 0052915W - 530332N 0051442W - 530256N 0051428W - 530221N 0051450W - 530200N 0051541W following the line of latitude to - 530200N 0053000W - 531136N 0053000W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD201DZ5 ABERPORTH FBZ 531539N 0053000W - 531517N 0052613W - 530538N 0050842W - 530237N 0050733W - 525945N 0050925W - 525800N 0051338W following the line of latitude to - 525800N 0053000W - 531539N 0053000W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD201F ABERPORTH 521236N 0052244W - 521000N 0050822W - 520903N 0050057W - 520840N 0043847W - 520612N 0044900W - 520816N 0051829W - 521236N 0052244W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Only available above FL 145 for QinetiQ managed activity. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201FZ ABERPORTH FBZ 521339N 0052245W - 521058N 0050758W - 521003N 0050046W - 520939N 0043809W - 520911N 0043717W - 520829N 0043705W - 520752N 0043739W - 520511N 0044847W - 520718N 0051902W - 520733N 0051941W - 521221N 0052423W - 521258N 0052419W - 521327N 0052342W - 521339N 0052245W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD201G ABERPORTH 524417N 0053000W - 523427N 0052148W - 522013N 0052151W - 521307N 0051616W - 521000N 0050822W - 521236N 0052244W - 522000N 0053000W - 524417N 0053000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Only available above FL 145 for QinetiQ managed activity. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201GZ ABERPORTH FBZ 524523N 0053000W - 524503N 0052847W - 523441N 0052010W - 522026N 0052013W - 521348N 0051500W - 521039N 0050658W - 520956N 0050638W - 520915N 0050708W - 520856N 0050814W - 521145N 0052347W - 521921N 0053116W - 522000N 0053000W - 524523N 0053000W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD201H ABERPORTH 523000N 0051806W following the line of latitude to - 523000N 0041200W - 521600N 0041200W - 521000N 0042942W - 520848N 0042904W - 520702N 0043810W - 520840N 0043847W - 520903N 0050057W - 523000N 0051806W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. SI 1976/64. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201HZ1 ABERPORTH FBZ 523100N 0051832W following the line of latitude to - 523100N 0041119W - 523025N 0041022W - 521544N 0041022W - 521515N 0041050W - 520932N 0042745W - 520843N 0042719W - 520759N 0042756W - 520601N 0043800W - 520603N 0043840W - 520616N 0043916W - 520636N 0043940W - 520741N 0044005W - 520804N 0050127W - 520821N 0050212W - 522947N 0051945W - 523018N 0051943W - 523045N 0051916W - 523100N 0051832W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD201HZ5 ABERPORTH FBZ 523500N 0052014W following the line of latitude to - 523500N 0040837W - 523204N 0040349W - 521438N 0040352W - 521217N 0040608W - 520708N 0042120W - 520440N 0042324W - 520157N 0043719W - 520210N 0044041W - 520312N 0044338W - 520346N 0044420W - 520406N 0050324W - 520535N 0050712W - 522855N 0052622W - 523131N 0052611W - 523344N 0052357W - 523500N 0052014W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD201J ABERPORTH 530300N 0053000W following the line of latitude to - 530300N 0045319W - 524500N 0045319W following the line of latitude to - 524500N 0044018W - 523316N 0041200W - 523000N 0041200W following the line of latitude to - 523000N 0051806W - 524417N 0053000W - 530300N 0053000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. SI 1976/64. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201JZ1 ABERPORTH FBZ 530400N 0053000W following the line of latitude to - 530400N 0045238W - 530325N 0045140W - 524600N 0045140W following the line of latitude to - 524600N 0043948W - 523357N 0041044W - 523331N 0041022W - 522935N 0041022W - 522900N 0041120W following the line of latitude to - 522900N 0051833W - 522918N 0051921W - 524205N 0053000W - 530400N 0053000W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD201JZ5 ABERPORTH FBZ 530800N 0053000W following the line of latitude to - 530800N 0044956W - 530506N 0044501W - 525000N 0044504W following the line of latitude to - 525000N 0043746W - 523641N 0040541W - 523430N 0040348W - 522756N 0040350W - 522500N 0040837W following the line of latitude to - 522500N 0052031W - 522632N 0052424W - 523316N 0053000W - 530800N 0053000W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD201K ABERPORTH 522000N 0053000W - 520816N 0051829W - 521038N 0053000W - 522000N 0053000W	Upper limit: FL145 Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Target Towing / Balloons / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD201KZ ABERPORTH FBZ 522104N 0053000W - 522048N 0052853W - 521307N 0052120W - 520831N 0051650W - 520753N 0051654W - 520724N 0051732W - 520713N 0051831W - 520947N 0053101W - 521019N 0053137W - 521910N 0053138W - 522000N 0053000W - 522104N 0053000W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD202A WEST WALES 521250N 0042121W - 521600N 0041200W - 521545N 0040958W - 520135N 0041430W - 520019N 0042519W - 521250N 0042121W	Upper limit: FL100 Lower limit: FL60	AMC - Manageable. Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Pilots will be required to comply with ATC instructions whilst crossing EGD202A and will be provided with an appropriate Flight Information Service. Pilots who may be unable to comply with ATC instructions should not request a crossing clearance. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD202AZ WEST WALES FBZ 521703N 0041216W - 521639N 0040859W - 521558N 0040814W - 520105N 0041300W - 520040N 0041343W - 515917N 0042525W - 515926N 0042611W - 515947N 0042645W - 520016N 0042659W - 521315N 0042253W - 521336N 0042227W - 521703N 0041216W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD202B WEST WALES 521250N 0042121W - 521600N 0041200W - 521433N 0040004W - 520320N 0040343W - 520545N 0042336W - 521250N 0042121W	Upper limit: FL225 Lower limit: FL100	AMC - Manageable. Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Pilots will be required to comply with ATC instructions whilst crossing EGD202B and will be provided with an appropriate Flight Information Service. Pilots who may be unable to comply with ATC instructions should not request a crossing clearance. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD202BZ WEST WALES FBZ 521703N 0041216W - 521527N 0035905W - 521446N 0035820W - 520244N 0040216W - 520216N 0040323W - 520451N 0042434W - 520532N 0042519W - 521315N 0042253W - 521336N 0042227W - 521703N 0041216W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD202C WEST WALES 521433N 0040004W - 521047N 0033002W - 520721N 0033015W - 520501N 0033532W - 520211N 0034019W - 520030N 0034053W - 520320N 0040343W - 521433N 0040004W	Upper limit: FL225 Lower limit: FL100	AMC - Manageable. Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Pilots will be required to comply with ATC instructions whilst crossing EGD202C and will be provided with an appropriate Flight Information Service. Pilots who may be unable to comply with ATC instructions should not request a crossing clearance. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD202CZ WEST WALES FBZ 521537N 0040024W - 521141N 0032907W - 521107N 0032823W - 520705N 0032839W - 520640N 0032900W - 520415N 0033430W - 520141N 0033850W - 515954N 0033926W - 515926N 0034033W - 520226N 0040441W - 520307N 0040526W - 521509N 0040132W - 521537N 0040024W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD202D WEST WALES 520840N 0043847W - 520702N 0043810W - 520848N 0042904W - 521000N 0042942W - 521250N 0042121W - 520019N 0042519W - 515840N 0043902W - 520555N 0044130W thence clockwise by the arc of a circle radius 5 NM centred on 520653N 0043334W to 520801N 0044128W - 520840N 0043847W	Upper limit: FL125 Lower limit: SFC	AMC - Manageable. Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Aberporth Radar on 120.835 MHz / 244.575 MHz, or West Wales Radar on 127.090 MHz. SUAAIS: West Wales Information on 122.155 MHz. Contact: Pre-flight information: Range Control, Tel: 01239-813219. Pilots will be required to comply with ATC instructions whilst crossing EGD202D and will be provided with an appropriate Flight Information Service. Pilots who may be unable to comply with ATC instructions should not request a crossing clearance. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD202DZ WEST WALES FBZ 520927N 0043743W - 520906N 0043717W - 520818N 0043659W - 520927N 0043107W - 521002N 0043125W - 521042N 0043100W - 521351N 0042143W - 521349N 0042046W - 521328N 0042001W - 521256N 0041940W - 515950N 0042349W - 515924N 0042431W - 515736N 0043922W - 515804N 0044029W - 520543N 0044307W thence clockwise by the arc of a circle radius 6 NM centred on 520653N 0043334W to 520830N 0044256W - 520852N 0044225W - 520940N 0043903W - 520939N 0043820W - 520927N 0043743W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD203 SENNYBRIDGE 520743N 0032924W - 520613N 0032645W - 520451N 0032532W - 520252N 0032804W - 520156N 0032943W - 520150N 0033139W - 515858N 0033729W - 515815N 0033935W - 515947N 0034105W - 520211N 0034019W - 520501N 0033532W - 520743N 0032924W	Upper limit: 23000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 23,000 FT ALT Mon-Fri 0800-1800 (0700-1700). Vertical Limit 18,000 FT ALT Mon-Fri 1800-0800 (1700-0700), Fri 1800 (1700) - Mon 0800 (0700). Vertical Limit OCNL notified to altitudes up to 23,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01874-635599. SI 1974/1773. SUA Authority: DAATM (DIO). Hours: H24
EGD203Z SENNYBRIDGE FBZ 520844N 0032952W - 520841N 0032844W - 520650N 0032527W - 520504N 0032353W - 520428N 0032358W - 520211N 0032653W - 520058N 0032902W - 520052N 0033102W - 515808N 0033635W - 515711N 0033922W - 515723N 0034038W - 515936N 0034247W - 520241N 0034148W - 520547N 0033634W - 520844N 0032952W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD207 HOLBEACH 524830N 0001200E - 525400N 0000633E thence clockwise by the arc of a circle radius 6.5 NM centred on 525000N 0001500E to 525300N 0002430E - 524830N 0002000E - 524830N 0001200E	Upper limit: 23000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / High Energy Manoeuvres / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS: Holbeach Range on 122.755 when open. SUAAIS: Holbeach Range on 122.755 when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information: Range Ops, Tel: 01406-550083. Booking: Range ATC, Tel: 01406-550364 Ext 7119. Airborne bookings and free-calling aircraft accepted subject to availability. Associated aircraft operations outside area boundary. 122.755 is a common channel also used by Donna Nook and Pembrey AWRs. Ensure crossing clearance request is specific to Holbeach AWR. SI 1939/1608. UAS BVLOS will not be conducted above 18,000 FT ALT (12,000 FT ALT in the event of the activation of Contingency ATS Route T999). SUA Authority: DAATM (DIO). Hours: Mon-Thu 0900-1700 (0800-1600), Fri 0900-1200 (0800-1100). September - April inclusive Tue, Thu 1700-2200 (1600-2100); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD208 STANFORD 523315N 0004050E - 523320N 0004500E - 523255N 0004800E - 523045N 0005000E - 522650N 0005050E - 522620N 0004830E - 522800N 0004500E - 522900N 0003900E - 523100N 0004000E - 523315N 0004050E	Upper limit: 7500 FT ALT Lower limit: SFC	Vertical Limit 2500 FT ALT. Vertical Limit OCNL notified to altitudes up to 7500 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: Lakenheath Zone on 128.900 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01842-855367. SI 1970/909 & SI 1975/24 (Amendment). SUA Authority: DAATM (DIO). Hours: H24
EGD211 SWYNNERTON A circle, 0.5 NM radius, centred at 525352N 0021312W	Upper limit: 2400 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01785-763134. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD213 KINETON A circle, 700 M radius, centred at 520902N 0012656W	Upper limit: 2400 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives. Service: SUAAIS: Coventry Information on 123.830 MHz when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01869-257489. SUA Authority: DAATM (HQ Land). Hours: Activated by NOTAM.
EGD216 CREDENHILL A circle, 2 NM radius, centred at 520453N 0024806W	Upper limit: 10000 FT ALT Lower limit: SFC	Vertical Limit 2300 FT ALT. Vertical Limit OCNL notified to altitudes up to 10,000 FT ALT by NOTAM. Activity: Para Dropping / Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: London Information on 124.750 MHz. Contact: Pre-flight information: Air Ops, 01432-357311 Ext 2369. Booking: Range Control, Tel: 01432-357311 Ext 3239. SUA Authority: DAATM (Strategic Command). Hours: H24
EGD217A LLANBEDR 525022N 0040522W - 524617N 0040510W thence clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 525022N 0040522W	Upper limit: 2000 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD217B LLANBEDR 525306N 0040947W - 525028N 0040939W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 524617N 0040510W - 524333N 0040503W thence clockwise by the arc of a circle radius 5 NM centred on 524817N 0040738W to 525306N 0040947W	Upper limit: 2000 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217C LLANBEDR 524942N 0041102W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 524617N 0040510W - 524603N 0040510W - 523933N 0041231W - 524222N 0041917W - 524942N 0041102W	Upper limit: 2000 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217D LLANBEDR 524222N 0041917W - 523933N 0041231W - 523526N 0041712W - 523816N 0042359W - 524222N 0041917W	Upper limit: 6000 FT ALT Lower limit: 2000 FT ALT	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217E LLANBEDR 525307N 0040530W thence clockwise by the arc of a circle radius 5 NM centred on 524817N 0040738W to 524333N 0040503W - 525307N 0040530W	Upper limit: 2000 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217F LLANBEDR 525306N 0040947W thence clockwise by the arc of a circle radius 5 NM centred on 524817N 0040738W to 525307N 0040530W - 525022N 0040522W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 525028N 0040939W - 525306N 0040947W	Upper limit: 2000 FT ALT Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217G LLANBEDR 525022N 0040522W - 524617N 0040510W thence clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 525022N 0040522W	Upper limit: 6000 FT ALT Lower limit: 2000 FT ALT	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD217H LLANBEDR 525306N 0040947W - 525028N 0040939W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 524617N 0040510W - 524333N 0040503W thence clockwise by the arc of a circle radius 5 NM centred on 524817N 0040738W to 525306N 0040947W	Upper limit: 6000 FT ALT Lower limit: 2000 FT ALT	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217I LLANBEDR 524942N 0041102W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 524617N 0040510W - 524603N 0040510W - 523933N 0041231W - 524222N 0041917W - 524942N 0041102W	Upper limit: 6000 FT ALT Lower limit: 2000 FT ALT	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217J LLANBEDR 525307N 0040530W thence clockwise by the arc of a circle radius 5 NM centred on 524817N 0040738W to 524333N 0040503W - 525307N 0040530W	Upper limit: 6000 FT ALT Lower limit: 2000 FT ALT	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD217K LLANBEDR 525306N 0040947W thence clockwise by the arc of a circle radius 5 NM centred on 524817N 0040738W to 525307N 0040530W - 525022N 0040522W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524817N 0040738W to 525028N 0040939W - 525306N 0040947W	Upper limit: 6000 FT ALT Lower limit: 2000 FT ALT	Activity: Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Test and Evaluation. Service: SUAAIS Llanbedr Information on 118.930 MHz. Contact: Llanbedr Information, Tel: 01341-241356. SUA Authority: Snowdonia Aerospace. Hours: Activated by NOTAM.
EGD218A FAIRFORD 514815N 0013543W - 514016N 0013518W - 513958N 0014917W - 514110N 0015928W - 514744N 0015952W - 514815N 0013543W	Upper limit: FL75 Lower limit: SFC	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight with an Indicated Airspeed (IAS) of 150 KTS or less (BVLOS less than 150 KTS). Service: SUACS: Brize Radar on 124.280. SUAAIS: London Information on 124.750 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: HN Activated by NOTAM. Only available HN.
EGD218AZ FAIRFORD FBZ 514915N 0013506W - 514841N 0013407W - 513953N 0013341W - 513916N 0013435W - 513858N 0014925W - 514015N 0020019W - 514047N 0020103W - 514806N 0020130W - 514843N 0020035W - 514915N 0013506W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD218B FAIRFORD 520518N 0020404W - 514803N 0014539W - 514749N 0015601W - 514901N 0020407W - 515342N 0022132W - 520518N 0020404W	Upper limit: FL240 Lower limit: FL50	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight with an Indicated Airspeed (IAS) of 150 KTS or less (BVLOS less than 150 KTS). Service: SUACS: Below FL160 Brize Radar on 124.280. At/above FL160 Swanwick Mil on 128.700 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: HN Activated by NOTAM.
EGD218BZ FAIRFORD FBZ 520620N 0020443W - 520615N 0020309W - 514806N 0014347W - 514704N 0014439W - 514649N 0015611W - 514804N 0020438W - 515259N 0022256W - 515359N 0022317W - 520620N 0020443W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD218C FAIRFORD 521533N 0021510W - 520518N 0020404W - 515342N 0022132W - 515701N 0023402W - 520117N 0023842W - 521533N 0021510W	Upper limit: FL660 Lower limit: FL160	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight with an Indicated Airspeed (IAS) of 150 KTS or less (BVLOS less than 150 KTS). Service: SUACS: Swanwick Mil on 128.700 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: HN Activated by NOTAM.
EGD218CZ FAIRFORD FBZ 521636N 0021545W - 521630N 0021414W - 520534N 0020225W - 520452N 0020230W - 515247N 0022042W - 515239N 0022142W - 515613N 0023507W - 520102N 0024022W - 520145N 0024015W - 521636N 0021545W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD218D FAIRFORD 523258N 0023414W - 521533N 0021510W - 520117N 0023842W - 521342N 0025221W - 522607N 0025118W - 523258N 0023414W	Upper limit: FL660 Lower limit: FL200	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight with an Indicated Airspeed (IAS) of 150 KTS or less (BVLOS less than 150 KTS). Service: SUACS: Swanwick Mil on 128.700 MHz. SUAAIS: London Information on 124.750 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: HN Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD218DZ FAIRFORD FBZ 523402N 0023434W - 523352N 0023315W - 521549N 0021329W - 521506N 0021336W - 520015N 0023806W - 520020N 0023937W - 521325N 0025400W - 522640N 0025253W - 523402N 0023434W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD219A RPAS CORRIDOR 523258N 0023414W - 521159N 0010428W - 515150N 0015658W - 515342N 0022132W - 520518N 0020404W - 521533N 0021510W - 523258N 0023414W	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil 128.700 MHz and 252.875 MHz. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD219AZ RPAS CORRIDOR FBZ 523402N 0023434W - 523356N 0023347W - 521248N 0010326W - 521221N 0010253W - 521147N 0010248W - 521117N 0010313W - 515048N 0015636W - 515243N 0022157W - 515259N 0022256W - 515359N 0022317W - 520524N 0020608W - 521500N 0021631W - 523246N 0023558W - 523335N 0023542W - 523402N 0023434W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD219B RPAS CORRIDOR 521159N 0010428W - 515209N 0002013E - 511010N 0020000E - 510700N 0020000E - 510000N 0012800E - 504741N 0012800E - 512521N 0000155W - 515150N 0015658W - 521159N 0010428W	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil 128.250 MHz and 275.625 MHz. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD219BZ RPAS CORRIDOR FBZ 521305N 0010438W - 515303N 0002058E - 511123N 0020000E - 510700N 0020000E - 510000N 0012800E - 504629N 0012800E - 512428N 0000238W - 515059N 0015757W - 515126N 0015831W - 515200N 0015837W - 515231N 0015813W - 521305N 0010438W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD219C RPAS CORRIDOR 520402N 0024142W - 520117N 0023842W - 515701N 0023402W - 515342N 0022132W - 515150N 0015658W - 504056N 0030505W - 504551N 0031812W - 502653N 0035344W - 495214N 0054210W - 494259N 0054242W - 494501N 0080000W - 501459N 0080000W - 501305N 0054702W - 504346N 0041101W - 505821N 0034349W - 520402N 0024142W	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil 135.150 MHz and 278.600 MHz. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD219CZ RPAS CORRIDOR FBZ 520503N 0024120W - 520449N 0024036W - 520151N 0023721W - 515749N 0023258W - 515440N 0022106W - 515248N 0015622W - 515230N 0015541W - 515202N 0015520W - 515132N 0015523W - 504004N 0030404W - 503952N 0030519W - 504438N 0031803W - 502603N 0035252W - 495136N 0054039W - 494232N 0054112W - 494158N 0054208W - 494401N 0080000W - 501559N 0080000W - 501405N 0054723W - 504436N 0041153W - 505900N 0034502W - 520446N 0024253W - 520502N 0024210W - 520503N 0024120W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD219D RPAS CORRIDOR 541133N 0032854E - 540746N 0040240E - 540539N 0040158E - 530557N 0031042E - 524840N 0021314E - 523658N 0001000E - 521159N 0010428W - 522555N 0020321W - 530539N 0000624W - 531758N 0020208E - 530822N 0020426E - 532053N 0024556E - 541133N 0032854E	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil 135.075 MHz and 270.050 MHz. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD219DZ RPAS CORRIDOR FBZ 541236N 0032839E - 540840N 0040341E - 540758N 0040428E - 540519N 0040335E - 530512N 0031156E - 524742N 0021345E - 523601N 0001033E - 521100N 0010359W - 521058N 0010443W - 522505N 0020422W - 522533N 0020456W - 522607N 0020501W - 522638N 0020434W - 530637N 0000657W - 531901N 0020235E - 531831N 0020341E - 530953N 0020545E - 532138N 0024441E - 541218N 0032738E - 541236N 0032839E	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD219E RPAS CORRIDOR 550713N 0032945E - 542838N 0040016E - 540954N 0040323E - 540746N 0040240E - 541327N 0031125E - 550713N 0032945E	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil 135.075 MHz and 270.050 MHz. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD219EZ RPAS CORRIDOR FBZ 550815N 0033007E - 550755N 0033106E - 542854N 0040157E - 540951N 0040506E - 540710N 0040412E - 540642N 0040302E - 541233N 0031024E - 541306N 0030946E - 541330N 0030941E - 550744N 0032809E - 550810N 0032859E - 550815N 0033007E	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD219F RPAS CORRIDOR 574624N 0034913E - 572157N 0042700E - 555234N 0025227E - 550713N 0032945E - 541327N 0031125E - 542038N 0031004E - 555336N 0015228E - 574624N 0034913E	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil on 135.075 MHz and 270.050 MHz south of 55 degrees north and from Swanwick Mil on 136.375 MHz and 251.250 MHz north of 55 degrees north. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD219FZ RPAS CORRIDOR FBZ 574713N 0034756E - 572108N 0042815E - 555232N 0025427E - 550720N 0033134E - 541254N 0031258E - 541224N 0031152E - 541233N 0031024E - 541306N 0030946E - 542021N 0030824E - 555323N 0015040E - 555352N 0015042E - 574713N 0034756E	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD219G RPAS CORRIDOR 564619N 0050000E - 554346N 0050000E - 550313N 0042135E - 540954N 0040323E - 542838N 0040016E - 550713N 0032945E - 551315N 0033144E - 564619N 0050000E	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil on 135.075 MHz and 270.050 MHz south of 55 degrees north and from Swanwick Mil on 136.375 MHz and 251.250 MHz north of 55 degrees north. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD219GZ RPAS CORRIDOR FBZ 564719N 0050000E - 554141N 0050000E - 550253N 0042314E - 540921N 0040455E - 540853N 0040356E - 540856N 0040240E - 540926N 0040145E - 542823N 0035835E - 550705N 0032756E - 551335N 0033004E - 564719N 0045855E - 564719N 0050000E	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD219H RPAS CORRIDOR 610000N 0073143W - 581543N 0055534W - 561337N 0044446W - 553714N 0023450W - 535608N 0021918W - 522603N 0020353W - 523258N 0023414W - 522607N 0025118W - 521902N 0025154W - 535306N 0030946W - 551801N 0032431W - 555211N 0052852W - 580650N 0064941W - 610000N 0083622W - 610000N 0073143W	Upper limit: FL660 Lower limit: FL500	AMC - Manageable. Activity: Unmanned Aircraft System Beyond Visual Line Of Sight. Service: SUACS: Swanwick Mil on 128.700 MHz and 252.875 MHz south of 53 degrees north and from Swanwick Mil on 127.450 MHz and 282.125 MHz north of 53 degrees north. Contact: Booking: Military Airspace Management Cell - Managed Airspace, Tel: 01489-612495. Danger Area Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD219HZ RPAS CORRIDOR FBZ 610000N 0072934W - 581600N 0055345W - 561420N 0044317W - 553800N 0023338W - 553734N 0023307W - 535614N 0021737W - 522553N 0020213W - 522524N 0020234W - 522506N 0020314W - 522501N 0020404W - 523152N 0023401W - 522533N 0024943W - 521835N 0025018W - 521802N 0025113W - 521801N 0025229W - 521832N 0025327W - 535300N 0031127W - 551723N 0032609W - 555128N 0053020W - 580631N 0065129W - 610000N 0083832W - 610000N 0072934W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
EGD220A MARHAM A circle, 5 NM radius, centred at 523854N 0003302E	Upper limit: FL105 Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS. Marham ATC on 124.155. SUAAIS: London Information on 124.600 MHz. Contact: Marham ATC, Tel: 01760-337261. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD220B MARHAM A circle, 5 NM radius, centred at 523854N 0003302E	Upper limit: FL195 Lower limit: FL105	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS. Marham ATC on 124.155. SUAAIS: London Information on 124.600 MHz. Contact: Marham ATC, Tel: 01760-337261. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD304 UPPER HULME A circle, 1.5 NM radius, centred at 530951N 0015730W	Upper limit: 3500 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Manchester APP on 118.580 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01785-763134. SI 1985/1082. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD305 BECKINGHAM 530554N 0004134W - 530542N 0004034W - 530427N 0004044W - 530428N 0004205W - 530534N 0004217W - 530554N 0004134W	Upper limit: 1500 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 07769-730481. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD307 DONNA NOOK 532331N 0001354E - 532932N 0000503E thence clockwise by the arc of a circle radius 5 NM centred on 532830N 0001315E to 532331N 0001354E	Upper limit: 23000 FT ALT Lower limit: SFC	Vertical Limit 20,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 23,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / High Energy Manoeuvres / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUACS: Donna Nook Range on 122.755 when open. SUAAIS: Donna Nook Range on 122.755 when open; at other times London Information on 124.600 MHz. Contact: Pre-flight information / Booking: Range ATC, Tel: 01507-359126. Associated aircraft operations outside area boundary. 122.755 is a common channel also used by Holbeach and Pembrey AWRs. Ensure crossing clearance request is specific to Donna Nook AWR. SI 1939/451. SUA Authority: DAATM (DIO). Hours: Mon-Thu 0900-1630 (0800-1530), Fri 0900-1500 (0800-1400). September-April inclusive Mon, Wed 1630-2200 (1530-2100); and as Activated by NOTAM.
EGD314 HARPUR HILL A circle, 0.5 NM radius, centred at 531343N 0015528W	Upper limit: 2900 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives. Service: SUAAIS: Manchester APP on 118.580 MHz. Contact: HSE (The Health and Safety Executive), Tel: 0203-028 2000. SUA Authority: DAATM (DIO). Hours: Mon-Fri 0800-1900 (0700-1800).
EGD323A SOUTHERN COMPLEX 551710N 0001428E - 550143N 0011753E - 543102N 0003132W - 544841N 0005456W - 545744N 0005457W - 551710N 0001428E	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323AZ SOUTHERN COMPLEX FBZ 552208N 0001223E - 552211N 0001607E - 550542N 0012342E - 550315N 0012632E - 550018N 0012636E - 545749N 0012353E - 542546N 0003027W - 542634N 0003628W - 544658N 0010334W - 545909N 0010338W - 550134N 0010102W - 552208N 0001223E	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD323B SOUTHERN COMPLEX 550143N 0011753E - 545059N 0020010E - 541451N 0001028W - 543102N 0003132W - 550143N 0011753E	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323BZ SOUTHERN COMPLEX FBZ 550641N 0011553E - 550643N 0011938E - 545456N 0020602E - 545228N 0020848E - 544932N 0020849E - 544703N 0020604E - 540935N 0000926W - 541024N 0001524W - 542853N 0003931W - 543103N 0004020W - 543314N 0003928W - 543459N 0003706W - 550641N 0011553E	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323C SOUTHERN COMPLEX 545059N 0020010E - 544532N 0022109E - 540644N 0000002W - 541451N 0001028W - 545059N 0020010E	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323CZ SOUTHERN COMPLEX FBZ 545559N 0015818E - 545558N 0020202E - 544928N 0022703E - 544659N 0022948E - 544403N 0022947E - 544135N 0022701E - 540127N 0000058E - 540217N 0000458W - 541342N 0001941W - 541817N 0001751W - 545559N 0015818E	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323D SOUTHERN COMPLEX 544532N 0022109E - 543948N 0024252E - 543143N 0025434E - 541738N 0030110E - 533813N 0003557E - 540644N 0000002W - 544532N 0022109E	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD323DZ SOUTHERN COMPLEX FBZ 545031N 0021918E - 545031N 0022302E - 544352N 0024813E - 543405N 0030222E - 541709N 0031013E - 541349N 0030729E - 533256N 0003652E - 533348N 0003100E - 540437N 0000757W - 540648N 0000844W - 540858N 0000752W - 541043N 0000530W - 545031N 0021918E	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323E SOUTHERN COMPLEX 541738N 0030110E - 541733N 0030112E - 535535N 0025714E - 532807N 0024241E - 533813N 0003557E - 541738N 0030110E	Upper limit: FL660 Lower limit: FL50	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323EZ SOUTHERN COMPLEX FBZ 542239N 0025926E - 542237N 0030310E - 542140N 0030632E - 542000N 0030855E - 541757N 0030951E - 535433N 0030533E - 532452N 0024944E - 532254N 0024430E - 533327N 0003211E - 533545N 0002808E - 533902N 0002712E - 534159N 0002946E - 542239N 0025926E	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323F SOUTHERN COMPLEX 545744N 0005457W - 544841N 0005456W - 542402N 0005518W - 544229N 0011251W - 545210N 0010815W - 545513N 0010343W - 545744N 0005457W	Upper limit: FL660 Lower limit: FL150	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323FZ SOUTHERN COMPLEX FBZ 550247N 0005649W - 550240N 0005218W - 550118N 0004828W - 545902N 0004616W - 544839N 0004618W - 542217N 0004646W - 541937N 0005023W - 541847N 0005602W - 542008N 0010123W - 544055N 0012112W - 544251N 0012136W - 545434N 0011605W - 545914N 0010910W - 550247N 0005649W	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD323G SOUTHERN COMPLEX 544841N 0005456W - 543102N 0003132W - 542402N 0005518W - 544841N 0005456W	Upper limit: FL660 Lower limit: FL150	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323GZ SOUTHERN COMPLEX FBZ 545019N 0010334W - 545254N 0010019W - 545355N 0005505W - 545259N 0004947W - 543310N 0002333W - 543059N 0002245W - 542849N 0002337W - 542704N 0002559W - 541900N 0005325W - 541906N 0005754W - 542029N 0010142W - 542246N 0010352W - 545019N 0010334W	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323H SOUTHERN COMPLEX 543102N 0003132W - 541451N 0001028W - 540726N 0003547W - 542402N 0005518W - 543102N 0003132W	Upper limit: FL660 Lower limit: FL150	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323HZ SOUTHERN COMPLEX FBZ 543618N 0003237W - 543529N 0002635W - 541559N 0000115W - 541125N 0000306W - 540208N 0003450W - 540304N 0004059W - 542304N 0010432W - 542727N 0010239W - 543618N 0003237W	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323J SOUTHERN COMPLEX 541451N 0001028W - 540644N 0000002W - 535908N 0002606W - 540726N 0003547W - 541451N 0001028W	Upper limit: FL660 Lower limit: FL150	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD323JZ SOUTHERN COMPLEX FBZ 542007N 0001130W - 541917N 0000531W - 540751N 0000910E - 540317N 0000718E - 535350N 0002509W - 535446N 0003117W - 540629N 0004459W - 541053N 0004304W - 542007N 0001130W	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323K SOUTHERN COMPLEX 540644N 0000002W - 533813N 0003557E - 534331N 0000805W - 535908N 0002606W - 540644N 0000002W	Upper limit: FL660 Lower limit: FL150	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323KZ SOUTHERN COMPLEX FBZ 541200N 0000102W - 541110N 0000456E - 533956N 0004416E - 533650N 0004426E - 533413N 0004136E - 533301N 0003648E - 533901N 0001306W - 535811N 0003515W - 540235N 0003320W - 541200N 0000102W	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323L SOUTHERN COMPLEX 552430N 0004952E - 550944N 0014759E - 550143N 0011753E - 551710N 0001428E - 552430N 0004952E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323LZ SOUTHERN COMPLEX FBZ 552931N 0004829E - 552927N 0005151E - 551257N 0015641E - 550632N 0015642E - 545644N 0011953E - 545642N 0011608E - 551352N 0000537E - 552040N 0000551E - 552931N 0004829E	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD323M SOUTHERN COMPLEX 550944N 0014759E - 545840N 0022938E - 545059N 0020010E - 550143N 0011753E - 550944N 0014759E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD323MZ SOUTHERN COMPLEX FBZ 551443N 0014603E - 551443N 0014952E - 550234N 0023538E - 550005N 0023820E - 545709N 0023817E - 545443N 0023530E - 544600N 0020203E - 544559N 0015820E - 545743N 0011205E - 550010N 0010914E - 550306N 0010909E - 550536N 0011152E - 551443N 0014603E	Upper limit: As Per AUP / UUP Lower limit: FL245	
EGD323N SOUTHERN COMPLEX 545840N 0022938E - 544951N 0023752E - 544532N 0022109E - 545059N 0020010E - 545840N 0022938E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323NZ SOUTHERN COMPLEX FBZ 550401N 0022912E - 550246N 0023540E - 545117N 0024620E - 544913N 0024637E - 544715N 0024527E - 544543N 0024301E - 544032N 0022300E - 544032N 0021918E - 544701N 0015419E - 544929N 0015132E - 545226N 0015130E - 545454N 0015414E - 550401N 0022912E	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only
EGD323P SOUTHERN COMPLEX 544951N 0023752E - 543143N 0025434E - 543948N 0024252E - 544532N 0022109E - 544951N 0023752E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323PZ SOUTHERN COMPLEX FBZ 545513N 0023726E - 545356N 0024353E - 543221N 0030342E - 542838N 0030205E - 542630N 0025638E - 542702N 0025007E - 543543N 0023732E - 544135N 0021517E - 544403N 0021232E - 544700N 0021231E - 544928N 0021517E - 545513N 0023726E	Upper limit: As Per AUP / UUP Lower limit: FL245	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD323Q SOUTHERN COMPLEX 553347N 0013625E - 553150N 0015622E - 551616N 0021300E - 550944N 0014759E - 552430N 0004952E - 553347N 0013625E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323QZ SOUTHERN COMPLEX FBZ 553855N 0013540E - 553634N 0015946E - 553521N 0020254E - 551656N 0022231E - 551239N 0022011E - 550445N 0014954E - 550444N 0014607E - 552116N 0004055E - 552803N 0004117E - 553855N 0013540E	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD323R SOUTHERN COMPLEX 551616N 0021300E - 545840N 0022938E - 550944N 0014759E - 551616N 0021300E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards / Unmanned Aircraft System (BVLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM. Not available Sat/Sun/PH.
EGD323RZ SOUTHERN COMPLEX FBZ 552137N 0021232E - 552022N 0021903E - 545751N 0024015E - 545237N 0023137E - 550631N 0013917E - 551255N 0013914E - 552137N 0021232E	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD324A WADDINGTON LOW A circle, 5 NM radius, centred at 530958N 0003126W	Upper limit: FL105 Lower limit: SFC	Activity: Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres. Service: SUACS: Waddington ATC on 119.505. SUAAIS: London Information on 124.600 MHz. Contact: Waddington ATC, Tel: 01522-727451/727452. High energy manoeuvres related to display flying training only. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD324B WADDINGTON MEDIUM 531343N 0004324W - 530818N 0001452W - 525556N 0002123W - 530120N 0004950W - 531343N 0004324W	Upper limit: FL195 Lower limit: FL105	Activity: Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Waddington ATC on 119.505. SUAAIS: London Information on 124.600 MHz. Contact: Waddington ATC, Tel: 01522-727451/727452. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD401 BALLYKINLER 541334N 0054612W - 541256N 0054734W - 541316N 0055038W - 541440N 0054940W - then along the river to 541526N 0055010W - 541525N 0054718W - 541334N 0054612W	Upper limit: 3200 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 02844-610392. SI 1940/756. SUA Authority: DAATM (DIO). Hours: 0800-2359 (0700-2300).
EGD402A LUCE BAY (N) 550332N 0050509W - 545600N 0045800W - 545600N 0044744W - 544650N 0043837W - 545008N 0044939W - 545100N 0044946W - 545217N 0045134W - 545208N 0045404W - 544953N 0045653W - 544541N 0045627W - 544215N 0045339W - 544007N 0045032W - 543915N 0044653W - 543815N 0045352W - 545812N 0051210W - 550218N 0050909W - 550332N 0050509W	Upper limit: 23000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 3000 FT ALT. Vertical Limit OCNL notified to altitudes up to 23,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Electronic/Optical Hazards. Service: SUAAIS: Luce Bay Information on 130.050 MHz or Scottish Information on 119.875 MHz. Contact: Pre-flight information: Range Control, Tel: 01776-888930. On no account should negative contact on 130.050 MHz be taken as non-activity of the range. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD402B LUCE BAY (N) 550332N 0050509W - 550254N 0045410W - 545600N 0044744W - 545600N 0045800W - 550332N 0050509W	Upper limit: 23000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 3000 FT ALT. Vertical Limit OCNL notified to altitudes up to 23,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Electronic/Optical Hazards. Service: SUAAIS: Luce Bay Information on 130.050 MHz or Scottish Information on 119.875 MHz. Contact: Pre-flight information: Range Control, Tel: 01776-888930. On no account should negative contact on 130.050 MHz be taken as non-activity of the range. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name **Lateral Limits**	**Upper Limit** **Lower Limit**	**Remarks** **(time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD402C LUCE BAY (N) A circle, 3000 FT radius, centred at 545659N 0045752W	Upper limit: 4000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Electronic/Optical Hazards. Service: SUAAIS: Luce Bay Information on 130.050 MHz or Scottish Information on 119.875 MHz. Contact: Pre-flight information: Range Control, Tel: 01776-888930. On no account should negative contact on 130.050 MHz be taken as non-activity of the range. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD403A LUCE BAY 545141N 0045438W - 545139N 0045041W - 545100N 0044946W - 544850N 0045646W - 544953N 0045653W - 545141N 0045438W	Upper limit: 3000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Luce Bay Information on 130.050 MHz or Scottish Information on 119.875 MHz. Contact: Pre-flight information: Range Control, Tel: 01776-888930. On no account should negative contact on 130.050 MHz be taken as non-activity of the range. SI 1940/1819. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD403B LUCE BAY 545208N 0045404W - 545217N 0045134W - 545100N 0044946W - 545008N 0044939W - 544650N 0043837W - 544304N 0043500W - 544050N 0043543W - 543915N 0044653W - 544007N 0045032W - 544215N 0045339W - 544541N 0045627W - 544953N 0045653W - 545208N 0045404W	Upper limit: 35000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Luce Bay Information on 130.050 MHz or Scottish Information on 119.875 MHz. Contact: Pre-flight information: Range Control, Tel: 01776-888930. On no account should negative contact on 130.050 MHz be taken as non-activity of the range. SI 1940/1819. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD403BZ1 LUCE BAY FBZ 545306N 0045437W - 545318N 0045119W - 545306N 0045030W - 545022N 0044639W - 544735N 0043722W - 544314N 0043311W - 544022N 0043407W - 543956N 0043449W - 543812N 0044701W - 543917N 0045135W - 544142N 0045507W - 544526N 0045809W - 545011N 0045839W - 545253N 0045515W - 545306N 0045437W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD405 KIRKCUDBRIGHT 544647N 0040349W - 544744N 0040214W - 544828N 0040040W - 544818N 0035705W - 544710N 0035630W - 543800N 0034806W - 543302N 0035720W - 543315N 0041341W - 543537N 0041514W - 544647N 0040349W	Upper limit: 50000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 15,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 50,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Scottish Information on 119.875 MHz. Contact: Pre-flight information / Booking: Kirkcudbright Range TSO, Tel: 01412-248500. DTSO 01412-248501. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD405Z1 KIRKCUDBRIGHT FBZ 544930N 0040113W - 544916N 0035625W - 544853N 0035535W - 544733N 0035454W - 543810N 0034618W - 543730N 0034630W - 543202N 0035641W - 543215N 0041415W - 543237N 0041506W - 543528N 0041659W - 543556N 0041655W - 544724N 0040512W - 544828N 0040324W - 544930N 0040113W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only.
EGD406A ESKMEALS 542057N 0032747W thence clockwise by the arc of a circle radius 2 NM centred on 541900N 0032705W to 541701N 0032723W - 540634N 0033920W thence clockwise by the arc of a circle radius 15 NM centred on 541900N 0032505W to 542357N 0034917W - 542846N 0033842W - 542057N 0032747W	Upper limit: 80000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 50,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 80,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Electronic/Optical Hazards. Service: SUAAIS: London Information on 125.475 MHz. Contact: Pre-flight information: Eskmeals Range, Tel: 01229-712245/ 712233. Aircraft following the west coast may proceed through the Danger Area at a height not below 2000 FT but it is essential that they remain east of the main railway line paralleling the coast while within the Danger Area. SI 1982/1180. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD406AZ1 ESKMEALS FBZ 542948N 0033912W - 542943N 0033749W - 542200N 0032702W thence clockwise by the arc of a circle radius 3 NM centred on 541900N 0032705W to 541602N 0032628W - 540541N 0033818W - 540530N 0033940W thence clockwise by the arc of a circle radius 16 NM centred on 541900N 0032505W to 542434N 0035043W - 542948N 0033912W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD406B ESKMEALS 541913N 0035042W thence anti-clockwise by the arc of a circle radius 15 NM centred on 541900N 0032505W to 541049N 0034630W - 540804N 0035336W thence clockwise by the arc of a circle radius 20 NM centred on 541900N 0032505W to 541916N 0035914W - 541913N 0035042W	Upper limit: 80000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 50,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 80,000 FT ALT. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Electronic/Optical Hazards. Service: SUAAIS: London Information on 125.475 MHz. Contact: Pre-flight information: Eskmeals Range, Tel: 01229-712245/ 712233. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD406BZ1 ESKMEALS FBZ 542016N 0035948W - 542013N 0035003W - 541939N 0034858W thence anti-clockwise by the arc of a circle radius 14 NM centred on 541900N 0032505W to 541104N 0034443W - 541014N 0034455W - 540659N 0035318W - 540712N 0035439W thence clockwise by the arc of a circle radius 21 NM centred on 541900N 0032505W to 541946N 0040055W - 542016N 0035948W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only.
EGD406C ESKMEALS 541916N 0035914W thence anti-clockwise by the arc of a circle radius 20 NM centred on 541900N 0032505W to 540804N 0035336W - 541027N 0040844W thence clockwise by the arc of a circle radius 27 NM centred on 541900N 0032505W to 541413N 0041025W - 541916N 0035914W	Upper limit: 50000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Balloons / Electronic/Optical Hazards. Service: SUAAIS: London Information on 125.475 MHz. Contact: Pre-flight information: Eskmeals Range, Tel: 01229-712245/ 712233. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD406CZ1 ESKMEALS FBZ 542016N 0035948W - 542016N 0035848W - 541951N 0035730W thence anti-clockwise by the arc of a circle radius 19 NM centred on 541900N 0032505W to 540805N 0035133W - 540721N 0035223W - 540659N 0035318W - 540933N 0040935W - 540953N 0041012W thence clockwise by the arc of a circle radius 28 NM centred on 541900N 0032505W to 541419N 0041210W - 541450N 0041150W - 542016N 0035948W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD407 WARCOP 543812N 0022047W - 543856N 0021445W - 543753N 0021402W - 543432N 0021545W - 543156N 0022043W - 543202N 0022209W - 543343N 0022536W - 543526N 0022419W - 543812N 0022047W	Upper limit: 13500 FT ALT Lower limit: SFC	Vertical Limit 10,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 13,500 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: London Information on 125.475 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01768-343223/343225/343226. SI 1981/623. SUA Authority: DAATM (DIO). Hours: Mon-Sat 0730-0200 (0630-0100), Sun 0730-1300 (0630-1200); and as activated by NOTAM.
EGD408 FELDOM 542826N 0015159W - 542750N 0014921W - 542656N 0014654W - 542513N 0014819W - 542447N 0015004W - 542505N 0015159W - 542720N 0015350W - 542826N 0015159W	Upper limit: 5600 FT ALT Lower limit: SFC	Vertical Limit 3000 FT ALT. Vertical Limit OCNL notified to altitudes up to 5600 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/ BVLOS) (less than 150 KTS). Service: SUAAIS: Leeming Zone on 133.380 when open; at other times London Information on 125.475 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01748-875502. SI 1976/566. SUA Authority: DAATM (DIO). Hours: Tue-Sun 0830-1630 (0730-1530); and as activated by NOTAM.
EGD410 STRENSALL A circle, 3000 FT radius, centred at 540136N 0010101W	Upper limit: 1000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Leeming Zone on 133.380 when open; at other times London Information on 125.475 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01904-442966. SI 1972/246. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD412 STAXTON 545800N 0002300W - 552500N 0010000E - 550400N 0012100E - 544545N 0005455E following the line of latitude to - 544545N 0000917W - 545800N 0002300W	Upper limit: 10000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives. Service: SUAAIS: London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD442 BELLERBY A circle, 2300 M radius, centred at 542039N 0015125W	Upper limit: 3000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) (less than 150 KTS). Service: SUAAIS: Leeming Zone on 133.380 when open; at other times London Information on 125.475 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01748-875502. SI 1984/1770. SUA Authority: DAATM (DIO). Hours: H24
EGD505 MAGILLIGAN 551117N 0065827W - 551307N 0065423W - 551253N 0065133W - 551107N 0064948W - 551010N 0065158W - 551008N 0065633W - 551117N 0065827W	Upper limit: 6500 FT ALT Lower limit: SFC	Vertical Limit 2000 FT ALT. Vertical Limit OCNL notified to altitudes up to 6500 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 02877-720029. SI 1940/949. SUA Authority: DAATM (DIO). Hours: 0800-2359 (0700-2300).
EGD508 RIDSDALE A circle, 1200 M radius, centred at 550845N 0021007W	Upper limit: 4100 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUACS: Newcastle APP on 124.380 MHz. SUAAIS: Scottish Information on 119.875 MHz. Contact: Pre-flight information: Range Reception, Tel: 01434-220952. SUA Authority: DAATM (DIO). Hours: Mon-Fri 0800-1700 (0700-1600); and as activated by NOTAM.
EGD509 CAMPBELTOWN 551230N 0053900W following the line of latitude to - 551230N 0050636W - 550706N 0050700W - 545930N 0051542W - 545548N 0052800W - 550630N 0054300W - 551230N 0053900W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: Scottish Information on 119.875 MHz. Contact: Pre-flight information / Booking: CTF311 Operations, Tel: 01923-956371. SUA Authority: DAATM (HQ Navy). Hours: Activated by NOTAM.
EGD509Z CAMPBELTOWN FBZ 551330N 0053933W - 551330N 0050551W - 551253N 0050449W - 550647N 0050517W - 545844N 0051430W - 545445N 0052745W - 545454N 0052858W - 550605N 0054439W - 550636N 0054448W - 551309N 0054026W - 551330N 0053933W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD510A SPADEADAM 551500N 0025256W - 550112N 0024453W - 550900N 0030000W - 551500N 0025400W - 551500N 0025256W	Upper limit: 15000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 5500 FT ALT. Vertical Limit OCNL notified to altitudes up to 15,000 FT ALT by NOTAM. Activity: Electronic/optical hazards / High Energy Manoeuvres / Para Dropping / Balloons / Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Spadeadam on 128.725 MHz. SUAAIS: Newcastle APP on 124.380 MHz. Contact: Pre-flight information / Booking: Range ATC, Tel: 01697-749486/749488. SUA Authority: DAATM (HQ Air). Hours: Mon-Thu 0900-1700 (0800-1600), Fri 0900-1600 (0800-1500); and as activated by NOTAM.
EGD510B SPADEADAM 551500N 0025256W - 551500N 0023951W - 550453N 0021743W - 550417N 0021717W - 550206N 0021640W - 550000N 0022752W - 550000N 0024235W - 550112N 0024453W - 551500N 0025256W	Upper limit: 18000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 5500 FT ALT. Vertical Limit OCNL notified to altitudes up to 18,000 FT ALT by NOTAM. Activity: Electronic/optical hazards / High Energy Manoeuvres / Para Dropping / Balloons / Ordnance, Munitions Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUACS: Spadeadam on 128.725 MHz. SUAAIS: Newcastle APP on 124.380 MHz. Contact: Pre-flight information / Booking: Range ATC, Tel: 01697-749486/749488. SUA Authority: DAATM (HQ Air). Hours: Mon-Thu 0900-1700 (0800-1600), Fri 0900-1600 (0800-1500); and as activated by NOTAM.
EGD510C SPADEADAM A circle, 1.5 NM radius, centred at 550243N 0023526W	Upper limit: 18000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 5500 FT ALT. Vertical Limit OCNL notified to altitudes up to 18,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives. Service: SUACS: Spadeadam on 128.725 MHz. SUAAIS: Newcastle APP on 124.380 MHz. Contact: Pre-flight information / Booking: Range ATC, Tel: 01697-749486/749488. SUA Authority: DAATM (HQ Air). Hours: Mon-Thu 0900-1700 (0800-1600), Fri 0900-1600 (0800-1500); and as activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD512A OTTERBURN 551418N 0020239W - 551054N 0021311W - 551615N 0022552W - 551857N 0022315W - 551525N 0021352W - 551418N 0020239W	Upper limit: 22000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS). Service: SUAAIS: Scottish Information on 119.875 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01912-394261. SI 1971/919 and SI 1980/38. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM. Not from Mon-Fri 0600-0900 (0500-0800) or Mon-Thu 1700-1900 (1600-1800); except under specially agreed arrangements.
EGD512B OTTERBURN 552426N 0021355W - 551719N 0020336W - 551418N 0020239W - 551525N 0021352W - 551857N 0022315W - 552212N 0022009W - 552426N 0021355W	Upper limit: 25000 FT ALT Lower limit: SFC	AMC - Manageable. Vertical Limit 18,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 25,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS). Service: SUAAIS: Scottish Information on 119.875 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01912-394261. SI 1971/919 and SI 1980/38. SUA Authority: DAATM (DIO). Hours: H24 For notifiable upper limit extension, not available from Mon-Fri 0600-0900 (0500-0800) or Mon-Thu 1700-1900 (1600-1800); except under specially agreed arrangements.
EGD513A DRURIDGE BAY 550200N 0010000W - 552000N 0010640W - 552000N 0002300W - 550200N 0004000W - 550200N 0010000W	Upper limit: FL230 Lower limit: SFC	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS) / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards. Service: SUAAIS: Scottish Information on 134.775 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD513B DRURIDGE BAY 554400N 0011543W - 554400N 0000726E - 552000N 0001700E - 550200N 0004000W - 552000N 0002300W - 552000N 0010640W - 554400N 0011543W	Upper limit: FL230 Lower limit: SFC	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS) / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards. Service: SUAAIS: Scottish Information on 134.775 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD513C DRURIDGE BAY 555000N 0011800W - 555000N 0000500E - 552000N 0001700E - 550200N 0004000W - 550200N 0010000W - 555000N 0011800W	Upper limit: FL100 Lower limit: SFC	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS) / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards. Service: SUAAIS: Scottish Information on 134.775 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD514 COMBAT AIRSPACE 564944N 0023059W - 561522N 0003908E - 554828N 0020148E - 542337N 0012225E - 550310N 0010229W - 550419N 0010503W thence anti-clockwise by the arc of a circle radius 21 NM centred on 550217N 0014123W to 551920N 0012007W - 551610N 0013433W - 551426N 0014100W - 551403N 0014229W - 552952N 0023047W - 553928N 0024212W - 560122N 0023945W - 561317N 0025226W - 563754N 0024601W - 564944N 0023059W	Upper limit: FL660 Lower limit: FL85	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS) / Ordnance, Munitions and Explosives (OME) / Electrical/Optical Hazards. Service: SUAAIS: Scottish Information on 119.875 MHz and London Information on 125.475 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD514Z COMBAT AIRSPACE FBZ 565458N 0023110W - 561955N 0004252E - 555154N 0020854E - 554847N 0021108E - 542003N 0012939E - 541805N 0012217E - 545851N 0010701W - 550149N 0011336W thence anti-clockwise by the arc of a circle radius 16 NM centred on 550217N 0014123W to 551338N 0012147W - 551134N 0013108W - 550955N 0013719W - 550826N 0014256W - 552606N 0023655W - 553805N 0025111W - 560008N 0024849W - 561214N 0030145W - 563947N 0025440W - 565355N 0023645W - 565458N 0023110W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD601 GARELOCHHEAD 560805N 0044636W - 560505N 0044656W - 560440N 0044740W - 560547N 0044912W - 560706N 0044912W - 560805N 0044636W	Upper limit: 4000 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: Scottish Information on 119.875 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01412-248123. SUA Authority: DAATM (DIO). UAS BVLOS will not be conducted above 1500 FT ALT. Hours: 0800-2359 (0700-2300); and as activated by NOTAM.
EGD604 BARRY BUDDON 562849N 0024849W - 562957N 0024010W - 562735N 0023943W - 562738N 0024829W - 562849N 0024849W	Upper limit: 9000 FT ALT Lower limit: SFC	Vertical Limit 1500 FT ALT. Vertical Limit OCNL notified to altitudes up to 9000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Para Dropping / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: Leuchars APP on 126.505. Contact: Pre-flight information / Booking: Range TSO, Tel: 01313-103426. SI 1973/1428. UAS BVLOS will not be conducted above 3000 FT ALT. SUA Authority: DAATM (DIO). Hours: H24
EGD613A CENTRAL COMPLEX 574421N 0002631E - 571940N 0004851E - 564725N 0013559W - 571447N 0014618W - 574421N 0002631E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/BVLOS) / Ordnance, Munitions and Explosives. Service: SUAAIS: Swanwick Military on 136.375 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD613AZ CENTRAL COMPLEX FBZ 574942N 0002629E - 574818N 0003318E - 571952N 0005854E - 571548N 0005556E - 564153N 0013621W - 564405N 0014400W - 571530N 0015558W - 571839N 0015258W - 574942N 0002629E	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD613B CENTRAL COMPLEX 571940N 0004851E - 565256N 0011225E - 564725N 0013559W - 571940N 0004851E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/BVLOS) / Ordnance, Munitions and Explosives. Service: SUAAIS: Swanwick Military on 136.375 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD613BZ CENTRAL COMPLEX FBZ 572443N 0004724E - 572230N 0005634E - 565246N 0012239E - 564804N 0011753E - 564206N 0014256W - 565019N 0014640W - 572443N 0004724E	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD613C CENTRAL COMPLEX 565256N 0011225E - 561750N 0012507W - 564725N 0013559W - 565256N 0011225E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS) / Ordnance, Munitions and Explosives. Service: SUAAIS: Swanwick Military on 136.375 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD613CZ CENTRAL COMPLEX FBZ 565212N 0014048W - 565805N 0011948E - 564947N 0012253E - 561219N 0012531W - 561431N 0013303W - 564836N 0014542W - 565212N 0014048W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD613D CENTRAL COMPLEX 565256N 0011225E - 560344N 0015411E - 560509N 0002907W - 561750N 0012507W - 565256N 0011225E	Upper limit: FL660 Lower limit: FL100	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS) / Ordnance, Munitions and Explosives. Service: SUAAIS: Swanwick Military on 136.375 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD613DZ CENTRAL COMPLEX FBZ 565818N 0011229E - 565651N 0011907E - 560318N 0020423E - 555839N 0015851E - 560009N 0003053W - 561426N 0013400W - 562106N 0013410W - 565818N 0011229E	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701A HEBRIDES 573347N 0074803W - 572253N 0072531W - 572324N 0072233W - 572147N 0072116W - 571056N 0072253W - 571034N 0073131W - 570200N 0073421W thence clockwise by the arc of a circle radius 19 NM centred on 572004N 0072347W to 573347N 0074803W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701AZ HEBRIDES FBZ 573848N 0075129W - 573845N 0074426W - 572831N 0072317W - 572844N 0072159W - 572708N 0071527W - 572236N 0071153W - 570842N 0071400W - 570606N 0071848W - 570554N 0072345W - 565904N 0072602W - 565636N 0073235W thence clockwise by the arc of a circle radius 24 NM centred on 572004N 0072347W to 573848N 0075129W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD701B HEBRIDES 570200N 0073421W - 565713N 0073556W - 571703N 0092047W - 574801N 0092039W - 574514N 0083032W - 574224N 0080606W - 573347N 0074803W thence anti-clockwise by the arc of a circle radius 19 NM centred on 572004N 0072347W to 570200N 0073421W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701BZ1 HEBRIDES FBZ 575312N 0092352W - 575010N 0082902W - 574659N 0080143W - 573659N 0074047W - 573227N 0073547W thence anti-clockwise by the arc of a circle radius 14 NM centred on 572004N 0072347W to 570609N 0072551W - 570144N 0072508W - 565403N 0072743W - 565144N 0073503W - 571249N 0092631W - 571526N 0093000W - 575014N 0093000W - 575312N 0092352W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701BZ2 HEBRIDES FBZ 573803N 0100000W following the line of latitude to - 573803N 0092042W - 573703N 0092042W - 573703N 0100000W - 573803N 0100000W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701C HEBRIDES 574801N 0092039W - 575639N 0081032W - 575154N 0074532W - 573809N 0073422W thence anti-clockwise by the arc of a circle radius 19 NM centred on 572004N 0072347W to 573347N 0074803W - 574224N 0080606W - 574514N 0083032W - 574801N 0092039W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701CZ HEBRIDES FBZ 580150N 0080956W - 575615N 0074032W - 575450N 0073743W - 573357N 0072052W thence anti-clockwise by the arc of a circle radius 14 NM centred on 572004N 0072347W to 572629N 0074646W - 573748N 0081028W - 574018N 0083201W - 574328N 0092925W - 575153N 0093032W - 580150N 0080956W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701D HEBRIDES 571703N 0092047W - 565801N 0074000W - 564302N 0074000W - 565603N 0090000W - 571703N 0092047W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD701DZ HEBRIDES FBZ 572251N 0092349W - 570211N 0073410W - 565935N 0073052W - 564031N 0073056W - 563732N 0073818W - 565133N 0090420W - 565250N 0090711W - 571739N 0093152W - 572251N 0092349W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701E HEBRIDES 582859N 0094100W following the line of latitude to - 582859N 0084939W - 574923N 0071500W - 574128N 0073703W - 575154N 0074532W - 575639N 0081032W - 575411N 0083112W - 580439N 0085353W - 582859N 0094100W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701EZ HEBRIDES FBZ 583357N 0094729W - 583358N 0084622W - 575140N 0070526W - 574638N 0070553W - 573603N 0073522W - 573717N 0074348W - 574756N 0075229W - 575128N 0081108W - 574903N 0083119W - 574938N 0083540W - 580059N 0090016W - 582744N 0095213W - 583357N 0094729W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701F HEBRIDES 593000N 0100000W - 584715N 0074914W - 582525N 0070835W - 574923N 0071500W - 582859N 0084939W following the line of latitude to - 582859N 0100000W - 593000N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701FZ HEBRIDES FBZ 593547N 0095946W - 585107N 0074305W - 582805N 0070017W - 582601N 0065855W - 574557N 0070614W - 574338N 0071632W - 582400N 0085254W following the line of latitude to - 582400N 0100356W - 582655N 0100931W - 593255N 0100949W - 593547N 0095946W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701G HEBRIDES 582859N 0100000W following the line of latitude to - 582859N 0094100W - 580439N 0085353W - 575411N 0083112W - 574801N 0092039W - 571703N 0092047W - 573301N 0100000W - 582859N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD701GZ HEBRIDES FBZ 583358N 0100358W - 583358N 0093908W - 583315N 0093542W - 580819N 0084728W - 575555N 0082042W - 574959N 0082333W - 574405N 0091121W - 571356N 0091136W - 571112N 0092149W - 572943N 0100718W - 573149N 0100916W - 583103N 0100932W - 583358N 0100358W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701H HEBRIDES 573301N 0100000W - 571703N 0092047W - 565603N 0090000W - 571500N 0100000W - 573301N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701HZ HEBRIDES FBZ 573851N 0095902W - 572022N 0091337W - 565504N 0084842W - 564950N 0085841W - 571120N 0100642W - 571339N 0100912W - 573605N 0100918W - 573851N 0095902W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701I HEBRIDES 571500N 0100000W - 565603N 0090000W - 564302N 0074000W - 563510N 0074307W - 563524N 0083728W - 564548N 0100000W - 571500N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701IZ HEBRIDES FBZ 572045N 0100003W - 570041N 0085622W - 564714N 0073356W - 564352N 0073023W - 563221N 0073458W - 563009N 0074001W - 563024N 0083833W - 564118N 0100504W - 564402N 0100905W - 571752N 0100913W - 572045N 0100003W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701J HEBRIDES 564548N 0100000W - 563524N 0083728W - 563510N 0074307W - 560339N 0074415W - 563523N 0100000W - 564548N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701JZ HEBRIDES FBZ 565111N 0100219W - 564023N 0083624W - 564007N 0073913W - 563708N 0073359W - 560052N 0073526W - 555800N 0074328W - 563119N 0100556W - 563351N 0100902W - 564811N 0100906W - 565111N 0100219W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD701K HEBRIDES 563523N 0100000W - 560339N 0074415W - 555107N 0080000W following the line of latitude to - 555107N 0080331W - 562630N 0100000W - 563523N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701KZ HEBRIDES FBZ 564100N 0100105W - 560715N 0073646W - 560241N 0073432W - 554715N 0075400W - 554607N 0075750W - 554607N 0080550W - 562244N 0100624W - 562507N 0100900W - 563801N 0100903W - 564100N 0100105W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701L HEBRIDES 562630N 0100000W - 560435N 0084640W - 560530N 0100000W - 562630N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701LZ HEBRIDES FBZ 563214N 0100018W - 560703N 0083612W - 555928N 0083956W - 560033N 0100347W - 560327N 0100855W - 562919N 0100901W - 563214N 0100018W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701M HEBRIDES 560530N 0100000W - 560435N 0084640W - 555107N 0080331W following the line of latitude to - 555107N 0080000W - 554000N 0080000W following the line of latitude to - 554000N 0092508W - 554516N 0100000W - 560530N 0100000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701MZ HEBRIDES FBZ 561031N 0100337W - 560932N 0084415W - 555606N 0080111W - 555606N 0075619W - 555311N 0075107W - 553755N 0075111W - 553459N 0075625W following the line of latitude to - 553500N 0092616W - 554053N 0100510W - 554334N 0100851W - 560735N 0100856W - 561031N 0100337W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD701N HEBRIDES 563148N 0114510W - 560530N 0100000W - 554516N 0100000W - 555352N 0110000W - 563148N 0114510W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701NZ HEBRIDES FBZ 563752N 0114747W - 560925N 0095352W - 560657N 0095104W - 554249N 0095110W - 553949N 0095803W - 554915N 0110345W - 555020N 0110630W - 563207N 0115627W - 563752N 0114747W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701O HEBRIDES 570000N 0120000W - 562630N 0100000W - 560530N 0100000W - 563148N 0114510W - 564357N 0120000W - 570000N 0120000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701OZ HEBRIDES FBZ 570542N 0120032W - 563016N 0095335W - 562753N 0095059W - 560246N 0095105W - 555950N 0095920W - 562748N 0115111W - 564225N 0120904W - 570246N 0120909W - 570542N 0120032W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD701P HEBRIDES 572125N 0120000W - 565038N 0104118W - 564548N 0100000W - 562630N 0100000W - 570000N 0120000W - 572125N 0120000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701PZ HEBRIDES FBZ 575512N 0115543W - 571739N 0101903W - 571525N 0100000W - 564613N 0095055W - 562341N 0095100W - 562047N 0095942W - 565531N 0120401W - 570000N 0125302W - 573848N 0125358W - 575512N 0115543W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD701Q HEBRIDES 572125N 0120000W - 571500N 0100000W - 564548N 0100000W - 565038N 0104118W - 572125N 0120000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701QZ HEBRIDES FBZ 575200N 0123651W - 574407N 0100000W - 571525N 0095048W - 564324N 0095055W - 564025N 0095742W - 564545N 0104309W - 570000N 0123637W - 571013N 0130359W - 575200N 0123651W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only
EGD701R HEBRIDES 580135N 0120000W - 573301N 0100000W - 571500N 0100000W - 572125N 0120000W - 580135N 0120000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701RZ HEBRIDES FBZ 583418N 0120535W - 580454N 0100000W - 573324N 0095043W - 571408N 0095048W - 570000N 0100000W following the line of latitude to - 570000N 0123606W - 570957N 0125316W - 581659N 0125456W - 583418N 0120535W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only
EGD701S HEBRIDES 584514N 0120000W - 582859N 0100000W - 573301N 0100000W - 580135N 0120000W - 584514N 0120000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701SZ HEBRIDES FBZ 591639N 0121319W - 585900N 0100000W - 582924N 0095028W - 573237N 0095043W - 570107N 0100000W - 573819N 0123608W - 575243N 0125419W - 585906N 0125603W - 591639N 0121319W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD701T HEBRIDES 593000N 0120000W following the line of latitude to - 593000N 0100000W - 582859N 0100000W - 584514N 0120000W - 593000N 0120000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701TZ HEBRIDES FBZ 595856N 0122350W following the line of latitude to - 595856N 0100000W - 593026N 0095011W - 582834N 0095029W - 575859N 0100000W - 581926N 0123130W - 583502N 0125524W - 594146N 0125714W - 595856N 0122350W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only
EGD701U HEBRIDES 590000N 0130000W - 593000N 0120000W - 584514N 0120000W - 585236N 0130000W - 590000N 0130000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701UZ HEBRIDES FBZ 595856N 0122311W following the line of latitude to - 595856N 0114816W - 594855N 0110234W - 583058N 0110442W - 581347N 0114706W - 582635N 0133107W - 584216N 0135536W - 590535N 0135613W - 591620N 0134749W - 595856N 0122311W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only
EGD701V HEBRIDES 585236N 0130000W - 584514N 0120000W - 580135N 0120000W - 581454N 0130000W - 585236N 0130000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701VZ HEBRIDES FBZ 592353N 0131400W - 591054N 0112742W - 585502N 0110404W - 574549N 0110552W - 572851N 0115433W - 575123N 0133554W - 580554N 0135439W - 590619N 0135614W - 592353N 0131400W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD701W HEBRIDES 581454N 0130000W - 580135N 0120000W - 572125N 0120000W - 573126N 0130000W - 581454N 0130000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701WZ HEBRIDES FBZ 584734N 0130634W - 582441N 0112306W - 581004N 0110515W - 570632N 0110649W - 570000N 0112336W following the line of latitude to - 570000N 0125241W - 570626N 0133212W - 572140N 0135333W - 583000N 0135516W - 584734N 0130634W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only
EGD701X HEBRIDES 573126N 0130000W - 572125N 0120000W - 564357N 0120000W - 573126N 0130000W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701XZ HEBRIDES FBZ 580503N 0132125W - 574603N 0112644W - 573041N 0110614W - 570000N 0110658W - 564015N 0115056W - 563806N 0120345W - 570000N 0132431W - 572209N 0135333W - 574038N 0135401W - 580503N 0132125W	Upper limit: As Per AUP / UUP Lower limit: FL050	For IFR flight planning purposes only
EGD701Y HEBRIDES 573809N 0073422W - 572324N 0072233W - 572253N 0072531W - 573347N 0074803W thence clockwise by the arc of a circle radius 19 NM centred on 572004N 0072347W to 573809N 0073422W	Upper limit: UNL Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.
EGD701YZ HEBRIDES FBZ 574321N 0073409W - 574212N 0072729W - 572320N 0071227W - 571919N 0071551W - 571744N 0072502W - 571817N 0072952W - 573144N 0075744W - 573559N 0075659W thence clockwise by the arc of a circle radius 23.99999999936406 NM centred on 572004N 0072347W to 574321N 0073409W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD702 FORT GEORGE 573617N 0040047W - 573449N 0040128W - 573440N 0040257W - 573456N 0040438W - 573534N 0040338W - 573617N 0040047W	Upper limit: 2100 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS). Service: SUAAIS: Inverness Radar on 122.605 when open; at other times Scottish Information on 134.850 MHz. Contact: Pre-flight information / Booking: Range TSO, Tel: 01313-108124/108114. SI 1940/30. SUA Authority: DAATM (DIO). Hours: 0800-1600 (0700-1500); and as activated by NOTAM.
EGD703 TAIN 575224N 0033030W - 575054N 0034630W - 574500N 0035500W - 574500N 0040254W - 575136N 0040812W - 580324N 0034436W - 580700N 0033700W - 580300N 0033000W - 575224N 0033000W - 575224N 0033030W	Upper limit: 22000 FT ALT Lower limit: SFC	Vertical Limit 15,000 FT ALT. Vertical Limit OCNL notified to altitudes up to 22,000 FT ALT by NOTAM. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Para Dropping / Electronic/Optical Hazards. Service: SUACS: Tain Range on 122.755 when open. SUAAIS: Tain Range on 122.755 when open; at other times Scottish Information on 134.850 MHz. Contact: Pre-flight information / Booking: Range ATC, Tel: 01862-892185 Ext 4945. Aircraft wishing to use Dornoch or Easter Aerodromes during range opening hours are to contact Tain Range on 122.755 prior to entering the range. Associated aircraft operations outside area boundary. SI 1940/684. SUA Authority: DAATM (DIO). Hours: Mon-Thu 0900-2200 (0800-2100), Fri 0900-1400 (0800-1300); and as activated by NOTAM.
EGD704 HEBRIDES 573727N 0071811W - 573143N 0071055W - 572625N 0072457W - 573305N 0073017W - 573727N 0071811W	Upper limit: 10000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Target Towing / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Ordnance, Munitions and Explosives / Para Dropping / Balloons / Electronic/Optical Hazards. Service: SUACS: Benbecula Approach on 119.205 MHz when open. SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01870-604449. SUA Authority: DAATM (DE&S). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD710 RAASAY 572200N 0054927W - 572200N 0055935W - then along the east coast of Raasay and Rona in an northerly direction to 573500N 0055800W - 573800N 0055800W - 573800N 0055000W - 573445N 0055000W - then along the west coast of the Applecross peninsula in an southerly direction to 572200N 0054927W	Upper limit: 1500 FT ALT Lower limit: SFC	Activity: Ordnance, Munitions and Explosives / Electronic/Optical Hazards / Unmanned Aircraft System (VLOS/BVLOS). Service: SUAAIS: Scottish Information on 127.275 MHz. Contact: Pre-flight information: Range Control, Tel: 01397-436720. SI 2016/654. SUA Authority: DAATM (DE&S). This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure. Hours: Activated by NOTAM. Mon-Sat SR to SS.
EGD712A NORTHERN COMPLEX 585202N 0052659W - 581310N 0052344W - 581920N 0055243W - 584432N 0055510W - 585202N 0052659W	Upper limit: FL660 Lower limit: FL245	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS). Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD712AZ NORTHERN COMPLEX FBZ 585743N 0052640W - 585458N 0051735W - 581039N 0051405W - 580731N 0052231W - 581514N 0055848W - 581737N 0060202W - 584544N 0060454W - 584817N 0060206W - 585743N 0052640W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD712B NORTHERN COMPLEX 591444N 0035801W - 590716N 0033308W - 580412N 0044247W - 581310N 0052344W - 585202N 0052659W - 591444N 0035801W	Upper limit: FL660 Lower limit: FL245	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS). Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD712BZ NORTHERN COMPLEX FBZ 591945N 0040004W - 591940N 0035513W - 591031N 0032445W - 590631N 0032245W - 580006N 0043621W - 575852N 0044307W - 580906N 0052952W - 581129N 0053303W - 585317N 0053644W - 585549N 0053353W - 591945N 0040004W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD712C NORTHERN COMPLEX 590716N 0033308W - 584654N 0022720W - 574827N 0033350W - 580412N 0044247W - 590716N 0033308W	Upper limit: FL660 Lower limit: FL245	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS). Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD712CZ NORTHERN COMPLEX FBZ 591237N 0033141W - 585005N 0021855W - 584604N 0021704W - 574417N 0032735W - 574307N 0033420W - 580028N 0045018W - 580442N 0045303W - 591135N 0033929W - 591237N 0033141W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD712D NORTHERN COMPLEX 584654N 0022720W - 583622N 0015427W - 574000N 0020624W following the line of latitude to - 574000N 0025821W - 574827N 0033350W - 584654N 0022720W	Upper limit: FL660 Lower limit: FL245	AMC - Manageable. Activity: High Energy Manoeuvres / Unmanned Aircraft System (VLOS/ BVLOS). Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD712DZ NORTHERN COMPLEX FBZ 585214N 0022543W - 583950N 0014702W - 583713N 0014438W - 573732N 0015733W - 573501N 0020251W following the line of latitude to - 573501N 0030021W - 574447N 0034125W - 574902N 0034401W - 585116N 0023328W - 585214N 0022543W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD713 FAST JET AREA SOUTH 575900N 0065200W - 574600N 0061000W - 563500N 0052200W - 560600N 0063000W - 561000N 0065400W - 564200N 0081500W - 575000N 0081500W - 575900N 0065200W	Upper limit: FL550 Lower limit: FL245	AMC: Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions & Explosives (OME). Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel 01489-612495. SUA Authority: DAATM (HQ Air). EGD713 is solely in support of Ex Joint Warrior. Hours: Activated by NOTAM.
EGD713Z FAST JET AREA SOUTH FBZ 580415N 0065021W - 574924N 0060224W - 563509N 0051229W - 563200N 0051411W - 560119N 0062614W - 560052N 0063030W - 560527N 0065800W - 563836N 0082200W - 564046N 0082404W - 575146N 0082422W - 575430N 0082012W - 580415N 0065021W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR planning purposes only
EGD801 CAPE WRATH (NORTH WEST) 590000N 0043000W - 584500N 0043000W following the line of latitude to - 584500N 0050000W - 590000N 0050000W following the line of latitude to - 590000N 0043000W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 133.675 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01971-511242 when open; at other times Tain Range ATC, Tel: 01862-892185 Ext 4945. SI 1933/40. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD801Z CAPE WRATH (NORTH WEST) FBZ 590459N 0050402W following the line of latitude to - 590459N 0042558W - 590203N 0042019W - 584255N 0042025W - 584000N 0042604W following the line of latitude to - 584000N 0050356W - 584255N 0050935W - 590203N 0050941W - 590459N 0050402W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD802 CAPE WRATH (SOUTH EAST) 584500N 0043000W - 583435N 0043000W - then along the coastline to 583200N 0044728W - 583200N 0050000W - 584500N 0050000W - 584500N 0043000W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 133.675 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01971-511242 when open; at other times Tain Range ATC, Tel: 01862-892185 Ext 4945. SI 1933/40. SUA Authority: DAATM (DIO). This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure. Hours: Activated by NOTAM.
EGD802Z CAPE WRATH (SOUTH EAST) FBZ 584959N 0050401W following the line of latitude to - 584959N 0042559W - 584703N 0042024W - 583236N 0042028W - 582715N 0043007W - 582529N 0043257W - 582258N 0043807W - 582211N 0044011W - 582134N 0044517W - 582212N 0044953W - 582426N 0045426W - 582701N 0045522W - 582700N 0050356W - 582956N 0050932W - 584703N 0050936W - 584959N 0050401W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD803 GARVIE ISLAND A circle, 4 NM radius, centred at 583705N 0045220W	Upper limit: 40000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft System (VLOS/BVLOS) / High Energy Manoeuvres / Electronic/Optical Hazards. Service: SUAAIS: Scottish Information on 133.675 MHz. Contact: Pre-flight information / Booking: Range Control, Tel: 01971-511242 when open; at other times Tain Range ATC, Tel: 01862-892185 Ext 4945. SUA Authority: DAATM (DIO). Hours: Activated by NOTAM.
EGD803Z GARVIE ISLAND FBZ A circle, 9 NM radius, centred at 583705N 0045220W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGD809C MORAY FIRTH (CENTRAL) 585000N 0023314W following the line of latitude to - 585000N 0014526W - 582600N 0015049W following the line of latitude to - 582600N 0024048W - 585000N 0023314W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft system (VLOS/BVLOS) / High Energy Manoeuvres. Service: SUAAIS: Scottish Information on 133.675 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD809CZ MORAY FIRTH (CENTRAL) FBZ 585459N 0023649W - 585458N 0014104W - 585138N 0013522W - 582331N 0014148W - 582100N 0014715W - 582100N 0024509W - 582431N 0025054W - 585236N 0024210W - 585459N 0023649W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD809N MORAY FIRTH (NORTH) 592300N 0015130W following the line of latitude to - 592300N 0014200W - 590500N 0014200W - 585000N 0014526W following the line of latitude to - 585000N 0023314W - 585800N 0023040W - 592300N 0015130W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft system (VLOS/BVLOS) / High Energy Manoeuvres. Service: SUAAIS: Scottish Information on 133.675 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD809NZ MORAY FIRTH (NORTH) FBZ 592759N 0015343W - 592759N 0013756W - 592503N 0013213W - 590442N 0013219W - 584731N 0013619W - 584500N 0014149W - 584500N 0023730W - 584827N 0024328W - 590005N 0023947W - 592701N 0015743W - 592759N 0015343W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only
EGD809S MORAY FIRTH (SOUTH) 582600N 0024048W following the line of latitude to - 582600N 0015049W - 575000N 0015840W following the line of latitude to - 575000N 0022415W - 581630N 0024345W - 582600N 0024048W	Upper limit: 55000 FT ALT Lower limit: SFC	AMC - Manageable. Activity: Ordnance, Munitions and Explosives / Unmanned Aircraft system (VLOS/BVLOS) / High Energy Manoeuvres. Service: SUAAIS: Scottish Information on 133.675 MHz. Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel: 01489-612495. SUA Authority: DAATM (HQ Air). Hours: Activated by NOTAM.
EGD809SZ MORAY FIRTH (SOUTH) FBZ 583059N 0024421W - 583058N 0014630W - 582738N 0014052W - 574732N 0014947W - 574500N 0015508W - 574500N 0022707W - 574645N 0023155W - 581557N 0025331W - 582836N 0024938W - 583059N 0024421W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR flight planning purposes only

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD901 FAST JET AREA NORTH 594000N 0013000W - 591000N 0010000W - 580215N 0000948E - 574700N 0010000W - 574000N 0013100W following the line of latitude to - 574000N 0025821W - 581920N 0055243W - 595000N 0060149W - 594000N 0013000W	Upper limit: FL550 Lower limit: FL245	AMC: Manageable. Activity: High Energy Manoeuvres / Ordnance, Munitions & Explosives (OME). Contact: Booking: Military Airspace Management Cell – Managed Airspace, Tel 01489-612495. SUA Authority: DAATM (HQ Air). EGD901 is solely in support of Ex Joint Warrior. Hours: Activated by NOTAM.
EGD901Z FAST JET AREA NORTH FBZ 595504N 0060549W - 594449N 0012628W - 594324N 0012222W - 591224N 0005129W - 580236N 0002004E - 575826N 0001710E - 574224N 0005624W - 573500N 0012909W - 573500N 0030018W - 581514N 0055848W - 581737N 0060202W - 595156N 0061157W - 595504N 0060549W	Upper limit: As Per AUP / UUP Lower limit: FL255	For IFR planning purposes only
EGD902A SAXAVORD A circle, 0.75 NM radius, centred at 604906N 0004612W	Upper limit: 3000 FT ALT Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902B SAXAVORD 610000N 0010600W following the line of latitude to - 610000N 0002500W - 604600N 0002500W following the line of latitude to - 604600N 0010600W - 610000N 0010600W	Upper limit: UNL Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902BZ SAXAVORD FBZ 610000N 0010802W following the line of latitude to - 610000N 0002257W - 604537N 0002257W - 604505N 0002353W - 604500N 0002449W following the line of latitude to - 604500N 0010614W - 604510N 0010715W - 604538N 0010803W - 610000N 0010802W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD902C SAXAVORD 604600N 0010600W following the line of latitude to - 604600N 0002500W - 604000N 0002500W following the line of latitude to - 604000N 0010600W - 604600N 0010600W	Upper limit: UNL Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902CZ SAXAVORD FBZ 604700N 0010634W following the line of latitude to - 604700N 0002430W - 604647N 0002338W - 604617N 0002257W - 603918N 0002257W - 603900N 0002416W following the line of latitude to - 603900N 0010622W - 603906N 0010656W - 603920N 0010734W - 603945N 0010802W - 604617N 0010803W - 604644N 0010730W - 604700N 0010634W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	**Upper Limit Lower Limit**	**Remarks (time of activity, type of restriction, nature of hazard, risk of interception)**
1	**2**	**3**
EGD902D SAXAVORD 610000N 0013000W - 604600N 0010600W - 604000N 0010600W - 604805N 0013000W - 610000N 0013000W	Upper limit: UNL Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902DZ SAXAVORD FBZ 610000N 0013203W following the line of latitude to - 610000N 0012719W - 604622N 0010357W - 603939N 0010357W - 603913N 0010440W - 603901N 0010530W - 603900N 0010622W - 603906N 0010656W - 603920N 0010734W - 604657N 0013016W - 604725N 0013137W - 604747N 0013203W - 610000N 0013203W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD902E SAXAVORD 610000N 0000000E - 604805N 0000000E - 604000N 0002500W - 604600N 0002500W - 610000N 0000000E	Upper limit: UNL Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902EZ SAXAVORD FBZ 610000N 0000243W following the line of latitude to - 610000N 0000000E - 604704N 0000000E - 603918N 0002257W - 603900N 0002416W following the line of latitude to - 603900N 0002605W - 603941N 0002705W - 604541N 0002704W - 604621N 0002704W - 610000N 0000243W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD902F SAXAVORD 610000N 0020445W following the line of latitude to - 610000N 0013000W - 604805N 0013000W - 610000N 0020445W	Upper limit: UNL Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902FZ SAXAVORD FBZ 610000N 0020819W following the line of latitude to - 610000N 0012753W - 604748N 0012758W - 604715N 0012837W - 604657N 0013016W - 604725N 0013137W - 610000N 0020819W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.
EGD902G SAXAVORD 610000N 0013000W following the line of latitude to - 610000N 0010600W - 604600N 0010600W - 610000N 0013000W	Upper limit: UNL Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902GZ SAXAVORD FBZ 610000N 0013203W following the line of latitude to - 610000N 0010357W - 604621N 0010357W - 604540N 0010357W - 604515N 0010435W - 604500N 0010521W following the line of latitude to - 604500N 0010614W - 604510N 0010715W - 610000N 0013203W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGD902H SAXAVORD 610000N 0002500W following the line of latitude to - 610000N 0000000E - 604600N 0002500W - 610000N 0002500W	Upper limit: UNL Lower limit: SFC	Activity: Spaceflight Activities / Ordnance Munitions and Explosives. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com. SUA Authority: SaxaVord Spaceport. Hours: Activated by NOTAM.
EGD902HZ SAXAVORD FBZ 610000N 0002704W following the line of latitude to - 610000N 0000000E - 605828N 0000000E - 604505N 0002353W - 604500N 0002449W - 604500N 0002605W - 604541N 0002704W - 610000N 0002704W	Upper limit: As Per AUP / UUP Lower limit: SFC	For IFR flight planning purposes only.

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
Prohibited Area		
EGP611 COULPORT / FASLANE A circle, 2 NM radius, centred at 560331N 0045159W	Upper limit: 2200 FT ALT Lower limit: SFC	SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGP813 DOUNREAY A circle, 2 NM radius, centred at 583435N 0034434W	Upper limit: 2100 FT ALT Lower limit: SFC	SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
Restricted Area		
EGR002 DEVONPORT A circle, 1 NM radius, centred at 502317N 0041114W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted by helicopter for the purpose of landing or taking off from Kinterbury Point (KP) Helicopter Landing Site (HLS) and Ships within HM Naval Base with the permission of FOST / Plymouth Military Radar and in accordance with any conditions to which permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR063 DUNGENESS A circle, 2 NM radius, centred at 505449N 0005717E	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Dungeness, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. Flight permitted by an aircraft which has taken off from or intends to land at London Ashford (Lydd) Airport flying in accordance with normal aviation practice which remains at least 1.5 NM from the position given at column 1 for Dungeness. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR095 SARK A circle, 3 NM radius, centred at 492546N 0022145W	Upper limit: 2374 FT ALT Lower limit: SFC	Flight is not permitted except in conformity with any permission granted by or on behalf of the Channel Islands Director of Civil Aviation. The Island of Sark is within Bailiwick of Guernsey territorial waters although within the Brest FIR. Guernsey SI 1985/21. Contact: Refer to Statutory Instrument.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR101 ALDERMASTON A circle, 1.5 NM radius, centred at 512203N 0010847W	Upper limit: 2400 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Aldermaston, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR104 BURGHFIELD A circle, 1 NM radius, centred at 512424N 0010125W	Upper limit: 2400 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Burghfield, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR105 HIGHGROVE HOUSE A circle, 1.5 NM radius, centred at 513720N 0021050W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted by: any aircraft in the service of National Police Air Service; any aircraft flying in the service of the Helicopter Emergency Medical Service; any aircraft flying in the service of the Maritime and Coastguard Agency; any aircraft flying in the service of The King's Helicopter Flight; any aircraft flying in accordance with a permission issued by the Gloucestershire Constabulary Royalty Household Protection Group; any aircraft either operated by a member of the Royal Family, or landing in the grounds of Highgrove House at the invitation of the person in charge of the household there, provided that the Gloucestershire Constabulary Royalty Household Protection Group has been informed in advance of such intended flight or landing. SI 907/2018. Contact: Refer to Statutory Instrument.
EGR106 RAYMILL HOUSE, LACOCK A circle, 1 NM radius, centred at 512523N 0020646W	Upper limit: 1600 FT ALT Lower limit: SFC	Flight permitted by: any aircraft in the service of National Police Air Service; any aircraft flying in the service of the Helicopter Emergency Medical Services; any aircraft flying in the service of Maritime and Coastguard Agency; any aircraft flying in the service of The King's Helicopter Flight. Flying in accordance with an agreed exemption issued by, or with the permission of, the Wiltshire Police Constabulary Royalty Protection Department. SI 703/2021. Contact: Refer to Statutory Instrument.
EGR107 BELMARSH 513020N 0000529E thence clockwise by the arc of a circle radius 0.5 NM centred on 512951N 0000541E to 512943N 0000454E - 513020N 0000529E	Upper limit: 2000 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter for the purpose of carrying out an IFR approach to London/City Airport for cloud break purposes. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. SI 1989/2118 as amended by SI 1993/2123. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR153 HINKLEY POINT A circle, 2 NM radius, centred at 511233N 0030749W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Hinkley Point, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. Flight permitted by a helicopter flying within the Bridgewater Bay Danger Area with the permission of the person in charge of that Area and in accordance with any conditions to which that permission is subject which remains at least 1 NM from the position given at column 1 for Hinkley Point. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR154 OLDBURY A circle, 2 NM radius, centred at 513852N 0023415W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Oldbury, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR155 BERKELEY A circle, 2 NM radius, centred at 514134N 0022936W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Berkeley, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR156 WINDSOR CASTLE A circle, 1.25 NM radius, centred at 512902N 0003614W	Upper limit: 2500 FT ALT Lower limit: SFC	Flight permitted by: any aircraft operating for or on behalf of National Police Air Service; any aircraft operating for or on behalf of The Helicopter Emergency Medical Service; any aircraft operating for or on behalf of The Maritime and Coastguard Agency for the purposes of search and rescue operations; any aircraft operating for or on behalf of The King's Helicopter Flight; any aircraft operated by a member of the Royal Family; any aircraft flying in accordance with an agreed exemption issued by, or with the permission of, the Metropolitan Police (Royalty and Special Protection); or landing in the grounds of Windsor Great Park at the invitation of the Director of Royal Travel provided that Protective Security Operations (PSO) has been informed in advance of such intended flight or landing; any aircraft approaching to, or departing from, London Heathrow Airport. SI 1137/2021. Contact: Refer to Statutory Instrument.
EGR157 HYDE PARK 513212N 0000911W - 513020N 0000648W thence clockwise by the arc of a circle radius 0.55 NM centred on 513000N 0000730W to 513001N 0000637W - 512917N 0000634W thence clockwise by the arc of a circle radius 0.55 NM centred on 512915N 0000726W to 512852N 0000649W - 512834N 0000719W thence clockwise by the arc of a circle radius 0.55 NM centred on 512857N 0000756W to 512858N 0000849W - 512921N 0000847W - 512939N 0001132W thence clockwise by the arc of a circle radius 0.55 NM centred on 513011N 0001123W to 513028N 0001209W - 513208N 0001038W thence clockwise by the arc of a circle radius 0.55 NM centred on 513151N 0000952W to 513212N 0000911W	Upper limit: 1400 FT ALT Lower limit: SFC	Flight permitted by: any aircraft in the service of the Chief Officer of Police for the Metropolitan Police District; any aircraft flying in accordance with a Special Flight Notification issued by the appropriate ATC unit; any helicopter flying on Helicopter Route H4; any aircraft flying in accordance with an Enhanced Non-Standard Flight clearance issued by the appropriate ATC unit. See also ENR 1.1, paragraph 4.1.6. SI 1300/2017 Contact: www.nats.co.uk/nsf

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGR158 CITY OF LONDON 513125N 0000547W - 513118N 0000439W - 513043N 0000418W - 513016N 0000433W - 513037N 0000704W - 513108N 0000653W - 513125N 0000547W	Upper limit: 1400 FT ALT Lower limit: SFC	Flight permitted by: any aircraft in the service of the Chief Officer of Police for the Metropolitan Police District; any aircraft flying in accordance with a Special Flight Notification issued by the appropriate ATC unit; any helicopter flying on Helicopter Route H4; any aircraft flying in accordance with an Enhanced Non-Standard Flight clearance issued by the appropriate ATC unit. See also ENR 1.1, paragraph 4.1.6. SI 2092/2004. Contact: www.nats.co.uk/nsf
EGR159 ISLE OF DOGS 513035N 0000025W - 512954N 0000033W - 512938N 0000022W thence clockwise by the arc of a circle radius 0.3 NM centred on 512931N 0000049W to 512921N 0000113W - 513000N 0000154W thence clockwise by the arc of a circle radius 0.55 NM centred on 513018N 0000110W to 513035N 0000025W	Upper limit: 1400 FT ALT Lower limit: SFC	Flight permitted by: any aircraft in the service of the Chief Officer of Police for the Metropolitan Police District; any aircraft flying in accordance with a Special Flight Notification issued by the appropriate ATC unit; any helicopter flying on Helicopter Route H4; any aircraft flying in accordance with an Enhanced Non-Standard Flight clearance issued by the appropriate ATC unit; any aircraft approaching to, or departing from, London/City Airport. See also ENR 1.1, paragraph 4.1.6. SI 2091/2004. Contact: www.nats.co.uk/nsf
EGR160 THE SPECIFIED AREA 512912N 0001716W - 513420N 0001407W - 513318N 0000904W - 513409N 0000318W - 513130N 0000045W - 512645N 0000044W - 512712N 0000610W - 512515N 0001222W - 512854N 0001407W - 512912N 0001716W Excluding so much of the bed of the River Thames as lies within that area between the ordinary high water marks on each of its banks.	Upper limit: UNL Lower limit: SFC	Except with the written permission of the Civil Aviation Authority a helicopter shall not fly over the Specified Area of Central London below such a height as would enable it, in the event of an engine failure, to land clear of that area. See also ENR 1.1, subsection 4. Further information may be obtained from the General Aviation Department (for non-public transport operations) or Flight Operations Department (for public transport operations) of the Civil Aviation Authority, Tel: 01293-567171. SI 964/2005.
EGR204 LONG LARTIN A circle, 2 NM radius, centred at 520627N 0015119W	Upper limit: 2200 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. SI 1989/2118 and SI 1991/1679. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR212 WHITEMOOR A circle, 2 NM radius, centred at 523430N 0000446E	Upper limit: 2000 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. SI 1991/1679. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR214 WOODHILL A circle, 1.5 NM radius, centred at 520049N 0004813W	Upper limit: 2400 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR217 SIZEWELL A circle, 2 NM radius, centred at 521250N 0013707E	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Sizewell, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR219 SANDRINGHAM HOUSE 524819N 0003104E thence clockwise by the arc of a circle radius 1.5 NM centred on 524948N 0003049E to 525117N 0003033E - 525132N 0003424E thence anti-clockwise by the arc of a circle radius 1.5 NM centred on 525003N 0003447E to 524834N 0003510E - 524819N 0003104E	Upper limit: 2000 FT ALT Lower limit: SFC	Flight Permitted by: any aircraft operated by or on behalf of a Police Air Support Unit; any aircraft operated by or on behalf of an Emergency Medical Service; any aircraft operated by or on behalf of the Maritime and Coastguard Agency; any aircraft operated by or on behalf of the King's Helicopter Flight; any aircraft operated by or on behalf of a member of the Royal Family; any Aircraft flying in accordance with the permission of the Norfolk and Suffolk Constabulary Royalty and VIP Protection Unit; any aircraft landing in the grounds of Sandringham House at the invitation of the person in charge of the household there, provided that the Norfolk and Suffolk Constabulary Royalty and VIP Protection Unit has been informed in advance of such intended landing. SI 276/2025 283/2025. Contact: Norfolk and Suffolk Constabulary Royalty and VIP Protection Unit, Tel: 01953-425699, extension 7910.
EGR220 ANMER HALL A circle, 1.5 NM radius, centred at 525003N 0003447E	Upper limit: 2000 FT ALT Lower limit: SFC	Flight Permitted by: any aircraft operated by or on behalf of a Police Air Support Unit; any aircraft operated by or on behalf of an Emergency Medical Service; any aircraft operated by or on behalf of the Maritime and Coastguard Agency; any aircraft operated by or on behalf of the King's Helicopter Flight; any aircraft operated by or on behalf of a member of the Royal Family; any aircraft flying in accordance with the permission of the Norfolk and Suffolk Constabulary Royalty and VIP Protection Unit; any aircraft landing in the grounds of Anmer Hall at the invitation of the person in charge of the household there, provided that the Norfolk and Suffolk Constabulary Royalty and VIP Protection Unit has been informed in advance of such intended landing. SI 265/2025. Contact: Norfolk and Suffolk Constabulary Royalty and VIP Protection Unit, Tel: 01953-425699, extension 7910.
EGR311 CAPENHURST A circle, 2 NM radius, centred at 531550N 0025708W	Upper limit: 2200 FT ALT Lower limit: SFC	SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR312 SPRINGFIELDS A circle, 2 NM radius, centred at 534634N 0024815W	Upper limit: 2100 FT ALT Lower limit: SFC	Flight permitted at not less than 1670 FT above mean sea level for the purpose of landing at Blackpool Airport. Flight permitted in airspace lying south of a straight line drawn from 534644N 0024454W to 534513N 0025044W for the purpose of landing at or taking off from Warton Aerodrome. Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Springfields, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR315 FULL SUTTON A circle, 2 NM radius, centred at 535837N 0005224W	Upper limit: 2000 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. SI 1989/2118 and SI 1991/1679. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR319 MANCHESTER A circle, 1 NM radius, centred at 532934N 0021450W	Upper limit: 1700 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR321 WAKEFIELD A circle, 1.3 NM radius, centred at 534057N 0013034W	Upper limit: 1600 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR322 WYLFA A circle, 2 NM radius, centred at 532458N 0042852W	Upper limit: 2100 FT ALT Lower limit: SFC	Flight permitted at a height of not less than 2000 FT above ground level whilst operating under and in accordance with a clearance from the air traffic control unit at RAF Valley. Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Wylfa, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR323 NORTH WEST TRANSIT CORRIDOR 533124N 0023102W - 532056N 0023103W - 532141N 0023000W - 531255N 0023000W - 531050N 0022814W following the line of latitude to - 531050N 0023224W - 531130N 0023744W - 532708N 0023744W - 533011N 0024123W - 533124N 0023102W	Upper limit: 1500 FT ALT Lower limit: SFC	Flight permitted by any aircraft - (a) flying in accordance with the following criteria - (i) at a speed which according to its airspeed indicator is 140 KT or less; (ii) in-flight visibility of 5 KM or more; (iii) mandatory use of the Manchester or Liverpool atmospheric pressure setting QNH (a); and (iv) a maximum certificated take-off mass (MCTOM) of up to 40,000 KG. (b) Restriction (a)(ii) does not apply to any aircraft operated by or on behalf of - (i) the National Police Air Service; (ii) the Helicopter Emergency Medical Service; (iii) The King's Helicopter Flight; or (iv) the Maritime and Coastguard Agency for the purpose of search and rescue only. (c) The restrictions listed in paragraph (a) do not apply to unmanned aerial systems flying in accordance with visual line of sight below 400 FT AGL, or those operating with the authorisation of the Civil Aviation Authority. (d) aircraft where flying is already prohibited by the Air Navigation (Restriction of Flying) (Prisons and Young Offender Institutions) (England and Wales) Regulations 2023(a), remain prohibited. SI 2024/1199 SI 2025/314 Exemptions to be sought via NATS Non-Standard Flight (NSF) application online.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR413 SELLAFIELD A circle, 2 NM radius, centred at 542505N 0032944W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Sellafield, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR431 MAGHABERRY A circle, 2 NM radius, centred at 543053N 0061110W	Upper limit: 2000 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR432 FRANKLAND/DURHAM 544859N 0013617W thence clockwise by the arc of a circle radius 2 NM centred on 544820N 0013301W to 544741N 0012945W - 544544N 0013054W thence clockwise by the arc of a circle radius 2 NM centred on 544623N 0013410W to 544702N 0013726W - 544859N 0013617W	Upper limit: 2200 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR444 HEYSHAM A circle, 2 NM radius, centred at 540147N 0025452W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Heysham, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. Microlight access to Middleton Sands obtained from BMAA head office. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR445 BARROW IN FURNESS A circle, 0.5 NM radius, centred at 540635N 0031410W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Barrow in Furness, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR446 HARTLEPOOL A circle, 2 NM radius, centred at 543807N 0011049W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Hartlepool, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. Flight at a height of not less than 1800 FT amsl whilst conducting an instrument approach procedure at Teesside International Airport. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR504 SHOTTS A circle, 2 NM radius, centred at 554950N 0034935W	Upper limit: 2800 FT ALT Lower limit: SFC	The Restricted Area applies only to helicopters. Flight permitted by any helicopter operated by or on behalf of a police force for any area of the United Kingdom. SI 1989/2118 and SI 1991/1679. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR515 HUNTERSTON A circle, 2 NM radius, centred at 554317N 0045338W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Hunterston, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR516 TORNESS A circle, 2 NM radius, centred at 555806N 0022431W	Upper limit: 2100 FT ALT Lower limit: SFC	Flight permitted for the purpose of landing at or taking off from the helicopter landing area at Torness, with the permission of the person in charge of the installation and in accordance with any conditions to which that permission is subject. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR603 ROSYTH A circle, 0.5 NM radius, centred at 560147N 0032703W	Upper limit: 2000 FT ALT Lower limit: SFC	Flight permitted within the route notified as the Kelty Lane for the purpose of making an approach to land at, or a departure from, Edinburgh Airport. SI 1003/2016. Contact: CAA Airspace Regulation Operations, Tel: 01293-983880.
EGR610A THE HIGHLANDS 583000N 0033902W - 582828N 0033815W - 582356N 0032847W - 580345N 0041248W - 580300N 0043000W - 580000N 0043700W - 574700N 0042500W - 573900N 0043000W - 573800N 0044500W - 573000N 0043800W - 571800N 0045200W - 571100N 0045300W - 570900N 0050000W - 570000N 0050200W - 565400N 0050500W - 565600N 0054700W - 571300N 0053500W - 575000N 0054300W - 580000N 0051500W - 583000N 0044900W - 583000N 0043000W - 582500N 0043000W - 583000N 0042000W - 583000N 0033902W	Upper limit: 5000 FT ALT Lower limit: SFC	When active, entry of non-participating aircraft is prohibited unless flying in accordance with an authorisation given by the Military Airspace Management Cell - Low Flying (MAMC LF) at RAF (U) Swanwick, Tel: 01489-443100. In the event of an emergency which requires airborne assistance the HRA will be cleared of military low flying aircraft. Clearance for emergency service aircraft will be given by Scottish Area Control Centre in conjunction with the LFC and the Aeronautical Rescue Co-ordination Centre. New SI issued on activation. Hours: Activated by NOTAM. Not permanently active. Periods when restrictions in place promulgated by J Series NOTAM.
EGR610B THE HIGHLANDS 575000N 0054300W - 574004N 0054050W - 573840N 0055739W - 570000N 0055644W - 570000N 0061504W - 574715N 0061637W - 575000N 0054300W	Upper limit: 5000 FT ALT Lower limit: 750 FT ALT	When active, entry of non-participating aircraft is prohibited unless flying in accordance with an authorisation given by the Low Flying Co-ord (LFC) at RAF (U) Swanwick, Tel: 01489-443100. In the event of an emergency which requires airborne assistance the HRA will be cleared of military low flying aircraft. Clearance for emergency service aircraft will be given by Scottish Area Control Centre in conjunction with the LFC and the Aeronautical Rescue Co-ordination Centre. New SI issued on activation. Hours: Activated by NOTAM. Not permanently active. Periods when restrictions in place promulgated by J Series NOTAM.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR610C THE HIGHLANDS 582218N 0033224W - 581434N 0031929W - 581121N 0032654W - 581900N 0033940W - 582218N 0033224W	Upper limit: 2000 FT ALT Lower limit: SFC	When active, entry of non-participating aircraft is prohibited unless flying in accordance with an authorisation given by the Low Flying Co-ord (LFC) at RAF (U) Swanwick, Tel: 01489-443100. Additionally a tactical clearance may be provided by the Range Control Officer for Tain Range during their hours of operation on 122.755. In the event of an emergency which requires airborne assistance the HRA will be cleared of military low flying aircraft. Clearance for emergency service aircraft will be given by Scottish Area Control Centre in conjunction with the LFC and the Aeronautical Rescue Co-ordination Centre. New SI issued on activation. Hours: Activated by NOTAM. Not permanently active. Periods when restrictions in place promulgated by J Series NOTAM.
EGR610D THE HIGHLANDS 574900N 0040606W - 574500N 0040254W - 574234N 0041056W - 573900N 0043000W - 574700N 0042500W - 574900N 0040606W	Upper limit: 2000 FT ALT Lower limit: SFC	When active, entry of non-participating aircraft is prohibited unless flying in accordance with an authorisation given by the Low Flying Co-ord (LFC) at RAF (U) Swanwick, Tel: 01489-443100. Additionally a tactical clearance may be provided by the Range Control Officer for Tain Range during their hours of operation on 122.755. In the event of an emergency which requires airborne assistance the HRA will be cleared of military low flying aircraft. Clearance for emergency service aircraft will be given by Scottish Area Control Centre in conjunction with the LFC and the Aeronautical Rescue Co-ordination Centre. New SI issued on activation. Hours: Activated by NOTAM. Not permanently active. Periods when restrictions in place promulgated by J Series NOTAM.
EGR704 BALMORAL A circle, 1 NM radius, centred at 570227N 0031349W	Upper limit: 3500 FT ALT Lower limit: SFC	Flight permitted by: Any aircraft operated by or on behalf of Police Scotland; any aircraft operated by or on behalf of the Scottish Air Ambulance Service; any aircraft operated by or on behalf of the Maritime and Coastguard Agency for the purposes of a Search and Rescue operation; any aircraft operated by or on behalf of The King's Helicopter Flight; any aircraft flying in accordance with a permission issued by the Police Scotland Royalty and VIP Planning North Unit or the Metropolitan Police, Royalty and Specialist Protection, or either — Operated by a member of the Royal Family, or landing in the grounds of Balmoral at the invitation of the person in charge of the household there, provided that the Police Scotland Royalty and VIP Planning North Unit or the Metropolitan Police, Royalty and Specialist Protection has been informed in advance of such intended flight or landing. SI 2019/1321. Contact: Refer to Statutory Instrument. Hours: In the period 0001 hours on 16th May and ending at 2359 hours on 2nd June each year, and in the period 0001 hours on 10th July and ending at 2359 hours on 31st October each year.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGR705 BIRKHALL A circle, 1 NM radius, centred at 570144N 0030427W	Upper limit: 3500 FT ALT Lower limit: SFC	Flight permitted by: Any aircraft operated by, or on behalf of, Police Scotland; any aircraft operated by, or on behalf of, the Scottish Air Ambulance Service; any aircraft operated by, or on behalf of, the Maritime and Coastguard Agency for the purposes of a Search and Rescue operation; any aircraft operated by, or on behalf of, The King's Helicopter Flight; any aircraft flying in accordance with a permission issued by the Police Scotland Royalty and VIP Planning North Unit or the Metropolitan Police, Royalty and Specialist Protection, or either — Operated by a member of the Royal Family, or landing in the grounds of Birkhall at the invitation of the person in charge of the household there, provided that the Police Scotland Royalty and VIP Planning North Unit or the Metropolitan Police, Royalty and Specialist Protection has been informed in advance of such intended flight or landing. SI 2019/1320. Contact: Refer to Statutory Instrument.
EGRU001A LAND'S END A circle, 2 NM radius, centred at 500610N 0054014W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU001B LAND'S END RWY 02 500326N 0054128W - 500337N 0054215W - 500426N 0054148W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500414N 0054102W - 500326N 0054128W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU001C LAND'S END RWY 20 500855N 0053919W - 500845N 0053832W - 500759N 0053857W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500808N 0053945W - 500855N 0053919W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU001D LAND'S END RWY 07 500441N 0054420W - 500511N 0054441W - 500537N 0054314W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500508N 0054254W - 500441N 0054420W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU001E LAND'S END RWY 25 500738N 0053637W - 500708N 0053616W - 500650N 0053718W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500718N 0053741W - 500738N 0053637W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU001F LAND'S END RWY 11 500657N 0054430W - 500726N 0054411W - 500707N 0054258W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500637N 0054316W - 500657N 0054430W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU001G LAND'S END RWY 29 500516N 0053607W - 500446N 0053627W - 500505N 0053737W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500535N 0053716W - 500516N 0053607W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU001H LAND'S END RWY 16 500843N 0054216W - 500855N 0054130W - 500806N 0054059W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500754N 0054146W - 500843N 0054216W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU001I LAND'S END RWY 34 500334N 0053810W - 500322N 0053857W - 500413N 0053929W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500610N 0054014W to 500425N 0053842W - 500334N 0053810W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU002A PENZANCE A circle, 2 NM radius, centred at 500749N 0053050W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the heliport operator. For contact details see AIP, Part 3 - Heliports, Section AD 3.2
EGRU002B PENZANCE RWY 08 500706N 0053454W - 500738N 0053503W - 500745N 0053357W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500749N 0053050W to 500713N 0053348W - 500706N 0053454W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the heliport operator. For contact details see AIP, Part 3 - Heliports, Section AD 3.2
EGRU002C PENZANCE RWY 26 500833N 0052646W - 500801N 0052637W - 500754N 0052744W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500749N 0053050W to 500826N 0052752W - 500833N 0052646W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the heliport operator. For contact details see AIP, Part 3 - Heliports, Section AD 3.2
EGRU003A CULDROSE A circle, 2.5 NM radius, centred at 500507N 0051515W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU003B CULDROSE RWY 06 500339N 0051921W - 500408N 0051944W - 500423N 0051857W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 500507N 0051515W to 500353N 0051837W - 500339N 0051921W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU003C CULDROSE RWY 24 500650N 0051129W - 500621N 0051106W - 500609N 0051142W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 500507N 0051515W to 500637N 0051208W - 500650N 0051129W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU003D CULDROSE RWY 11 500607N 0051959W - 500637N 0051939W - 500620N 0051838W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 500507N 0051515W to 500550N 0051858W - 500607N 0051959W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU003E CULDROSE RWY 29 500408N 0051031W - 500338N 0051050W - 500355N 0051151W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 500507N 0051515W to 500424N 0051132W - 500408N 0051031W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU003F CULDROSE RWY 18 500805N 0051538W - 500806N 0051448W - 500736N 0051447W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 500507N 0051515W to 500737N 0051537W - 500805N 0051538W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU003G CULDROSE RWY 36 500209N 0051433W - 500208N 0051524W - 500238N 0051525W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 500507N 0051515W to 500240N 0051435W - 500209N 0051433W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004A PREDANNACK A circle, 2 NM radius, centred at 500007N 0051354W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004B PREDANNACK RWY 05 495742N 0051701W - 495805N 0051736W - 495854N 0051622W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 495831N 0051546W - 495742N 0051701W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004C PREDANNACK RWY 23 500232N 0051048W - 500209N 0051012W - 500121N 0051127W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 500143N 0051203W - 500232N 0051048W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004D PREDANNACK RWY 09 495940N 0051842W - 500013N 0051843W - 500013N 0051700W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 495940N 0051656W - 495940N 0051842W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004E PREDANNACK RWY 27 500013N 0050926W - 495941N 0050926W - 495941N 0051053W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 500013N 0051049W - 500013N 0050926W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004F PREDANNACK RWY 13 500131N 0051744W - 500157N 0051713W - 500127N 0051613W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 500100N 0051641W - 500131N 0051744W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004G PREDANNACK RWY 31 495826N 0051006W - 495800N 0051037W - 495837N 0051152W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 495902N 0051119W - 495826N 0051006W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004H PREDANNACK RWY 18 500307N 0051420W - 500308N 0051330W - 500206N 0051328W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 500206N 0051419W - 500307N 0051420W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU004I PREDANNACK RWY 36 495707N 0051321W - 495706N 0051411W - 495808N 0051413W thence anti-clockwise by the arc of a circle radius 2 NM centred on 500007N 0051354W to 495809N 0051322W - 495707N 0051321W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU005A NEWQUAY A circle, 2.5 NM radius, centred at 502627N 0045943W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU005B NEWQUAY RWY 12 502758N 0050435W - 502825N 0050409W - 502756N 0050252W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 502627N 0045943W to 502728N 0050317W - 502758N 0050435W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU005C NEWQUAY RWY 30 502501N 0045506W - 502433N 0045531W - 502457N 0045635W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 502627N 0045943W to 502525N 0045610W - 502501N 0045506W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU006A EXETER A circle, 2.5 NM radius, centred at 504403N 0032450W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU006B EXETER RWY 08 504301N 0032942W - 504332N 0032954W - 504343N 0032844W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 504403N 0032450W to 504312N 0032831W - 504301N 0032942W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU006C EXETER RWY 26 504506N 0031958W - 504434N 0031946W - 504423N 0032056W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 504403N 0032450W to 504455N 0032108W - 504506N 0031958W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU007A DUNKESWELL A circle, 2 NM radius, centred at 505136N 0031405W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU007B DUNKESWELL RWY 04 504912N 0031650W - 504933N 0031729W - 505017N 0031628W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505136N 0031405W to 504956N 0031549W - 504912N 0031650W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU007C DUNKESWELL RWY 22 505400N 0031120W - 505339N 0031042W - 505255N 0031142W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505136N 0031405W to 505316N 0031221W - 505400N 0031120W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU008A MERRYFIELD A circle, 2.5 NM radius, centred at 505747N 0025620W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU008B MERRYFIELD RWY 03 505506N 0025754W - 505519N 0025840W - 505540N 0025825W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505747N 0025620W to 505526N 0025739W - 505506N 0025754W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU008C MERRYFIELD RWY 21 510051N 0025444W - 510038N 0025357W - 505958N 0025425W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505747N 0025620W to 510011N 0025512W - 510051N 0025444W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU008D MERRYFIELD RWY 09 505714N 0030118W - 505746N 0030122W - 505750N 0030017W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505747N 0025620W to 505718N 0030012W - 505714N 0030118W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU008E MERRYFIELD RWY 27 505820N 0025122W - 505748N 0025117W - 505745N 0025223W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505747N 0025620W to 505817N 0025227W - 505820N 0025122W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU008F MERRYFIELD RWY 16 510036N 0025807W - 510047N 0025718W - 510015N 0025702W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505747N 0025620W to 510006N 0025751W - 510036N 0025807W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU008G MERRYFIELD RWY 34 505508N 0025421W - 505458N 0025510W - 505522N 0025522W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505747N 0025620W to 505533N 0025434W - 505508N 0025421W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU009A YEOVIL/WESTLAND 505817N 0024035W - 505804N 0023747W thence clockwise by the arc of a circle radius 2 NM centred on 505624N 0023932W to 505817N 0024035W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU009B YEOVIL/WESTLAND RWY 09 505614N 0024415W - 505646N 0024414W - 505644N 0024239W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505624N 0023932W to 505612N 0024241W - 505614N 0024415W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU009C YEOVIL/WESTLAND RWY 27 505635N 0023449W - 505602N 0023450W - 505604N 0023625W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505624N 0023932W to 505636N 0023623W - 505635N 0023449W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU010A COMPTON ABBAS A circle, 2 NM radius, centred at 505802N 0020913W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU010B COMPTON ABBAS RWY 08 505708N 0021337W - 505739N 0021349W - 505752N 0021222W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505802N 0020913W to 505720N 0021211W - 505708N 0021337W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU010C COMPTON ABBAS RWY 26 505857N 0020449W - 505825N 0020438W - 505813N 0020604W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505802N 0020913W to 505844N 0020615W - 505857N 0020449W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU011A BOURNEMOUTH A circle, 2.5 NM radius, centred at 504648N 0015033W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU011B BOURNEMOUTH RWY 08 504546N 0015508W - 504617N 0015521W - 504626N 0015427W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 504648N 0015033W to 504555N 0015414W - 504546N 0015508W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU011C BOURNEMOUTH RWY 26 504754N 0014536W - 504723N 0014523W - 504710N 0014639W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 504648N 0015033W to 504742N 0014652W - 504754N 0014536W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU012A SOUTHAMPTON A circle, 2.5 NM radius, centred at 505701N 0012124W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU012B SOUTHAMPTON RWY 02 505359N 0012239W - 505410N 0012327W - 505446N 0012307W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505701N 0012124W to 505435N 0012218W - 505359N 0012239W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU012C SOUTHAMPTON RWY 20 510004N 0012010W - 505953N 0011921W - 505916N 0011942W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 505701N 0012124W to 505927N 0012030W - 510004N 0012010W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU013A LEE-ON-SOLENT 504810N 0010930W thence anti-clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 504824N 0010921W - 505049N 0011117W thence anti-clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 504810N 0010930W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU013B LEE-ON-SOLENT RWY 05 504641N 0011523W - 504704N 0011559W - 504744N 0011455W thence anti-clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 504721N 0011419W - 504641N 0011523W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU013C LEE-ON-SOLENT RWY 23 505115N 0010919W - 505052N 0010843W - 504947N 0011027W - 505017N 0011052W - 505115N 0010919W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU014A FLEETLANDS 504810N 0010929W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505007N 0011010W to 505054N 0011304W thence clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 505049N 0011117W - 504824N 0010921W thence clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 504810N 0010929W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the heliport operator. For contact details, see UK MIL AIP, Part 3 - Heliports, Section AD 3.2
EGRU015A CHICHESTER/GOODWOOD A circle, 2 NM radius, centred at 505134N 0004533W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU015B CHICHESTER/GOODWOOD RWY 06 504950N 0004906W - 505017N 0004934W - 505045N 0004826W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505134N 0004533W to 505018N 0004800W - 504950N 0004906W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU015C CHICHESTER/GOODWOOD RWY 24 505327N 0004155W - 505300N 0004127W - 505228N 0004244W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505134N 0004533W to 505254N 0004313W - 505327N 0004155W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU015D CHICHESTER/GOODWOOD RWY 10 505207N 0005003W - 505239N 0004952W - 505226N 0004824W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505134N 0004533W to 505155N 0004840W - 505207N 0005003W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU015E CHICHESTER/GOODWOOD RWY 28 505121N 0004059W - 505049N 0004110W - 505101N 0004231W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505134N 0004533W to 505133N 0004224W - 505121N 0004059W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU015F CHICHESTER/GOODWOOD RWY 14 505338N 0004857W - 505359N 0004818W - 505314N 0004717W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505134N 0004533W to 505253N 0004755W - 505338N 0004857W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU015G CHICHESTER/GOODWOOD RWY 32 504930N 0004212W - 504909N 0004250W - 504953N 0004350W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505134N 0004533W to 505014N 0004312W - 504930N 0004212W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016A SHOREHAM A circle, 2 NM radius, centred at 505008N 0001750W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016B SHOREHAM RWY 02 504721N 0001907W - 504733N 0001954W - 504824N 0001923W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 504812N 0001836W - 504721N 0001907W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016C SHOREHAM RWY 20 505257N 0001632W - 505245N 0001544W - 505153N 0001617W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 505204N 0001705W - 505257N 0001632W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016D SHOREHAM RWY 02G 504726N 0001901W - 504737N 0001949W - 504823N 0001920W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 504811N 0001833W - 504726N 0001901W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU016E SHOREHAM RWY 20G 505257N 0001630W - 505245N 0001542W - 505152N 0001615W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 505204N 0001703W - 505257N 0001630W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016F SHOREHAM RWY 06 504834N 0002129W - 504903N 0002152W - 504924N 0002046W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 504856N 0002021W - 504834N 0002129W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016G SHOREHAM RWY 24 505136N 0001347W - 505107N 0001324W - 505041N 0001448W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 505110N 0001508W - 505136N 0001347W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016H SHOREHAM RWY 13 505137N 0002125W - 505204N 0002056W - 505137N 0001956W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 505113N 0002029W - 505137N 0002125W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU016I SHOREHAM RWY 31 504851N 0001339W - 504825N 0001408W - 504856N 0001519W thence anti-clockwise by the arc of a circle radius 2 NM centred on 505008N 0001750W to 504924N 0001454W - 504851N 0001339W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU017A LYDD A circle, 2 NM radius, centred at 505722N 0005621E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU017B LYDD RWY 03 505437N 0005403E - 505454N 0005320E - 505551N 0005418E thence anti-clockwise by the arc of a circle radius 2 NM centred on 505722N 0005621E to 505534N 0005501E - 505437N 0005403E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU017C LYDD RWY 21 510007N 0005838E - 505949N 0005921E - 505853N 0005824E thence anti-clockwise by the arc of a circle radius 2 NM centred on 505722N 0005621E to 505911N 0005741E - 510007N 0005838E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU019A LERWICK/TINGWALL A circle, 2 NM radius, centred at 601131N 0011437W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU019B LERWICK/TINGWALL RWY 01 600839N 0011524W - 600847N 0011627W - 600939N 0011603W thence anti-clockwise by the arc of a circle radius 2 NM centred on 601131N 0011437W to 600932N 0011500W - 600839N 0011524W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU019C LERWICK/TINGWALL RWY 19 601424N 0011349W - 601417N 0011245W - 601323N 0011311W thence anti-clockwise by the arc of a circle radius 2 NM centred on 601131N 0011437W to 601330N 0011414W - 601424N 0011349W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU020 HMP CHANNINGS WOOD 503110N 0033918W - 503108N 0033842W - 503054N 0033836W - 503029N 0033847W - 503022N 0033920W - 503034N 0033946W - 503049N 0033947W - 503110N 0033918W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 291 FT AMSL
EGRU021 HMP DARTMOOR 503318N 0035946W - 503312N 0035925W - 503259N 0035917W - 503247N 0035924W - 503235N 0035957W - 503308N 0040020W - 503318N 0035946W	Upper limit: 1900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 1403 FT AMSL
EGRU022 HMP EXETER 504400N 0033157W - 504357N 0033136W - 504332N 0033124W - 504325N 0033218W - 504352N 0033230W - 504400N 0033157W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 184 FT AMSL
EGRU023 HMP GUYS MARSH 505925N 0021325W - 505928N 0021252W - 505901N 0021229W - 505842N 0021316W - 505909N 0021348W - 505925N 0021325W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 346 FT AMSL
EGRU024 HMP ISLE OF WIGHT 504308N 0011912W - 504318N 0011810W - 504227N 0011750W - 504216N 0011840W - 504308N 0011912W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 157 FT AMSL
EGRU025 HMP LEWES 505243N 0000018W - 505231N 0000006E - 505216N 0000007E - 505200N 0000032W - 505228N 0000058W - 505243N 0000018W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 207 FT AMSL
EGRU026 HMP PORTLAND 503323N 0022549W - 503325N 0022513W - 503306N 0022455W - 503247N 0022444W - 503243N 0022529W - 503306N 0022556W - 503323N 0022549W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 382 FT AMSL
EGRU027 HMP THE VERNE 503359N 0022615W - 503358N 0022546W - 503333N 0022528W - 503320N 0022612W - 503326N 0022617W - 503327N 0022640W - 503351N 0022636W - 503359N 0022615W	Upper limit: 900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 476 FT AMSL
EGRU101A HAVERFORDWEST A circle, 2 NM radius, centred at 515000N 0045739W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU101B HAVERFORDWEST RWY 03 514716N 0045940W - 514732N 0050025W - 514825N 0045937W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515000N 0045739W to 514809N 0045851W - 514716N 0045940W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU101C HAVERFORDWEST RWY 21 515243N 0045539W - 515227N 0045454W - 515135N 0045541W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515000N 0045739W to 515151N 0045627W - 515243N 0045539W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU101D HAVERFORDWEST RWY 09 514940N 0050222W - 515012N 0050224W - 515015N 0050051W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515000N 0045739W to 514942N 0050050W - 514940N 0050222W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU101E HAVERFORDWEST RWY 27 515027N 0045311W - 514955N 0045309W - 514953N 0045426W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515000N 0045739W to 515025N 0045430W - 515027N 0045311W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU103A SWANSEA A circle, 2 NM radius, centred at 513619N 0040404W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU103B SWANSEA RWY 04 513341N 0040638W - 513400N 0040720W - 513453N 0040618W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513619N 0040404W to 513434N 0040536W - 513341N 0040638W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU103C SWANSEA RWY 22 513854N 0040133W - 513835N 0040052W - 513745N 0040150W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513619N 0040404W to 513804N 0040232W - 513854N 0040133W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU103D SWANSEA RWY 10 513606N 0040854W - 513638N 0040848W - 513632N 0040715W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513619N 0040404W to 513559N 0040714W - 513606N 0040854W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU103E SWANSEA RWY 28 513600N 0035931W - 513527N 0035937W - 513534N 0040106W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513619N 0040404W to 513605N 0040053W - 513600N 0035931W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU104A ST ATHAN 512532N 0032328W - 512241N 0032410W thence clockwise by the arc of a circle radius 2 NM centred on 512419N 0032600W to 512532N 0032328W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU104B ST ATHAN RWY 07 512308N 0033043W - 512339N 0033058W - 512400N 0032909W thence anti-clockwise by the arc of a circle radius 2 NM centred on 512419N 0032600W to 512329N 0032854W - 512308N 0033043W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU104C ST ATHAN RWY 25 512530N 0032116W - 512459N 0032101W - 512428N 0032344W - 512503N 0032335W - 512530N 0032116W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU105A CARDIFF 512532N 0032328W thence clockwise by the arc of a circle radius 2.5 NM centred on 512348N 0032036W to 512241N 0032410W - 512532N 0032328W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU105B CARDIFF RWY 12 512500N 0032523W - 512529N 0032500W - 512502N 0032335W - 512429N 0032344W - 512500N 0032523W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU105C CARDIFF RWY 30 512234N 0031546W - 512205N 0031610W - 512226N 0031715W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 512348N 0032036W to 512255N 0031652W - 512234N 0031546W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU106A BRISTOL A circle, 2.5 NM radius, centred at 512258N 0024309W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU106B BRISTOL RWY 09 512229N 0024817W - 512302N 0024820W - 512304N 0024708W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 512258N 0024309W to 512232N 0024705W - 512229N 0024817W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU106C BRISTOL RWY 27 512325N 0023807W - 512253N 0023804W - 512251N 0023910W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 512258N 0024309W to 512323N 0023913W - 512325N 0023807W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU107A YEOVILTON 505817N 0024035W thence clockwise by the arc of a circle radius 2.5 NM centred on 510030N 0023844W to 505804N 0023747W - 505817N 0024035W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU107B YEOVILTON RWY 04 505754N 0024053W - 505814N 0024134W - 505832N 0024111W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510030N 0023844W to 505817N 0024035W - 505817N 0024026W - 505754N 0024053W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU107C YEOVILTON RWY 22 510310N 0023540W - 510250N 0023459W - 510210N 0023547W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510030N 0023844W to 510232N 0023626W - 510310N 0023540W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU107D YEOVILTON RWY 08 505950N 0024354W - 510022N 0024400W - 510028N 0024241W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510030N 0023844W to 505956N 0024235W - 505950N 0024354W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU107E YEOVILTON RWY 26 510110N 0023334W - 510038N 0023328W - 510032N 0023446W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510030N 0023844W to 510104N 0023452W - 510110N 0023334W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU108 PORT OF DOVER 510907N 0012206E thence clockwise by the arc of a circle radius 2.25 NM centred on 510800N 0011900E to 510656N 0011551E - 510907N 0012206E	Upper limit: 1000 FT ALT Lower limit: SFC	Flight permitted by any unmanned aircraft: operating in the service of the Port of Dover Police; operating in the service of the Kent Police; operating in the service of Kent Fire and Rescue Service; or operating with the permission of the Port of Dover Police. SI 1329/2019. Contact: Refer to Statutory Instrument.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU109A GLOUCESTERSHIRE A circle, 2 NM radius, centred at 515339N 0021002W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU109B GLOUCESTERSHIRE RWY 04 515057N 0021212W - 515115N 0021255W - 515204N 0021200W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515339N 0021002W to 515148N 0021115W - 515057N 0021212W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU109C GLOUCESTERSHIRE RWY 22 515605N 0020732W - 515547N 0020648W - 515501N 0020740W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515339N 0021002W to 515521N 0020821W - 515605N 0020732W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU109F GLOUCESTERSHIRE RWY 09 515302N 0021455W - 515335N 0021500W - 515342N 0021316W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515339N 0021002W to 515310N 0021310W - 515302N 0021455W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU109G GLOUCESTERSHIRE RWY 27 515414N 0020522W - 515342N 0020517W - 515335N 0020648W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515339N 0021002W to 515408N 0020654W - 515414N 0020522W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU110A KEMBLE A circle, 2 NM radius, centred at 514005N 0020325W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU110B KEMBLE RWY 08 513918N 0020819W - 513950N 0020828W - 514001N 0020638W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514005N 0020325W to 513929N 0020629W - 513918N 0020819W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU110C KEMBLE RWY 26 514052N 0015832W - 514020N 0015823W - 514009N 0020013W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514005N 0020325W to 514041N 0020021W - 514052N 0015832W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU110D KEMBLE RWY 08G 513924N 0020746W - 513956N 0020755W - 514004N 0020638W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514005N 0020325W to 513932N 0020630W - 513924N 0020746W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU110E KEMBLE RWY 26G 514053N 0015853W - 514021N 0015844W - 514012N 0020013W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514005N 0020325W to 514044N 0020023W - 514053N 0015853W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU111A FAIRFORD A circle, 2.5 NM radius, centred at 514101N 0014724W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU111B FAIRFORD RWY 09 514037N 0015302W - 514110N 0015304W - 514112N 0015124W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 514101N 0014724W to 514039N 0015123W - 514037N 0015302W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU111C FAIRFORD RWY 27 514124N 0014146W - 514052N 0014144W - 514050N 0014324W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 514101N 0014724W to 514122N 0014325W - 514124N 0014146W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU112A NETHERAVON A circle, 2 NM radius, centred at 511453N 0014517W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU112B NETHERAVON RWY 04 511235N 0014751W - 511255N 0014830W - 511333N 0014739W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511453N 0014517W to 511312N 0014700W - 511235N 0014751W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU112C NETHERAVON RWY 22 511718N 0014235W - 511657N 0014156W - 511613N 0014255W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511453N 0014517W to 511634N 0014335W - 511718N 0014235W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU112D NETHERAVON RWY 11 511535N 0014957W - 511605N 0014941W - 511546N 0014809W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511453N 0014517W to 511515N 0014825W - 511535N 0014957W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU112E NETHERAVON RWY 29 511412N 0014038W - 511341N 0014054W - 511400N 0014226W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511453N 0014517W to 511431N 0014210W - 511412N 0014038W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU113A BOSCOMBE A circle, 2.5 NM radius, centred at 510912N 0014504W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU113B BOSCOMBE RWY 05 510643N 0014908W - 510707N 0014941W - 510749N 0014822W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 510724N 0014749W - 510643N 0014908W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU113C BOSCOMBE RWY 23 511139N 0014103W - 511114N 0014030W - 511035N 0014145W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 511100N 0014218W - 511139N 0014103W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU113D BOSCOMBE RWY 05N 510706N 0014834W - 510731N 0014907W - 510753N 0014826W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 510727N 0014754W - 510706N 0014834W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU113E BOSCOMBE RWY 23N 511114N 0014202W - 511049N 0014129W - 511039N 0014149W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 511103N 0014223W - 511114N 0014202W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU113F BOSCOMBE RWY 05S 510635N 0014909W - 510700N 0014941W - 510745N 0014817W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 510720N 0014743W - 510635N 0014909W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU113H BOSCOMBE RWY 17 511215N 0014526W - 511223N 0014436W - 511139N 0014419W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 511142N 0014513W - 511215N 0014526W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU113I BOSCOMBE RWY 35 510608N 0014214W - 510600N 0014304W - 510656N 0014325W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510912N 0014504W to 510713N 0014238W - 510608N 0014214W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU114A THRUXTON A circle, 2 NM radius, centred at 511240N 0013549W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Requests for permission to fly an unmanned aircraft are to be made to the Duty Operations Manager (Tel: 01264-772352 or Email: tower@thruxton.com). Requests are to be made at least 36 hours prior to the intended commencement of a flight.
EGRU114B THRUXTON RWY 07 511117N 0013954W - 511147N 0014014W - 511209N 0013853W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511240N 0013549W to 511139N 0013833W - 511117N 0013954W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Requests for permission to fly an unmanned aircraft are to be made to the Duty Operations Manager (Tel: 01264-772352 or Email: tower@thruxton.com). Requests are to be made at least 36 hours prior to the intended commencement of a flight.
EGRU114C THRUXTON RWY 25 511403N 0013144W - 511334N 0013124W - 511312N 0013245W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511240N 0013549W to 511342N 0013305W - 511403N 0013144W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Requests for permission to fly an unmanned aircraft are to be made to the Duty Operations Manager (Tel: 01264-772352 or Email: tower@thruxton.com). Requests are to be made at least 36 hours prior to the intended commencement of a flight.
EGRU114D THRUXTON RWY 12 511357N 0014004W - 511424N 0013936W - 511354N 0013820W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511240N 0013549W to 511326N 0013846W - 511357N 0014004W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Requests for permission to fly an unmanned aircraft are to be made to the Duty Operations Manager (Tel: 01264-772352 or Email: tower@thruxton.com). Requests are to be made at least 36 hours prior to the intended commencement of a flight.
EGRU114E THRUXTON RWY 30 511116N 0013150W - 511048N 0013218W - 511118N 0013331W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511240N 0013549W to 511144N 0013301W - 511116N 0013150W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Requests for permission to fly an unmanned aircraft are to be made to the Duty Operations Manager (Tel: 01264-772352 or Email: tower@thruxton.com). Requests are to be made at least 36 hours prior to the intended commencement of a flight.
EGRU115A BRIZE NORTON A circle, 2.5 NM radius, centred at 514500N 0013459W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU115B BRIZE NORTON RWY 07 514344N 0014017W - 514415N 0014032W - 514433N 0013856W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 514500N 0013459W to 514402N 0013841W - 514344N 0014017W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU115C BRIZE NORTON RWY 25 514615N 0012940W - 514544N 0012925W - 514527N 0013101W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 514500N 0013459W to 514558N 0013116W - 514615N 0012940W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU116A MIDDLE WALLOP A circle, 2 NM radius, centred at 510828N 0013422W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU116B MIDDLE WALLOP RWY 08 510812N 0013842W - 510844N 0013847W - 510849N 0013729W thence anti-clockwise by the arc of a circle radius 2 NM centred on 510828N 0013422W to 510816N 0013731W - 510812N 0013842W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU116C MIDDLE WALLOP RWY 26 510922N 0012924W - 510849N 0012919W - 510842N 0013112W thence anti-clockwise by the arc of a circle radius 2 NM centred on 510828N 0013422W to 510914N 0013126W - 510922N 0012924W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU116D MIDDLE WALLOP RWY 17 511125N 0013520W - 511129N 0013429W - 511027N 0013418W thence anti-clockwise by the arc of a circle radius 2 NM centred on 510828N 0013422W to 511024N 0013509W - 511125N 0013520W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU116E MIDDLE WALLOP RWY 35 510530N 0013323W - 510526N 0013414W - 510628N 0013426W thence anti-clockwise by the arc of a circle radius 2 NM centred on 510828N 0013422W to 510631N 0013334W - 510530N 0013323W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU117A OXFORD A circle, 2 NM radius, centred at 515013N 0011912W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU117B OXFORD RWY 01 514710N 0011941W - 514716N 0012032W - 514819N 0012013W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515013N 0011912W to 514813N 0011922W - 514710N 0011941W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU117C OXFORD RWY 19 515316N 0011843W - 515310N 0011751W - 515207N 0011811W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515013N 0011912W to 515213N 0011902W - 515316N 0011843W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU118A BENSON A circle, 2 NM radius, centred at 513654N 0010545W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU118B BENSON RWY 01 513342N 0010601W - 513347N 0010653W - 513459N 0010637W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513654N 0010545W to 513454N 0010545W - 513342N 0010601W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU118C BENSON RWY 19 514006N 0010529W - 514001N 0010437W - 513850N 0010453W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513654N 0010545W to 513854N 0010545W - 514006N 0010529W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU119A CHALGROVE A circle, 2 NM radius, centred at 514028N 0010507W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU120A ODIHAM A circle, 2 NM radius, centred at 511403N 0005634W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU120B ODIHAM RWY 09 511356N 0010140W - 511428N 0010137W - 511425N 0005942W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511403N 0005634W to 511352N 0005944W - 511356N 0010140W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU120C ODIHAM RWY 27 511410N 0005128W - 511338N 0005130W - 511341N 0005326W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511403N 0005634W to 511414N 0005324W - 511410N 0005128W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU121A BLACKBUSHE 511738N 0005215W thence clockwise by the arc of a circle radius 2 NM centred on 511926N 0005051W to 511806N 0004829W - 511801N 0004919W - 511758N 0004954W - 511753N 0005038W - 511746N 0005120W - 511738N 0005215W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU121B BLACKBUSHE RWY 07 511815N 0005513W - 511845N 0005530W - 511904N 0005359W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511926N 0005051W to 511834N 0005343W - 511815N 0005513W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU121C BLACKBUSHE RWY 25 512038N 0004631W - 512007N 0004614W - 511949N 0004743W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511926N 0005051W to 512019N 0004800W - 512038N 0004631W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU122A WYCOMBE AIR PARK/BOOKER A circle, 2 NM radius, centred at 513642N 0004830W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU122B WYCOMBE AIR PARK/BOOKER RWY 06 513508N 0005225W - 513536N 0005249W - 513602N 0005131W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513642N 0004830W to 513533N 0005107W - 513508N 0005225W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU122C WYCOMBE AIR PARK/BOOKER RWY 24 513817N 0004434W - 513748N 0004410W - 513723N 0004529W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513642N 0004830W to 513752N 0004553W - 513817N 0004434W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU122D WYCOMBE AIR PARK/BOOKER RWY 06G 513506N 0005218W - 513535N 0005242W - 513559N 0005129W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513642N 0004830W to 513531N 0005104W - 513506N 0005218W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU122E WYCOMBE AIR PARK/BOOKER RWY 24G 513814N 0004433W - 513746N 0004408W - 513720N 0004527W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513642N 0004830W to 513749N 0004550W - 513814N 0004433W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU122G WYCOMBE AIR PARK/ BOOKER RWY 35 513351N 0004703W - 513344N 0004754W - 513443N 0004815W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513642N 0004830W to 513450N 0004724W - 513351N 0004703W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU123A FARNBOROUGH 511758N 0004954W - 511801N 0004919W - 511806N 0004829W - 511812N 0004723W - 511817N 0004705W - 511851N 0004551W - 511856N 0004537W thence clockwise by the arc of a circle radius 2.5 NM centred on 511631N 0004639W to 511758N 0004954W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU123B FARNBOROUGH RWY 06 511452N 0005042W - 511521N 0005107W - 511536N 0005021W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 511631N 0004639W to 511507N 0004957W - 511452N 0005042W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU123C FARNBOROUGH RWY 24 511811N 0004233W - 511743N 0004209W - 511727N 0004257W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 511631N 0004639W to 511755N 0004322W - 511811N 0004233W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU124A WHITE WALTHAM A circle, 2 NM radius, centred at 513002N 0004629W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU124B WHITE WALTHAM RWY 03 512712N 0004802W - 512727N 0004848W - 512819N 0004807W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513002N 0004629W to 512807N 0004719W - 512712N 0004802W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU124C WHITE WALTHAM RWY 21 513247N 0004436W - 513233N 0004349W - 513137N 0004433W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513002N 0004629W to 513154N 0004518W - 513247N 0004436W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU124D WHITE WALTHAM RWY 07 512831N 0005037W - 512900N 0005059W - 512926N 0004932W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513002N 0004629W to 512857N 0004910W - 512831N 0005037W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU124E WHITE WALTHAM RWY 25 513134N 0004222W - 513104N 0004159W - 513039N 0004326W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513002N 0004629W to 513108N 0004349W - 513134N 0004222W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU124F WHITE WALTHAM RWY 11 513039N 0005100W - 513109N 0005042W - 513052N 0004925W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513002N 0004629W to 513020N 0004939W - 513039N 0005100W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU124G WHITE WALTHAM RWY 29 512909N 0004152W - 512839N 0004210W - 512900N 0004345W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513002N 0004629W to 512930N 0004324W - 512909N 0004152W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU125A HALTON A circle, 2 NM radius, centred at 514732N 0004411W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU125B HALTON RWY 02 514440N 0004521W - 514451N 0004610W - 514546N 0004539W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514732N 0004411W to 514535N 0004450W - 514440N 0004521W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU125C HALTON RWY 20 515024N 0004301W - 515013N 0004212W - 514919N 0004243W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514732N 0004411W to 514930N 0004332W - 515024N 0004301W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU125D HALTON RWY 07 514615N 0004829W - 514646N 0004846W - 514705N 0004719W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514732N 0004411W to 514635N 0004701W - 514615N 0004829W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU125E HALTON RWY 25 514840N 0004002W - 514810N 0003944W - 514753N 0004101W thence anti-clockwise by the arc of a circle radius 2 NM centred on 514732N 0004411W to 514824N 0004117W - 514840N 0004002W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU126A FAIROAKS A circle, 2 NM radius, centred at 512053N 0003331W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU126B FAIROAKS RWY 06 511907N 0003712W - 511934N 0003739W - 512003N 0003626W thence anti-clockwise by the arc of a circle radius 2 NM centred on 512053N 0003331W to 511936N 0003558W - 511907N 0003712W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU126C FAIROAKS RWY 24 512239N 0002949W - 512212N 0002922W - 512142N 0003037W thence anti-clockwise by the arc of a circle radius 2 NM centred on 512053N 0003331W to 512210N 0003104W - 512239N 0002949W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU127A DENHAM A circle, 2 NM radius, centred at 513518N 0003047W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU127B DENHAM RWY 06 513336N 0003432W - 513404N 0003459W - 513431N 0003344W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513518N 0003047W to 513404N 0003317W - 513336N 0003432W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU127C DENHAM RWY 24 513700N 0002704W - 513632N 0002637W - 513605N 0002750W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513518N 0003047W to 513633N 0002816W - 513700N 0002704W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU127D DENHAM RWY 12 513623N 0003455W - 513652N 0003431W - 513629N 0003322W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513518N 0003047W to 513600N 0003347W - 513623N 0003455W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU127E DENHAM RWY 30 513416N 0002641W - 513347N 0002706W - 513409N 0002810W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513518N 0003047W to 513437N 0002746W - 513416N 0002641W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU128A LONDON HEATHROW A circle, 2.5 NM radius, centred at 512839N 0002741W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU128B LONDON HEATHROW RWY 09L 512814N 0003325W - 512902N 0003325W - 512903N 0003138W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 512839N 0002741W to 512814N 0003137W - 512814N 0003325W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU128C LONDON HEATHROW RWY 27R 512905N 0002141W - 512816N 0002141W - 512816N 0002344W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 512839N 0002741W to 512904N 0002344W - 512905N 0002141W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU128D LONDON HEATHROW RWY 09R 512728N 0003315W - 512817N 0003316W - 512817N 0003138W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 512839N 0002741W to 512729N 0003112W - 512728N 0003315W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU128E LONDON HEATHROW RWY 27L 512819N 0002144W - 512730N 0002144W - 512730N 0002408W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 512839N 0002741W to 512819N 0002343W - 512819N 0002144W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU129A NORTHOLT A circle, 2 NM radius, centred at 513310N 0002511W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU129B NORTHOLT RWY 07 513150N 0002942W - 513221N 0003000W - 513244N 0002819W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513310N 0002511W to 513214N 0002801W - 513150N 0002942W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU129C NORTHOLT RWY 25 513430N 0002035W - 513400N 0002017W - 513335N 0002203W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513310N 0002511W to 513406N 0002221W - 513430N 0002035W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU130A LONDON LUTON A circle, 2.5 NM radius, centred at 515229N 0002206W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU130B LONDON LUTON RWY 07 515120N 0002706W - 515151N 0002720W - 515204N 0002605W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 515229N 0002206W to 515133N 0002551W - 515120N 0002706W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU130C LONDON LUTON RWY 25 515336N 0001711W - 515305N 0001657W - 515253N 0001808W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 515229N 0002206W to 515324N 0001822W - 515336N 0001711W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU131A ELSTREE A circle, 2 NM radius, centred at 513921N 0001933W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU131B ELSTREE RWY 08 513834N 0002401W - 513906N 0002410W - 513916N 0002246W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513921N 0001933W to 513844N 0002236W - 513834N 0002401W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU131C ELSTREE RWY 26 514008N 0001505W - 513936N 0001456W - 513926N 0001621W thence anti-clockwise by the arc of a circle radius 2 NM centred on 513921N 0001933W to 513958N 0001630W - 514008N 0001505W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU132A LONDON GATWICK A circle, 2.5 NM radius, centred at 510853N 0001125W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU132B LONDON GATWICK RWY 08L 510801N 0001635W - 510832N 0001646W - 510844N 0001523W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510853N 0001125W to 510812N 0001514W - 510801N 0001635W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU132C LONDON GATWICK RWY 26R 510954N 0000652W - 510922N 0000641W - 510916N 0000730W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510853N 0001125W to 510947N 0000743W - 510954N 0000652W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU132D LONDON GATWICK RWY 08R 510755N 0001630W - 510826N 0001641W - 510837N 0001522W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510853N 0001125W to 510806N 0001511W - 510755N 0001630W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU132E LONDON GATWICK RWY 26L 510953N 0000613W - 510921N 0000602W - 510909N 0000728W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 510853N 0001125W to 510941N 0000739W - 510953N 0000613W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133A REDHILL 511134N 0001048W thence clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511230N 0000511W - 511134N 0001048W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133B REDHILL RWY 07L 511150N 0001237W - 511221N 0001251W - 511235N 0001129W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511204N 0001116W - 511150N 0001237W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133C REDHILL RWY 25R 511354N 0000400W - 511323N 0000347W - 511308N 0000511W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511339N 0000526W - 511354N 0000400W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133D REDHILL RWY 07R 511146N 0001243W - 511218N 0001257W - 511233N 0001128W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511202N 0001115W - 511146N 0001243W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133E REDHILL RWY 25L 511351N 0000355W - 511320N 0000342W - 511305N 0000510W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511336N 0000524W - 511351N 0000355W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133F REDHILL RWY 18 511545N 0000848W - 511545N 0000756W - 511448N 0000758W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511447N 0000849W - 511545N 0000848W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133G REDHILL RWY 36 510959N 0000806W - 510959N 0000857W - 511153N 0000854W - 511202N 0000802W - 510959N 0000806W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133H REDHILL RWY H07 511147N 0001226W - 511218N 0001240W - 511230N 0001128W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511159N 0001113W - 511147N 0001226W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133I REDHILL RWY H25 511345N 0000415W - 511314N 0000401W - 511302N 0000510W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511333N 0000522W - 511345N 0000415W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU133J REDHILL RWY H18 511528N 0000927W - 511530N 0000836W - 511449N 0000832W thence anti-clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511442N 0000923W - 511528N 0000927W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU133K REDHILL RWY H36 511002N 0000802W - 511000N 0000854W - 511151N 0000905W - 511200N 0000814W - 511002N 0000802W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU134A BIGGIN HILL A circle, 2.5 NM radius, centred at 511951N 0000157E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU134B BIGGIN HILL RWY 03 511700N 0000013E - 511714N 0000033W - 511744N 0000010W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 511951N 0000157E to 511730N 0000037E - 511700N 0000013E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU134C BIGGIN HILL RWY 21 512251N 0000346E - 512236N 0000432E - 512158N 0000403E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 511951N 0000157E to 512212N 0000316E - 512251N 0000346E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU135A LONDON CITY A circle, 2 NM radius, centred at 513019N 0000319E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU135B LONDON CITY RWY 09 513012N 0000136W - 513044N 0000133W - 513041N 0000010E thence anti-clockwise by the arc of a circle radius 2 NM centred on 513019N 0000319E to 513009N 0000007E - 513012N 0000136W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU135C LONDON CITY RWY 27 513026N 0000814E - 512953N 0000811E - 512957N 0000627E thence anti-clockwise by the arc of a circle radius 2 NM centred on 513019N 0000319E to 513029N 0000630E - 513026N 0000814E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU136A STAPLEFORD A circle, 2 NM radius, centred at 513909N 0000922E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU136B STAPLEFORD RWY 03L 513634N 0000654E - 513653N 0000612E - 513743N 0000708E thence anti-clockwise by the arc of a circle radius 2 NM centred on 513909N 0000922E to 513724N 0000750E - 513634N 0000654E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU136C STAPLEFORD RWY 21R 514140N 0001141E - 514122N 0001223E - 514037N 0001132E thence anti-clockwise by the arc of a circle radius 2 NM centred on 513909N 0000922E to 514056N 0001050E - 514140N 0001141E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU136D STAPLEFORD RWY 03R 513634N 0000656E - 513652N 0000613E - 513742N 0000710E thence anti-clockwise by the arc of a circle radius 2 NM centred on 513909N 0000922E to 513723N 0000752E - 513634N 0000656E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU136E STAPLEFORD RWY 21L 514140N 0001143E - 514121N 0001225E - 514036N 0001134E thence anti-clockwise by the arc of a circle radius 2 NM centred on 513909N 0000922E to 514055N 0001051E - 514140N 0001143E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU137A LONDON STANSTED A circle, 2.5 NM radius, centred at 515306N 0001406E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU137B LONDON STANSTED RWY 04 515028N 0001044E - 515050N 0001005E - 515128N 0001103E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 515306N 0001406E to 515106N 0001141E - 515028N 0001044E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU137C LONDON STANSTED RWY 22 515552N 0001739E - 515530N 0001817E - 515444N 0001709E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 515306N 0001406E to 515506N 0001630E - 515552N 0001739E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU138A ANDREWSFIELD A circle, 2 NM radius, centred at 515342N 0002657E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU138B ANDREWSFIELD RWY 09L 515311N 0002223E - 515343N 0002219E - 515348N 0002344E thence anti-clockwise by the arc of a circle radius 2 NM centred on 515342N 0002657E to 515316N 0002348E - 515311N 0002223E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU138C ANDREWSFIELD RWY 27R 515413N 0003137E - 515341N 0003142E - 515336N 0003010E thence anti-clockwise by the arc of a circle radius 2 NM centred on 515342N 0002657E to 515408N 0003006E - 515413N 0003137E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU138D ANDREWSFIELD RWY 09R 515310N 0002223E - 515342N 0002218E - 515347N 0002343E thence anti-clockwise by the arc of a circle radius 2 NM centred on 515342N 0002657E to 515315N 0002348E - 515310N 0002223E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU138E ANDREWSFIELD RWY 27L 515412N 0003137E - 515340N 0003142E - 515335N 0003010E thence anti-clockwise by the arc of a circle radius 2 NM centred on 515342N 0002657E to 515407N 0003006E - 515412N 0003137E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU139A ROCHESTER A circle, 2 NM radius, centred at 512107N 0003010E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU139B ROCHESTER RWY 02L 511821N 0002901E - 511833N 0002812E - 511920N 0002842E thence anti-clockwise by the arc of a circle radius 2 NM centred on 512107N 0003010E to 511909N 0002931E - 511821N 0002901E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU139C ROCHESTER RWY 20R 512359N 0003136E - 512347N 0003224E - 512250N 0003148E thence anti-clockwise by the arc of a circle radius 2 NM centred on 512107N 0003010E to 512302N 0003100E - 512359N 0003136E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU139D ROCHESTER RWY 02R 511819N 0002902E - 511831N 0002814E - 511920N 0002844E thence anti-clockwise by the arc of a circle radius 2 NM centred on 512107N 0003010E to 511909N 0002933E - 511819N 0002902E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU139E ROCHESTER RWY 20L 512354N 0003134E - 512342N 0003222E - 512249N 0003149E thence anti-clockwise by the arc of a circle radius 2 NM centred on 512107N 0003010E to 512302N 0003102E - 512354N 0003134E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU140A LASHENDEN/HEADCORN A circle, 2 NM radius, centred at 510923N 0003840E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU140B LASHENDEN/HEADCORN RWY 10 510953N 0003359E - 511024N 0003412E - 511009N 0003544E thence anti-clockwise by the arc of a circle radius 2 NM centred on 510923N 0003840E to 510937N 0003531E - 510953N 0003359E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU140C LASHENDEN/HEADCORN RWY 28 510853N 0004319E - 510821N 0004306E - 510836N 0004136E thence anti-clockwise by the arc of a circle radius 2 NM centred on 510923N 0003840E to 510908N 0004149E - 510853N 0004319E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU141A EARLS COLNE A circle, 2 NM radius, centred at 515452N 0004057E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU141B EARLS COLNE RWY 06 515309N 0003708E - 515337N 0003642E - 515405N 0003759E thence anti-clockwise by the arc of a circle radius 2 NM centred on 515452N 0004057E to 515337N 0003826E - 515309N 0003708E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU141C EARLS COLNE RWY 24 515631N 0004450E - 515603N 0004516E - 515535N 0004358E thence anti-clockwise by the arc of a circle radius 2 NM centred on 515452N 0004057E to 515604N 0004332E - 515631N 0004450E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU142A SOUTHEND A circle, 2.5 NM radius, centred at 513413N 0004136E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU142B SOUTHEND RWY 05 513209N 0003745E - 513236N 0003714E - 513259N 0003807E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 513413N 0004136E to 513233N 0003837E - 513209N 0003745E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU142C SOUTHEND RWY 23 513615N 0004523E - 513549N 0004553E - 513527N 0004505E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 513413N 0004136E to 513554N 0004434E - 513615N 0004523E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU143A LONDON HELIPORT A circle, 2 NM radius, centred at 512812N 0001046W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the heliport operator. For contact details see AIP, Part 3 - Heliports, Section AD 3.2
EGRU145A KENLEY A circle, 2 NM radius, centred at 511821N 0000536W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU146A UPAVON A circle, 2 NM radius, centred at 511710N 0014652W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU147A WESTON ON THE GREEN A circle, 2 NM radius, centred at 515245N 0011304W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU148A LITTLE RISSINGTON A circle, 2 NM radius, centred at 515202N 0014139W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU148B LITTLE RISSINGTON RWY 04 514928N 0014421W - 514948N 0014502W - 515038N 0014358W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515202N 0014139W to 515018N 0014317W - 514928N 0014421W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU148C LITTLE RISSINGTON RWY 22 515435N 0013857W - 515415N 0013816W - 515325N 0013920W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515202N 0014139W to 515345N 0014001W - 515435N 0013857W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU148D LITTLE RISSINGTON RWY 09 515133N 0014621W - 515205N 0014626W - 515210N 0014452W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515202N 0014139W to 515138N 0014449W - 515133N 0014621W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU148E LITTLE RISSINGTON RWY 27 515236N 0013649W - 515204N 0013645W - 515158N 0013826W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515202N 0014139W to 515230N 0013831W - 515236N 0013649W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU148F LITTLE RISSINGTON RWY 13 515336N 0014536W - 515400N 0014501W - 515326N 0014357W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515202N 0014139W to 515300N 0014429W - 515336N 0014536W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU148G LITTLE RISSINGTON RWY 31 515008N 0013751W - 514943N 0013825W - 515025N 0013943W thence anti-clockwise by the arc of a circle radius 2 NM centred on 515202N 0014139W to 515048N 0013906W - 515008N 0013751W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU149 HMP ASHFIELD 512911N 0022623W - 512908N 0022602W - 512901N 0022556W - 512852N 0022556W - 512843N 0022602W - 512836N 0022619W - 512841N 0022644W - 512854N 0022652W - 512907N 0022641W - 512911N 0022623W	Upper limit: 900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 405 FT AMSL
EGRU150 HMP AYLESBURY 514938N 0004807W - 514935N 0004742W - 514916N 0004724W - 514904N 0004732W - 514857N 0004807W - 514914N 0004830W - 514926N 0004829W - 514938N 0004807W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 311 FT AMSL
EGRU151 HMP BELMARSH/THAMESIDE/ ISIS 513012N 0000557E - 512942N 0000624E - 512930N 0000550E - 512918N 0000540E - 512927N 0000450E - 512952N 0000501E - 513012N 0000557E	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by Non-Standard Flight Applications (NSF NATS) and HMPPS. NSF: Online Application: https://nsf.nats.aero/drones-and-model-aircraft/ HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 16 FT AMSL
EGRU152 HMP BRISTOL 512909N 0023540W - 512905N 0023520W - 512857N 0023505W - 512849N 0023503W - 512837N 0023512W - 512834N 0023540W - 512848N 0023602W - 512901N 0023600W - 512909N 0023540W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 206 FT AMSL
EGRU153 HMP BRIXTON 512722N 0000738W - 512718N 0000710W - 512709N 0000703W - 512656N 0000707W - 512650N 0000721W - 512653N 0000755W - 512714N 0000758W - 512722N 0000738W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by London Heliport (FRZ - EGRU143A) and HMPPS. London Heliport 020-7228 0181 or email: Info@londonheliport.co.uk HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 125 FT AMSL
EGRU154 HMP BRONZEFIELD 512610N 0002935W - 512618N 0002841W - 512554N 0002832W - 512544N 0002845W - 512541N 0002907W - 512549N 0002925W - 512610N 0002935W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by Non-Standard Flight Applications (NSF NATS) and HMPPS. NSF: Online Application: https://nsf.nats.aero/drones-and-model-aircraft/ HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 53 FT AMSL
EGRU155 HMP BULLINGDON 515113N 0010603W - 515114N 0010521W - 515103N 0010505W - 515049N 0010507W - 515037N 0010526W - 515038N 0010553W - 515050N 0010610W - 515113N 0010603W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 267 FT AMSL
EGRU156 HMP CARDIFF 512910N 0031002W - 512854N 0030934W - 512834N 0030952W - 512831N 0031011W - 512844N 0031031W - 512902N 0031033W - 512910N 0031002W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 39 FT AMSL
EGRU157 HMP CHELMSFORD 514431N 0002858E - 514416N 0002945E - 514359N 0002948E - 514351N 0002936E - 514352N 0002909E - 514404N 0002833E - 514431N 0002858E	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 135 FT AMSL
EGRU158 HMP COLDINGLEY 511938N 0003849W - 511937N 0003818W - 511917N 0003756W - 511858N 0003841W - 511917N 0003910W - 511938N 0003849W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 174 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU159 HMP DOWNVIEW/HIGH DOWN 512036N 0001131W - 512039N 0001059W - 512019N 0001050W - 511952N 0001055W - 511948N 0001137W - 511959N 0001154W - 512027N 0001150W - 512036N 0001131W	Upper limit: 900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 457 FT AMSL
EGRU160 HMP EAST SUTTON PARK 511311N 0003654E - 511313N 0003731E - 511249N 0003733E - 511235N 0003642E - 511301N 0003632E - 511311N 0003654E	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 376 FT AMSL
EGRU161 HMP EASTWOOD PARK 513819N 0022840W - 513823N 0022800W - 513822N 0022740W - 513803N 0022723W - 513751N 0022754W - 513747N 0022829W - 513819N 0022840W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 117 FT AMSL
EGRU162 HMP ERLESTOKE 511726N 0020243W - 511728N 0020206W - 511703N 0020205W - 511643N 0020217W - 511650N 0020308W - 511712N 0020324W - 511726N 0020243W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 360 FT AMSL
EGRU163 HMP FELTHAM 512644N 0002615W - 512640N 0002532W - 512559N 0002547W - 512607N 0002647W - 512639N 0002641W - 512644N 0002615W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by Non-Standard Flight Applications (NSF NATS) and HMPPS. NSF: Online Application: https://nsf.nats.aero/drones-and-model-aircraft/ HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 62 FT AMSL
EGRU164 HMP GRENDON 515354N 0010045W - 515352N 0010002W - 515339N 0005949W - 515321N 0005949W - 515310N 0010013W - 515317N 0010046W - 515332N 0010050W - 515354N 0010045W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 296 FT AMSL
EGRU165 HMP HUNTERCOMBE 513536N 0010124W - 513528N 0010033W - 513455N 0010046W - 513504N 0010142W - 513536N 0010124W	Upper limit: 1100 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 691 FT AMSL
EGRU166 HMP MAIDSTONE 511709N 0003128E - 511642N 0003202E - 511622N 0003124E - 511648N 0003046E - 511709N 0003128E	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 123 FT AMSL
EGRU167 HMP PARC 513207N 0033404W - 513211N 0033313W - 513138N 0033308W - 513133N 0033411W - 513158N 0033416W - 513207N 0033404W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 343 FT AMSL
EGRU168 HMP PENTONVILLE 513256N 0000726W - 513258N 0000659W - 513257N 0000641W - 513231N 0000624W - 513222N 0000721W - 513256N 0000726W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 141 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU169 HMP ROCHESTER 512226N 0002853E - 512227N 0002947E - 512201N 0003010E - 512147N 0003000E - 512136N 0002947E - 512137N 0002930E - 512226N 0002853E	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by Rochester Tower (FRZ - EGRU139A) and HMPPS. Contact: Rochester Tower 01634-869969 (Option 3 (Air Traffic Control)) Tower@rochesterairport.co.uk HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 326 FT AMSL
EGRU170 HMP SEND 511647N 0002943W - 511649N 0002911W - 511610N 0002857W - 511605N 0002942W - 511620N 0002953W - 511634N 0002958W - 511647N 0002943W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 182 FT AMSL
EGRU171 HMP SWALESIDE/ELMLEY 512358N 0005051E - 512345N 0005148E - 512306N 0005126E - 512259N 0005101E - 512309N 0005025E - 512358N 0005051E	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 73 FT AMSL
EGRU172 HMP SWANSEA 513706N 0035719W - 513711N 0035655W - 513707N 0035636W - 513647N 0035625W - 513637N 0035706W - 513647N 0035724W - 513706N 0035719W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 27 FT AMSL
EGRU173 HMP THE MOUNT 514353N 0003231W - 514355N 0003207W - 514340N 0003138W - 514313N 0003213W - 514315N 0003255W - 514332N 0003253W - 514343N 0003245W - 514353N 0003231W	Upper limit: 1000 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 539 FT AMSL
EGRU174 HMP USK 514218N 0025347W - 514153N 0025327W - 514139N 0025411W - 514205N 0025433W - 514218N 0025347W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 61 FT AMSL
EGRU175 HMP WANDSWORTH 512722N 0001030W - 512653N 0001006W - 512636N 0001042W - 512659N 0001111W - 512714N 0001056W - 512722N 0001030W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by London Heliport (FRZ - EGRU143A) and HMPPS. London Heliport 020-7228 0181 or email: Info@londonheliport.co.uk HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 112 FT AMSL
EGRU176 HMP WINCHESTER 510400N 0012008W - 510409N 0011927W - 510355N 0011917W - 510334N 0011913W - 510330N 0012001W - 510400N 0012008W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 333 FT AMSL
EGRU177 HMP WORMWOOD SCRUBS 513116N 0001456W - 513119N 0001401W - 513047N 0001352W - 513044N 0001445W - 513057N 0001454W - 513116N 0001456W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 51 FT AMSL
EGRU178 PORTLAND FRZ 503400N 0023006W thence clockwise by the arc of a circle radius 2 NM centred on 503404N 0022658W to 503333N 0023000W - 503400N 0023000W following the line of latitude to - 503400N 0023006W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or heliport operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 3.2.

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU181 ALMONDSBURY A circle, 0.5 NM radius, centred at 513308N 0023335W	Upper limit: 1300 FT ALT Lower limit: SFC	Unmanned Aircraft Restriction. H24. National Police Air Service activity. Permissions to fly UAS within the Restricted Area are to be obtained from NPAS Operations Centre via email: ops.centre@npas.police.uk or telephone: 01924-962814. Site elevation: 307 FT AMSL
EGRU182 LIPPITT'S HILL A circle, 0.5 NM radius, centred at 513916N 0000103E	Upper limit: 1350 FT ALT Lower limit: SFC	Unmanned Aircraft Restriction. H24. National Police Air Service activity. Permissions to fly UAS within the Restricted Area are to be obtained from NPAS Operations Centre via email: ops.centre@npas.police.uk or telephone: 01924-962814. Site elevation: 369 FT AMSL
EGRU183 GATCOMBE PARK 514214N 0021055W - 514236N 0020937W - 514143N 0020821W - 514104N 0020905W - 514040N 0021035W - 514131N 0021151W - 514214N 0021055W	Upper limit: 1700 FT ALT Lower limit: SFC	Flight Permitted by any unmanned aircraft operated by or on behalf of: a Police Air Support Unit; an Emergency Medical Service; a member of the Royal Family; flying in accordance with the permission of the Gloucestershire Constabulary Royalty Household Protection Group. SI 907/2025. Contact: Gloucestershire Constabulary Royalty Household Protection Group, RHPG.EZ@gloucestershire.police.uk.
EGRU201A WEST WALES/ABERPORTH A circle, 2 NM radius, centred at 520653N 0043334W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flights not permitted unless permission has been granted by the aerodrome operator. Information relating to flight within the FRZ and an on-line application form is available on the aerodrome's website http://www.flyuav.co.uk.
EGRU201B WEST WALES/ABERPORTH RWY 07 520543N 0043806W - 520614N 0043822W - 520633N 0043646W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520653N 0043334W to 520602N 0043630W - 520543N 0043806W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flights not permitted unless permission has been granted by the aerodrome operator. Information relating to flight within the FRZ and an on-line application form is available on the aerodrome's website http://www.flyuav.co.uk.
EGRU201C WEST WALES/ABERPORTH RWY 25 520803N 0042902W - 520732N 0042846W - 520713N 0043022W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520653N 0043334W to 520744N 0043038W - 520803N 0042902W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flights not permitted unless permission has been granted by the aerodrome operator. Information relating to flight within the FRZ and an on-line application form is available on the aerodrome's website http://www.flyuav.co.uk.
EGRU202A WELSHPOOL A circle, 2 NM radius, centred at 523743N 0030912W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU202B WELSHPOOL RWY 04 523510N 0031134W - 523529N 0031218W - 523615N 0031125W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523743N 0030912W to 523556N 0031041W - 523510N 0031134W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU202C WELSHPOOL RWY 22 524016N 0030650W - 523957N 0030606W - 523911N 0030658W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523743N 0030912W to 523930N 0030742W - 524016N 0030650W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU203A SHOBDON A circle, 2 NM radius, centred at 521430N 0025252W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU203B SHOBDON RWY 08 521352N 0025732W - 521424N 0025739W - 521431N 0025607W thence anti-clockwise by the arc of a circle radius 2 NM centred on 521430N 0025252W to 521359N 0025600W - 521352N 0025732W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU203C SHOBDON RWY 26 521508N 0024813W - 521436N 0024806W - 521429N 0024937W thence anti-clockwise by the arc of a circle radius 2 NM centred on 521430N 0025252W to 521501N 0024943W - 521508N 0024813W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU204A SLEAP A circle, 2 NM radius, centred at 525002N 0024618W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU204B SLEAP RWY 05 524748N 0024923W - 524811N 0025001W - 524850N 0024856W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525002N 0024618W to 524827N 0024818W - 524748N 0024923W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU204C SLEAP RWY 23 525217N 0024311W - 525154N 0024234W - 525114N 0024340W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525002N 0024618W to 525137N 0024418W - 525217N 0024311W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU204D SLEAP RWY 18 525253N 0024646W - 525253N 0024553W - 525201N 0024551W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525002N 0024618W to 525201N 0024644W - 525253N 0024646W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU204E SLEAP RWY 36 524705N 0024539W - 524704N 0024633W - 524803N 0024635W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525002N 0024618W to 524804N 0024542W - 524705N 0024539W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU205A SHAWBURY A circle, 2 NM radius, centred at 524737N 0024005W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU205B SHAWBURY RWY 05 524527N 0024325W - 524550N 0024403W - 524633N 0024252W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524737N 0024005W to 524609N 0024218W - 524527N 0024325W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU205C SHAWBURY RWY 23 525011N 0023655W - 524949N 0023617W - 524858N 0023740W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524737N 0024005W to 524919N 0023821W - 525011N 0023655W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU205D SHAWBURY RWY 18 525048N 0024032W - 525048N 0023939W - 524936N 0023938W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524737N 0024005W to 524936N 0024032W - 525048N 0024032W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU205E SHAWBURY RWY 36 524426N 0023937W - 524426N 0024031W - 524538N 0024031W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524737N 0024005W to 524538N 0023938W - 524426N 0023937W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU206A TERNHILL A circle, 2 NM radius, centred at 525223N 0023156W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU206B TERNHILL RWY 04 525004N 0023450W - 525026N 0023529W - 525107N 0023428W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525223N 0023156W to 525045N 0023348W - 525004N 0023450W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU206C TERNHILL RWY 22 525443N 0022902W - 525421N 0022822W - 525340N 0022924W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525223N 0023156W to 525402N 0023003W - 525443N 0022902W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU206D TERNHILL RWY 10 525233N 0023651W - 525305N 0023643W - 525256N 0023506W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525223N 0023156W to 525224N 0023514W - 525233N 0023651W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU206E TERNHILL RWY 28 525212N 0022717W - 525140N 0022725W - 525148N 0022847W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525223N 0023156W to 525219N 0022838W - 525212N 0022717W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU206F TERNHILL RWY 17 525513N 0023310W - 525520N 0023217W - 525423N 0023159W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525223N 0023156W to 525418N 0023252W - 525513N 0023310W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU206G TERNHILL RWY 35 524937N 0023023W - 524931N 0023116W - 525024N 0023134W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525223N 0023156W to 525032N 0023042W - 524937N 0023023W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU207A COSFORD A circle, 2 NM radius, centred at 523826N 0021819W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU207B COSFORD RWY 06 523637N 0022215W - 523704N 0022243W - 523737N 0022118W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523826N 0021819W to 523709N 0022050W - 523637N 0022215W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU207C COSFORD RWY 24 524015N 0021423W - 523947N 0021355W - 523915N 0021519W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523826N 0021819W to 523943N 0021547W - 524015N 0021423W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU207D COSFORD RWY 06L 523639N 0022217W - 523707N 0022245W - 523739N 0022120W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523826N 0021819W to 523711N 0022053W - 523639N 0022217W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU207E COSFORD RWY 24R 524016N 0021428W - 523948N 0021359W - 523917N 0021521W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523826N 0021819W to 523944N 0021550W - 524016N 0021428W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU208A WOLVERHAMPTON/ HALFPENNY GREEN A circle, 2 NM radius, centred at 523103N 0021534W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU208B WOLVERHAMPTON/ HALFPENNY GREEN RWY 04 522840N 0021816W - 522859N 0021859W - 522945N 0021803W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523103N 0021534W to 522923N 0021724W - 522840N 0021816W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU208C WOLVERHAMPTON/ HALFPENNY GREEN RWY 22 523332N 0021326W - 523313N 0021243W - 523235N 0021329W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523103N 0021534W to 523252N 0021414W - 523332N 0021326W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU208D WOLVERHAMPTON/ HALFPENNY GREEN RWY 16 523335N 0021755W - 523348N 0021707W - 523258N 0021630W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523103N 0021534W to 523244N 0021718W - 523335N 0021755W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU208E WOLVERHAMPTON/ HALFPENNY GREEN RWY 34 522830N 0021313W - 522816N 0021401W - 522908N 0021439W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523103N 0021534W to 522921N 0021351W - 522830N 0021313W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU208F WOLVERHAMPTON/ HALFPENNY GREEN RWY 10 523105N 0022029W - 523137N 0022022W - 523130N 0021846W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523103N 0021534W to 523058N 0021851W - 523105N 0022029W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU208G WOLVERHAMPTON/ HALFPENNY GREEN RWY 28 523056N 0021055W - 523024N 0021101W - 523030N 0021225W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523103N 0021534W to 523102N 0021218W - 523056N 0021055W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU209A TATENHILL A circle, 2 NM radius, centred at 524851N 0014553W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU209B TATENHILL RWY 08 524744N 0015032W - 524815N 0015047W - 524833N 0014908W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524851N 0014553W to 524802N 0014853W - 524744N 0015032W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU209C TATENHILL RWY 26 524957N 0014114W - 524926N 0014059W - 524908N 0014237W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524851N 0014553W to 524939N 0014252W - 524957N 0014114W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU210A BIRMINGHAM A circle, 2.5 NM radius, centred at 522722N 0014502W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU210B BIRMINGHAM RWY 15 522953N 0014822W - 523011N 0014738W - 522934N 0014657W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522722N 0014502W to 522916N 0014741W - 522953N 0014822W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU210C BIRMINGHAM RWY 33 522442N 0014132W - 522424N 0014216W - 522510N 0014307W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522722N 0014502W to 522528N 0014223W - 522442N 0014132W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU211A DERBY A circle, 2 NM radius, centred at 525135N 0013703W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU211B DERBY RWY 05 524927N 0014006W - 524951N 0014042W - 525024N 0013942W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525135N 0013703W to 525001N 0013905W - 524927N 0014006W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU211C DERBY RWY 23 525336N 0013355W - 525312N 0013319W - 525240N 0013417W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525135N 0013703W to 525305N 0013452W - 525336N 0013355W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU211D DERBY RWY 10 525144N 0014134W - 525216N 0014126W - 525210N 0014012W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525135N 0013703W to 525138N 0014021W - 525144N 0014134W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU211E DERBY RWY 28 525131N 0013225W - 525059N 0013233W - 525106N 0013351W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525135N 0013703W to 525138N 0013345W - 525131N 0013225W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU211F DERBY RWY 17 525422N 0013812W - 525427N 0013720W - 525335N 0013706W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525135N 0013703W to 525330N 0013759W - 525422N 0013812W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU211G DERBY RWY 35 524849N 0013554W - 524844N 0013647W - 524935N 0013700W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525135N 0013703W to 524940N 0013607W - 524849N 0013554W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU212A WELLESBOURNE MOUNTFORD A circle, 2 NM radius, centred at 521132N 0013652W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU212B WELLESBOURNE MOUNTFORD RWY 05 520909N 0013952W - 520932N 0014029W - 521014N 0013920W thence anti-clockwise by the arc of a circle radius 2 NM centred on 521132N 0013652W to 520952N 0013840W - 520909N 0013952W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU212C WELLESBOURNE MOUNTFORD RWY 23 521332N 0013352W - 521309N 0013315W - 521237N 0013408W thence anti-clockwise by the arc of a circle radius 2 NM centred on 521132N 0013652W to 521302N 0013443W - 521332N 0013352W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU212D WELLESBOURNE MOUNTFORD RWY 18 521427N 0013738W - 521429N 0013645W - 521332N 0013639W thence anti-clockwise by the arc of a circle radius 2 NM centred on 521132N 0013652W to 521329N 0013731W - 521427N 0013738W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU212E WELLESBOURNE MOUNTFORD RWY 36 520837N 0013606W - 520835N 0013659W - 520932N 0013705W thence anti-clockwise by the arc of a circle radius 2 NM centred on 521132N 0013652W to 520935N 0013613W - 520837N 0013606W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU213A COVENTRY A circle, 2.5 NM radius, centred at 522211N 0012847W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU213B COVENTRY RWY 05 521952N 0013215W - 522016N 0013250W - 522042N 0013204W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522211N 0012847W to 522019N 0013128W - 521952N 0013215W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU213C COVENTRY RWY 23 522430N 0012519W - 522407N 0012443W - 522340N 0012530W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522211N 0012847W to 522404N 0012606W - 522430N 0012519W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU214A EAST MIDLANDS A circle, 2.5 NM radius, centred at 524952N 0011940W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU214B EAST MIDLANDS RWY 09 524929N 0012515W - 525002N 0012517W - 525003N 0012347W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524952N 0011940W to 524931N 0012345W - 524929N 0012515W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU214C EAST MIDLANDS RWY 27 525014N 0011405W - 524941N 0011403W - 524940N 0011534W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524952N 0011940W to 525012N 0011535W - 525014N 0011405W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU215A NOTTINGHAM A circle, 2 NM radius, centred at 525515N 0010448W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU215B NOTTINGHAM RWY 03 525228N 0010627W - 525244N 0010715W - 525333N 0010632W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525515N 0010448W to 525320N 0010542W - 525228N 0010627W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU215C NOTTINGHAM RWY 21 525754N 0010243W - 525738N 0010156W - 525647N 0010241W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525515N 0010448W to 525704N 0010327W - 525754N 0010243W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU215D NOTTINGHAM RWY 09 525452N 0010933W - 525524N 0010935W - 525526N 0010805W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525515N 0010448W to 525454N 0010803W - 525452N 0010933W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU215E NOTTINGHAM RWY 27 525537N 0005958W - 525505N 0005956W - 525503N 0010131W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525515N 0010448W to 525535N 0010133W - 525537N 0005958W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216A LEICESTER A circle, 2 NM radius, centred at 523628N 0010155W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216B LEICESTER RWY 04 523354N 0010406W - 523413N 0010448W - 523454N 0010358W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523438N 0010312W - 523354N 0010406W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216C LEICESTER RWY 22 523845N 0005914W - 523826N 0005831W - 523744N 0005923W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523806N 0010002W - 523845N 0005914W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216D LEICESTER RWY 06 523417N 0010449W - 523441N 0010525W - 523513N 0010428W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523450N 0010349W - 523417N 0010449W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216E LEICESTER RWY 24 523827N 0005840W - 523803N 0005804W - 523729N 0005905W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523754N 0005938W - 523827N 0005840W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216F LEICESTER RWY 10 523631N 0010647W - 523703N 0010641W - 523657N 0010506W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523625N 0010512W - 523631N 0010647W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU216G LEICESTER RWY 28 523626N 0005704W - 523554N 0005709W - 523600N 0005844W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523632N 0005838W - 523626N 0005704W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216H LEICESTER RWY 15 523841N 0010436W - 523857N 0010350W - 523818N 0010314W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523801N 0010359W - 523841N 0010436W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216I LEICESTER RWY 33 523401N 0005915W - 523345N 0010001W - 523435N 0010048W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523450N 0010001W - 523401N 0005915W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216J LEICESTER RWY 16 523837N 0010440W - 523854N 0010355W - 523817N 0010318W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523759N 0010403W - 523837N 0010440W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU216K LEICESTER RWY 34 523405N 0005906W - 523348N 0005952W - 523437N 0010040W thence anti-clockwise by the arc of a circle radius 2 NM centred on 523628N 0010155W to 523453N 0005954W - 523405N 0005906W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU218A CRANFIELD A circle, 2 NM radius, centred at 520420N 0003700W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU218B CRANFIELD RWY 03 520134N 0003915W - 520151N 0004000W - 520247N 0003903W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520420N 0003700W to 520230N 0003819W - 520134N 0003915W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU218C CRANFIELD RWY 21 520710N 0003439W - 520653N 0003355W - 520552N 0003456W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520420N 0003700W to 520609N 0003541W - 520710N 0003439W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU219A BARKSTON HEATH A circle, 2 NM radius, centred at 525747N 0003337W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU219B BARKSTON HEATH RWY 06 525553N 0003743W - 525620N 0003812W - 525656N 0003637W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525747N 0003337W to 525629N 0003608W - 525553N 0003743W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU219C BARKSTON HEATH RWY 24 525943N 0002924W - 525916N 0002856W - 525837N 0003037W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525747N 0003337W to 525904N 0003106W - 525943N 0002924W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU219D BARKSTON HEATH RWY 10 525756N 0003847W - 525827N 0003836W - 525813N 0003651W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525747N 0003337W to 525741N 0003655W - 525756N 0003847W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU219E BARKSTON HEATH RWY 28 525709N 0002854W - 525638N 0002906W - 525651N 0003042W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525747N 0003337W to 525721N 0003023W - 525709N 0002854W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU219F BARKSTON HEATH RWY 18 530037N 0003400W - 530038N 0003306W - 525945N 0003303W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525747N 0003337W to 525946N 0003356W - 530037N 0003400W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU219G BARKSTON HEATH RWY 36 525449N 0003243W - 525448N 0003337W - 525547N 0003341W thence anti-clockwise by the arc of a circle radius 2 NM centred on 525747N 0003337W to 525551N 0003247W - 525449N 0003243W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU220A WITTERING A circle, 2.5 NM radius, centred at 523647N 0002833W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU220B WITTERING RWY 07 523532N 0003349W - 523603N 0003404W - 523619N 0003235W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 523647N 0002833W to 523548N 0003220W - 523532N 0003349W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU220C WITTERING RWY 25 523802N 0002317W - 523731N 0002302W - 523715N 0002431W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 523647N 0002833W to 523746N 0002447W - 523802N 0002317W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU222A OLD WARDEN A circle, 2 NM radius, centred at 520512N 0001907W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU222B OLD WARDEN RWY 03 520232N 0002041W - 520245N 0002128W - 520332N 0002053W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520512N 0001907W to 520318N 0002006W - 520232N 0002041W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU222C OLD WARDEN RWY 21 520753N 0001732W - 520739N 0001645W - 520652N 0001721W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520512N 0001907W to 520706N 0001808W - 520753N 0001732W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU222D OLD WARDEN RWY 03X 520218N 0002051W - 520231N 0002139W - 520332N 0002053W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520512N 0001907W to 520318N 0002005W - 520218N 0002051W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU222E OLD WARDEN RWY 21X 520753N 0001732W - 520739N 0001645W - 520652N 0001721W thence anti-clockwise by the arc of a circle radius 2 NM centred on 520512N 0001907W to 520706N 0001808W - 520753N 0001732W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU224A FENLAND A circle, 2 NM radius, centred at 524422N 0000148W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU224B FENLAND RWY 18 524711N 0000210W - 524710N 0000116W - 524620N 0000118W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524422N 0000148W to 524621N 0000211W - 524711N 0000210W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU224C FENLAND RWY 36 524130N 0000125W - 524131N 0000219W - 524224N 0000217W thence anti-clockwise by the arc of a circle radius 2 NM centred on 524422N 0000148W to 524223N 0000124W - 524130N 0000125W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU225A DUXFORD A circle, 2 NM radius, centred at 520526N 0000753E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU225B DUXFORD RWY 06L 520342N 0000358E - 520409N 0000331E - 520441N 0000453E thence anti-clockwise by the arc of a circle radius 2 NM centred on 520526N 0000753E to 520413N 0000519E - 520342N 0000358E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU225C DUXFORD RWY 24R 520716N 0001135E - 520648N 0001203E - 520619N 0001047E thence anti-clockwise by the arc of a circle radius 2 NM centred on 520526N 0000753E to 520646N 0001018E - 520716N 0001135E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU225D DUXFORD RWY 06R 520334N 0000352E - 520401N 0000325E - 520437N 0000456E thence anti-clockwise by the arc of a circle radius 2 NM centred on 520526N 0000753E to 520409N 0000524E - 520334N 0000352E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU225E DUXFORD RWY 24L 520716N 0001150E - 520648N 0001218E - 520615N 0001051E thence anti-clockwise by the arc of a circle radius 2 NM centred on 520526N 0000753E to 520642N 0001023E - 520716N 0001150E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU226A CAMBRIDGE A circle, 2.5 NM radius, centred at 521218N 0001030E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU226B CAMBRIDGE RWY 05 521006N 0000655E - 521030N 0000621E - 521055N 0000708E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 521218N 0001030E to 521030N 0000742E - 521006N 0000655E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU226C CAMBRIDGE RWY 23 521432N 0001409E - 521407N 0001442E - 521341N 0001352E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 521218N 0001030E to 521406N 0001319E - 521432N 0001409E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU227A MILDENHALL A circle, 2.5 NM radius, centred at 522143N 0002911E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU227B MILDENHALL RWY 11 522215N 0002335E - 522246N 0002348E - 522233N 0002520E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522143N 0002911E to 522201N 0002508E - 522215N 0002335E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU227C MILDENHALL RWY 29 522111N 0003446E - 522040N 0003434E - 522053N 0003302E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522143N 0002911E to 522124N 0003314E - 522111N 0003446E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU228A MARHAM A circle, 2.5 NM radius, centred at 523854N 0003302E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU228B MARHAM RWY 01 523538N 0003307E - 523543N 0003215E - 523626N 0003225E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 523854N 0003302E to 523625N 0003319E - 523538N 0003307E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU228C MARHAM RWY 19 524200N 0003348E - 524156N 0003441E - 524114N 0003430E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 523854N 0003302E to 524122N 0003339E - 524200N 0003348E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU228D MARHAM RWY 05 523643N 0002837E - 523710N 0002807E - 523743N 0002925E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 523854N 0003302E to 523716N 0002956E - 523643N 0002837E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU228E MARHAM RWY 23 524104N 0003727E - 524038N 0003757E - 524005N 0003639E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 523854N 0003302E to 524032N 0003609E - 524104N 0003727E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU229A LAKENHEATH A circle, 2.5 NM radius, centred at 522434N 0003340E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU229B LAKENHEATH RWY 06 522224N 0002916E - 522251N 0002847E - 522323N 0003004E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522434N 0003340E to 522257N 0003034E - 522224N 0002916E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU229C LAKENHEATH RWY 24 522643N 0003803E - 522617N 0003833E - 522544N 0003716E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 522434N 0003340E to 522611N 0003646E - 522643N 0003803E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU230A WATTISHAM A circle, 2.5 NM radius, centred at 520737N 0005719E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU230B WATTISHAM RWY 05 520513N 0005340E - 520537N 0005305E - 520609N 0005402E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 520737N 0005719E to 520545N 0005438E - 520513N 0005340E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU230C WATTISHAM RWY 23 521004N 0010104E - 520940N 0010139E - 520905N 0010037E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 520737N 0005719E to 520929N 0010001E - 521004N 0010104E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU231A OLD BUCKENHAM A circle, 2 NM radius, centred at 522951N 0010307E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU231B OLD BUCKENHAM RWY 02 522715N 0010159E - 522726N 0010110E - 522806N 0010133E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522951N 0010307E to 522755N 0010223E - 522715N 0010159E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU231C OLD BUCKENHAM RWY 20 523242N 0010416E - 523231N 0010506E - 523138N 0010435E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522951N 0010307E to 523149N 0010345E - 523242N 0010416E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU231D OLD BUCKENHAM RWY 07 522822N 0005900E - 522851N 0005837E - 522915N 0010000E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522951N 0010307E to 522846N 0010023E - 522822N 0005900E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU231E OLD BUCKENHAM RWY 25 523120N 0010715E - 523051N 0010737E - 523027N 0010615E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522951N 0010307E to 523057N 0010552E - 523120N 0010715E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU231F OLD BUCKENHAM RWY 07L 522828N 0005916E - 522857N 0005853E - 522917N 0005959E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522951N 0010307E to 522847N 0010021E - 522828N 0005916E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU231G OLD BUCKENHAM RWY 25R 523122N 0010711E - 523053N 0010734E - 523030N 0010613E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522951N 0010307E to 523059N 0010550E - 523122N 0010711E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU232A NORWICH A circle, 2.5 NM radius, centred at 524033N 0011658E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU232B NORWICH RWY 09 524015N 0011143E - 524047N 0011142E - 524048N 0011252E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524033N 0011658E to 524015N 0011253E - 524015N 0011143E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU232C NORWICH RWY 27 524052N 0012212E - 524019N 0012213E - 524019N 0012103E thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 524033N 0011658E to 524051N 0012102E - 524052N 0012212E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU233A CHETWYND A circle, 2 NM radius, centred at 524842N 0022425W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU234A HONINGTON A circle, 2 NM radius, centred at 522036N 0004648E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU234B HONINGTON 521947N 0004055E - 522019N 0004047E - 522035N 0004332E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522036N 0004648E to 522003N 0004340E - 521947N 0004055E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU234C HONINGTON 522121N 0005151E - 522049N 0005159E - 522039N 0005004E thence anti-clockwise by the arc of a circle radius 2 NM centred on 522036N 0004648E to 522110N 0004955E - 522121N 0005151E	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU235 HMP BEDFORD 520840N 0002812W - 520836N 0002756W - 520822N 0002743W - 520804N 0002758W - 520807N 0002824W - 520815N 0002840W - 520835N 0002832W - 520840N 0002812W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 115 FT AMSL
EGRU236 HMP BIRMINGHAM 522954N 0015626W - 522952N 0015553W - 522944N 0015547W - 522925N 0015547W - 522918N 0015558W - 522917N 0015633W - 522944N 0015648W - 522954N 0015626W	Upper limit: 900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 483 FT AMSL
EGRU237 HMP BURE 524549N 0012029E - 524552N 0012052E - 524537N 0012123E - 524511N 0012049E - 524532N 0012007E - 524549N 0012029E	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 77 FT AMSL
EGRU238 HMP DOVEGATE 525234N 0014708W - 525234N 0014639W - 525215N 0014608W - 525150N 0014649W - 525212N 0014724W - 525226N 0014723W - 525234N 0014708W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 243 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU239 HMP DRAKE HALL 525309N 0021429W - 525249N 0021352W - 525224N 0021421W - 525223N 0021445W - 525241N 0021503W - 525255N 0021453W - 525309N 0021429W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 347 FT AMSL
EGRU240 HMP FEATHERSTONE/ BRINSFORD/OAKWOOD 523917N 0020718W - 523923N 0020623W - 523849N 0020555W - 523821N 0020609W - 523826N 0020658W - 523841N 0020716W - 523917N 0020718W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 393 FT AMSL
EGRU241 HMP FIVE WELLS 521728N 0004128W - 521727N 0004101W - 521710N 0004054W - 521646N 0004102W - 521645N 0004141W - 521658N 0004205W - 521714N 0004205W - 521728N 0004128W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 226 FT AMSL
EGRU242 HMP FOSSE WAY 523531N 0010859W - 523528N 0010812W - 523443N 0010815W - 523439N 0010853W - 523446N 0010924W - 523531N 0010859W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 298 FT AMSL
EGRU243 HMP FOSTON HALL 525313N 0014400W - 525314N 0014325W - 525303N 0014256W - 525237N 0014314W - 525237N 0014357W - 525313N 0014400W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 223 FT AMSL
EGRU244 HMP GARTREE 523004N 0005752W - 522959N 0005714W - 522931N 0005708W - 522921N 0005801W - 522945N 0005814W - 523004N 0005752W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 398 FT AMSL
EGRU245 HMP HEWELL 521951N 0015926W - 521935N 0015833W - 521911N 0015853W - 521911N 0015919W - 521917N 0015936W - 521930N 0015948W - 521951N 0015926W	Upper limit: 900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 443 FT AMSL
EGRU246 HMP HIGHPOINT 520847N 0003034E - 520845N 0003109E - 520801N 0003134E - 520749N 0003019E - 520822N 0003003E - 520847N 0003034E	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 390 FT AMSL
EGRU247 HMP LEICESTER 523755N 0010756W - 523744N 0010724W - 523728N 0010735W - 523721N 0010753W - 523730N 0010818W - 523749N 0010821W - 523755N 0010756W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 215 FT AMSL
EGRU248 HMP LITTLEHEY 521707N 0001916W - 521706N 0001824W - 521656N 0001811W - 521637N 0001817W - 521627N 0001846W - 521633N 0001920W - 521648N 0001924W - 521707N 0001916W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 173 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU249 HMP LONG LARTIN 520649N 0015133W - 520643N 0015034W - 520609N 0015055W - 520616N 0015158W - 520649N 0015133W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 160 FT AMSL
EGRU250 HMP NORWICH 523836N 0011852E - 523838N 0011915E - 523811N 0011938E - 523801N 0011938E - 523748N 0011855E - 523753N 0011845E - 523821N 0011823E - 523836N 0011852E	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by Norwich Airport (FRZ - EGRU232A) and HMPPS. Contact online: https://www.norwichairport.co.uk/airfield-pilot-information/ HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 160 FT AMSL
EGRU251 HMP NOTTINGHAM 525921N 0010935W - 525925N 0010857W - 525856N 0010848W - 525850N 0010906W - 525848N 0010942W - 525905N 0010948W - 525915N 0010946W - 525921N 0010935W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 255 FT AMSL
EGRU252 HMP PETERBOROUGH 523529N 0001553W - 523535N 0001524W - 523459N 0001501W - 523451N 0001534W - 523458N 0001559W - 523506N 0001602W - 523520N 0001602W - 523529N 0001553W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 62 FT AMSL
EGRU253 HMP RYE HILL/OLNEY 522004N 0011457W - 522005N 0011435W - 521956N 0011413W - 521948N 0011408W - 521937N 0011406W - 521925N 0011421W - 521919N 0011455W - 521920N 0011535W - 522000N 0011513W - 522004N 0011457W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 361 FT AMSL
EGRU254 HMP STAFFORD 524854N 0020734W - 524902N 0020643W - 524841N 0020635W - 524828N 0020639W - 524820N 0020720W - 524854N 0020734W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 267 FT AMSL
EGRU255 HMP STOCKEN 524512N 0003449W - 524513N 0003414W - 524450N 0003403W - 524434N 0003430W - 524429N 0003454W - 524440N 0003514W - 524449N 0003518W - 524504N 0003516W - 524512N 0003449W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 371 FT AMSL
EGRU256 HMP STOKE HEATH 525231N 0023138W - 525224N 0023119W - 525231N 0023107W - 525216N 0023045W - 525202N 0023043W - 525157N 0023052W - 525142N 0023059W - 525152N 0023157W - 525231N 0023138W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by RAF Shawbury (Ternhill FRZ - EGRU206A) and HMPPS. Contact: RAF Shawbury Station Ops 01939-250341 ext 7163 shy-ops@mod.gov.uk HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 269 FT AMSL
EGRU257 HMP SWINFEN HALL 523936N 0014816W - 523921N 0014741W - 523908N 0014741W - 523849N 0014810W - 523857N 0014834W - 523910N 0014858W - 523936N 0014816W	Upper limit: 800 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 309 FT AMSL
EGRU258 HMP WARREN HILL 520356N 0012736E - 520335N 0012812E - 520319N 0012809E - 520307N 0012727E - 520333N 0012659E - 520356N 0012736E	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 59 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU259 HMP WAYLAND 523337N 0005103E - 523337N 0005158E - 523256N 0005158E - 523256N 0005109E - 523313N 0005056E - 523337N 0005103E	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 189 FT AMSL
EGRU260 HMP WHATTON 525709N 0005519W - 525708N 0005442W - 525710N 0005428W - 525659N 0005406W - 525634N 0005402W - 525638N 0005523W - 525709N 0005519W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 87 FT AMSL
EGRU261 HMP WHITEMOOR 523445N 0000411E - 523456N 0000509E - 523421N 0000527E - 523410N 0000430E - 523445N 0000411E	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 17 FT AMSL
EGRU262 HMP WOODHILL 520113N 0004826W - 520038N 0004752W - 520021N 0004838W - 520056N 0004913W - 520113N 0004826W	Upper limit: 900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 401 FT AMSL
EGRU263 HUSBANDS BOSWORTH 522616N 0010220W - 522619N 0010135W - 522559N 0010133W - 522556N 0010200W - 522537N 0010221W - 522550N 0010250W - 522616N 0010220W	Upper limit: 1550 FT ALT Lower limit: SFC	Unmanned Aircraft Restriction. H24. National Police Air Service activity. Permissions to fly UAS within the Restricted Area are to be obtained from NPAS Operations Centre via email: ops.centre@npas.police.uk or telephone: 01924-962814. Site elevation: 528 FT AMSL
EGRU301A VALLEY A circle, 2.5 NM radius, centred at 531453N 0043207W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU301B VALLEY RWY 01 531154N 0043228W - 531158N 0043322W - 531229N 0043316W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 531453N 0043207W to 531224N 0043223W - 531154N 0043228W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU301C VALLEY RWY 19 531810N 0043213W - 531806N 0043120W - 531721N 0043128W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 531453N 0043207W to 531723N 0043222W - 531810N 0043213W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU301D VALLEY RWY 13 531646N 0043630W - 531711N 0043555W - 531642N 0043459W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 531453N 0043207W to 531618N 0043534W - 531646N 0043630W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU301E VALLEY RWY 31 531253N 0042730W - 531228N 0042805W - 531305N 0042916W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 531453N 0043207W to 531329N 0042841W - 531253N 0042730W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU302A CAERNARFON A circle, 2 NM radius, centred at 530607N 0042015W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU302B CAERNARFON RWY 07 530455N 0042437W - 530525N 0042455W - 530543N 0042331W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530607N 0042015W to 530512N 0042313W - 530455N 0042437W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU302C CAERNARFON RWY 25 530718N 0041554W - 530648N 0041536W - 530630N 0041700W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530607N 0042015W to 530701N 0041718W - 530718N 0041554W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU303A WOODVALE A circle, 2 NM radius, centred at 533454N 0030327W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU303B WOODVALE RWY 03 533204N 0030543W - 533220N 0030630W - 533320N 0030531W thence anti-clockwise by the arc of a circle radius 2 NM centred on 533454N 0030327W to 533304N 0030444W - 533204N 0030543W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU303C WOODVALE RWY 21 533745N 0030111W - 533728N 0030024W - 533628N 0030123W thence anti-clockwise by the arc of a circle radius 2 NM centred on 533454N 0030327W to 533645N 0030210W - 533745N 0030111W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU303D WOODVALE RWY 08 533358N 0030816W - 533430N 0030825W - 533439N 0030647W thence anti-clockwise by the arc of a circle radius 2 NM centred on 533454N 0030327W to 533408N 0030633W - 533358N 0030816W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU303E WOODVALE RWY 26 533526N 0025847W - 533454N 0025838W - 533446N 0030006W thence anti-clockwise by the arc of a circle radius 2 NM centred on 533454N 0030327W to 533518N 0030010W - 533526N 0025847W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU304A BLACKPOOL A circle, 2.5 NM radius, centred at 534618N 0030143W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU304B BLACKPOOL RWY 10 534617N 0030708W - 534649N 0030704W - 534646N 0030551W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 534618N 0030143W to 534613N 0030556W - 534617N 0030708W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU304C BLACKPOOL RWY 28 534618N 0025618W - 534546N 0025622W - 534549N 0025735W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 534618N 0030143W to 534622N 0025730W - 534618N 0025618W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU304D BLACKPOOL RWY 13 534750N 0030625W - 534816N 0030552W - 534752N 0030459W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 534618N 0030143W to 534725N 0030529W - 534750N 0030625W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU304E BLACKPOOL RWY 31 534444N 0025801W - 534418N 0025834W - 534427N 0025854W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 534618N 0030143W to 534451N 0025817W - 534444N 0025801W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU305A HAWARDEN A circle, 2.5 NM radius, centred at 531041N 0025840W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU305B HAWARDEN RWY 04 530811N 0030141W - 530832N 0030222W - 530859N 0030143W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 531041N 0025840W to 530838N 0030102W - 530811N 0030141W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU305C HAWARDEN RWY 22 531311N 0025538W - 531250N 0025457W - 531223N 0025537W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 531041N 0025840W to 531244N 0025618W - 531311N 0025538W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU306A WARTON A circle, 2.5 NM radius, centred at 534442N 0025300W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU306B WARTON RWY 07 534322N 0025811W - 534353N 0025828W - 534409N 0025707W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 534442N 0025300W to 534339N 0025649W - 534322N 0025811W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU306C WARTON RWY 25 534602N 0024750W - 534531N 0024732W - 534515N 0024854W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 534442N 0025300W to 534545N 0024911W - 534602N 0024750W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU307A LIVERPOOL A circle, 2.5 NM radius, centred at 532001N 0025059W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU307B LIVERPOOL RWY 09 531930N 0025625W - 532002N 0025629W - 532006N 0025509W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 532001N 0025059W to 531933N 0025505W - 531930N 0025625W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU307C LIVERPOOL RWY 27 532032N 0024530W - 532000N 0024526W - 531956N 0024649W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 532001N 0025059W to 532029N 0024653W - 532032N 0024530W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU308A MANCHESTER A circle, 2.5 NM radius, centred at 532113N 0021630W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU308B MANCHESTER RWY 05L 531857N 0022029W - 531922N 0022103W - 531953N 0022000W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 532113N 0021630W to 531928N 0021926W - 531857N 0022029W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU308C MANCHESTER RWY 23R 532335N 0021220W - 532310N 0021146W - 532235N 0021259W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 532113N 0021630W to 532300N 0021333W - 532335N 0021220W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU308D MANCHESTER RWY 05R 531801N 0022151W - 531826N 0022225W - 531942N 0021948W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 532113N 0021630W to 531919N 0021910W - 531801N 0022151W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309A MANCHESTER BARTON 532618N 0022327W thence clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532749N 0022008W - 532638N 0022258W - 532618N 0022327W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309B MANCHESTER BARTON RWY 02 532531N 0022405W - 532540N 0022457W - 532626N 0022437W thence anti-clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532619N 0022344W - 532531N 0022405W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309C MANCHESTER BARTON RWY 20 533107N 0022234W - 533059N 0022141W - 533008N 0022204W thence anti-clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 533016N 0022256W - 533107N 0022234W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309D MANCHESTER BARTON RWY 08L 532741N 0022809W - 532813N 0022816W - 532820N 0022644W thence anti-clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532748N 0022637W - 532741N 0022809W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309E MANCHESTER BARTON RWY 26R 532856N 0021843W - 532824N 0021836W - 532817N 0022002W thence anti-clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532850N 0022009W - 532856N 0021843W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309F MANCHESTER BARTON RWY 08R 532740N 0022805W - 532812N 0022812W - 532819N 0022644W thence anti-clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532747N 0022637W - 532740N 0022805W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309G MANCHESTER BARTON RWY 26L 532855N 0021841W - 532823N 0021834W - 532816N 0022002W thence anti-clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532848N 0022009W - 532855N 0021841W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU309H MANCHESTER BARTON RWY 13 533006N 0022654W - 533029N 0022616W - 532956N 0022518W thence anti-clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532934N 0022558W - 533006N 0022654W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU309I MANCHESTER BARTON RWY 31 532635N 0021932W - 532612N 0022010W - 532708N 0022146W - 532727N 0022101W - 532635N 0021932W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU310A LEEDS BRADFORD A circle, 2.5 NM radius, centred at 535158N 0013939W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU310B LEEDS BRADFORD RWY 14 535406N 0014333W - 535428N 0014253W - 535359N 0014208W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 535158N 0013939W to 535337N 0014249W - 535406N 0014333W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU310C LEEDS BRADFORD RWY 32 534948N 0013543W - 534927N 0013624W - 534957N 0013710W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 535158N 0013939W to 535018N 0013629W - 534948N 0013543W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311A SHERBURN-IN-ELMET 534837N 0011510W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534823N 0011032W - 534837N 0011510W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311B SHERBURN-IN-ELMET RWY 01 534422N 0011301W - 534426N 0011355W - 534506N 0011346W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534504N 0011251W - 534422N 0011301W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311C SHERBURN-IN-ELMET RWY 19 535003N 0011234W - 534959N 0011140W - 534827N 0011202W - 534830N 0011257W - 535003N 0011234W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311D SHERBURN-IN-ELMET RWY 06 534533N 0011659W - 534601N 0011727W - 534627N 0011616W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534558N 0011553W - 534533N 0011659W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311E SHERBURN-IN-ELMET RWY 24 534901N 0010912W - 534834N 0010843W - 534803N 0011008W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534823N 0011032W - 534824N 0011054W - 534901N 0010912W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311F SHERBURN-IN-ELMET RWY 10 534728N 0011758W - 534759N 0011745W - 534746N 0011612W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534715N 0011625W - 534728N 0011758W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU311G SHERBURN-IN-ELMET RWY 28 534640N 0010821W - 534609N 0010834W - 534620N 0010955W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534652N 0010942W - 534640N 0010821W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311H SHERBURN-IN-ELMET RWY 10G 534730N 0011755W - 534801N 0011743W - 534748N 0011611W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534717N 0011625W - 534730N 0011755W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU311I SHERBURN-IN-ELMET RWY 28G 534643N 0010818W - 534611N 0010830W - 534623N 0010953W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534654N 0010942W - 534643N 0010818W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU312A NETHERTHORPE A circle, 2 NM radius, centred at 531901N 0011146W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU312B NETHERTHORPE RWY 06 531712N 0011522W - 531739N 0011552W - 531807N 0011445W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0011146W to 531740N 0011414W - 531712N 0011522W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU312C NETHERTHORPE RWY 24 532049N 0010813W - 532022N 0010742W - 531955N 0010848W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0011146W to 532022N 0010918W - 532049N 0010813W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU312D NETHERTHORPE RWY 18 532146N 0011236W - 532149N 0011142W - 532101N 0011135W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0011146W to 532058N 0011229W - 532146N 0011236W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU312E NETHERTHORPE RWY 36 531617N 0011052W - 531614N 0011146W - 531701N 0011153W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0011146W to 531705N 0011059W - 531617N 0011052W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU313A LEEDS EAST 534837N 0011510W thence clockwise by the arc of a circle radius 2.5 NM centred on 535004N 0011144W to 534749N 0010956W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534823N 0011032W - 534837N 0011510W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU313B LEEDS EAST RWY 06 534803N 0011546W - 534829N 0011617W - 534851N 0011525W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 535004N 0011144W to 534837N 0011510W - 534835N 0011429W - 534803N 0011546W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU313C LEEDS EAST RWY 24 535208N 0010735W - 535142N 0010703W - 535117N 0010802W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 535004N 0011144W to 535143N 0010834W - 535208N 0010735W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU315A RETFORD/GAMSTON A circle, 2 NM radius, centred at 531650N 0005705W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU315B RETFORD/GAMSTON RWY 03 531359N 0005848W - 531413N 0005937W - 531509N 0005853W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531650N 0005705W to 531456N 0005804W - 531359N 0005848W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU315C RETFORD/GAMSTON RWY 21 531941N 0005522W - 531928N 0005433W - 531831N 0005517W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531650N 0005705W to 531844N 0005606W - 531941N 0005522W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316A SYERSTON A circle, 2 NM radius, centred at 530124N 0005442W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316B SYERSTON RWY 02L 525833N 0005647W - 525847N 0005735W - 525949N 0005644W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 525933N 0005557W - 525833N 0005647W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316C SYERSTON RWY 20R 530411N 0005312W - 530356N 0005223W - 530308N 0005303W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530320N 0005353W - 530411N 0005312W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316D SYERSTON RWY 02R 525834N 0005641W - 525848N 0005729W - 525948N 0005640W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 525932N 0005553W - 525834N 0005641W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316E SYERSTON RWY 20L 530411N 0005306W - 530357N 0005218W - 530307N 0005259W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530319N 0005348W - 530411N 0005306W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316F SYERSTON RWY 06 525941N 0005911W - 530010N 0005936W - 530043N 0005749W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530015N 0005724W - 525941N 0005911W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316G SYERSTON RWY 24 530305N 0005018W - 530236N 0004953W - 530204N 0005135W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530233N 0005200W - 530305N 0005018W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU316H SYERSTON RWY 06L 525945N 0005907W - 530013N 0005931W - 530045N 0005750W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530016N 0005726W - 525945N 0005907W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316I SYERSTON RWY 24R 530301N 0005038W - 530232N 0005013W - 530206N 0005136W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530235N 0005201W - 530301N 0005038W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316J SYERSTON RWY 06R 525942N 0005904W - 530010N 0005929W - 530042N 0005748W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530014N 0005723W - 525942N 0005904W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316K SYERSTON RWY 24L 530256N 0005042W - 530227N 0005017W - 530203N 0005134W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530232N 0005158W - 530256N 0005042W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316L SYERSTON RWY 11 530158N 0005936W - 530229N 0005919W - 530210N 0005745W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530139N 0005759W - 530158N 0005936W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316M SYERSTON RWY 29 530042N 0005021W - 530011N 0005038W - 530025N 0005149W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530055N 0005129W - 530042N 0005021W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316N SYERSTON RWY 11L 530201N 0005937W - 530231N 0005921W - 530212N 0005744W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530141N 0005759W - 530201N 0005937W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316O SYERSTON RWY 29R 530038N 0004954W - 530008N 0005010W - 530027N 0005147W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530057N 0005128W - 530038N 0004954W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316P SYERSTON RWY 11R 530157N 0005940W - 530228N 0005923W - 530209N 0005747W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530137N 0005800W - 530157N 0005940W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316Q SYERSTON RWY 29L 530034N 0004949W - 530003N 0005006W - 530024N 0005150W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530054N 0005130W - 530034N 0004949W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU316R SYERSTON RWY 15 530357N 0005715W - 530413N 0005628W - 530319N 0005538W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530306N 0005627W - 530357N 0005715W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316S SYERSTON RWY 33 525859N 0005135W - 525843N 0005222W - 525937N 0005312W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 525955N 0005228W - 525859N 0005135W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316T SYERSTON RWY 15L 530354N 0005709W - 530410N 0005622W - 530320N 0005534W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530307N 0005624W - 530354N 0005709W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316U SYERSTON RWY 33R 525857N 0005130W - 525841N 0005217W - 525938N 0005310W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 525957N 0005226W - 525857N 0005130W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316V SYERSTON RWY 15R 530355N 0005717W - 530411N 0005630W - 530318N 0005541W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 530305N 0005630W - 530355N 0005717W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU316W SYERSTON RWY 33L 525901N 0005141W - 525845N 0005228W - 525936N 0005315W thence anti-clockwise by the arc of a circle radius 2 NM centred on 530124N 0005442W to 525954N 0005231W - 525901N 0005141W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU317A SANDTOFT A circle, 2 NM radius, centred at 533335N 0005130W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU317B SANDTOFT RWY 05 533118N 0005438W - 533141N 0005517W - 533222N 0005409W thence anti-clockwise by the arc of a circle radius 2 NM centred on 533335N 0005130W to 533159N 0005330W - 533118N 0005438W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU317C SANDTOFT RWY 23 533547N 0004830W - 533525N 0004751W - 533448N 0004851W thence anti-clockwise by the arc of a circle radius 2 NM centred on 533335N 0005130W to 533511N 0004930W - 533547N 0004830W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU319A WADDINGTON A circle, 2.5 NM radius, centred at 530958N 0003126W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU319B WADDINGTON RWY 02 530639N 0003308W - 530651N 0003358W - 530746N 0003322W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530958N 0003126W to 530734N 0003233W - 530639N 0003308W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU319C WADDINGTON RWY 20 531313N 0002946W - 531301N 0002856W - 531210N 0002929W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530958N 0003126W to 531222N 0003019W - 531313N 0002946W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320A CRANWELL A circle, 2.5 NM radius, centred at 530147N 0002934W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320B CRANWELL RWY 01 525833N 0002919W - 525838N 0003012W - 525918N 0003003W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 525918N 0002909W - 525833N 0002919W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320C CRANWELL RWY 19 530445N 0002845W - 530440N 0002751W - 530406N 0002800W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530415N 0002852W - 530445N 0002845W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320D CRANWELL RWY 08 530107N 0003443W - 530139N 0003450W - 530144N 0003342W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530112N 0003335W - 530107N 0003443W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320E CRANWELL RWY 26 530227N 0002421W - 530155N 0002414W - 530150N 0002526W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530222N 0002532W - 530227N 0002421W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320F CRANWELL RWY 08N 530107N 0003416W - 530139N 0003423W - 530142N 0003342W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530110N 0003335W - 530107N 0003416W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320G CRANWELL RWY 26N 530221N 0002450W - 530149N 0002443W - 530146N 0002525W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530218N 0002531W - 530221N 0002450W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320H CRANWELL RWY 06 530100N 0003352W - 530129N 0003415W - 530139N 0003342W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530106N 0003333W - 530100N 0003352W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320I CRANWELL RWY 24 530406N 0002513W - 530337N 0002450W - 530314N 0002611W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530339N 0002648W - 530406N 0002513W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU320K CRANWELL RWY 21 530519N 0002721W - 530503N 0002635W - 530359N 0002737W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530147N 0002934W to 530411N 0002828W - 530519N 0002721W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU321A HUMBERSIDE A circle, 2.5 NM radius, centred at 533424N 0002105W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU321B HUMBERSIDE RWY 02 533119N 0002244W - 533132N 0002334W - 533213N 0002305W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 533424N 0002105W to 533201N 0002215W - 533119N 0002244W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU321C HUMBERSIDE RWY 20 533729N 0001927W - 533717N 0001836W - 533636N 0001905W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 533424N 0002105W to 533648N 0001955W - 533729N 0001927W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU321D HUMBERSIDE RWY 08 533356N 0002538W - 533428N 0002545W - 533430N 0002517W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 533424N 0002105W to 533358N 0002513W - 533356N 0002538W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU321E HUMBERSIDE RWY 26 533513N 0001609W - 533441N 0001602W - 533437N 0001655W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 533424N 0002105W to 533509N 0001705W - 533513N 0001609W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU322A WICKENBY A circle, 2 NM radius, centred at 531901N 0002056W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU322B WICKENBY RWY 03 531620N 0002232W - 531634N 0002321W - 531720N 0002245W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0002056W to 531707N 0002156W - 531620N 0002232W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU322C WICKENBY RWY 21 532142N 0001919W - 532128N 0001830W - 532041N 0001907W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0002056W to 532055N 0001955W - 532142N 0001919W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU322D WICKENBY RWY 15 532121N 0002345W - 532137N 0002258W - 532051N 0002214W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0002056W to 532035N 0002300W - 532121N 0002345W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU322E WICKENBY RWY 33 531643N 0001817W - 531627N 0001904W - 531709N 0001944W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531901N 0002056W to 531725N 0001857W - 531643N 0001817W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU323A CONINGSBY A circle, 2.5 NM radius, centred at 530535N 0000958W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU323B CONINGSBY RWY 07 530416N 0001515W - 530447N 0001532W - 530505N 0001402W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530535N 0000958W to 530434N 0001345W - 530416N 0001515W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU323C CONINGSBY RWY 25 530655N 0000441W - 530624N 0000424W - 530606N 0000555W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 530535N 0000958W to 530637N 0000611W - 530655N 0000441W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU324A MONA A circle, 2 NM radius, centred at 531533N 0042226W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU324B MONA RWY 04 531255N 0042513W - 531315N 0042556W - 531409N 0042448W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531533N 0042226W to 531349N 0042405W - 531255N 0042513W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU324C MONA RWY 22 531813N 0041938W - 531753N 0041855W - 531658N 0042005W thence anti-clockwise by the arc of a circle radius 2 NM centred on 531533N 0042226W to 531718N 0042048W - 531813N 0041938W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU325 HMP ALTCOURSE 532802N 0025617W - 532801N 0025600W - 532751N 0025537W - 532734N 0025532W - 532725N 0025547W - 532726N 0025636W - 532740N 0025641W - 532753N 0025641W - 532802N 0025617W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 86 FT AMSL
EGRU326 HMP ASKHAM GRANGE 535551N 0011124W - 535552N 0011041W - 535537N 0011031W - 535520N 0011046W - 535516N 0011105W - 535520N 0011123W - 535539N 0011137W - 535551N 0011124W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 104 FT AMSL
EGRU327 HMP BERWYN 530233N 0025539W - 530210N 0025453W - 530137N 0025537W - 530159N 0025625W - 530233N 0025539W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 118 FT AMSL
EGRU328 HMP BUCKLEY HALL 533825N 0020916W - 533826N 0020823W - 533805N 0020814W - 533754N 0020816W - 533744N 0020841W - 533758N 0020909W - 533825N 0020916W	Upper limit: 1000 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 585 FT AMSL
EGRU329 HMP DONCASTER 533154N 0010840W - 533130N 0010807W - 533104N 0010843W - 533126N 0010928W - 533154N 0010840W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 55 FT AMSL
EGRU330 HMP FOREST BANK 533113N 0021811W - 533102N 0021732W - 533047N 0021730W - 533029N 0021808W - 533056N 0021847W - 533113N 0021811W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 128 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU331 HMP FULL SUTTON 535923N 0005234W - 535920N 0005134W - 535842N 0005138W - 535845N 0005239W - 535923N 0005234W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 57 FT AMSL
EGRU332 HMP GARTH/WYMOTT 534108N 0024604W - 534108N 0024455W - 534103N 0024428W - 534023N 0024424W - 534022N 0024529W - 534033N 0024603W - 534108N 0024604W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 50 FT AMSL
EGRU333 HMP HINDLEY 533127N 0023410W - 533057N 0023356W - 533048N 0023459W - 533119N 0023510W - 533127N 0023410W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 127 FT AMSL
EGRU334 HMP HULL 534518N 0001815W - 534518N 0001708W - 534458N 0001709W - 534439N 0001732W - 534439N 0001817W - 534518N 0001815W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 17 FT AMSL
EGRU335 HMP HUMBER 534633N 0003818W - 534627N 0003753W - 534605N 0003727W - 534549N 0003759W - 534550N 0003846W - 534617N 0003904W - 534633N 0003818W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 71 FT AMSL
EGRU336 HMP LEEDS 534805N 0013438W - 534758N 0013410W - 534733N 0013407W - 534727N 0013438W - 534739N 0013509W - 534801N 0013501W - 534805N 0013438W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 245 FT AMSL
EGRU337 HMP LINCOLN 531426N 0003115W - 531422N 0003038W - 531400N 0003032W - 531350N 0003046W - 531353N 0003122W - 531401N 0003132W - 531415N 0003132W - 531426N 0003115W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk EGRU337 is contained within EGD324A (activated by NOTAM) SI 2023/1101 Site elevation: 163 FT AMSL
EGRU338 HMP LINDHOLME/MOORLAND 533313N 0005850W - 533311N 0005732W - 533254N 0005713W - 533214N 0005733W - 533219N 0005853W - 533313N 0005850W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 29 FT AMSL
EGRU339 HMP LIVERPOOL 532740N 0025848W - 532750N 0025753W - 532742N 0025741W - 532719N 0025731W - 532706N 0025834W - 532740N 0025848W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 117 FT AMSL
EGRU340 HMP LOWDHAM GRANGE 530115N 0010219W - 530110N 0010156W - 530055N 0010149W - 530039N 0010203W - 530035N 0010234W - 530052N 0010258W - 530108N 0010247W - 530115N 0010219W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 281 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU341 HMP MANCHESTER 533000N 0021509W - 532957N 0021446W - 532943N 0021414W - 532929N 0021413W - 532919N 0021435W - 532916N 0021448W - 532920N 0021507W - 532937N 0021520W - 533000N 0021509W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 153 FT AMSL
EGRU342 HMP MORTON HALL 531026N 0004128W - 531021N 0004043W - 530946N 0004034W - 530938N 0004054W - 530942N 0004135W - 531008N 0004144W - 531026N 0004128W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 79 FT AMSL
EGRU343 HMP NEW HALL 533826N 0013700W - 533826N 0013620W - 533811N 0013613W - 533753N 0013618W - 533752N 0013640W - 533800N 0013716W - 533818N 0013719W - 533826N 0013700W	Upper limit: 900 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 458 FT AMSL
EGRU344 HMP PRESTON 534606N 0024105W - 534537N 0024043W - 534525N 0024124W - 534538N 0024149W - 534555N 0024139W - 534606N 0024105W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 147 FT AMSL
EGRU345 HMP RANBY 531943N 0005946W - 531922N 0005920W - 531858N 0005925W - 531903N 0010035W - 531926N 0010034W - 531943N 0005946W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 153 FT AMSL
EGRU346 HMP RISLEY 532638N 0023135W - 532635N 0023109W - 532624N 0023059W - 532602N 0023050W - 532558N 0023204W - 532625N 0023154W - 532638N 0023135W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 126 FT AMSL
EGRU347 HMP STYAL 532043N 0021412W - 532031N 0021342W - 532010N 0021357W - 532005N 0021442W - 532019N 0021500W - 532038N 0021441W - 532043N 0021412W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by Non-Standard Flight Applications (NSF NATS) and HMPPS. NSF: Online Application: https://nsf.nats.aero/drones-and-model-aircraft/ HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 271 FT AMSL
EGRU348 HMP WAKEFIELD 534112N 0013105W - 534118N 0013027W - 534051N 0012947W - 534035N 0013042W - 534054N 0013104W - 534112N 0013105W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 117 FT AMSL
EGRU349 HMP WEALSTUN 535520N 0011957W - 535515N 0011917W - 535456N 0011909W - 535432N 0011932W - 535432N 0011955W - 535443N 0012021W - 535454N 0012018W - 535506N 0012011W - 535520N 0011957W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 104 FT AMSL
EGRU350 HMP WERRINGTON 530135N 0020538W - 530140N 0020507W - 530131N 0020450W - 530108N 0020437W - 530100N 0020530W - 530118N 0020540W - 530135N 0020538W	Upper limit: 1300 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 834 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU351 HMP WETHERBY 535628N 0012218W - 535633N 0012138W - 535557N 0012124W - 535551N 0012229W - 535616N 0012241W - 535623N 0012221W - 535628N 0012218W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 89 FT AMSL
EGRU353 CARR GATE A circle, 0.5 NM radius, centred at 534238N 0013222W	Upper limit: 1400 FT ALT Lower limit: SFC	Unmanned Aircraft Restriction. H24. National Police Air Service activity. Permissions to fly UAS within the Restricted Area are to be obtained from NPAS Operations Centre via email: ops.centre@npas.police.uk or telephone: 01924-962814. Site elevation: 403 FT AMSL
EGRU401A ENNISKILLEN/ST ANGELO A circle, 2 NM radius, centred at 542355N 0073907W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU401B ENNISKILLEN/ST ANGELO RWY 14 542602N 0074247W - 542623N 0074205W - 542536N 0074057W thence anti-clockwise by the arc of a circle radius 2 NM centred on 542355N 0073907W to 542515N 0074139W - 542602N 0074247W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU401C ENNISKILLEN/ST ANGELO RWY 32 542152N 0073531W - 542131N 0073613W - 542214N 0073716W thence anti-clockwise by the arc of a circle radius 2 NM centred on 542355N 0073907W to 542235N 0073634W - 542152N 0073531W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU402A BELFAST ALDERGROVE A circle, 2.5 NM radius, centred at 543927N 0061257W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU402B BELFAST ALDERGROVE RWY 07 543745N 0061808W - 543815N 0061831W - 543839N 0061702W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 543927N 0061257W to 543810N 0061638W - 543745N 0061808W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU402C BELFAST ALDERGROVE RWY 25 544109N 0060745W - 544039N 0060721W - 544015N 0060852W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 543927N 0061257W to 544044N 0060916W - 544109N 0060745W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU402D BELFAST ALDERGROVE RWY 17 544157N 0061536W - 544207N 0061443W - 544146N 0061431W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 543927N 0061257W to 544131N 0061521W - 544157N 0061536W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU402E BELFAST ALDERGROVE RWY 35 543604N 0061119W - 543554N 0061212W - 543657N 0061247W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 543927N 0061257W to 543702N 0061152W - 543604N 0061119W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU403A BELFAST/CITY A circle, 2 NM radius, centred at 543705N 0055221W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU403B BELFAST/CITY RWY 04 543421N 0055503W - 543440N 0055549W - 543537N 0055441W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543705N 0055221W to 543518N 0055355W - 543421N 0055503W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU403C BELFAST/CITY RWY 22 543951N 0054936W - 543933N 0054850W - 543833N 0055002W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543705N 0055221W to 543852N 0055047W - 543951N 0054936W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU404A NEWTOWNARDS A circle, 2 NM radius, centred at 543452N 0054131W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU404B NEWTOWNARDS RWY 03 543214N 0054343W - 543231N 0054430W - 543319N 0054340W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543452N 0054131W to 543302N 0054253W - 543214N 0054343W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU404C NEWTOWNARDS RWY 21 543727N 0053922W - 543710N 0053834W - 543625N 0053921W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543452N 0054131W to 543642N 0054009W - 543727N 0053922W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU404D NEWTOWNARDS RWY 08 543356N 0054615W - 543428N 0054627W - 543440N 0054456W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543452N 0054131W to 543408N 0054443W - 543356N 0054615W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU404E NEWTOWNARDS RWY 26 543545N 0053655W - 543513N 0053642W - 543502N 0053806W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543452N 0054131W to 543534N 0053818W - 543545N 0053655W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU404F NEWTOWNARDS RWY 15 543716N 0054418W - 543733N 0054330W - 543645N 0054241W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543452N 0054131W to 543630N 0054331W - 543716N 0054418W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU404G NEWTOWNARDS RWY 33 543241N 0053834W - 543224N 0053922W - 543304N 0054002W thence anti-clockwise by the arc of a circle radius 2 NM centred on 543452N 0054131W to 543322N 0053916W - 543241N 0053834W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU406A WALNEY A circle, 2 NM radius, centred at 540752N 0031548W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU406B WALNEY RWY 17 541032N 0031742W - 541040N 0031649W - 540949N 0031628W thence anti-clockwise by the arc of a circle radius 2 NM centred on 540752N 0031548W to 540939N 0031720W - 541032N 0031742W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU406C WALNEY RWY 35 540454N 0031423W - 540447N 0031517W - 540552N 0031544W thence anti-clockwise by the arc of a circle radius 2 NM centred on 540752N 0031548W to 540557N 0031450W - 540454N 0031423W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU408A LEEMING A circle, 2.5 NM radius, centred at 541733N 0013207W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU408B LEEMING RWY 16 542028N 0013452W - 542041N 0013402W - 541955N 0013327W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 541733N 0013207W to 541942N 0013417W - 542028N 0013452W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU408C LEEMING RWY 34 541438N 0012923W - 541425N 0013013W - 541511N 0013048W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 541733N 0013207W to 541524N 0012958W - 541438N 0012923W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU408D LEEMING RWY 03 541517N 0013411W - 541532N 0013459W - 541539N 0013453W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 541733N 0013207W to 541521N 0013407W - 541517N 0013411W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU408E LEEMING RWY 21 542039N 0013015W - 542024N 0012927W - 541944N 0013003W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 541733N 0013207W to 541957N 0013055W - 542039N 0013015W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU409A TEESSIDE INTERNATIONAL A circle, 2.5 NM radius, centred at 543033N 0012546W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU409B TEESSIDE INTERNATIONAL RWY 05 542807N 0012938W - 542831N 0013016W - 542904N 0012913W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 543033N 0012546W to 542840N 0012836W - 542807N 0012938W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU409C TEESSIDE INTERNATIONAL RWY 23 543259N 0012153W - 543235N 0012115W - 543202N 0012219W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 543033N 0012546W to 543226N 0012256W - 543259N 0012153W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU410A TOPCLIFFE A circle, 2 NM radius, centred at 541220N 0012254W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU410B TOPCLIFFE RWY 02 540928N 0012421W - 540940N 0012512W - 541036N 0012434W thence anti-clockwise by the arc of a circle radius 2 NM centred on 541220N 0012254W to 541024N 0012343W - 540928N 0012421W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU410C TOPCLIFFE RWY 20 541524N 0012119W - 541512N 0012027W - 541405N 0012113W thence anti-clockwise by the arc of a circle radius 2 NM centred on 541220N 0012254W to 541417N 0012204W - 541524N 0012119W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU410D TOPCLIFFE RWY 13 541355N 0012720W - 541421N 0012647W - 541344N 0012520W thence anti-clockwise by the arc of a circle radius 2 NM centred on 541220N 0012254W to 541318N 0012553W - 541355N 0012720W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU410E TOPCLIFFE RWY 31 541053N 0011838W - 541027N 0011910W - 541059N 0012024W thence anti-clockwise by the arc of a circle radius 2 NM centred on 541220N 0012254W to 541125N 0011953W - 541053N 0011838W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU410F TOPCLIFFE RWY 07 541107N 0012746W - 541138N 0012800W - 541155N 0012614W thence anti-clockwise by the arc of a circle radius 2 NM centred on 541220N 0012254W to 541124N 0012555W - 541107N 0012746W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU410G TOPCLIFFE RWY 25 541311N 0011812W - 541240N 0011758W - 541225N 0011930W thence anti-clockwise by the arc of a circle radius 2 NM centred on 541220N 0012254W to 541257N 0011939W - 541311N 0011812W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU411A ISLE OF MAN A circle, 2.7 NM radius, centred at 540500N 0043724W	Upper limit: UNL Lower limit: SFC	Restricted airspace active H24. Small unmanned aircraft flight not permitted except with the permission of the Isle of Man CAA. Contact caa@gov.im or 01624-682358
EGRU412 ISLE OF MAN PRISON 542124N 0043154W - 542128N 0043151W - 542129N 0043150W - 542133N 0043143W - 542132N 0043141W - 542117N 0043127W - 542114N 0043143W - 542113N 0043153W - 542116N 0043201W - 542117N 0043201W - 542124N 0043154W	Upper limit: UNL Lower limit: SFC	Restricted airspace active H24. Contact caa@gov.im or 01624-682358 for further details
EGRU413 HMP DEERBOLT 543255N 0015600W - 543222N 0015541W - 543214N 0015609W - 543221N 0015700W - 543244N 0015701W - 543255N 0015600W	Upper limit: 1100 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 602 FT AMSL
EGRU414 HMP DURHAM 544641N 0013402W - 544635N 0013340W - 544614N 0013337W - 544602N 0013352W - 544609N 0013429W - 544637N 0013440W - 544641N 0013402W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 196 FT AMSL
EGRU415 HMP FRANKLAND/LOW NEWTON 544839N 0013233W - 544800N 0013221W - 544753N 0013317W - 544810N 0013351W - 544832N 0013351W - 544839N 0013233W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 208 FT AMSL
EGRU416 HMP HOLME HOUSE 543500N 0011748W - 543500N 0011715W - 543433N 0011658W - 543422N 0011718W - 543423N 0011748W - 543435N 0011809W - 543448N 0011809W - 543500N 0011748W	Upper limit: 500 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 39 FT AMSL

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU417 HMP LANCASTER FARMS 540337N 0024623W - 540334N 0024557W - 540325N 0024544W - 540304N 0024548W - 540255N 0024607W - 540256N 0024629W - 540309N 0024645W - 540329N 0024641W - 540337N 0024623W	Upper limit: 700 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 238 FT AMSL
EGRU501A LONDONDERRY/EGLINTON A circle, 2.5 NM radius, centred at 550234N 0070943W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU501B LONDONDERRY/EGLINTON RWY 08 550123N 0071453W - 550154N 0071509W - 550206N 0071359W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 550234N 0070943W to 550135N 0071343W - 550123N 0071453W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU501C LONDONDERRY/EGLINTON RWY 26 550345N 0070429W - 550314N 0070412W - 550301N 0070527W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 550234N 0070943W to 550332N 0070543W - 550345N 0070429W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU502A ISLAY A circle, 2 NM radius, centred at 554100N 0061535W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU502B ISLAY RWY 07 553948N 0061952W - 554018N 0062011W - 554032N 0061901W thence anti-clockwise by the arc of a circle radius 2 NM centred on 554100N 0061535W to 554002N 0061840W - 553948N 0061952W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU502C ISLAY RWY 25 554212N 0061040W - 554142N 0061021W - 554121N 0061206W thence anti-clockwise by the arc of a circle radius 2 NM centred on 554100N 0061535W to 554152N 0061224W - 554212N 0061040W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU502D ISLAY RWY 12 554220N 0062026W - 554248N 0061957W - 554215N 0061820W thence anti-clockwise by the arc of a circle radius 2 NM centred on 554100N 0061535W to 554147N 0061850W - 554220N 0062026W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU502E ISLAY RWY 30 553941N 0061044W - 553913N 0061113W - 553945N 0061249W thence anti-clockwise by the arc of a circle radius 2 NM centred on 554100N 0061535W to 554013N 0061220W - 553941N 0061044W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU503A CAMPBELTOWN A circle, 2 NM radius, centred at 552615N 0054117W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU503B CAMPBELTOWN RWY 11 552646N 0054608W - 552717N 0054552W - 552704N 0054430W thence anti-clockwise by the arc of a circle radius 2 NM centred on 552615N 0054117W to 552633N 0054446W - 552646N 0054608W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU503C CAMPBELTOWN RWY 29 552535N 0053529W - 552504N 0053544W - 552527N 0053804W thence anti-clockwise by the arc of a circle radius 2 NM centred on 552615N 0054117W to 552558N 0053749W - 552535N 0053529W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU504A PRESTWICK A circle, 2.5 NM radius, centred at 553034N 0043540W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU504B PRESTWICK RWY 02 552644N 0043643W - 552657N 0043735W - 552808N 0043640W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 553034N 0043540W to 552804N 0043541W - 552644N 0043643W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU504C PRESTWICK RWY 20 553247N 0043304W - 553234N 0043212W - 553215N 0043226W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 553034N 0043540W to 553237N 0043311W - 553247N 0043304W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU504D PRESTWICK RWY 12 553205N 0044100W - 553233N 0044030W - 553205N 0043910W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 553034N 0043540W to 553137N 0043939W - 553205N 0044100W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU504E PRESTWICK RWY 30 552858N 0043010W - 552831N 0043040W - 552903N 0043211W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 553034N 0043540W to 552930N 0043142W - 552858N 0043010W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU505A GLASGOW A circle, 2.5 NM radius, centred at 555218N 0042601W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU505B GLASGOW RWY 05 554945N 0043005W - 555009N 0043044W - 555047N 0042933W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 555218N 0042601W to 555024N 0042853W - 554945N 0043005W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU505C GLASGOW RWY 23 555444N 0042210W - 555421N 0042130W - 555349N 0042229W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 555218N 0042601W to 555412N 0042309W - 555444N 0042210W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU506A CUMBERNAULD A circle, 2 NM radius, centred at 555829N 0035832W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU506B CUMBERNAULD RWY 07 555721N 0040320W - 555752N 0040338W - 555809N 0040202W thence anti-clockwise by the arc of a circle radius 2 NM centred on 555829N 0035832W to 555738N 0040145W - 555721N 0040320W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU506C CUMBERNAULD RWY 25 555937N 0035343W - 555906N 0035325W - 555849N 0035501W thence anti-clockwise by the arc of a circle radius 2 NM centred on 555829N 0035832W to 555920N 0035518W - 555937N 0035343W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU507A EDINBURGH A circle, 2.5 NM radius, centred at 555700N 0032221W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU507B EDINBURGH RWY 06 555504N 0032705W - 555532N 0032735W - 555557N 0032623W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 555700N 0032221W to 555529N 0032553W - 555504N 0032705W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU507C EDINBURGH RWY 24 555855N 0031737W - 555827N 0031707W - 555803N 0031819W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 555700N 0032221W to 555831N 0031849W - 555855N 0031737W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU508A NEWCASTLE A circle, 2.5 NM radius, centred at 550217N 0014123W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU508B NEWCASTLE RWY 07 550040N 0014620W - 550109N 0014644W - 550129N 0014530W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 550217N 0014123W to 550059N 0014507W - 550040N 0014620W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU508C NEWCASTLE RWY 25 550353N 0013627W - 550324N 0013603W - 550304N 0013716W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 550217N 0014123W to 550334N 0013740W - 550353N 0013627W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU509A KIRKNEWTON A circle, 2 NM radius, centred at 555224N 0032355W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU510 HMP NORTHUMBERLAND 551818N 0013757W - 551756N 0013719W - 551743N 0013716W - 551716N 0013805W - 551720N 0013839W - 551737N 0013910W - 551818N 0013757W	Upper limit: 600 FT ALT Lower limit: SFC	HMP Restricted airspace active H24. Unmanned aircraft flight not permitted unless permission has been granted by HMPPS. HMPPS email: drone.RFZapplication@justice.gov.uk SI 2023/1101 Site elevation: 118 FT AMSL
EGRU601A TIREE A circle, 2 NM radius, centred at 562957N 0065209W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU601B TIREE RWY 05 562739N 0065554W - 562803N 0065634W - 562848N 0065506W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562957N 0065209W to 562824N 0065426W - 562739N 0065554W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU601C TIREE RWY 23 563213N 0064828W - 563149N 0064748W - 563106N 0064912W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562957N 0065209W to 563130N 0064952W - 563213N 0064828W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU601D TIREE RWY 11 563040N 0065734W - 563111N 0065716W - 563051N 0065522W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562957N 0065209W to 563021N 0065541W - 563040N 0065734W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU601E TIREE RWY 29 562928N 0064712W - 562857N 0064730W - 562911N 0064849W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562957N 0065209W to 562942N 0064834W - 562928N 0064712W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU602A COLL A circle, 2 NM radius, centred at 563607N 0063704W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU603A COLONSAY A circle, 2 NM radius, centred at 560327N 0061435W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU604A OBAN A circle, 2 NM radius, centred at 562749N 0052400W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU604B OBAN RWY 01 562451N 0052402W - 562454N 0052500W - 562553N 0052449W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562749N 0052400W to 562550N 0052351W - 562451N 0052402W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU604C OBAN RWY 19 563046N 0052358W - 563043N 0052300W - 562946N 0052310W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562749N 0052400W to 562949N 0052408W - 563046N 0052358W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU605A PERTH/SCONE A circle, 2 NM radius, centred at 562628N 0032226W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU605B PERTH/SCONE RWY 03 562346N 0032431W - 562401N 0032522W - 562451N 0032433W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562628N 0032226W to 562436N 0032342W - 562346N 0032431W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU605C PERTH/SCONE RWY 21 562910N 0032021W - 562855N 0031930W - 562805N 0032019W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562628N 0032226W to 562820N 0032110W - 562910N 0032021W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU605D PERTH/SCONE RWY 09 562554N 0032720W - 562627N 0032721W - 562628N 0032602W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562628N 0032226W to 562556N 0032554W - 562554N 0032720W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU605E PERTH/SCONE RWY 27 562637N 0031711W - 562604N 0031709W - 562603N 0031855W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562628N 0032226W to 562635N 0031850W - 562637N 0031711W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU605F PERTH/SCONE RWY 15 562844N 0032509W - 562900N 0032418W - 562821N 0032337W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562628N 0032226W to 562806N 0032429W - 562844N 0032509W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU605G PERTH/SCONE RWY 33 562404N 0031904W - 562348N 0031954W - 562441N 0032050W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562628N 0032226W to 562459N 0032002W - 562404N 0031904W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU606A DUNDEE A circle, 2 NM radius, centred at 562709N 0030133W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU606B DUNDEE RWY 09 562654N 0030706W - 562726N 0030705W - 562726N 0030507W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562709N 0030133W to 562654N 0030507W - 562654N 0030706W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU606C DUNDEE RWY 27 562723N 0025600W - 562651N 0025600W - 562651N 0025759W thence anti-clockwise by the arc of a circle radius 2 NM centred on 562709N 0030133W to 562724N 0025758W - 562723N 0025600W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU607A LEUCHARS A circle, 2.5 NM radius, centred at 562230N 0025132W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU607B LEUCHARS RWY 04 561957N 0025452W - 562017N 0025539W - 562050N 0025453W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 562230N 0025132W to 562028N 0025410W - 561957N 0025452W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU607C LEUCHARS RWY 22 562509N 0024905W - 562449N 0024819W - 562428N 0024847W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 562230N 0025132W to 562445N 0024937W - 562509N 0024905W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU607D LEUCHARS RWY 08 562145N 0025723W - 562217N 0025731W - 562224N 0025601W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 562230N 0025132W to 562152N 0025553W - 562145N 0025723W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU607E LEUCHARS RWY 26 562314N 0024541W - 562242N 0024532W - 562235N 0024702W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 562230N 0025132W to 562307N 0024710W - 562314N 0024541W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU701A BARRA A circle, 2 NM radius, centred at 570122N 0072635W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU701B BARRA RWY 07 570009N 0073107W - 570038N 0073131W - 570058N 0073010W thence anti-clockwise by the arc of a circle radius 2 NM centred on 570122N 0072635W to 570027N 0072950W - 570009N 0073107W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU701C BARRA RWY 25 570300N 0072146W - 570230N 0072122W - 570204N 0072310W thence anti-clockwise by the arc of a circle radius 2 NM centred on 570122N 0072635W to 570233N 0072338W - 570300N 0072146W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU701D BARRA RWY 11 570143N 0073151W - 570214N 0073140W - 570204N 0073000W thence anti-clockwise by the arc of a circle radius 2 NM centred on 570122N 0072635W to 570133N 0073014W - 570143N 0073151W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU701E BARRA RWY 29 570111N 0072125W - 570039N 0072136W - 570049N 0072304W thence anti-clockwise by the arc of a circle radius 2 NM centred on 570122N 0072635W to 570121N 0072255W - 570111N 0072125W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU701F BARRA RWY 15 570324N 0073025W - 570345N 0072940W - 570303N 0072834W thence anti-clockwise by the arc of a circle radius 2 NM centred on 570122N 0072635W to 570242N 0072919W - 570324N 0073025W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU701G BARRA RWY 33 565921N 0072247W - 565900N 0072332W - 565941N 0072436W thence anti-clockwise by the arc of a circle radius 2 NM centred on 570122N 0072635W to 570002N 0072351W - 565921N 0072247W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU702A BENBECULA A circle, 2 NM radius, centred at 572850N 0072150W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU702B BENBECULA RWY 06 572652N 0072615W - 572719N 0072649W - 572756N 0072509W thence anti-clockwise by the arc of a circle radius 2 NM centred on 572850N 0072150W to 572730N 0072435W - 572652N 0072615W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU702C BENBECULA RWY 24 573054N 0071710W - 573027N 0071636W - 572944N 0071832W thence anti-clockwise by the arc of a circle radius 2 NM centred on 572850N 0072150W to 573011N 0071906W - 573054N 0071710W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU703A INVERNESS A circle, 2.5 NM radius, centred at 573233N 0040251W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU703B INVERNESS RWY 05 573017N 0040700W - 573042N 0040739W - 573108N 0040641W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 573233N 0040251W to 573044N 0040602W - 573017N 0040700W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU703C INVERNESS RWY 23 573450N 0035839W - 573426N 0035800W - 573357N 0035901W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 573233N 0040251W to 573422N 0035940W - 573450N 0035839W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU703D INVERNESS RWY 11 573320N 0040829W - 573350N 0040809W - 573337N 0040702W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 573233N 0040251W to 573307N 0040722W - 573320N 0040829W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU703E INVERNESS RWY 29 573154N 0035803W - 573124N 0035823W - 573127N 0035841W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 573233N 0040251W to 573158N 0035821W - 573154N 0035803W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU705A LOSSIEMOUTH A circle, 2.5 NM radius, centred at 574224N 0032016W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU705B LOSSIEMOUTH RWY 05 573945N 0032419W - 574007N 0032502W - 574048N 0032350W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 574224N 0032016W to 574025N 0032307W - 573945N 0032419W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU705C LOSSIEMOUTH RWY 23 574503N 0031614W - 574441N 0031530W - 574400N 0031642W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 574224N 0032016W to 574423N 0031726W - 574503N 0031614W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU705D LOSSIEMOUTH RWY 10 574228N 0032535W - 574300N 0032529W - 574258N 0032449W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 574224N 0032016W to 574225N 0032456W - 574228N 0032535W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU705E LOSSIEMOUTH RWY 28 574217N 0031343W - 574145N 0031350W - 574152N 0031543W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 574224N 0032016W to 574224N 0031537W - 574217N 0031343W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details, see UK MIL AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU706A ABERDEEN/DYCE A circle, 2.5 NM radius, centred at 571209N 0021153W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU706B ABERDEEN/DYCE RWY 05 571012N 0021521W - 571035N 0021602W - 571046N 0021542W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 571209N 0021153W to 571021N 0021503W - 571012N 0021521W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU706C ABERDEEN/DYCE RWY 23 571428N 0020830W - 571405N 0020749W - 571347N 0020824W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 571209N 0021153W to 571409N 0020908W - 571428N 0020830W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	**2**	**3**
EGRU706D ABERDEEN/DYCE RWY 14 571403N 0021541W - 571424N 0021456W - 571410N 0021434W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 571209N 0021153W to 571349N 0021518W - 571403N 0021541W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU706E ABERDEEN/DYCE RWY 32 571005N 0020803W - 570944N 0020848W - 571004N 0020920W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 571209N 0021153W to 571025N 0020835W - 571005N 0020803W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU706F ABERDEEN/DYCE RWY 16 571502N 0021434W - 571514N 0021338W - 571433N 0021308W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 571209N 0021153W to 571421N 0021403W - 571502N 0021434W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU706G ABERDEEN/DYCE RWY 34 570915N 0020914W - 570903N 0021009W - 570945N 0021039W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 571209N 0021153W to 570957N 0020944W - 570915N 0020914W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU706I ABERDEEN/DYCE RWY 36 570935N 0021131W - 570935N 0021231W - 570941N 0021231W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 571209N 0021153W to 570940N 0021131W - 570935N 0021131W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU801A STORNOWAY A circle, 2.5 NM radius, centred at 581256N 0061952W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by Stornoway Air Traffic Service unit. For contact details and opening hours see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU801B STORNOWAY RWY 06 581108N 0062422W - 581136N 0062453W - 581150N 0062406W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 581256N 0061952W to 581123N 0062333W - 581108N 0062422W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by Stornoway Air Traffic Service unit. For contact details and opening hours see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU801C STORNOWAY RWY 24 581434N 0061510W - 581406N 0061439W - 581351N 0061528W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 581256N 0061952W to 581420N 0061557W - 581434N 0061510W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by Stornoway Air Traffic Service unit. For contact details and opening hours see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU801D STORNOWAY RWY 18 581607N 0062059W - 581610N 0061958W - 581526N 0061949W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 581256N 0061952W to 581523N 0062050W - 581607N 0062059W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by Stornoway Air Traffic Service unit. For contact details and opening hours see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU801E STORNOWAY RWY 36 580941N 0061844W - 580938N 0061945W - 581027N 0061954W thence anti-clockwise by the arc of a circle radius 2.5 NM centred on 581256N 0061952W to 581030N 0061853W - 580941N 0061844W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by Stornoway Air Traffic Service unit. For contact details and opening hours see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU802A WICK A circle, 2 NM radius, centred at 582732N 0030535W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU802B WICK RWY 13 582909N 0031033W - 582935N 0030956W - 582856N 0030818W thence anti-clockwise by the arc of a circle radius 2 NM centred on 582732N 0030535W to 582830N 0030855W - 582909N 0031033W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU802C WICK RWY 31 582555N 0030040W - 582529N 0030117W - 582608N 0030253W thence anti-clockwise by the arc of a circle radius 2 NM centred on 582732N 0030535W to 582633N 0030216W - 582555N 0030040W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU803A KIRKWALL A circle, 2 NM radius, centred at 585729N 0025402W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by ATC. ATC must be contacted during operational hours with a minimum of 24 hours notice provided prior to the unmanned aircraft flight within the FRZ. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU803B KIRKWALL RWY 09 585704N 0025947W - 585737N 0025950W - 585740N 0025753W thence anti-clockwise by the arc of a circle radius 2 NM centred on 585729N 0025402W to 585707N 0025750W - 585704N 0025947W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by ATC. ATC must be contacted during operational hours with a minimum of 24 hours notice provided prior to the unmanned aircraft flight within the FRZ. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU803C KIRKWALL RWY 27 585753N 0024808W - 585721N 0024806W - 585718N 0025011W thence anti-clockwise by the arc of a circle radius 2 NM centred on 585729N 0025402W to 585750N 0025014W - 585753N 0024808W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by ATC. ATC must be contacted during operational hours with a minimum of 24 hours notice provided prior to the unmanned aircraft flight within the FRZ. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU803D KIRKWALL RWY 14 585932N 0025817W - 585953N 0025729W - 585907N 0025615W thence anti-clockwise by the arc of a circle radius 2 NM centred on 585729N 0025402W to 585845N 0025701W - 585932N 0025817W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by ATC. ATC must be contacted during operational hours with a minimum of 24 hours notice provided prior to the unmanned aircraft flight within the FRZ. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU803E KIRKWALL RWY 32 585530N 0025028W - 585509N 0025116W - 585544N 0025211W thence anti-clockwise by the arc of a circle radius 2 NM centred on 585729N 0025402W to 585603N 0025121W - 585530N 0025028W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by ATC. ATC must be contacted during operational hours with a minimum of 24 hours notice provided prior to the unmanned aircraft flight within the FRZ. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2.
EGRU901A TRESCO A circle, 2 NM radius, centred at 495644N 0061955W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the heliport operator. For contact details see AIP, Part 3 - Heliports, Section AD 3.2
EGRU902A SCILLY ISLES/ST MARY'S A circle, 2 NM radius, centred at 495448N 0061730W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU902B SCILLY ISLES/ST MARY'S RWY 09 495423N 0062152W - 495456N 0062155W - 495458N 0062035W thence anti-clockwise by the arc of a circle radius 2 NM centred on 495448N 0061730W to 495426N 0062033W - 495423N 0062152W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU902C SCILLY ISLES/ST MARY'S RWY 27 495513N 0061309W - 495441N 0061307W - 495438N 0061425W thence anti-clockwise by the arc of a circle radius 2 NM centred on 495448N 0061730W to 495510N 0061428W - 495513N 0061309W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU902D SCILLY ISLES/ST MARY'S RWY 14 495647N 0062042W - 495709N 0062004W - 495629N 0061911W thence anti-clockwise by the arc of a circle radius 2 NM centred on 495448N 0061730W to 495607N 0061949W - 495647N 0062042W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU902E SCILLY ISLES/ST MARY'S RWY 32 495248N 0061419W - 495227N 0061457W - 495307N 0061550W thence anti-clockwise by the arc of a circle radius 2 NM centred on 495448N 0061730W to 495328N 0061512W - 495248N 0061419W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU903A EDAY A circle, 2 NM radius, centred at 591125N 0024621W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU904A STRONSAY A circle, 2 NM radius, centred at 590919N 0023830W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU905A SANDAY A circle, 2 NM radius, centred at 591501N 0023430W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU906A NORTH RONALDSAY A circle, 2 NM radius, centred at 592203N 0022605W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU907A FAIR ISLE A circle, 2 NM radius, centred at 593205N 0013743W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU908A SUMBURGH A circle, 2 NM radius, centred at 595253N 0011738W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit. ATC must be contacted during opening hours and informed of flights 24 hours in advance of operation. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU908B SUMBURGH RWY 06 595040N 0012125W - 595106N 0012203W - 595137N 0012040W thence anti-clockwise by the arc of a circle radius 2 NM centred on 595253N 0011738W to 595114N 0011952W - 595040N 0012125W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit. ATC must be contacted during opening hours and informed of flights 24 hours in advance of operation. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU908C SUMBURGH RWY 24 595429N 0011258W - 595403N 0011220W - 595329N 0011351W thence anti-clockwise by the arc of a circle radius 2 NM centred on 595253N 0011738W to 595359N 0011419W - 595429N 0011258W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit. ATC must be contacted during opening hours and informed of flights 24 hours in advance of operation. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU908D SUMBURGH RWY 09 595217N 0012335W - 595249N 0012342W - 595256N 0012136W thence anti-clockwise by the arc of a circle radius 2 NM centred on 595253N 0011738W to 595224N 0012129W - 595217N 0012335W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit. ATC must be contacted during opening hours and informed of flights 24 hours in advance of operation. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU908E SUMBURGH RWY 27 595330N 0011140W - 595258N 0011133W - 595251N 0011340W thence anti-clockwise by the arc of a circle radius 2 NM centred on 595253N 0011738W to 595323N 0011347W - 595330N 0011140W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit. ATC must be contacted during opening hours and informed of flights 24 hours in advance of operation. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2

ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS (continued)

Identification and Name Lateral Limits	Upper Limit Lower Limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
EGRU908F SUMBURGH RWY 15 595450N 0012132W - 595509N 0012041W - 595434N 0011948W thence anti-clockwise by the arc of a circle radius 2 NM centred on 595253N 0011738W to 595412N 0012037W - 595450N 0012132W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit. ATC must be contacted during opening hours and informed of flights 24 hours in advance of operation. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU908G SUMBURGH RWY 33 595022N 0011337W - 595003N 0011429W - 595104N 0011559W thence anti-clockwise by the arc of a circle radius 2 NM centred on 595253N 0011738W to 595122N 0011504W - 595022N 0011337W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit. ATC must be contacted during opening hours and informed of flights 24 hours in advance of operation. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU909A WESTRAY A circle, 2 NM radius, centred at 592100N 0025700W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU910A PAPA WESTRAY A circle, 2 NM radius, centred at 592103N 0025401W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. For contact details see AIP, Part 3 - Aerodromes, Section AD 2.2
EGRU911 SAXAVORD A circle, 2.7 NM radius, centred at 604906N 0004612W	Upper limit: 2000 FT AGL Lower limit: SFC	FRZ Active H24. Unmanned aircraft flight not permitted unless permission has been granted by the relevant Air Traffic Service unit or aerodrome operator. Contact: SaxaVord Range Operations, Tel: 01479-782040, email: rangeops@shetlandspacecentre.com.

Airspace Restrictions - Unmanned Aircraft Systems (UAS)

Unless otherwise stated either in the remarks section or associated SI the Navigational restrictions listed above with an identification which starts with "EGD", "EGP" or "EGR" are applicable to **both** manned **and** unmanned aircraft systems. Restrictions listed above with an identification which starts with "EGRU" are applicable to **Unmanned Aircraft Systems only**.

Unmanned Aircraft Systems (UAS) - Data File

To satisfy the requirement for the provision of a dataset of UAS Airspace Restrictions an electronic file is available by selecting the UAS Airspace Restrictions File (ENR 5.1) link from the list available on the current IAIP website (updated each AIRAC).

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ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
AIRBORNE SURVEILLANCE AND CONTROL (ASAC) TRAINING AREA 513400N 0043000W - 510200N 0043000W - 510119N 0042943W - southwest along the coast to 502358N 0050848W - 502400N 0050900W - 501300N 0044800W - 501305N 0044756W - then east along the coast to 503659N 0021309W - 503700N 0021300W - 512200N 0021300W - 512700N 0032700W - 513250N 0032500W - 514500N 0040000W - 513400N 0043000W	Upper limit: FL240 Lower limit: 2000 FT ALT	Activity: Air Intercepts, Air Combat Manoeuvring activity will take place in this designated area throughout the Bristol Channel, South West Approaches and the Southwest Peninsula of the UK. Service: The aircraft will, wherever possible, be in receipt of a radar service from the most suitable Air Traffic Control Radar Unit. However, when conducting tactical training in the Southwest Approaches, aircraft will normally be operating independently beyond and below land-based radar coverage. Advisory Measures: Details of aircraft operations may be obtained on request from Culdrose Approach on 282.575 MHz or 134.055. Sponsor: 824 Naval Air Squadron, RNAS Culdrose, Tel: 01326-552740. Remarks: Royal Navy ASaC Training Area in the Lundy, Bristol Channel and South West Approaches (SWAPPS) areas. The activity will remain clear of Controlled Airspace, active Danger Areas, Aerodrome Traffic Zones and Military Aerodrome Traffic Zones; unless cleared by, or under the control of, the appropriate authority. RN helicopters are permitted to operate below 3000 FT in IMC once clear of the coast and released by Air Traffic Control. Mode 3/A codes 3700-3707 will be utilised for RN ASaC Training. See Chart ENR 6-17 ROYAL NAVY AIRBORNE SURVEILLANCE and CONTROL (ASaC) TRAINING AREA. This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure. Hours: Activated by NOTAM. Mon-Fri (excluding Bank Holidays). Times will be notified on a weekly basis by NOTAM.
MTA EAST ANGLIAN (EAMTA HIGH) 525836N 0003322W - 524349N 0014015E - 523621N 0014347E - 522528N 0011245E - 522624N 0000434W - 525836N 0003322W	Upper limit: FL660 Lower limit: FL285	AMC - Manageable. Because of the nature of the military activity within the East Anglian and North Wales MTAs, no Air Traffic Services can normally be provided within this airspace during their periods of activation. For exemptions, see ENR 1.1, paragraph 1.6.3.5. Remarks: Penetrating routes: P5, P144 and UM185. Adjacent routes: L603, L613, M16, N866, P155 and UP6. Hours: Activated by NOTAM.
MTA EAST ANGLIAN (EAMTA LOW) 525836N 0003322W - 524349N 0014015E - 523621N 0014347E - 522528N 0011245E - 522624N 0000434W - 525836N 0003322W	Upper limit: FL285 Lower limit: FL245	AMC - Manageable. Because of the nature of the military activity within the East Anglian and North Wales MTAs, no Air Traffic Services can normally be provided within this airspace during their periods of activation. For exemptions, see ENR 1.1, paragraph 1.6.3.5. Remarks: Penetrating routes: P5, P144 and UM185. Adjacent routes: L603, L613, M16, N866, P155 and UP6. Hours: Activated by NOTAM.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
MTA NORTH WALES (NWMTA - NORTH HIGH) 531810N 0050753W - 531505N 0034316W - 530603N 0032604W - 520911N 0033007W - 531234N 0052117W - 531810N 0050753W	Upper limit: FL660 Lower limit: FL285	AMC - Manageable. Because of the nature of the military activity within the East Anglian and North Wales MTAs, no Air Traffic Services can normally be provided within this airspace during their periods of activation. For exemptions, see ENR 1.1, paragraph 1.6.3.5. Remarks: Adjacent Routes: L15, Q36, UL975 and UN864. Traversing Route: Those sections of UY124 within the bounds of NWMTA (North High) may only be used outside the NWMTA notified hours of activity. Hours: Activated by NOTAM.
MTA NORTH WALES (NWMTA - NORTH HIGH) FBZ 532314N 0051018W - 531957N 0033954W - 530903N 0031910W - 530658N 0031742W - 520730N 0032207W - 520506N 0032453W - 520400N 0032919W - 520434N 0033401W - 530939N 0052817W - 531145N 0052942W - 531401N 0052928W - 531600N 0052737W - 532314N 0051018W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
MTA NORTH WALES (NWMTA - NORTH LOW) 531810N 0050753W - 531505N 0034316W - 530603N 0032604W - 520911N 0033007W - 531234N 0052117W - 531810N 0050753W	Upper limit: FL285 Lower limit: FL195	AMC - Manageable. Because of the nature of the military activity within the East Anglian and North Wales MTAs, no Air Traffic Services can normally be provided within this airspace during their periods of activation. For exemptions, see ENR 1.1, paragraph 1.6.3.5. Remarks: Adjacent Routes: L15, L18, P16, Q36, (U)L975 and (U)N864. Traversing Route: Those sections of (U)Y124 and Y125 within the bounds of NWMTA (North Low) may only be used outside the NWMTA notified hours of activity. Hours: Activated by NOTAM.
MTA NORTH WALES (NWMTA - NORTH LOW) FBZ 532314N 0051018W - 531957N 0033954W - 530903N 0031910W - 530658N 0031742W - 520730N 0032207W - 520506N 0032453W - 520400N 0032919W - 520434N 0033401W - 530939N 0052817W - 531145N 0052942W - 531401N 0052928W - 531600N 0052737W - 532314N 0051018W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
MTA NORTH WALES (NWMTA - SOUTH HIGH) 531234N 0052117W - 520911N 0033007W - 520149N 0033037W - 520911N 0043030W - 523827N 0051555W - 524529N 0052146W - 531224N 0052141W - 531234N 0052117W	Upper limit: FL660 Lower limit: FL285	AMC - Manageable. Because of the nature of the military activity within the East Anglian and North Wales MTAs, no Air Traffic Services can normally be provided within this airspace during their periods of activation. For exemptions, see ENR 1.1, paragraph 1.6.3.5. Remarks: Adjacent routes: UY124. The section of L18 between LANON and LIPGO that traverses the NWMTA (South) may only be used outside the hours of the NWMTA (South) activity, or at short notice as directed by ATC, when operations in EGD201B, EGD201C, EGD201D, EGD201H and EGD201J terminate earlier than published, and no military operations are taking place within the NWMTA (South). The authority for the tactical use of L18 in these circumstances is vested in the Military Airspace Manager at Swanwick (Mil). Hours: Activated by NOTAM.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
MTA NORTH WALES (NWMTA - SOUTH HIGH) FBZ 531740N 0052338W - 531726N 0051749W - 521202N 0032313W - 521002N 0032156W - 520030N 0032236W - 515833N 0032414W - 515712N 0032703W - 515642N 0033031W - 520435N 0043437W - 523532N 0052241W - 524417N 0053000W - 531338N 0053000W - 531548N 0052807W - 531740N 0052338W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.
MTA NORTH WALES (NWMTA - SOUTH LOW) 531234N 0052117W - 520911N 0033007W - 520149N 0033037W - 520911N 0043030W - 523827N 0051555W - 524529N 0052146W - 531224N 0052141W - 531234N 0052117W	Upper limit: FL285 Lower limit: FL195	AMC - Manageable. Because of the nature of the military activity within the East Anglian and North Wales MTAs, no Air Traffic Services can normally be provided within this airspace during their periods of activation. For exemptions, see ENR 1.1, paragraph 1.6.3.5. Remarks: Adjacent routes: M17, P16 and (U)Y124. The section of L18 between LANON and LIPGO that traverses the NWMTA (South) may only be used outside the hours of the NWMTA (South) activity, or at short notice as directed by ATC, when operations in EGD201B, EGD201C, EGD201D, EGD201H and EGD201J terminate earlier than published, and no military operations are taking place within the NWMTA (South). The authority for the tactical use of L18 in these circumstances is vested in the Military Airspace Manager at Swanwick (Mil). Hours: Activated by NOTAM.
MTA NORTH WALES (NWMTA - SOUTH LOW) FBZ 531740N 0052338W - 531726N 0051749W - 521202N 0032313W - 521002N 0032156W - 520030N 0032236W - 515833N 0032414W - 515712N 0032703W - 515642N 0033031W - 520435N 0043437W - 523532N 0052241W - 524417N 0053000W - 531338N 0053000W - 531548N 0052807W - 531740N 0052338W	Upper limit: As Per AUP / UUP Lower limit: As Per AUP / UUP	For IFR flight planning purposes only.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
NAVIGATIONAL FLYING TRAINING SOUTH WEST APPROACHES 485000N 0080000W - 510000N 0080000W - 515459N 0061831W - 515500N 0052000W - 515410N 0051854W - then following the coastline to 513950N 0050440W - 513937N 0050443W following the line of latitude to - 513937N 0051830W - 513610N 0052408W thence anti-clockwise by the arc of a circle radius 18.1 NM centred on 514213N 0045647W to 512430N 0050220W - 512819N 0045543W thence anti-clockwise by the arc of a circle radius 11.34 NM centred on 513815N 0044700W to 513345N 0043019W - 513619N 0043800W - 513629N 0043752W - 513510N 0042400W - 514001N 0042400W thence anti-clockwise by the arc of a circle radius 3.5 NM centred on 514313N 0042144W to 514020N 0041833W - 514012N 0041749W - then following the coastline to 512942N 0034402W - 512900N 0034500W - 511500N 0034700W - 511447N 0034658W - then following the coastline to 500956N 0054002W - 501000N 0054000W - 500400N 0060000W - 495400N 0060000W following the line of latitude to - 495400N 0051200W - 492525N 0051200W - 485000N 0080000W	Upper limit: FL120 Lower limit: 500 FT ALT	Service: The aircraft will, wherever possible, be in receipt of a radar service from the most suitable Air Traffic Control Radar Unit. However, when conducting tactical training in the Southwest Approaches, aircraft will normally be operating independently beyond and below land-based radar coverage. Advisory Measures: Details of aircraft operations may be obtained on request from Culdrose Approach on 282.575 MHz or 134.055. Sponsor: 750 Sqn, RNAS Culdrose Tel: 01326-574121 Ext 7302/ 7267. Remarks: Four aircraft, operating in VMC or IMC at all levels. At times, due to the training nature and profiles of the exercises, the aircraft may be unable to comply with the Rules of the Air for avoiding collisions and/or the Semi-circular Rule. EGD064A, EGD064B and EGD064C (SOUTH WEST COMPLEX - 10,000 FT AMSL to FL 660) - The activation of EGD064A, EGD064B and EGD064C whose base level may occasionally be reduced to 5000 FT AMSL, will be promulgated by NOTAM, RN Navigation Flying Training will be conducted clear of EGD064A, EGD064B and EGD064C. Aircraft will operate on the Regional Pressure Setting or Standard Pressure Setting as appropriate. Note: Aircraft will operate over the sea and remain clear of controlled airspace unless under the control of appropriate authority. See Chart ENR 6-16 ROYAL NAVAL NAVIGATIONAL TRAINING FLYING - SOUTH WEST APPROACHES. This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure. Hours: Mon-Fri 0700-1900 (0600-1800), other times by NOTAM.
TRA 001 515341N 0053338W - 515254N 0051413W - 514039N 0033449W - 513937N 0032926W - 502459N 0034351W - 501648N 0034450W following the line of latitude to - 501648N 0033332W - 494801N 0031025W - 485000N 0080000W - 510000N 0080000W - 510748N 0074601W - 504741N 0072114W - 510446N 0065224W - 512238N 0071903W - 512528N 0071351W - 512400N 0065305W - 514034N 0060027W - 515234N 0060431W - 515341N 0053338W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 002 512448N 0025147W - 512331N 0023410W - 512250N 0023406W - 511859N 0013913W - 511726N 0012843W - 511617N 0012057W - 510123N 0012711W - 504123N 0031845W - 511010N 0031341W - 511505N 0025335W - 512448N 0025147W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700), Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 003 531755N 0010606W - 530618N 0000428W - 531232N 0000108W - 525820N 0020321E - 525206N 0023000E - 524010N 0023000E - 523704N 0025356E - 522819N 0024644E - 522842N 0023414E - 523412N 0015410E - 522510N 0012816E - 522631N 0002729W - 530016N 0010043W - 531755N 0010606W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1800 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
TRA 004 550806N 0043002W - 550603N 0041419W - 543019N 0032659W - 534103N 0031910W - 534150N 0033653W - 535358N 0040608W - 535522N 0040649W - 540248N 0035759W - 541618N 0043113W - 543138N 0050836W - 545121N 0050119W - 550250N 0045120W - 550806N 0043002W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 005 551735N 0025427W - 551724N 0024532W - 550049N 0015445W - 542156N 0020653W - 542156N 0021546W - 544628N 0023625W - 551735N 0025427W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0900-1700 (0800-1600). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 006 554053N 0021314E - 541108N 0032313E - 534412N 0030000E - 531608N 0030000E - 532000N 0023000E - 531139N 0023000E - 530815N 0020534E - 532204N 0000431E - 534114N 0010214W - 534312N 0011636W - 541152N 0014544W - 550000N 0013017W - 550000N 0004703W - 551710N 0001428E - 554053N 0021314E	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 007A 571946N 0014810W - 571437N 0020959W - 562341N 0031445W - 561400N 0033259W - 560700N 0032938W - 560700N 0025608W - 560008N 0024849W - 553805N 0025111W - 552606N 0023655W - 550637N 0013731W - 550218N 0014154W - 550101N 0012957W - 550000N 0013017W - 550000N 0005916W - 555000N 0011800W - 561750N 0012507W - 571946N 0014810W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Remarks: (1) TRA 007A does not include controlled airspace within AWY P18 during the published hours of P18 (see ENR 3.1). (2) TRA 007A does not include airspace within AWY N864 during weekend promulgated hours 0001 Sat to 2359 Sun. During this period, between PIPAR and ASNUD, the western extremity of TRA 007A reverts to the eastern boundary of N864. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 007B 574850N 0002223E - 571946N 0014810W - 561750N 0012507W - 555000N 0011800W - 550000N 0005916W - 550000N 0004703W - 551710N 0001428E - 554053N 0021314E - 574850N 0002223E	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 008A 572337N 0041404W - 575000N 0081500W - 595000N 0060200W - 594812N 0044730W - 591638N 0043000W - 573246N 0041254W - 573147N 0041203W - 572337N 0041404W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRA 008B 575757N 0001440E - 573708N 0012004W - 572758N 0011242W - 571542N 0020528W - 571940N 0020701W - 571838N 0021602W - 572130N 0022334W - 562948N 0032900W - 562000N 0034746W - 561400N 0040926W - 561235N 0041258W - 570638N 0035943W - 570621N 0035605W - 572144N 0035211W - 572337N 0041404W - 573147N 0041203W - 573246N 0041254W - 591638N 0043000W - 594812N 0044730W - 594000N 0013000W - 575757N 0001440E	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
TRA 008C 552543N 0050000W - 553039N 0053655W - 554803N 0074000W - 564200N 0081500W - 575000N 0081500W - 572337N 0041404W - 572144N 0035211W - 570621N 0035605W - 570638N 0035943W - 570758N 0041754W - 560432N 0043253W - 560127N 0044028W - 560727N 0050308W - 561807N 0054423W - 564819N 0062031W - 564248N 0063539W - 563408N 0064847W - 562501N 0065609W - 560939N 0055411W - 555825N 0051042W - 555356N 0045343W - 555000N 0050000W - 552543N 0050000W	Upper limit: FL245 Lower limit: FL195	Access requirements for civil aircraft are specified in ENR 1.1, paragraph 5.1.5. Hours: Mon-Fri 0830-1700 (0730-1700). Excluding English Public Holidays. TRA may be activated at other times by NOTAM.
TRAG ABOYNE AREA 571700N 0025300W - 571216N 0023532W - 565301N 0030005W - 565730N 0031500W - 571700N 0025300W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG NORTHERN IRELAND AREA 551010N 0065625W - 551010N 0064000W - 545000N 0064000W - 545000N 0071600W - 545617N 0071600W - 551010N 0065625W	Upper limit: FL240 Lower limit: FL195	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG NORTHUMBRIA NORTH AREA 560600N 0023914W - 555500N 0020216W - 554600N 0015854W - 554600N 0024128W - 560600N 0023914W	Upper limit: FL240 Lower limit: FL195	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG NORTHUMBRIA SOUTH AREA 554600N 0024128W - 554600N 0015854W - 552644N 0015147W - 551803N 0015434W - 552951N 0023046W - 553928N 0024211W - 554600N 0024128W	Upper limit: FL240 Lower limit: FL195	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG PORTMOAK AREA 562926N 0034253W - 562223N 0032624W - 561200N 0032855W - 561200N 0040404W - 562144N 0040142W - 562408N 0035258W - 562926N 0034253W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG SCOTTISH UPPER AREA (NORTH) 574000N 0034148W - 574000N 0025518W - 572852N 0022517W - 571151N 0024717W - 571801N 0034732W - 574000N 0034148W	Upper limit: FL270 Lower limit: FL240	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
TRAG SCOTTISH LOWER AREA (NORTH) 574000N 0034148W - 574000N 0025518W - 572852N 0022517W - 565119N 0031318W - 570514N 0035049W - 574000N 0034148W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG SCOTTISH UPPER AREA (SOUTH) 571801N 0034732W - 571151N 0024717W - 565119N 0031318W - 570514N 0035049W - 571801N 0034732W	Upper limit: UNL Lower limit: FL240	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG SCOTTISH LOWER AREA (SOUTH) 570514N 0035049W - 565119N 0031318W - 563302N 0033557W - 562408N 0035258W - 562144N 0040142W - 570514N 0035049W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG SPADEADAM UPPER AREA 550642N 0023639W - 545902N 0020925W - 544416N 0021359W - 550642N 0023639W	Upper limit: UNL Lower limit: FL240	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG SPADEADAM LOWER AREA 550251N 0021822W - 545815N 0020423W - 543952N 0021005W - 550251N 0021822W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH UPPER AREA A 531546N 0040000W - 530000N 0040000W - 530000N 0043000W - 531655N 0043000W - 531546N 0040000W	Upper limit: UNL Lower limit: FL240	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH LOWER AREA A 531655N 0043000W - 531546N 0040000W - 530000N 0040000W - 530000N 0043000W - 531655N 0043000W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH UPPER AREA B 531546N 0040000W - 531505N 0034316W - 530603N 0032604W - 530000N 0032630W - 530000N 0040000W - 531546N 0040000W	Upper limit: UNL Lower limit: FL240	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH LOWER AREA B 531546N 0040000W - 531505N 0034316W - 530603N 0032604W - 530000N 0032630W - 530000N 0040000W - 531546N 0040000W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
TRAG WELSH UPPER AREA C 531505N 0034316W - 531429N 0032929W - 531227N 0032536W - 530603N 0032604W - 531505N 0034316W	Upper limit: UNL Lower limit: FL240	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH LOWER AREA C 531505N 0034316W - 531429N 0032929W - 531227N 0032536W - 530603N 0032604W - 531505N 0034316W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH UPPER AREA D 530000N 0043000W - 530000N 0040000W - 522642N 0040000W - 524356N 0043000W - 530000N 0043000W	Upper limit: UNL Lower limit: FL240	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH LOWER AREA D 530000N 0043000W - 530000N 0040000W - 522642N 0040000W - 524356N 0043000W - 530000N 0043000W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH UPPER AREA E 530000N 0040000W - 530000N 0032630W - 525007N 0032713W - 524220N 0033916W - 523000N 0034007W - 523000N 0040000W - 530000N 0040000W	Upper limit: UNL Lower limit: FL240	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH LOWER AREA E 530000N 0040000W - 530000N 0032630W - 525007N 0032713W - 524220N 0033916W - 523000N 0034007W - 523000N 0040000W - 530000N 0040000W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH UPPER AREA F 525007N 0032713W - 523000N 0032839W - 523000N 0034007W - 524220N 0033916W - 525007N 0032713W	Upper limit: FL270 Lower limit: FL240	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH LOWER AREA F 525007N 0032713W - 523000N 0032839W - 523000N 0034007W - 524220N 0033916W - 525007N 0032713W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
TRAG WELSH UPPER AREA G 523000N 0040000W - 523000N 0032839W - 520911N 0033007W - 522642N 0040000W - 523000N 0040000W	Upper limit: FL270 Lower limit: FL240	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH LOWER AREA G 523000N 0040000W - 523000N 0032839W - 520911N 0033007W - 522642N 0040000W - 523000N 0040000W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG WELSH AREA H 522642N 0040000W - 520911N 0033007W - 520149N 0033037W - 520530N 0040000W - 522642N 0040000W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate this TRA (G) so that NOTAM action can be initiated in accordance with agreed procedures, therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG YORKSHIRE UPPER AREA NORTH 543223N 0012622W - 541026N 0010000W - 540000N 0010000W - 540000N 0012332W - 541207N 0013559W - 543223N 0012622W	Upper limit: UNL Lower limit: FL240	Access requirements for gliders are specified in ENR 1.1, paragraph 1.11. Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG YORKSHIRE LOWER AREA NORTH 543223N 0012622W - 541026N 0010000W - 540000N 0010000W - 540000N 0012332W - 541207N 0013559W - 543223N 0012622W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
TRAG YORKSHIRE LOWER AREA SOUTH 541026N 0010000W - 534637N 0003203W - 535158N 0011521W - 540000N 0012332W - 540000N 0010000W - 541026N 0010000W	Upper limit: FL240 Lower limit: FL195	Note: A minimum notice of 2 hours is required to activate TRA (G), therefore NOTAM notification will normally take place on the day of activation. See ENR 1.1, paragraph 1.11.3 and 1.11.4. Hours: Activated by NOTAM.
AIAA CULDROSE 502400N 0051000W - 501200N 0054700W - 500300N 0054600W - 495400N 0053300W - 495400N 0050930W - 500500N 0045948W - 500924N 0045430W - 501244N 0044659W - 502400N 0051000W	Upper limit: 6000 FT ALT Lower limit: SFC	Remarks: Considerable helicopter and fixed-wing activity. Night operations may be conducted by aircraft using reduced navigation and/or anti-collision lights. Advisory Measures: A LARS is available from Culdrose ATC on 134.055. Hours: Peak activity Mon-Thu 0830-1700 (0730-1600) and Fri 0830-1630 (0730-1530).
AIAA LINCOLNSHIRE 530526N 0000000E - 530219N 0000000E - 525648N 0000949W - 525206N 0000610W - 524900N 0000106E - 524900N 0005730W - 525014N 0005722W - 525121N 0005725W - 525421N 0010006W - 525901N 0010918W - 525943N 0011000W - 531838N 0011000W - 530526N 0000000E	Upper limit: FL130 Lower limit: SFC	Remarks: Considerable military flying training, including in addition to airfield letdown procedures, exercises in practice forced landings, stalling, spinning, aerobatics, steep turns and formation flying. Advisory Measures: Pilots transiting the area are advised to maintain constant vigilance and a LARS is available from: Waddington ATC on 119.505; and Coningsby ATC on 119.205. Hours: Peak activity Mon-Fri 0900-1700 (0800-1600).

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
AIAA OXFORD 515600N 0014900W - 520130N 0011745W - 515745N 0011126W - 514328N 0010000W - 513433N 0010000W - 513423N 0011138W - 513938N 0015510W - 515600N 0014900W	Upper limit: 5000 FT ALT Lower limit: SFC	Remarks: There is intense air activity associated with closely woven civil and military climb out and approach procedures for the many airfields in the vicinity. Pilots flying in this area are advised to keep a constant vigilance particularly during weekdays when military activity is at its peak, and especially in the area 8.5 NM/ 308(T) and 6 NM/145(T) from Oxford aerodrome where aircraft may be holding awaiting clearance to join airways. Advisory Measures: Radar services are available within this area from Brize Norton ATC on 124.280. The attention of pilots is also drawn to the Brize Norton Control Zone. (See ENR 2.1). Hours: Permanently active.
AIAA SHAWBURY 523130N 0030612W - 523702N 0031803W - 525515N 0031726W - 530239N 0030347W - 530445N 0021031W - 525314N 0020227W - 523710N 0021524W - 523212N 0022430W - 523209N 0023708W - 522828N 0024502W - 522828N 0025230W - 523130N 0030612W but excluding Controlled Airspace.	Upper limit: FL70 Lower limit: SFC	Remarks: Intense instrument flying and general handling training by large numbers of helicopters (including initial helicopter pilot training), together with IFR fixed wing airfield approaches and departures by student pilots. Night operations may be conducted using reduced navigation and/or anti-collision lights and Chetwynd is used extensively for military rotary wing operations by RAF Shawbury. Advisory Measures: Pilots are strongly recommended to avoid this area; if this is not possible a LARS is available from Shawbury ATC on 133.155. Hours: Peak activity Mon-Thu 0700-0130 (0600-0030) and Fri 0700-1700 (0600-1600).
AIAA SPADEADAM 551500N 0023951W - 551615N 0022552W - 551054N 0021311W - 550253N 0020705W - 550108N 0021621W - 545100N 0021453W - 544630N 0023635W - 545725N 0023805W - 550000N 0024235W - 550000N 0022752W - 550206N 0021640W - 550417N 0021717W - 550453N 0021743W - 551500N 0023951W	Upper limit: 5500 FT ALT Lower limit: SFC	Remarks: Air activity, associated with the electronic warfare training range EGD510 by military aircraft involving high energy manoeuvres, high speed runs and rapid rate turns. Advisory Measures: Pilots are strongly recommended to avoid the area, if this is not possible, they should utilise the SUA Crossing Service from Spadeadam on 128.725 MHz, the SUA Activity Information Service from Newcastle on 124.380 MHz. Hours: Peak activity Mon-Thu 0900-1700 (0800-1600) and Fri 0900-1600 (0800-1500).
AIAA THE WASH AREA 530900N 0001200E - 530900N 0003300E - 530400N 0004800E - 525835N 0004800E - then along the coastline to 524700N 0002232E - 524000N 0002200E - 525206N 0000610W - 525648N 0000949W - 530900N 0001200E	Upper limit: 3500 FT ALT Lower limit: SFC	Remarks: Because of the holding patterns associated with Danger Area EGD207 special caution is advised in the Wash Area. Advisory Measures: Pilots are strongly recommended to avoid the area. If this is not possible, a LARS should be requested from: Marham ATC on 124.155; Coningsby ATC on 119.205; or Waddington ATC on 119.505. Hours: Peak activity Mon-Thu 0900-1700 (0800-1600) and Fri 0900-1500 (0800-1400).
AIAA VALE OF YORK 541625N 0014418W - 542417N 0012449W - 543328N 0010734W - 543550N 0010048W - then along the coastline to 535600N 0001024W - 534354N 0004000W - 534134N 0010443W - 534312N 0011636W - 541152N 0014544W - 541625N 0014418W	Upper limit: FL190 Lower limit: SFC	Remarks: Considerable military fixed-wing and rotary flying training, including, in addition to airfield letdown procedures, exercises in practice forced landings, stalling, spinning, steep turns and formation flying. Advisory Measures: Pilots transiting the area are advised to maintain constant vigilance and a LARS is available from Leeming ATC on 133.380. Hours: Peak activity Mon-Fri 0900-1700 (0800-1600).

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
AIAA VALLEY 532010N 0034500W - 532315N 0050000W - 531200N 0050000W - 530715N 0045319W - 524500N 0045319W following the line of latitude to - 524500N 0044018W - 523316N 0041200W following the line of latitude to - 523316N 0034500W - 532010N 0034500W	Upper limit: 6000 FT ALT Lower limit: 2000 FT ALT	Remarks: Considerable flying training, including, in addition to airfield arrival and departure procedures, exercises in stalling, spinning, aerobatics, steep turns and formation flying. Advisory Measures: Pilots crossing the area are advised to maintain constant vigilance and to request a radar service from Valley ATC or London Radar. Hours: Peak activity Mon-Thu 0800-1800 (0700-1700) and Fri 0800-1700 (0700-1600).
AIAA YEOVILTON 510900N 0030300W - 511200N 0025100W - 511200N 0021400W - 504400N 0021400W - 504400N 0030300W - 510900N 0030300W	Upper limit: 6000 FT ALT Lower limit: SFC	Remarks: Intensive helicopter instrument flying training. Night operations may be conducted by aircraft using reduced navigation and/or anti-collision lights. Advisory Measures: A LARS is available from Yeovilton ATC on Channel 127.355. Note: For aircraft in transit south of a line east to west through Dorchester, a LARS is available from Plymouth Military Radar on 124.150 MHz but to avoid interference pilots should contact Plymouth Military south of 511000N. Hours: Peak activity Mon-Thu 0830-1700 (0730-1600) and Fri 0830-1600 (0730-1500).
ATA LAKENHEATH NORTH 525500N 0015000E - 524010N 0023000E - 523704N 0025356E - 522819N 0024644E - 522842N 0023414E - 523412N 0015410E - 523245N 0015000E - 525500N 0015000E	Upper limit: FL245 Lower limit: FL60	Autonomous operations are only permitted within ATAs above FL 195 when the overlying TRA is active. Remarks: Intense military air activity. Advisory Measures: Pilots are strongly advised to avoid the area. If this is not possible they should request a service from Swanwick Mil, at least 15 NM range from the edge of the area. Note: Live firing at flares in the sea regularly takes place below the vertical limits of the Aerial Tactics Area under 'Clear Range' procedures. The activity will NOT be subject to NOTAM action. Hours: Peak activity Mon-Thu 0700-2300 (0600-2200) and Fri 0700-1700 (0600-1600).
ATA LAKENHEATH SOUTH 523412N 0015410E - 522842N 0023414E - 522819N 0024644E - 521646N 0023717E - 521447N 0022653E - 521318N 0015241E - 521623N 0015000E - 523245N 0015000E - 523412N 0015410E	Upper limit: FL195 Lower limit: FL60	Remarks: Intense military air activity. Advisory Measures: Pilots are strongly advised to avoid the area. If this is not possible they should request a service from Swanwick Mil, at least 15 NM range from the edge of the area. Hours: Peak activity Mon-Thu 0700-2300 (0600-2200) and Fri 0700-1700 (0600-1600).

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
ATA VALLEY 531810N 0050753W - 531505N 0034316W - 530603N 0032604W - 520153N 0033037W - 520911N 0043030W - 523827N 0051555W - 524529N 0052146W - 531234N 0052117W - 531810N 0050753W	Upper limit: FL660 Lower limit: 6000 FT ALT	Military aircraft are to book in between FL 100 and FL 660. Autonomous operations requiring access to NWMTA airspace above FL 195 are to ensure that the NWMTA is active before entry. Remarks: All CAS is to be avoided. Users are to note that when the NWMTA North Low is not active, ATS Route Y124 may be activated. Intense military air activity, including air combat training manoeuvres and live air-to-air firing at towed targets over the sea. Advisory Measures: Pilots are strongly recommended to avoid the area; if this is not possible they should request a service from RAF Valley ATC or Swanwick Mil, at least 15 NM range from the edge of the area. Note: Live air-to-air firing at towed targets regularly takes place over the sea within the northern stub of EGD201H and EGD201J. Live firing under 'Clear Range' procedures but at least 20 NM out from the coastline, may take place both within and below portions of the Aerial Tactics Area. The activity will not be subject to NOTAM action but times can be obtained from RAF Valley Operations, Tel: 01407-762241 Ext 7404. Hours: Military flying is at its peak between Mon-Thu 0800-1800 (0700-1700); Fri 0800-1700 (0700-1600).
ATA WASH NORTH 533110N 0003300E - 531939N 0014857E - 531115N 0014049E - 531901N 0003300E - 533110N 0003300E	Upper limit: FL245 Lower limit: FL50	Autonomous operations are only permitted within ATAs above FL 195 when the overlying TRA is active. Remarks: Intense military air activity. Advisory Measures: Pilots are strongly advised to avoid the area. If this is not possible they should request a service from Swanwick Mil, at least 15 NM range from the edge of the area. Hours: Military flying is at its peak between 0700 to 2300 Mon to Thu and 0700 to 1700 Fri Winter (Summer 1hr earlier).
ATA WASH SOUTH 531901N 0003300E - 531115N 0014049E - 530000N 0013000E - 530000N 0010000E - 530500N 0003300E - 531901N 0003300E	Upper limit: FL175 Lower limit: FL50	Remarks: Intense military air activity. Advisory Measures: Pilots are strongly advised to avoid the area. If this is not possible they should request a service from Swanwick Mil, at least 15 NM range from the edge of the area. Hours: Military flying is at its peak between 0700 to 2300 Mon to Thu and 0700 to 1700 Fri Winter (Summer 1hr earlier).
ARA BOSCOMBE DOWN 512150N 0021917W - 511859N 0013913W - 511726N 0012843W - 511617N 0012057W - 510417N 0012559W - 510045N 0013054W - 504123N 0031845W - 511010N 0031341W - 511538N 0025120W - 511620N 0023328W thence anti-clockwise by the arc of a circle radius 9 NM centred on 512258N 0024309W to 511826N 0023045W - 511849N 0022009W thence anti-clockwise by the arc of a circle radius 15 NM centred on 512258N 0024309W to 512150N 0021917W but excluding Controlled Airspace.	Upper limit: FL195 Lower limit: FL50	Remarks: Considerable test flight activity. Test flight activity often requires the pilots to fly profiles which limit their ability to manoeuvre their aircraft in compliance with the Rules of the Air. Such flights will receive a radar service from Boscombe Down or Swanwick Military. Advisory Measures: Pilots entering the area are advised to call Boscombe Down on 126.705 to obtain information on test flight activity. Hours: Mon-Fri 0930-1730 (0830-1630).

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
ARA WARTON 543000N 0033559W - 543000N 0031355W - 535747N 0023258W - 534127N 0023240W - 533223N 0025907W - 533213N 0031406W - 535127N 0040000W - 541902N 0040000W - 543000N 0033559W	Upper limit: FL190 Lower limit: FL95	Controlling Authority: Warton Radar, Tel: 01772-852392. Remarks: Considerable test flight activity. Test flight activity often requires the pilots to fly profiles which limit their ability to manoeuvre their aircraft in compliance with the Rules of the Air. Such flights will receive a radar service from Warton. Traffic routing from/to Warton/Blackpool via WAL should expect to be advised to fly via Reporting Point ESTRY, defined as 533952N 0031542W (WAL VOR/DME fix 345/17 NM). This route is designed so as to alleviate the risk of potential confliction with intensive flying training activity associated with RAF Woodvale. Advisory Measures: Pilots entering the area are advised to call Warton on 129.530 MHz to obtain route information and information on test flight activity. Hours: Mon-Thu 0730-1900 (0630-1800) and Fri 0730-1700 (0630-1600).
AARA AREA 01 581200N 0043000W - 562100N 0043000W following the line of latitude to - 562100N 0050500W - 581200N 0050500W - 581200N 0043000W	Upper limit: FL280 Lower limit: FL120	Remarks: A/A TACAN: (R) 55 - (T) 118. See Note 1. Initial Point: 563200N 0043700W. Control Point: 580200N 0043700W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Activated by NOTAM.
AARA AREA 02 591900N 0003100W - 592800N 0000400E - 581300N 0011500E - 580400N 0004100E - 591900N 0003100W	Upper limit: FL290 Lower limit: FL100	Vertical Limits: Occasional notification by NOTAM to FL 350. Remarks: A/A TACAN: (R) 56 - (T) 119. See Note 1. Initial Point: 582000N 0010000E. Control Point: 591700N 0000500E. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Radar Coverage: Limited below FL140. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Permanently available.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
AARA AREA 03 575300N 0005000E - 580100N 0012400E - 562500N 0024600E - 561700N 0021300E - 575300N 0005000E	Upper limit: FL290 Lower limit: FL100	Vertical Limits: Occasional notification by NOTAM to FL 350. Remarks: A/A TACAN: (R) 57 - (T) 120. See Note 1. Initial Point: 563200N 0023200E. Control Point: 575000N 0012600E. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Radar Coverage: Limited below FL145. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Permanently available.
AARA AREA 04 581600N 0000100E - 575800N 0001500E - 573500N 0012900W - 575300N 0014300W - 581600N 0000100E	Upper limit: FL240 Lower limit: FL70	Vertical Limits: Occasional notification by NOTAM to FL 350. Remarks: A/A TACAN: (R) 61 - (T) 124. See Note 1. Initial Point: 574300N 0011200W. Control Point: 575800N 0000400W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Permanently available.
AARA AREA 05 560300N 0001500W - 560200N 0014000E - 554200N 0013900E - 554300N 0001600W - 560300N 0001500W	Upper limit: FL240 Lower limit: FL70	Vertical Limits: Occasional notification by NOTAM to FL 350. Remarks: A/A TACAN: (R) 58 - (T) 121. See Note 1. Initial Point: 554700N 0000300E. Control Point: 554600N 0012100E. Controlling Unit: CRC Boulmer until 17:00 (Local Time). Swanwick (Mil) after 17:00 (Local Time). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Permanently available.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
AARA AREA 06 551600N 0001100E - 544100N 0005300W - 542400N 0002500W - 550000N 0003700E - 551600N 0001100E	Upper limit: FL290 Lower limit: FL100	Vertical Limits: Occasional notification by NOTAM to FL 350. Remarks: A/A TACAN: (R) 58 - (T) 121. See Note 1. Initial Point: 543200N 0002500W. Control Point: 545800N 0002200E. Controlling Unit: CRC Boulmer or Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Permanently available.
AARA AREA 07 552600N 0011600E - 550000N 0025900E - 544200N 0024500E - 550800N 0010200E - 552600N 0011600E	Upper limit: FL290 Lower limit: FL100	Remarks: A/A TACAN: (R) 60 - (T) 123. See Note 1. Initial Point: 550800N 0011900E. Control Point: 544900N 0023100E. Controlling Unit: CRC Boulmer or Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Permanently available.
AARA AREA 08 533600N 0004300E - 532700N 0023000E - 530700N 0022600E - 531600N 0003900E - 533600N 0004300E	Upper limit: FL170 Lower limit: FL70	Remarks: A/A TACAN: (R) 59 - (T) 122. See Note 1. Initial Point: 531800N 0005600E. Control Point: 531200N 0020800E. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Permanently available.
AARA AREA 09 524000N 0015000E - 522100N 0015000E - 522100N 0024000E - 524000N 0025600E - 524000N 0015000E	Upper limit: FL50 Lower limit: 2000 FT ALT	Remarks: Nil. Advisory Measures: Information on activity available from Swanwick (Mil). See Note 1. Hours: Permanently available.
AARA AREA 10 (EAST) 511700N 0022300W - 510000N 0020500W - 502758N 0035844W - 505158N 0035324W - 511700N 0022300W	Upper limit: FL260 Lower limit: FL80	Remarks: A/A TACAN: (R) 57 - (T) 120. See Note 1. Initial Point: 510900N 0023400W. Control Point: 505200N 0034000W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Activated by NOTAM. See Note 4.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
AARA AREA 10 (WEST) 505158N 0035324W - 502758N 0035844W - 493645N 0064343W - 495552N 0065723W - 505158N 0035324W	Upper limit: FL260 Lower limit: FL80	Remarks: A/A TACAN: (R) 57 - (T) 120. See Note 1. Initial Point: 503800N 0042500W. Control Point: 495700N 0064000W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Activated by NOTAM. See Note 4.
AARA AREA 11 502232N 0054025W - 500304N 0053319W - 494159N 0074435W - 500117N 0075231W - 502232N 0054025W	Upper limit: FL260 Lower limit: FL80	Remarks: A/A TACAN: (R) 58 - (T) 121 See Note 1. Initial Point: 501700N 0055500W. Control Point: 500100N 0073600W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Activated by NOTAM. See Note 4.
AARA AREA 12 502848N 0075500W - 505848N 0053454W - 510648N 0045500W - 504742N 0044542W - 504000N 0052518W - 501000N 0074436W - 502848N 0075500W	Upper limit: FL280 Lower limit: FL70	Remarks: A/A TACAN: (R) 55 - (T) 118. See Note 1. Initial Point: 510000N 0050900W. Control Point: 502800N 0073800W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Activated by NOTAM.
AARA AREA 13 535900N 0034300W - 544200N 0040700W - 543800N 0042400W - 535600N 0035900W - 535900N 0034300W	Upper limit: FL240 Lower limit: FL150	Remarks: A/A TACAN: (R) 56 - (T) 119. See Note 1. Initial Point: 540400N 0034800W. Control Point: 543500N 0040500W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Activated by NOTAM. See Note 5.

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Name Lateral Limits	Upper - lower Limit System/means of activation announcement/information for Civil Flights	Remarks and time of activity
1	2	3
AARA AREA 14 571900N 0062900W - 554600N 0071700W - 555200N 0075300W - 572500N 0070500W - 571900N 0062900W	Upper limit: FL240 Lower limit: FL180	Remarks: A/A TACAN: (R) 60 - (T) 123. See Note 1. Initial Point: 555700N 0072000W. Control Point: 571100N 0064100W. Controlling Unit: Swanwick (Mil). See Note 2. Comms: As allocated. See Note 3. Advisory Measures: Information on activity available from Swanwick (Mil). See Notes 6, 7 and 8. Hours: Activated by NOTAM.
NSGA AREA 1 - SCOTLAND 550000N 0050000W - 560000N 0070000W - 590000N 0070000W following the line of latitude to - 590000N 0020000W - 560000N 0020000W following the line of latitude to - 560000N 0030000W - 550000N 0030000W following the line of latitude to - 550000N 0050000W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.
NSGA AREA 1A - BORDERS 550000N 0030000W - 560000N 0030000W following the line of latitude to - 560000N 0020000W - 550000N 0013000W following the line of latitude to - 550000N 0030000W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.
NSGA AREA 2 - GREATER YORKSHIRE 550000N 0030555W - 550000N 0020010W - 545604N 0015027W - 534637N 0003203W - 534145N 0011604W - 535309N 0023714W - 540726N 0031558W - 543049N 0033812W - 550000N 0030555W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.
NSGA AREA 3 - DERBYSHIRE 532541N 0014441W - 533440N 0011244W - 531854N 0011656W - 531456N 0005121W - 524539N 0005258W - 530604N 0011927W - 530818N 0013320W - 532541N 0014441W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.
NSGA AREA 4 - WALES 531655N 0043000W - 532117N 0041155W - 531854N 0031644W - 525749N 0024744W - 524143N 0021912W - 521226N 0015238W - 514441N 0021125W - 513815N 0022708W - 513709N 0030425W - 515105N 0041855W - 524356N 0043000W - 531655N 0043000W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.
NSGA AREA 5 - DARTMOOR 504907N 0040425W - 503741N 0035343W - 502314N 0035343W - 502700N 0042714W - 503747N 0042102W - 504907N 0040425W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.
NSGA AREA 6 - NORTHERN IRELAND 550000N 0071046W - 550000N 0064000W - 545000N 0064000W - 545000N 0071600W - 545617N 0071600W - 550000N 0071046W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.
NSGA AREA 6A - NORTHERN IRELAND EXTENSION 550000N 0071046W - 552500N 0063000W - 550000N 0063000W following the line of latitude to - 550000N 0071046W	Upper limit: FL195 Lower limit: FL100	Hours: HJ Daylight hours.

Note 1: *(R) Receiver. (T) Tanker. Secondary A/A TACAN channels are the reverse of the primary channels.*

Note 2: *Swanwick (Mil); crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays.*

Note 3: *Discrete Frequencies for AAR towline use are Primary 343.650, Secondary 264.925 and Tertiary 315.600.*

ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE (ADIZ) (continued)

Note 4: *AARA 10 East and AARA 10 West. AARA 10 East is only available for Tanker-Trails routeing from UK to foreign destinations or vice versa. AARA 10 West is positioned clear of the main North/South Axis routes N862, (U)N864 and UN22 and is available for routine AAR sorties in UK. As AARA 10 and AARA 11 overlap, Tanker Plans will ensure that reservations are de-conflicted either by time or by use of different altitude reservations.*

Note 5: *AARA 13. Flight trial profiles may dictate that the RV takes place outside AARA 13. It remains the responsibility of the Tanker Controller to co-ordinate with other airspace users as necessary.*

Note 6: *In Areas designated as Permanently available for Air-to-Air Refuelling, the amount of warning concerning refuelling operations can be so minimal as to preclude notification by normal methods.*

Note 7: *Where Air-to-Air Refuelling Areas lie inside Free Route Airspace or are coincident with ATS Routes, civil / military co-ordination procedures are applied to minimise disruption to the planned flight profiles or the aircraft concerned.*

Note 8: *Where AARAs are required between FL 195 and FL 245 outside the normal hours of TRAs 001-008 (See ENR 5.2-2/3), the appropriate TRAs are booked via the MAMC - Managed Airspace before 1100 hours at D-1.*

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
ALTCAR SMALL ARMS RANGE (ARMY) A circle, 1800 M radius, centred at 533107N 0030450W	Upper limit: 500 FT AGL Lower limit: SFC			TAVRA Ranges.
ASH SMALL ARMS RANGE A circle, 2500 M radius, centred at 511631N 0004118W	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD132.
BARTON ROAD SMALL ARMS RANGE A circle, 1500 M radius, centred at 521147N 0000317E	Upper limit: 500 FT AGL Lower limit: SFC			
BASSINGBOURN SMALL ARMS RANGE (ARMY) A circle, 500 M radius, centred at 520611N 0000342W	Upper limit: 500 FT AGL Lower limit: SFC			
BATTLE HILL SMALL ARMS RANGE A circle, 1300 M radius, centred at 543301N 0020137W	Upper limit: 500 FT AGL Lower limit: SFC			
BECKINGHAM (NO 1) SMALL ARMS RANGE A circle, 1400 M radius, centred at 530515N 0004132W	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD305.
BINNHILL SMALL ARMS RANGE A circle, 1800 M radius, centred at 574126N 0030843W	Upper limit: 500 FT AGL Lower limit: SFC			
BLACK DOG SMALL ARMS RANGE A circle, 1800 M radius, centred at 571315N 0020221W	Upper limit: 500 FT AGL Lower limit: SFC			
BOAR HILL SMALL ARMS RANGE A circle, 500 M radius, centred at 511205N 0002043W	Upper limit: 500 FT AGL Lower limit: SFC			Private Range.
CASTLELAW SMALL ARMS RANGE A circle, 700 M radius, centred at 555154N 0031424W	Upper limit: 500 FT AGL Lower limit: SFC			
CAWDOR SMALL ARMS RANGE A circle, 700 M radius, centred at 573016N 0035409W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
CHICKERELL SMALL ARMS RANGE A circle, 1500 M radius, centred at 503601N 0023044W	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD014.
CHICKSANDS SMALL ARMS RANGE (ARMY) A circle, 500 M radius, centred at 520235N 0002301W	Upper limit: 500 FT AGL Lower limit: SFC			
CHILCOMB SMALL ARMS RANGE A circle, 1300 M radius, centred at 510231N 0011640W	Upper limit: 500 FT AGL Lower limit: SFC			
CORPUSTY SMALL ARMS RANGE A circle, 500 M radius, centred at 524915N 0010743E	Upper limit: 500 FT AGL Lower limit: SFC			
CRABBE SMALL ARMS RANGE (JERSEY) A circle, 3000 M radius, centred at 491438N 0021122W	Upper limit: 500 FT AGL Lower limit: SFC			Civil. Firing activity takes place seawards.
DAVIOT SMALL ARMS RANGE A circle, 900 M radius, centred at 572405N 0040843W	Upper limit: 500 FT AGL Lower limit: SFC			Police.
DECHMONT SMALL ARMS RANGE A circle, 1187 M radius, centred at 554741N 0040837W	Upper limit: 500 FT AGL Lower limit: SFC			
DIGGLE SMALL ARMS RANGE A circle, 470 M radius, centred at 533420N 0015755W	Upper limit: 500 FT AGL Lower limit: SFC			Police/Civil.
DINGWALL SMALL ARMS RANGE (ARMY) A circle, 1600 M radius, centred at 573619N 0042351W	Upper limit: 500 FT AGL Lower limit: SFC			

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
DOCHFOUR SMALL ARMS RANGE A circle, 600 M radius, centred at 572641N 0041740W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
DRUMS LINKS SMALL ARMS RANGE A circle, 2900 M radius, centred at 571726N 0020036W	Upper limit: 500 FT AGL Lower limit: SFC			Police/Civil. Firing activity takes place seawards.
EAST HOLME SMALL ARMS RANGE A circle, 1300 M radius, centred at 503920N 0020821W	Upper limit: 500 FT AGL Lower limit: SFC			Partly within EGD026.
ELMINGTON SMALL ARMS RANGE A circle, 600 M radius, centred at 522925N 0002612W	Upper limit: 500 FT AGL Lower limit: SFC			Oundle School Range. Police/Civil.
EPPERSTONE SMALL ARMS RANGE A circle, 1170 M radius, centred at 530205N 0010040W	Upper limit: 500 FT AGL Lower limit: SFC			Police/Civil.
FINGRINGHOE SMALL ARMS RANGE A circle, 1800 M radius, centred at 514924N 0005717E	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD139.
FORT GEORGE SMALL ARMS RANGE A circle, 2600 M radius, centred at 573558N 0040325W	Upper limit: 500 FT AGL Lower limit: SFC			Partly within EGD702.
FORT LE MARCHANT SMALL ARMS RANGE (GUERNSEY) A 3000 M arc between 347°T to 069°T, originating from 493031N 0023105W.	Upper limit: 500 FT AGL Lower limit: SFC	OCNL 1500 FT AGL by NOTAM.	States of Guernsey Culture and Leisure.	Firing activity takes place seaward within Sector 347ºT to 069ºT. Activity information available - Guernsey APP 128.655 MHz. Hours: Live Firing Mon-Sat SR-SS.
HEBRIDES ARDVULE SMALL ARMS RANGE A circle, 1600 M radius, centred at 571440N 0072524W	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD701.
HEBRIDES RANGEHEAD SMALL ARMS RANGE A circle, 1600 M radius, centred at 572202N 0072519W	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD701.
HOLCOMBE SMALL ARMS RANGE A circle, 1300 M radius, centred at 533909N 0022121W	Upper limit: 500 FT AGL Lower limit: SFC			
HORSFORD SMALL ARMS RANGE A circle, 500 M radius, centred at 524254N 0011449E	Upper limit: 500 FT AGL Lower limit: SFC			
KELPHOPE FARM SMALL ARMS RANGE A circle, 1710 M radius, centred at 554950N 0024748W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
KENDREW BARRACKS SMALL ARMS RANGE A circle, 500 M radius, centred at 524349N 0003851W	Upper limit: 500 FT AGL Lower limit: SFC			
KINETON SMALL ARMS RANGE A circle, 700 M radius, centred at 520902N 0012656W	Upper limit: 500 FT AGL Lower limit: SFC			Explosives Demolition. Within EGD213.
KINGSBURY SMALL ARMS RANGE A circle, 1300 M radius, centred at 523405N 0013945W	Upper limit: 500 FT AGL Lower limit: SFC			
LANGPORT SMALL ARMS RANGE A circle, 1500 M radius, centred at 510351N 0024956W	Upper limit: 750 FT AGL Lower limit: SFC			
LERWICK SMALL ARMS RANGE A circle, 400 M radius, centred at 601050N 0010929W	Upper limit: 500 FT AGL Lower limit: SFC			

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
LES LANDES SMALL ARMS RANGE (JERSEY) A circle, 3000 M radius, centred at 491456N 0021459W	Upper limit: 500 FT AGL Lower limit: SFC			Civil. Firing activity takes place seawards.
LING FARM QUARRY SMALL ARMS RANGE A circle, 500 M radius, centred at 530557N 0010906W	Upper limit: 500 FT AGL Lower limit: SFC			
LLANSILIN SMALL ARMS RANGE A circle, 700 M radius, centred at 525112N 0030844W	Upper limit: 500 FT AGL Lower limit: SFC			
LONGMOOR SMALL ARMS RANGE A circle, 1700 M radius, centred at 510508N 0005123W	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD130.
LONGTOWN SMALL ARMS RANGE A circle, 500 M radius, centred at 545908N 0030127W	Upper limit: 500 FT AGL Lower limit: SFC			Explosives Demolition.
MARSDEN (DEERHILL) SMALL ARMS RANGE A circle, 1300 M radius, centred at 533544N 0015401W	Upper limit: 500 FT AGL Lower limit: SFC			Police/Civil.
MATTERSEY SMALL ARMS RANGE A circle, 500 M radius, centred at 532259N 0005812W	Upper limit: 500 FT AGL Lower limit: SFC			
MEPAL SMALL ARMS RANGE A circle, 500 M radius, centred at 522341N 0000626E	Upper limit: 500 FT AGL Lower limit: SFC			
MILLPOOL SMALL ARMS RANGE A circle, 1300 M radius, centred at 503039N 0043753W	Upper limit: 500 FT AGL Lower limit: SFC			
MILTON SMALL ARMS RANGE A circle, 500 M radius, centred at 512634N 0002503E	Upper limit: 500 FT AGL Lower limit: SFC			Police.
MOODY'S DOWN SMALL ARMS RANGE A circle, 1300 M radius, centred at 510911N 0012307W	Upper limit: 500 FT AGL Lower limit: SFC			
NEWTOWN SMALL ARMS RANGE (ARMY) A circle, 1200 M radius, centred at 504328N 0012305W	Upper limit: 500 FT AGL Lower limit: SFC			
NORMAN CROSS SMALL ARMS RANGE A circle, 500 M radius, centred at 523019N 0001655W	Upper limit: 500 FT AGL Lower limit: SFC			
OTMOOR SMALL ARMS RANGE A circle, 1300 M radius, centred at 514910N 0011008W	Upper limit: 500 FT AGL Lower limit: SFC			
PENALLY SMALL ARMS RANGE A circle, 1700 M radius, centred at 513841N 0044341W	Upper limit: 500 FT AGL Lower limit: SFC			
PONTELAND SMALL ARMS RANGE A circle, 1300 M radius, centred at 550358N 0014253W	Upper limit: 500 FT AGL Lower limit: SFC			
RADNOR SMALL ARMS RANGE A circle, 1500 M radius, centred at 521522N 0031056W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
RALEIGH SMALL ARMS RANGE (RN) A circle, 1000 M radius, centred at 502158N 0041326W	Upper limit: 500 FT AGL Lower limit: SFC			Range known as Trevol.
RAMSDALE SMALL ARMS RANGE A circle, 700 M radius, centred at 585653N 0030913W	Upper limit: 500 FT AGL Lower limit: SFC			
ROGIET MOOR SMALL ARMS RANGE A circle, 1700 M radius, centred at 513403N 0024526W	Upper limit: 500 FT AGL Lower limit: SFC			

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
ROSS-ON-WYE SMALL ARMS RANGE (ARMY) A circle, 700 M radius, centred at 515429N 0023357W	Upper limit: 500 FT AGL Lower limit: SFC			
SANDHURST SMALL ARMS RANGE A circle, 1300 M radius, centred at 512122N 0004554W	Upper limit: 500 FT AGL Lower limit: SFC			Range known as Barrossa.
SEALAND SMALL ARMS RANGE A circle, 1600 M radius, centred at 531513N 0030354W	Upper limit: 500 FT AGL Lower limit: SFC			
SOUTH FERRIBY SMALL ARMS RANGE A circle, 300 M radius, centred at 534058N 0002932W	Upper limit: 500 FT AGL Lower limit: SFC		Humberside Police.	Police. Hours: Weekdays only.
SPARSHOLT COLLEGE SMALL ARMS RANGE A circle, 1800 M radius, centred at 510515N 0012356W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
SPEAN BRIDGE SMALL ARMS RANGE A circle, 605 M radius, centred at 565634N 0045505W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
STRAIGHT POINT SMALL ARMS RANGE A circle, 1700 M radius, centred at 503629N 0032026W	Upper limit: 500 FT AGL Lower limit: SFC			
STRATHPEFFER SMALL ARMS RANGE A circle, 900 M radius, centred at 573556N 0043011W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
STRENSALL SMALL ARMS RANGE A circle, 1400 M radius, centred at 540139N 0010050W	Upper limit: 500 FT AGL Lower limit: SFC			
SWYNNERTON SMALL ARMS RANGE A circle, 250 M radius, centred at 525241N 0021333W	Upper limit: 500 FT AGL Lower limit: SFC			Police.
TAIL SMALL ARMS RANGE A circle, 700 M radius, centred at 574754N 0040706W	Upper limit: 500 FT AGL Lower limit: SFC			Civil.
THETFORD SMALL ARMS RANGE A circle, 1700 M radius, centred at 522432N 0004132E	Upper limit: 500 FT AGL Lower limit: SFC			
TIPNER SMALL ARMS RANGE A circle, 1200 M radius, centred at 504939N 0010636W	Upper limit: 500 FT AGL Lower limit: SFC			
TREGANTLE SMALL ARMS RANGE A circle, 2000 M radius, centred at 502102N 0041733W	Upper limit: 500 FT AGL Lower limit: SFC			
TYDDESLEY WOOD SMALL ARMS RANGE A circle, 400 M radius, centred at 520606N 0020523W	Upper limit: 500 FT AGL Lower limit: SFC			
WATERBEACH SMALL ARMS RANGE A circle, 250 M radius, centred at 521706N 0001146E	Upper limit: 500 FT AGL Lower limit: SFC			Explosives Demolition demonstrations.
WHITTINGTON SMALL ARMS RANGE A circle, 1500 M radius, centred at 523928N 0014457W	Upper limit: 500 FT AGL Lower limit: SFC			
WILLSWORTHY SMALL ARMS RANGE A circle, 2000 M radius, centred at 503808N 0040352W	Upper limit: 500 FT AGL Lower limit: SFC			Within EGD011.
YOXTER SMALL ARMS RANGE A circle, 1600 M radius, centred at 511612N 0024058W	Upper limit: 500 FT AGL Lower limit: SFC			

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
CASTLELAW FLARES AND ILLUMINANTS 555355N 0031651W - 555357N 0031301W - 555115N 0031256W - 555113N 0031646W - 555355N 0031651W	Upper limit: 1000 FT AGL Lower limit: SFC		Army.	Parachute flares reach a maximum height of 1000 FT AGL and burn with a bright white light for approximately 30 seconds. Rocket flares do not exceed 300 FT agl. Mini and Pistol flares reach a height of approximately 100 FT agl. Non-parachute flares only burn for a few seconds.
PIPPINGFORD PARK TRAINING AREA FLARES AND ILLUMINANTS A circle, 1200 M radius, centred at 510346N 0000404E	Upper limit: 1000 FT AGL Lower limit: SFC		Army.	Parachute flares reach a maximum height of 1000 FT AGL and burn with a bright white light for approximately 30 seconds. Rocket flares do not exceed 300 FT agl. Mini and Pistol flares reach a height of approximately 100 FT agl. Non-parachute flares only burn for a few seconds.
SANDHURST FLARES AND ILLUMINANTS 512147N 0004635W	Upper limit: 1000 FT AGL Lower limit: SFC		Army.	Parachute flares reach a maximum height of 1000 FT AGL and burn with a bright white light for approximately 30 seconds. Rocket flares do not exceed 300 FT agl. Mini and Pistol flares reach a height of approximately 100 FT agl. Non-parachute flares only burn for a few seconds.
ABERPORTH 520824N 0043413W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon will be either off-white to brown, or red (100 gm) normally carrying a 390 gm radiosonde or radar reflective calibration sphere, of similar weight and parachute. Hours: Launched 0500 UTC Mon-Fri, occasionally at other times usually 0800-1700 UTC and Sat/Sun.
ABERYSTWYTH UNIVERSITY 522458N 0040352W	Upper limit: UNL	80000 FT and beyond.		Hours: Launched Mon-Fri various times.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
ALBEMARLE BARRACKS 550106N 0015200W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon off-white to brown/ carrying 390 gm radiosonde and parachute. Hours: Launched at 2325 UTC and occasionally at 1115 UTC or other times of the day.
ASHBOURNE 530058N 0014431W	Upper limit: UNL	80000 FT and beyond.	Phone: 0114-213 1050.	Hours: Launched as required.
CAMBORNE 501312N 0051933W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon off-white to brown/ carrying 390 gm radiosonde and parachute. Hours: Launched 1115, 2315 and occasionally at other times of the day (which may include multi-sonde launches).
CAMBRIDGE UNIVERSITY 521300N 0000600E	Upper limit: UNL	80000 FT and beyond.	Phone: 01223-793143 or 07913-430431.	Hours: Launched as required.
← CASTOR BAY 540003N 0062021W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon off-white to brown/ carrying 390 gm radiosonde and parachute. Hours: Launched at 2325 UTC and occasionally at 1115 UTC or other times of the day.
CHILBOLTON 510853N 0012551W	Upper limit: UNL	80000 FT and beyond.	CCLRC Observatory.	Hours: Launched Mon-Fri various times.
CHIRK CASTLE 525607N 0030522W	Upper limit: UNL	80000 FT and beyond.	Phone: 0114-213 1050.	Hours: Launched as required.
CULDROSE 500507N 0051515W	Upper limit: UNL	80000 FT and beyond.	Royal Naval Air Squadron.	Hours: Launched Mon-Fri various times.
ELSWORTH 521500N 0000500W	Upper limit: UNL	80000 FT and beyond.	Phone: 07802-242135.	Hours: Launched as required.
ESKMEALS 541921N 0032452W	Upper limit: UNL	80000 FT and beyond.	QinetiQ.	Hydrogen or helium-filled balloon will be either off-white to brown, or red (100 gm) normally carrying a 390 gm radiosonde or radar reflective calibration sphere, of similar weight and parachute. Hours: Launched as required.
HERSTMONCEUX 505328N 0001901E	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon off-white to brown/ carrying 390 gm radiosonde and parachute. Hours: Launched at 2325 UTC and occasionally at 1115 UTC or other times of the day.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
LARKHILL 511155N 0014819W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon red/carrying 300 gm radiosonde and parachute. Hours: Launched 0500 - 1800 UTC.
LERWICK 601132N 0011437W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Hydrogen or helium-filled balloon off-white to brown/carrying 390 gm radiosonde and parachute. A weekly ozonesonde launch, which is an off-white balloon carrying ozonesonde and parachute launched once a week. Weight 840 gm. Hours: Launched 1115, 2315 and occasionally at other times of the day.
OLD GORE 515701N 0023238W	Upper limit: UNL	80000 FT and beyond.	Phone: 07850-586430 or 01989-780764.	Hours: Launched as required.
PLYMOUTH 502335N 0041056W	Upper limit: UNL	80000 FT and beyond.	Flag Officer Sea Training (FOST), Royal Naval Hydrography and Meteorological School.	Helium-filled balloon off-white (carrying a 210 gm radiosonde). Hours: Launched Mon-Fri various times. Occasionally at other times, usually Sat-Sun 0800-1600 (0700-1500).
PLYMOUTH EXERCISE AREAS A circle, 40 NM radius, centred at 495000N 0041500W	Upper limit: UNL	80000 FT and beyond.	Flag Officer Sea Training (FOST), Royal Navy.	Helium-filled balloons (with and without radiosondes). Hours: Launched as required.
PORTLAND EXERCISE AREAS A circle, 30 NM radius, centred at 502400N 0024000W	Upper limit: UNL	80000 FT and beyond.	Flag Officer Sea Training (FOST), Royal Navy.	Helium-filled balloons (with and without radiosondes). Hours: Launched as required.
PORTSMOUTH EXERCISE AREAS A circle, 30 NM radius, centred at 501330N 0010200W	Upper limit: UNL	80000 FT and beyond.	Flag Officer Sea Training (FOST), Royal Navy.	Helium-filled balloons (with and without radiosondes). Hours: Launched as required.
READING UNIVERSITY 512622N 0005643W	Upper limit: UNL	80000 FT and beyond.		Hours: Launched Mon-Fri various times.
RIPON 540835N 0013254W	Upper limit: UNL	80000 FT and beyond.		Hydrogen or helium-filled balloon will be either off-white to brown, or red (100 gm) normally carrying a 390 gm radiosonde or radar reflective calibration sphere, of similar weight & parachute. Hours: Launched as required.
SHEFFIELD 532532N 0013153W	Upper limit: UNL	80000 FT and beyond.	Phone: 0114-213 1050.	Hours: Launched as required.
SHOEBURYNESS 513131N 0004717E	Upper limit: UNL	80000 FT and beyond.	QinetiQ.	Hours: Launched Mon-Fri various times.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
SOUTH UIST 572130N 0072319W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon will be either off-white to brown, or red (100 gm) normally carrying a 390 gm radiosonde or radar reflective calibration sphere, of similar weight & parachute. Hours: Launched as required.
TERNHILL 525225N 0023155W	Upper limit: UNL	80000 FT and beyond.	Royal Air Force.	Hours: Launched Mon-Fri various times.
TOPCLIFFE 541220N 0012254W	Upper limit: UNL	80000 FT and beyond.	Royal Air Force.	Hours: Launched Mon-Fri various times.
WATNALL 530117N 0011313W	Upper limit: UNL	80000 FT and beyond.	Met Office.	Helium-filled balloon off-white to brown/ carrying 390 gm radiosonde and parachute. Hours: Launched at 2325 UTC and occasionally at 1115 UTC or other times of the day.
WEST FREUGH 545104N 0045652W	Upper limit: UNL	80000 FT and beyond.	Qinetiq.	Helium-filled balloon will be either off-white to brown, or red (100 gm) normally carrying a 390 gm radiosonde or radar reflective calibration sphere, of similar weight & parachute. Hours: Launched as required.
ALDBROUGH GVS A circle, 0.25 NM radius, centred at 534850N 0000515W	Upper limit: 3200 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
ALREWAS GVS A circle, 0.25 NM radius, centred at 524425N 0014629W	Upper limit: 2700 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
ATWICK GVS A circle, 0.5 NM radius, centred at 535645N 0001225W	Upper limit: 3200 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
AVONBRIDGE (FORMERLY BATHGATE) GVS A circle, 0.25 NM radius, centred at 555509N 0034443W	Upper limit: 3200 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
AVONMOUTH GVS A circle, 1 NM radius, centred at 513150N 0023916W	Upper limit: 3500 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
AYLESBURY GVS A circle, 0.25 NM radius, centred at 515137N 0005742W	Upper limit: 2800 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
BACTON GVS A circle, 1 NM radius, centred at 525121N 0012734E	Upper limit: 3600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
BARROW GVS A circle, 0.5 NM radius, centred at 540535N 0031049W	Upper limit: 3600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
BISHOP AUCKLAND GVS A circle, 0.25 NM radius, centred at 544011N 0013403W	Upper limit: 3000 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
CAMBRIDGE GVS A circle, 0.25 NM radius, centred at 520451N 0000951E	Upper limit: 2700 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
CARNFORTH & NETHER KELLET GVS A circle, 0.5 NM radius, centred at 540607N 0024416W	Upper limit: 2800 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
CHELMSFORD GVS A circle, 0.25 NM radius, centred at 514502N 0002412E	Upper limit: 2700 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
CHURCHOVER GVS A circle, 0.25 NM radius, centred at 522447N 0011615W	Upper limit: 2900 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
CITIGEN GVS, LONDON A circle, 0.25 NM radius, centred at 513108N 0000617W	Upper limit: 1100 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
DISS GVS A circle, 0.25 NM radius, centred at 521954N 0010755E	Upper limit: 2700 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
EASINGTON GVS A circle, 1 NM radius, centred at 533916N 0000710E	Upper limit: 3600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
FELINDRE GVS A circle, 0.25 NM radius, centred at 514129N 0035716W	Upper limit: 2800 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
GARLOGIE GVS A circle, 0.25 NM radius, centred at 570814N 0022256W	Upper limit: 2900 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
GASCOIGNE WOOD GVS A circle, 0.25 NM radius, centred at 534650N 0011225W	Upper limit: 1100 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
HARWORTH GVS A circle, 0.25 NM radius, centred at 532451N 0010338W	Upper limit: 1200 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
HATTON GVS A circle, 0.25 NM radius, centred at 531611N 0001439W	Upper limit: 2700 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
HUNTINGDON GVS A circle, 0.25 NM radius, centred at 521828N 0002142W	Upper limit: 2800 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
ISLE OF GRAIN GVS A circle, 1 NM radius, centred at 512652N 0004100E	Upper limit: 3500 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
ISLE OF GRAIN JETTY GVS A circle, 1 NM radius, centred at 512601N 0004222E	Upper limit: 3500 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
KELLINGTON GVS A circle, 0.25 NM radius, centred at 534225N 0011216W	Upper limit: 1100 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
KIDDERMINSTER GVS A circle, 0.75 NM radius, centred at 522133N 0021433W	Upper limit: 2200 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		Strong thermals, smoke and gases.
KINGS LYNN (A) GVS A circle, 0.25 NM radius, centred at 524258N 0003247E	Upper limit: 2600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
KINGS LYNN (B) GVS A circle, 0.5 NM radius, centred at 524343N 0002248E	Upper limit: 2600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
KIRRIEMUIR GVS A circle, 0.25 NM radius, centred at 564054N 0025555W	Upper limit: 2900 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
LOCKERLEY GVS A circle, 0.25 NM radius, centred at 510128N 0013420W	Upper limit: 2700 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
MALTBY GVS A circle, 0.25 NM radius, centred at 532535N 0011018W	Upper limit: 1300 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
MOFFAT GVS A circle, 0.25 NM radius, centred at 551646N 0032625W	Upper limit: 3000 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
PETERBOROUGH GVS A circle, 0.25 NM radius, centred at 523737N 0001755W	Upper limit: 2600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
ROSSINGTON GVS A circle, 0.25 NM radius, centred at 532842N 0010544W	Upper limit: 1100 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
ST FERGUS GVS 573548N 0014947W - 573456N 0014904W - 573339N 0014921W - 573317N 0015100W - 573509N 0015234W - 573548N 0014947W	Upper limit: 3600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
STILLINGFLEET GVS A circle, 0.25 NM radius, centred at 535128N 0010458W	Upper limit: 1100 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
WARRINGTON GVS A circle, 0.25 NM radius, centred at 532431N 0022847W	Upper limit: 2600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
WISBECH GVS A circle, 0.25 NM radius, centred at 524325N 0000948E	Upper limit: 2600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
WOOLER GVS A circle, 0.25 NM radius, centred at 553447N 0020520W	Upper limit: 2700 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
WORMINGTON GVS A circle, 0.5 NM radius, centred at 520147N 0015537W	Upper limit: 2600 FT ALT Lower limit: SFC	Site operator recommended advisory vertical avoidance criteria, plus site elevation and rounded up to next 100 FT.		
BARFORD ST. JOHN HIRTA A circle, 0.25 NM radius, centred at 520014N 0012138W	Upper limit: 600 FT ALT Lower limit: SFC			

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
BLACK HILL HIRTA A circle, 0.15 NM radius, centred at 555137N 0035209W	Upper limit: 2400 FT ALT Lower limit: SFC			
BOULMER HIRTA A circle, 0.15 NM radius, centred at 552428N 0013720W	Upper limit: 300 FT ALT Lower limit: SFC			
BUCHAN HIRTA A circle, 0.15 NM radius, centred at 572728N 0014852W	Upper limit: 600 FT ALT Lower limit: SFC			
COLERNE HIRTA A circle, 0.9 NM radius, centred at 512639N 0021640W	Upper limit: 3700 FT ALT Lower limit: SFC			
COWES HIRTA A circle, 0.25 NM radius, centred at 504451N 0011836W	Upper limit: 400 FT ALT Lower limit: SFC			
CROUGHTON HIRTA A circle, 1.2 NM radius, centred at 515916N 0011112W	Upper limit: 2900 FT ALT Lower limit: SFC			
EMLEY MOOR HIRTA, HUDDERSFIELD A circle, 0.08 NM radius, centred at 533644N 0013952W	Upper limit: 2200 FT ALT Lower limit: SFC			
FAREHAM HIRTA A circle, 0.2 NM radius, centred at 505015N 0011130W	Upper limit: 700 FT ALT Lower limit: SFC			
FYLINGDALES HIRTA A circle, 2.5 NM radius, centred at 542143N 0004013W	Upper limit: 13600 FT ALT Lower limit: SFC			
GOONHILLY DOWN HIRTA A circle, 0.85 NM radius, centred at 500302N 0051100W	Upper limit: 5600 FT ALT Lower limit: SFC			
MADLEY HIRTA A circle, 2 NM radius, centred at 520153N 0025023W	Upper limit: 6700 FT ALT Lower limit: SFC			
OAKHANGER HIRTA A circle, 1.5 NM radius, centred at 510651N 0005334W	Upper limit: 3800 FT ALT Lower limit: SFC			
PERSHORE HIRTA A circle, 0.6 NM radius, centred at 520841N 0020217W	Upper limit: 700 FT ALT Lower limit: SFC			
PORTREATH HIRTA A circle, 0.15 NM radius, centred at 501614N 0051623W	Upper limit: 450 FT ALT Lower limit: SFC			
PORTSDOWN HIRTA A circle, 1 NM radius, centred at 505124N 0010522W	Upper limit: 6600 FT ALT Lower limit: SFC			
SANDALE HIRTA, CUMBERLAND A circle, 0.04 NM radius, centred at 544457N 0030826W	Upper limit: 2200 FT ALT Lower limit: SFC			
SKELTON HIRTA A circle, 0.35 NM radius, centred at 544354N 0025259W	Upper limit: 2200 FT ALT Lower limit: SFC			
SPADEADAM01 HIRTA A circle, 0.2 NM radius, centred at 551258N 0024125W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM02 HIRTA A circle, 0.2 NM radius, centred at 550748N 0022910W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM03 HIRTA A circle, 0.2 NM radius, centred at 545538N 0022325W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM04 HIRTA A circle, 0.2 NM radius, centred at 550037N 0023307W	Upper limit: 2800 FT ALT Lower limit: SFC			

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
SPADEADAM05 HIRTA A circle, 0.2 NM radius, centred at 550513N 0023815W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM06 HIRTA A circle, 0.2 NM radius, centred at 550226N 0023744W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM07 HIRTA A circle, 0.2 NM radius, centred at 550349N 0023558W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM08 HIRTA A circle, 0.2 NM radius, centred at 550207N 0023444W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM09 HIRTA A circle, 0.2 NM radius, centred at 550307N 0023311W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM10 HIRTA A circle, 0.2 NM radius, centred at 550404N 0023417W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM11 HIRTA A circle, 0.2 NM radius, centred at 550207N 0023444W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM12 HIRTA A circle, 0.2 NM radius, centred at 550326N 0023410W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM13 HIRTA A circle, 0.2 NM radius, centred at 550404N 0023353W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM14 HIRTA A circle, 0.2 NM radius, centred at 550137N 0023336W	Upper limit: 2800 FT ALT Lower limit: SFC			
SPADEADAM15 HIRTA A circle, 0.2 NM radius, centred at 550148N 0023237W	Upper limit: 2800 FT ALT Lower limit: SFC			
STAXTON WOLD HIRTA A circle, 0.15 NM radius, centred at 541116N 0002600W	Upper limit: 750 FT ALT Lower limit: SFC			
SWINGATE HIRTA A circle, 0.07 NM radius, centred at 510759N 0012037E	Upper limit: 650 FT ALT Lower limit: SFC			
TACOLNESTON HIRTA A circle, 0.15 NM radius, centred at 523108N 0010818E	Upper limit: 1300 FT ALT Lower limit: SFC			
WOODHAM FERRERS HIRTA A circle, 0.2 NM radius, centred at 513929N 0003710E	Upper limit: 850 FT ALT Lower limit: SFC			
WOOFFERTON HIRTA A circle, 0.7 NM radius, centred at 521850N 0024319W	Upper limit: 1600 FT ALT Lower limit: SFC			
CHILBOLTON LASER SITE A circle, 0.5 NM radius, centred at 510842N 0012622W	Upper limit: UNL Lower limit: SFC	Visible beam is potentially hazardous to aircrew at night. Operator extinguishes beam when aircraft are sighted in the vicinity.	Chilbolton Site, Tel: 01264-860391	Hours: H24
MOD PORTON DOWN Same extent as EGD127	Upper limit: UNL Lower limit: SFC	Emitted light contained within range boundaries.	DSTL.	Inside the confines of EGD127. Hours: Laser operations for short and sustained periods at various times of the day and night.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
NERC SPACE GEODESY FACILITY LASER SITE A circle, 1 NM radius, centred at 505205N 0002016E (Herstmonceux Castle)	Upper limit: UNL Lower limit: SFC	Visible beam is potentially hazardous to aircrew. Operator extinguishes beam when aircraft are sighted in the vicinity.	Site Operations, NERC Tel: 01323-833888.	Hours: H24 Laser operations are H24 throughout the year.
PORTSDOWN WEST LASER SITE A circle, 0.25 NM radius, centred at 505138N 0010747W (Portsdown Hill)	Upper limit: 1800 FT ALT Lower limit: SFC	Invisible beam is potentially hazardous to aircrew. Operator extinguishes beam when aircraft are sighted in the vicinity.	Dstl, Tel: 01980-950000.	Hours: H24 Laser operation up to 8 times per day.
QINETIQ PERSHORE A circle, 1 NM radius, centred at 520837N 0020217W	Upper limit: UNL Lower limit: SFC		Site Operations, QinetiQ Pershore.	
UK MET OFFICE CAMBORNE LASER SITE A circle, 0.5 NM radius, centred at 501307N 0051938W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE EAST MALLING LASER SITE A circle, 0.5 NM radius, centred at 511715N 0002654E	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE EXETER LASER SITE A circle, 0.5 NM radius, centred at 504341N 0033200W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE GLASGOW BISHOPTON LASER SITE A circle, 0.5 NM radius, centred at 555425N 0043158W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE LERWICK LASER SITE A circle, 0.5 NM radius, centred at 600823N 0011104W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE LOFTUS LASER SITE A circle, 0.5 NM radius, centred at 543347N 0005143W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE PORTGLENONE LASER SITE A circle, 0.5 NM radius, centred at 545155N 0062728W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE RHYL LASER SITE A circle, 0.5 NM radius, centred at 531534N 0033031W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE STORNOWAY DRUIM A STARRAIG LASER SITE A circle, 0.5 NM radius, centred at 581243N 0061055W	Upper limit: UNL Lower limit: SFC			Hours: H24
UK MET OFFICE WATNALL LASER SITE A circle, 0.5 NM radius, centred at 530021N 0011501W	Upper limit: UNL Lower limit: SFC			Hours: H24
UNIVERSITY OF HERTFORDSHIRE LASER SITE A circle, 1 NM radius, centred at 514512N 0001428W	Upper limit: UNL Lower limit: SFC	Visible beam is potentially hazardous to aircrew. System extinguishes beam when aircraft are observed by radar with +/- 15 degrees of the vertical position.	Physics, Astronomy and Mathematics Dept., Tel: 01707-285555.	Hours: H24
UK ORBIT AREA 01 511500N 0073000W - 511500N 0053000W - 493700N 0053000W - 493700N 0073000W - 511500N 0073000W	Upper limit: FL330 Lower limit: FL290		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Hours: H24 Permanently available.
UK ORBIT AREA 01 LOBE 01 A circle, 15 NM radius, centred at 505500N 0070000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK ORBIT AREA 01 LOBE 02 A circle, 15 NM radius, centred at 505500N 0063000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 01 LOBE 03 A circle, 15 NM radius, centred at 505500N 0060000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 01 LOBE 04 A circle, 15 NM radius, centred at 502500N 0070000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 01 LOBE 05 A circle, 15 NM radius, centred at 502500N 0063000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 01 LOBE 06 A circle, 15 NM radius, centred at 502500N 0060000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 01 LOBE 07 A circle, 15 NM radius, centred at 495500N 0070000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 01 LOBE 08 A circle, 15 NM radius, centred at 495500N 0063000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 01 LOBE 09 A circle, 15 NM radius, centred at 495500N 0060000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 02 514200N 0045200W - 513700N 0033300W - 511200N 0033700W - 505900N 0043700W - 510500N 0045000W - 514200N 0045200W	Upper limit: FL330 Lower limit: FL290		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Hours: H24 Permanently available.
UK ORBIT AREA 02 LOBE 01 A circle, 15 NM radius, centred at 512000N 0041500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 02 LOBE 02 A circle, 12 NM radius, centred at 512400N 0035800W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 02 LOBE 03 A circle, 12 NM radius, centred at 511500N 0043000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 03 525836N 0003322W - 524210N 0015344E - 523947N 0015344E - 522528N 0011245E - 522624N 0000434W - 525836N 0003322W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: EAMTA A. Hours: H24 Permanently available.
UK ORBIT AREA 03 LOBE 01 A circle, 12 NM radius, centred at 524100N 0000650E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 03 LOBE 02 A circle, 11 NM radius, centred at 523750N 0005150E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 03 LOBE 03 A circle, 11 NM radius, centred at 523650N 0010450E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK ORBIT AREA 05 555123N 0011510W - 553953N 0010247W - 553010N 0011022W - 551333N 0020652W - 551723N 0022711W - 553024N 0024003W - 554233N 0022635W - 555053N 0014116W - 555123N 0011510W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Non-RVSM compliant aircraft FL 280 only. Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 05 LOBE 01 A circle, 14 NM radius, centred at 553000N 0020900W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 05 LOBE 02 A circle, 11 NM radius, centred at 553900N 0012650W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 06 554800N 0033200E - 551500N 0035000E - 550500N 0030800E - 552400N 0020000E - 554600N 0021700E - 554800N 0033200E	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 06 LOBE 01 A circle, 12 NM radius, centred at 553300N 0023300E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 06 LOBE 02 A circle, 12 NM radius, centred at 552300N 0032100E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 06 LOBE 03 A circle, 18 NM radius, centred at 552700N 0030600E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 07 570000N 0095000W - 565000N 0073000W - 562000N 0070000W - 553000N 0070000W - 553000N 0095000W - 570000N 0095000W	Upper limit: FL330 Lower limit: FL290		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 07 LOBE 01 A circle, 20 NM radius, centred at 563100N 0090000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 07 LOBE 02 A circle, 20 NM radius, centred at 562700N 0080000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 07 LOBE 03 A circle, 20 NM radius, centred at 555500N 0090000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK ORBIT AREA 07 LOBE 04 A circle, 20 NM radius, centred at 555500N 0075000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 08 572000N 0010000W - 574000N 0001500E - 561000N 0012000E - 561000N 0013000W - 572000N 0010000W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 08 LOBE 01 A circle, 20 NM radius, centred at 571000N 0001500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 08 LOBE 02 A circle, 20 NM radius, centred at 563100N 0004400W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 08 LOBE 03 A circle, 20 NM radius, centred at 563100N 0002400E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 09 572200N 0043000W - 574000N 0032200W - 573500N 0021500W - 562200N 0025200W - 562200N 0035700W - 572200N 0043000W	Upper limit: FL330 Lower limit: FL290		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 09 LOBE 01 A circle, 15 NM radius, centred at 572200N 0025200W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 09 LOBE 02 A circle, 15 NM radius, centred at 571500N 0035000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 09 LOBE 03 A circle, 15 NM radius, centred at 563800N 0032500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 10 590000N 0030000W - 590000N 0005000W - 575800N 0000000W - 575000N 0004000W - 575000N 0024000W - 590000N 0030000W	Upper limit: FL330 Lower limit: FL290		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 10 LOBE 01 A circle, 15 NM radius, centred at 584400N 0022500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK ORBIT AREA 10 LOBE 02 A circle, 15 NM radius, centred at 584400N 0011000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 10 LOBE 03 A circle, 15 NM radius, centred at 580600N 0021500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 10 LOBE 04 A circle, 15 NM radius, centred at 580600N 0005000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 11 600000N 0095000W - 600000N 0060000W - 584000N 0060000W - 582000N 0070000W - 582000N 0095000W - 600000N 0095000W	Upper limit: FL330 Lower limit: FL290		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 11 LOBE 01 A circle, 20 NM radius, centred at 593800N 0090000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 11 LOBE 02 A circle, 20 NM radius, centred at 593800N 0070000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 11 LOBE 03 A circle, 20 NM radius, centred at 584400N 0090000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 11 LOBE 04 A circle, 20 NM radius, centred at 584400N 0070000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 12 605000N 0060000W - 605000N 0002948W - 604329N 0002000W - 593000N 0002000W - 593000N 0060000W - 605000N 0060000W	Upper limit: FL330 Lower limit: FL290		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 12 LOBE 01 A circle, 20 NM radius, centred at 602500N 0051500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 12 LOBE 02 A circle, 20 NM radius, centred at 602600N 0031000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 12 LOBE 03 A circle, 20 NM radius, centred at 602500N 0010500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 12 LOBE 04 A circle, 20 NM radius, centred at 595500N 0051500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 12 LOBE 05 A circle, 20 NM radius, centred at 595600N 0031000W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 12 LOBE 06 A circle, 20 NM radius, centred at 595500N 0010500W			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK ORBIT AREA 13 554200N 0012900E - 551000N 0020000E - 544500N 0020000E - 542800N 0002000E - 544300N 0000800W - 554200N 0005000E - 554200N 0012900E	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	Remarks: Swanwick (Mil) is the ATS provider for this area, crews are strongly encouraged to file a Flight Plan; Swanwick (Mil) Flight Plan address EGZYOATT. Failure to file a Flight Plan may result in delays. Hours: H24 Permanently available.
UK ORBIT AREA 13 LOBE 01 A circle, 15 NM radius, centred at 552500N 0010800E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 13 LOBE 02 A circle, 15 NM radius, centred at 544700N 0003000E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
UK ORBIT AREA 13 LOBE 03 A circle, 15 NM radius, centred at 545700N 0012700E			Air-1Gp-ISTAR Sentry SO2, Tel: 01522-726448.	
NORTHERN OSA 590000N 0013755E - then along the North Sea Median Line (eastern limit of published Aberdeen Sector) to 560510N 0031455E - 560441N 0024328E - 571227N 0015238W then anti-clockwise around eastern boundary of the Aberdeen CTR/CTZ - 571948N 0015717W - (HACKLEY HD) then along the coastline anti-clockwise to 574044N 0015652W - 590000N 0013930W - 590000N 0013755E	Upper limit: FL100 Lower limit: SFC	Aberdeen Radar.	SARG - Airspace Regulation.	Off-shore helicopter CAT. This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure.
SOUTHERN OSA 533544N 0015732E - 533328N 0021621E - 532200N 0023900E - 531143N 0025505E - 523612N 0014423E - then along the coastline to 525242N 0012618E - 532132N 0013545E - 532838N 0014150E - 533544N 0015732E	Upper limit: 3500 FT ALT Lower limit: SFC	Anglia Radar.	SARG - Airspace Regulation.	Off-shore helicopter CAT. This coastline definition is a generalisation of the geographic feature; operators must not use this as a definitive boundary and are responsible for applying appropriate measures to ensure they operate within or outside of the airspace structure.
MET RESEARCH FLIGHTS AREA ALPHA 533000N 0010000W - 500000N 0010000W following the line of latitude to - 500000N 0020000W - 485000N 0080000W - 510000N 0080000W - 522000N 0053000W - 533000N 0053000W - 533000N 0010000W	Upper limit: FL350 Lower limit: SFC	Activity areas, dates and times will be the subject of a NOTAM issued 24 hours in advance.	Directflight Ltd, Tel: 01234-817930, Fax: 01234-480701, Mobile: 07464-549161, E-mail: ara-ops@airtask.com.	The research flight aircraft will be BAe 146-301. Reg: G-LUXE. Callsign: AIRTASK146. Flights may include ultra-low level flying (down to 100 FT AGL) and the dispensing of small, lightweight, parachute assisted, drop sondes. Sorties will be mainly conducted under Military ATC services. Hours: Activated by NOTAM.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
MET RESEARCH FLIGHTS AREA BRAVO 533000N 0030000W following the line of latitude to - 533000N 0053000W - 535500N 0053000W - 542500N 0081000W - 552000N 0065500W - 552600N 0072000W - 552000N 0081600W - 544500N 0090000W - 543500N 0100000W - 610000N 0100000W following the line of latitude to - 610000N 0030000W - 533000N 0030000W	Upper limit: FL350 Lower limit: SFC	Activity areas, dates and times will be the subject of a NOTAM issued 24 hours in advance.	Directflight Ltd, Tel: 01234-817930, Fax: 01234-480701, Mobile: 07464-549161, E-mail: ara-ops@airtask.com.	The research flight aircraft will be BAe 146-301. Reg: G-LUXE. Callsign: AIRTASK146. Flights may include ultra-low level flying (down to 100 FT AGL) and the dispensing of small, lightweight, parachute assisted, drop sondes. Sorties will be mainly conducted under Military ATC services. Hours: Activated by NOTAM.
MET RESEARCH FLIGHTS AREA CHARLIE 533000N 0030000W - 610000N 0030000W following the line of latitude to - 610000N 0000000E - 600000N 0000000E - 570000N 0050000E - 550000N 0050000E - 533000N 0034000E - 533000N 0030000W	Upper limit: FL350 Lower limit: SFC	Activity areas, dates and times will be the subject of a NOTAM issued 24 hours in advance.	Directflight Ltd, Tel: 01234-817930, Fax: 01234-480701, Mobile: 07464-549161, E-mail: ara-ops@airtask.com.	The research flight aircraft will be BAe 146-301. Reg: G-LUXE. Callsign: AIRTASK146. Flights may include ultra-low level flying (down to 100 FT AGL) and the dispensing of small, lightweight, parachute assisted, drop sondes. Sorties will be mainly conducted under Military ATC services. Hours: Activated by NOTAM.
MET RESEARCH FLIGHTS AREA DELTA 533000N 0010000W following the line of latitude to - 533000N 0034000E - 513000N 0020000E - 510700N 0020000E - 510000N 0013000E - 504000N 0013000E - 500000N 0001500W following the line of latitude to - 500000N 0010000W - 533000N 0010000W	Upper limit: FL350 Lower limit: SFC	Activity areas, dates and times will be the subject of a NOTAM issued 24 hours in advance.	Directflight Ltd, Tel: 01234-817930, Fax: 01234-480701, Mobile: 07464-549161, E-mail: ara-ops@airtask.com.	The research flight aircraft will be BAe 146-301. Reg: G-LUXE. Callsign: AIRTASK146. Flights may include ultra-low level flying (down to 100 FT AGL) and the dispensing of small, lightweight, parachute assisted, drop sondes. Sorties will be mainly conducted under Military ATC services. Hours: Activated by NOTAM.
UK OPERATING AREA A1 594551N 0083822W - 585614N 0063558W thence clockwise by the arc of a circle radius 10 NM centred on 584830N 0064809W to 584046N 0070015W - 593000N 0090217W thence clockwise by the arc of a circle radius 10 NM centred on 593756N 0085022W to 594551N 0083822W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA A2 601951N 0065322W thence clockwise by the arc of a circle radius 10 NM centred on 601409N 0063652W to 600826N 0062028W - 590240N 0074936W thence clockwise by the arc of a circle radius 10 NM centred on 590812N 0080543W to 591343N 0082156W - 601951N 0065322W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK OPERATING AREA B1 604100N 0045539W - 592114N 0045150W thence clockwise by the arc of a circle radius 10 NM centred on 592059N 0051121W to 592040N 0053053W - 604025N 0053618W thence clockwise by the arc of a circle radius 10 NM centred on 604044N 0051558W to 604100N 0045539W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA B2 595907N 0033548W - 595832N 0005634W thence clockwise by the arc of a circle radius 10 NM centred on 594834N 0005707W to 593836N 0005739W - 593910N 0033518W thence clockwise by the arc of a circle radius 10 NM centred on 594909N 0033533W to 595907N 0033548W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA B3 604321N 0030104W - 600350N 0004059W thence clockwise by the arc of a circle radius 10 NM centred on 595515N 0005107W to 594640N 0010110W - 602549N 0032025W thence clockwise by the arc of a circle radius 10 NM centred on 603435N 0031047W to 604321N 0030104W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA B4 604359N 0033137W - 604156N 0004849W thence clockwise by the arc of a circle radius 10 NM centred on 603158N 0004945W to 602200N 0005041W - 602403N 0033150W thence clockwise by the arc of a circle radius 10 NM centred on 603401N 0033143W to 604359N 0033137W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA C1 585616N 0004732W thence clockwise by the arc of a circle radius 10 NM centred on 584752N 0003709W to 583927N 0002651W - 575538N 0023334W thence clockwise by the arc of a circle radius 10 NM centred on 580353N 0024409W to 581207N 0025448W - 585616N 0004732W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA C2 593317N 0000114W - 582137N 0010646E thence clockwise by the arc of a circle radius 10 NM centred on 581717N 0004941E to 581255N 0003241E - 592416N 0003613W thence clockwise by the arc of a circle radius 10 NM centred on 592848N 0001846W to 593317N 0000114W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA D1 573015N 0030218W thence clockwise by the arc of a circle radius 10 NM centred on 572632N 0024507W to 572246N 0022800W - 561320N 0031859W thence clockwise by the arc of a circle radius 10 NM centred on 561700N 0033540W to 562037N 0035224W - 573015N 0030218W	Upper limit: FL350 Lower limit: FL290		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA E1 563737N 0021052W - 553503N 0014659W thence clockwise by the arc of a circle radius 10 NM centred on 553258N 0020413W to 553051N 0022125W - 563318N 0024611W thence clockwise by the arc of a circle radius 10 NM centred on 563529N 0022833W to 563737N 0021052W	Upper limit: FL350 Lower limit: FL290		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK OPERATING AREA E2 571222N 0011443W - 564624N 0010334E thence clockwise by the arc of a circle radius 10 NM centred on 563701N 0005724E to 562738N 0005117E - 565323N 0012600W thence clockwise by the arc of a circle radius 10 NM centred on 570252N 0012023W to 571222N 0011443W	Upper limit: FL350 Lower limit: FL290		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA F1 560307N 0004123W - 560207N 0015906E thence clockwise by the arc of a circle radius 10 NM centred on 555208N 0015833E to 554210N 0015801E - 554310N 0004105W thence clockwise by the arc of a circle radius 10 NM centred on 555309N 0004114W to 560307N 0004123W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA F2 575332N 0013156E - 564100N 0023329E thence clockwise by the arc of a circle radius 10 NM centred on 563653N 0021659E to 563244N 0020033E - 574500N 0005808E thence clockwise by the arc of a circle radius 10 NM centred on 574917N 0011500E to 575332N 0013156E	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA G1 561150N 0030026E - 550744N 0034935E thence clockwise by the arc of a circle radius 10 NM centred on 550348N 0033335E to 545950N 0031738E - 560343N 0022747E thence clockwise by the arc of a circle radius 10 NM centred on 560748N 0024405E to 561150N 0030026E	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA H1 525902N 0001238W - 524409N 0012457E thence clockwise by the arc of a circle radius 9.5 NM centred on 523458N 0012059E to 522548N 0011702E - 524035N 0001955W thence clockwise by the arc of a circle radius 9.5 NM centred on 524949N 0001617W to 525902N 0001238W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA I1 512330N 0061525W - 512222N 0042342W thence clockwise by the arc of a circle radius 10 NM centred on 511223N 0042410W to 510224N 0042437W - 510332N 0061532W thence clockwise by the arc of a circle radius 10 NM centred on 511331N 0061528W to 512330N 0061525W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA J1 510503N 0072102W thence clockwise by the arc of a circle radius 10 NM centred on 510502N 0070511W to 510459N 0064919W - 494704N 0065011W thence clockwise by the arc of a circle radius 10 NM centred on 494707N 0070537W to 494708N 0072102W - 510503N 0072102W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA J2 505939N 0054841W thence clockwise by the arc of a circle radius 10 NM centred on 505318N 0053629W to 504656N 0052420W - 494501N 0064311W thence clockwise by the arc of a circle radius 10 NM centred on 495115N 0065514W to 495728N 0070721W - 505939N 0054841W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS (continued)

Name Lateral Limits	Vertical Limits	Advisory Measures	Authority responsible for information	Remarks Activity times
1	2	3	4	5
UK OPERATING AREA J3 500313N 0073725W - 500312N 0053317W thence clockwise by the arc of a circle radius 10 NM centred on 495313N 0053330W to 494314N 0053343W - 494314N 0073700W thence clockwise by the arc of a circle radius 10 NM centred on 495314N 0073712W to 500313N 0073725W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA K1 570124N 0081707W thence clockwise by the arc of a circle radius 10 NM centred on 565722N 0080023W to 565319N 0074343W - 554014N 0084131W thence clockwise by the arc of a circle radius 10 NM centred on 554410N 0085745W to 554804N 0091403W - 570124N 0081707W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.
UK OPERATING AREA K2 562100N 0092451W - 560229N 0070533W thence clockwise by the arc of a circle radius 10 NM centred on 555249N 0070957W to 554308N 0071419W - 560130N 0093232W thence clockwise by the arc of a circle radius 10 NM centred on 561115N 0092842W to 562100N 0092451W	Upper limit: FL350 Lower limit: FL270		Air-1Gp-ISTAR E-7 SO2 (Tel: 01343-815801).	Hours: H24 Permanently available.

ENR 5.4 AIR NAVIGATION OBSTACLES

En-route Obstacles

To satisfy the requirement for the provision of Area 1 Obstacles (the height of which is 100 M or more AGL), an electronic file is available by selecting the Area 1 Obstacles File (ENR 5.4) link from the list available on the Current IAIP website (updated each AIRAC).

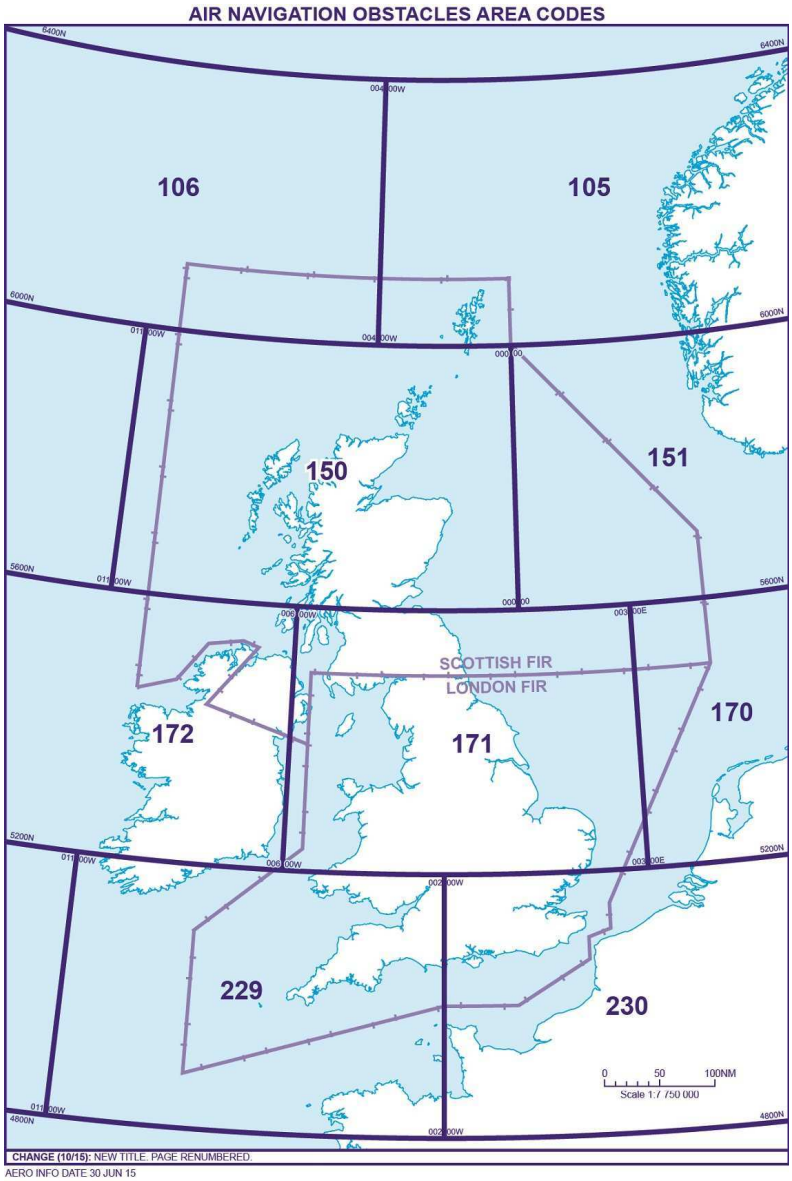
http://www.nats.aero/ais.

Mountains and Hills with Warning Lights

Designation/ Identification	Obstacle Type	Obstacle Position	Elevation/Height		Obstacle Lighting	Remarks
1	2	3	4		5	6
	Bohill Mt, Co Antrim	543600N 0060554W	871 FT	UNKNOWN	Yes Red	
	Church Hill, Co Fermanagh	542745N 0075403W	1126 FT	UNKNOWN	Yes Red	
	Bredon Hill, Worcestershire	520328N 0020304W	1046 FT	UNKNOWN	Yes Red	

Those conspicuous mountains and hills listed above are regarded as hazardous to aviation and are marked by red obstacle lights.

Air Navigation Obstacles Area Codes



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ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
ABERDEEN ROYAL INFIRMARY HOSPITAL HELICOPTER LANDING SITE 570909N 0020806W			Site elevation: 170 FT AMSL.
ABERFFRAW KITE FLYING SITE, ISLE OF ANGLESEY A circle, 1 NM radius, centred at 531055N 0042921W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 14 FT AMSL. VFR ID: K6 Hours: SR-SS. Activated by NOTAM.
ABOYNE GLIDER SITE, GRAMPIAN (T) 570430N 0025005W		Phone: Deeside Gliding Club 013398-85339.	Freq: 118.665. Site elevation: 460 FT AMSL. Hours: HJ
AINTREE HOSPITAL HELICOPTER LANDING SITE 532755N 0025545W			Site elevation: 64 FT AMSL.
ALDEBURGH KITE FLYING SITE, SUFFOLK A circle, 1 NM radius, centred at 520953N 0013626E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 14 FT AMSL. VFR ID: K7 Hours: SR-SS. Activated by NOTAM.
ALDER HEY HOSPITAL HELICOPTER LANDING SITE 532507N 0025356W			Site elevation: 138 FT AMSL.
ANDREAS GLIDER SITE, ISLE OF MAN (AD) (W) 542210N 0042524W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 110 FT AMSL. Hours: HJ
ANDREAS MICROLIGHT SITE (ISLE OF MAN) 542210N 0042524W			Site elevation: 110 FT AMSL.
ASTON DOWN GLIDER SITE, NR STROUD, (AD) (W AND T) 514228N 0020750W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Cotswold Gliding Club 01285-702100 (Office) Mon-Sat 1000-1500 (0900-1400) / 01285-702101 (Clubhouse).	Freq: 118.665. Strictly PPR. Site elevation: 600 FT AMSL. Hours: HJ
ATHEY'S MOOR MICROLIGHT SITE 551859N 0014712W		Phone: 01665-570148.	Site elevation: 413 FT AMSL.
AUCHENCORTH KITE FLYING SITE, MIDLOTHIAN A circle, 0.6 NM radius, centred at 554815N 0031525W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: 07834-523893.	Site elevation: 880 FT AMSL. Active only August-October. VFR ID: K8 Hours: 0800-SS (0700-SS).
BAGBY MICROLIGHT SITE (THIRSK) 541240N 0011724W			Site elevation: 160 FT AMSL.
BAGBY TRAINING AERODROME 541230N 0011736W		Phone: 01845-597385 Email: info@bagbyairfield.com.	Site elevation: 160 FT AMSL. Training Aerodrome.
BALADO TRAINING AERODROME 561300N 0032737W		Phone: 07795-578072.	PPR. Channel: 118.605. Site elevation: 423 FT AMSL. Training Aerodrome.
BALDOCK MODEL AIRCRAFT FLYING, HERTFORDSHIRE 515905N 0000955W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07710-924721.	Site elevation: 260 FT AMSL. VFR ID: M1 Hours: HJ
BARDNEY MODEL AIRCRAFT FLYING, LINCOLNSHIRE 531318N 0001720W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: 07460-662730.	Site elevation: 30 FT AMSL. VFR ID: M14 Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
BARDSEA KITE FLYING SITE, ULVERSTON SANDS, CUMBRIA A circle, 1 NM radius, centred at 540932N 0030413W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 16 FT AMSL. VFR ID: K9 Hours: SR-SS. Activated by NOTAM.
BEACHY HEAD KITE FLYING SITE, EAST SUSSEX A circle, 1 NM radius, centred at 504414N 0001437E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 412 FT AMSL. VFR ID: K10 Hours: SR-SS. Activated by NOTAM.
BECCLES PARACHUTE SITE, SUFFOLK A circle, 1.5 NM radius, centred at 522612N 0013710E	Upper limit: FL130 Lower limit: SFC	Phone: 01953-861030. Norwich ATC: 01603-420641. London Control (Swanwick): 01489-612420.	Activity notified on the day to Norwich ATC or London Control (Swanwick) outside hours of Norwich. Alternative contact: 119.355 MHz (Norwich ATC) or 124.600 MHz (London Control (Swanwick)). Hours: Normally during daylight hours.
BECCLES TRAINING AERODROME 522607N 0013706E		Rain Air Phone: 07767-827172 Phone: 01502-476400 Fax: 01502-476400	Site elevation: 80 FT AMSL. Training Aerodrome.
BEDLANDS GATE MICROLIGHT SITE 543414N 0024015W			Site elevation: 850 FT AMSL.
BEELEY MOOR, MODEL AIRCRAFT FLYING, NORTH EAST DERBYSHIRE 531154N 0013254W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: Blue Sky Aeromodellers 07796-998362.	Site elevation: 1100 FT AMSL. VFR ID: M23 Hours: SR-SS.
BELFAST ROYAL VICTORIA HOSPITAL HELICOPTER LANDING SITE 543539N 0055719W			Site elevation: 208 FT AMSL.
BELLARENA GLIDER SITE, CO LONDONDERRY (T) 550836N 0065757W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Ulster Gliding Club 028-7776 3321, 028-7775 0301 (weekends only).	Site elevation: 15 FT AMSL. Hours: HJ
BELLE VUE MICROLIGHT SITE 505829N 0040524W			Site elevation: 675 FT AMSL.
BEMBRIDGE GLIDER SITE, ISLE OF WIGHT (AD) (T) 504041N 0010633W		Phone: Vectis Gliding Club.	Site elevation: 55 FT AMSL. Hours: HJ
BENONE STRAND GLIDER SITE, CO LONDONDERRY (W) 551000N 0065133W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Ulster Gliding Club 028-7775 0301.	Site elevation: SL. Hours: HJ
BENTWATERS UNUSUAL ACT AERODROME 520740N 0012610E		Phone: Bentwaters Parks Limited 01394-460655.	Site elevation: 103 FT AMSL. Unusual Activity.
BEVERLEY / LINLEY HILL AIRFIELD TRAINING AERODROME 535353N 0002141W		Phone: 01964-544994 Email: info@hullaeroclub.co.uk.	Site elevation: 3 FT AMSL. Training Aerodrome.
BICESTER AERODROME GLIDER SITE, OXON (AD) (T) 515458N 0010756W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Bicester Aerodrome Company Limited 01869-254841.	Strictly PPR. Freq: 118.390 MHz. Site elevation: 267 FT AMSL. Hours: HJ
BIDFORD GLIDER SITE, WARWICKS (T) 520803N 0015103W		Phone: Bidford Gliding and Flying Club 01789-778807.	Site elevation: 135 FT AMSL. Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
BINHAM MODEL AIRCRAFT FLYING, NORFOLK 525523N 0005743E	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07710-924721.	Site elevation: 90 FT AMSL. VFR ID: M2 Hours: HJ
BIRMINGHAM QUEEN ELIZABETH HOSPITAL HELICOPTER LANDING SITE 522710N 0015641W			Site elevation: 564 FT AMSL.
BLACKPOOL & FYLDE MODEL AIRCRAFT FLYING, PRESTON, LANCS 534827N 0025643W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: Blackpool & Fylde Radio Controlled Model Society 07771-370260.	Site elevation: 66 FT AMSL. VFR ID: M27 Hours: HJ
BOGNOR REGIS GLIDER SITE, LEC AIRFIELD, BOGNOR REGIS (W) 504804N 0003934W	Upper limit: 2500 FT AGL Lower limit: SFC	Phone: BR Aviation Ltd, Bognor Regis Gliding Club.	Site elevation: 10 FT AMSL. Hours: HJ
BONNINGTON MICROLIGHT SITE 510332N 0005653E		Phone: 07785-346718.	Site elevation: 3 FT AMSL.
BOSCOMBE DOWN PARACHUTE SITE, WILTS A circle, 1.5 NM radius, centred at 510900N 0014500W	Upper limit: FL150 Lower limit: SFC	Phone: Opr/User - Various. Boscombe Down ATC: 01980-663051/663052.	Activity subject to permission from Boscombe Down ATC.
BRADWELL ON SEA KITE FLYING SITE, ESSEX A circle, 1 NM radius, centred at 514407N 0005624E	Upper limit: 2400 FT AGL Lower limit: SFC		Site elevation: 20 FT AMSL. VFR ID: K11 Hours: SR-SS. Activated by NOTAM.
BRAITHWAITE FARM HANGGLIDER SITE NEAR KESWICK, CUMBRIA A circle, 2 NM radius, centred at 543626N 0031054W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 250 FT AMSL. Hours: Sat, Sun & PH 0800-1700.
BREIGHTON UNUSUAL ACT AERODROME 534807N 0005451W		Phone: 01757-289065 Email: rac-ops@tiscali.co.uk.	Site elevation: 20 FT AMSL. Unusual Activity.
BRENT TOR GLIDER SITE, NR TAVISTOCK, DEVON (W) 503517N 0040850W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Dartmoor Gliding Club 01822-810712.	Freq: 129.965. Site elevation: 820 FT AMSL. Hours: HJ
BRIDLINGTON PARACHUTE SITE, YORKS A circle, 1.5 NM radius, centred at 540713N 0001411W	Upper limit: FL150 Lower limit: SFC	Phone: 01262-677367. London Control (Swanwick): 01489-612420.	Activity notified on the day to London Control (Swanwick). Alternative contact: 129.905 MHz. Hours: Normally during daylight hours.
BRIMPTON MICROLIGHT SITE, BERKSHIRE (AD) 512302N 0011012W		Phone: 0118-3246888.	Site elevation: 190 FT AMSL. Situated inside EGR101 and strictly PPR. Model flying activities. Hours: 0800-SS (0700-SS).
BRIMPTON TRAINING AERODROME 512302N 0011012W		Phone: 0118-3246888.	Site elevation: 190 FT AMSL. Training Aerodrome.
BRISTOL ROYAL INFIRMARY HOSPITAL HELICOPTER LANDING SITE 512732N 0023546W			Site elevation: 215 FT AMSL.
BRISTOL SOUTHMEAD HOSPITAL HELICOPTER LANDING SITE 512937N 0023533W			Site elevation: 238 FT AMSL.
BUCKNALL MICROLIGHT SITE 531159N 0001516W			Site elevation: 50 FT AMSL.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
BURN GLIDER SITE, SELBY, YORKSHIRE (AD) (W AND T) 534445N 0010504W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Burn Gliding Club 01757-270296.	Freq: 130.290. Site elevation: 20 FT AMSL. Hours: HJ
BURNHAM ON SEA KITE FLYING SITE, SOMERSET A circle, 1 NM radius, centred at 511440N 0030005W	Upper limit: 2400 FT AGL Lower limit: SFC		Site elevation: 18 FT AMSL. VFR ID: K12 Hours: SR-SS. Activated by NOTAM.
CADMORE END MODEL AIRCRAFT FLYING, BUCKINGHAMSHIRE 513811N 0005319W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: High Wycombe and District Model Aircraft Club 07808-890650.	Site elevation: 640 FT AMSL. VFR ID: M26 Hours: HJ
CAE MAWR TYDDYN HEN MICROLIGHT SITE, CAERNARFON 530927N 0041404W		Phone: 07833-118821.	Site elevation: 200 FT AMSL. Hours: Daylight hours only.
CALTONMOOR MICROLIGHT SITE, (NR ASHBOURNE), DERBS 530201N 0014959W			Site elevation: 990 FT AMSL.
CAMBER SANDS KITE FLYING SITE, EAST SUSSEX A circle, 1 NM radius, centred at 505546N 0004909E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 19 FT AMSL. VFR ID: K13 Hours: SR-SS. Activated by NOTAM.
CAMBRIDGE ADDENBROOKES HOSPITAL HELICOPTER LANDING SITE 521017N 0000807E			Site elevation: 18 FT AMSL.
CAMPHILL GLIDER SITE, BUXTON, DERBY (W) 531818N 0014353W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Derby Lancs Gliding Club 01298-871270.	Freq: 124.965. Site elevation: 1350 FT AMSL. Hours: HJ
CARK PARACHUTE SITE, CUMBRIA A circle, 1.5 NM radius, centred at 540946N 0025737W	Upper limit: FL145 Lower limit: SFC	Phone: 015395-58672. London Control (Swanwick) 01489-612420. Scottish Control (Prestwick) 01294-655300.	Activity notified on the day to Scottish Control (Prestwick) and London Control (Swanwick). Alternative contact: 129.905 MHz. Hours: Normally during daylight hours Sat, Sun & PH and weekdays by arrangement.
CARSWELL HANGGLIDER SITE, OXFORDSHIRE A circle, 2 NM radius, centred at 514021N 0013146W	Upper limit: 900 FT AGL Lower limit: SFC	Phone: 07507-788855.	Site elevation: 350 FT AMSL. Paramotor Activity remaining clear of controlled airspace. Hours: HJ
CASHMOOR, BLANDFORD MODEL AIRCRAFT FLYING, DORSET 505532N 0020117W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07909-022800.	Site elevation: 340 FT AMSL. VFR ID: M3 Hours: HJ
CATTON MICROLIGHT SITE, WALTON-ON-TRENT, DERBS 524340N 0014006W			Site elevation: 230 FT AMSL.
CAUNTON MICROLIGHT SITE (NR NEWARK ON TRENT) 530713N 0005318W			Site elevation: 160 FT AMSL.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
CHALGROVE PARACHUTE SITE, OXON A circle, 1.5 NM radius, centred at 514032N 0010459W	Upper limit: 5500 FT ALT Lower limit: SFC	Phone: 01865-892200/ 892201. Benson ATC: 01491-837766 Ext 7017. London Control (Swanwick): 023-8040 1102.	Activity notified on the day to Benson ATC or London Control (Swanwick) outside hours of Benson.
CHALLOCK GLIDER SITE, NR ASHFORD, KENT (W AND T) 511230N 0004945E	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Kent Gliding Club 01233-740274.	Strictly PPR. Freq: 122.915. Site elevation: 600 FT AMSL. Hours: HJ
CHAPEL ST LEONARDS KITE FLYING SITE, LINCOLNSHIRE A circle, 1 NM radius, centred at 531455N 0001951E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 13 FT AMSL. VFR ID: K14 Hours: SR-SS. Activated by NOTAM.
CHATTERIS MICROLIGHT SITE (MOUNT PLEASANT) 522910N 0000523E			Site elevation: 5 FT AMSL.
CHATTERIS PARACHUTE SITE, CAMBS A circle, 1.5 NM radius, centred at 522919N 0000512E	Upper limit: FL150 Lower limit: SFC	Phone: 01354-740810. London Control (Swanwick): 01489-612420.	Activity notified on the day to London Control (Swanwick). Alternative contact: 129.905 MHz. Hours: Normally during daylight hours Tue-Sun & PH.
CHIPPING GLIDER SITE, PRESTON, LANCS (AD) (W) 535301N 0023714W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Bowland Forest Gliding Club 01995-61267.	Freq: 118.685 MHz. Site elevation: 600 FT AMSL. Hours: HJ
CHIRK MICROLIGHT SITE 525649N 0030243W			Site elevation: 430 FT AMSL.
CLAYPOLE MODEL AIRCRAFT FLYING, LINCOLNSHIRE 530217N 0004501W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07977-804310.	Site elevation: 60 FT AMSL. VFR ID: M15 Hours: HJ
CLENCH COMMON MICROLIGHT SITE 512314N 0014411W			Site elevation: 623 FT AMSL.
CLEVELEYS KITE FLYING SITE, LANCASHIRE A circle, 1 NM radius, centred at 535300N 0030250W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 29 FT AMSL. VFR ID: K15 Hours: SR-SS. Activated by NOTAM.
COCKERHAM PARACHUTE SITE, LANCS A circle, 1.5 NM radius, centred at 535744N 0025007W	Upper limit: FL150 Lower limit: SFC	Phone: 01524-791820. Scottish Control (Prestwick): 01294-655300. London Control (Swanwick): 01489-612420.	Activity notified on the day to Scottish Control (Prestwick) then London Control (Swanwick). Alternative contact: 129.905 MHz. Hours: Daily 0830 to 2000 local or SS when earlier.
COLDHARBOUR FARM MICROLIGHT SITE 505925N 0005149E		Phone: Kent Microlight Aircraft Club 07773-056397, 07973-479309, 07807-169226.	Site Elevation: 4 FT AMSL. Hours: HJ
COLEMORE COMMON MICROLIGHT SITE , PETERSFIELD, HANTS 510338N 0010035W			Site elevation: 610 FT AMSL.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
COLESDEN MODEL AIRCRAFT FLYING, BEDFORDSHIRE 521200N 0002132W	Upper limit: 1200 FT AGL Lower limit: SFC	Phone: 01462-851515 Ext 4717.	Site elevation: 150 FT AMSL. VFR ID: M16 Hours: HJ
COODEN KITE FLYING SITE, SUSSEX A circle, 1 NM radius, centred at 504944N 0002445E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 0 FT AMSL. VFR ID: K16 Hours: SR-SS. Activated by NOTAM.
COSFORD GLIDER SITE (MIL), WEST MIDLANDS (AD) (W AND T) 523824N 0021820W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Mil Ops 01902-377582. Wrekin Gliding Club 07719-732746.	Strictly PPR. Freq: 135.875 MHz. Site elevation: 271 FT AMSL. Hours: SR to SS+15.
COWTON MOOR MODEL AIRCRAFT FLYING, COUNTY DURHAM 542629N 0013208W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: 01748-812028.	Site elevation: 190 FT AMSL. VFR ID: M17 Hours: HJ
CRANWELL (NORTH) GLIDER SITE, LINCS (AD) (W AND T) 530231N 0002936W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Cranwell Gliding Club 01400 261201 Ext 7230.	Freq: 129.060. Site elevation: 220 FT AMSL. Hours: HJ Sat, Sun, PH & 1700 (1600)-SS Mon-Fri.
CRAVENS GORSE HANGGLIDER SITE, CHARLTON ABBOTS, GLOS A circle, 2 NM radius, centred at 515452N 0015528W	Upper limit: 1000 FT AGL Lower limit: SFC		Site elevation: 886 FT AMSL. Hours: HJ
CROWLAND GLIDER SITE, LINCS (T) 524233N 0000834W		Phone: Peterborough and Spalding Gliding Club 01733-210463.	Freq: 129.980 MHz. Site elevation: 10 FT AMSL. Hours: HJ
CULDROSE GLIDER SITE, CORNWALL (AD) (W AND T) 500510N 0051521W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 267 FT AMSL. Hours: HJ
CULTER HELIPAD TRAINING AERODROME 570711N 0021915W		Phone: 01224-739111.	Site elevation: 300 FT AMSL. Training Aerodrome.
CUMBERLAND INFIRMARY HOSPITAL HELICOPTER LANDING SITE 545350N 0025738W			Site elevation: 86 FT AMSL.
CURROCK HILL GLIDER SITE, NORTHUMBERLAND (W AND T) 545602N 0015043W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Northumbria Gliding Club 01207-561286.	Freq: 125.185. Site elevation: 800 FT AMSL. Hours: HJ
DAIRY HOUSE FARM MICROLIGHT SITE 530623N 0023015W		Phone: 07831-274201.	Site elevation: 150 FT AMSL. PPR. Microlight Training 7 Days a week.
DAMYNS HALL TRAINING AERODROME 513143N 0001444E		Phone: 07496-539206. Email: tony@skymax.co.uk. Website: www.damynshall.co.uk.	Site elevation: 56 FT AMSL. Training Aerodrome. PPR. Freq: 119.555 MHz. Hours: 0900(0800)-SS.
DARLEY MOOR HANGGLIDER SITE, DERBYSHIRE (AD) A circle, 2 NM radius, centred at 525814N 0014454W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 580 FT AMSL. Hours: HJ
DARLEY MOOR MICROLIGHT SITE, DERBS (AD) 525814N 0014454W			Site elevation: 580 FT AMSL.
DARLTON GLIDER SITE, NOTTS (W AND T) 531444N 0005132W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Darlton Gliding Club 07772-704178 (when operating).	Site elevation: 155 FT AMSL. Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
DAVIDSTOW MOOR MICROLIGHT SITE 503815N 0043708W			Site elevation: 969 FT AMSL.
DEVILS DYKE HANGGLIDER SITE, SADDLESCOMBE FARM, W SUSSEX A circle, 2 NM radius, centred at 505233N 0001303W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 666 FT AMSL. Hours: HJ
DREM MODEL AIRCRAFT FLYING, EAST LOTHIAN 560050N 0024738W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07770-746850.	Site elevation: 30 FT AMSL. VFR ID: M18 Hours: HJ
DUNDEE NINEWELLS HOSPITAL HELICOPTER LANDING SITE 562745N 0030230W			Site elevation: 170 FT AMSL.
DUNKESWELL PARACHUTE SITE, DEVON A circle, 1.5 NM radius, centred at 505151N 0031353W	Upper limit: FL150 Lower limit: SFC	Phone: 01404-891690. Exeter ATC: 01392-367433 Ext 215. London Control (Swanwick): 01489-612420.	Activity notified on the day to Exeter ATC or London Control (Swanwick) outside hours of Exeter. Alternative contact: 129.905 MHz or 123.480 MHz. Hours: Normally during daylight hours.
DUNSFOLD UNUSUAL ACT AERODROME 510700N 0003209W		Phone: 01483-200900.	Site elevation: 172 FT AMSL. Unusual Activity.
DUNSTABLE DOWNS GLIDER SITE, BEDS (W AND T) 515200N 0003254W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: London Gliding Club 01582-663419.	Site elevation: 500 FT AMSL. Hours: HJ
EAGLESCOTT GLIDER SITE, DEVON (AD) (W AND T) 505542N 0035922W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: North Devon Gliding Club 01769-520404.	Site elevation: 655 FT AMSL. Hours: HJ
EAGLESCOTT TRAINING AERODROME 505543N 0035922W		Phone: 01769-520404 Email: info@eaglescott-airfield.com.	Site elevation: 655 FT AMSL. Training Aerodrome.
EAST FORTUNE MICROLIGHT SITE 560003N 0024404W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: East of Scotland Microlights AD: 01620-880332; CFI: 01875-820102.	Site elevation: 120 FT AMSL. PPR. Hours: HJ
EAST FORTUNE, MODEL AIRCRAFT FLYING, EAST LOTHIAN 555950N 0024231W	Upper limit: 1200 FT AGL Lower limit: SFC	Phone: East Fortune Aeromodellers 07976-252255.	Site elevation: 120 FT AMSL. VFR ID: M30 Hours: SR-SS
EASTER TRAINING AERODROME 574507N 0035620W		Phone: 01862-871717.	Site elevation: 22 FT AMSL. Training Aerodrome.
EASTERTON GLIDER SITE, NR ELGIN, GRAMPIAN (W AND T) 573508N 0031841W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Highland Gliding Club 01343-860272.	Freq: 130.290. Site elevation: 361 FT AMSL. Hours: HJ
EDGE HILL/SHENNINGTON GLIDER SITE, OXON (AD) (W AND T) 520507N 0012828W	Upper limit: 2500 FT AGL Lower limit: SFC	Phone: Edge Hill Gliding Centre Limited 07548-069341.	Freq: 129.980 MHz. Site elevation: 642 FT AMSL. Hours: HJ
EDINBURGH ROYAL INFIRMARY HOSPITAL HELICOPTER LANDING SITE 555516N 0030813W			Site elevation: 242 FT AMSL.
EGERTON MICROLIGHT SITE 511149N 0004132E		Phone: 07751-828221.	Site elevation: 165 FT AMSL.
ELSWORTH ROCKET SITE A circle, 1 NM radius, centred at 521500N 0000537W	Upper limit: FL75 Lower limit: SFC	Phone: East Anglian Rocketry Society 07813-037022 / 07849-440209.	Site elevation: 189 FT AMSL. VFR ID: R2 Hours: HJ Activated by NOTAM.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
ENNISKILLEN HOSPITAL HELICOPTER LANDING SITE 542204N 0073811W			Site elevation: 158 FT AMSL.
ENSTONE TRAINING AERODROME 515541N 0012542W		Phone: 01608-677208 Email: osf@enstoneaerodrome.co.uk.	Site elevation: 550 FT AMSL. Training Aerodrome.
ERROL PARACHUTE SITE, TAYSIDE A circle, 1.5 NM radius, centred at 562418N 0031055W	Upper limit: FL104 Lower limit: SFC	Phone: 01821-642454. Scottish Control (Prestwick): 01294-655300.	Activity notified on the day to Scottish Control (Prestwick), RAF Leuchars and Dundee ATC. Drops may be made up to, but not including, the base of the overlaying controlled airspace. Alternative contact: 129.905 MHz; Drop Zone Tel: 01738-635347. Hours: Normally during daylight hours Wed-Sun & PH.
EWE FARM MODEL AIRCRAFT FLYING, OXFORDSHIRE 513921N 0010609W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: 01865-891236.	Site elevation: 266 FT AMSL. VFR ID: M29 Hours: HJ
EYRES FIELD GLIDER SITE, GALLOWS HILL, DORSET (W AND T) 504233N 0021310W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Dorset Gliding Club 01929-405599.	Freq: 132.910. Site elevation: 205 FT AMSL. Hours: HJ
FAIRLIE MOOR ROCKET SITE A circle, 1 NM radius, centred at 554336N 0044840W	Upper limit: FL160 Lower limit: SFC	Phone: Scottish Aeronautics and Rocketry Association 07733-250135.	Height Subject to ATC Clearance. Site elevation: 778 FT AMSL. VFR ID: R1 Hours: HJ Activated by NOTAM.
FALGUNZEON GLIDER SITE, DALBEATTIE, DUMFRIES (W) 545638N 0034424W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Dumfries & District Gliding Club 01387-760601.	Freq: 129.965. Site elevation: 600 FT AMSL. Hours: HJ
FESHIEBRIDGE GLIDER SITE, HIGHLANDS (W AND T) 570613N 0035330W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Cairngorm Gliding Club 01540-651317.	Site elevation: 860 FT AMSL. Hours: HJ
FIFE AIRPORT PARACHUTE SITE, GLENROTHES, FIFE A circle, 1.5 NM radius, centred at 561100N 0031313W	Upper limit: FL130 Lower limit: SFC	Phone: 0845-189 5865 or 07885-617418. Edinburgh ATC: 0131-333 6234.	Activity must be notified to and co-ordinated with Edinburgh ATC. Alternative contact: 130.455 MHz. Hours: Sat & Sun 0900-2100 (Winter); Fri 1600-2000, Sat & Sun 0800-2000 (Summer).
FINMERE MICROLIGHT SITE 515907N 0010323W			Site elevation: 395 FT AMSL.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
FISHERWICK MICROLIGHT SITE 524024N 0014325W		Phone: 07951-635207.	Site elevation: 184 FT AMSL. PPR. Microlight training 7 days a week. Hours: 0800-SS+30 (0700-SS+30).
FLEETWOOD KITE FLYING SITE, LANCASHIRE A circle, 1 NM radius, centred at 535544N 0030031W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 18 FT AMSL. VFR ID: K17 Hours: SR-SS. Activated by NOTAM.
FOWLMERE TRAINING AERODROME 520439N 0000342E		Phone: 01763-208281 Email: dg@modair.co.uk.	Site elevation: 117 FT AMSL. Training Aerodrome.
GLASGOW CLYDEBANK HOSPITAL HELICOPTER LANDING SITE 555417N 0042524W			Site elevation: 12 FT AMSL.
GLASGOW QUEEN ELIZABETH HOSPITAL HELICOPTER LANDING SITE 555142N 0042032W			Site elevation: 233 FT AMSL.
GLASSONBY MICROLIGHT SITE (PENRITH) 544418N 0023905W		Phone: 01768-898382.	Site elevation: 600 FT AMSL.
GLIDDEN FARM MICROLIGHT SITE, PORTSMOUTH, HANTS 505603N 0010318W			Site elevation: 450 FT AMSL.
GRANGE UNIVERSITY HOSPITAL HELICOPTER LANDING SITE 513902N 0025944W			Site elevation: 315 FT AMSL.
GRANSDEN LODGE GLIDER SITE, CAMBRIDGE (AD) (W AND T) 521041N 0000653W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Cambridge Gliding Club 01767-677077.	Site elevation: 254 FT AMSL. Hours: HJ
GRAVELEY MICROLIGHT SITE 515628N 0001212W			Site elevation: 395 FT AMSL.
GREAT FRANSHAM HANGGLIDER SITE, NORFOLK A circle, 2 NM radius, centred at 524059N 0004855E	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 220 FT AMSL. Hours: HJ
GREAT MASSINGHAM TRAINING AERODROME 524644N 0004021E		Phone: 01485-520257.	Site elevation: 295 FT AMSL. Training Aerodrome.
GREAT OAKLEY TRAINING AERODROME 515400N 0011018E		Phone: 01255-880045 Email: tim.spurge@btconnect.com.	Site elevation: 60 FT AMSL. Training Aerodrome.
GREAT WESTERN HOSPITAL HELICOPTER LANDING SITE 513214N 0014340W			Site elevation: 405 FT AMSL.
GROVE FARM MICROLIGHT SITE 522950N 0013222E		Phone: 01502-713125.	Site elevation: 102 FT AMSL.
HALESLAND GLIDER SITE, AVON (AD) (W AND T) 511544N 0024356W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Mendip Gliding Club 01749-870312.	Freq: 129.060. Site elevation: 870 FT AMSL. Hours: HJ
HALTON GLIDER SITE (MIL), BUCKS (AD) (W AND T) 514733N 0004416W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Mil Ops 01296-656367.	Strictly PPR. Channel: 130.430. Site elevation: 370 FT AMSL. Hours: 0900-2000 (0800-1900) or SS+15 (Whichever is earlier).

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
HALWELL MICROLIGHT SITE, SOUTH DEVON 502155N 0034235W			Site elevation: 623 FT AMSL.
HAREFIELD MODEL AIRCRAFT FLYING, MIDDLESEX 513730N 0002917W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: West London Model Aeroplane Club 07764-991001.	Site elevation: 263 FT AMSL. VFR ID: M32 Hours: HJ
HARRINGE COURT FARM MICROLIGHT SITE 510531N 0005918E		Phone: Kent Microlight Aircraft Club 07773-056397, 07973-479309, 07807-169226.	Site Elevation: 279 FT AMSL. Hours: HJ
HAWKSVIEW MICROLIGHT SITE 532032N 0023133W		Phone: 07860-558707.	Strictly PPR. Site elevation: 220 FT AMSL.
HENSTRIDGE TRAINING AERODROME 505930N 0022130W		Phone: 01963-364231.	Site elevation: 184 FT AMSL. Training Aerodrome.
HIBALDSTOW PARACHUTE SITE, HUMBERSIDE A circle, 1.5 NM radius, centred at 532956N 0003048W	Upper limit: FL120 Lower limit: SFC	Phone: 01652-648837. Humberside ATC: 01652-688456.	Activity subject to permission from Humberside ATC. Drops may be made from up to FL 150 with Scottish Control (Prestwick) permission. Alternative contact: 129.925 MHz. Hours: Normally during daylight hours.
HIGH TREES FARM MICROLIGHT SITE 525115N 0015249W			Site Elevation: 420 FT AMSL.
HILL TOP FARM MICROLIGHT SITE 530530N 0002524W		Phone: 07838-352764.	Strictly PPR. Site elevation: 110 FT AMSL. Hours: HJ
HINTON-IN-THE-HEDGES GLIDER SITE, OXON (AD) (W AND T) 520145N 0011229W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Banbury Gliding Club 01295-811056.	Site elevation: 500 FT AMSL. Hours: HJ
HINTON-IN-THE-HEDGES PARACHUTE SITE, BANBURY, OXON A circle, 1.5 NM radius, centred at 520136N 0011216W	Upper limit: FL65 Lower limit: SFC	Phone: 01295-812300. Brize Norton ATC: 01993-897785.	Activity notified on the day to Brize Norton ATC. Drops may be made from up to FL 150 with London Control (Swanwick) permission. Alternative contact: 119.455 MHz (up to 3000 FT) then 129.905 MHz. Hours: Normally during daylight hours Tue-Sun & PH.
HOGHTON MICROLIGHT SITE 534443N 0023621W		Phone: 07754-628612.	Site elevation: 207 FT AMSL.
HOLESTONE MOOR KITE FLYING SITE, NEAR ASHOVER A circle, 0.5 NM radius, centred at 530842N 0012941W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: 07860-331351.	Site elevation: 918 FT AMSL. VFR ID: K18 Hours: SR-SS.
HOLYHEAD KITE FLYING SITE, ANGLESEY A circle, 1 NM radius, centred at 531721N 0044007W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 102 FT AMSL. VFR ID: K19 Hours: SR-SS. Activated by NOTAM.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
HONINGTON GLIDER SITE (MIL), SUFFOLK (AD) (W AND T) 522036N 0004648E	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: 611 VGS 07776-226957 (Duty Supervisor Mobile).	Strictly PPR via Honington Ops. Freq: 124.105 MHz (Honington Radio). Site elevation: 174 FT AMSL. Hours: Sat-Sun & PHs, SR to SS+15 (all other times by NOTAM).
HOUGHAM MICROLIGHT SITE (GLEBE FARM) 530022N 0004114W			Site elevation: 80 FT AMSL.
HUNSDON MICROLIGHT SITE 514825N 0000416E			Site elevation: 254 FT AMSL.
HUNSTANTON KITE FLYING SITE, NORFOLK A circle, 1 NM radius, centred at 525803N 0003127E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 18 FT AMSL. VFR ID: K20 Hours: SR-SS. Activated by NOTAM.
HUSBANDS BOSWORTH GLIDER SITE, LEICS (AD) (W AND T) 522626N 0010238W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: The Gliding Centre 01858-880521.	Site elevation: 505 FT AMSL. Hours: HJ
HUSTHWAITE MICROLIGHT SITE (BAXBY) 540925N 0011354W			Site elevation: 132 FT AMSL.
ICKENHAM MODEL AIRCRAFT FLYING, MIDDLESEX 513330N 0002553W	Upper limit: 400 FT AGL Lower limit: SFC	Phone: The Flying Fish 07770-852931.	Site elevation: 110 FT AMSL. Site lies within RAF Northolt ATZ. VFR ID: M25 Hours: HJ
INCE MICROLIGHT SITE 533158N 0030139W			Site elevation: 10 FT AMSL.
INVERNESS RAIGMORE HOSPITAL HELICOPTER LANDING SITE 572835N 0041140W			Site elevation: 95 FT AMSL.
IPSWICH GENERAL HOSPITAL HELICOPTER LANDING SITE 520320N 0011203E			Site elevation: 125 FT AMSL.
ISLE OF PORTLAND KITE FLYING SITE, DORSET A circle, 1 NM radius, centred at 503050N 0022722W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 27 FT AMSL. VFR ID: K21 Hours: SR-SS. Activated by NOTAM.
JAMES COOK MIDDLESBROUGH HOSPITAL HELICOPTER LANDING SITE 543304N 0011304W			Site elevation: 56 FT AMSL.
JOHN RADCLIFFE HOSPITAL HELICOPTER LANDING SITE 514558N 0011318W			Site elevation: 296 FT AMSL.
KEEVIL GLIDER SITE, WILTS (AD) (W & T) 511850N 0020643W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Bannerdown Gliding Club 01380-870411.	Freq: 130.290. Site elevation: 200 FT AMSL. Hours: HJ
KEEVIL PARACHUTE SITE, WILTS A circle, 2 NM radius, centred at 511851N 0020637W	Upper limit: FL150 Lower limit: SFC	Phone: Opr/User - Various. Brize Norton ATC: 01993-895521/896814/896804.	Airfield used for gliding, free-fall parachuting and heavy supply drops from military Hercules aircraft. Supply drops may take place at any time within 2 NM and below 2000 FT. Hours: Activated by NOTAM.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
KENLEY GLIDER SITE (MIL), SURREY (AD) (W) 511821N 0000536W	Upper limit: 1700 FT AGL Lower limit: SFC	Airfield Duty Supervisor during notified hours: 615 VGS (weekends and PHs) 07920-782194. Surrey Hills Gliding Club (weekdays except PHs) 07477-878845. Aerodrome Operator Tel Syerston Ops: 01400-264520, Email: SYE-2FTS-HQ-OpsOC@mod.gov.uk.	Freq: 119.760 MHz. Site elevation: 565 FT AMSL. Note 1: Civ and Mil AGCS available during notified hours. Note 2: PNR for Military/Police aircraft. PPR for civil aircraft not available. Hours: SR to SS+15.
KENNEL FARM HANGGLIDER SITE, WARLINGHAM, SURREY A circle, 2 NM radius, centred at 511849N 0000229W	Upper limit: 500 FT AGL Lower limit: SFC		Site elevation: 590 FT AMSL. Hours: HJ
KERNAN MICROLIGHT SITE 542311N 0062359W		Phone: Kernan Aviation 07711-841492.	Site elevation: 65 FT AMSL.
KETTLE FIELD MODEL AIRCRAFT FLYING, HOLYWELL, NORTH WALES 531611N 0031823W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: Delyn Model Flying Club 07940-351819.	Site elevation: 620 FT AMSL. VFR ID: M24 Hours: SR-SS.
KEYSLEY DOWN MODEL AIRCRAFT FLYING, WILTSHIRE 510717N 0021048W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07962-013388.	Site elevation: 650 FT AMSL. VFR ID: M4 Hours: HJ
KILLYKERGAN PARACHUTE SITE, CO LONDONDERRY A circle, 1.5 NM radius, centred at 550103N 0063951W	Upper limit: FL150 Lower limit: SFC	Phone: 028-2955 8609. Londonderry/Eglinton ATC: 028-7181 1099. Scottish Control (Prestwick): 01294-655300.	Activity notified on the day to Londonderry/Eglinton ATC or Scottish Control (Prestwick) outside hours of Londonderry/Eglinton. Area overlaps Movenis drop Zone. Alternative contact: 129.905 MHz. Hours: Normally during daylight hours.
KINGS COLLEGE HOSPITAL HELICOPTER LANDING SITE 512805N 0000531W			Site elevation: 195 FT AMSL.
KINGS FARM MICROLIGHT SITE, RUTLAND 523702N 0003611W			Site elevation: 210 FT AMSL. Hours: HJ
KINGS LYNN HOSPITAL HELICOPTER LANDING SITE 524518N 0002650E			Site elevation: 40 FT AMSL.
KIRKBRIDE MICROLIGHT SITE 545256N 0031220W			Site elevation: 38 FT AMSL.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
KIRKNEWTON GLIDER SITE (MIL), LOTHIAN (AD) (W) 555234N 0032400W	Upper limit: 3000 FT AGL Lower limit: SFC	Airfield Duty Supervisor during notified hours: 07920-782209. Aerodrome Operator Tel Syerston Ops: 01400-264520, Email: SYE-2FTS-HQ-OpsOC@mod.gov.uk.	Channel: 121.205 (Edinburgh APP); 124.105 (VGS). Site elevation: 652 FT AMSL. Note 1: PNR for Military aircraft. PPR for civil aircraft not available. Note 2: Site located within Edinburgh CTZ. Hours: Sat-Sun & PHs, SR to SS+15 (all other times by NOTAM).
KIRTON-IN-LINDSEY GLIDER SITE, LINCS (AD) (W AND T) 532745N 0003436W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Trent Valley Gliding Club 01652-648777.	Site elevation: 203 FT AMSL. Hours: HJ
LANGAR PARACHUTE SITE, NOTTS A circle, 1.5 NM radius, centred at 525338N 0005416W	Upper limit: FL150 Lower limit: SFC	Phone: 01949-860878. East Midlands Airport ATC: 01332-852993. London Control (Swanwick) 01489-612420.	Activity notified on the day to East Midlands Airport EGNX and London Control (Swanwick). Langar parachuting contact: 122.240. Alternative contact: East Midlands Radar 134.180 or London Information 124.600 MHz. Hours: Normally during daylight hours.
LANGFORD KITE FLYING SITE, NEAR CULLOMPTON, DEVON A circle, 1 NM radius, centred at 505000N 0032300W	Upper limit: 800 FT AGL Lower limit: SFC	Phone: 07780-825848.	Site elevation: 210 FT AMSL. VFR ID: K22 Hours: SR-SS.
LASHAM GLIDER SITE, ALTON, HANTS (AD) (W AND T) 511112N 0010155W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Lasham Gliding Society 01256-381322.	Site elevation: 618 FT AMSL. Hours: HJ
LASHENDEN/HEADCORN PARACHUTE SITE, KENT A circle, 1.5 NM radius, centred at 510925N 0003902E	Upper limit: 3500 FT ALT Lower limit: SFC	Phone: 01622-890862. London Control (Swanwick): 023-8040 1110.	Activity notified on the day to Headcorn Radio on 122.210 MHz or London Control (Swanwick). Drops may be made from up to FL 150 with London Control (Swanwick) permission. Hours: Normally during daylight hours.
LEEDS GENERAL INFIRMARY HOSPITAL HELICOPTER LANDING SITE 534810N 0013309W			Site elevation: 284 FT AMSL.
LEICESTER GLENFIELD HOSPITAL HELICOPTER LANDING SITE 523914N 0011055W			Site elevation: 320 FT AMSL.
LEYSDOWN KITE FLYING SITE, KENT A circle, 1 NM radius, centred at 512310N 0005625E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 19 FT AMSL. VFR ID: K23 Hours: SR-SS. Activated by NOTAM.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
LILLESHALL KITE FLYING SITE, SHROPSHIRE A circle, 0.5 NM radius, centred at 524411N 0022535W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07966-361181.	Site elevation: 209 FT AMSL. Active only August-February. VFR ID: K25 Hours: SR-SS.
LIMERSTONE DOWN HANGGLIDER SITE, ISLE OF WIGHT A circle, 2 NM radius, centred at 503902N 0012220W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 550 FT AMSL. Hours: HJ
LINTON MICROLIGHT SITE (NR MAIDSTONE) 511217N 0003042E			Site elevation: 70 FT AMSL.
LITTLE RISSINGTON GLIDER SITE (MIL), GLOS (AD) (W AND T) 515202N 0014139W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Aerodrome Operator RAF 2 FTS 01400-264520. Ops 612 VGS 01451-810078, 07786-504892 (Mobile).	Strictly PPR. Channel: 120.780 (Rissington Radio). Site elevation: 722 FT AMSL. Hours: Sat-Sun & PHs, SR to SS+15 (all other times by NOTAM).
LLANBEDR PARACHUTE SITE, GWYNEDD (AD) A circle, 1.5 NM radius, centred at 524817N 0040738W	Upper limit: FL150 Lower limit: SFC	Phone: 07703-532064. RAF Valley 01407-762241 Ext 7404. London Control (Swanwick): 01489-612420.	Activity notified on the day to RAF Valley or London Control (Swanwick) outside hours of Llanbedr. Alternative contact: 118.930 MHz Llanbedr or 125.230 Valley Radar or 124.750 MHz London Information. Hours: Normally during daylight hours.
LLANBEDR TRAINING AERODROME 524817N 0040738W		Phone: 01341-771771.	Site elevation: 30 FT AMSL. Training Aerodrome.
LLANDDULAS KITE FLYING SITE, CONWY A circle, 1 NM radius, centred at 531738N 0033807W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 15 FT AMSL. VFR ID: K27 Hours: SR-SS. Activated by NOTAM.
LLANDUDNO KITE FLYING SITE, CONWY A circle, 1 NM radius, centred at 531835N 0035034W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 52 FT AMSL. VFR ID: K28 Hours: SR-SS. Activated by NOTAM.
LLANDUDNO KITE FLYING SITE, CONWY A circle, 1 NM radius, centred at 531902N 0034533W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 18 FT AMSL. VFR ID: K29 Hours: SR-SS. Activated by NOTAM.
LLANGOED KITE FLYING SITE, ISLE OF ANGLESEY A circle, 1 NM radius, centred at 531839N 0040231W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 35 FT AMSL. VFR ID: K30 Hours: SR-SS. Activated by NOTAM.
LLANTISILIO GLIDER SITE, LLANDEGLA NR WREXHAM (W) 530239N 0031315W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: North Wales Gliding Club.	Freq: 133.565. Site elevation: 1120 FT AMSL. Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
LLEWENI PARC GLIDER SITE, DENBIGH, CLWYD (W AND T) 531239N 0032312W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Denbigh Gliding Club 01745-812062.	Freq: 129.060. Site elevation: 200 FT AMSL. Hours: HJ
LONDON COLNEY MICROLIGHT SITE 514220N 0001629W		Phone: Hertfordshire Microlight Club.	Site elevation: 295 FT AMSL.
LONDON COLNEY MODEL AIRCRAFT FLYING, HERTFORDSHIRE 514259N 0001541W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07710-924721.	Site elevation: 270 FT AMSL. VFR ID: M5 Hours: HJ
LONDONDERRY ALTNAGALVIN HOSPITAL HELICOPTER LANDING SITE 545904N 0071718W			Site elevation: 201 FT AMSL.
LONG MYND GLIDER SITE, SALOP (W AND T) 523108N 0025233W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Midland Gliding Club 01588-650206.	Freq: 123.815. Site elevation: 1411 FT AMSL. Hours: HJ
LONG SUTTON MICROLIGHT SITE 524642N 0000536E		Phone: 01406-366678/ 07850-542907.	Site Elevation: 10 FT AMSL. PPR by telephone. Hours: SR-30 to SS+30.
LONGSIDE TRAINING AERODROME 573056N 0015230W		Phone: 07814-875556 Email: operations@buchanaeroclub.co.uk.	Site elevation: 120 FT AMSL. Training Aerodrome.
LORNE AND ISLANDS HOSPITAL HELICOPTER LANDING SITE 562358N 0052829W			Site elevation: 62 FT AMSL.
LYVEDEN GLIDER SITE, NORTHANTS (W) 522758N 0003430W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Welland Gliding Club 01832-205237.	Site elevation: 279 FT AMSL. Hours: HJ
MAIDSTONE HOSPITAL HELICOPTER LANDING SITE 511636N 0002905E			Site elevation: 272 FT AMSL.
MANCHESTER ROYAL INFIRMARY HOSPITAL HELICOPTER LANDING SITE 532748N 0021343W			Site elevation: 205 FT AMSL.
MANTON MICROLIGHT SITE 512543N 0014627W			Site elevation: 610 FT AMSL.
MARSH BENHAM BALLOON LAUNCH SITE 512310N 0013852W			Frequent launchings of manned balloons take place at or near Marsh Benham, Newbury, Berks (several sites in or around Newbury).
MAYTHORN MODEL AIRCRAFT FLYING, W YORKSHIRE 533251N 0014226W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07973-755472.	Site elevation: 1050 FT AMSL. VFR ID: M6 Hours: 1000-1800 (0900-1700)
MEMBURY TRAINING AERODROME 512830N 0013330W		Phone: 01488-71774.	Site elevation: 667 FT AMSL. Training Aerodrome.
MENDLESHAM HANGGLIDER SITE, SUFFOLK A circle, 2 NM radius, centred at 521342N 0010729E	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 221 FT AMSL. Hours: HJ
METFIELD HANGGLIDER SITE, SUFFOLK A circle, 2 NM radius, centred at 522151N 0012330E	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 182 FT AMSL. Hours: HJ Sat, Sun, PH & after 1700 (1600) Mon-Fri.
MIDDLE BRIDGE MODEL AIRCRAFT FLYING, EAST SUSSEX 505022N 0002153E	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07850-843917.	Site elevation: 10 FT AMSL. VFR ID: M19 Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
MIDDLE WALLOP GLIDER SITE, HANTS (AD) (W AND T) 510858N 0013413W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 297 FT AMSL. Hours: Weekends and Public Holidays SR-30 to SS+30.
MIDDLETON SANDS MICROLIGHT SITE 535952N 0025346W			Site elevation: 17 FT AMSL.
MILFIELD GLIDER SITE, NORTHUMBERLAND (T) 553514N 0020510W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Borders Gliding Club 01668-216284.	Freq: 124.965. Site elevation: 150 FT AMSL. Hours: HJ
MILSON MICROLIGHT SITE 522141N 0023245W			Site elevation: 500 FT AMSL.
MONTROSE MICROLIGHT SITE 564351N 0022704W			Site elevation: 25 FT AMSL.
MOVENIS MICROLIGHT SITE (MCMASTERS FARM) 545915N 0063853W			Site elevation: 180 FT AMSL.
MOVENIS PARACHUTE SITE, CO LONDONDERRY A circle, 1.5 NM radius, centred at 545915N 0063853W	Upper limit: FL150 Lower limit: SFC	Phone: 028-2955 8609. Londonderry/Eglinton ATC: 028-7181 1099. Scottish Control (Prestwick): 01294-655300.	Activity notified on the day to Londonderry/Eglinton ATC or Scottish Control (Prestwick) outside hours of Londonderry/ Eglinton. Alternative contact: 129.905 MHz. Hours: Normally during daylight hours.
NAPTON MODEL AIRCRAFT FLYING, WARWICKSHIRE 521434N 0012038W	Upper limit: 1200 FT AGL Lower limit: SFC	Phone: 07901-986949.	Site elevation: 50 FT AMSL. VFR ID: M7 Hours: HJ Fri and Sun
NETHERAVON PARACHUTE SITE, WILTS A circle, 1.5 NM radius, centred at 511423N 0014615W	Upper limit: FL150 Lower limit: SFC	Phone: 01980-628289. Salisbury Operations: 01980-674710/674730.	Activity notified on the day to Salisbury Operations. Initial Contact: 'Salisbury Information': Channel: 122.755 Parachute Site: 'Netheravon DZ' Channel: 128.305 Hours of applicability for Rule 11: Police/SAR/Air Ambulance are approved to transit the ATZ without ATS provision. They should call Netheravon Information 128.305 (When ATZ open) or Netheravon DZ 128.305 when para activity is taking place. Refer to Salisbury Plain Training Area (SPTA) Air Ops procedures for transits and entry into SPTA Danger Areas & Low Level Routing. Hours: Normally during daylight hours. Occasionally at night by NOTAM.
NEWBIGGIN KITE FLYING SITE, CUMBRIA A circle, 1 NM radius, centred at 540640N 0030717W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 16 FT AMSL. VFR ID: K31 Hours: SR-SS. Activated by NOTAM.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
NEWTON PEVERIL MICROLIGHT SITE 504738N 0020603W			Site elevation: 9 FT AMSL.
NORFOLK AND NORWICH HOSPITAL HELICOPTER LANDING SITE 523709N 0011315E			Site elevation: 68 FT AMSL.
NORMANS BAY KITE FLYING SITE, EAST SUSSEX A circle, 1 NM radius, centred at 504935N 0002350E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 19 FT AMSL. VFR ID: K32 Hours: SR-SS. Activated by NOTAM.
NORTH HILL GLIDER SITE, DEVON (W AND T) 505107N 0031639W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Devon & Somerset Gliding Club 01404-841386.	Site elevation: 921 FT AMSL. Hours: HJ
NORTH LUFFENHAM HANGGLIDER SITE, RUTLAND (AD) (W) A circle, 2 NM radius, centred at 523758N 0003629W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Rutland Airsports.	Site elevation: 350 FT AMSL. Hours: Wed, Fri 1200-SS+30 (1100-SS+30); Sun 1000-SS+30 (0900-SS+30).
NORTH WEALD (TRAINING UNUSUAL ACT AERODROME) 514318N 0000915E		Phone: 01992-564200. Tower: 01992-524740.	Freq: 123.530 MHz. Site elevation: 321 FT AMSL. Training and Unusual Activity Aerodrome. Occasional opposite direction circuits being used by warbirds aircraft including run and breaks.
NORTH WEALD AD MODEL AIRCRAFT FLYING, ESSEX 514323N 0000936E	Upper limit: 500 FT AGL Lower limit: SFC	Phone: 01992-564200.	Site elevation: 250 FT AMSL. VFR ID: M20 Hours: HJ
NORTHAMPTON (SYWELL) UNUSUAL ACT AERODROME 521822N 0004732W		Phone: 01604-801620 (Administration), 01604-801630 (A/G).	Freq: 122.705 MHz. Site elevation: 424 FT AMSL. Unusual Activity. Training and Unusual Activity Aerodrome. Intensive helicopter and fixed-wing training, aerobatics, warbird testing, and PAX flights, including run-and-break manoeuvres.
NORTHIAM MICROLIGHT SITE 510016N 0003718E		Phone: Witherenden Flying Club 01580-712773 : Website: www.witherenden.co.uk.	Site Elevation: 60 FT AMSL. PPR.
NYMPSFIELD GLIDER SITE, GLOS (W AND T) 514251N 0021701W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Bristol & Gloucester Gliding Club 01453-860342.	Freq: 129.980 MHz. Site elevation: 700 FT AMSL. Hours: HJ
OAKSEY PARK TRAINING AERODROME 513757N 0020055W		Phone: 01666-577130 Email: oakseyairfield@supanet.com.	Site elevation: 250 FT AMSL. Training Aerodrome.
ODIHAM GLIDER SITE (MIL), HANTS (AD) (W AND T) 511405N 0005657W	Upper limit: 2500 FT AGL Lower limit: SFC	Phone: Kestrel Gliding Club 07796-908168.	Strictly PPR. Channel: 119.230. Site elevation: 405 FT AMSL. Hours: SR to SS+15.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
OLD SARUM PARACHUTE SITE, WILTS A circle, 1.5 NM radius, centred at 510556N 0014703W	Upper limit: FL150 Lower limit: SFC	Phone: 01722-567863. London Control (Swanwick): 01489-612420.	Activity notified on the day to London Control (Swanwick). Alternative contact: 129.905 MHz. Hours: Normally during daylight hours.
OTHERTON MICROLIGHT SITE 524231N 0020541W			Site elevation: 340 FT AMSL.
OUSTON MODEL AIRCRAFT FLYING, NEWCASTLE-UPON-TYNE 550125N 0015227W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: S.W. Model Flyers 07742-131833.	Site elevation: 475 FT AMSL. VFR ID: M31 Hours: HJ
OVER FARM MICROLIGHT SITE, GLOUCESTER 515239N 0021657W		Phone: 07831-237353.	Strictly PPR. Site elevation: 47 FT AMSL. Hours: HJ
OXTON MICROLIGHT SITE 530241N 0010006W			Site elevation: 273 FT AMSL.
PACKINGTON MICROLIGHT SITE 524258N 0012817W			Site elevation: 320 FT AMSL.
PARHAM GLIDER SITE, W SUSSEX (W AND T) 505532N 0002828W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Southdown Gliding Club 01903-746706.	Freq: 124.965. Site elevation: 110 FT AMSL. Hours: HJ
PARK HALL MICROLIGHT SITE 525859N 0012215W		Phone: Ram Air Microlights 07974-466923.	Site elevation: 377 FT AMSL.
PENRHOS MODEL AIRCRAFT FLYING, GWYNEDD 525220N 0042836W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: 01758-701404.	Site elevation: 70 FT AMSL. VFR ID: M21 Hours: HJ
PERRANPORTH GLIDER SITE, CORNWALL (AD) (W AND T) 501947N 0051039W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Perranporth Flying Club 01872-552266.	Site elevation: 330 FT AMSL. Freq: 119.755 MHz. Hours: HJ
PERRANPORTH PARACHUTE SITE, CORNWALL A circle, 1.5 NM radius, centred at 501954N 0051039W	Upper limit: FL150 Lower limit: SFC	Phone: 07885-628772 or 01872-552266.	Activity must be notified on the day to Newquay ATC (133.405 MHz (Tel: 01637-861300)) and Culdrose ATC. Hours: Normally during daylight hours.
PETERBOROUGH/SIBSON PARACHUTE SITE, CAMBS A circle, 1.5 NM radius, centred at 523329N 0002349W	Upper limit: FL150 Lower limit: SFC	Phone: 01832-280490. Marham ATC: 01760-337261 Ext: 4949. London Control (Swanwick): 023-8040 1102.	Activity notified on the day to Marham ATC during weekdays or London Control (Swanwick) outside hours of Marham. Alternative contact: 129.905 MHz or 120.330 MHz. Hours: Normally during daylight hours.
PETERLEE PARACHUTE SITE, CO DURHAM A circle, 1.5 NM radius, centred at 544556N 0012243W	Upper limit: FL150 Lower limit: SFC	Phone: 0191-517 1234. Newcastle ATC: 0191-286 0966.	Activity notified on the day to Newcastle ATC. Alternative contact: 129.905 MHz. Hours: Normally during daylight hours.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
PILLING SANDS MICROLIGHT SITE 535631N 0025608W			Site elevation: 17 FT AMSL.
PLAISTOWS MICROLIGHT SITE (CHISWELL GREEN) 514341N 0002247W			Site elevation: 395 FT AMSL.
POCKLINGTON GLIDER SITE, EAST YORKSHIRE (AD) (W AND T) 535541N 0004751W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Wolds Gliding Club 01759-303579.	Freq: 122.915. Site elevation: 87 FT AMSL. Hours: HJ
POPHAM TRAINING AERODROME 511140N 0011410W		Phone: 01256-397733 Email: pophamairfield@btconnect.com.	Site elevation: 550 FT AMSL. Training Aerodrome.
PORTMOAK GLIDER SITE, TAYSIDE (AD) (W AND T) 561121N 0031945W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Scottish Gliding Centre 01592-840543. Email: office@scottishglidingcentre.co.uk.	Freq: 122.915. Site elevation: 360 FT AMSL. Hours: HJ
PORTSMOUTH QUEEN ALEXANDRA HOSPITAL HELICOPTER LANDING SITE 505104N 0010409W			Site elevation: 185 FT AMSL.
POUND GREEN MICROLIGHT SITE, WORCS 522414N 0022115W			Site elevation: 360 FT AMSL.
PREDANNACK GLIDER SITE (MIL), CORNWALL (AD) (W) 500007N 0051351W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: 626 VGS 01326-241197, 07776-227318 (Mobile). Mil Ops (Culdrose) 01326-552415.	Strictly PPR. Channel: 134.055 (Culdrose APP); Channel: 124.105 (VGS). Site elevation: 299 FT AMSL. Hours: SR to SS+15 Fri, Sat, Sun & PH or as notified by NOTAM.
PRESTATYN KITE FLYING SITE, DENBIGHSHIRE A circle, 1 NM radius, centred at 532021N 0032432W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 18 FT AMSL. VFR ID: K34 Hours: SR-SS. Activated by NOTAM.
PWLLHELI KITE FLYING SITE, GWYNEDD A circle, 1 NM radius, centred at 525250N 0042457W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 10 FT AMSL. VFR ID: K33 Hours: SR-SS. Activated by NOTAM.
RATTLESDEN GLIDER SITE, SUFFOLK (AD) (W AND T) 521001N 0005216E	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Rattlesden Gliding Club 01449-737789.	Freq: 130.290. Site elevation: 305 FT AMSL. Hours: HJ
RECTORY FARM MICROLIGHT SITE, NEWARK 530510N 0005055W		Phone: 07885-460270.	Site Elevation: 40 FT AMSL. Hours: 0800 (0700) to SS+30 (Summer) / SR-30 to SS+30 (Winter). Strictly PPR.
RECULVER KITE FLYING SITE, KENT A circle, 1 NM radius, centred at 512248N 0011245E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 11 FT AMSL. VFR ID: K24 Hours: SR-SS. Activated by NOTAM.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
REDWICK ROCKET SITE A circle, 1 NM radius, centred at 513322N 0025018W	Upper limit: 3500 FT AGL Lower limit: SFC	Phone: Fins Over Gwent Rocketry 07903-254338.	Site elevation: 21 FT AMSL. VFR ID: R3 Hours: HJ Activated by NOTAM.
RIDGEWELL GLIDER SITE, ESSEX (AD) (W AND T) 520253N 0003330E	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Essex Gliding Club 01440-785103.	Freq: 132.910. Site elevation: 273 FT AMSL. Hours: HJ
RINGMER GLIDER SITE, KITSONS FIELD, SUSSEX (W AND T) 505423N 0000618E	Upper limit: 2500 FT AGL Lower limit: SFC	Phone: East Sussex Gliding Club 01825-840347.	Freq: 129.965. Site elevation: 72 FT AMSL. Hours: HJ
RITTON BANK MODEL AIRCRAFT FLYING, NORTHUMBERLAND 551445N 0015246W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07986-010743/ 07719-383674.	Site elevation: 760 FT AMSL. VFR ID: M8 Hours: HJ
RIVAR HILL GLIDER SITE, WILTS (W) 512038N 0013235W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Shalbourne Soaring Society 01264-731204.	Site elevation: 730 FT AMSL. Hours: HJ
ROGART MICROLIGHT SITE (ROVIE FARM) 575926N 0041019W			Site elevation: 33 FT AMSL.
ROSSALL FIELD MICROLIGHT SITE (COCKERHAM) 535603N 0025038W		Phone: Ribble Valley Microlight Club.	Site elevation: 15 FT AMSL.
ROYAL CORNWALL HOSPITAL HELICOPTER LANDING SITE 501602N 0050540W			Site elevation: 330 FT AMSL.
ROYAL DERBY HOSPITAL HELICOPTER LANDING SITE 525437N 0013053W			Site elevation: 350 FT AMSL.
ROYAL DEVON & EXETER HOSPITAL HELICOPTER LANDING SITE 504305N 0033019W			Site elevation: 122 FT AMSL.
ROYAL LONDON HOSPITAL HELICOPTER LANDING SITE 513105N 0000330W			Site elevation: 325 FT AMSL.
ROYAL PRESTON HOSPITAL HELICOPTER LANDING SITE 534728N 0024231W			Site elevation: 162 FT AMSL.
ROYAL SUSSEX HOSPITAL HELICOPTER LANDING SITE 504911N 0000659W			Site elevation: 380 FT AMSL.
ROYAL VICTORIA INFIRMARY HOSPITAL HELICOPTER LANDING SITE 545850N 0013710W			Site elevation: 290 FT AMSL.
SACKVILLE LODGE GLIDER SITE, RISELY, BEDS (W) 521551N 0002905W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Sackville Gliding Club 01234-708877.	Site elevation: 250 FT AMSL. Hours: HJ
SALFORD ROYAL HOSPITAL HELICOPTER LANDING SITE 532919N 0021922W			Site elevation: 225 FT AMSL.
SALTBY GLIDER SITE, LINCS (AD) (W AND T) 524947N 0004245W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Buckminster Gliding Club 01476-860385.	Freq: 129.965. Site elevation: 480 FT AMSL. Hours: HJ
SANDHAYS MODEL AIRCRAFT FLYING, LINCOLNSHIRE 532533N 0002754W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07740-165167.	Site elevation: 20 FT AMSL. VFR ID: M9 Hours: HJ
SANDHILL FARM GLIDER SITE, WILTS (W AND T) 513614N 0014030W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Vale of White Horse Gliding Club 01793-783685.	Freq: 129.980 MHz. Site elevation: 350 FT AMSL. Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
SANDOWN / ISLE OF WIGHT TRAINING AERODROME 503910N 0011055W		Phone: 01983-716926 Email: tower@eghn.org.uk.	Site elevation: 55 FT AMSL. Training Aerodrome.
SANDWICH BAY KITE FLYING SITE, KENT A circle, 1 NM radius, centred at 511619N 0012308E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 19 FT AMSL. VFR ID: K26 Hours: SR-SS. Activated by NOTAM.
SANDY BAY KITE FLYING SITE, E OF EXMOUTH, DEVON A circle, 0.5 NM radius, centred at 503708N 0032151W	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: 07843-098727 or 01395-279443.	Site elevation: 233 FT AMSL. VFR ID: K35 Hours: 1200-SS (1100-SS).
SANDY MICROLIGHT SITE, BEDS 520744N 0001835W			Site elevation: 80 FT AMSL.
SEETHING TRAINING AERODROME 523040N 0012501E		Phone: 01508-550453 Email: seethingairfield@seething-airfield.com.	Site elevation: 130 FT AMSL. Training Aerodrome.
SEIGHFORD GLIDER SITE, STAFFS (AD) (W AND T) 524940N 0021212W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Staffordshire Gliding Club 01785-282575.	Freq: 132.910. Site elevation: 321 FT AMSL. Hours: HJ
SEWSTERN MODEL AIRCRAFT FLYING, LEICESTERSHIRE 524650N 0004242W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 0116-244 0028/ 07778-287350.	Site elevation: 450 FT AMSL. VFR ID: M10 Hours: HJ
SHACKLEWELL LODGE / EMPINGHAM TRAINING AERODROME 523900N 0003400W		Phone: 07801-585480.	Site elevation: 300 FT AMSL. Training Aerodrome.
SHAWBURY GLIDER SITE (MIL) SHROPSHIRE (AD) (T) 524737N 0024004W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Shawbury Gliders 07384-724985.	Strictly PPR. Channel: 133.155. Site elevation: 249 FT AMSL. Hours: SR to SS+15.
SHEFFIELD CHILDRENS HOSPITAL HELICOPTER LANDING SITE 532251N 0012930W			Site elevation: 498 FT AMSL.
SHINGLE BEACH KITE FLYING SITE, WOODBRIDGE A circle, 1 NM radius, centred at 520159N 0012730E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 0 FT AMSL. VFR ID: K36 Hours: SR-SS. Activated by NOTAM.
SHOBDON GLIDER SITE, HEREFORD (AD) (T) 521429N 0025253W		Phone: Herefordshire Gliding Club 01568-708908.	Site elevation: 328 FT AMSL. Hours: HJ
SILECROFT KITE FLYING SITE, CUMBRIA A circle, 1 NM radius, centred at 541305N 0032100W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 20 FT AMSL. VFR ID: K37 Hours: SR-SS. Activated by NOTAM.
SILECROFT KITE FLYING SITE, CUMBRIA A circle, 1 NM radius, centred at 541308N 0032104W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 17 FT AMSL. VFR ID: K38 Hours: SR-SS. Activated by NOTAM.
SKEGNESS TRAINING AERODROME 531024N 0002000E		Phone: 07714-899600.	Site elevation: 10 FT AMSL. Training Aerodrome.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
SKELLING FARM GLIDER SITE, CUMBRIA (W) 544152N 0023506W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Eden Soaring Society 07849-979575.	Site elevation: 610 FT AMSL. Hours: HJ
SLEAP GLIDER SITE, SALOP (AD) (T) 525002N 0024618W			Site elevation: 275 FT AMSL. Hours: HJ
SNITTERFIELD GLIDER SITE, WARWICKS (AD) (W) 521406N 0014310W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Stratford on Avon Gliding Club 01789-731095.	Freq: 125.185. Site elevation: 375 FT AMSL. Hours: HJ
SOUTH CERNEY HANGGLIDER SITE, GLOS (AD) A circle, 2 NM radius, centred at 514115N 0015515W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 360 FT AMSL. Hours: HJ
SOUTH CERNEY PARACHUTE SITE, GLOS A circle, 1.5 NM radius, centred at 514114N 0015519W	Upper limit: FL150 Lower limit: SFC	Phone: 01285-868259. Brize Norton ATC: 01993-897878.	Activity notified on the day to Brize Norton ATC. (All drops subject to permission from Brize Norton NATC prior to take-off). Alternative contact: 129.905 MHz. Hours: Normally during daylight hours.
SOUTHAMPTON GENERAL HOSPITAL HELICOPTER LANDING SITE 505601N 0012556W			Site elevation: 148 FT AMSL.
SOUTHPORT KITE FLYING SITE, MERSEYSIDE A circle, 1 NM radius, centred at 533843N 0030131W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 28 FT AMSL. VFR ID: K39 Hours: SR-SS. Activated by NOTAM.
SPANHOE TRAINING AERODROME 523357N 0003620W		Phone: 01780-450205.	Site elevation: 335 FT AMSL. Training Aerodrome.
ST BEES KITE FLYING SITE, CUMBRIA A circle, 1 NM radius, centred at 542919N 0033610W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 19 FT AMSL. VFR ID: K40 Hours: SR-SS. Activated by NOTAM.
ST GEORGES HOSPITAL HELICOPTER LANDING SITE 512535N 0001029W			Site elevation: 160 FT AMSL.
ST MARYS HOSPITAL HELICOPTER LANDING SITE 504240N 0011754W			Site elevation: 170 FT AMSL.
ST MICHAELS MICROLIGHT SITE 535106N 0024735W			Site elevation: 30 FT AMSL.
STOKE MICROLIGHT SITE (ISLE OF GRAIN), KENT 512702N 0003814E			Site elevation: 10 FT AMSL.
STRATHALLAN PARACHUTE SITE, TAYSIDE A circle, 1.5 NM radius, centred at 561930N 0034455W	Upper limit: 5000 FT ALT Lower limit: SFC	Phone: 01764-662572. Scottish Control (Prestwick): 01294-655300.	Activity notified on the day to Scottish Control (Prestwick). Drops may be made from above ALT 5000 FT with Scottish Control (Prestwick) permission. Alternative contact: 129.905 MHz. Hours: Normally during daylight hours Sat, Sun & PH. Also open Fri during Summer months.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
STRATHAVEN MICROLIGHT SITE 554049N 0040654W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: The Scottish Flying Club 0797-9971301.	PPR for 1st visit. Microlight training 7 days a week. Freq: 135.475 MHz. Site elevation: 847 FT AMSL. Hours: HJ
STRUBBY GLIDER SITE, LINCS (AD) (W AND T) 531836N 0001034E	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Lincolnshire Gliding Club 01507-450698.	Site elevation: 47 FT AMSL. Hours: HJ
STURGATE TRAINING AERODROME 532252N 0004107W		Phone: 01427-838280 Mon-Fri; 01427-838305 Sat-Sun.	Site elevation: 58 FT AMSL. Training Aerodrome.
SUTTON BANK GLIDER SITE, N YORKS (W AND T) 541338N 0011249W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Yorkshire Gliding Club 01845-597237.	Freq: 118.665. Site elevation: 920 FT AMSL. Hours: HJ
SUTTON MEADOWS MICROLIGHT SITE 522306N 0000336E			Site elevation: 3 FT AMSL.
SWANSEA MORRISTON HOSPITAL HELICOPTER LANDING SITE 514101N 0035618W			Site elevation: 352 FT AMSL.
SWANSEA PARACHUTE SITE, SOUTH WALES A circle, 1.5 NM radius, centred at 513618N 0040405W	Upper limit: FL150 Lower limit: SFC	Phone: 01792-204063. Swansea Radio: 01792-208182/712564. London Control (Swanwick): 01489-612420.	Activity notified on the day to Cardiff ATC or London Control (Swanwick) outside hours of Cardiff. Alternative contact: 129.905 MHz (Swansea Drop Zone). Hours: Normally during daylight hours.
SWANTON MORLEY MICROLIGHT SITE 524405N 0005743E			Site elevation: 118 FT AMSL.
SYERSTON GLIDER SITE (MIL), NOTTS (AD) (W AND T) 530124N 0005442W	Upper limit: 3000 FT AGL Lower limit: SFC	Mon-Fri: RAF CGS Phone: 01400-264526, 07802-331879 (Mobile). Sat, Sun & PH: 644 VGS Phone: 01400-264533, 07976-683218 (Mobile).	Strictly PPR. Channel: 128.530. Site elevation: 231 FT AMSL. Hours: SR to SS+15.
TALACRE KITE FLYING SITE, FLINTSHIRE A circle, 1 NM radius, centred at 532120N 0031855W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 13 FT AMSL. VFR ID: K41 Hours: SR-SS. Activated by NOTAM.
TALGARTH GLIDER SITE, POWYS (T) 515848N 0031215W		Phone: Black Mountain Gliding Club 01874-711463.	Freq: 122.915. Site elevation: 970 FT AMSL. Hours: HJ
TARSAN LANE MICROLIGHT SITE 542729N 0062616W		Phone: Victor Carmichael 07747-806029.	Site elevation: 40 FT AMSL.
TERNHILL GLIDER SITE (MIL), SHROPSHIRE (AD) (W AND T) 525227N 0023201W	Upper limit: 2000 FT AGL	Phone: 632 VGS 01630-698329, 07776-227346 (Mobile). Mil Ops (Shawbury) 01939-250351 Ext 7227.	Strictly PPR. Freq: 120.775 MHz (Shawbury); 122.100 MHz (VGS). Site elevation: 272 FT AMSL. Hours: SR to SS+15.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
THE PARK GLIDER SITE, KINGSTON DEVERILL, WILTS (W) 510742N 0021445W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Bath, Wilts & North Dorset Gliding Club 01985-844095.	Freq: 133.565. Site elevation: 697 FT AMSL. Hours: HJ
THORNEY ISLAND MICROLIGHT SITE 504848N 0005538W			Site elevation: 3 FT AMSL.
THORNHILL MICROLIGHT SITE 560856N 0041109W			Site elevation: 45 FT AMSL.
TIBENHAM GLIDER SITE, NORFOLK (AD) (W AND T) 522724N 0010915E	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Norfolk Gliding Club 01379-677207.	Freq: 133.565. Site elevation: 186 FT AMSL. Hours: HJ
TILSTOCK PARACHUTE SITE, SHROPSHIRE A circle, 1.5 NM radius, centred at 525551N 0023905W	Upper limit: FL85 Lower limit: SFC	Phone: Prestwick Centre, Ops Supervisor: 01294-655300 and Shawbury ATC Watch Supervisor: 01939-250351 (ext 7232).	Activity notified on the day to Prestwick Centre, Ops Supervisor and Shawbury ATC (weekdays). Tilstock DZ contact: 118.100 MHz. Alternative contact: Shawbury Zone: 133.155 (weekdays). Drops may be made up to FL150 with Scottish Control (Prestwick) permission. Hours: Normally during daylight hours daily 0800-2000 (0700-1900); and other times as notified.
TOPCLIFFE GLIDER SITE (MIL), N YORKS (AD) (W AND T) 541220N 0012254W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: 645 VGS 01845-595345, 07776-227349 (Mobile). Mil Ops (Syerston) 01400-264520.	Strictly PPR. Channel: 121.455 (Topcliffe Radio). Site elevation: 91 FT AMSL. Hours: Sat-Sun & PHs, SR to SS+15 (all other times by NOTAM).
TREFADOG KITE FLYING SITE, HOLYHEAD A circle, 1 NM radius, centred at 532041N 0043402W	Upper limit: 2000 FT AGL Lower limit: SFC		Site elevation: 6 FT AMSL. VFR ID: K42 Hours: SR-SS. Activated by NOTAM.
TRWYN DINMOR KITE FLYING SITE, BEAUMARIS A circle, 1 NM radius, centred at 531849N 0040328W	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 55 FT AMSL. VFR ID: K43 Hours: SR-SS. Activated by NOTAM.
TURWESTON TRAINING AERODROME 520227N 0010551W		Phone: 01280-705400.	Site elevation: 438 FT AMSL. Training Aerodrome. Hours: Mon-Fri 0800-2000 (0700-1900), Sat 0900-1800 (0800-1700), Sun 1000-1800 (0900-1700).
UNIVERSITY HOSPITAL N. MIDS HOSPITAL HELICOPTER LANDING SITE 530010N 0021238W			Site elevation: 405 FT AMSL.
UNIVERSITY HOSPITAL WALES HOSPITAL HELICOPTER LANDING SITE 513022N 0031127W			Site elevation: 92 FT AMSL.

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
UPAVON GLIDER SITE (MIL), WILTS (AD) (W AND T) 511710N 0014652W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Airfield Manager 01980-615381. Salisbury Plain Ops 01980-674710. 622 VGS 07974-369674 (Mobile).	Strictly PPR. Channel: 122.755 (Initial Contact 'Salisbury Information'); Channel: 124.105 ('Upavon Radio'). Site elevation: 575 FT AMSL. Remarks: Maximum Winch Altitude 3000 FT AGL. Fixed wing aircraft and rotary movements can take place H24. Aerodrome located within EGD128. Hours: Gliding SR-SS+30; Winter: Weekends and PH only.
UPWOOD GLIDER SITE, CAMBS (AD) (W) 522612N 0000836W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Nene Valley Gliding Club 0860-693479.	Site elevation: 75 FT AMSL. Hours: HJ
USK GLIDER SITE, GWENT (W AND T) 514306N 0025101W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: S.Wales Gliding Club 01291-690536.	Freq: 129.980 MHz. Site elevation: 80 FT AMSL. Hours: HJ
WALTON-ON-THE-NAZE KITE FLYING SITE, ESSEX A circle, 1 NM radius, centred at 515147N 0011723E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 5 FT AMSL. VFR ID: K44 Hours: SR-SS. Activated by NOTAM.
WARBOYS MODEL AIRCRAFT FLYING, CAMBRIDGESHIRE 522407N 0000619W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07586-292737/ 07941-149109.	Site elevation: 80 FT AMSL. VFR ID: M11 Hours: HJ
WATER EATON MICROLIGHT SITE 513826N 0014705W			Site elevation: 270 FT AMSL.
WATTISHAM GLIDER SITE, SUFFOLK (AD) (W AND T) 520739N 0005722E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 284 FT AMSL. Hours: HJ
WAVERTON MICROLIGHT SITE 531004N 0024718W			Site elevation: 115 FT AMSL.
WEST BEACH KITE FLYING SITE, WHITSTABLE A circle, 1 NM radius, centred at 512044N 0005833E	Upper limit: 3000 FT AGL Lower limit: SFC		Site elevation: 8 FT AMSL. VFR ID: K45 Hours: SR-SS. Activated by NOTAM.
WEST CALDER MODEL AIRCRAFT FLYING, SOUTH LANARKSHIRE 554821N 0033530W	Upper limit: 1200 FT AGL Lower limit: SFC	Phone: West Calder Aircraft Model Club 07761-645644.	Site elevation: 960 FT AMSL. VFR ID: M28 Hours: HJ
WESTEND FARM MICROLIGHT SITE 513540N 0022503W		Phone: 07956-064035.	Strictly PPR. Freq: 129.830 MHz. Site elevation: 240 FT AMSL. Hours: 0900-SS+30 (0800-SS+30).
WESTON-ON-THE-GREEN GLIDER SITE, OXON (AD) (W) 515249N 0011311W	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Oxford Gliding Club 01865-521042.	Freq: 129.980 MHz. Site elevation: 282 FT AMSL. Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
WESTON-ON-THE-GREEN PARACHUTE SITE, OXFORD A circle, 2 NM radius, centred at 515246N 0011320W	Upper limit: FL85 Lower limit: SFC	Phone: 01869-343343. Brize Norton ATC: 01993-897878.	Activity notified on the day to Brize Norton ATC. Drops may be made from up to FL 135 with London Control (Swanwick) permission. Alternative contact: 133.650 MHz. Hours: Normally during daylight hours. Night parachuting frequent.
WESTONZOYLAND MICROLIGHT SITE 510628N 0025453W			Site elevation: 30 FT AMSL.
WEYBOURNE AIRFIELD MODEL AIRCRAFT FLYING, NORFOLK 525652N 0010724E	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: Kelling Model Flying Club 01263-588210.	Site elevation: 79 FT AMSL. VFR ID: M33 Hours: HJ
WILDEN MODEL AIRCRAFT FLYING, BEDFORDSHIRE 521126N 0002447W	Upper limit: 1200 FT AGL Lower limit: SFC	Phone: 01462-851515 Ext 4717.	Site elevation: 210 FT AMSL. VFR ID: M22 Hours: HJ
WILLIAM HARVEY ASHFORD HOSPITAL HELICOPTER LANDING SITE 510833N 0005451E			Site elevation: 205 FT AMSL.
WINGLAND MICROLIGHT SITE 524851N 0000647E			Site elevation: 10 FT AMSL.
WINTERTON MODEL AIRCRAFT FLYING, LINCOLNSHIRE 533941N 0003337W	Upper limit: 1500 FT AGL Lower limit: SFC	Phone: 07939-226911.	Site elevation: 10 FT AMSL. VFR ID: M12 Hours: HJ
WOMBLETON MICROLIGHT SITE (PICKERING) 541401N 0005808W		Phone: Swift Technology Group 01751-432356/ 07770-482902.	Strictly PPR. Site elevation: 120 FT AMSL.
WOODBRIDGE MODEL AIRCRAFT FLYING, SUFFOLK 520500N 0012300E	Upper limit: 1000 FT AGL Lower limit: SFC	Phone: 07909-974117.	Site elevation: 100 FT AMSL. VFR ID: M13 Hours: HJ Sat, Sun and PH
WOODVALE GLIDER SITE (MIL), MERSEY (AD) (W AND T) 533454N 0030327W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Airfield Duty Supervisor 07866-995297 (during notified hours).	Freqs: 121.000 MHz (Woodvale Radio); 119.750 MHz (Woodvale Tower). Site elevation: 37 FT AMSL. Note 1: Gliding may take place when ATZ is inactive. Hours: Sat-Sun & PH, SR-SS+15.
WORMINGFORD GLIDER SITE, ESSEX (AD) (W AND T) 515630N 0004723E	Upper limit: 3000 FT AGL Lower limit: SFC	Phone: Essex & Suffolk Gliding Club 01206-242596.	Freq: 123.815. Site elevation: 236 FT AMSL. Hours: HJ
WYCOMBE AIR PARK GLIDER SITE, BUCKS (AD) (T) 513642N 0004830W		Phone: Booker Gliding Club 01494-442501.	Site elevation: 520 FT AMSL. Hours: HJ

ENR 5.5 AERIAL SPORTING AND RECREATIONAL ACTIVITIES (continued)

Designation Lateral limits	Vertical Limits	Operator/User Tel No	Remarks Activity times
1	2	3	4
WYTON (MIL) TRAINING AERODROME 522120N 0000706W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Airfield Manager (Mil) 95371 7554 / 7608, (Civ) 01480-452451 Ext 7554 / 7608. Sat - Sun: Flying Club 01480-452451 Ext 8733. Email: WYT-AirfieldOps@mod.uk.	Site elevation: 128 FT AMSL. Training Aerodrome Strictly PPR. Freq: 134.050 MHz (Wyton Ops). Hours: SR+30 to SS-30 or as notified by NOTAM.
YATESBURY MICROLIGHT SITE 512602N 0015405W			Site elevation: 525 FT AMSL.
YEOVILTON GLIDER SITE, SOMERSET (AD) (W AND T) 510034N 0023820W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: Heron Gliding Club.	Site elevation: 75 FT AMSL. Hours: HJ
YORK/RUFFORTH GLIDER SITE, N YORKS (AD) (W AND T) 535651N 0011116W	Upper limit: 2000 FT AGL Lower limit: SFC	Phone: York Gliding Centre 01904-738694.	Freq: 123.815. Site elevation: 65 FT AMSL. Hours: HJ
YSBYTY GWYNEDD HOSPITAL HELICOPTER LANDING SITE 531231N 0040926W			Site elevation: 294 FT AMSL.

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ENR 5.6 BIRD MIGRATION AND AREAS WITH SENSITIVE FAUNA

1 Bird Migration

1.1 There are no well defined heavily used bird migratory routes within United Kingdom airspace at any time of the year. Bird migration to and from the United Kingdom occurs largely in the autumn and winter on broad fronts in streams running E–W and N–S. The density of bird movements is greatest in SE England where these two fronts cross. Most migrating birds fly below 5000 FT.

2 Areas with Sensitive Fauna

2.1 As elsewhere in the world, offshore islands, headlands, cliffs, inland waters and shallow estuaries attract flocks of birds for breeding, roosting and feeding at various times of the year. Within 20 NM or so of such locations concentrations of birds flying mostly below 1500 FT may be encountered (see ENR 6.78 and ENR 6.79).

2.2 In order to lessen the risk of bird strikes, pilots of low flying aircraft should, whenever possible, avoid flying at less than 1500 FT above surface level over areas where birds are likely to concentrate. Where it is necessary to fly lower than this, pilots should bear in mind that the risk of a bird strike increases with speed (it is a fact that birds rarely hit an object moving slower than 80 knots). Apart from endangering aircraft by flying close to bird colonies, the breeding of the birds may be upset and the practice should be avoided on conservation grounds. It should also be appreciated that, especially in the case of sea bird colonies, concentrations of birds may be soaring on lee waves downwind of the areas where they breed.

3 Bird Sanctuaries

3.1 A Bird Sanctuary is airspace of defined dimensions within which large colonies of birds are known to breed.

3.2 Pilots are specifically requested to avoid the Bird Sanctuaries listed below, especially during any stated breeding season.

Identification and Name Lateral Limits	Upper Limit (FT) Lower Limit (FT)	Remarks
1	2	3
Isle of May A circle 1 NM radius centred on 561109N 0023327W.	2000 FT ALT SFC	Pilots are requested to avoid the area throughout the year. Peak activity April to September.
Martin Mere A circle 1 NM radius centred on 533726N 0025242W.	2000 FT ALT SFC	Pilots are requested to avoid the area throughout the year. Peak activity September to March.
Hilbre Islands A circle 1 NM radius centred on 532239N 0031255W.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Gibraltar Point A circle 1.5 NM radius centred on 530616N 0001949E.	2000 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Estuary area north-east of Brancaster A circle 1 NM radius centred on 525910N 0004041E.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Coast north of Holkham A circle 1 NM radius centred on 525832N 0004950E.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Coast north of Holme-next-the-Sea A circle 1 NM radius centred on 525832N 0003207E.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Blakeney Point A circle 1 NM radius centred on 525813N 0005851E.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Lakenheath Fen A circle 1.5 NM radius centred on 522657N 0003100E.	3000 FT ALT SFC	Pilots are requested to avoid the area from May to July and October to February.
Minsmere A circle 1 NM radius centred on 521445N 0013701E.	2000 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Havergate A circle 1 NM radius centred on 520423N 0013113E.	2000 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Otmoor A circle 1 NM radius centred on 514918N 0011038W.	2000 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Severn A circle 3 NM radius centred on 514429N 0022405W.	4000 FT ALT SFC	Pilots are requested to avoid the area throughout the year.

ENR 5.6 BIRD MIGRATION AND AREAS WITH SENSITIVE FAUNA (continued)

Identification and Name Lateral Limits	Upper Limit (FT) Lower Limit (FT)	Remarks
1	2	3
Langstone Harbour A circle 1.75 NM radius centred on 504857N 0010053W.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Pagham Harbour A circle 1 NM radius centred on 504548N 0004538W.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Chesil North Area bounded by straight lines joining successively the following points: 503956N 0023635W - 503743N 0023212W - 503658N 0023313W - 503911N 0023737W - 503956N 0023635W.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Spurn Peninsula, Humber Estuary Area bounded by straight lines joining successively the following points: 533634N 0000410E - 533840N 0000759E - 533559N 0000921E - 533356N 0000621E - 533634N 0000410E.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Cleethorpes, Humber Estuary Area bounded by straight lines joining successively the following points: 533346N 0000146W - 533432N 0000010W - 533106N 0000415E - 533015N 0000231E - 533346N 0000146W.	500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.
Bridgwater Bay, Stert Flats Area bounded by straight lines joining successively the following points: 511320N 0030608W - 511434N 0030205W - 511411N 0025953W - 511112N 0030108W - 511112N 0030523W - 511320N 0030608W.	1500 FT ALT SFC	Pilots are requested to avoid the area throughout the year.

4 Release of Racing Pigeons

4.1 In agreement with the Royal Pigeon Racing Association concerning the release of large numbers of racing pigeons:

a) There will be no release of racing pigeons within a radius of 7 NM from the following airports:

Aberdeen Dyce	Humberside	Manchester †
Belfast Aldergrove	Inverness	Newcastle
Birmingham	Kirkwall	Norwich
Bournemouth	Leeds Bradford	Prestwick
Bristol	Liverpool	Southampton
Cardiff	London Gatwick	Southend
East Midlands	London Heathrow	Sumburgh
Edinburgh	London Luton	Teesside International
Glasgow	London Stansted	

† See AD Section for further information

b) For other aerodromes in the United Kingdom all liberations shall be notified to the SATCO in writing fourteen days prior to the date of release and additionally by telephone 30 minutes before release time. On receipt of the 30 minute warning the SATCO or senior controller on duty may delay the liberation by up to 30 minutes for air traffic control purposes. Exceptionally, the liberation time may be delayed for a longer period.

ENR 6. EN-ROUTE CHARTS

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CHART OF LONDON FIR AND SCOTTISH FIR AIRSPACE CLASSIFICATIONS - SFC-FL195
ENR 6-7
CHART OF LONDON FIR AND SCOTTISH FIR AIRSPACE CLASSIFICATIONS - FL195-FL245
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RTF FREQUENCY ALLOCATIONS for MOBILE INSTALLATIONS in the UK AREAS UNDER CONCESSION
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DELEGATION of ATS RESPONSIBILITIES - SOUTH EASTERN SECTION of THE ENGLISH CHANNEL
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TEMPORARY RESERVED AREAS (GLIDING) in CLASS C AIRSPACE BETWEEN FL195 and FL240 in THE SCOTTISH ACC AREA
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TEMPORARY RESERVED AREAS (GLIDING) in CLASS C AIRSPACE ABOVE FL240 in THE LONDON ACC AREA
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TEMPORARY RESERVED AREAS (GLIDING) in CLASS C AIRSPACE ABOVE FL240 in THE SCOTTISH ACC AREA
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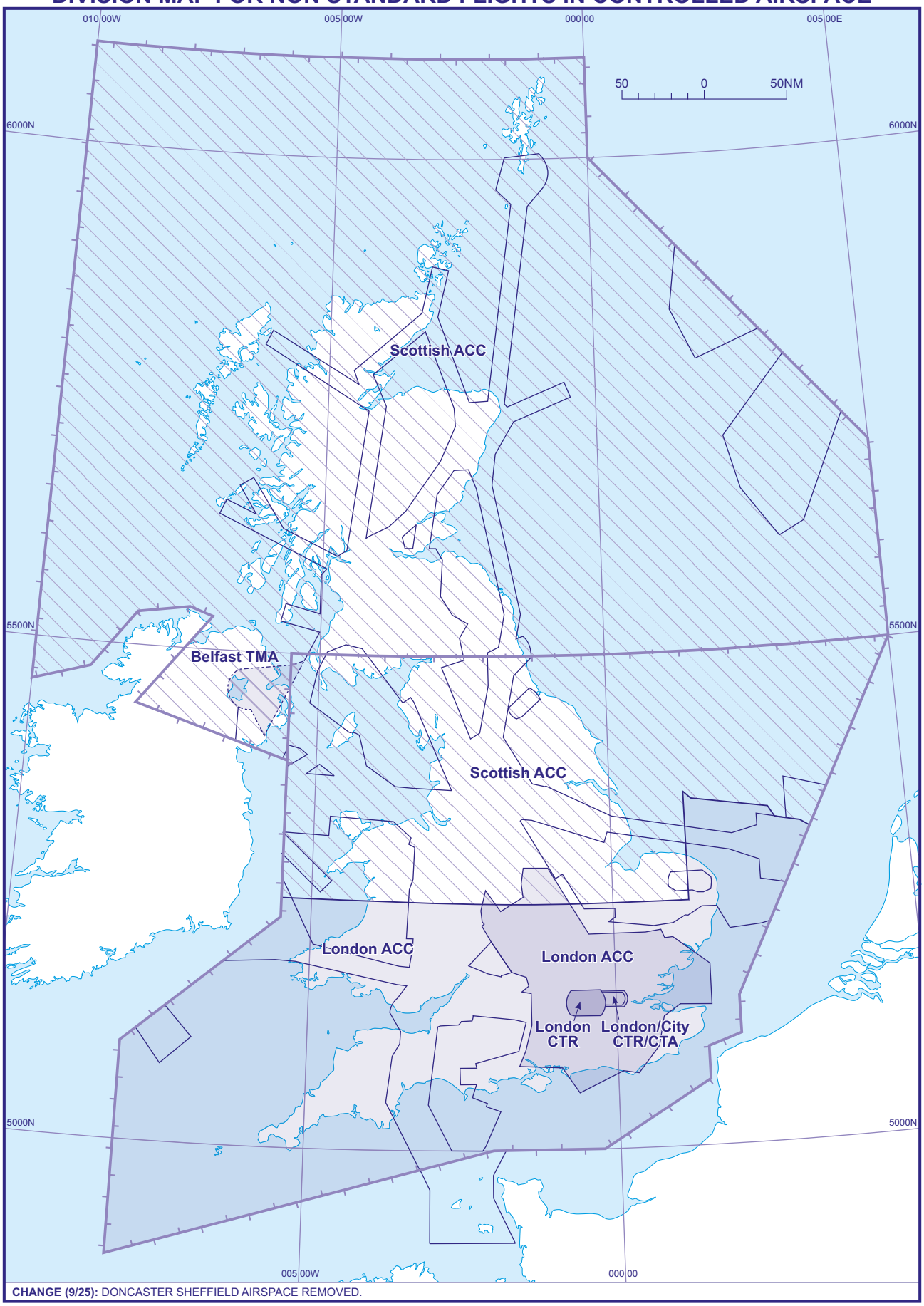
DIVISION MAP FOR NON STANDARD FLIGHTS IN CONTROLLED AIRSPACE



CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

AERO INFO DATE 06 JUN 25

ENR 6-5

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CHART OF LONDON FIR AND SCOTTISH FIR AIRSPACE CLASSIFICATIONS - SFC-FL195

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AERO INFO DATE 06 JUN 25

UK ATS AIRSPACE CLASSIFICATIONS

CAA Aviation Authority

	A	C	D	E	G
IFR ATC SEPARATION PROVIDED	IFR ⟷ IFR	IFR ⟷ IFR, VFR ⟷ IFR‡	IFR ⟷ IFR, IFR ⟷ VFR‡	IFR ⟷ IFR, IFR ⟷ VFR (when practicable)	UK FLIGHT INFORMATION SERVICES
IFR TRAFFIC INFORMATION PROVIDED		IFR ⟷ ATC ⟷ VFR Air traffic avoidance advice O/R.	IFR ⟷ ATC ⟷ VFR Air traffic avoidance advice O/R.	IFR ⟷ ATC ⟷ VFR (when practicable)	Procedural, Deconfliction Traffic, Basic
IFR SPEED LIMITATION	Not applicable (unless notified for ATC purposes)	Not applicable (unless notified for ATC purposes)	below FL100 250 KIAS	below FL100 250 KIAS	below FL100 250 KIAS
IFR RADIO					Not required
IFR ATC CLEARANCE REQUIRED?	YES	YES	YES	YES	NO
VFR ATC SEPARATION PROVIDED	VFR FLIGHT NOT PERMITTED	VFR, VFR (SVFR)‡ ⟷ IFR, IFR (SVFR)‡	VFR, VFR (SVFR)‡ ⟷ IFR, IFR (SVFR)‡	UK FLIGHT INFORMATION SERVICES	UK FLIGHT INFORMATION SERVICES
VFR TRAFFIC INFORMATION PROVIDED		VFR ⟷ ATC ⟷ VFR	VFR ⟷ ATC ⟷ VFR	Traffic, Basic	Traffic, Basic
VFR VMC MINIMA	The VMC minima in Class A airspace are detailed for information only and do not imply acceptance of VFR flights in Class A airspace.		OR†		
VFR SPEED LIMITATION	VFR FLIGHT NOT PERMITTED	below FL100 250 KIAS	below FL100 250 KIAS	below FL100 250 KIAS	below FL100 250 KIAS
VFR RADIO				Not required	Not required
VFR ATC CLEARANCE REQUIRED?		YES	YES	NO	NO

250 KIAS Not applicable to military aircraft

* Aircraft (including helicopters) may fly at or below 3000FT AMSL, or 1000FT above terrain, whichever is the higher, during day only, at 140KIAS or less, clear of cloud with the surface in sight and a flight visibility of at least 1500metres.
† Aircraft may fly at or below 3000FT AMSL, or 1000ft above terrain, whichever is the higher, during day only, at 140KIAS or less, clear of cloud with the surface in sight and: for aircraft other than helicopters, with a flight visibility of at least 5KM; for helicopters, with a flight visibility of at least 1500metres.
‡ SVFR in CTR only.

Note 1 PORTSMOUTH CTA-6:
During the notified hours of operation of SOLENT CTA the base changes to 5500ft ALT.

Note 2 PORTSMOUTH CTA-11, CTA-15, CTA-16:
Open daily 0830-0930 (0845-0830) and 1730-2130 (1630-2030).

Note 3 PORTSMOUTH CTA-17, CTA-18:
Open daily 0830-0930 (0845-0830) and 1730-2130 (1630-2030).
During the notified hours of operation of SOLENT CTA the base changes to 5500ft ALT.

Note 4 SOLENT CTA:
Mon-Sat 0930-2200 (0530-2100); Sun 0730-2230 (0630-2130).

Note 5 BERRY HEAD CTA-2, CTA-6:
Fri 1600 (1530) - Mon 0745 (0645).

Note 6 PEPZE CTA-2:
Daily between 2000-0700 (1900-0800).
Usage only as directed by ATC.

Note 7 HOLYHEAD CTA-7, HOLYHEAD CTA-16, STRANGFORD CTA-1, 5, 6, 8:
During the notified hours of operation of the Scottish TMA the base of this lower limit of the portions of these CTAs coincident with the ISLE OF MANN CTR/CTA will be FL105.

Note 8 BORDERS CTA 8, YORKSHIRE CTA 15, CTA 16:
Daily from 2000-0700 (1900-0800).

Note 9 BORDERS CTA 4:
Part or all of this airspace may not be available when activity associated with D510, Spadeadam requires access to the area. Non-availability of airspace will be notified to GAT by Scottish ACC.

Note 10 BORDERS CTA 5:
Part or all of this CTA may not be available when the Ministry of Defence (MoD) requires access to the area. Non availability of airspace will be notified to GAT by Scottish ACC.

Note 11 TAY CTA 3, CTA 4, CTA 5:
Sat 0901 - Sun 2359.
Subject to the purchase of SERA.6001(a) Classification of Airspace in accordance with the conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and Scottish Control (Prestwick).

Note 12 TAY CTA 19, CTA 11, CTA 12, CTA 13, BORDERS, CTA 12, CTA 13, CTA 14:
Lyneholmhead - 13 nm visibility as specified by NOTAM when required for MOD access or by activation of EGDD142.

Note 13 CHANNEL ISLANDS CTR, CTA-1 & TMA Outside hours of Jersey ATC:
Within London FIR - Reverts to Class G.
Within Brest FIR - Airspace adopts the classification appropriate to Airway or uncontrolled airspace designation, as appropriate, as detailed in the France AIP.

Note 14 COTSWOLD CTA 15, CTA 16, CTA 17, CTA 18:
Flexible use of airspace.
Class G between hours 1700-0900 (1600-0800) Monday-Thursday
and 1700-0900 Friday (or the day preceding a PH) to 0900 (0800) Monday (or the day following a PH).
Outside the published hours of service the airspace reverts to Class G

COTSWOLD CTA 15, CTA 16, CTA 18:
Access restrictions may apply during NOTAM activation of EGD218.

Note 15 BIRMINGHAM CTA 10:
Flexible use of airspace.
Class G between hours 1700-0900 (1600-0800) Monday-Thursday
and 1700-0900 Friday (or the day preceding a PH) to 0900 (0800) Monday (or the day following a PH).
Outside the published hours of service the airspace reverts to Class G.

Note 16 EAST MIDLANDS CTA 14:
Only available between 0001-0600 (2301-0600).
Outside the published hours of service the airspace reverts to Class G.

Note 17 MORAY CTA 12, CTA 13:
Activation of the airspace will be during notified activation of EGD715/EGD713Z for Exercise Joint Warrior and other large military exercises as notified to facilitate access to the ATS Route N560

Note 18 MORAY CTA 16:
During notified hours of operation of the Sumburgh CTA/CTR the lower limit of MORAY CTA 16 changes to FL100.

Note 19 PEPZE CTA 13, CTA 14, COTSWOLD CTA 15, CTA 17
Part of the airspace of PEPZE CTA 13, CTA 14, COTSWOLD CTA 15, CTA 17 and FL 195, and referred to as the OSSEP Gliding Areas, are notified for the purposes of SERA.6001(a) Classification of Airspace in accordance with conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and London ACC, Swanwick Mil and Scottish ACC.
MADLEY Box bounded by great circle lines joining: 520734N 00257449W ;
5207126N 0024624W ; 5156N 00246W ; 5157127N 00256359W ; 5207349N 00257449W.
OSSEP Gliding Area bounded by great circle lines joining: 5158N 00247W ;
5158402N 00247W ; 5158402N 00243W ; 5159N 00243W ; 5159N 00250E ; 5157201N 00253E ;
5157201N 00253E ; 5158N 00247W.
During periods of activation of these areas ATC will direct aircraft to remain clear of the active area.

CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

CHART OF LONDON FIR AND SCOTTISH FIR AIRSPACE CLASSIFICATIONS - FL195-FL245

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Chart compiled and drawn by NATS
AERO INFO DATE 20 MAR 25

UK ATS AIRSPACE CLASSIFICATIONS

CAA Aviation Authority

		A	C	D	E	G
IFR	ATC SEPARATION PROVIDED	IFR ↔ IFR	IFR ↔ IFR; VFR ↔ SVFR‡	IFR ↔ IFR; IFR ↔ SVFR‡	IFR ↔ IFR	UK FLIGHT INFORMATION SERVICES
	TRAFFIC INFORMATION PROVIDED		IFR: ATC Air traffic avoidance advice O/R. VFR: ATC	IFR: ATC Air traffic avoidance advice O/R. VFR: ATC	IFR: ATC VFR (when practicable)	Procedural, Deconfliction Traffic, Basic
	SPEED LIMITATION	Not applicable (unless notified for ATC purposes)	Not applicable (unless notified for ATC purposes)	below FL100 250 KIAS	below FL100 250 KIAS	below FL100 250 KIAS
	RADIO					Not required
	ATC CLEARANCE REQUIRED?	YES	YES	YES	YES	NO
VFR	ATC SEPARATION PROVIDED	VFR FLIGHT NOT PERMITTED	VFR ↔ SVFR‡; IFR ↔ SVFR‡	SVFR‡ ↔ SVFR‡; IFR ↔ SVFR‡	UK FLIGHT INFORMATION SERVICES	UK FLIGHT INFORMATION SERVICES
	TRAFFIC INFORMATION PROVIDED		VFR: ATC	VFR: ATC; IFR/VFR	Traffic, Basic	Traffic, Basic
	VMC MINIMA	8KM FL100 1500M 1000FT 5KM 1500M 1000FT. The VMC minima in Class A airspace are included for guidance to pilots and do not imply acceptance of VFR flights in Class A airspace.	8KM FL100 1500M 1000FT 5KM 1500M 1000FT	8KM FL100 1500M 1000FT 5KM 1500M 1000FT OR‡ 3000FT AMSL 140KT or less 5KM clear of cloud in sight	8KM FL100 1500M 1000FT 5KM 1500M 1000FT	8KM FL100 1500M 1000FT 5KM 1500M 1000FT 3000FT AMSL 5KM* clear of cloud in sight
	SPEED LIMITATION	VFR FLIGHT NOT PERMITTED	below FL100 250 KIAS	below FL100 250 KIAS	below FL100 250 KIAS	below FL100 250 KIAS
	RADIO				Not required	Not required
	ATC CLEARANCE REQUIRED?		YES	YES	NO	NO

250 KIAS Not applicable to military aircraft

* Aircraft (including helicopters) may fly at or below 3000FT AMSL, or 1000FT above terrain, whichever is the higher, during day only, at 140KIAS or less, clear of cloud with the surface in sight and a flight visibility of at least 1500metres.
† Aircraft may fly at or below 3000FT AMSL, or 1000ft above terrain, whichever is the higher, during day only, at 140KIAS or less, clear of cloud with the surface in sight and: for aircraft other than helicopters, with a flight visibility of at least 5KM; for helicopters, with a flight visibility of at least 1500metres.
‡ SVFR in CTR only.

Note 1 TEMPORARY RESERVED AREAS (TRA):
Hours (except TR002* and TR005**):
Monday – Friday 0830-1700 (0730-1700).
Excluding English Public Holidays.

*TRA 003
Monday-Friday 0830-1800 (0730-1700).
Excluding English Public Holidays.

**TRA 005
Monday – Friday 0900-1700 (0800-1600).
Excluding English Public Holidays.

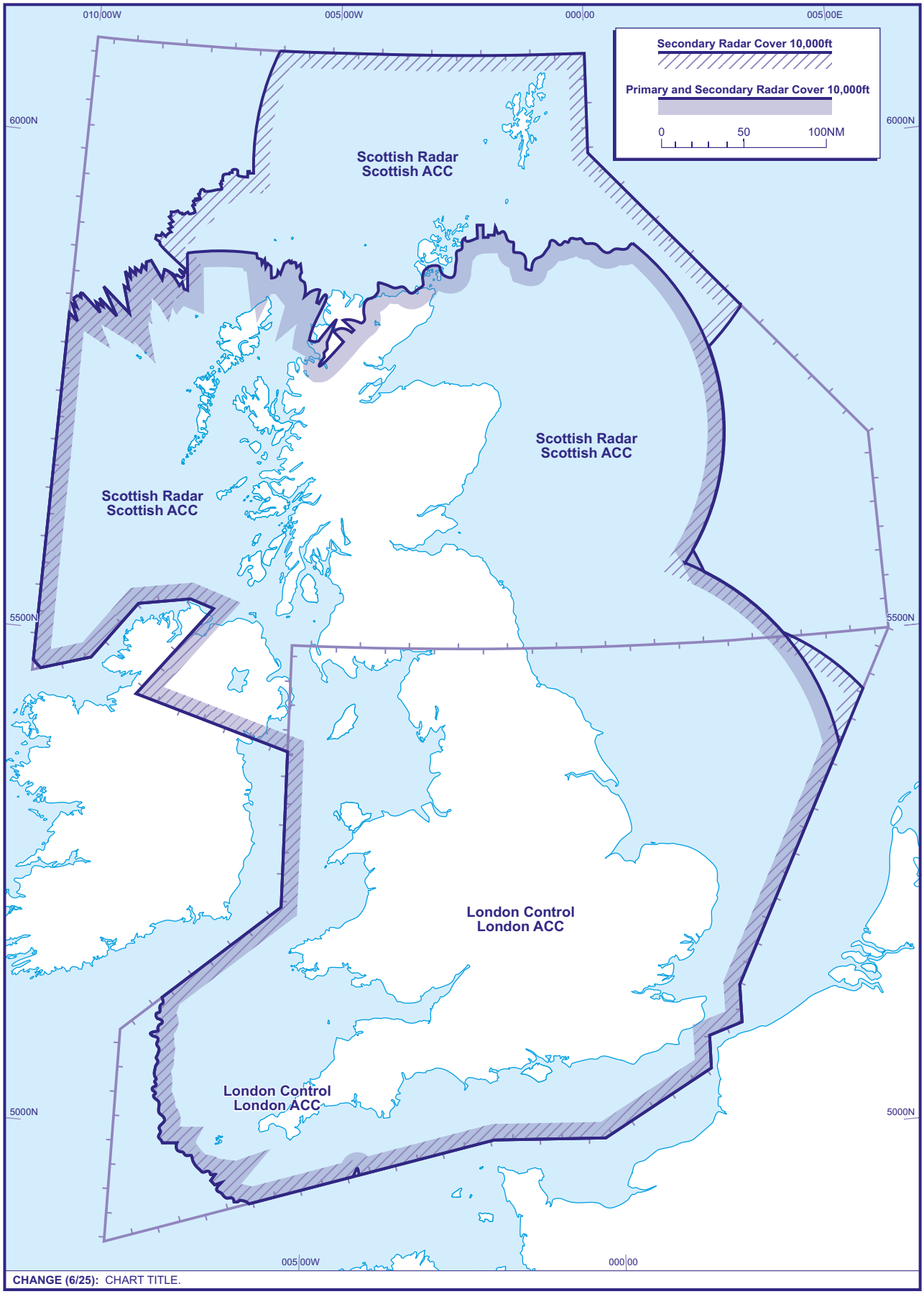
TRAs may be activated at other times by NOTAM.

Note 2 FORTH CTA 2:
This CTA is only established between Saturday 0001 (2301) and Sunday 2359 (2259).

Note 3 FORTH CTA 3:
Activation of CTA 3 - Unavailability as specified by NOTAM when required for MOD access or by activation of EGD074Z.

CHANGE (6/25): CHART TITLE REVISED. BERRY HEAD CTA 7 LATERAL LIMITS REVISED. TRA 001 LATERAL LIMITS REVISED.

THEORETICAL NATS PRIMARY AND SECONDARY RADAR COVERAGE AT 10000FT WITHIN THE LONDON FIR AND SCOTTISH FIR

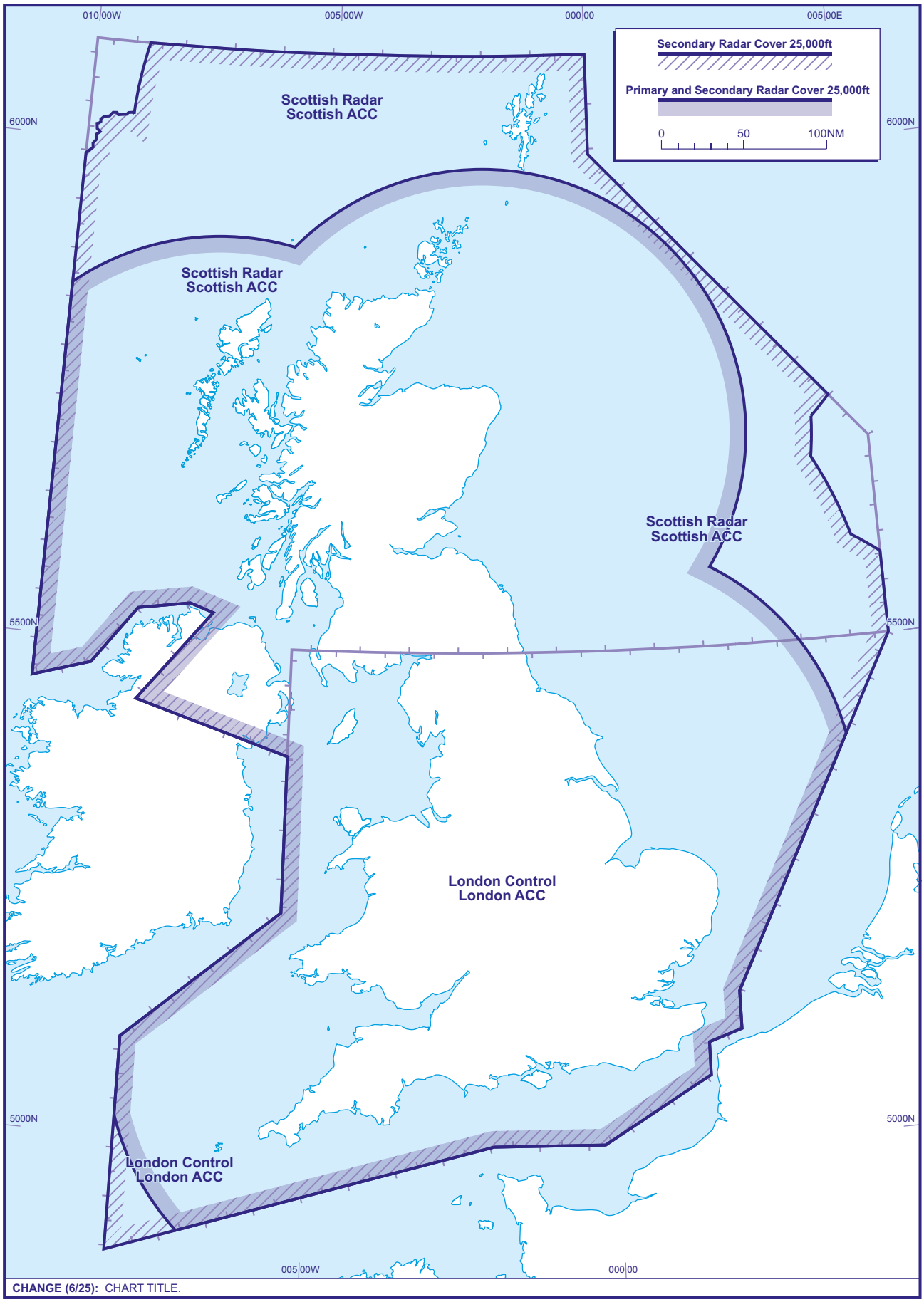


CHANGE (6/25): CHART TITLE.

AERO INFO DATE 01 APR 25

ENR 6-9

THEORETICAL NATS PRIMARY AND SECONDARY RADAR COVERAGE AT 25000FT WITHIN THE LONDON UIR AND SCOTTISH UIR

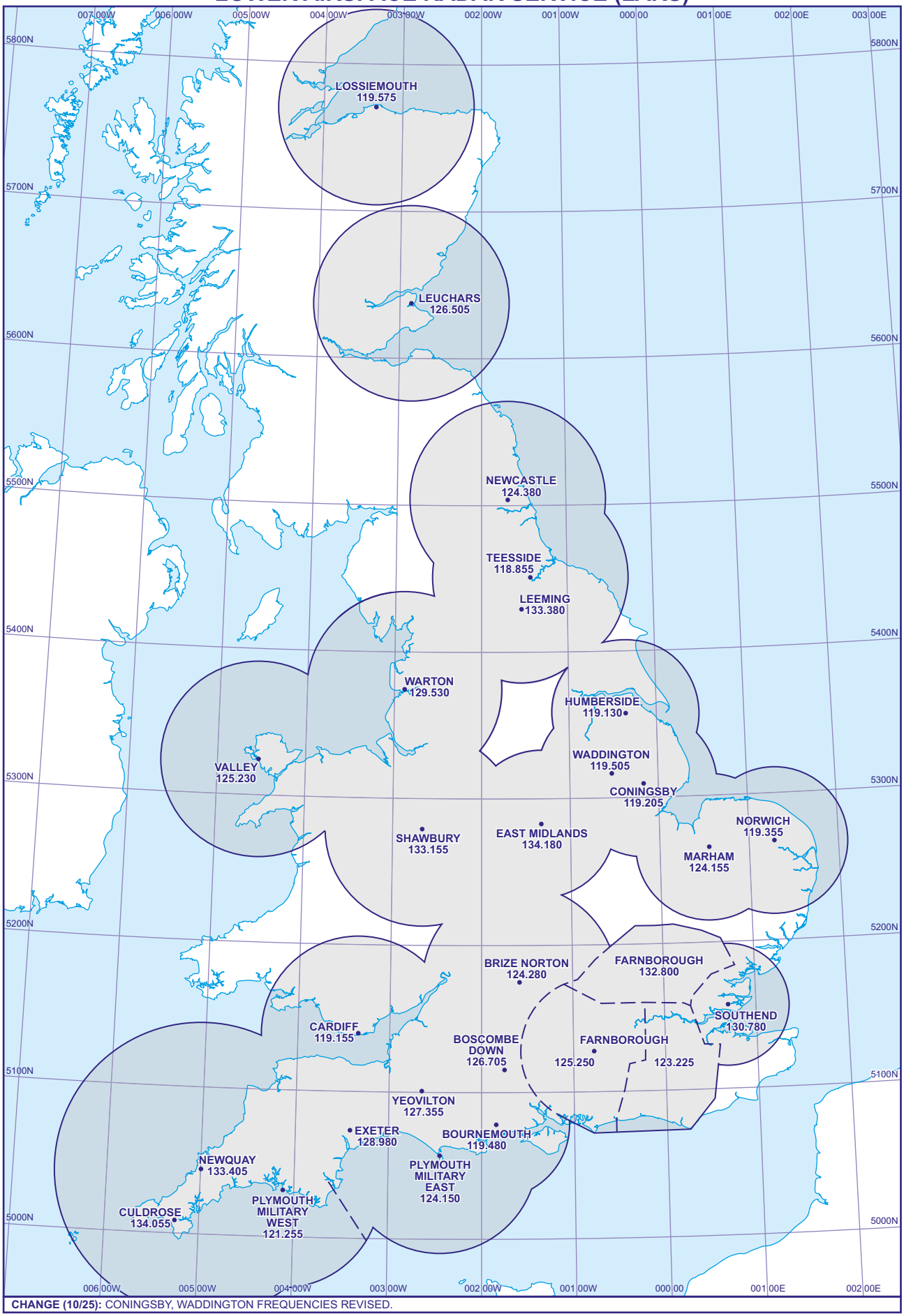


CHANGE (6/25): CHART TITLE.

AERO INFO DATE 21 MAR 25

ENR 6-10

LOWER AIRSPACE RADAR SERVICE (LARS)

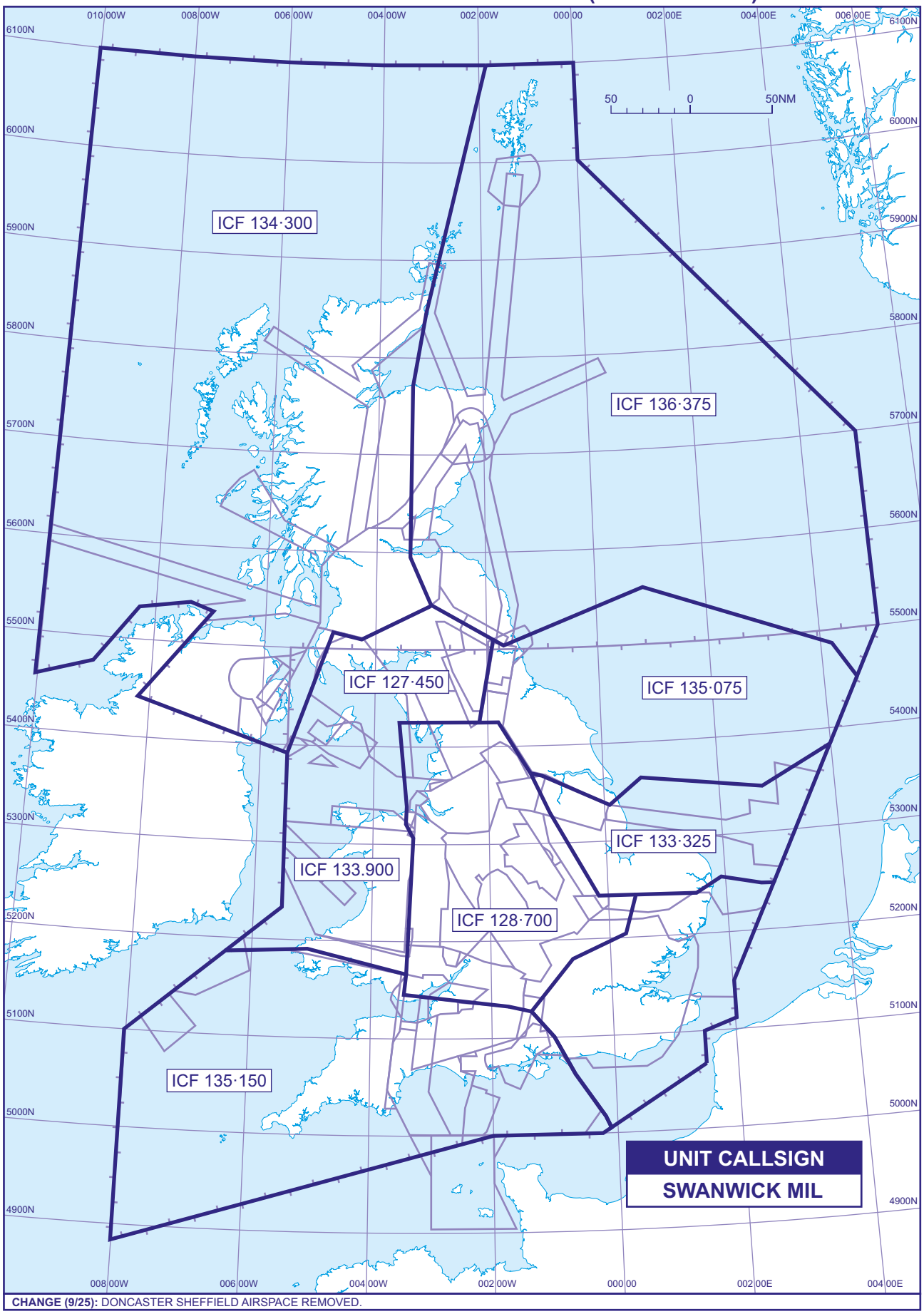


CHANGE (10/25): CONINGSBY, WADDINGTON FREQUENCIES REVISED.

AERO INFO DATE 24 JUL 25

ENR 6-11

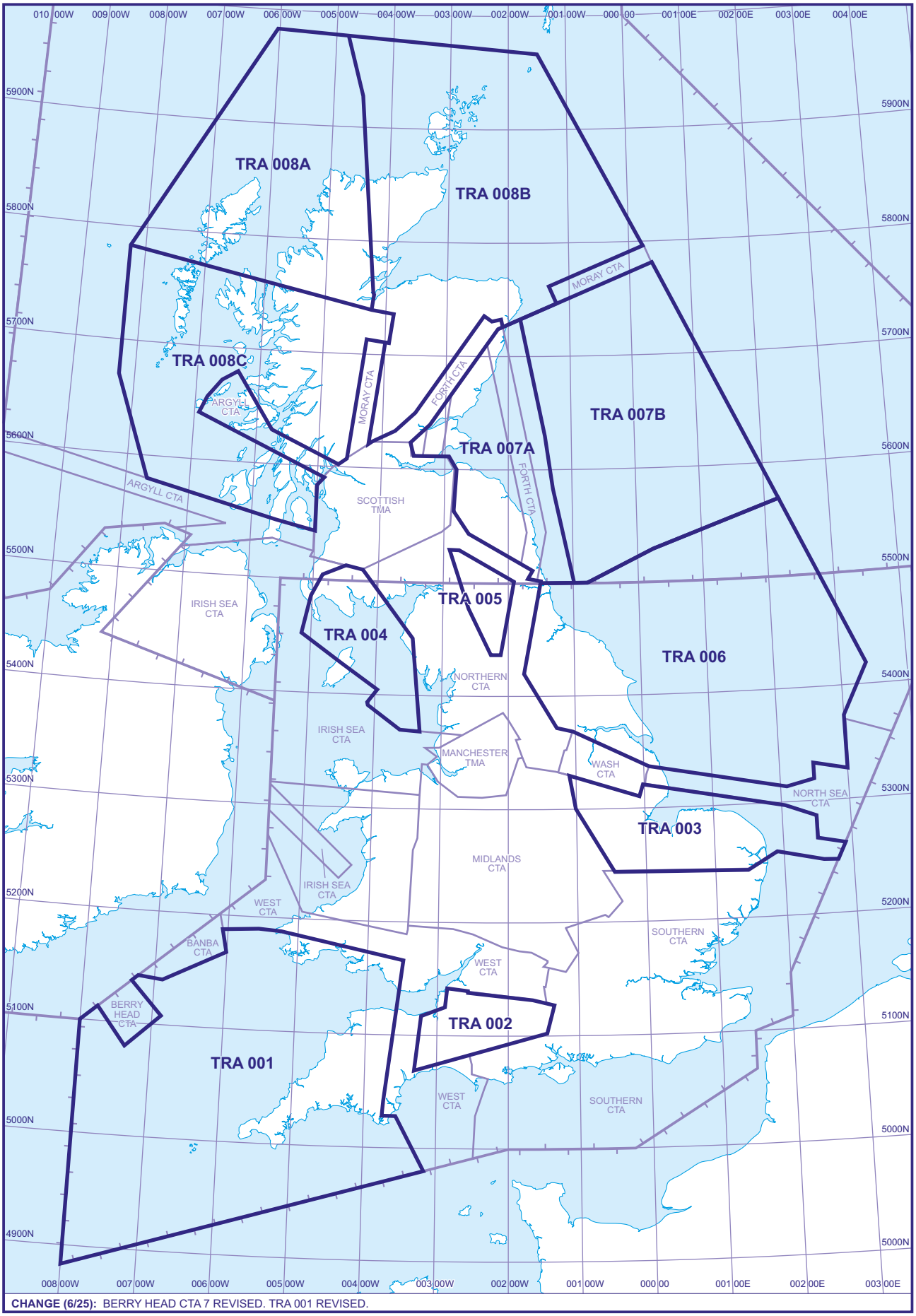
RADAR SERVICE - FL100 AND ABOVE (OUTSIDE CAS)



CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

AERO INFO DATE 06 JUN 25

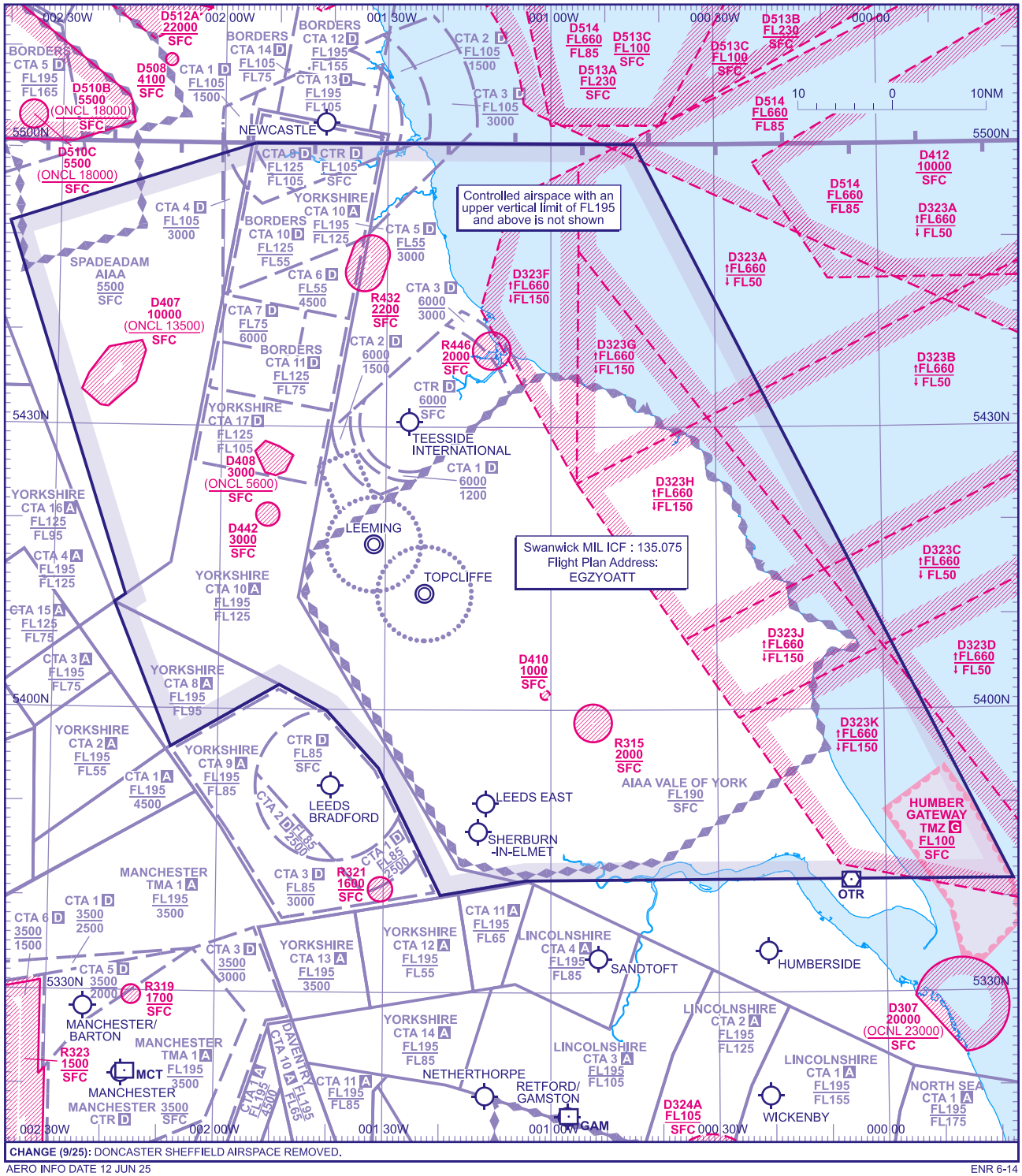
TEMPORARY RESERVED AREAS (TRA)



CHANGE (6/25): BERRY HEAD CTA 7 REVISED. TRA 001 REVISED.

AERO INFO DATE 24 MAR 25

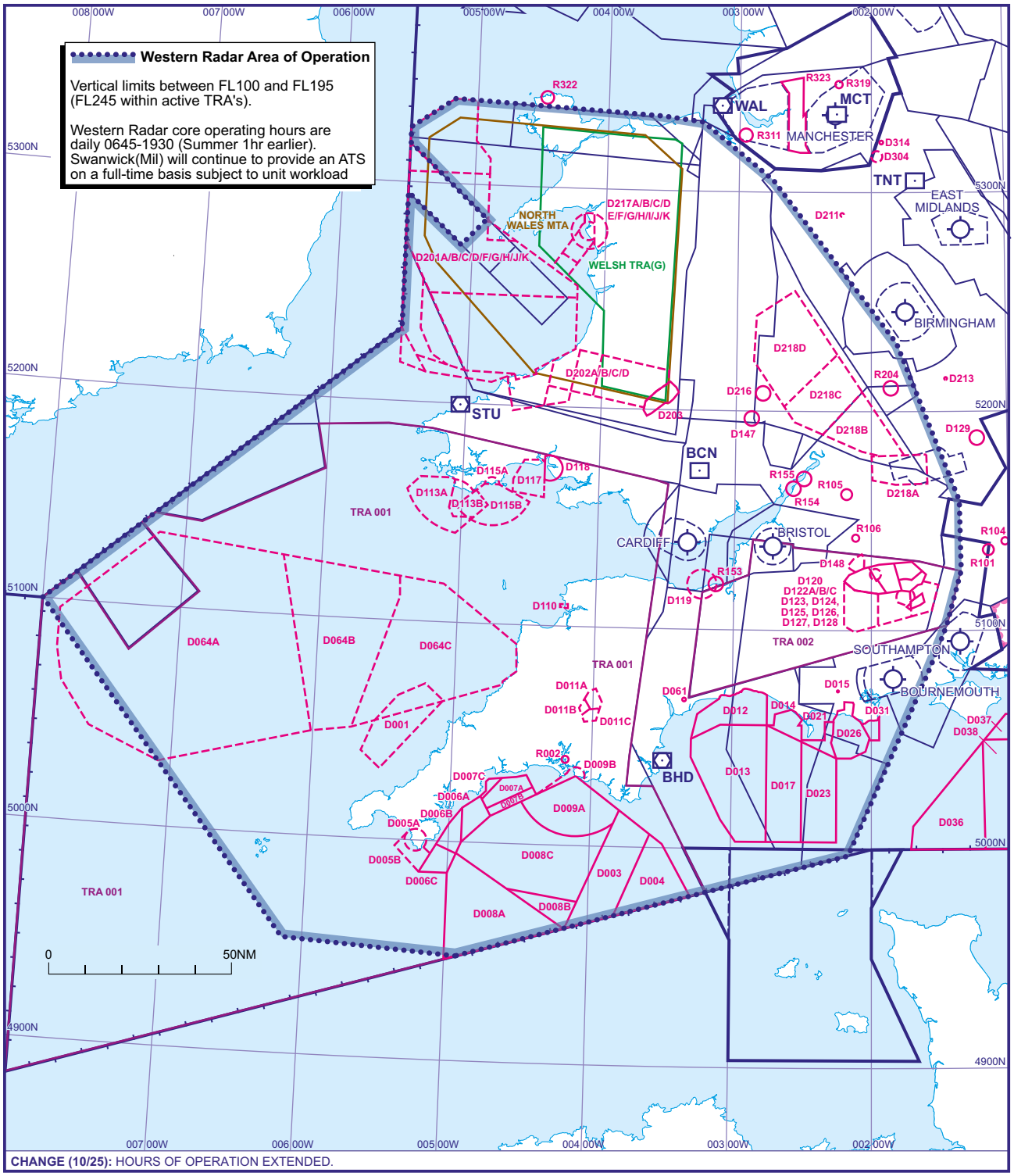
(FORMER) PENNINE RADAR AREA OF RESPONSIBILITY FL55 - FL195



AERO INFO DATE 12 JUN 25

ENR 6-14

WESTERN RADAR AREA OF OPERATION

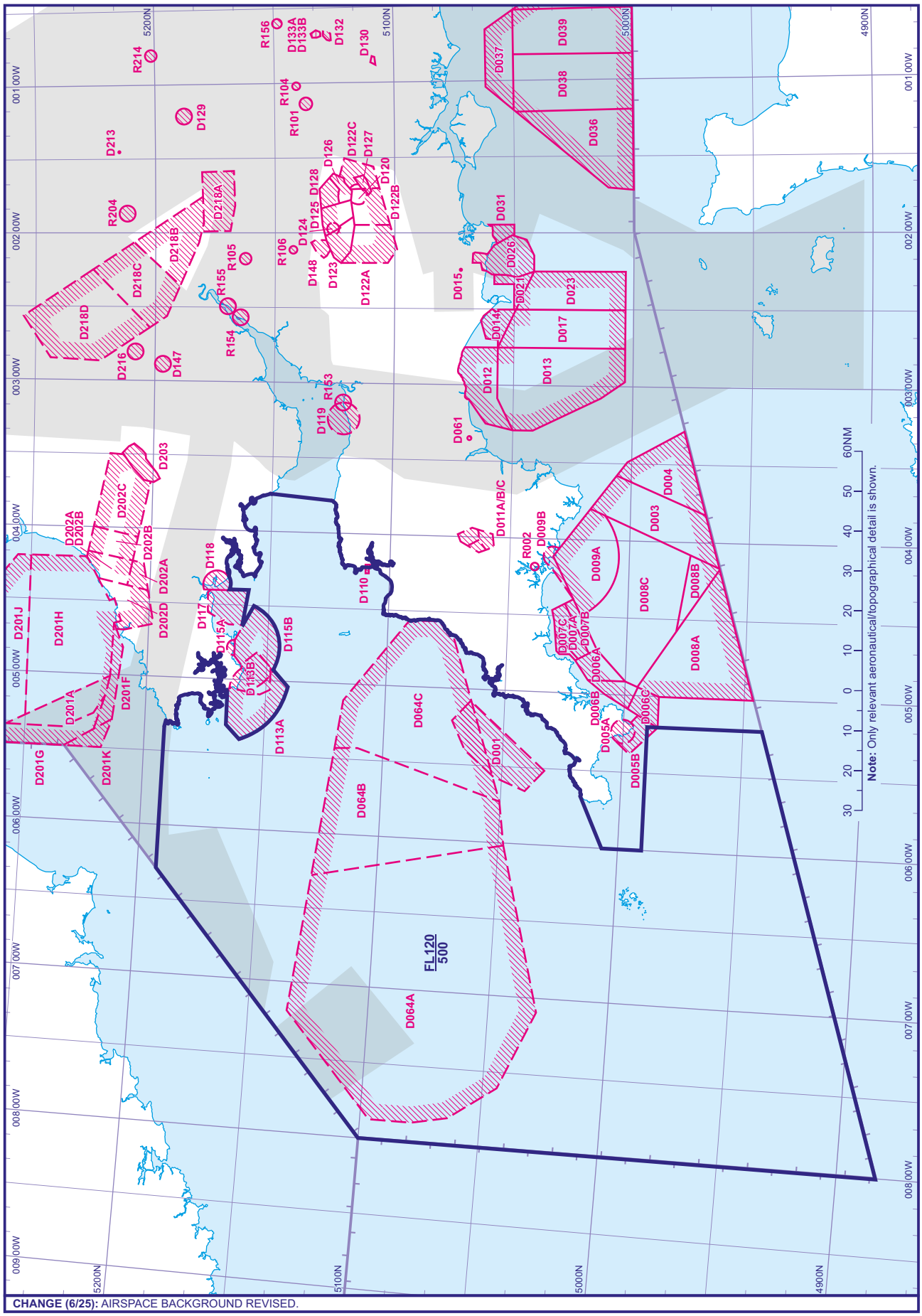


CHANGE (10/25): HOURS OF OPERATION EXTENDED.

AERO INFO DATE 07 JUL 25

ENR 6-15

ROYAL NAVAL NAVIGATIONAL TRAINING FLYING – SOUTH WEST APPROACHES

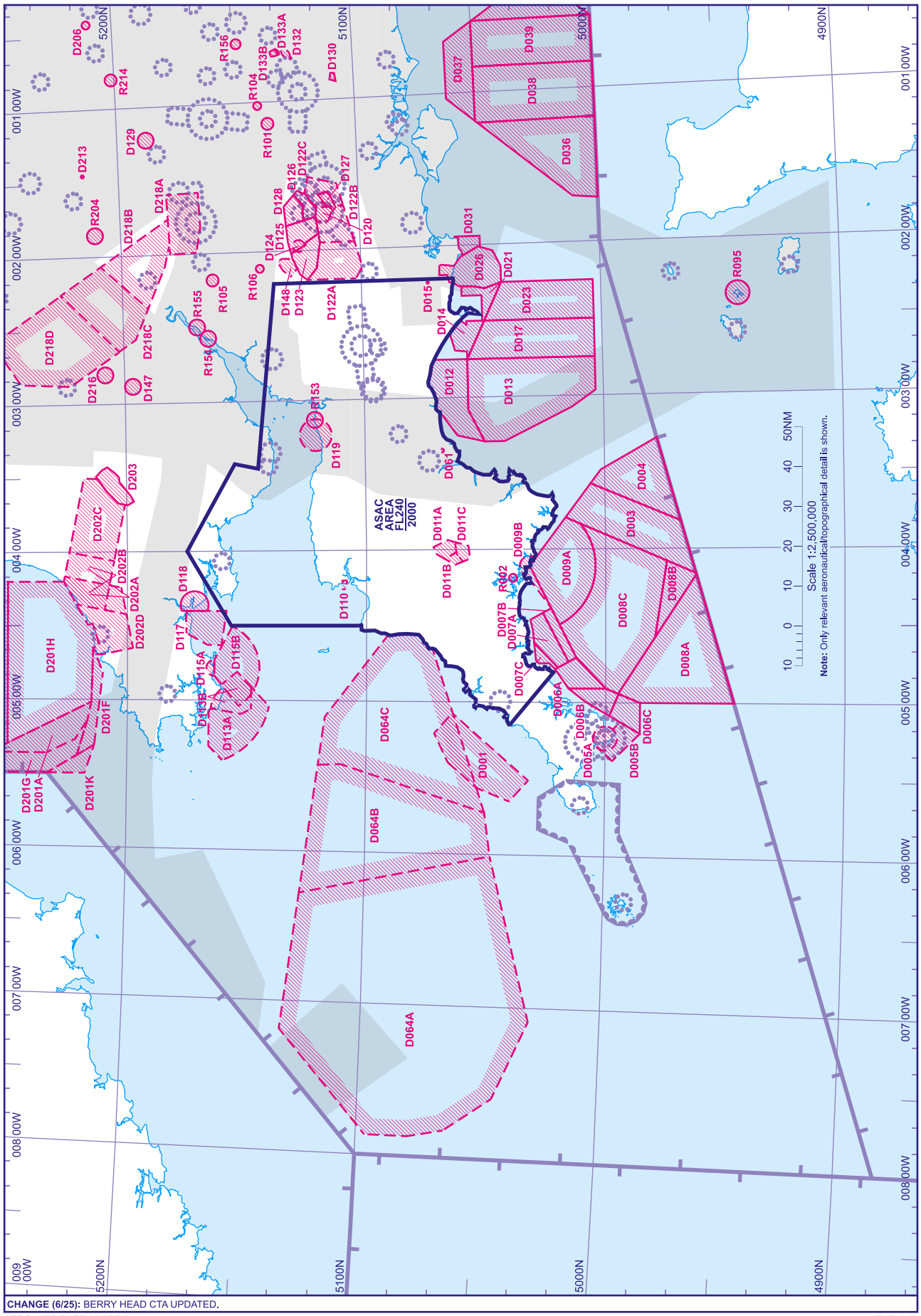


CHANGE (6/25): AIRSPACE BACKGROUND REVISED.

AERO INFO DATE 24 MAR 25

ENR 6-16

ROYAL NAVY AIRBORNE SURVEILLANCE AND CONTROL (ASAC) TRAINING AREA



CHANGE (6/25): BERRY HEAD CTA UPDATED.

AERO INFO DATE 02 APR 25

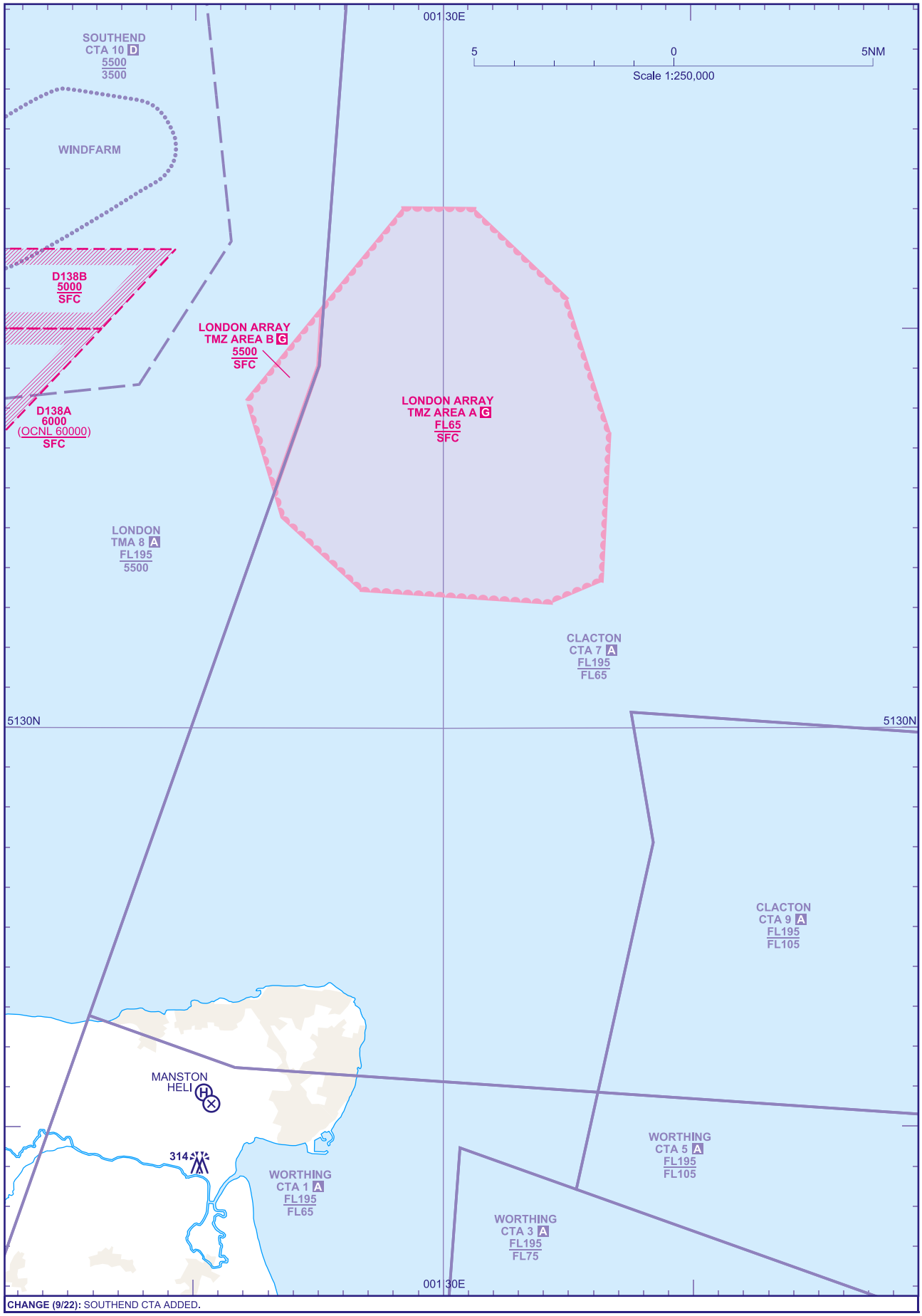
ENR 6-17

UNITED KINGDOM ALTIMETER SETTING AND FLIGHT INFORMATION REGIONS



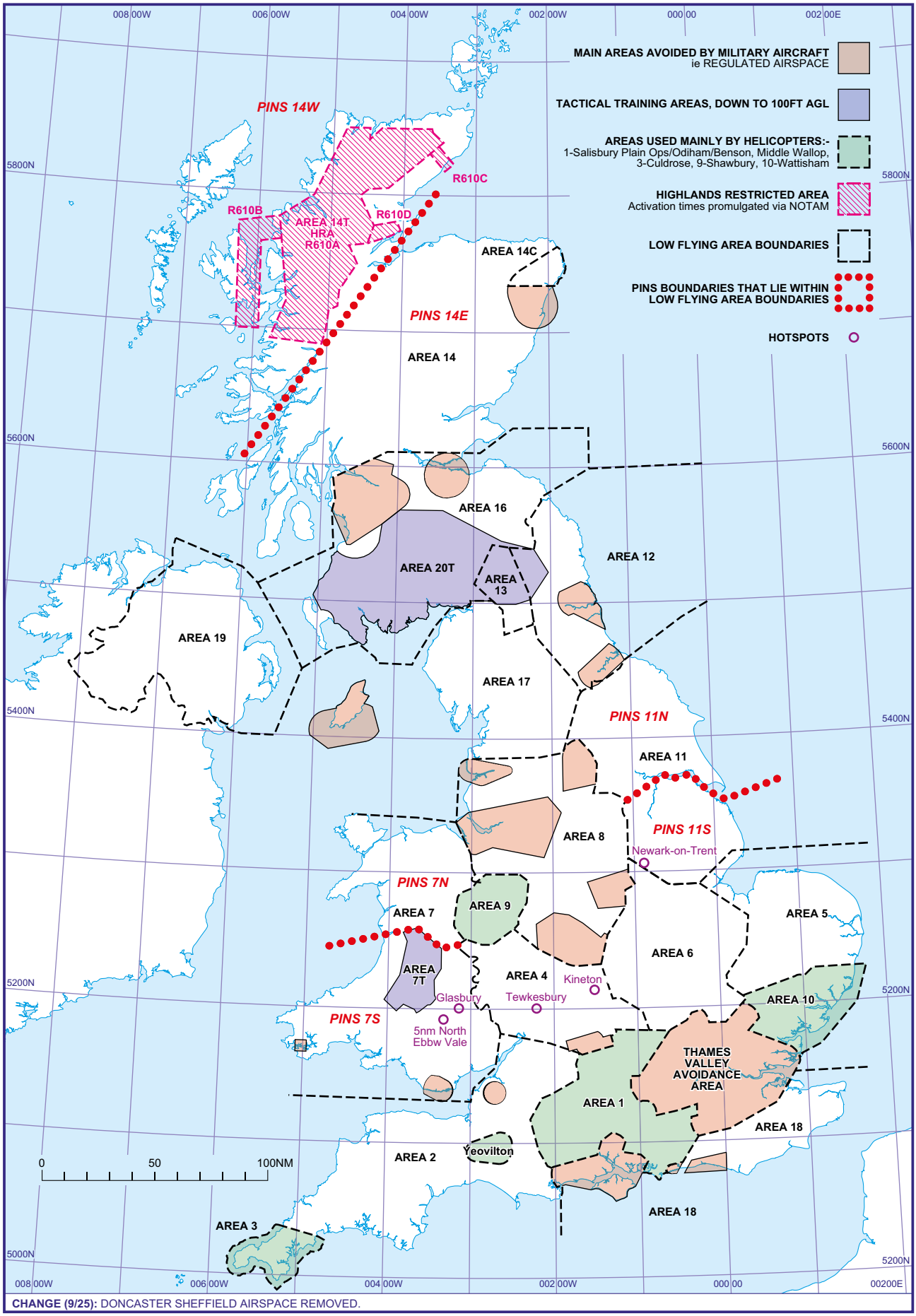
CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

LONDON ARRAY TRANSPONDER MANDATORY ZONE



CHANGE (9/22): SOUTHEND CTA ADDED.

PINS AREAS AND UK DAY LOW FLYING SYSTEM (DLFS)

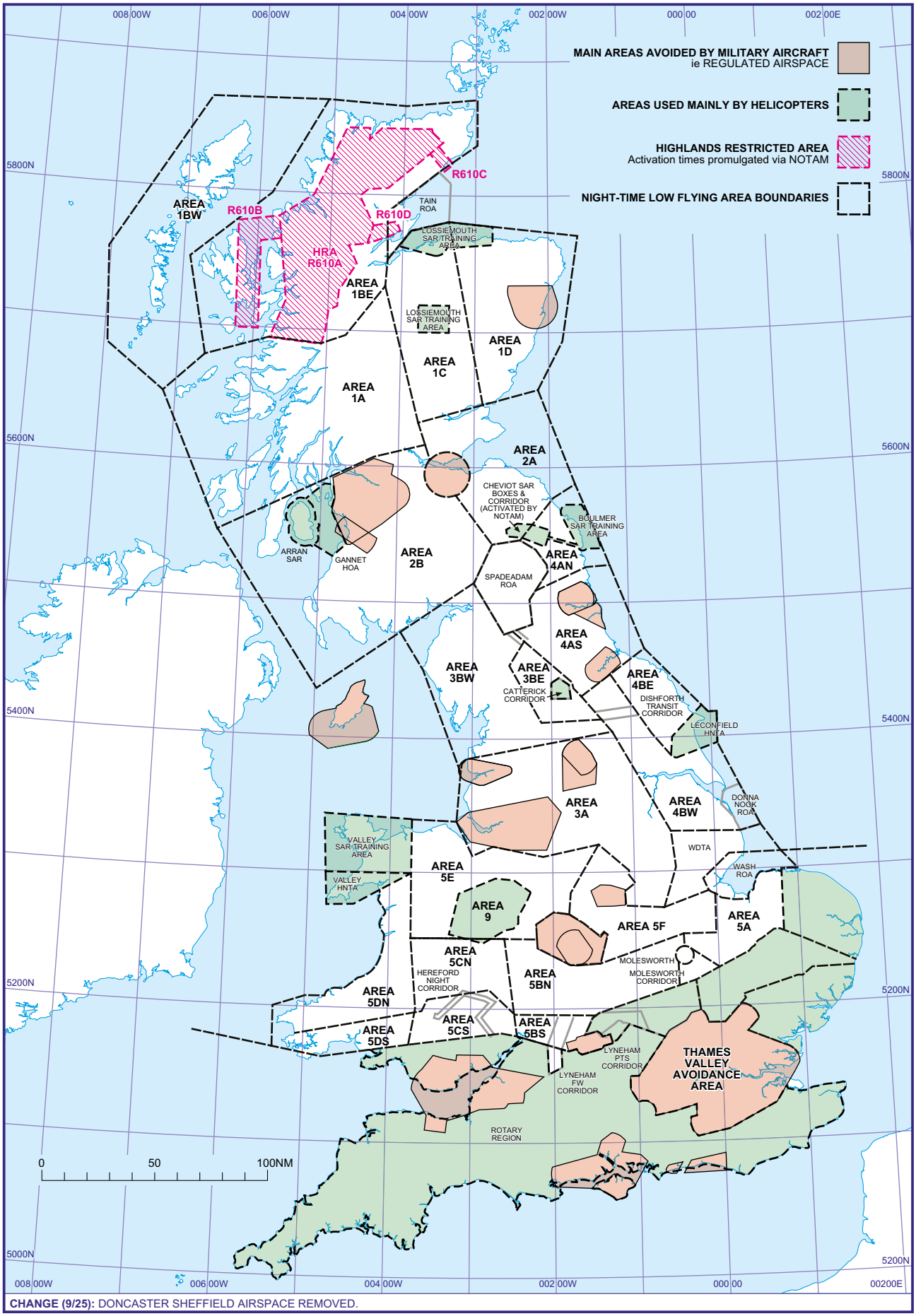


CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

AERO INFO DATE 09 JUN 25

ENR 6-20

UK NIGHT LOW FLYING SYSTEM (NLFS)

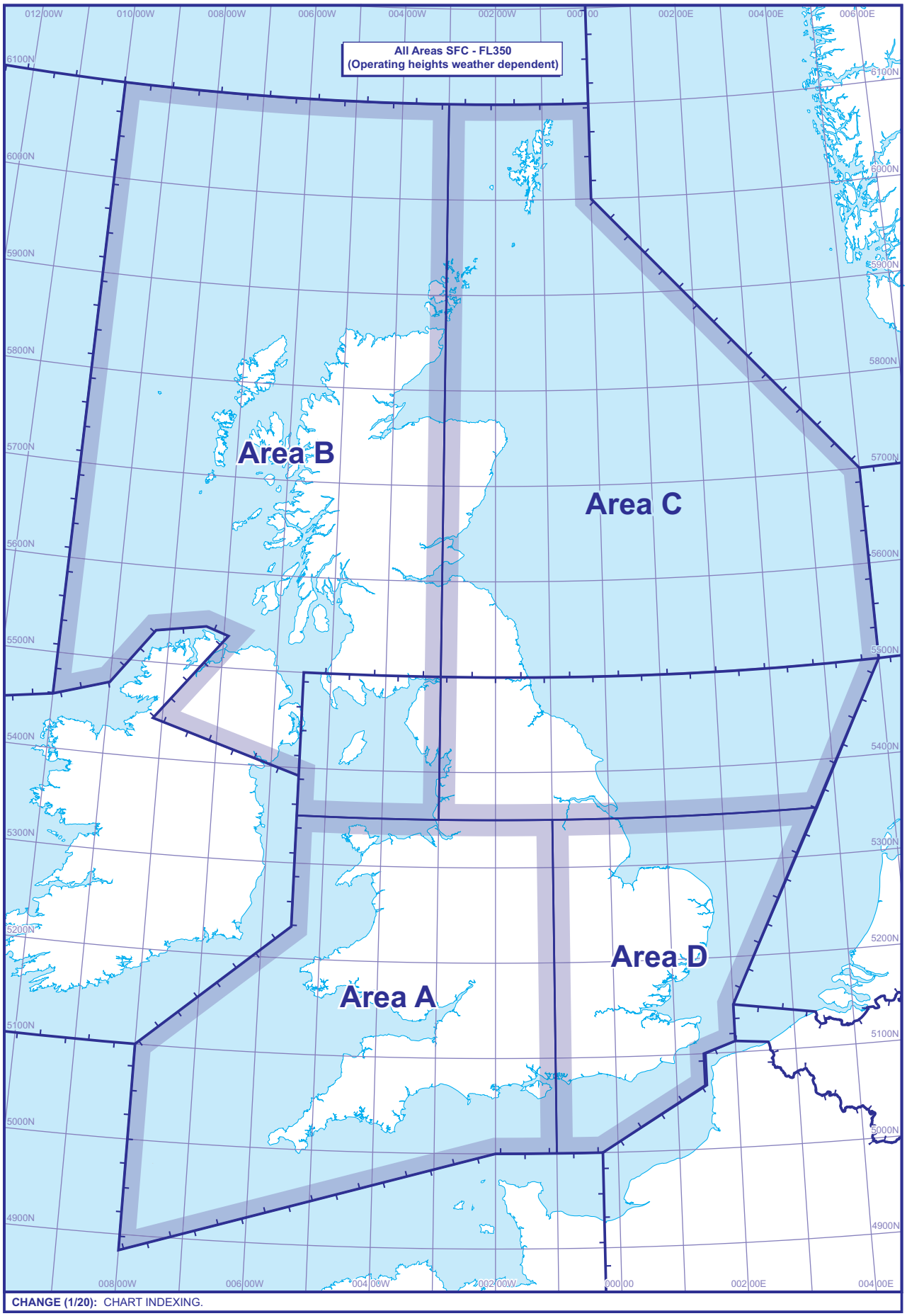


CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

AERO INFO DATE 09 JUN 25

ENR 6-21

MET RESEARCH/DROP SONDE FLIGHTS

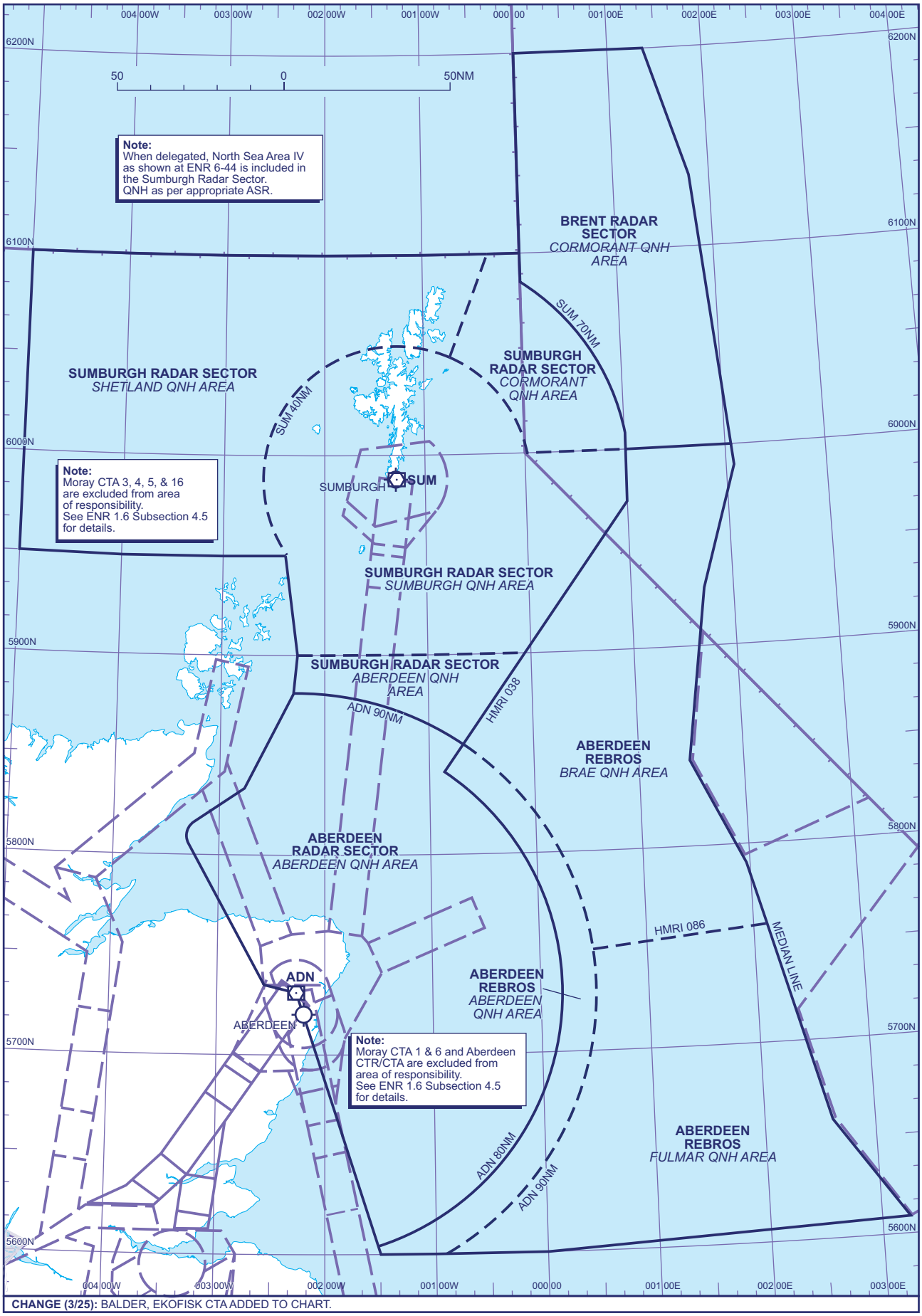


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 24 SEP 19

ENR 6-22

NORTHERN NORTH SEA - ABERDEEN ATSU OFFSHORE AREAS OF RESPONSIBILITY AND QNH USED

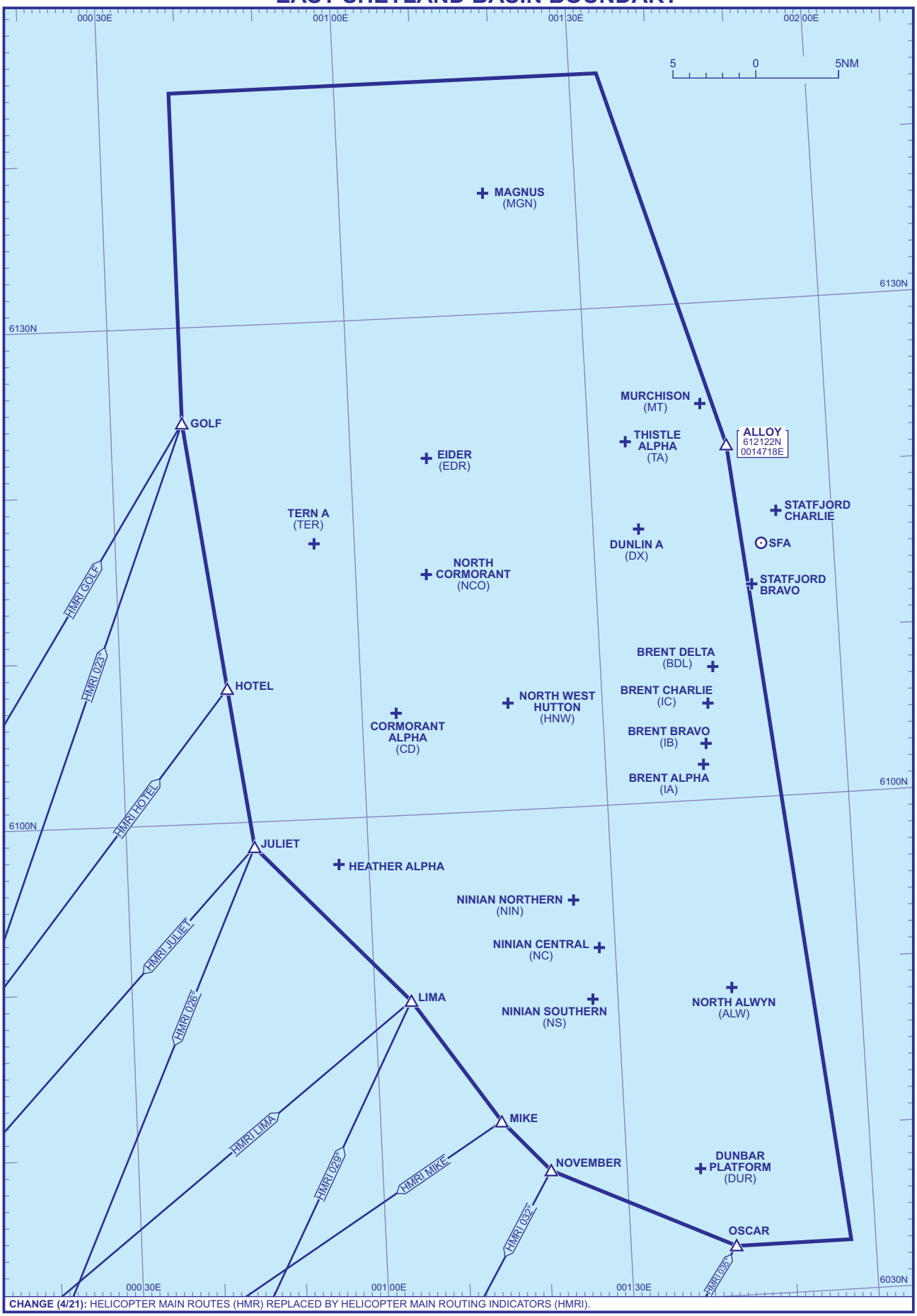


CHANGE (3/25): BALDER, EKOFISK CTA ADDED TO CHART.

AERO INFO DATE 20 DEC 24

ENR 6-23

EAST SHETLAND BASIN BOUNDARY



CHANGE (4/21): HELICOPTER MAIN ROUTES (HMR) REPLACED BY HELICOPTER MAIN ROUTING INDICATORS (HMRI).

AERO INFO DATE 25 JAN 21

ENR 6-24

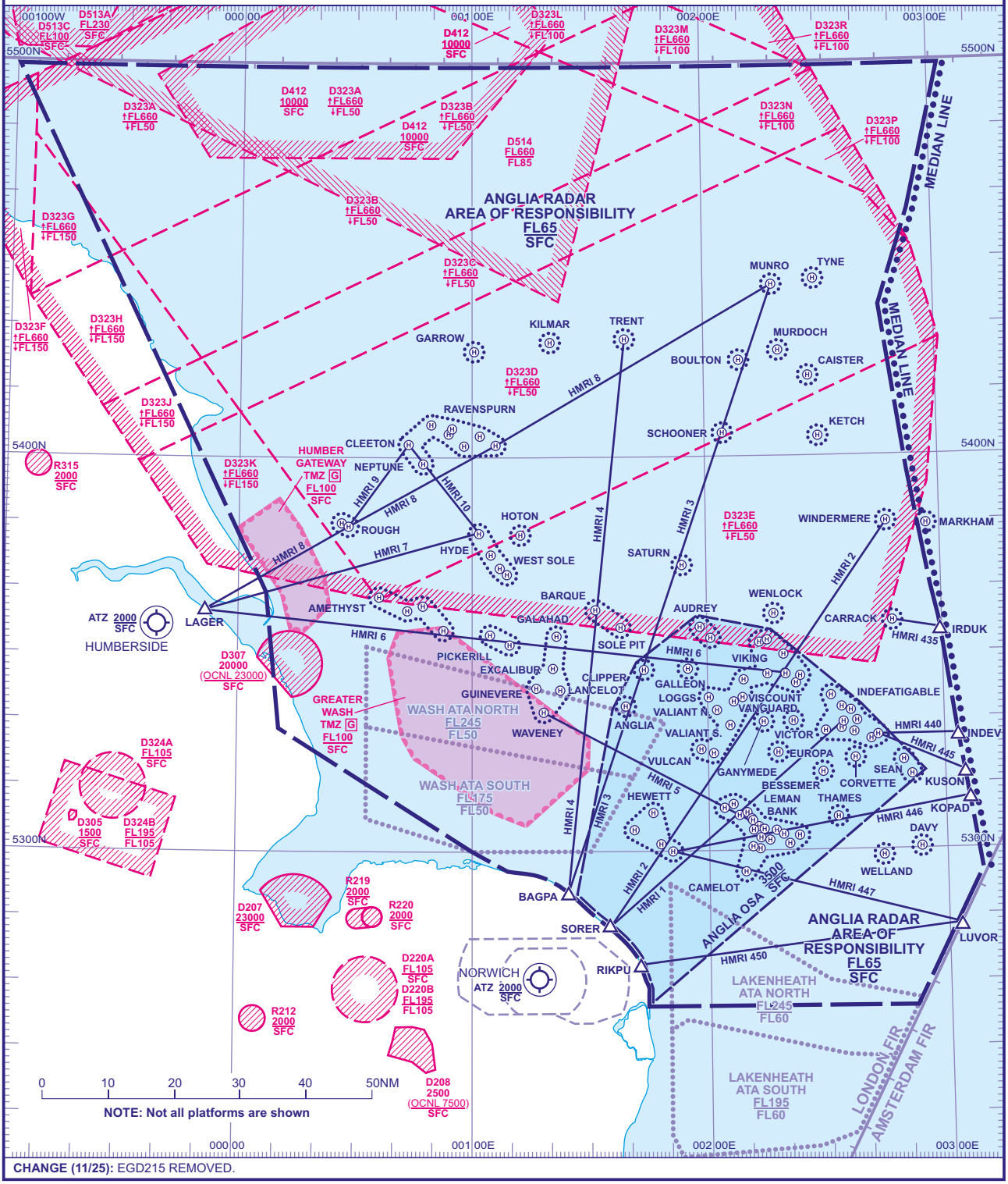
SOUTHERN NORTH SEA - ABERDEEN ATSU (ANGLIA RADAR) AREA OF RESPONSIBILITY AND ANGLIA OFFSHORE SAFETY AREA (OSA)

NOTES

1. All HMRI beneath EGD323D, EGD323E, EGD323K and the Lakenheath ATA North are restricted to FL40 unless cleared by Anglia Radar.
2. Helicopters will normally plan to fly at the following en-route altitudes:-

Outbound (land to sea)	Inbound (sea to land)
2000'ALT & 3000'ALT	1500'ALT & 2500'ALT

Above Transition Altitude (3000'ALT) aircraft should conform to Semi-circular Rule.

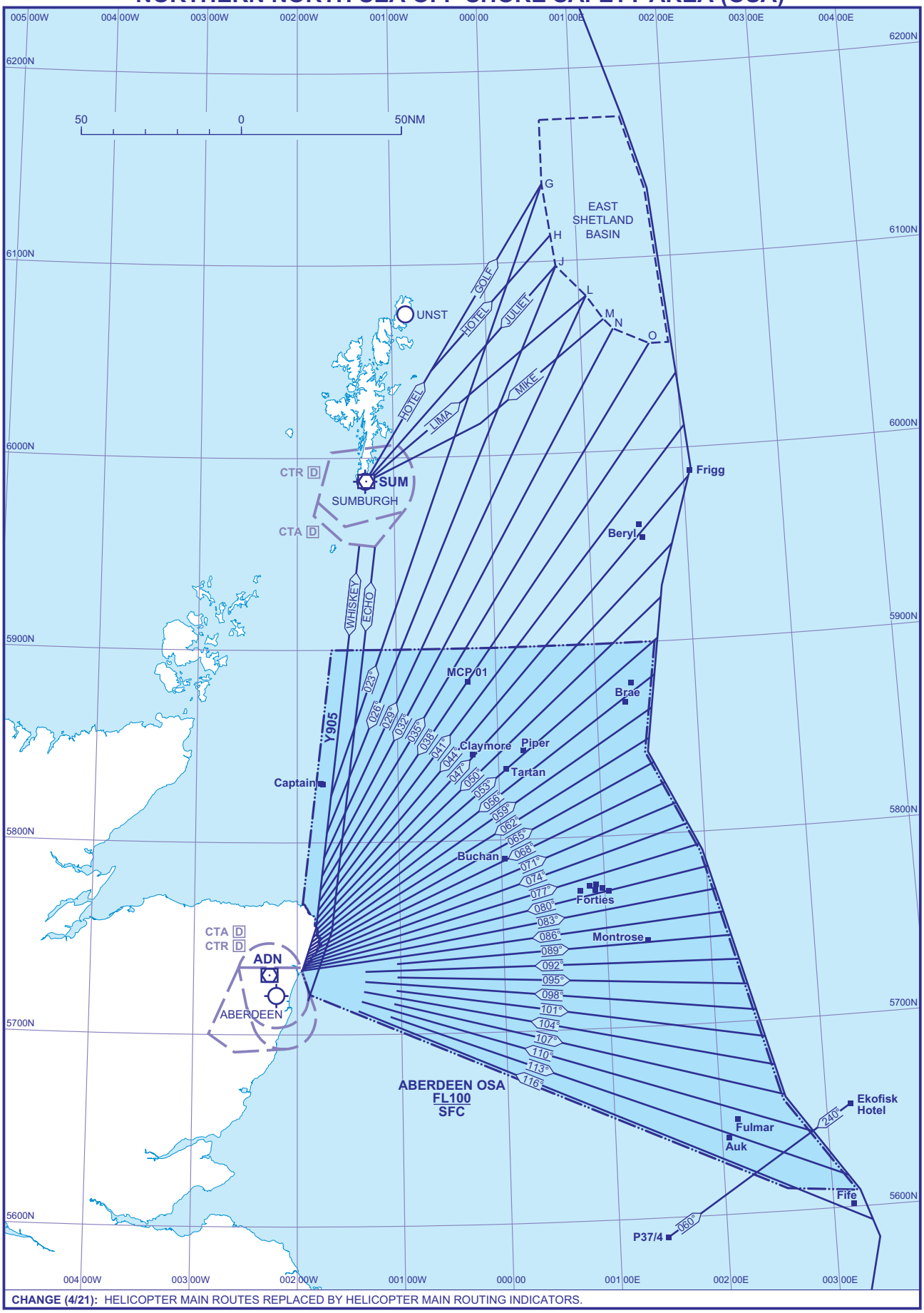


CHANGE (11/25): EGD215 REMOVED.

AERO INFO DATE 05 AUG 25

ENR 6-25

HELICOPTER MAIN ROUTING INDICATORS (HMRI) AND NORTHERN NORTH SEA OFF-SHORE SAFETY AREA (OSA)

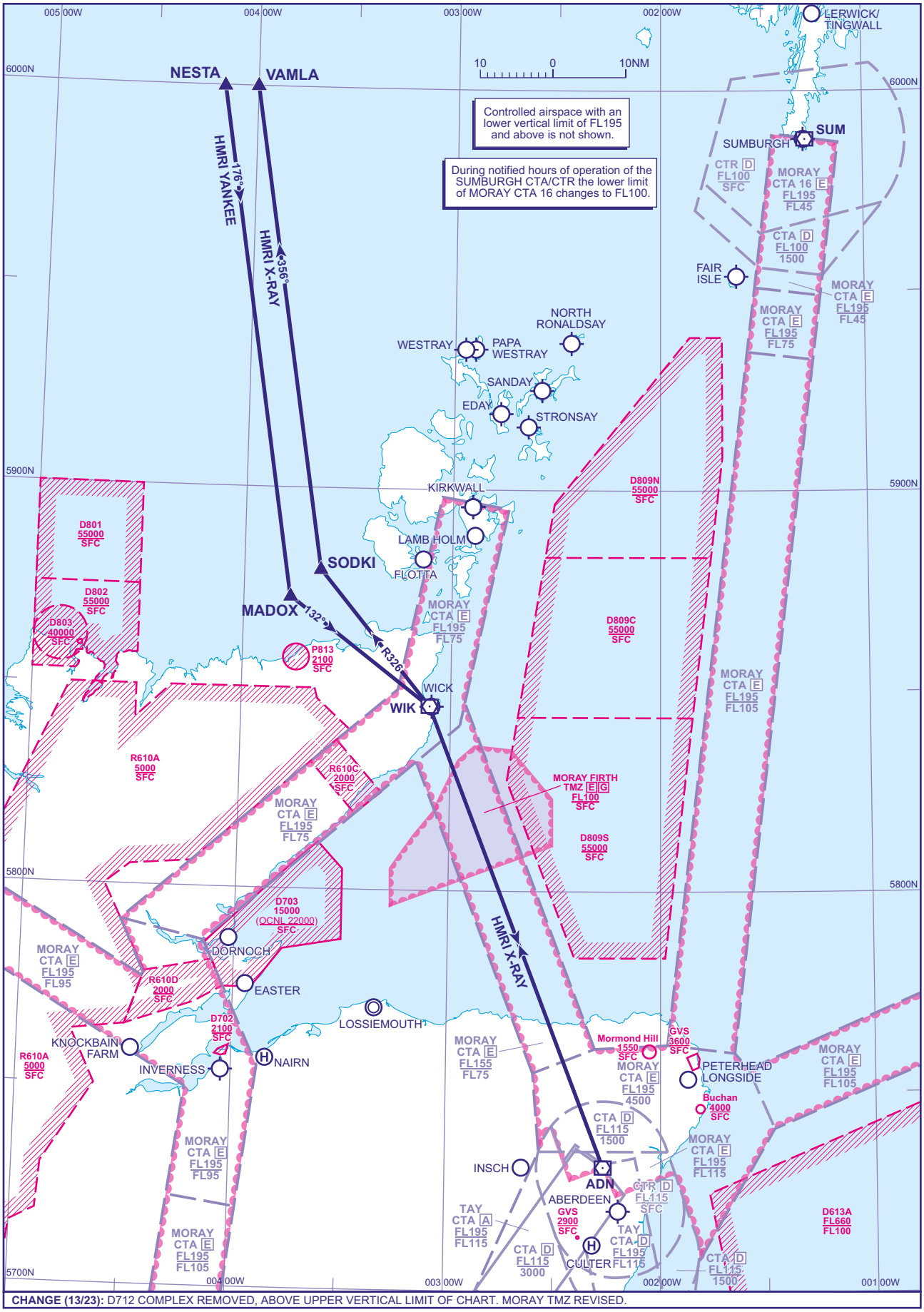


CHANGE (4/21): HELICOPTER MAIN ROUTES REPLACED BY HELICOPTER MAIN ROUTING INDICATORS.

AERO INFO DATE 25 JAN 21

ENR 6-26

ABERDEEN - ATLANTIC RIM HMRI X-RAY/YANKEE

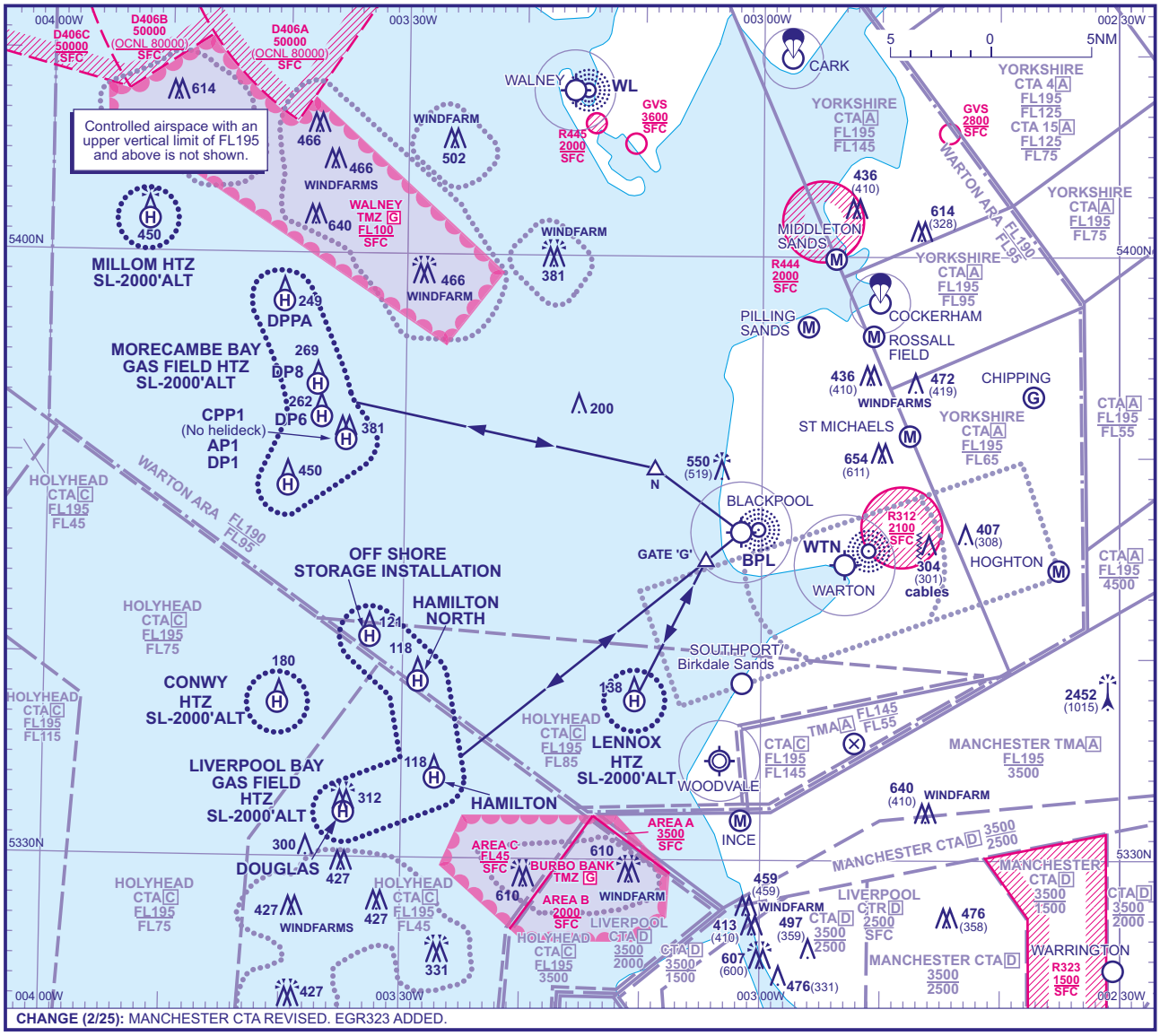


CHANGE (13/23): D712 COMPLEX REMOVED, ABOVE UPPER VERTICAL LIMIT OF CHART. MORAY TMZ REVISED.

AERO INFO DATE 19 OCT 23

ENR 6-27

MORECAMBE BAY/LIVERPOOL BAY GAS FIELD HELICOPTER SUPPORT FLIGHTS

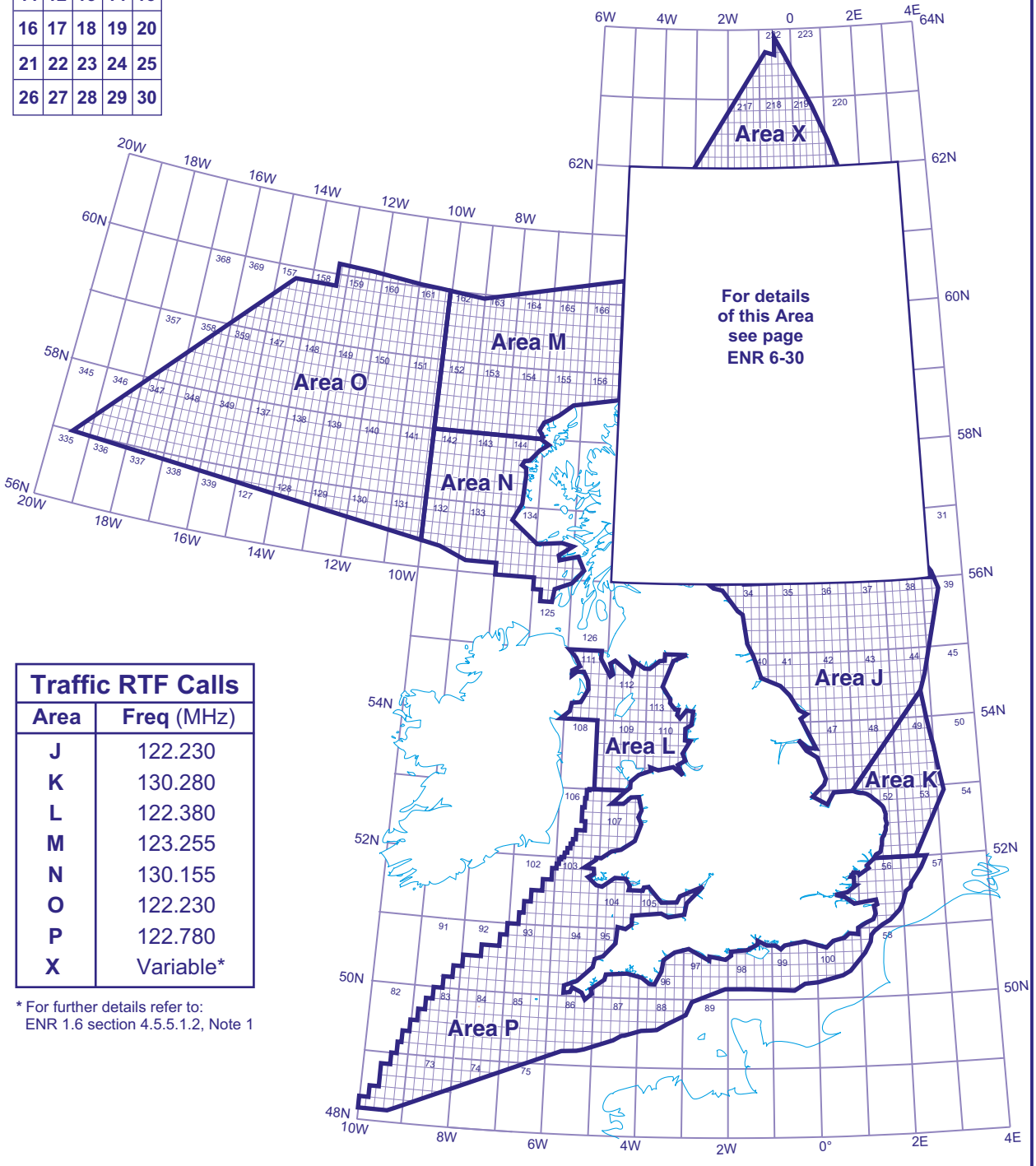


CHANGE (2/25): MANCHESTER CTA REVISED. EGR323 ADDED.

RTF FREQUENCY ALLOCATIONS FOR MOBILE INSTALLATIONS IN THE UK AREAS UNDER CONCESSION

Key to Sub Blocks

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30



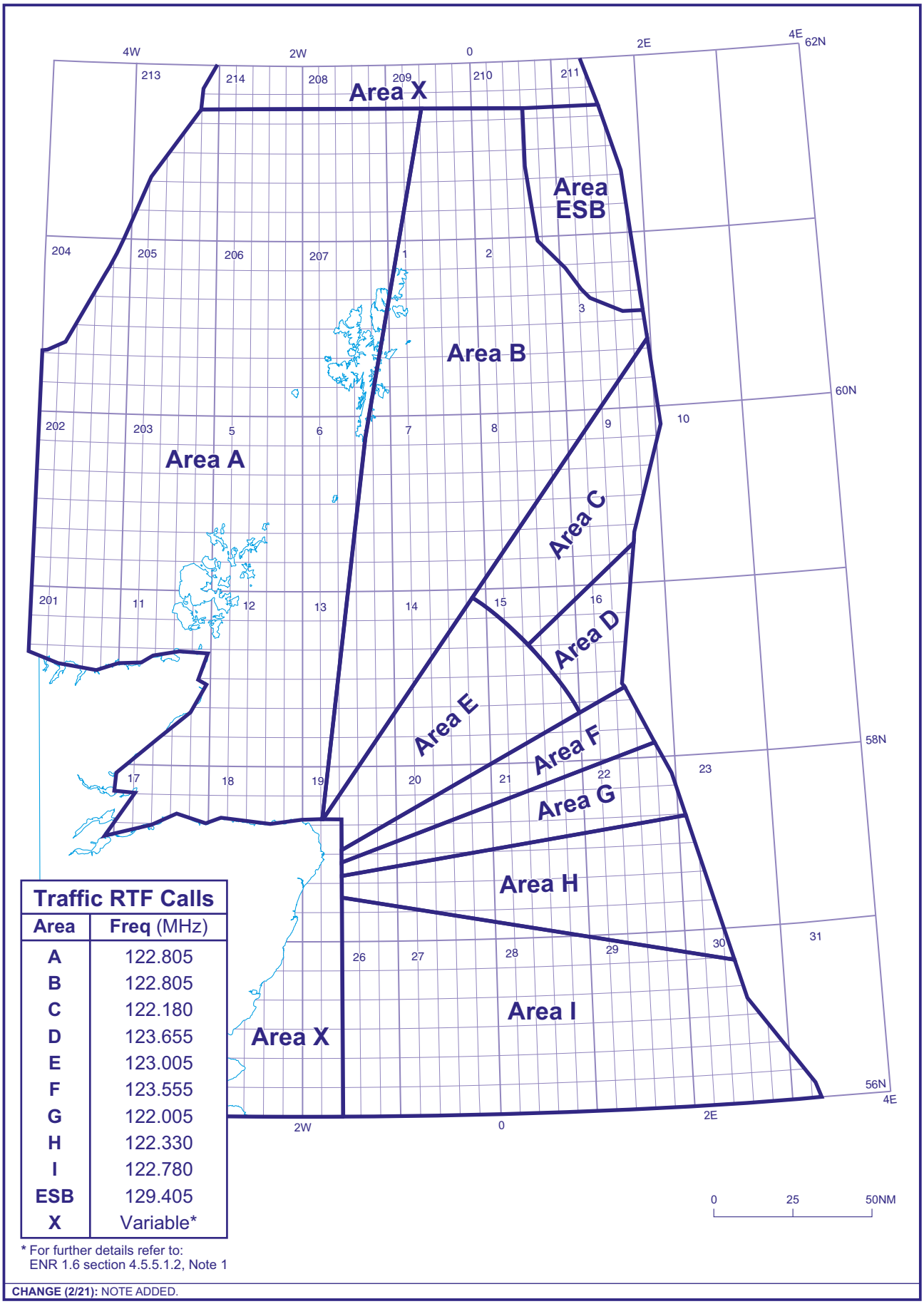
Traffic RTF Calls	
Area	**Freq** (MHz)
J	122.230
K	130.280
L	122.380
M	123.255
N	130.155
O	122.230
P	122.780
X	Variable*

* For further details refer to:
ENR 1.6 section 4.5.5.1.2, Note 1

CHANGE (2/21): NOTE ADDED.

AERO INFO DATE 30 NOV 20

RTF FREQUENCY ALLOCATIONS FOR MOBILE INSTALLATIONS IN THE UK AREAS UNDER CONCESSION



Traffic RTF Calls	
Area	Freq (MHz)
A	122.805
B	122.805
C	122.180
D	123.655
E	123.005
F	123.555
G	122.005
H	122.330
I	122.780
ESB	129.405
X	Variable*

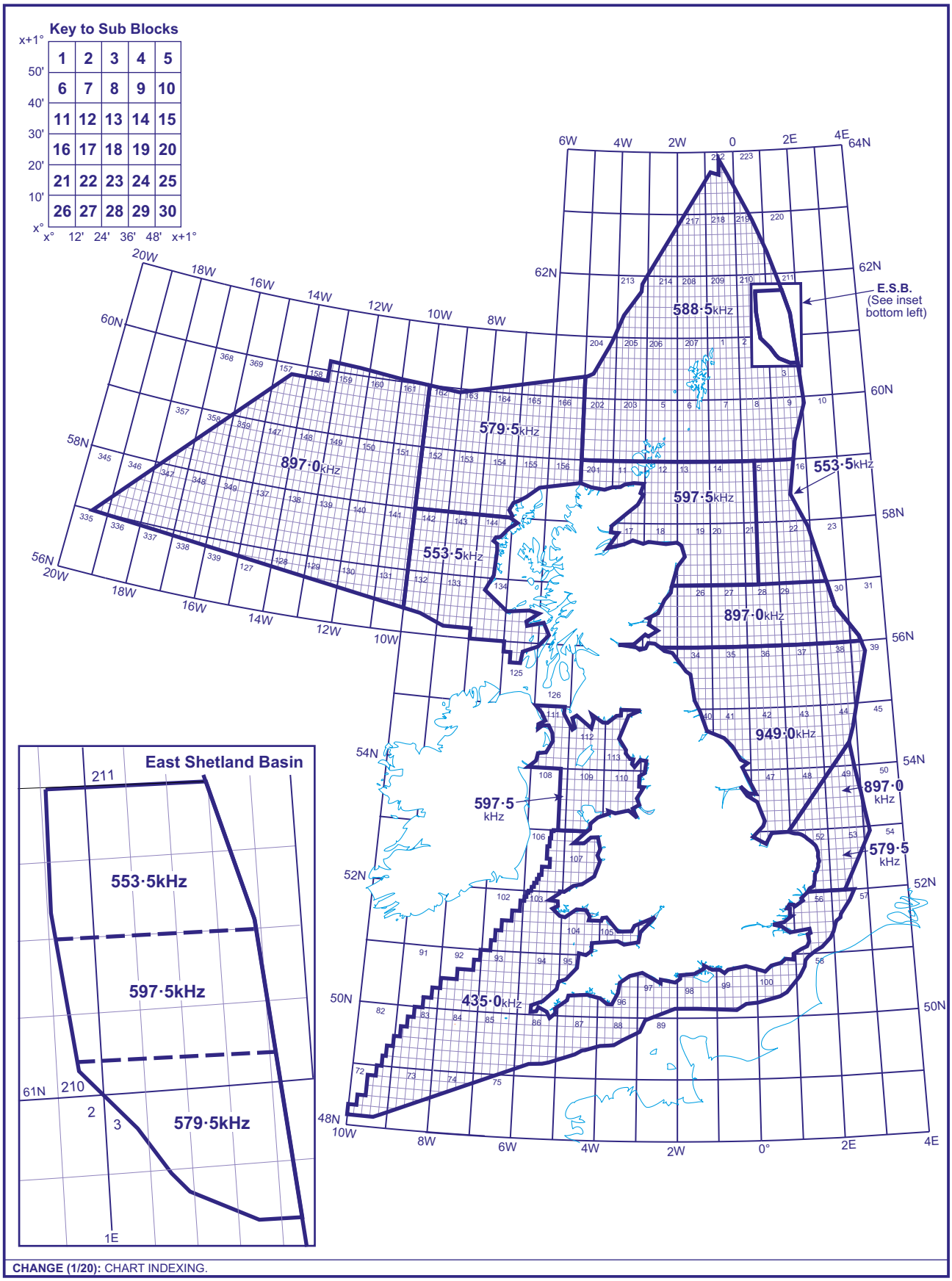
* For further details refer to:
ENR 1.6 section 4.5.5.1.2, Note 1

CHANGE (2/21): NOTE ADDED.

AERO INFO DATE 07 DEC 20

ENR 6-30

NDB FREQUENCY ALLOCATIONS FOR MOBILE INSTALLATIONS IN THE UK AREAS UNDER CONCESSION



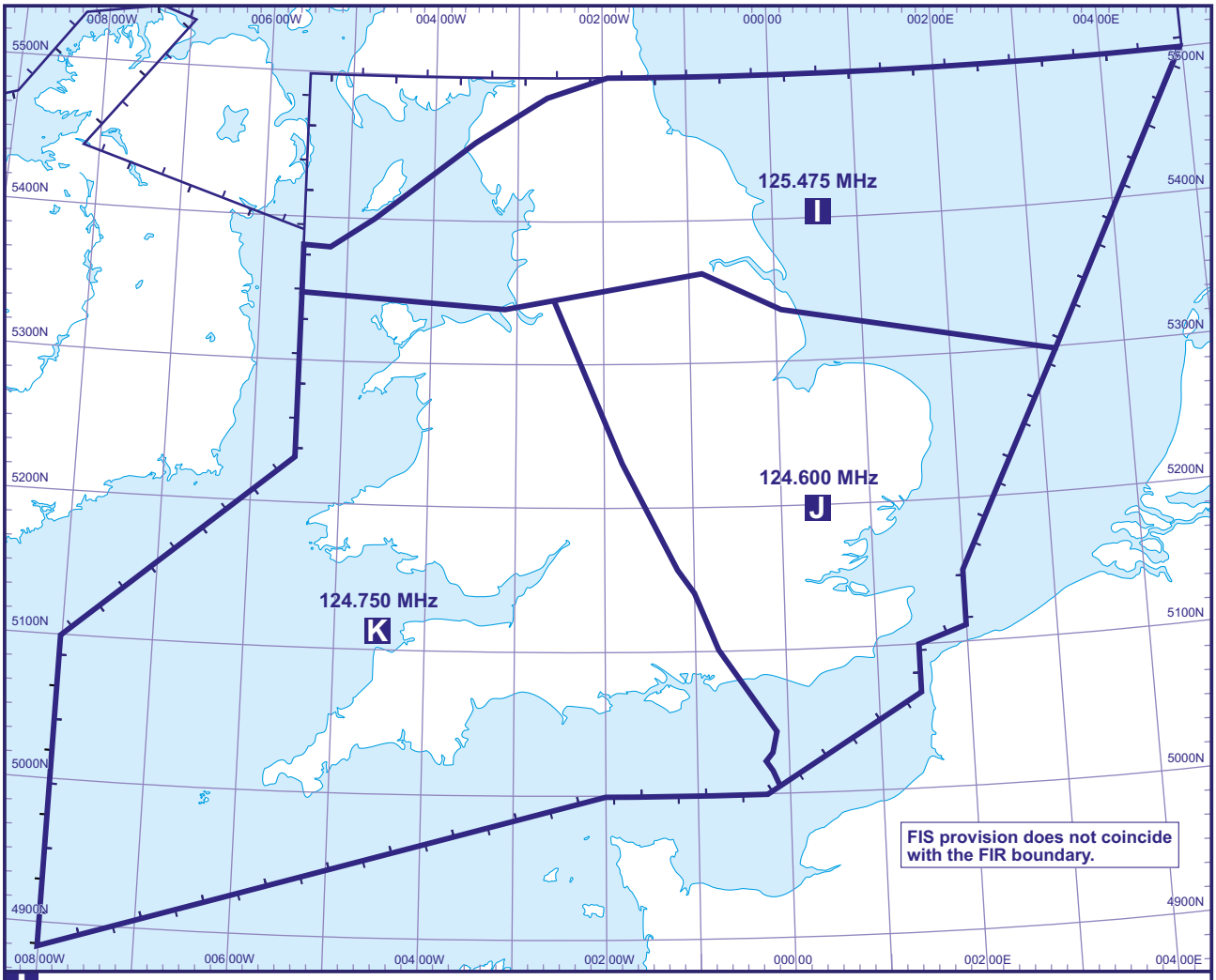
CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 24 SEP 19

ENR 6-31

I

LONDON ACC - FIS SECTORS



I **125.475 (Control/Information Sector) Available H24 SFC - FL195**
550000N 0050000E - 525937N 0031246E - 530802N 0020721E - 532204N 0000431E - 533753N 0005020W - 532719N 0023407W - 532331N 0030804W - 532848N 0053000W - 534817N 0053000W - 534742N 0051111W - 535515N 0045234W - 540000N 0044046W - 541050N 0041741W - 543242N 0033001W - 545127N 0023916W - 550000N 0015500W - 550000N 0050000E.

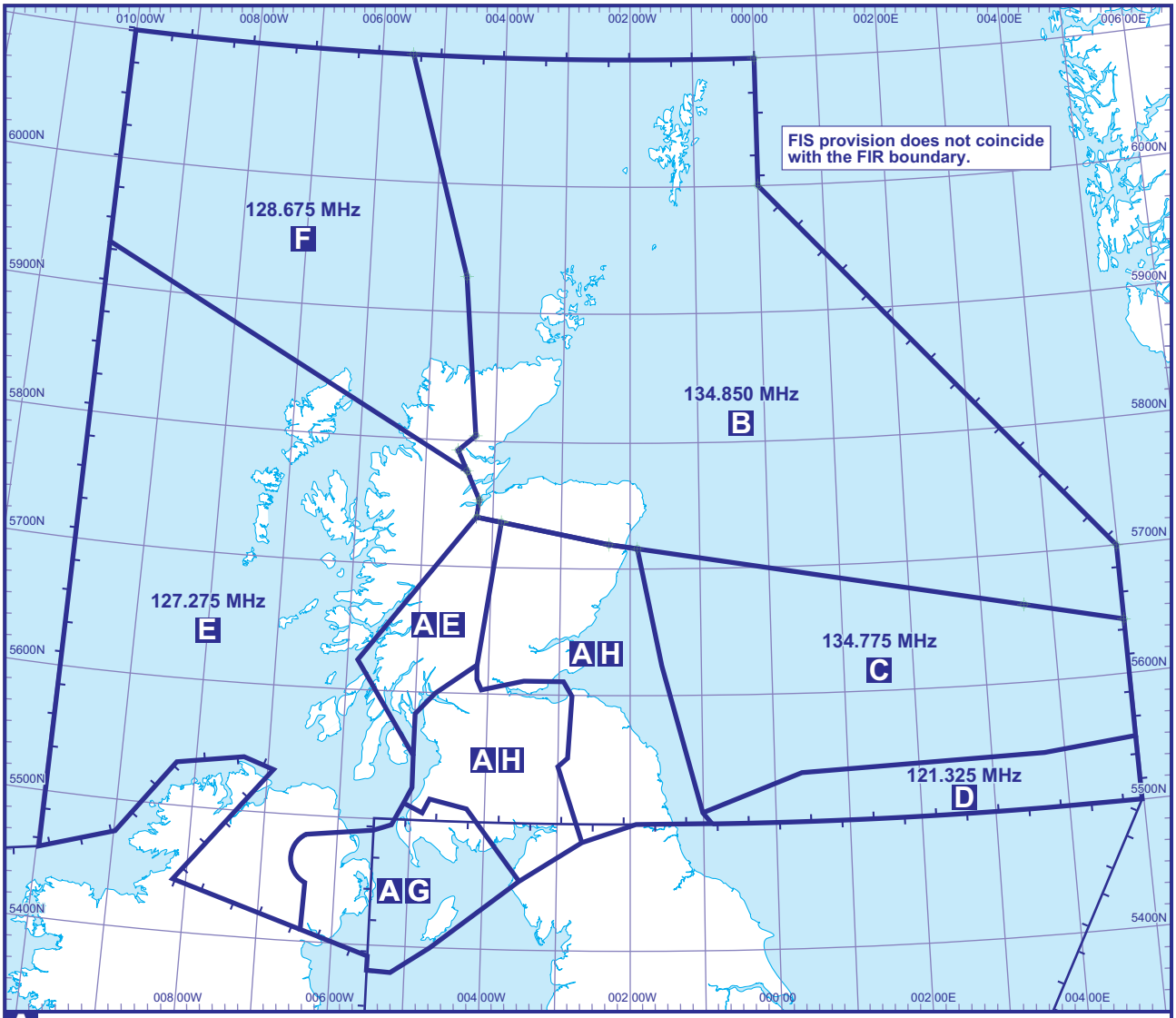
J **124.600 (Control/Information Sector) Available H24 SFC - FL195**
533753N 0005020W - 532204N 0000431E - 530802N 0020721E - 525937N 0031246E - 513000N 0020000E - 510700N 0020000E - 510000N 0012800E - 504000N 0012800E - 500320N 0000639W - 501027N 0001143W - 501347N 0001511W - 501717N 0001053W - 502605N 0000746W - 510053N 0004433W - 512445N 0005947W - 513423N 0011048W - 521920N 0014715W - 532719N 0023407W - 533753N 0005020W.

K **124.750 (Control/Information Sector) Available H24 SFC - FL195**
532848N 0053000W - 532331N 0030804W - 532719N 0023407W - 521920N 0014715W - 513423N 0011048W - 512445N 0005947W - 510053N 0004433W - 502605N 0000746W - 501717N 0001053W - 501347N 0001511W - 501027N 0001143W - 500320N 0000639W - 500000N 0001500W - 500000N 0020000W - 485000N 0080000W - 510000N 0080000W - 522000N 0053000W - 532848N 0053000W .

CHANGE (2/24): ALL AREAS UPDATED.

AERO INFO DATE 13 DEC 23
ENR 6-32

SCOTTISH ACC - FIS SECTORS



A **119.875 (Information Sector) Available 0800-2000 (0700-1900)**
Basic Service available FL55 and below, outside CAS. UKFIS available from Scottish Control/Information above FL55.
572337N 0041404W - 572131N 0035213W - 571145N 0021815W - 570952N 0015347W - 561444N 0013308W - 550516N 0010020W - 550000N 0005252W - 550000N 0015500W - 545127N 0023916W - 543242N 0033001W - 541050N 0041741W - 540000N 0044046W - 535515N 0045234W - 534742N 0051111W - 534817N 0053000W - 535500N 0053000W - 540543N 0062435W - 542755N 0062310W then clockwise arc of circle radius 13NM centred on 543927N 0061256W - 545030N 0062442W - 545418N 0053000W - 545715N 0051530W - 551511N 0050000W - 553023N 0050000W - 561411N 0055028W - 572337N 0041404W.

B **134.850 (Control/Information Sector) Available H24 SFC - FL245**
610000N 0000000E - 600000N 0000000E - 570000N 0050000E - 562502N 0050000E - 570952N 0015347W - 571145N 0021815W - 572131N 0035213W - 572337N 0041404W - 573147N 0041203W - 574511N 0042339W - 575449N 0043204W - 580149N 0041700W - 591638N 0043000W - 610000N 0053000W - 610000N 0000000E.

C **134.775 (Control/Information Sector) Available H24 SFC - FL245**
570952N 0015347W - 562502N 0050000E - 553000N 0050000E - 552536N 0034259E - 552306N 0002228E - 550516N 0010020W - 561444N 0013308W - 570952N 0015347W.

D **121.325 (Control/Information Sector) Available H24 SFC - FL245**
553000N 0050000E - 550000N 0050000E - 550000N 0005252W - 550516N 0010020W - 552306N 0002228E - 552536N 0034259E - 553000N 0050000E.

E **127.275 (Control/Information Sector) Available H24 SFC - FL245**
592000N 0100000W - 581645N 0060617W - 575820N 0050530W - 574511N 0042339W - 573147N 0041203W - 572337N 0041404W - 561411N 0055028W - 553023N 0050000W - 551511N 0050000W - 545715N 0051530W - 545418N 0053000W - 545030N 0062442W - then an anticlockwise arc of circle radius 13NM centered on 543927N 0061256W - 542755N 0062310W - 540543N 0062435W - 542500N 0081000W - 552000N 0065500W - 552500N 0072000W - 552000N 0081500W - 544500N 0090000W - 543400N 0100000W - 592000N 0100000W.
Available H24 Above FL55 - FL245
572337N 0041404W - 572131N 0035213W - 561400N 0040926W - 560000N 0044400W - 555000N 0050000W - 553023N 0050000W - 561411N 0055028W - 572337N 0041404W.
Available 2000-0800 (1900-0700) SFC - FL55
572337N 0041404W - 572131N 0035213W - 561400N 0040926W - 560000N 0044400W - 555000N 0050000W - 553023N 0050000W - 561411N 0055028W - 572337N 0041404W.

F **128.675 (Control/Information Sector) Available H24 SFC - FL245**
610000N 0100000W - 610000N 0053000W - 591638N 0043000W - 580149N 0041700W - 575449N 0043204W - 574511N 0042339W - 575820N 0050530W - 581645N 0060617W - 592000N 0100000W - 610000N 0100000W

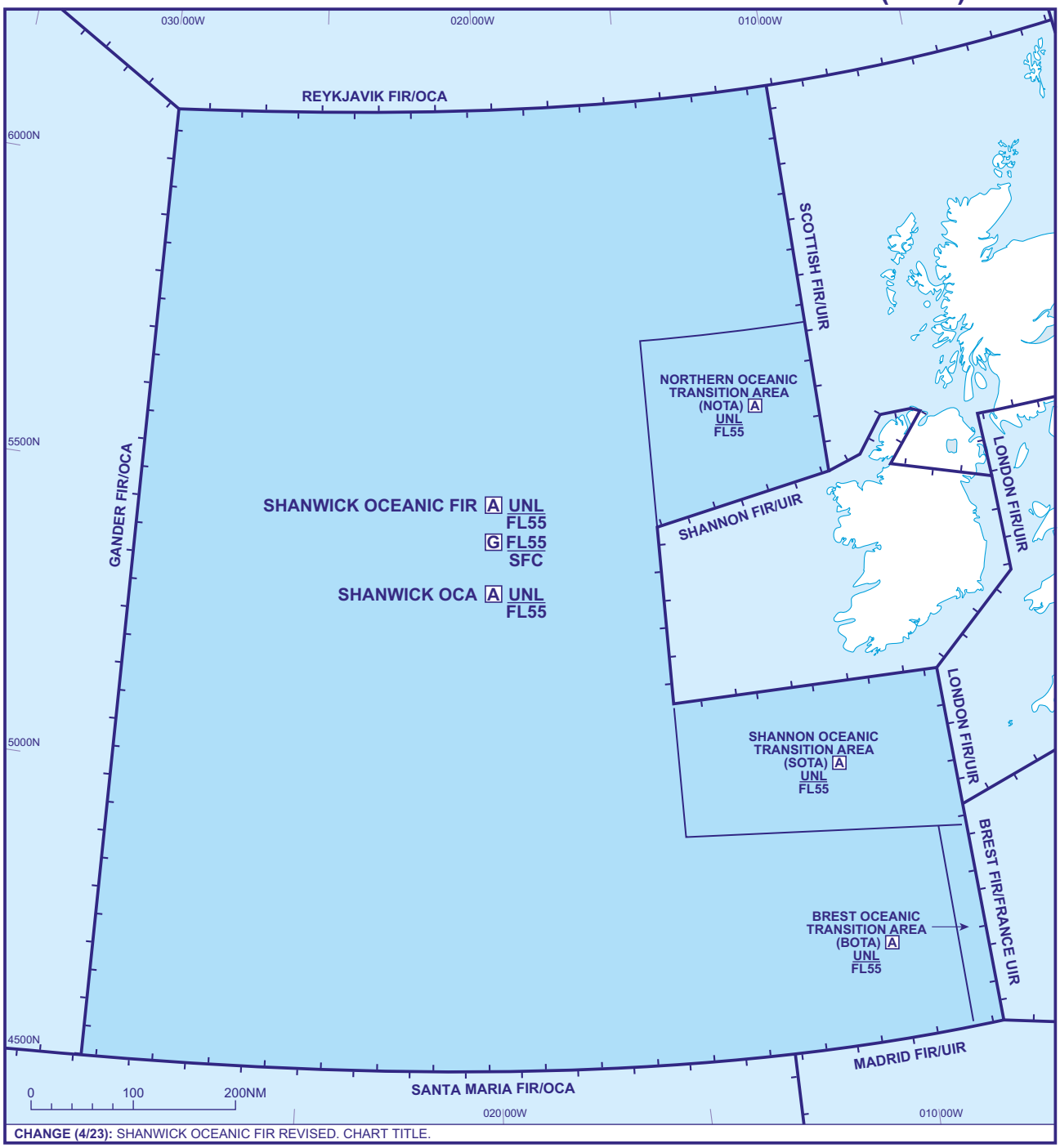
G **123.775 (Control/Information Sector) Available H24 FL55 - FL245 and 2000-0800 (1900-0700) SFC - FL55**
551001N 0044459W - 550603N 0041419W - 543242N 0033001W - 541050N 0041741W - 540000N 0044046W - 535515N 0045234W - 534742N 0051111W - 534817N 0053000W - 535500N 0053000W - 540543N 0062435W - 542755N 0062310W - then clockwise arc of circle radius 13NM centered on 543927N 0061256W - 545030N 0062442W - 545418N 0053000W - 545715N 0051530W - 550750N 0050623W - 550328N 0045044W - 551001N 0044459W.

H **124.500 (Control/Information Sector) Available H24 FL55 - FL245**
572131N 0035213W - 571145N 0021815W - 570952N 0015347W - 561444N 0013308W - 550516N 0010020W - 550000N 0005252W - 550000N 0015500W - 545127N 0023916W - 552700N 0030000W - 553100N 0025156W - 560008N 0024849W - 560700N 0025608W - 560700N 0032938W - 560222N 0040518W - 560700N 0040910W - 561400N 0040926W - 572131N 0035213W
Available 2000-0800 (1900-0700) SFC - FL55 If contact cannot be established on 124.500 then contact 119.875 which is monitored H24
572131N 0035213W - 571145N 0021815W - 570952N 0015347W - 561444N 0013308W - 550516N 0010020W - 550000N 0005252W - 550000N 0015500W - 545127N 0023916W - 543242N 0033001W - 550603N 0041419W - 551001N 0044459W - 550328N 0045044W - 550750N 0050623W - 551511N 0050000W - 555000N 0050000W - 560000N 0044400W - 561400N 0040926W - 572131N 0035213W

CHANGE (2/24): ALL AREAS UPDATED.

AERO INFO DATE 13 DEC 23

SHANWICK OCEANIC FIR/OCEANIC CONTROL AREA (OCA)

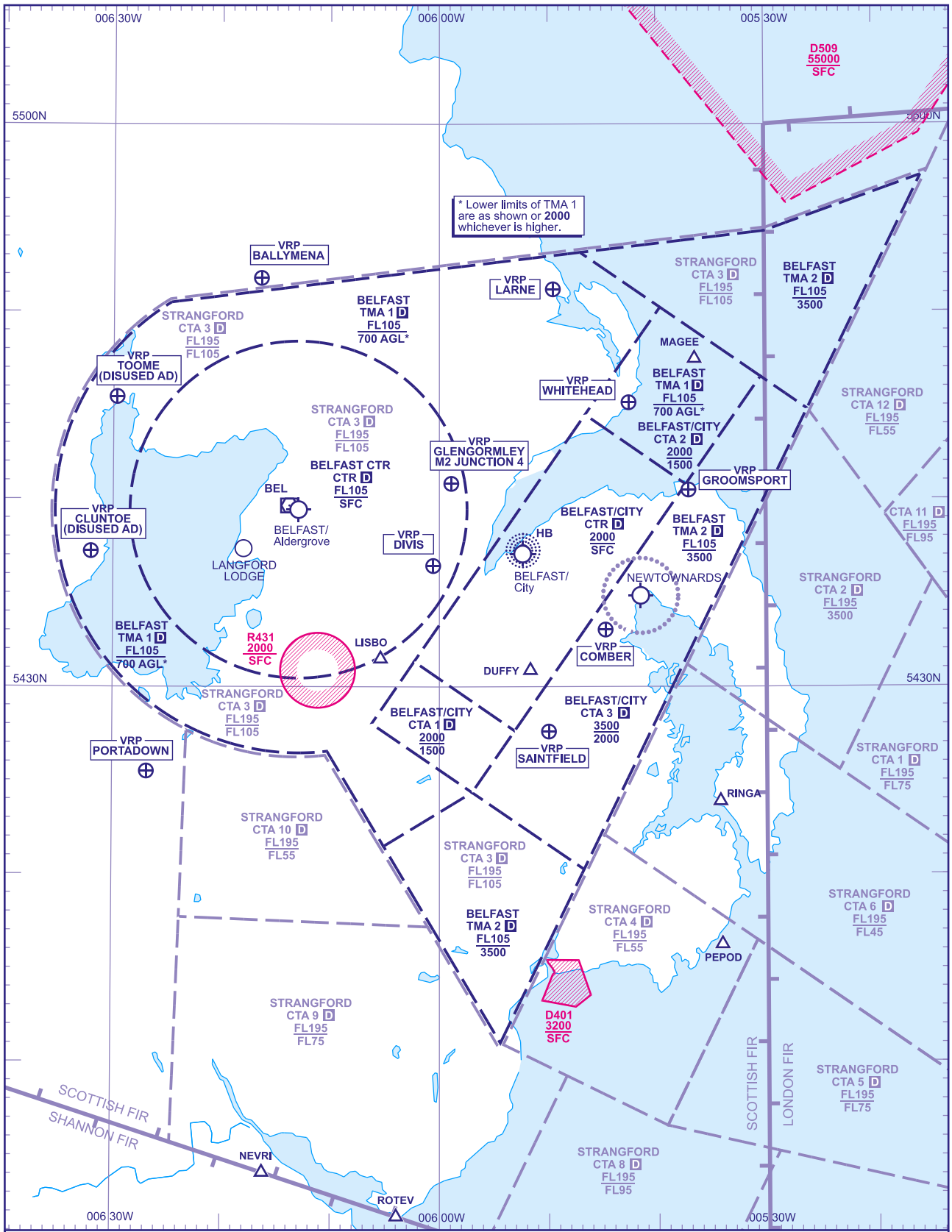


CHANGE (4/23): SHANWICK OCEANIC FIR REVISED. CHART TITLE.

AERO INFO DATE 25 JAN 23

ENR 6-34

BELFAST TMA, BELFAST CTR & BELFAST/CITY CTR/CTA



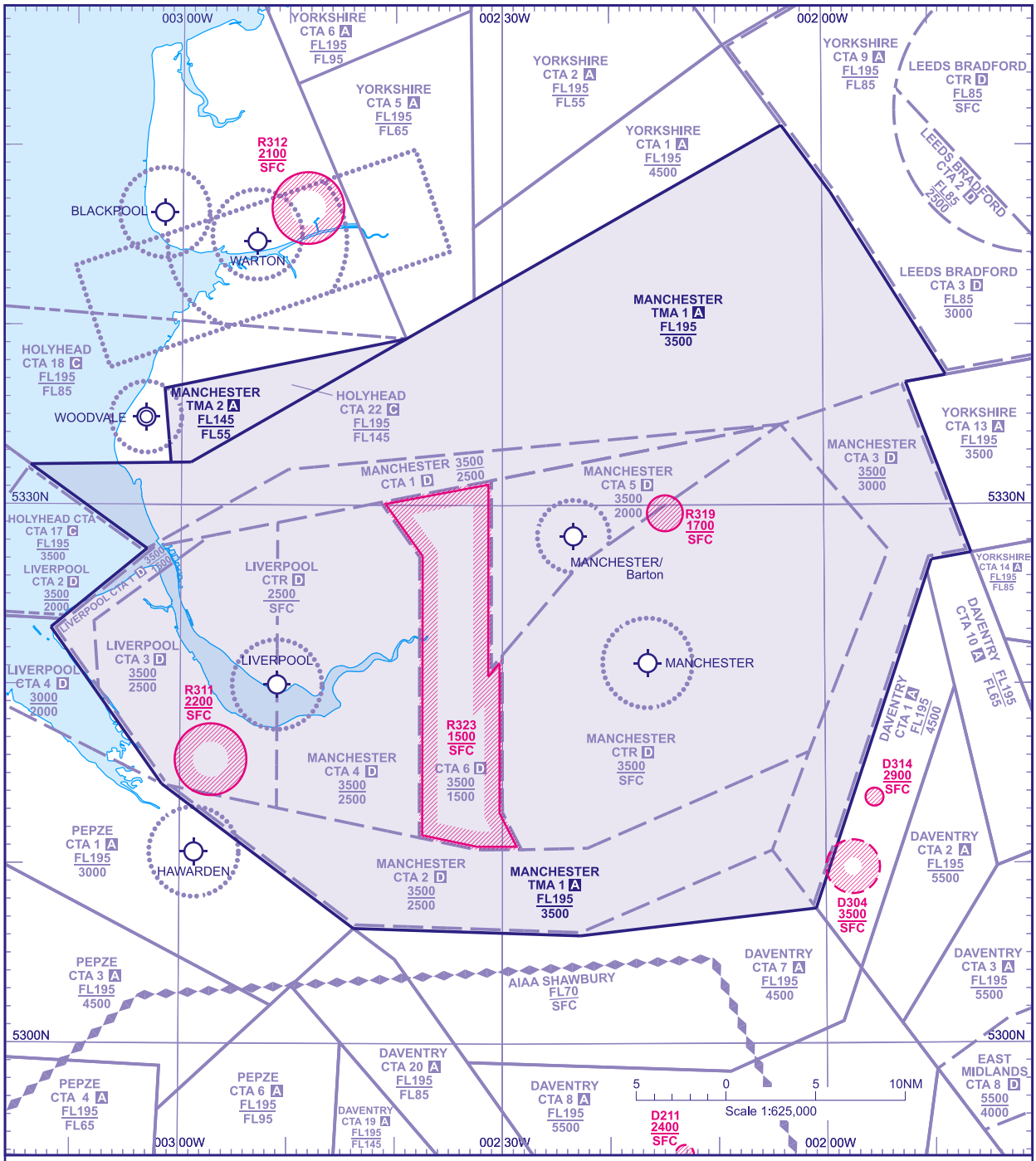
ATS AIRSPACE VERTICAL LIMITS Controlled airspace with an upper vertical limit of **FL195** and above is not shown
LATERAL LIMITS Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organised at the aerodrome see AD 2.17.

CHANGE (6/25): STRANGFORD CTA 3 LATERAL LIMITS REVISED.

AERO INFO DATE 02 APR 25

ENR 6-35

MANCHESTER TMA



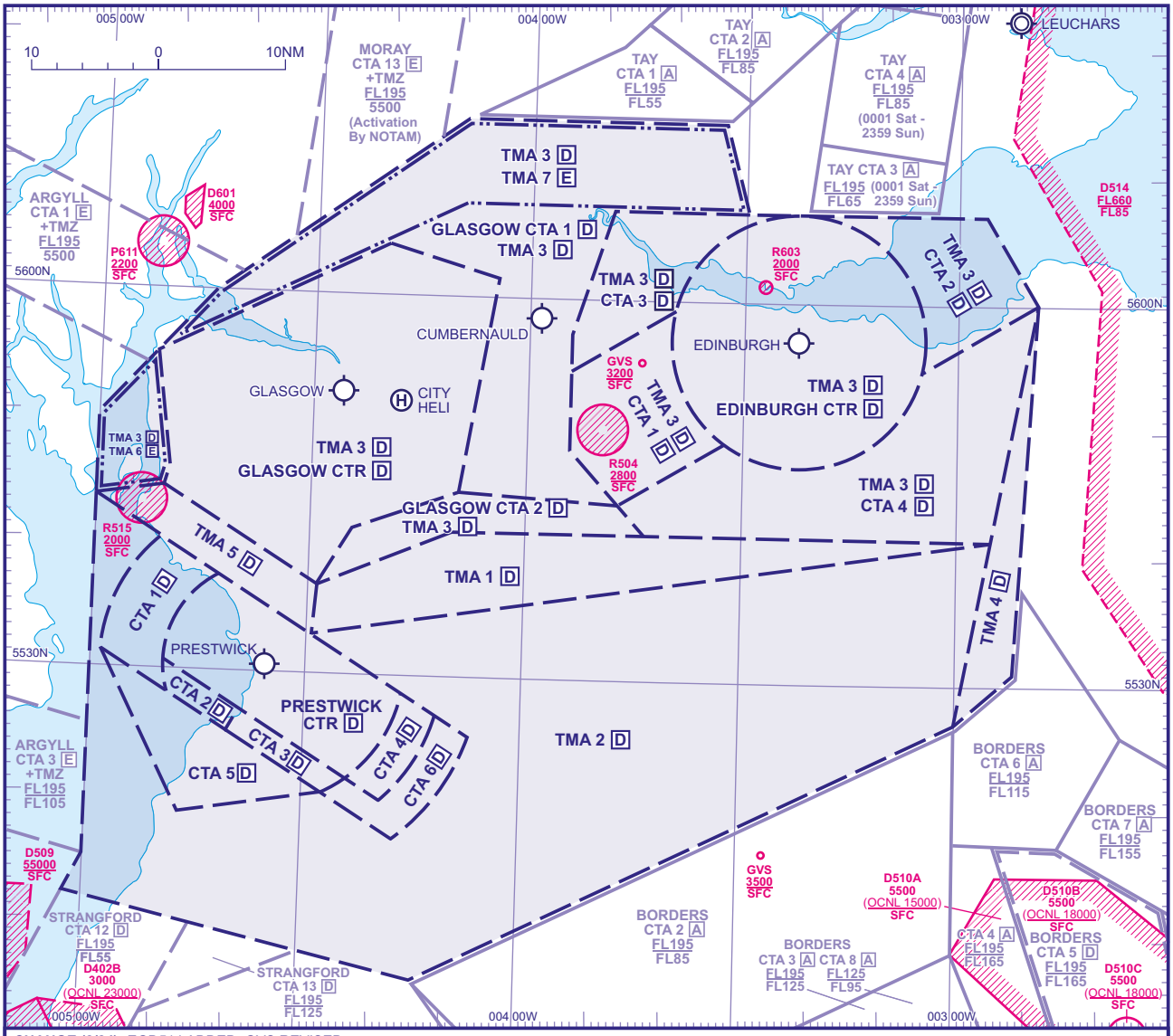
ATS AIRSPACE VERTICAL LIMITS Controlled airspace with an upper vertical limit of **FL195** and above is not shown.
LATERAL LIMITS Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

CHANGE (2/25): R323 ADDED. MANCHESTER CTR & CTA 6 ADDED.

AERO INFO DATE 06 DEC 24

ENR 6-36

SCOTTISH TMA



CHANGE (2/24): EGD514 ADDED. GVS REVISED.

AERO INFO DATE 06 DEC 23

ENR 6-37

ATS AIRSPACE VERTICAL LIMITS Controlled airspace with an upper vertical limit of FL195 and above is not shown.

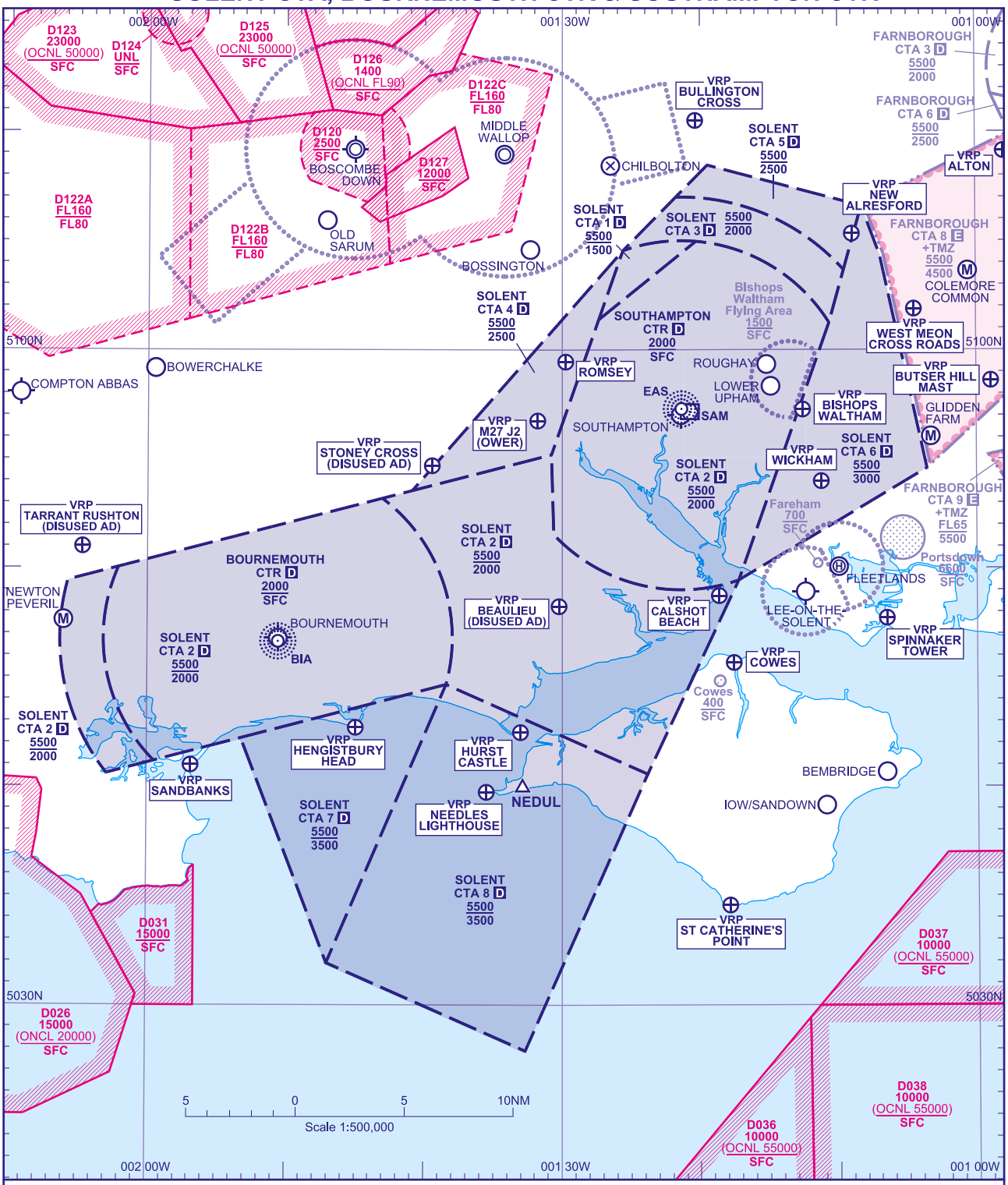
SCOTTISH			EDINBURGH			PRESTWICK			GLASGOW		
TMA-1	D	FL195 / 4500	CTR	D	6000 / SFC	CTR	D	5500 / SFC	CTR	D	6000 / SFC
TMA-2	D	FL195 / 5500	CTA-1	D	6000 / 2500	CTA-1	D	5500 / 1500	CTA-1	D	6000 / 3000
TMA-3	D	FL195 / 6000	CTA-2	D	6000 / 2500	CTA-2	D	5500 / 2000	CTA-2	D	6000 / 3500
TMA-4	D	FL195 / 5500	CTA-3	D	6000 / 3500	CTA-3	D	5500 / 3000			
TMA-5	D	FL195 / 3500	CTA-4	D	6000 / 3500	CTA-4	D	5500 / 3000			
TMA-6	E	6000 / 3000				CTA-5	D	5500 / 3500			
TMA-7	E	6000 / 4000				CTA-6	D	5500 / 4000			

LATERAL LIMITS

Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

AIRWAYS Class A/D/E except within TMA.

SOLENT CTA, BOURNEMOUTH CTR & SOUTHAMPTON CTR



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with a base in excess of **5500**ALT is not shown.

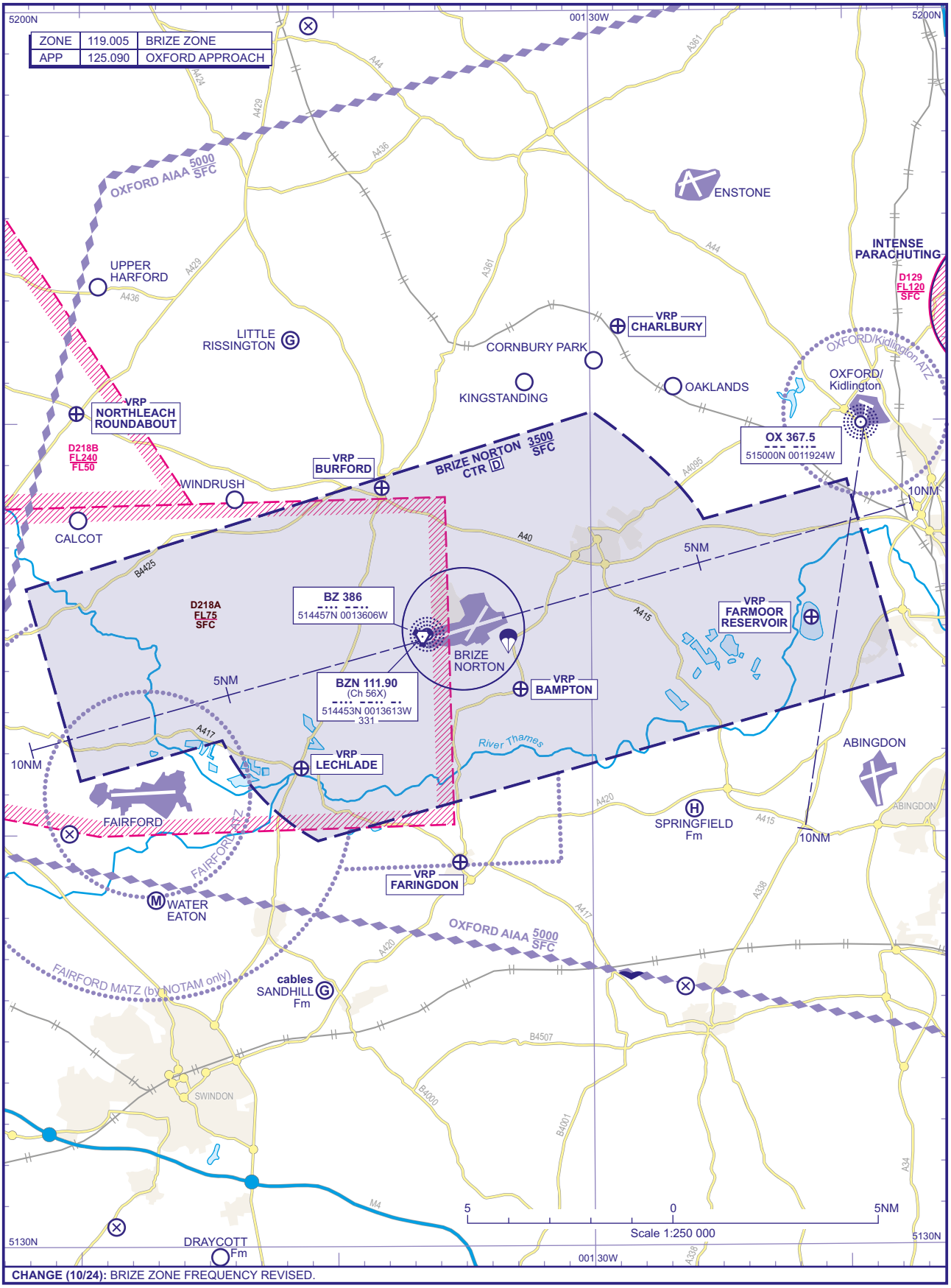
LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
Detailed description of air traffic services airspace organised at the aerodrome see AD 2.17.

For hours of operation see ENR 2.1.

CHANGE: (3/23): VRPs UPDATED.

AERO INFO DATE 10 JAN 23

BRIZE NORTON CONTROL ZONE

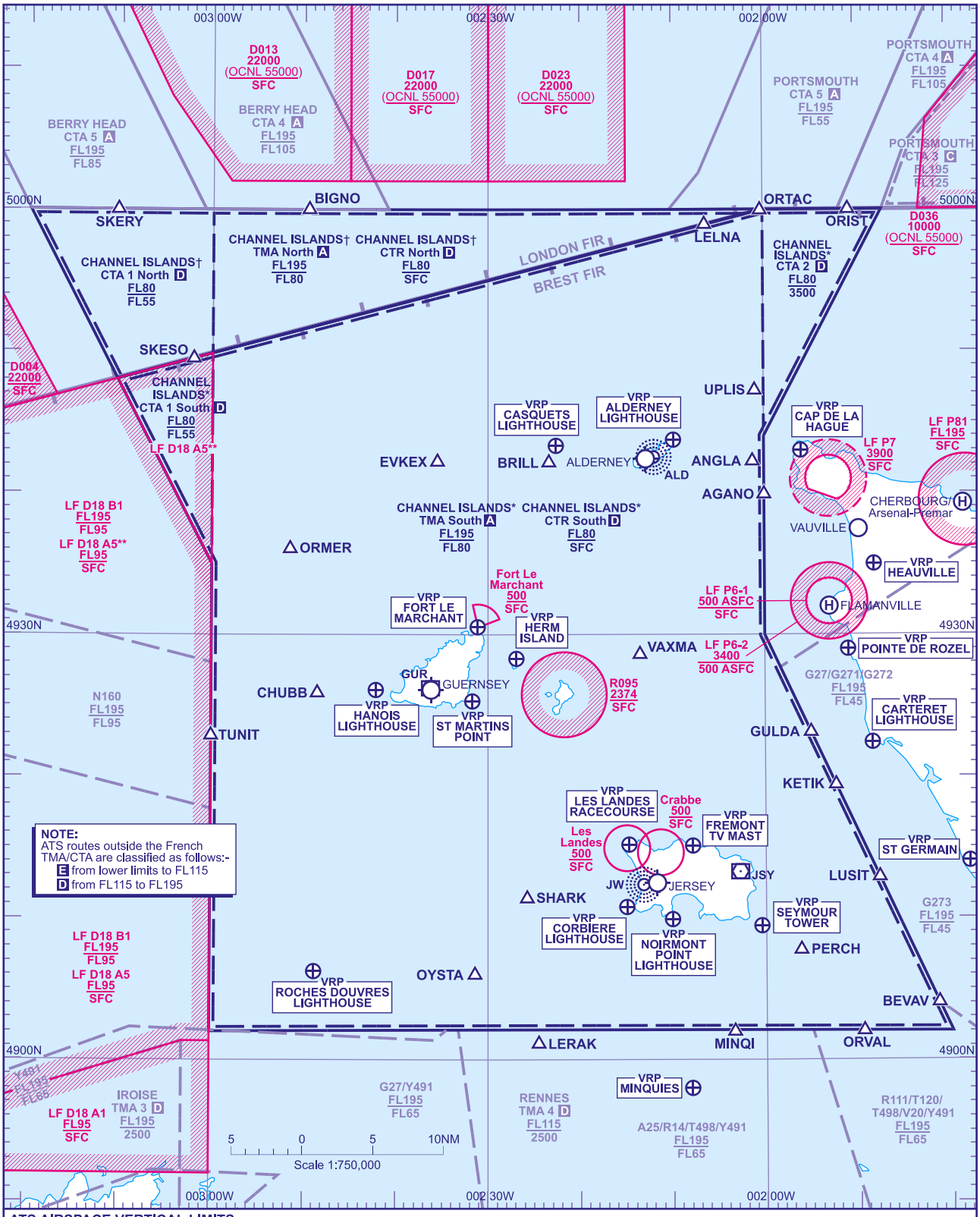


CHANGE (10/24): BRIZE ZONE FREQUENCY REVISED.

AERO INFO DATE 09 JUL 24

ENR 6-39

CHANNEL ISLANDS CONTROL ZONE - ATS SIGNIFICANT POINTS AND VRPs



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

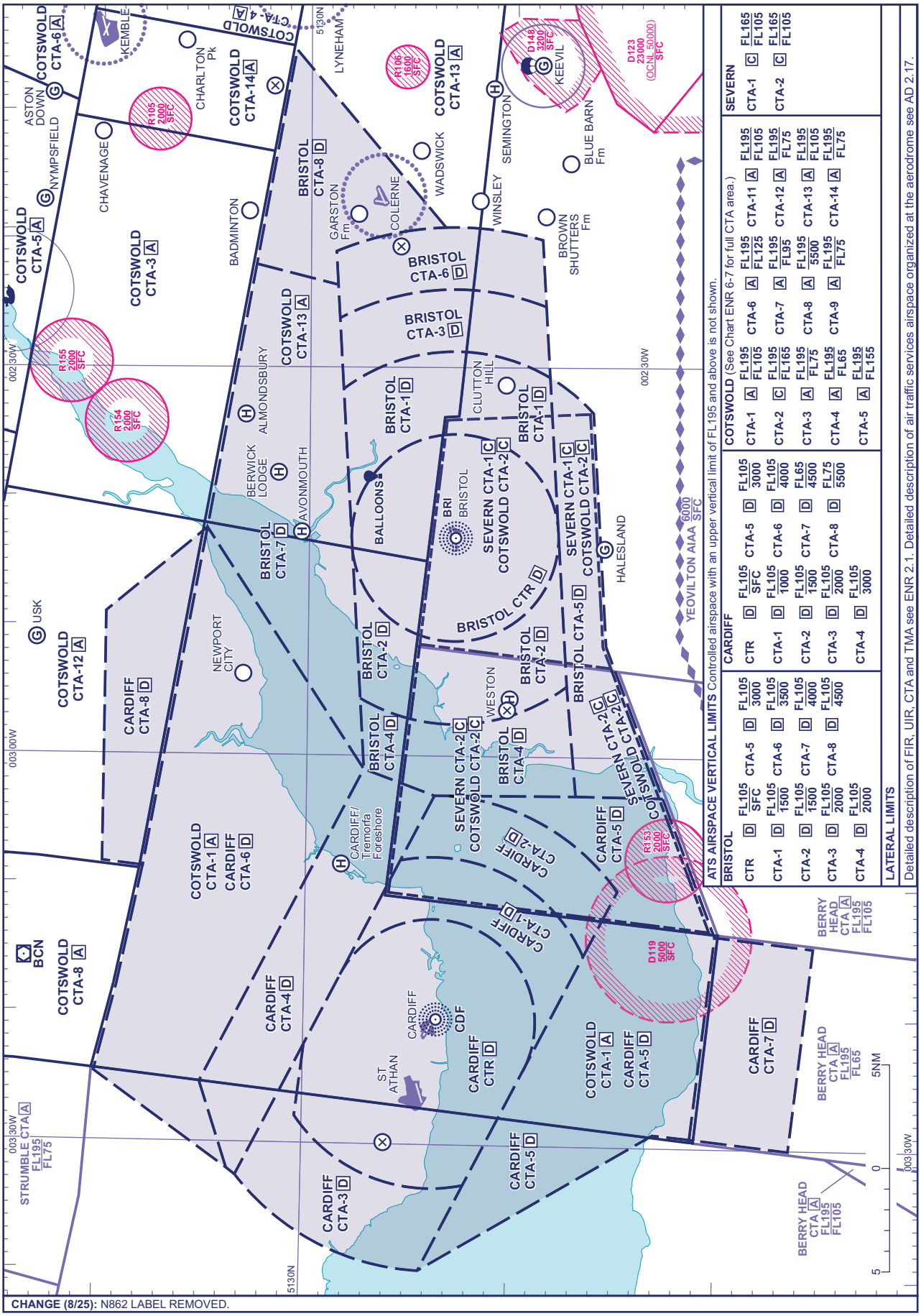
GENERAL INFORMATION
* Outside Jersey notified hours and within Brest FIR. The airspace adopts the classification appropriate to Airway or uncontrolled airspace designation, as appropriate, as detailed in the France AIP.
† Outside Jersey notified hours and within London FIR, CTR, CTA-1 and TMA revert to Class G.
** **LF D18 A5** SFC-FL95, except for within CHANNEL ISLANDS CTA-1 South and TMA South when active.

CHANGE (9/25): WAYPOINT PIKEY REPLACED WITH VAXMA.

AERO INFO DATE 05 JUN 25

ENR 6-40

BRISTOL/CARDIFF/COTSWOLD/SEVERN CONTROL ZONES AND CONTROL AREAS

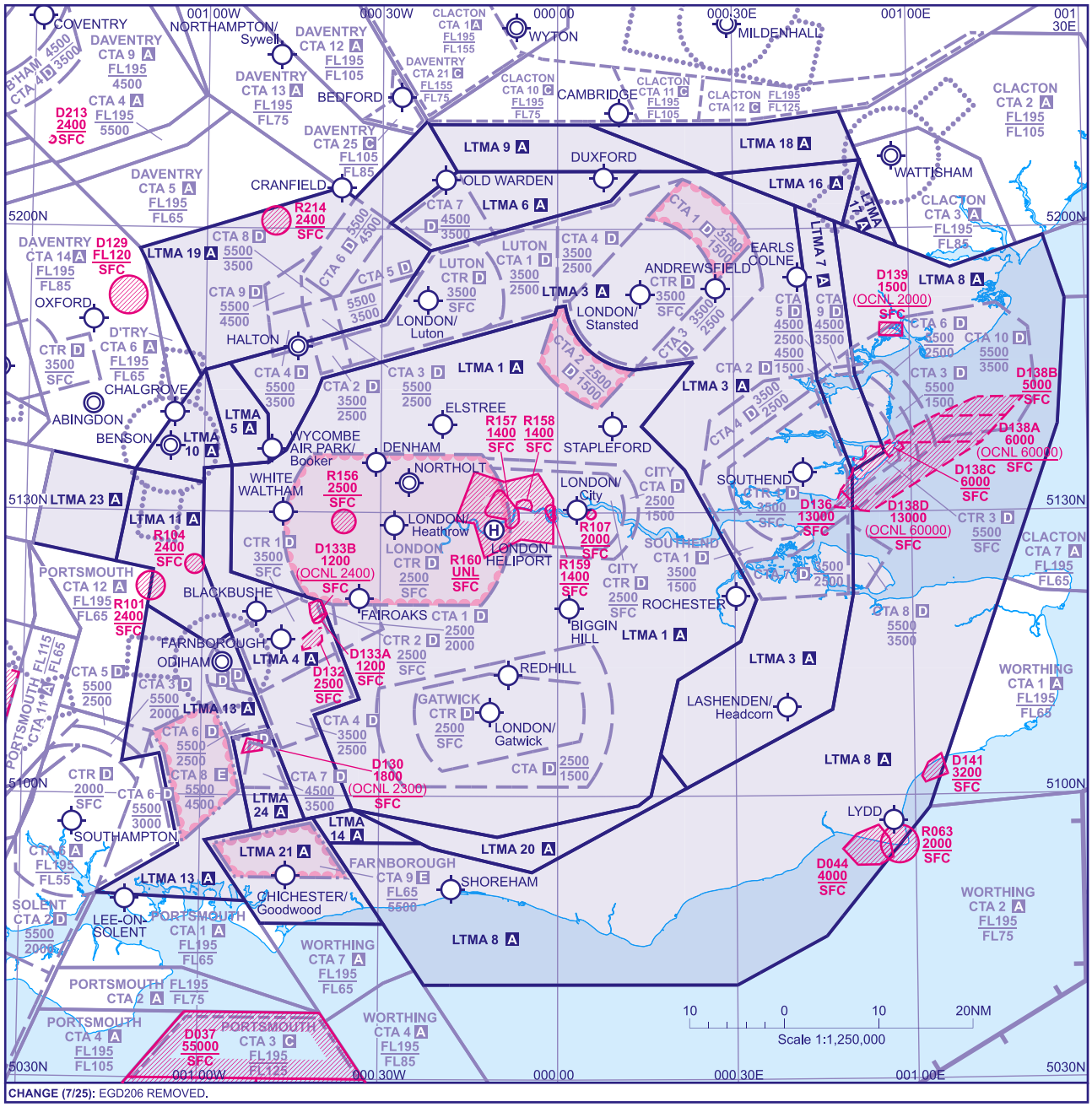


CHANGE (8/25): N862 LABEL REMOVED.

AERO INFO DATE 07 MAY 25

ENR 6-41

LONDON TMA



CHANGE (7/25): EGD206 REMOVED.

ATS AIRSPACE VERTICAL LIMITS Controlled airspace with an upper vertical limit of FL195 and above is not shown

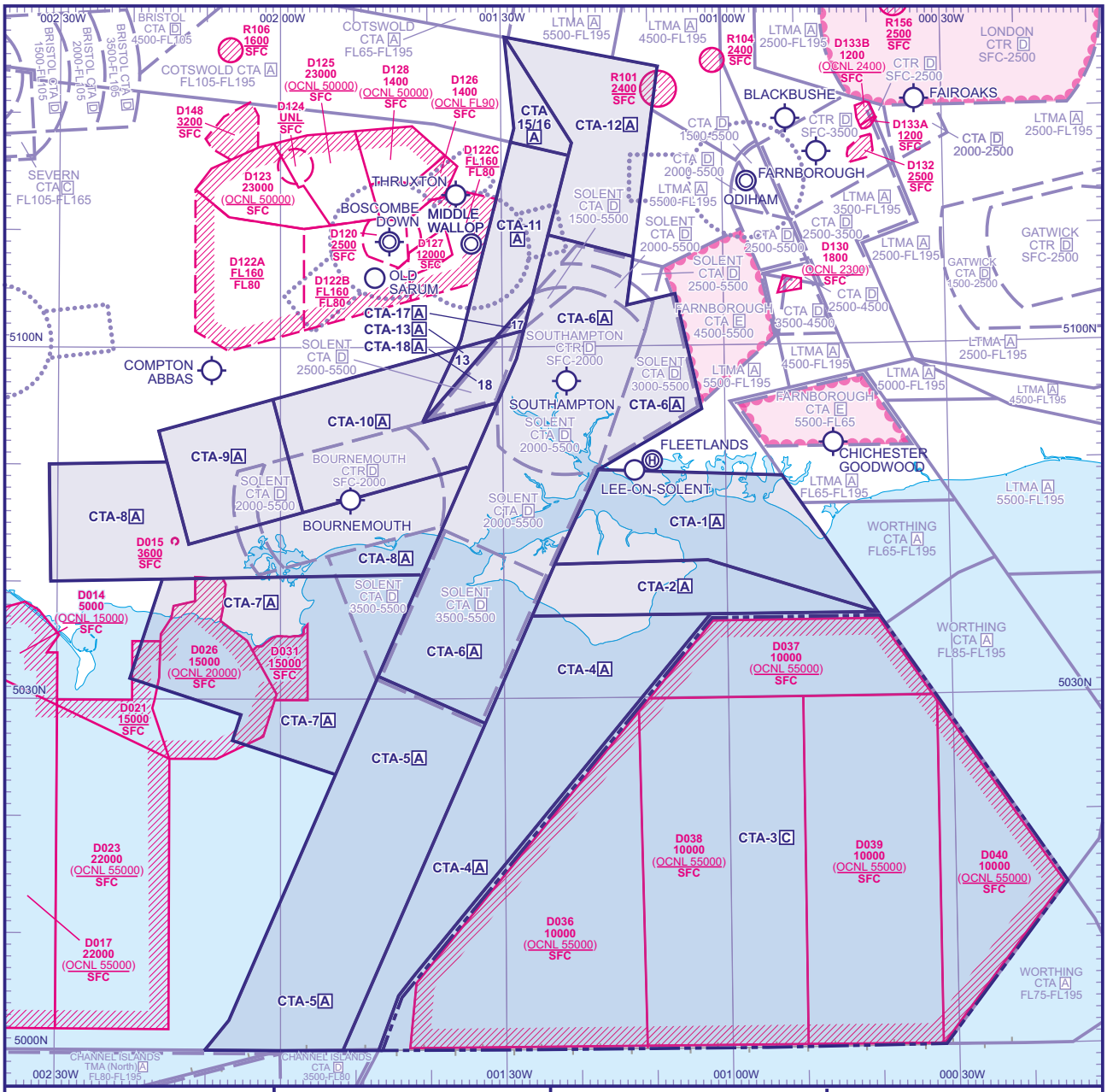
LONDON			LONDON			LONDON			LONDON			LONDON		
TMA 1	A	FL195 / 2500	TMA 6	A	FL195 / 4500	TMA 11	A	FL195 / 4500	TMA 16	A	FL195 / 5500	TMA 21	A	FL195 / FL65
TMA 3	A	FL195 / 3500	TMA 7	A	FL195 / 4500	TMA 13	A	FL195 / 5500	TMA 17	A	FL195 / FL75	TMA 23	A	FL195 / 5500
TMA 4	A	FL195 / 3500	TMA 8	A	FL195 / 5500	TMA 14	A	FL195 / 5000	TMA 18	A	FL195 / FL75	TMA 24	A	FL195 / 4500
TMA 5	A	FL195 / 4500	TMA 9	A	FL195 / 5500				TMA 19	A	FL195 / 5500			
			TMA 10	A	FL195 / 5500				TMA 20	A	FL195 / 4500			

LATERAL LIMITS

See London TMA ENR 2.1

AERO INFO DATE 16 APR 25

PORTSMOUTH CTA



PORTSMOUTH

CTA-1	A	FL195 / FL65	CTA-6	A	FL195 / FL55	CTA-11	A	FL115 / FL65	CTA-17	A	FL115 / FL55
CTA-2	A	FL195 / FL75	CTA-7	A	FL195 / FL165	CTA-12	A	FL195 / FL65	CTA-18	A	FL95 / FL55
CTA-3	C	FL195 / FL125	CTA-8	A	FL195 / FL155	CTA-13	A	FL95 / FL65			
CTA-4	A	FL195 / FL105	CTA-9	A	FL195 / FL135	CTA-15	A	FL105 / FL65			
CTA-5	A	FL195 / FL55	CTA-10	A	FL195 / FL95	CTA-16	A	FL195 / FL105			

LATERAL LIMITS

See Portsmouth CTA ENR 2.1

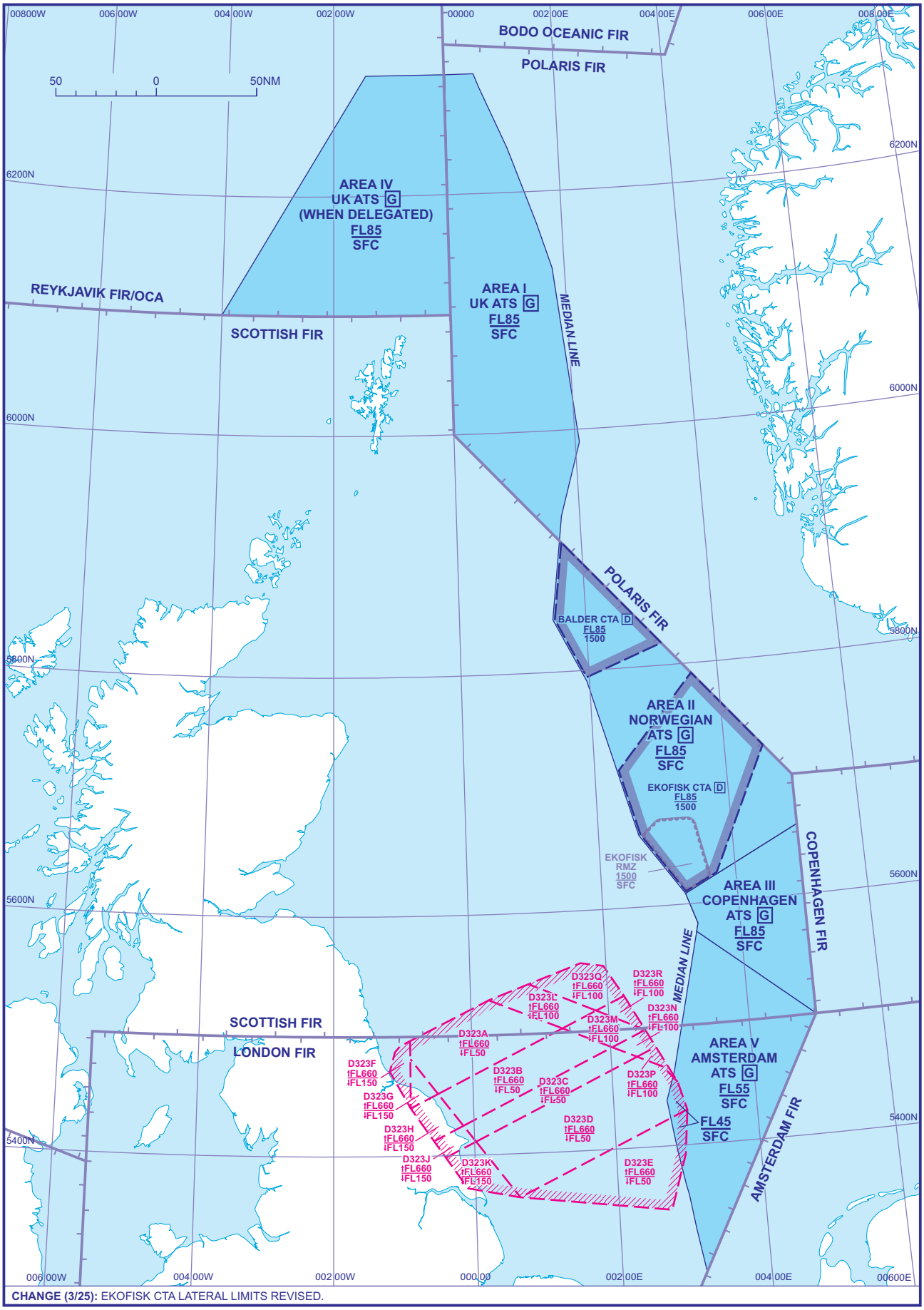
NOTES

1. **CTA 6**:
   During the notified hours of operation of Solent CTA the base changes to 5500ft ALT
2. **CTA 11, CTA 13, CTA 15**:
   Open daily 0630-0930 and 1730-2130 (Winter), 0445-0830 and 1630-2030 (Summer).
3. **CTA 17, CTA 18**:
   Open daily 0630-0930 and 1730-2130 (Winter), 0445-0830 and 1630-2030 (Summer).
   During the notified hours of operation of Solent CTA the base changes to 5500ft ALT.

CHANGE (6/23): D148 KEEVIL ADDED.

AERO INFO DATE 21 MAR 23

DELEGATION OF ATS RESPONSIBILITIES - WITHIN NORTH ATLANTIC AND NORTH SEA LOWER AIRSPACE

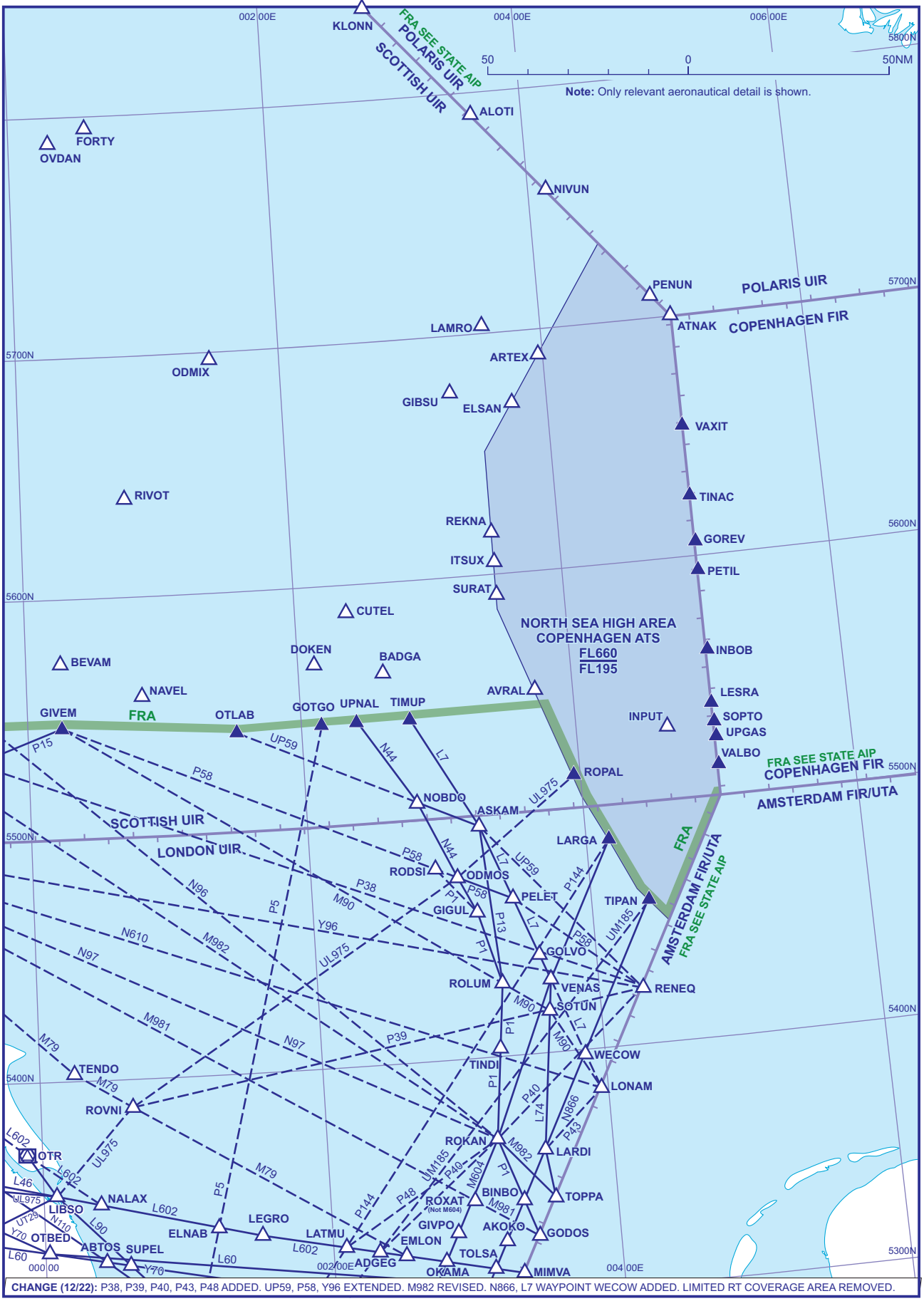


CHANGE (3/25): EKOFISK CTA LATERAL LIMITS REVISED.

AERO INFO DATE 20 DEC 24

ENR 6-44

DELEGATION OF ATS RESPONSIBILITIES - WITHIN NORTH SEA UPPER AIRSPACE

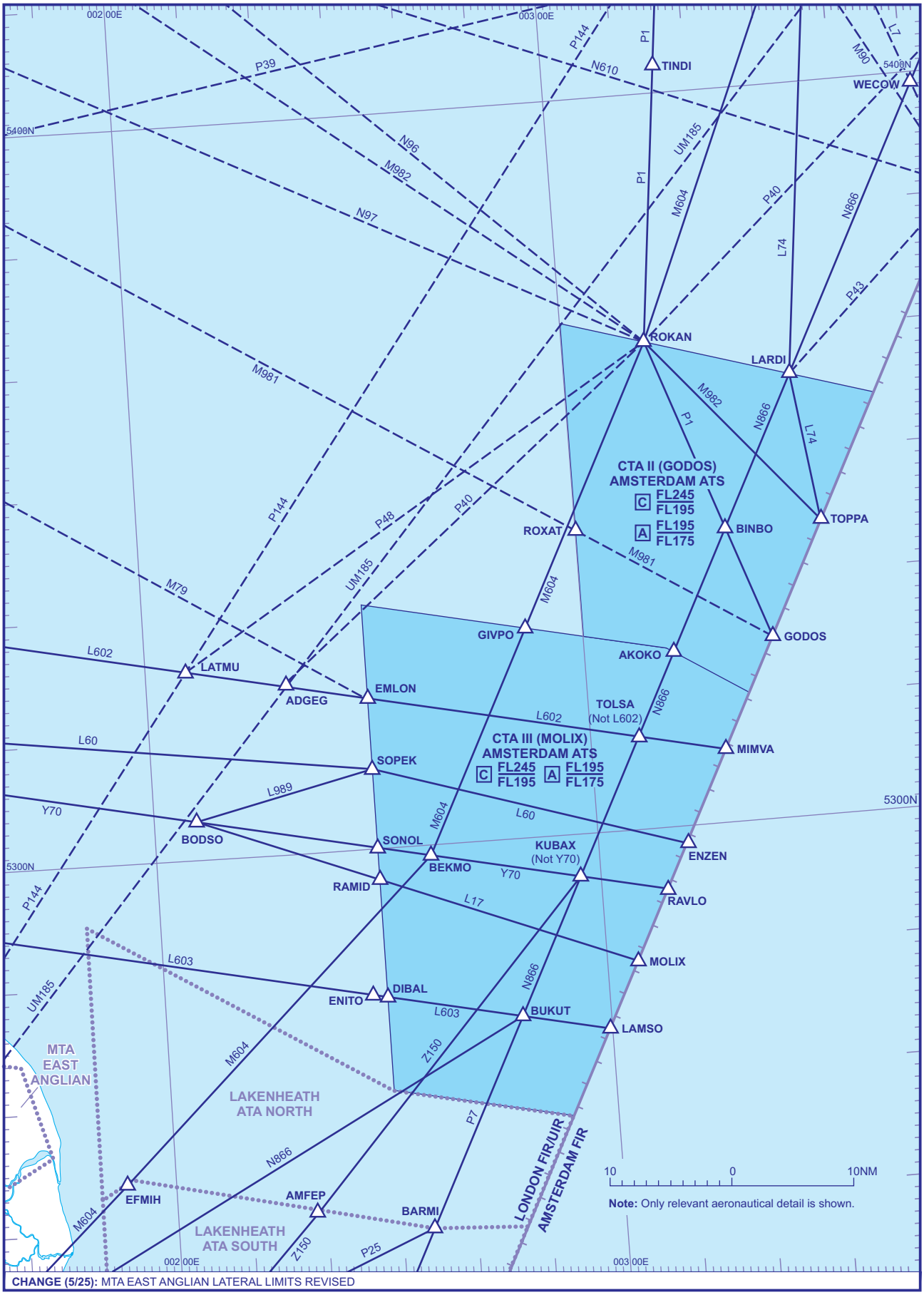


CHANGE (12/22): P38, P39, P40, P43, P48 ADDED. UP59, P58, Y96 EXTENDED. M982 REVISED. N866, L7 WAYPOINT WECOW ADDED. LIMITED RT COVERAGE AREA REMOVED.

AERO INFO DATE 27 SEP 22

ENR 6-45

DELEGATION OF ATS RESPONSIBILITIES - WITHIN SOUTHERN NORTH SEA

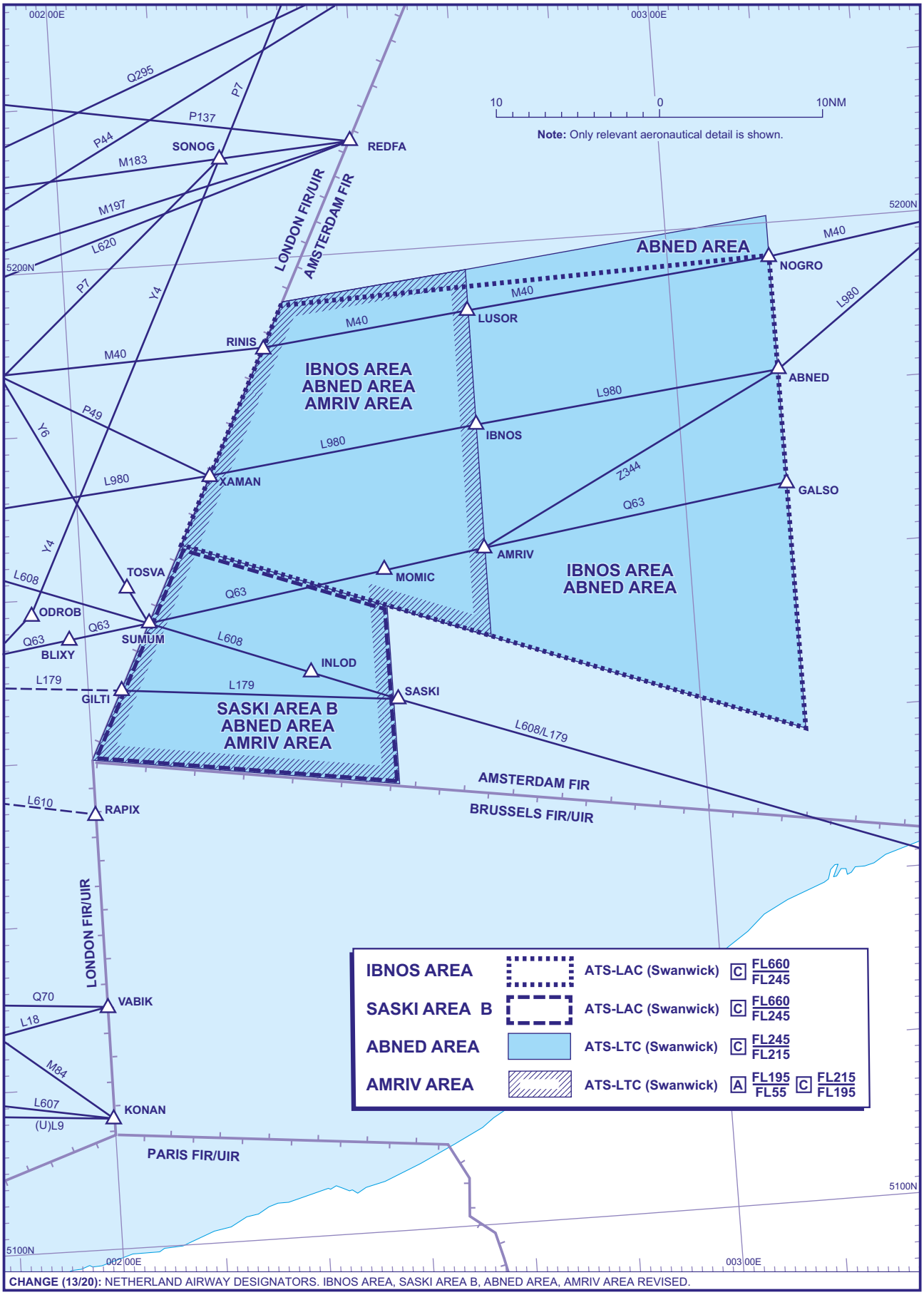


CHANGE (5/25): MTA EAST ANGLIAN LATERAL LIMITS REVISED

AERO INFO DATE 06 MAR 25

ENR 6-46

DELEGATION OF ATS RESPONSIBILITIES - WITHIN AREAS OF AMSTERDAM FIR

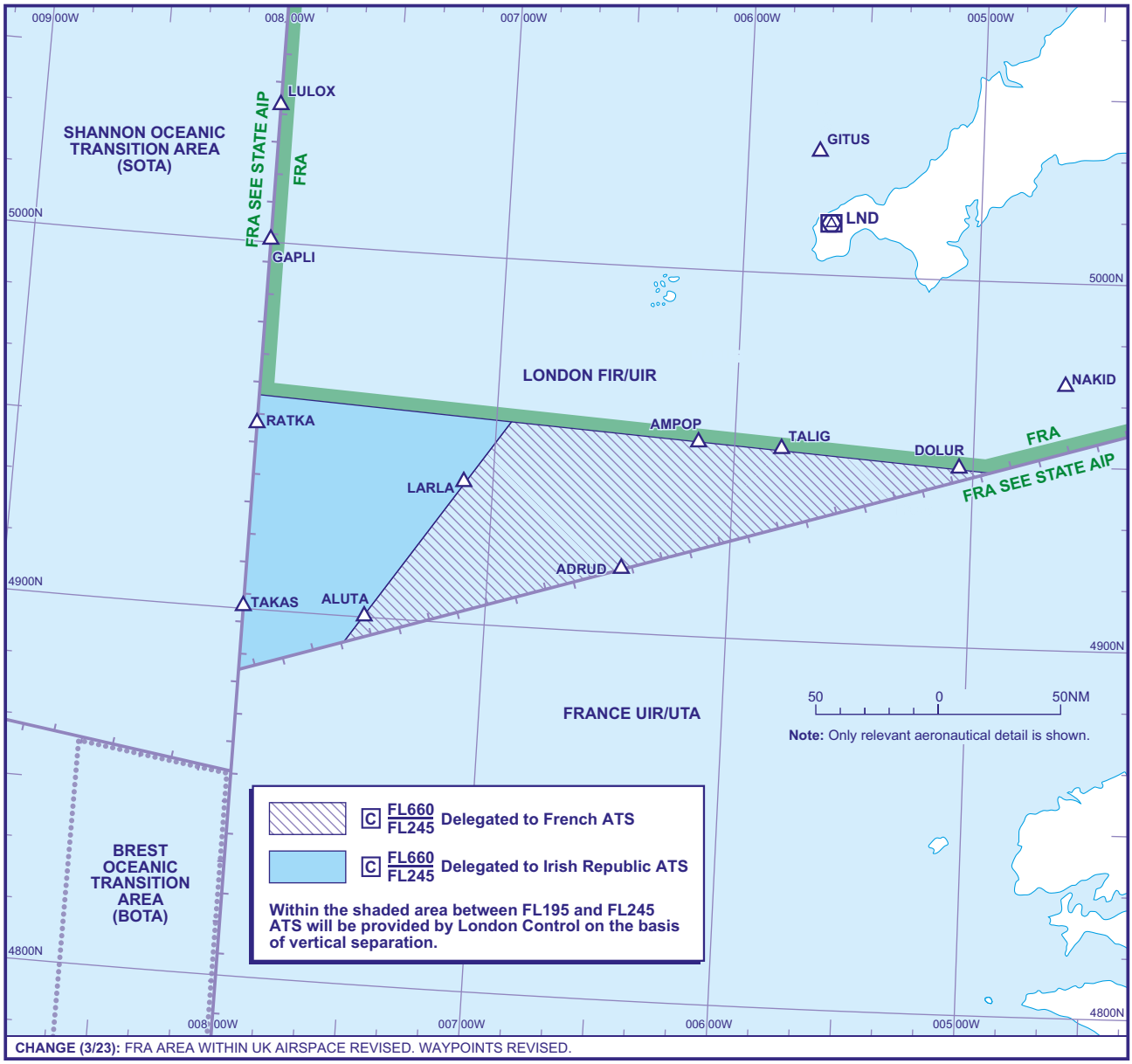


CHANGE (13/20): NETHERLAND AIRWAY DESIGNATORS. IBNOS AREA, SASKI AREA B, ABNED AREA, AMRIV AREA REVISED.

AERO INFO DATE 24 SEP 20

ENR 6-47

DELEGATION OF ATS RESPONSIBILITIES - WITHIN THE SOUTHWESTERN CORNER OF THE LONDON UIR

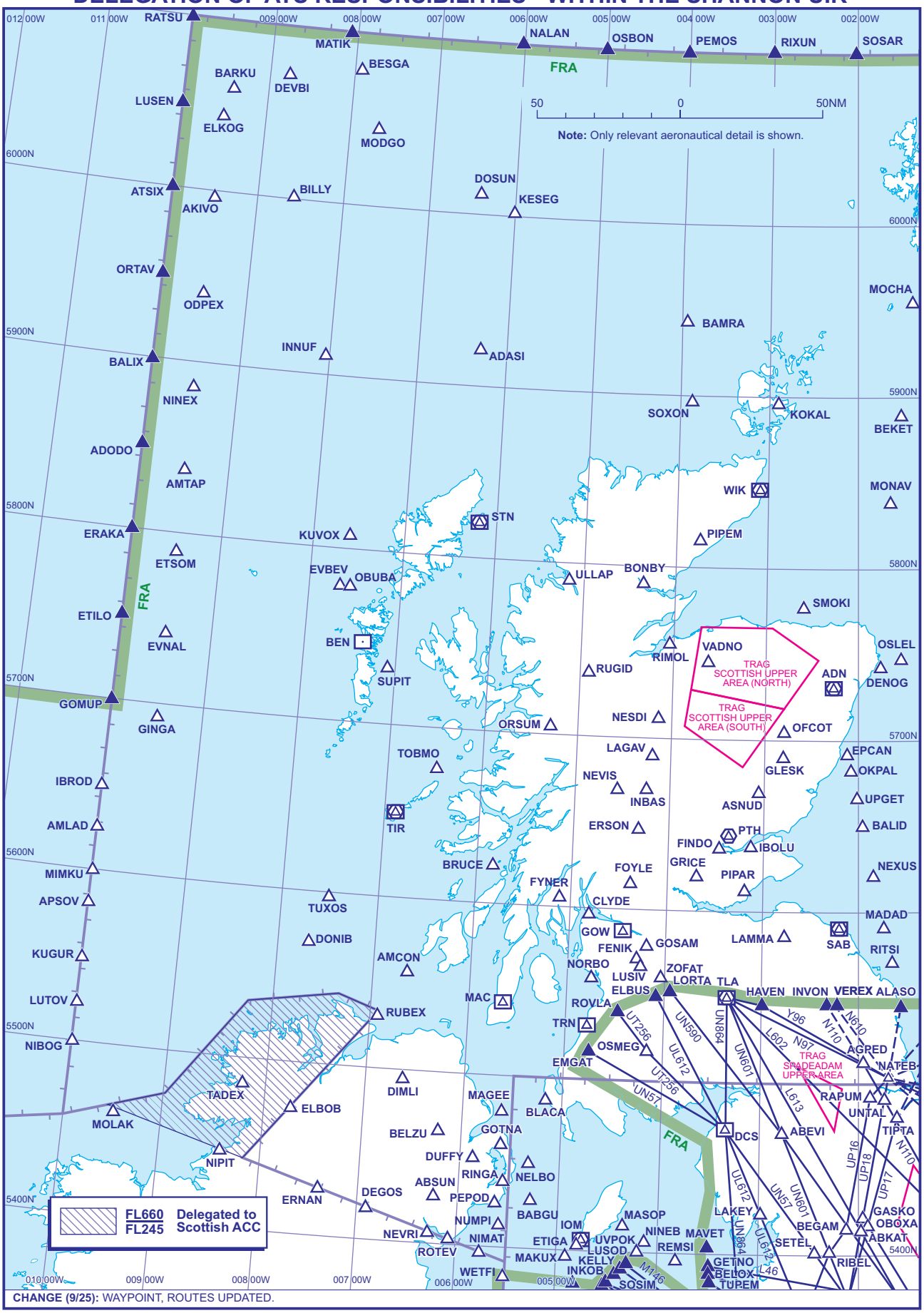


CHANGE (3/23): FRA AREA WITHIN UK AIRSPACE REVISED. WAYPOINTS REVISED.

AERO INFO DATE 16 JAN 22

ENR 6-48

DELEGATION OF ATS RESPONSIBILITIES - WITHIN THE SHANNON UIR

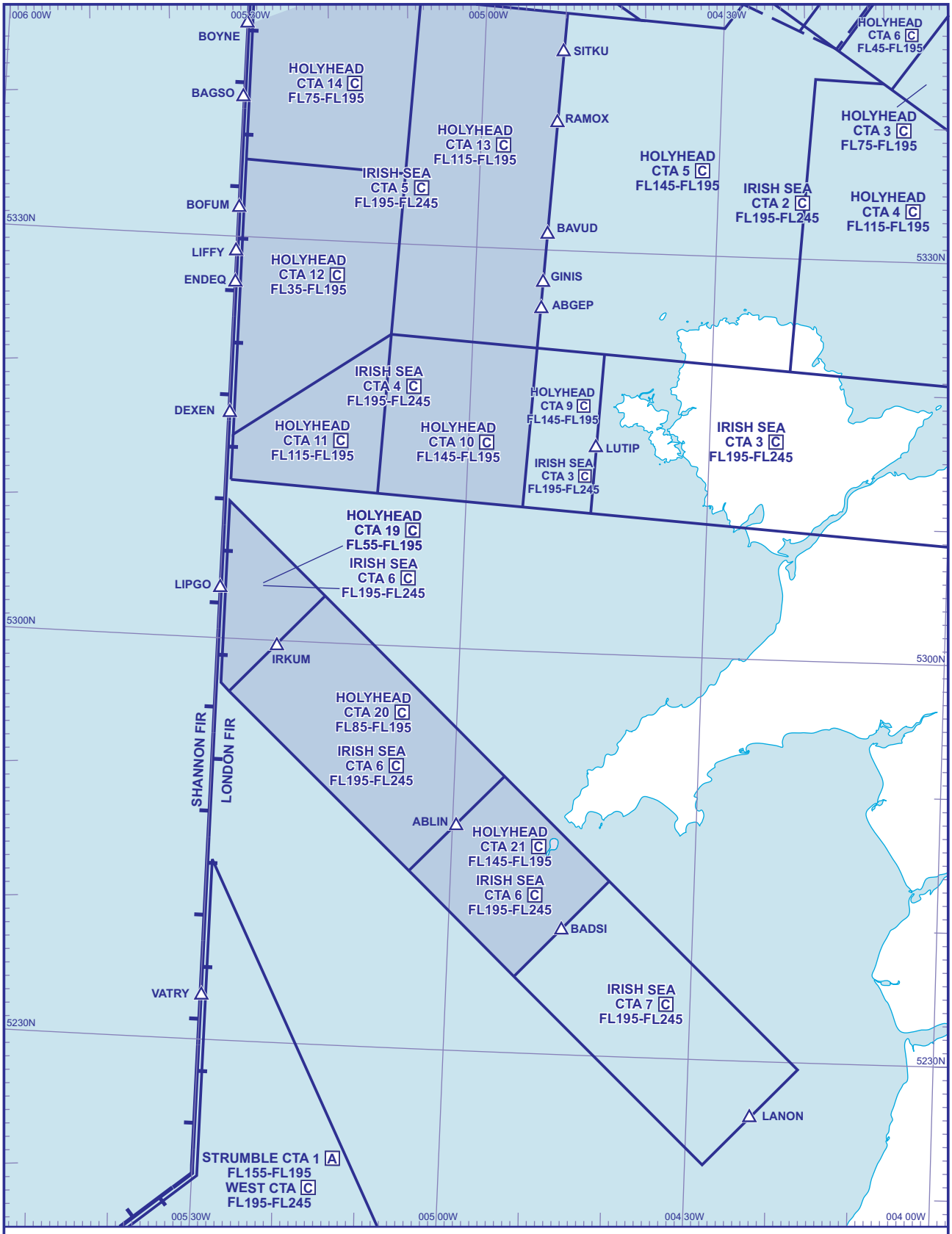


CHANGE (9/25): WAYPOINT, ROUTES UPDATED.

AERO INFO DATE 27 JUN 25

ENR 6-49

DELEGATION OF ATS RESPONSIBILITIES - WITHIN THE IRISH SEA

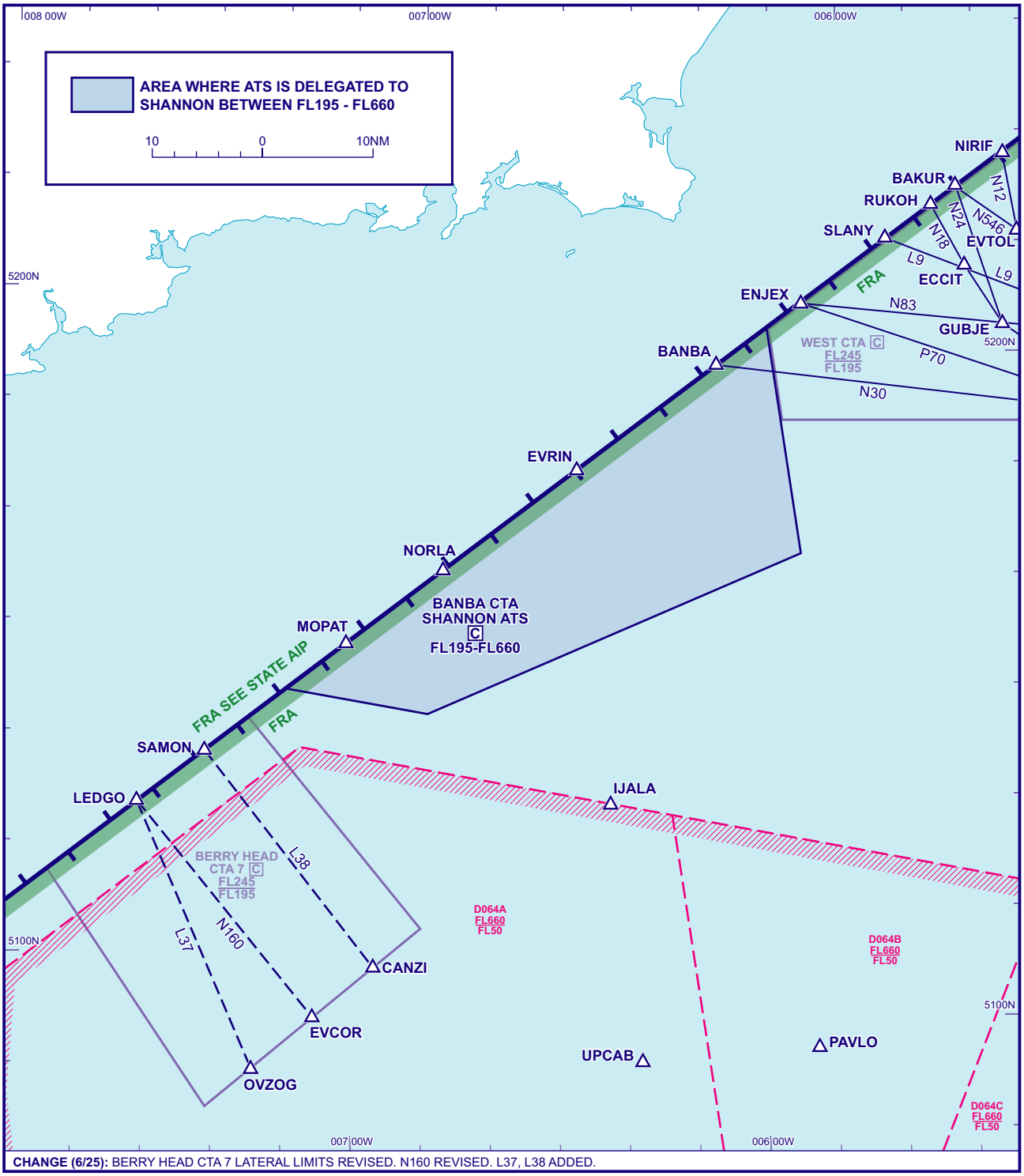


CHANGE (3/23): AIRSPACE REVISED.

AERO INFO DATE 05 DEC 22

ENR 6-50

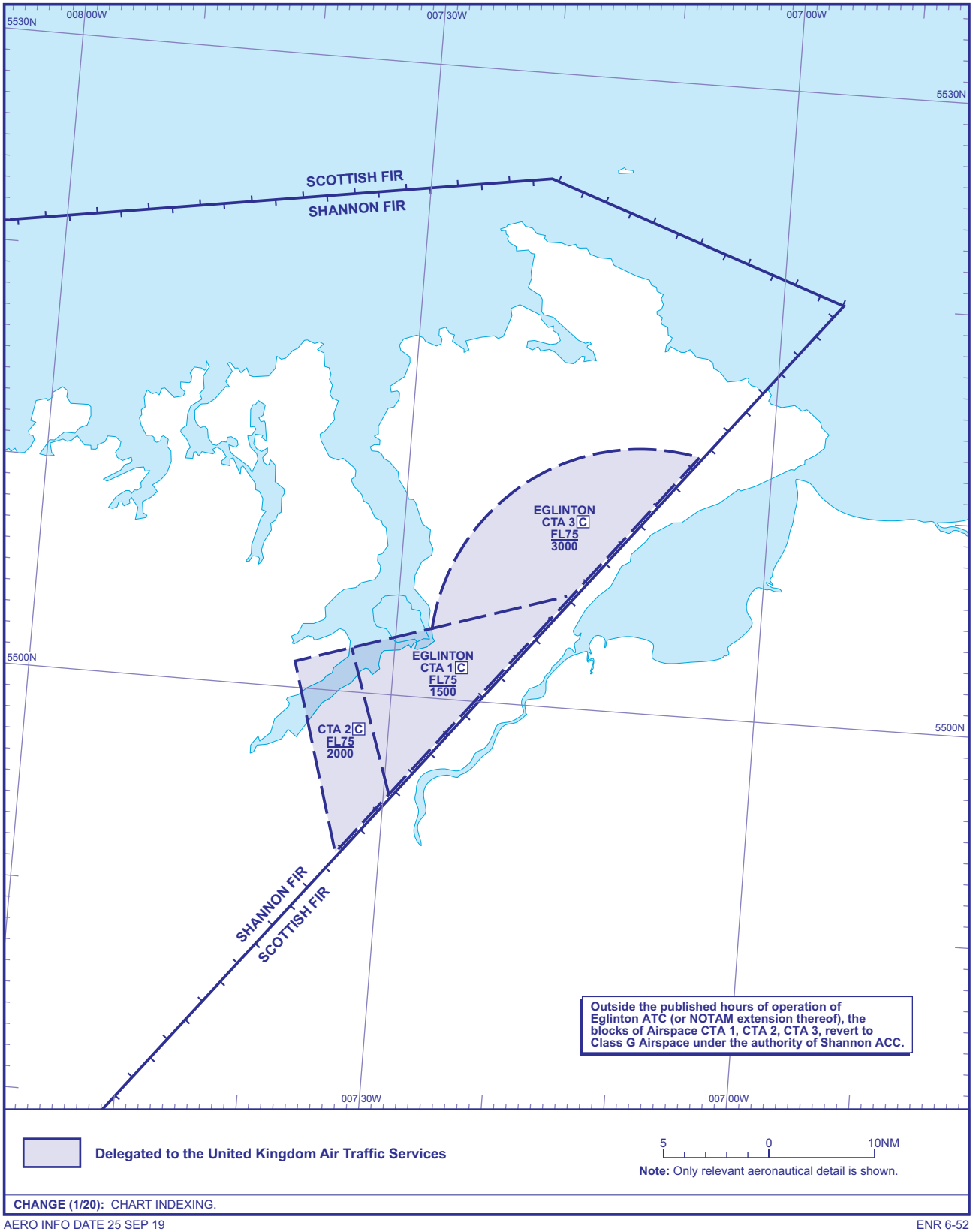
DELEGATION OF ATS RESPONSIBILTIES - WITHIN BANBA CTA



CHANGE (6/25): BERRY HEAD CTA 7 LATERAL LIMITS REVISED. N160 REVISED. L37, L38 ADDED.

AERO INFO DATE 31 MAR 25

DELEGATION OF ATS RESPONSIBILITIES - WITHIN THE SHANNON FIR - EGLINTON CTA AREAS

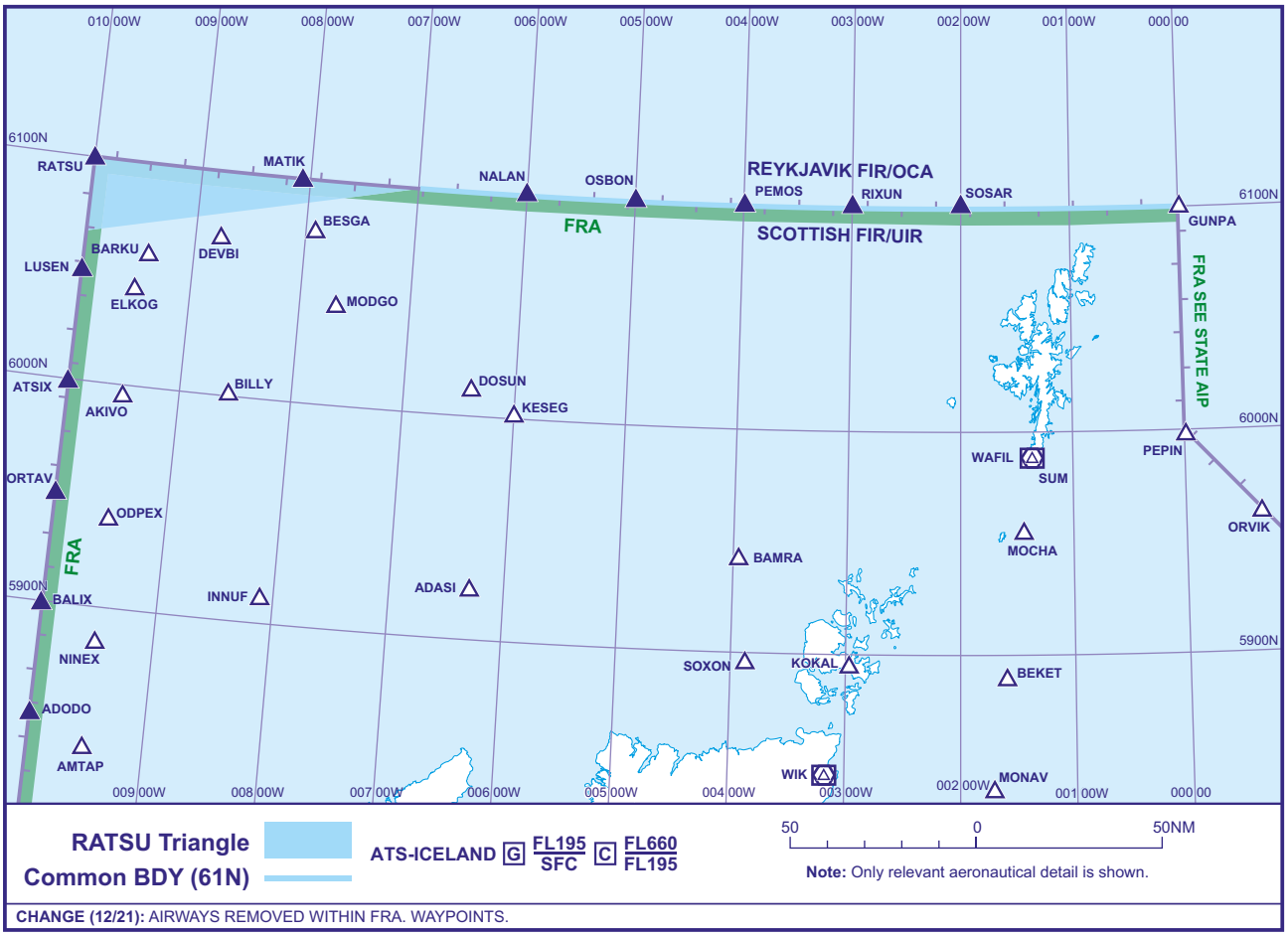


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 25 SEP 19

ENR 6-52

DELEGATION OF ATS RESPONSIBILITIES - WITHIN THE NORTHWESTERN CORNER OF THE SCOTTISH FIR/UIR AND ALONG THE COMMON SCOTTISH AND REYKJAVIK FIR/UIR BOUNDARY

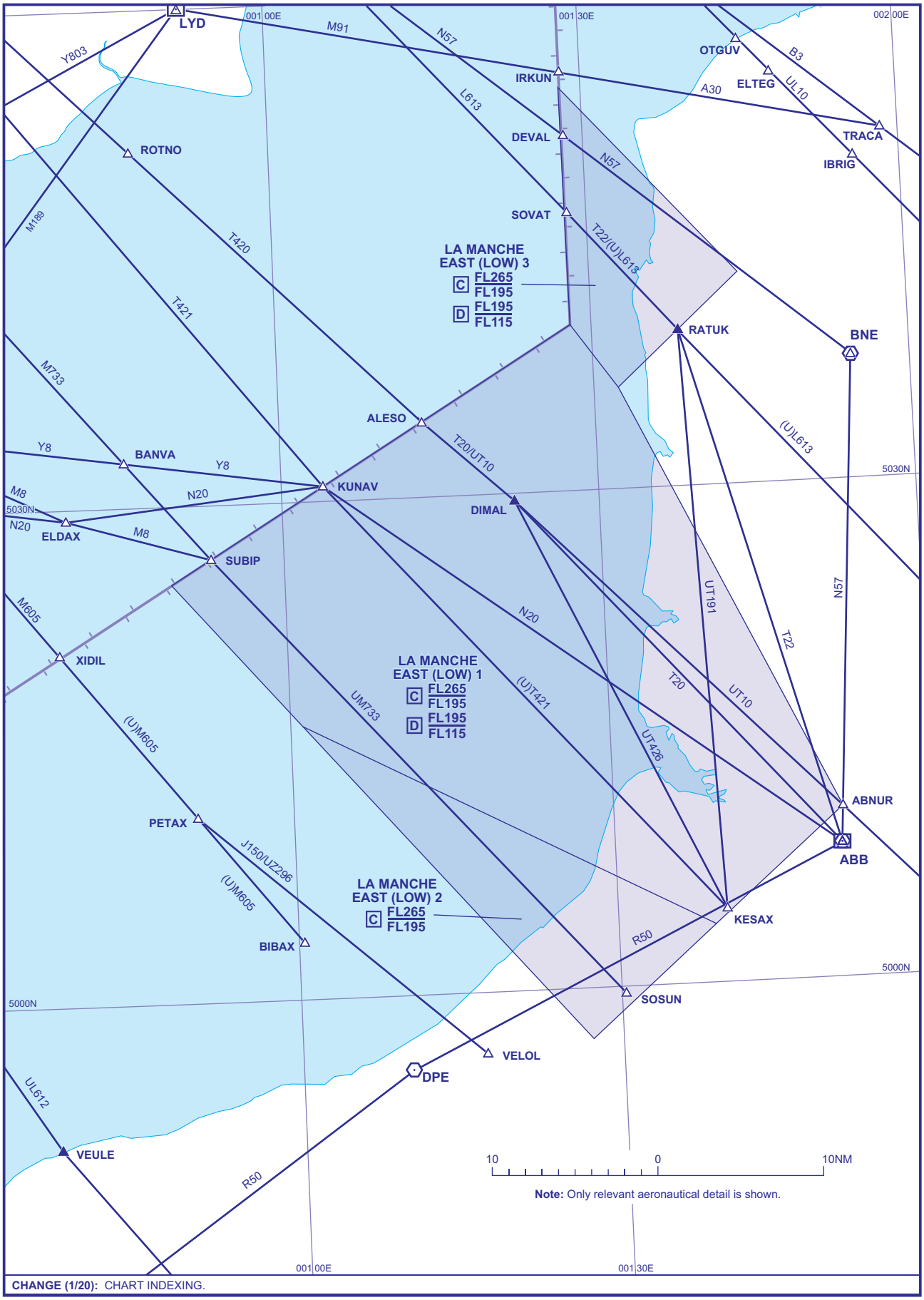


CHANGE (12/21): AIRWAYS REMOVED WITHIN FRA. WAYPOINTS.

AERO INFO DATE 24 SEP 21

ENR 6-53

DELEGATION OF ATS RESPONSIBILITIES - LA MANCHE EAST (LOW)

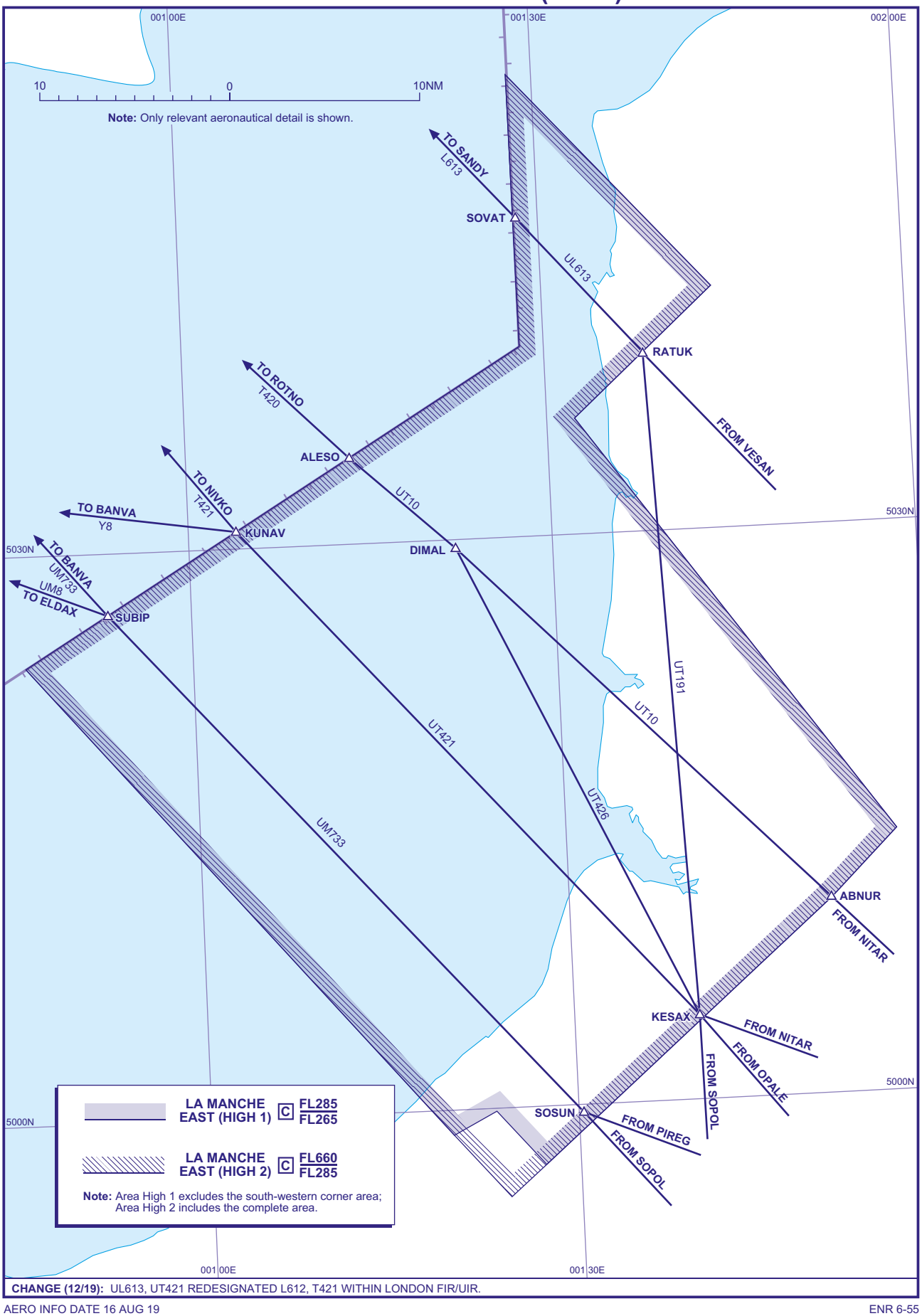


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 25 SEP 19

ENR 6-54

DELEGATION OF ATS RESPONSIBILITIES - LA MANCHE EAST (HIGH)

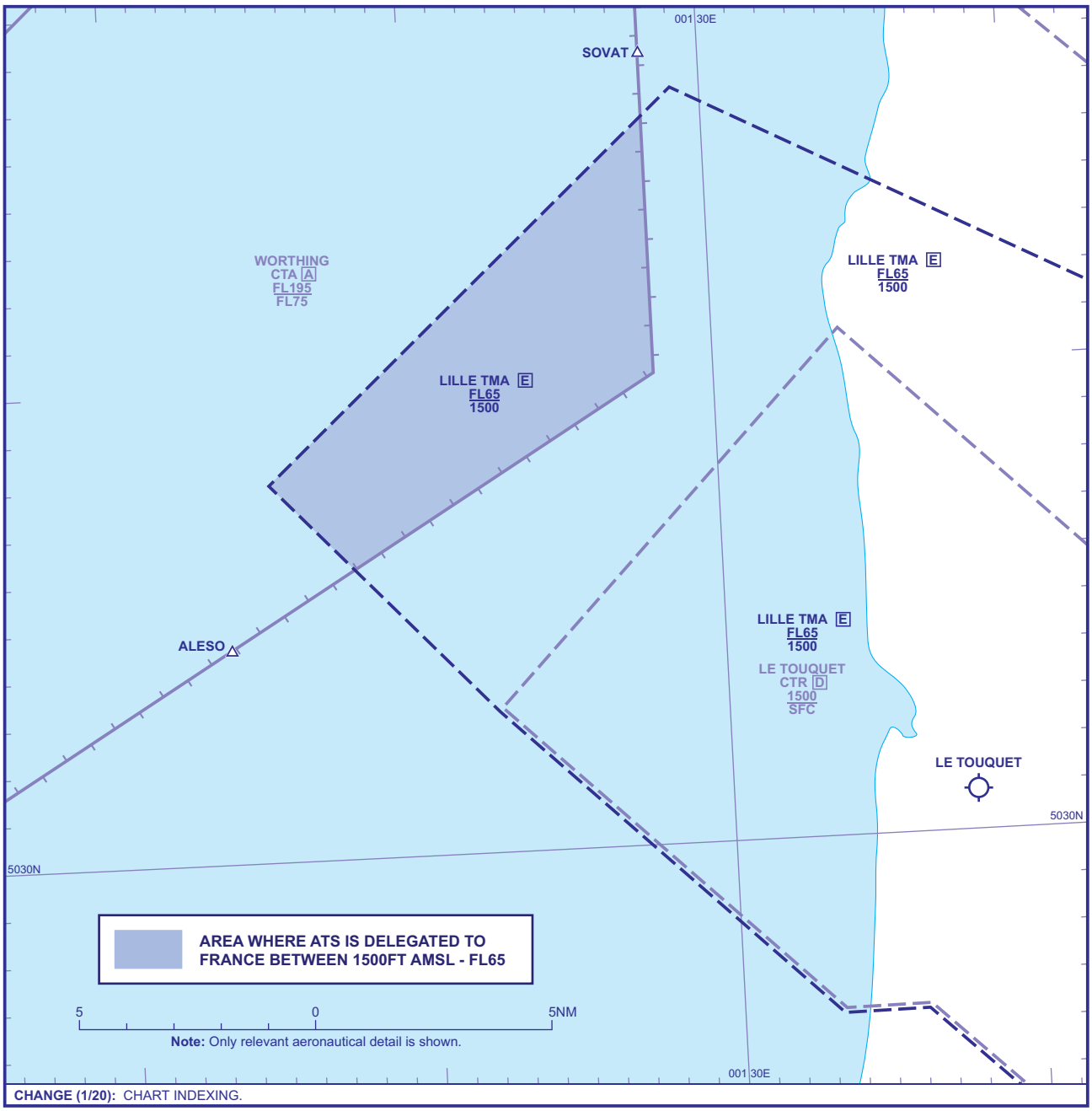


CHANGE (12/19): UL613, UT421 REDESIGNATED L612, T421 WITHIN LONDON FIR/UIR.

AERO INFO DATE 16 AUG 19

ENR 6-55

DELEGATION OF ATS RESPONSIBILITIES - SOUTH EASTERN SECTION OF THE ENGLISH CHANNEL

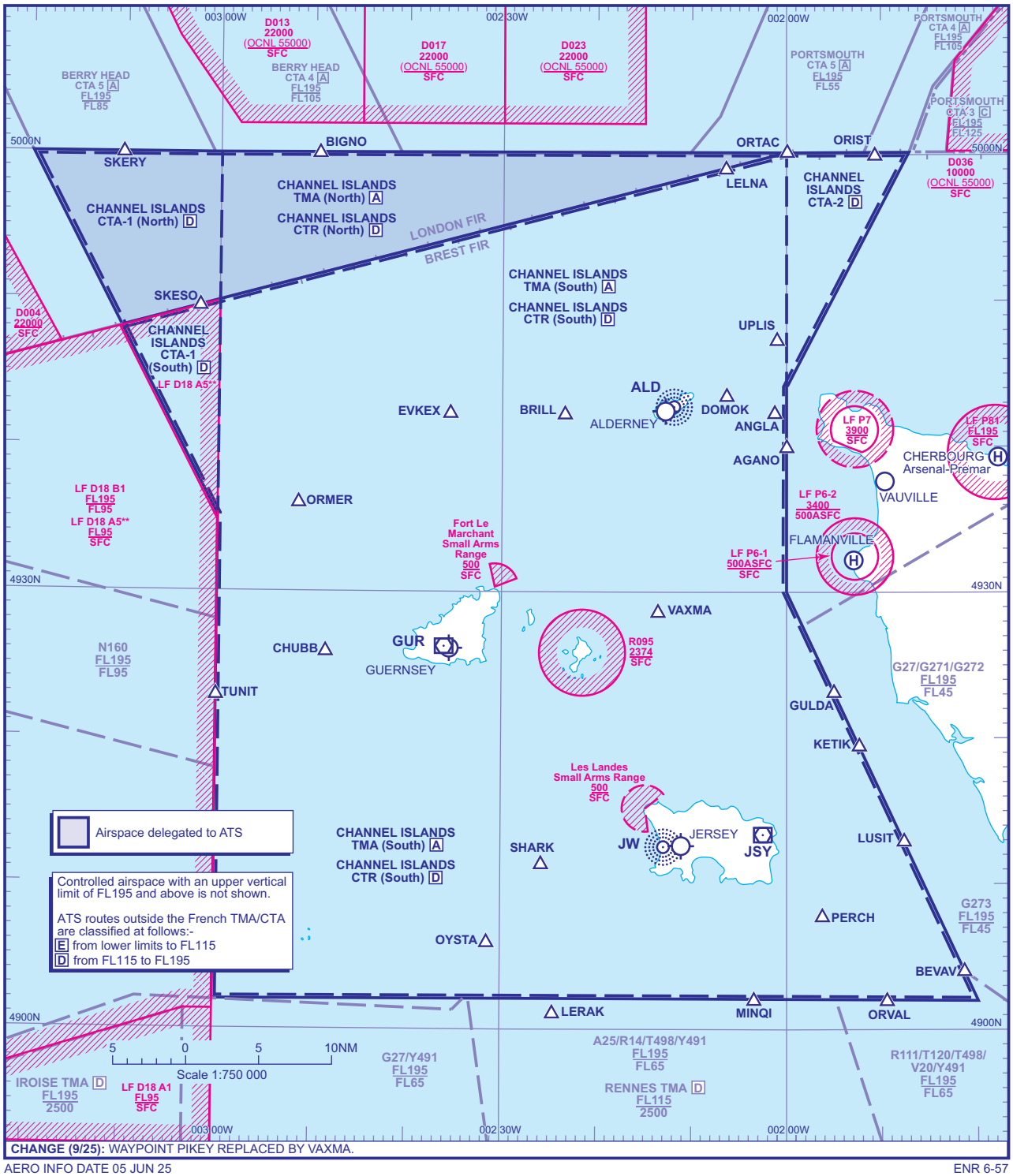


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 25 SEP 19

ENR 6-56

DELEGATION OF ATS RESPONSIBILITIES - THE CHANNEL ISLANDS



CHANGE (9/25): WAYPOINT PIKEY REPLACED BY VAXMA.

AERO INFO DATE 05 JUN 25

ENR 6-57

AIRSPACE
Upper/Lower Limits †
Controlled airspace with an upper vertical limit above FL195 is not shown

CHANNEL ISLANDS*		
CTR (North)	D	FL80 / SFC
CTR (South)	D	FL80 / SFC
CTA-1 (North)	D	FL80 / FL55
CTA-1 (South)	D	FL80 / FL55
CTA-2	D	FL80 / 3500

CHANNEL ISLANDS*		
TMA (North)	A	FL195 / FL80
TMA (South)	A	FL195 / FL80

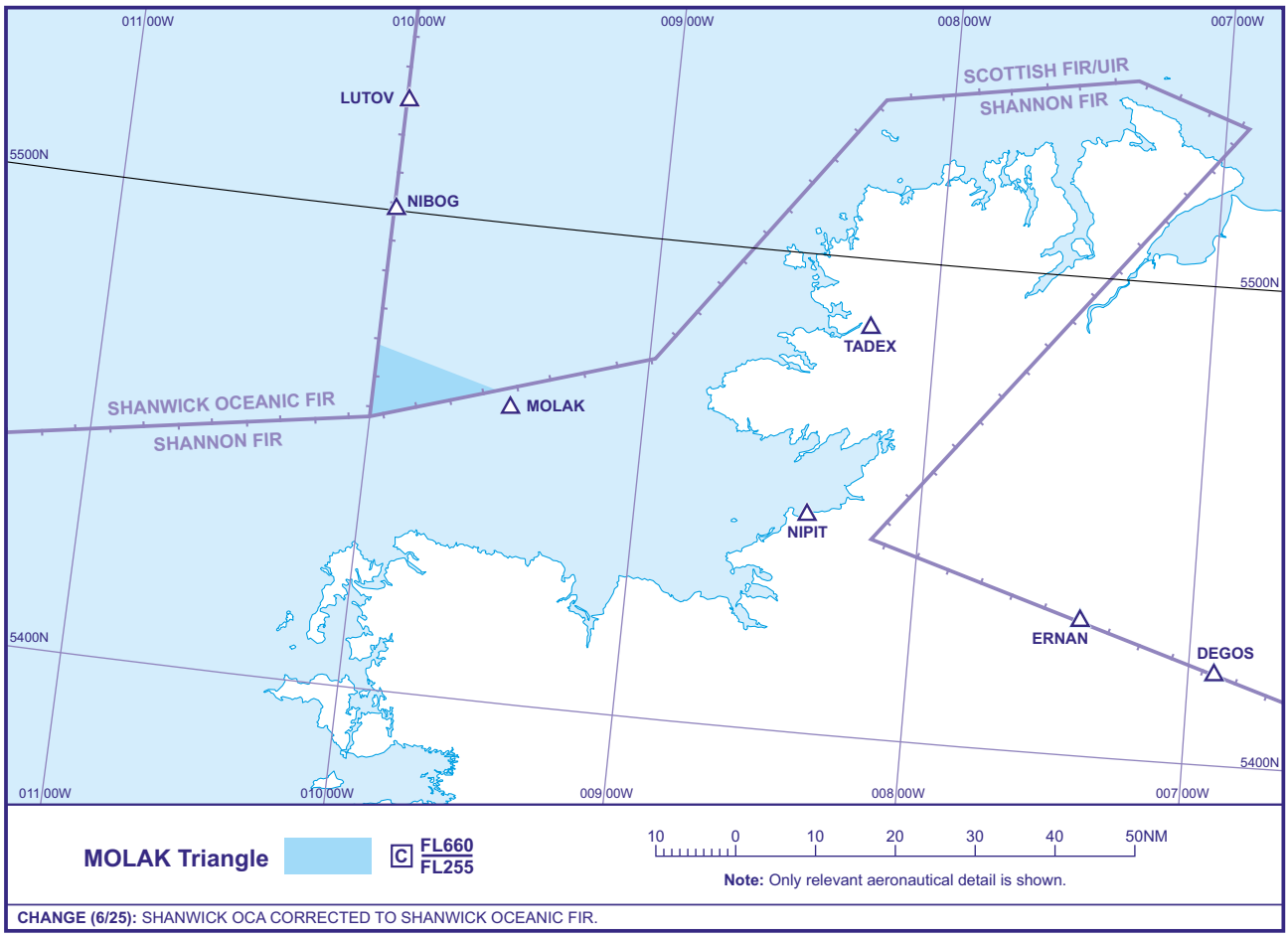
† For lateral limits:
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
Detailed description of air traffic services airspace organized at an aerodrome see AD 2.17.

* Outside Jersey notified hours and within Brest FIR
The airspace adopts the classification appropriate to Airway or uncontrolled airspace designation, as appropriate, as detailed in the France AIP.

Outside Jersey notified hours and within London FIR
CTR, CTA-1 and TMA revert to Class G.

** **LF D18 A5** SFC-FL95, except for within CHANNEL ISLANDS CTA-1 (South) and TMA (South) when active.

DELEGATION OF ATS RESPONSIBILITIES - WITHIN THE SOUTH WEST CORNER OF THE SCOTTISH UIR - MOLAK AREA



CHANGE (6/25): SHANWICK OCA CORRECTED TO SHANWICK OCEANIC FIR.

AERO INFO DATE 24 MAR 25

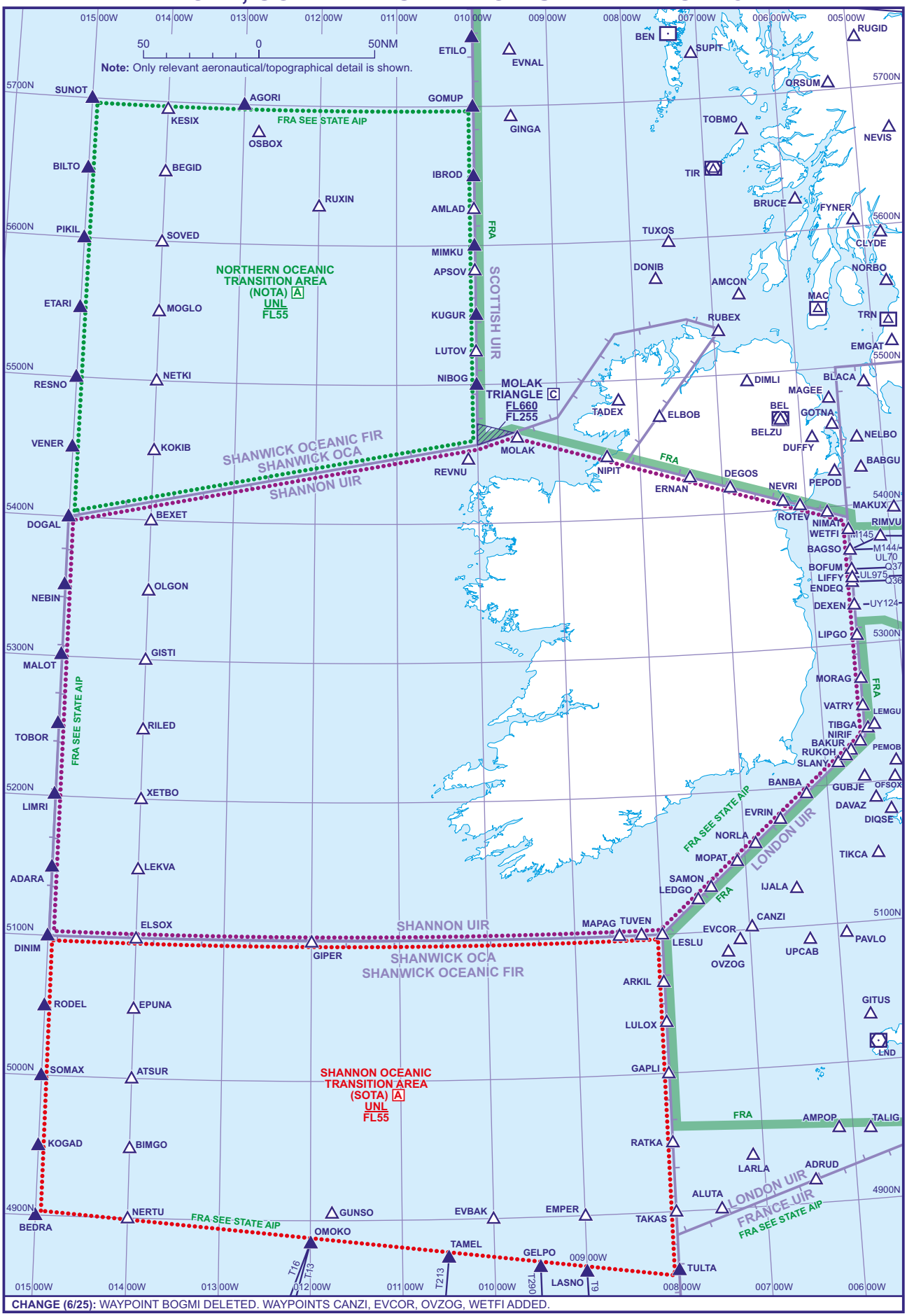
MILITARY AERODROME TRAFFIC ZONES



CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

AERO INFO DATE 06 JUN 25

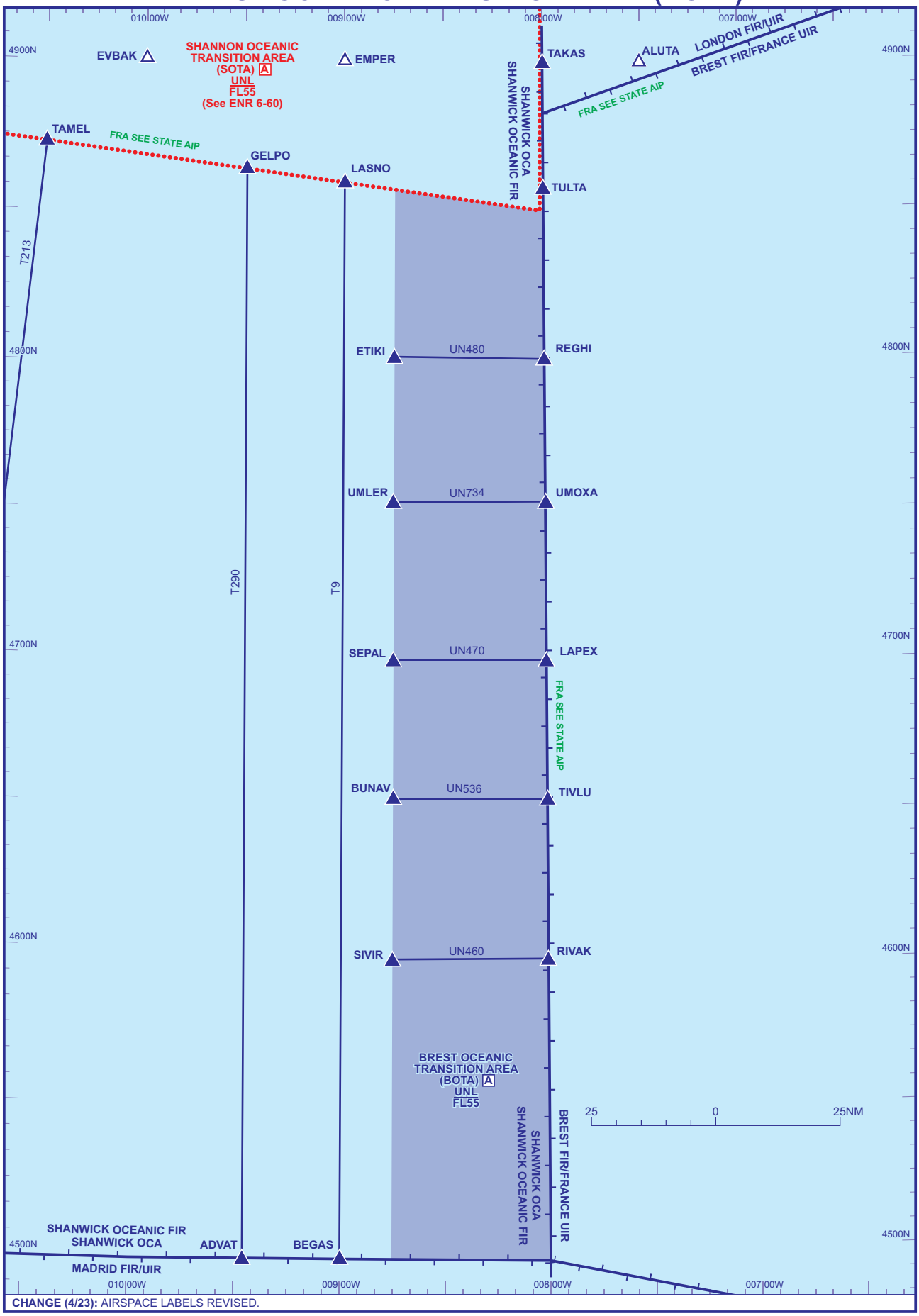
NOTA, SOTA AND SHANNON UPPER AIRSPACE



CHANGE (6/25): WAYPOINT BOGMI DELETED. WAYPOINTS CANZI, EVCOR, OVZOG, WETFI ADDED.

AERO INFO DATE 26 MAR 25

BREST OCEANIC TRANSITION AREA (BOTA)

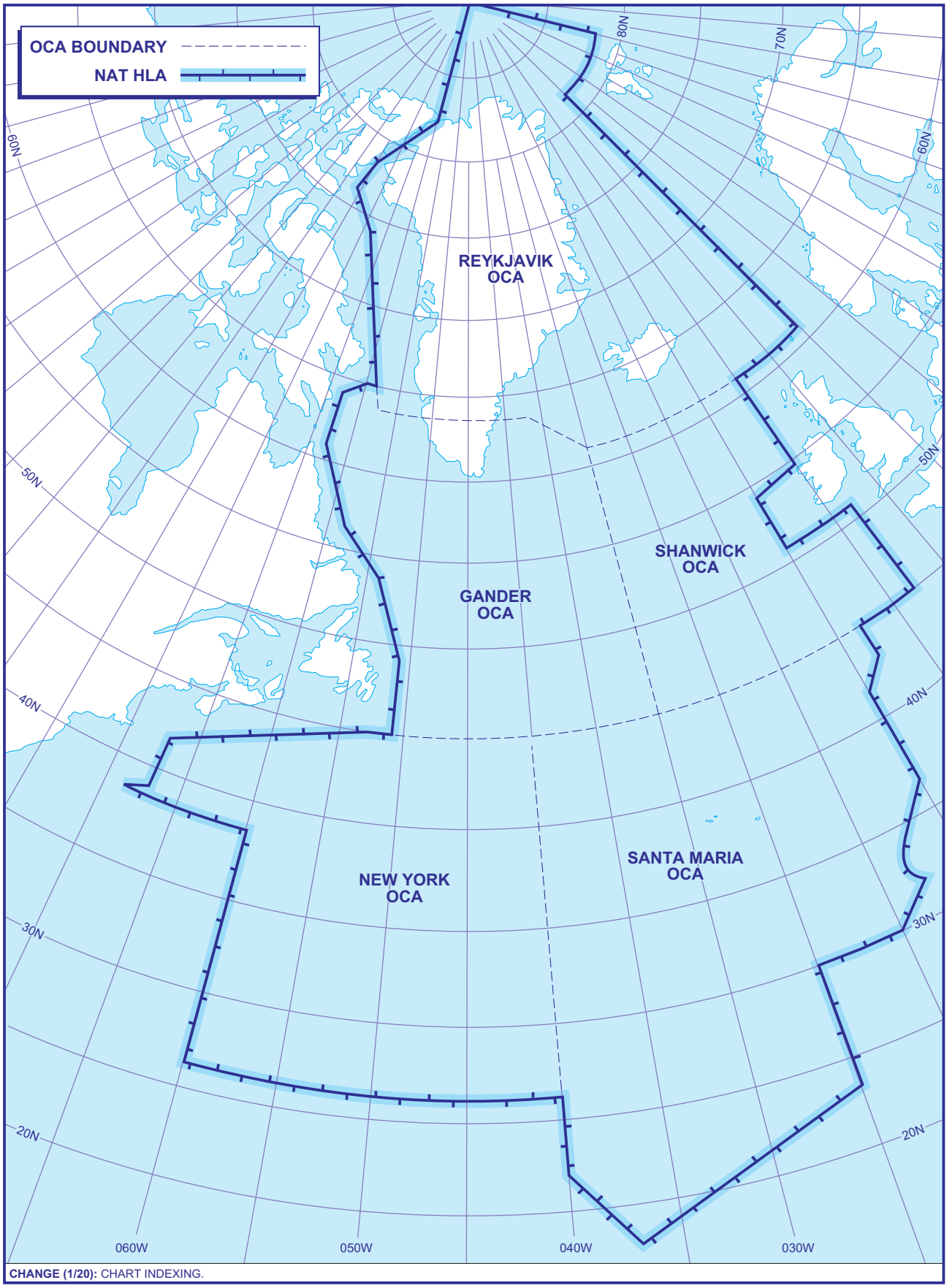


CHANGE (4/23): AIRSPACE LABELS REVISED.

AERO INFO DATE 24 JAN 23

ENR 6-61

NORTH ATLANTIC HIGH LEVEL AIRSPACE (NAT HLA) BETWEEN FL285 AND FL420

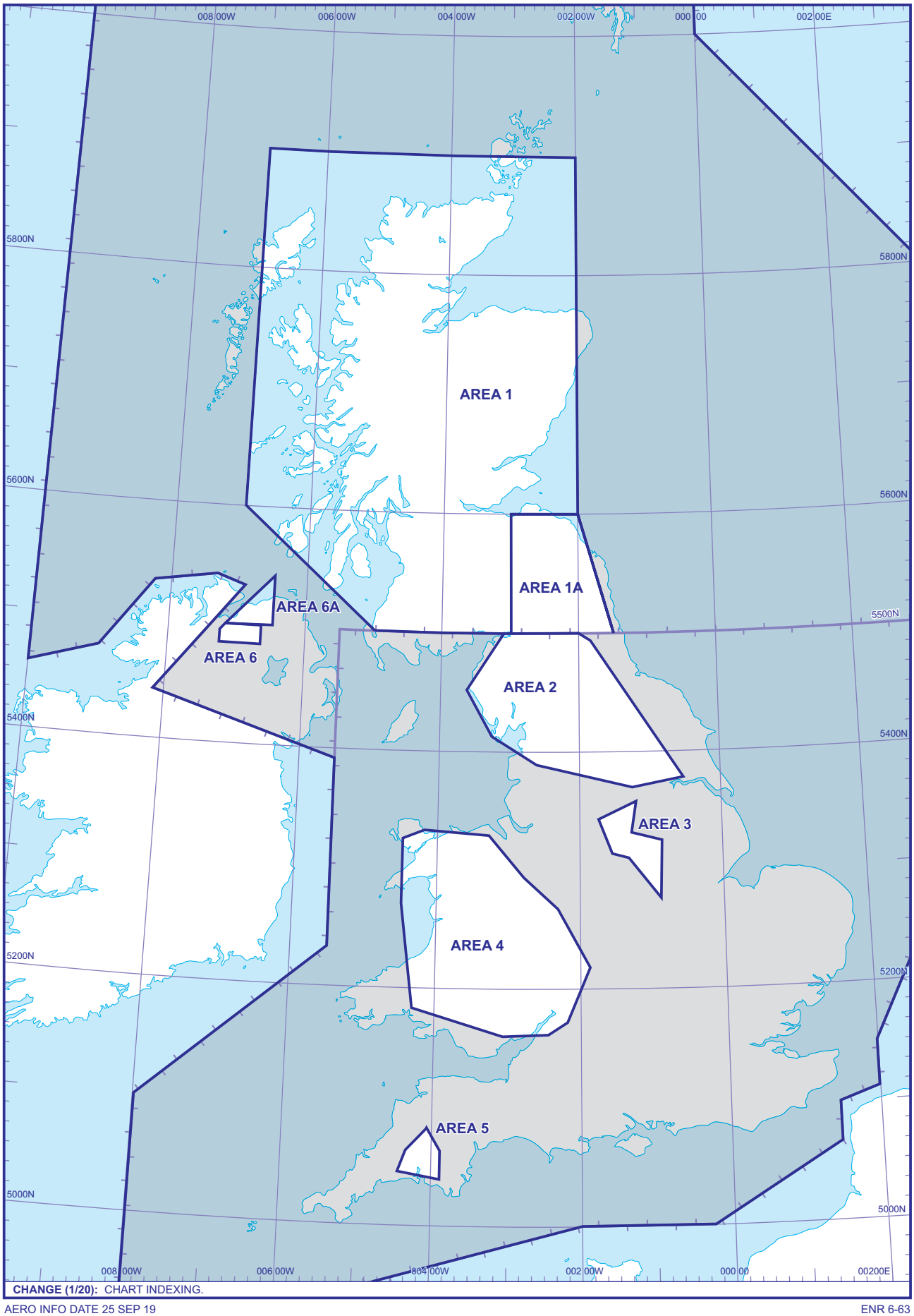


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 25 SEP 19

ENR 6-62

NON-SECONDARY SURVEILLANCE RADAR GLIDER AREAS

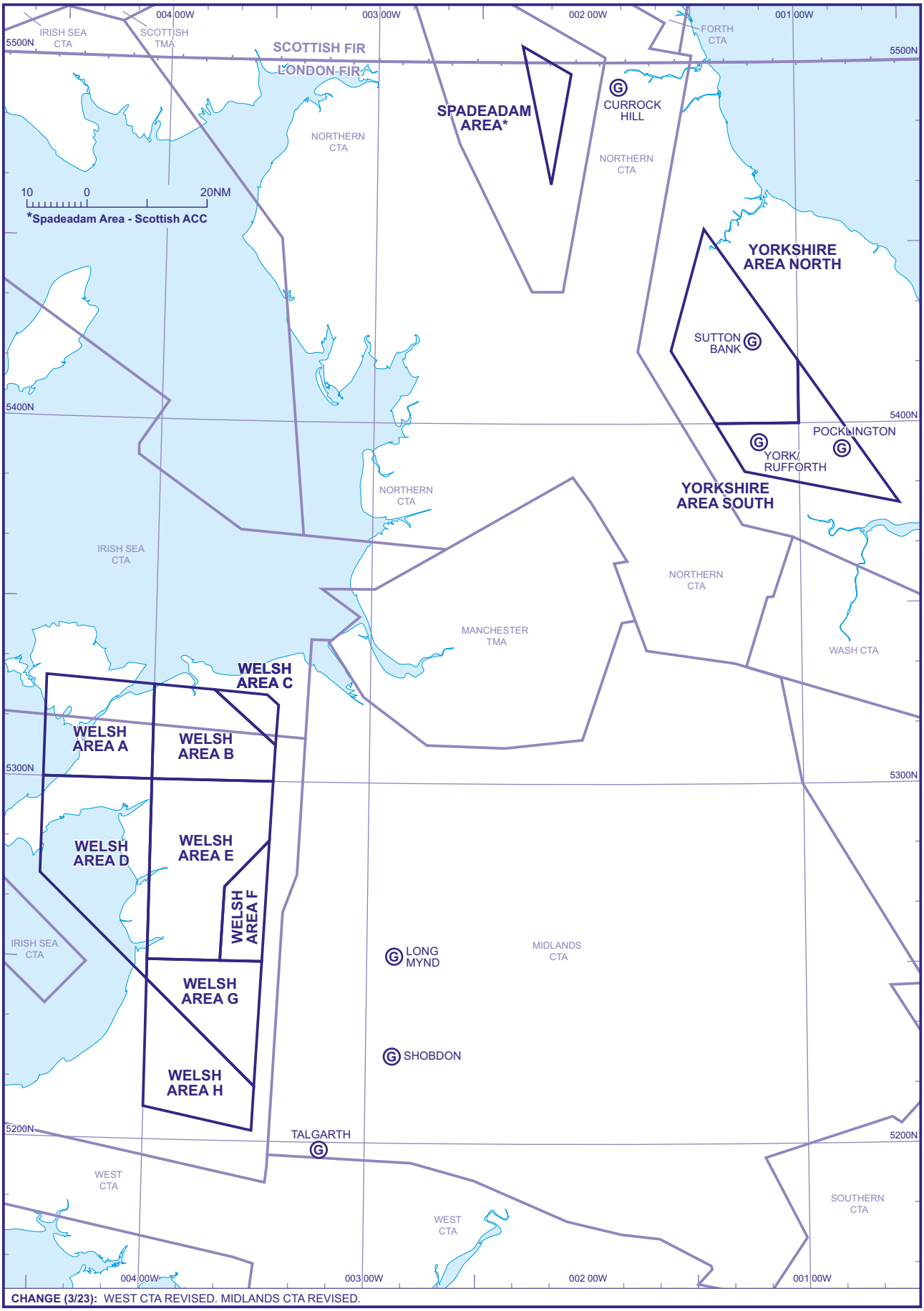


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 25 SEP 19

ENR 6-63

TEMPORARY RESERVED AREAS (GLIDING) IN CLASS C AIRSPACE BETWEEN FL195 AND FL240 IN THE LONDON ACC AREA

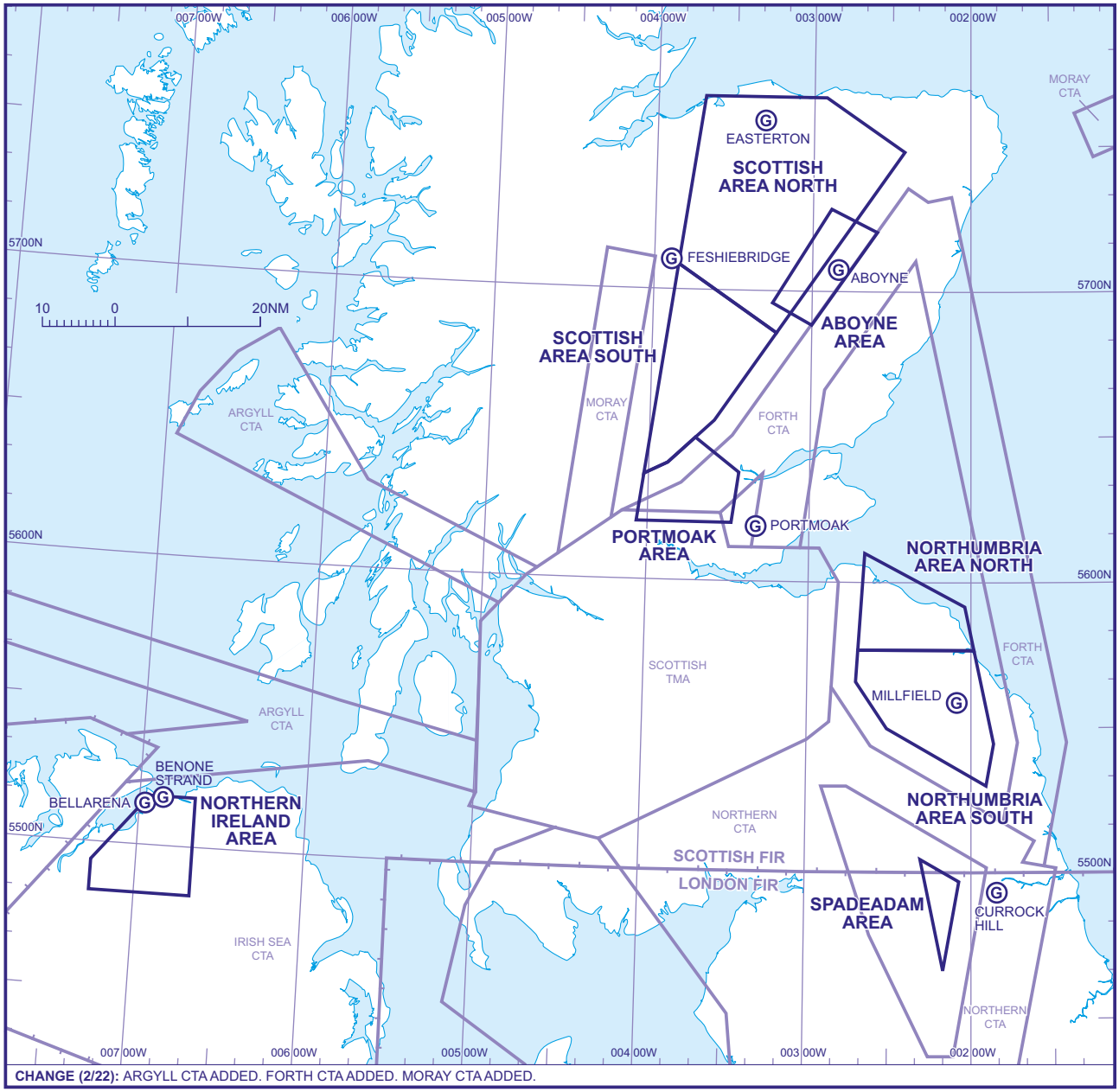


CHANGE (3/23): WEST CTA REVISED. MIDLANDS CTA REVISED.

AERO INFO DATE 09 JAN 23

ENR 6-64

TEMPORARY RESERVED AREAS (GLIDING) IN CLASS C AIRSPACE BETWEEN FL195 AND FL240 IN THE SCOTTISH ACC AREA

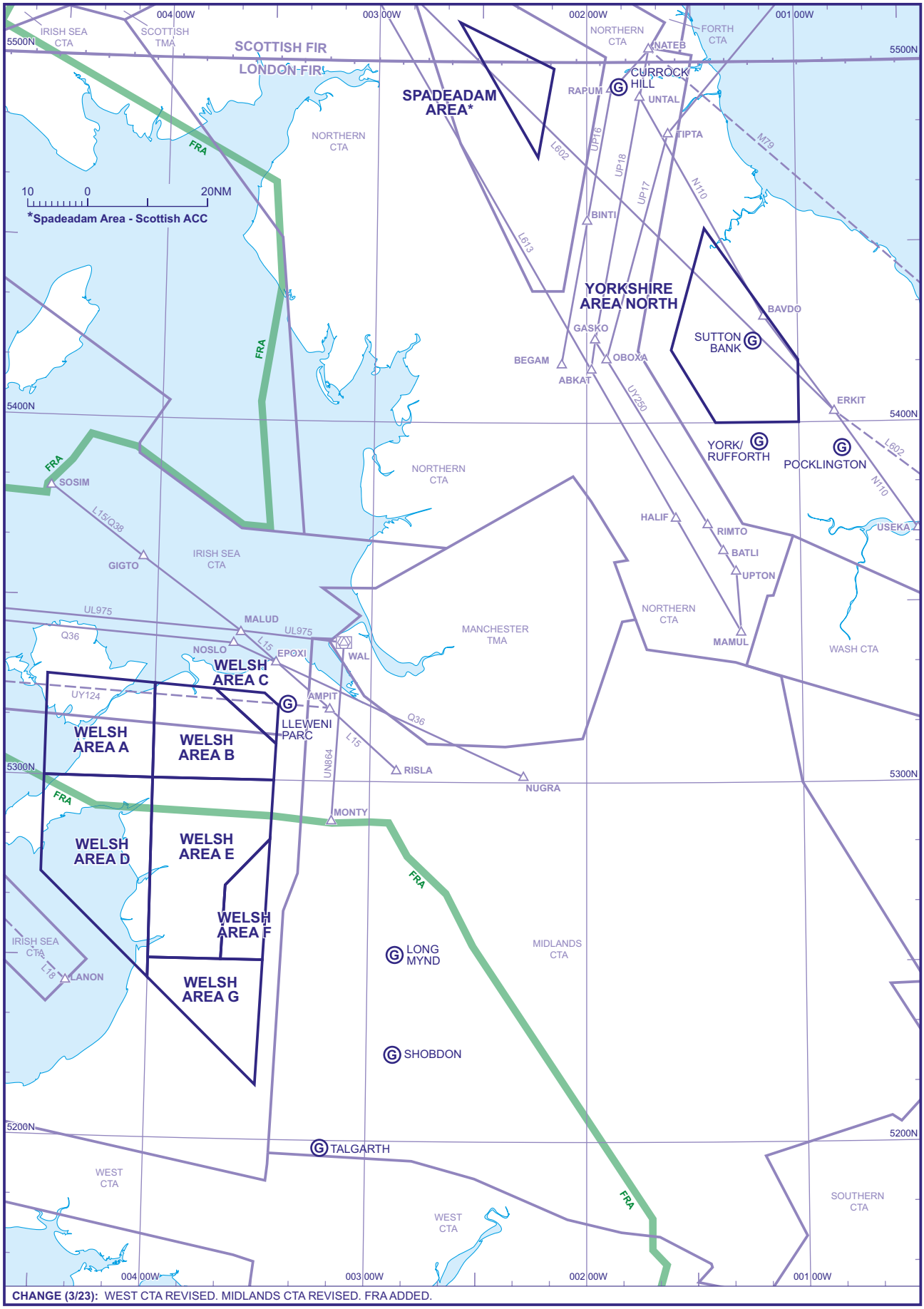


CHANGE (2/22): ARGYLL CTA ADDED. FORTH CTA ADDED. MORAY CTA ADDED.

AERO INFO DATE 02 DEC 21

ENR 6-65

TEMPORARY RESERVED AREAS (GLIDING) IN CLASS C AIRSPACE ABOVE FL240 IN THE LONDON ACC AREA

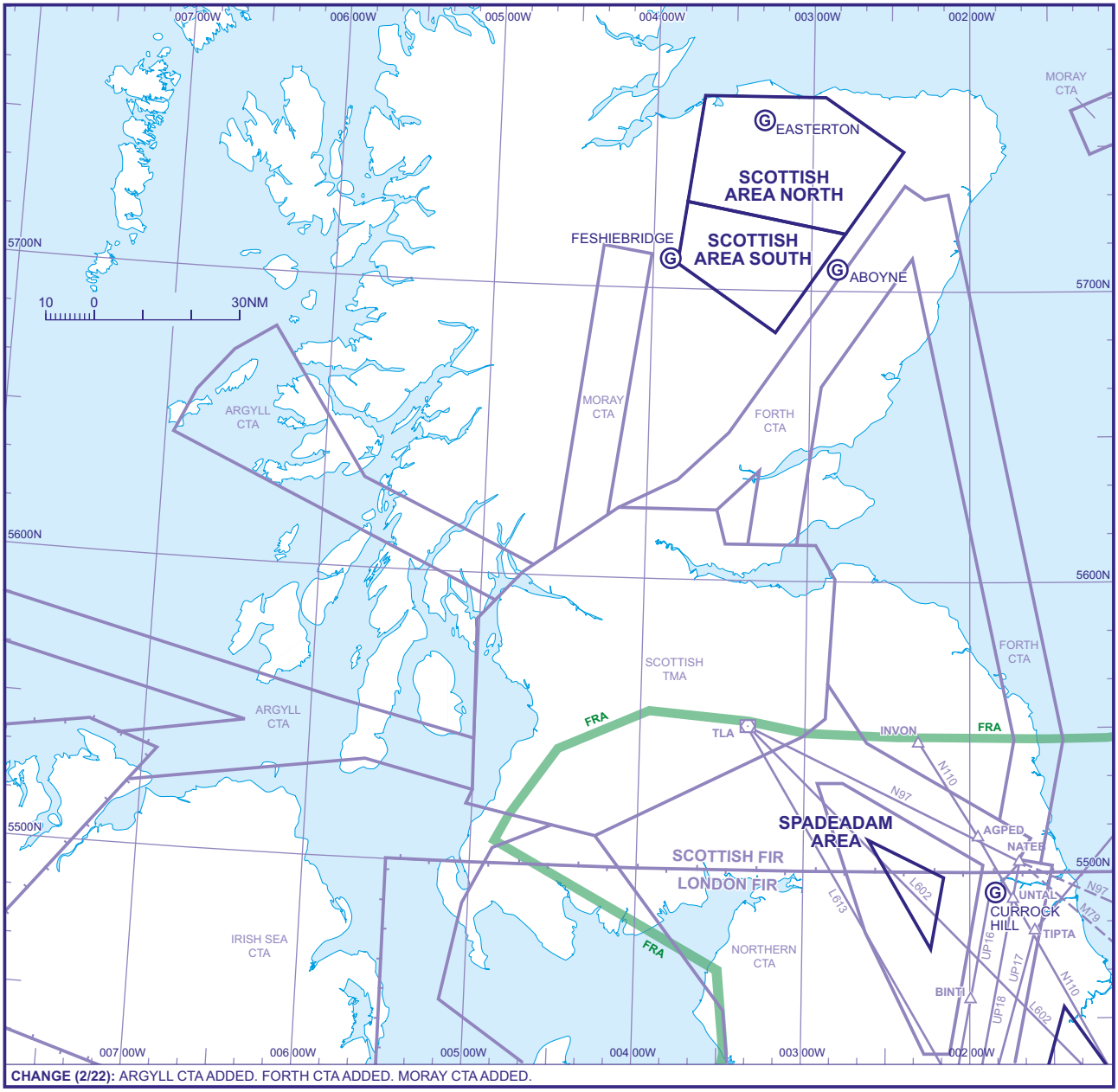


CHANGE (3/23): WEST CTA REVISED. MIDLANDS CTA REVISED. FRA ADDED.

AERO INFO DATE 10 JAN 23

ENR 6-66

TEMPORARY RESERVED AREAS (GLIDING) IN CLASS C AIRSPACE ABOVE FL240 IN THE SCOTTISH ACC AREA

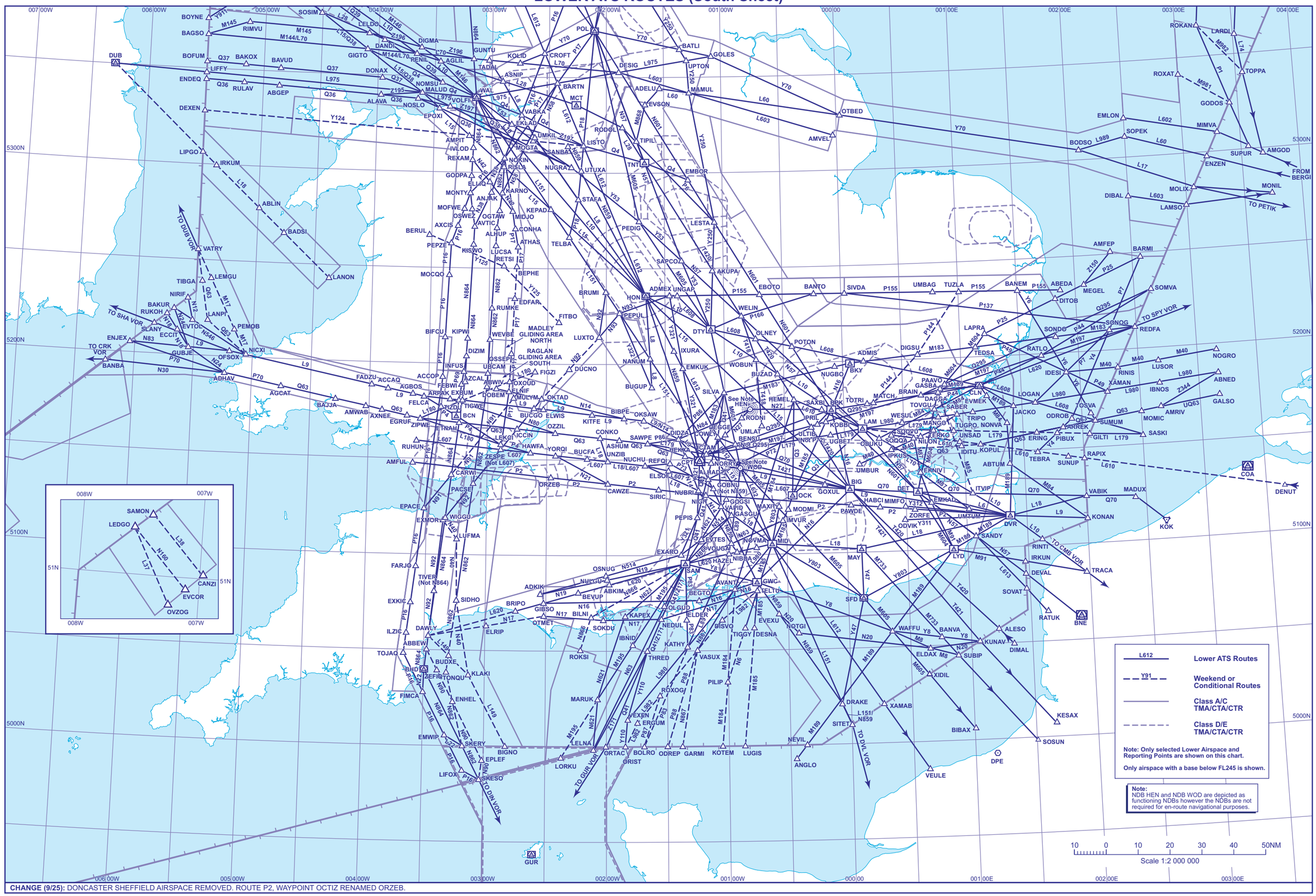


CHANGE (2/22): ARGYLL CTA ADDED. FORTH CTA ADDED. MORAY CTA ADDED.

AERO INFO DATE 10 DEC 21

ENR 6-67

LOWER ATS ROUTES (South Sheet)


007 00W
006 00W
005 00W
004 00W
003 00W
002 00W
001 00W
000 00
001 00E
002 00E
003 00E
004 00E
5300N
5200N
5100N
5000N
DUB
BOYNE
BAGSO
BOFUM
LIFFY
ENDEQ
DEXEN
LIPGO
IRKUM
ABLIN
BADSI
VATRY
TO DUB VOR
LANON
TIBGA
LEMGU
NIRIF
BAKUR
RUKOH
LANPI
EVTOL
PEMOB
SLANY
ECCIT
ENJEX
TO SHA VOR
TO CRK VOR
BANBA
GUBJE
OFSOX
NICXI
ADHAV
AGCAT
BAJJA
AMWAB
AXNEE
EGRUF
ZIPWE
ETNAH
RUHUN
AMFUL
EPACE
EXMOR
FARJO
TIVER
(Not N864)
EXKIC
ILZIC
DAWLY
ABBEW
TOJAQ
BHD
FIMCA
EMWIP
LIFOX
SKERY
EPLEF
SKESO
BIGNO
TO DIN VOR
LORKU
TO GUR VOR
GUR
LELNA
MARUK
ROKSI
SOKDU
ELRIP
OTMET
BRIPO
ADKIK
OSNUG
TIVER
(Not N864)
SIDHO
LUFMA
WIGGU
CARWI
PACSE
ORZEB
CAWZE
SIRIC
ZESPE
(Not L607)
HAWFA
YORQI
BUCFA
ICCIN
LEKOT
CONKO
ASHUM
UNZIB
NUCHU
REFQI
ELSOP
NUBRI
NIGIT
GOBNU
(Not N859)
ORTAC
BOLRO
ODREP
GARMI
KOTEM
LUGIS
ORIST
ORZEB
SAMON
LEDGO
CANZI
EVCOR
OVZOG
SOSIM
LELDO
DANDI
GIGTO
DONAX
NOMSU
MALUD
RENIL
DIGMA
AGLIL
GUNTU
ALAVA
NOSLO
EPOXI
VOLFI
WAL
TADAL
KOLID
POL
CROFT
BARTN
MCT
ASNIP
VABKA
EKLAD
UMKIL
AMPIT
IVLOD
REXAM
GODPA
ELLIQ
MONTY
MOFWE
OSWEI
AXCIS
BERUL
PEPZE
MOCQO
KISWO
OGTAW
AVTIC
ALHUP
LUCSA
RETSI
EDFAR
RUMKE
BEPHE
MADLEY
GLIDING AREA
NORTH
RAGLAN
GLIDING AREA
SOUTH
OSSEP
UBCAM
FIGZI
DUCNO
INFUS
DIZIM
BIFCU
KIPWI
WEVBE
LUXTO
NANUM
BUGUP
ACCOP
AZCAL
GBWIV
OXCUD
FEBWI
ELNIF
DOBEM
MULYM
OKTAD
FELCA
ARPAK
EXBUM
TIGWE
BCN
BUCGO
ELWIS
OZZIL
KITFE
BIBPE
OKSAW
SAWPE
DIDZA
UMLAT
BENSU
(NOT Q295)
ULTIB
(NOT P72)
UGBET
QBUKU
SOQQA
SQQVU
ZERKO
NILON
IDITU
KOPUL
UNSAD
TUGPO
NONVA
TRIPO
TOVGU
SABER
EVMEK
DAGGA
GASBA
PAAVO
BRAIN
MATCH
TOTRI
SAXBI
BPK
PRIL
KOBBI
WESUL
MANGO
LAM
ADMIS
DIGSU
TEDSA
RATLO
LAPRA
SONDO
SONOG
REDFA
TO SPY VOR
SOMVA
BARMI
AMFEP
MEGEL
DITOB
ABEDA
BANEM
TUZLA
UMBAG
SIVDA
BANTO
EBOTO
P155
P137
P166
WELIN
OLNEY
POTON
DTY
HON
PEPUL
ADMEX
UNGAP
AKUPA
SAPCO
LESTA
PEDIG
TELBA
ATHAS
CONHA
STAFA
KEPAD
KARNO
ANJAK
RISLA
NOKIN
NUGRA
UTUXA
RODOL
LISTO
SANBA
MOGTA
TIPIL
TNT
EMBOR
ADELU
EVSON
DESIG
BATLI
UPTON
GOLES
MAMUL
OTBED
AMVEL
ROKAN
LARDI
TOPPA
ROXAT
GODOS
EMLON
SOPEK
MIMVA
BODSO
SUPUR
AMGOD
ENZEN
FROM BERGI
DIBAL
MOLIX
LAMSO
MONIL
TO PETIK
COA
DENUT
VABIK
MADUX
KONAN
KOK
DVR
SANDY
LYD
RINTI
IRKUN
DEVAL
TRACA
SOVAT
RATUK
BNE
SFD
WAFFU
BANVA
ALESO
KUNAV
DIMAL
SUBIP
ELDAX
XIDIL
DRAKE
XAMAB
SITET
KESAX
SOSUN
BIBAX
DPE
VEULE
NEVIL
ANGLO
TO DVL VOR
MAY
IMVUR
MIDVA
NOVMA
NIBBA
HAZEL
SAM
AVANT
GWC
TELTU
BEGTO
OLGUD
ELDER
KAPEX
EVEXU
NOTGI
TIGGY
DESNA
BISVO
NEDUL
KATHY
THRED
VASUX
PILIP
ROXOG
VEXEN
ERGUM
PEPIS
GASGU
GOGSI
VAPID
MODMI
PAWDE
ODVIK
EKNIV
EMKAD
ZORFE
IJMUM
ITVIP
ABTUM
KOPUL
TEBRA
SUNUP
RAPIX
GILTI
ERING
PIBUX
SASKI
AMRIV
MOMIC
GALSO
UQ63
TOSVA
ODROB
JACKO
LOGAN
IBNOS
XAMAN
RINIS
IDESI
LUSOR
NOGRO
ABNED
Z344
L980
M40
P49
P44
P25
Y6
P7
Y4
Z150
Q295
M197
M189
M684
M605
M185
M195
M733
M624
M869
M601
M57
M84
M92
M91
M63
M981
M962
M74
M145
M144/L70
M146
Z196
Z195
Z197
Y124
Y70
Y250
Y321
Y322
Y53
Y125
Y110
Y803
Y47
Y311
Y312
Y8
Y20
T420
T421
T418
T420
T148
L612
L151
L608
L603
L602
L620
L613
L610
L607
L180
L149
L9
L10
L15
L18
L60
L70
L975
L989
L17
N864
N862
N859
N621
N601
N57
N16
N17
N19
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N514
N559
N869
N682
N683
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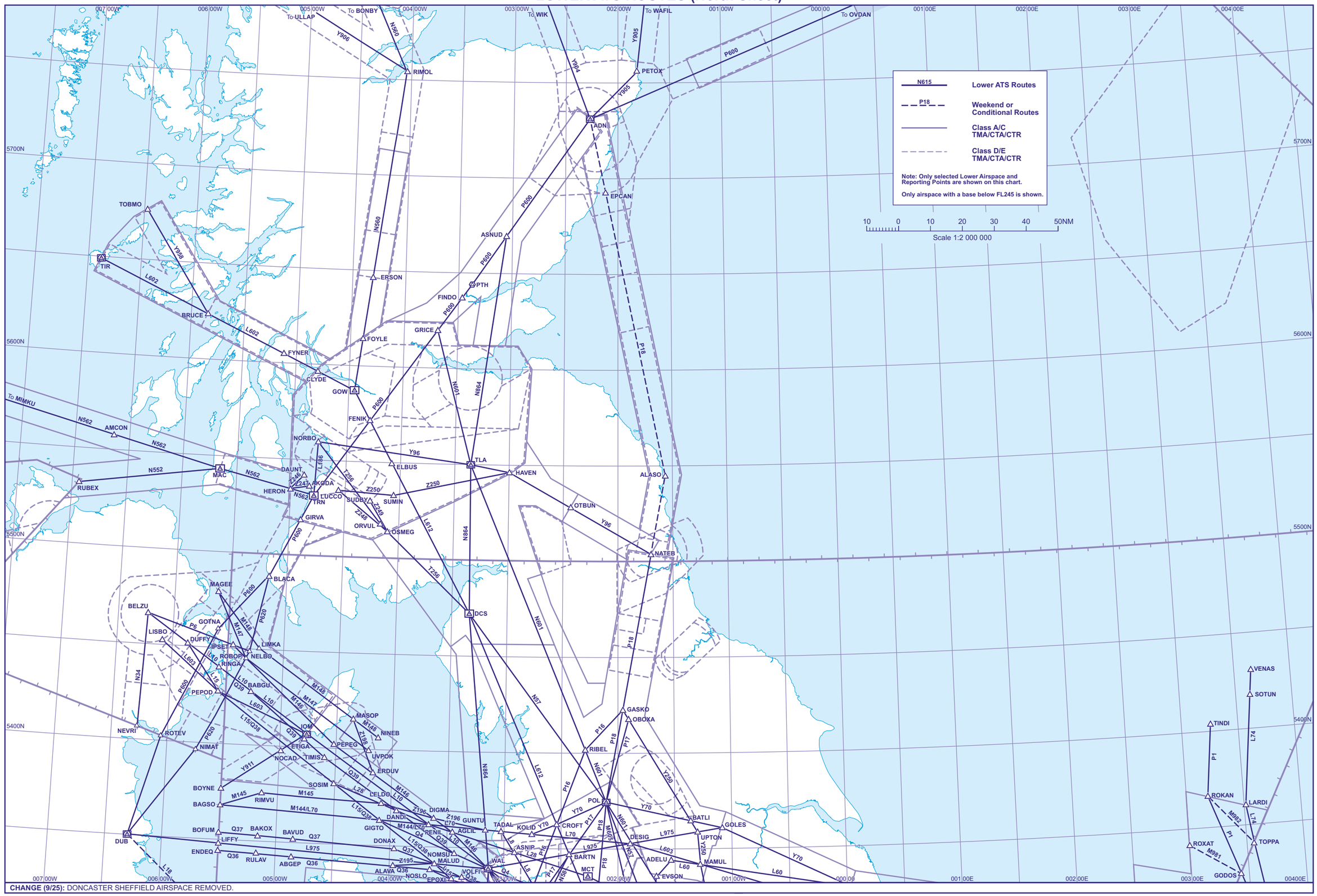
N721

LOWER ATS ROUTES (North Sheet)



CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

UPPER AIRSPACE CONTROL AREA, FREE ROUTE AIRSPACE (FRA) AND UPPER ATS ROUTES

AERONAUTICAL INFORMATION OUTSIDE THE AREA OF RESPONSIBILITY OF UK AIS SHOULD BE CHECKED AGAINST THE AERONAUTICAL INFORMATION PRODUCTS RELEVANT FOR THE AREA. ADDITIONAL GUIDANCE IS PROVIDED IN UK AIP GEN 3.1 PARAGRAPH 2.

AERONAUTICAL INFORMATION OUTSIDE THE AREA OF RESPONSIBILITY OF UK AIS SHOULD BE CHECKED AGAINST THE AERONAUTICAL INFORMATION PRODUCTS RELEVANT FOR THE AREA. ADDITIONAL GUIDANCE IS PROVIDED IN UK AIP GEN 3.1 PARAGRAPH 2.

AERONAUTICAL INFORMATION OUTSIDE THE AREA OF RESPONSIBILITY OF UK AIS SHOULD BE CHECKED AGAINST THE AERONAUTICAL INFORMATION PRODUCTS RELEVANT FOR THE AREA. ADDITIONAL GUIDANCE IS PROVIDED IN UK AIP GEN 3.1 PARAGRAPH 2.

AERONAUTICAL INFORMATION OUTSIDE THE AREA OF RESPONSIBILITY OF UK AIS SHOULD BE CHECKED AGAINST THE AERONAUTICAL INFORMATION PRODUCTS RELEVANT FOR THE AREA. ADDITIONAL GUIDANCE IS PROVIDED IN UK AIP GEN 3.1 PARAGRAPH 2.

- Military Mandatory Radar Service Area (MRSA)
- North Sea Reduced Co-ordination Area (NS RCA)
- NPZ
- Upper ATS Routes
- Weekend or Conditional Routes
- Class A/C TMA/CTA/CTR
- Military Training Area (for details see ENR 5-2)
- Temporary reserved Areas (Gliding) (TRA(G))
- Cross Boarder Free Route
- FRA Boundary
- (A) FRA Arrival Connecting Point
- (D) FRA Departure Connecting Point
- (E) FRA Horizontal Entry Point
- (I) FRA Intermediate Point
- (X) FRA Horizontal Exit Point

Note: Only Airspace at FL245 and above is shown.

*NDB HEN and NDB WOD are depicted as functioning NDBs, however the NDBs are not required for en-route navigational purposes.

CHANGE (10/25): OCTIZ RENAMED TO ORZEB, EDITORIAL.
AERO INFO DATE 27 JUN 25

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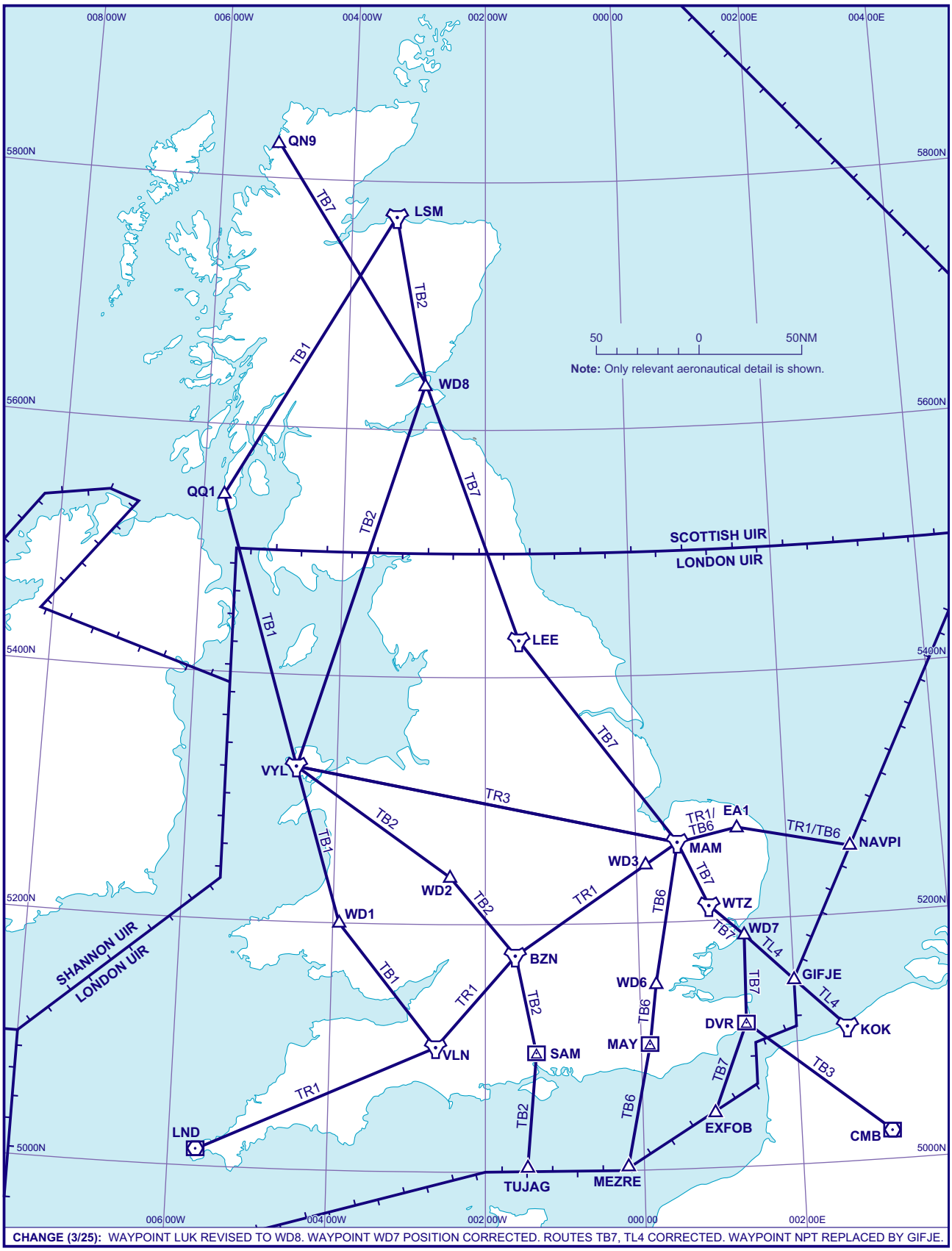
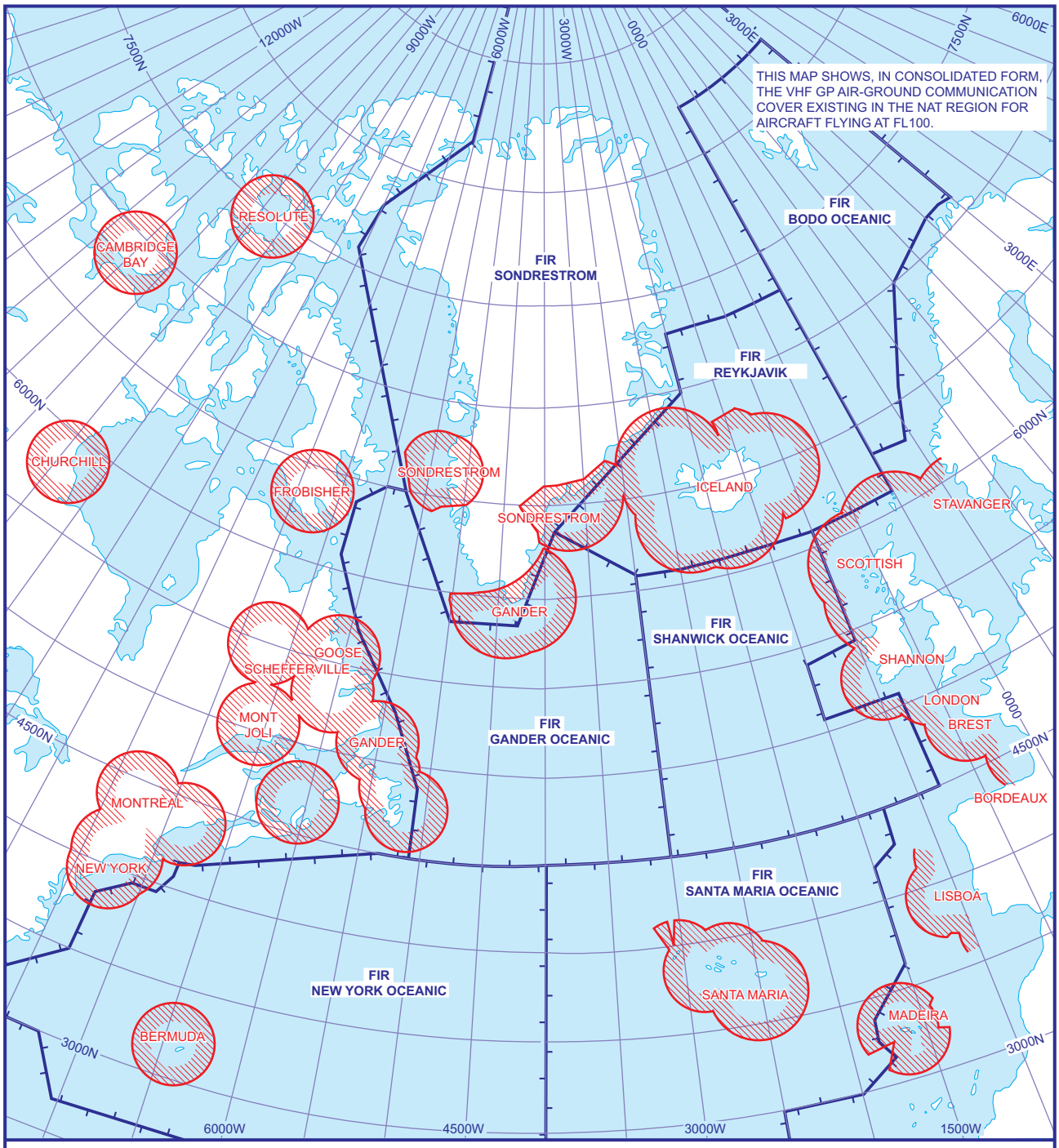
UPPER AIRSPACE MILITARY TACAN ROUTE SYSTEM



CHANGE (3/25): WAYPOINT LUK REVISED TO WD8. WAYPOINT WD7 POSITION CORRECTED. ROUTES TB7, TL4 CORRECTED. WAYPOINT NPT REPLACED BY GIFJE.

AERO INFO DATE 20 DEC 24

VHF GP AIR-GROUND COMMUNICATION COVER EXISTING IN THE NAT REGION AT FL100



NOTES

1. The VHF cover shown in the transition area between the NAT and the EUR Regions has only been shown to complete the picture of the communication cover. The VHF air-ground communication stations at Stavanger, Scottish, London, Brest, Bordeaux and Lisboa do not form part of the communication system serving the NAT Region.

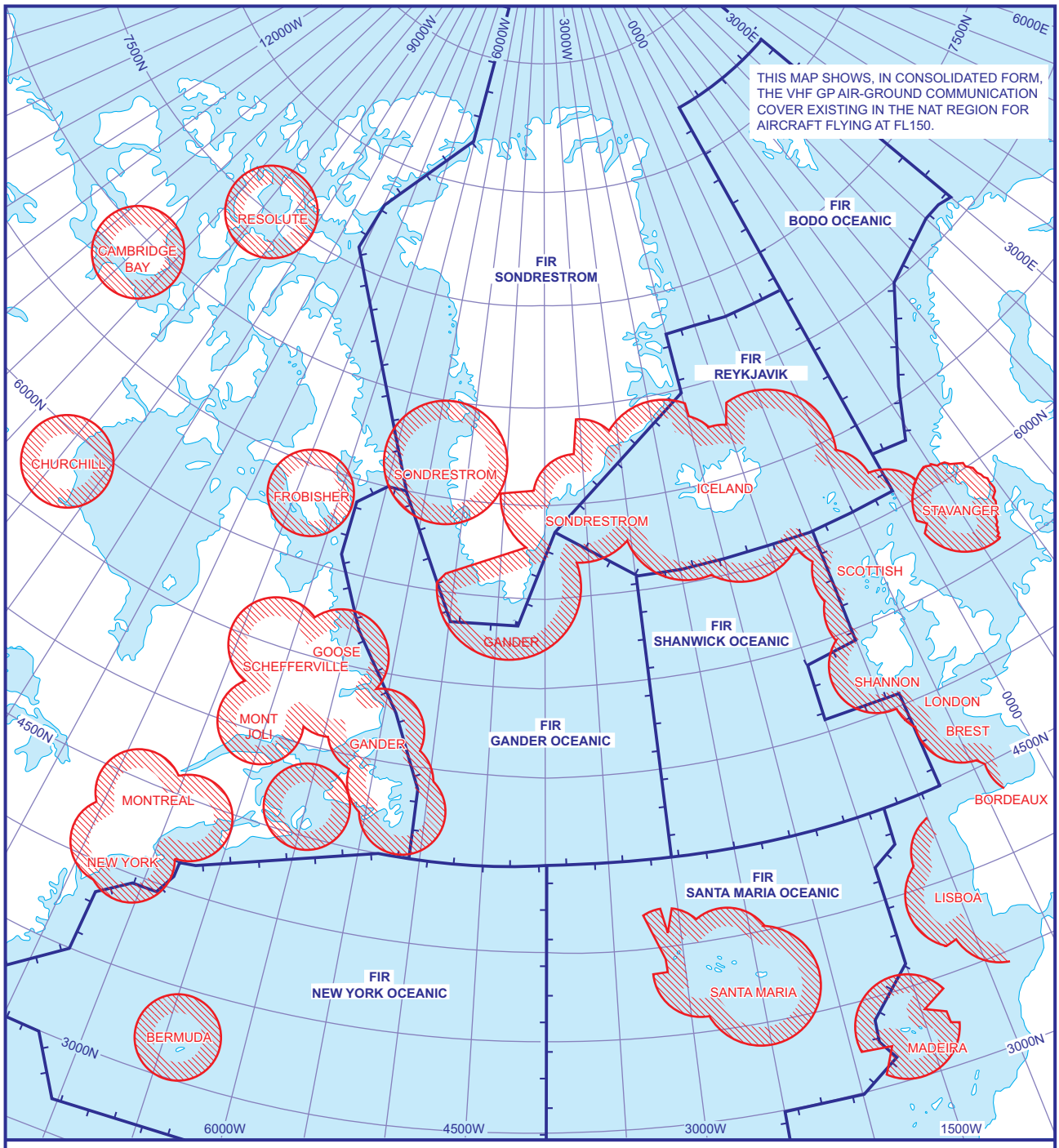
2. The VHF cover shown provided by the Qaqatoqaq and Kulusuk stations in Greenland (Sondrestrom) serves Sondrestrom FIC only (below FL195).

CHANGE (9/22): BODO OCEANIC FIR REVISED.

AERO INFO DATE 28 JUN 22

ENR 6-73

VHF GP AIR-GROUND COMMUNICATION COVER EXISTING IN THE NAT REGION AT FL150



NOTES

1. The VHF cover shown in the transition area between the NAT and the EUR Regions has only been shown to complete the picture of the communication cover. The VHF air-ground communication stations at Stavanger, Scottish, London, Brest, Bordeaux and Lisboa do not form part of the communication system serving the NAT Region.

2. The VHF cover shown provided by the Qaqatoqaq and Kulusuk stations in Greenland (Sondrestrom) serves Sondrestrom FIC only (below FL195).

CHANGE (9/22): BODO OCEANIC FIR REVISED.

AERO INFO DATE 28 JUN 22

CHART OF UNITED KINGDOM AIRSPACE RESTRICTIONS AND HAZARDOUS AREAS

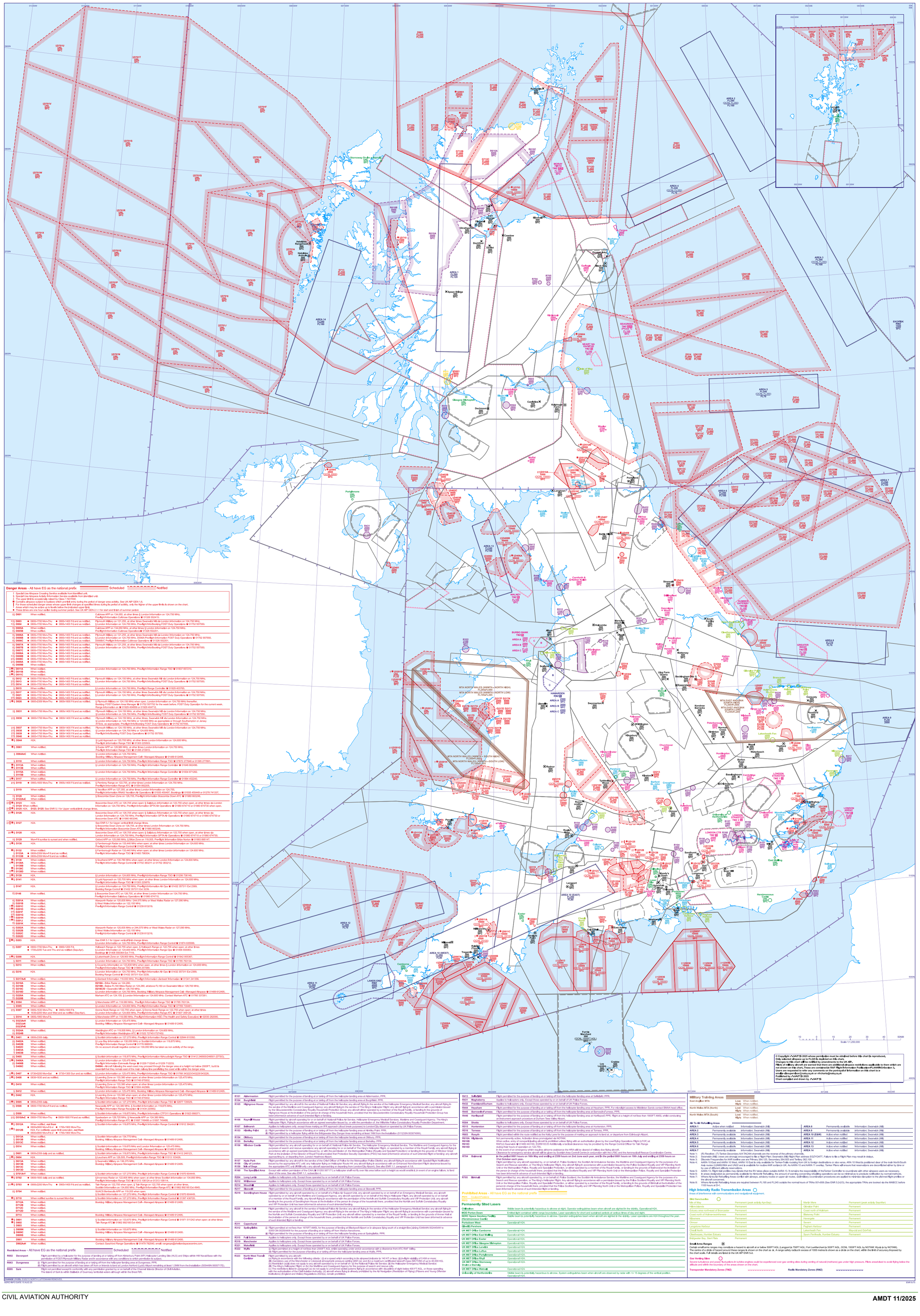

AREA 1 FL260 FL129
AREA 2 FL290 (OCNL FL350) FL100
AREA 3 FL290 (OCNL FL350) FL100
AREA 4 FL240 (OCNL FL350) FL70
AREA 5 FL240 (OCNL FL350) FL70
AREA 6 FL100
AREA 7 FL290 FL100
AREA 8 FL170 FL70
AREA 9 FL50 3000
AREA 10 (EAST) FL260 FL50
AREA 11 FL200 FL100
AREA 12 FL280 FL70
AREA 13 FL240 FL100
AREA 14 FL245 FL100
AREA 15 (WEST) FL260 FL80
BURBO BANK TMZ
AREA A 3500 SFC
AREA B 4000 SFC
AREA C FL45 SFC
HAWARDEN RMZ
AREA A 3500 SFC
AREA B 3000 SFC
AREA C 4500 SFC
MTA NORTH WALES (NWMTA = NORTH HIGH) FL285-FL460
MTA NORTH WALES (NWMTA = NORTH LOW) FL195-FL245
MTA NORTH WALES (NWMTA = SOUTH HIGH) FL285-FL460
MTA NORTH WALES (NWMTA = SOUTH LOW) FL195-FL245
MTA EAST ANGLIAN (EAMTA HIGH) FL285-FL460
MTA EAST ANGLIAN (EAMTA LOW) FL245-FL285
WALNEY TMZ FL100 SFC
SEAGREEN TMZ (Phase 1) FL100 SFC
NEART NA GAOITHE TMZ FL100 SFC
MORAY FIRTH TMZ FL100 SFC
GREATER WASH TMZ FL100 SFC
LONDON STANSTED TMZ 1
LONDON STANSTED TMZ 2
LONDON CTR R160 TMZ
THUMBER GATEWAY TMZ
NUMBER GATEWAY TMZ
EKOFEBIK RMZ 1500 SFC
Stornoway Drum a Starraig
Glasgow Bishopton
Portglenone
Dechmont
Castlelaw
Kelhoprow Farm
Carnwath
Moffat
Woolfaston
Longtown
Spadeadam
Pontsland
Boulmer
Woodhall Spa
Sandtoft
Skelton
Sandale
Battle Hill
Bishop Auckland
Lee Moor
Drumgelloch
Gallgate
Black Dog
Buchanan
Kirkbride
Kirkcolm
Ailsa Craig
Ailsa Craig Lighthouse
Ailsa Craig Tower
Ailsa Craig Trig
Ailsa Craig Wind Farm
Ailsa Craig Wind Farm Met Mast
Ailsa Craig Wind Farm Met Mast 2
Ailsa Craig Wind Farm Met Mast 3
Ailsa Craig Wind Farm Met Mast 4
Ailsa Craig Wind Farm Met Mast 5
Ailsa Craig Wind Farm Met Mast 6
Ailsa Craig Wind Farm Met Mast

CHART OF UNITED KINGDOM AREAS OF INTENSE AIR ACTIVITY (AIAA) AND AERIAL TACTICS AREAS (ATA)

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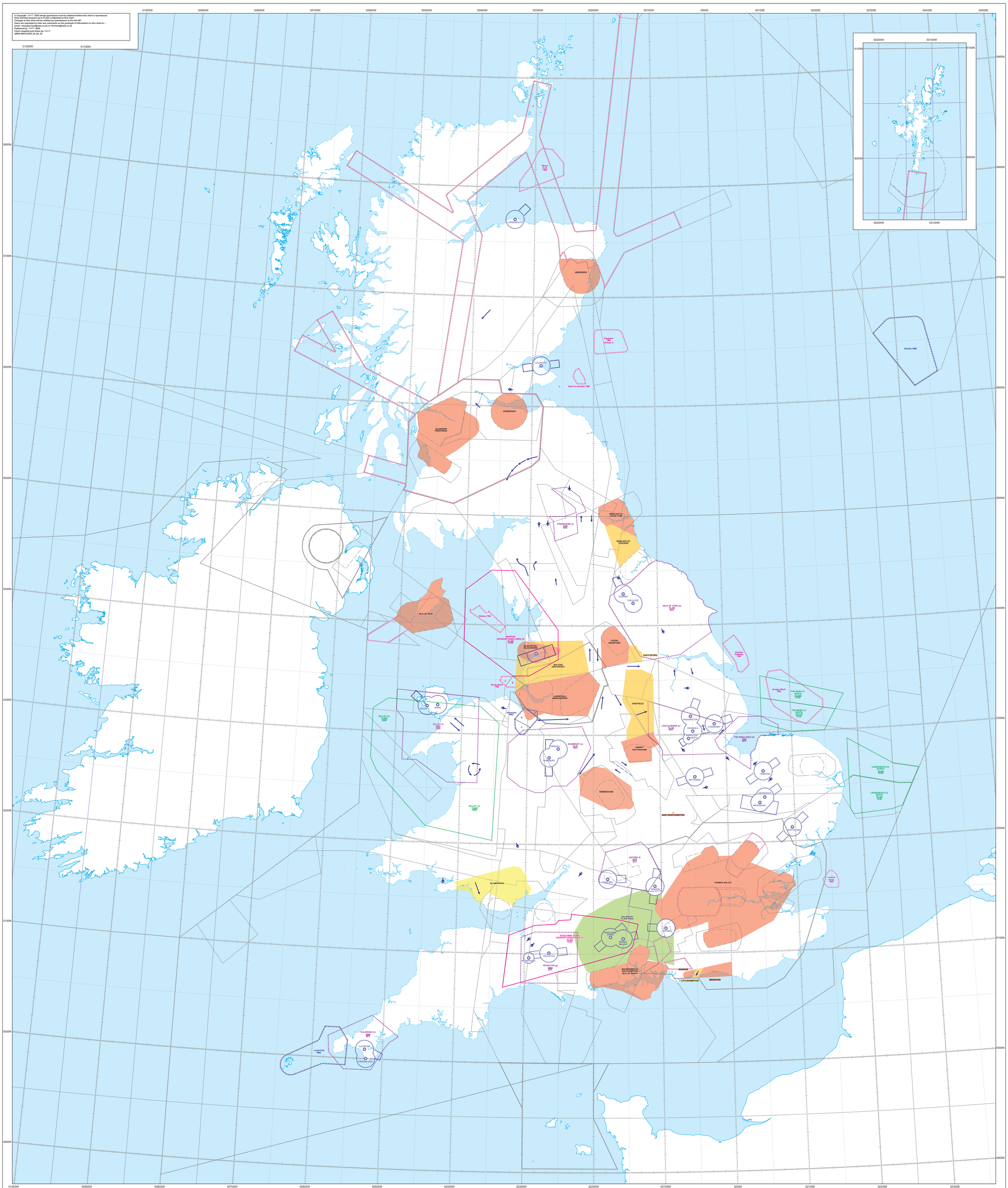


Areas of Intense Air Activity

AIAAs are defined as: 'An airspace within which aircraft, singly or in combination with others, regularly participate in unusual manoeuvres'. Pilots of non-participating aircraft who are unable to avoid these areas are strongly advised to make use of a radar service.

a. SPADEADAM	× Mon-Thu 0900-1700 (0800-1600) and Fri 0900-1600 (0800-1500).	SUACS from Spadeadam on 128.725 MHz. SUAAIS from Newcastle on 124.380 MHz .
b. VALE OF YORK	× Mon-Fri 0900-1700 (0800-1600).	LARS from Leeming ATC on 133.380.
c. LINCOLNSHIRE	× Mon-Fri 0900-1700 (0800-1600).	LARS from Waddington ATC on 119.505 MHz and Coningsby ATC on 119.205 MHz.
d. THE WASH AREA	× Mon-Thu 0900-1700 (0800-1600) and Fri 0900-1500 (0800-1400).	LARS from Marham ATC on 124.155, Coningsby ATC on 119.205 MHz and Waddington ATC on 119.505 MHz.
e. SHAWBURY*	× Mon-Thu 0700-0130 (0600-0030) and Fri 0700-1700 (0600-1600).	LARS from Shawbury ATC on 133.155.
f. OXFORD	Permanently active.	Brize Norton ATC on 124.280.
g. YEOVILTON*	× Mon-Thu 0830-1700 (0730-1600) and Fri 0830-1600 (0730-1500).	LARS from Yeovilton ATC on 127.355. Note: For aircraft in transit south of a line east to west through Dorchester, a LARS is available from Plymouth Military Radar on 124.150 MHz but to avoid interference pilots should contact Plymouth Military south of 511000N.
h. CULDROSE*	× Mon-Thu 0830-1700 (0730-1600) and. Fri 0830-1630 (0730-1530).	LARS from Culdrose ATC on 134.055.
i. VALLEY	× Mon- Thu 0800-1800 (0700-1700) and Fri 0800-1700 (0700-1600).	Contact Valley ATC or London Radar.

× Peak activity takes place

See UK AIP ENR 5.2 for details of AIAAs.

***Within these areas, night operations may be conducted by aircraft using reduced navigation and/or anti-collision lights.**

Military Low Flying

Military low flying occurs in most parts of the UK at any height up to 2000 feet above the surface. However, the greatest concentration is between surface and 1000 feet and civil pilots should avoid flying in that height band whenever possible.

Military aircraft are considered low flying when:

a. Fixed wing aircraft except light propeller-driven aircraft, are flying below 2000 feet above the surface
b. Light propeller-driven aircraft and helicopters are flying below 500 feet above the surface. (UK AIP ENR 1.1)

Military Aerodrome Traffic Zones (MATZs)

Have the following vertical limits: SFC to 3000FT AAL within the circle and 1000FT AAL to 3000FT AAL within the stub. Zone configuration may vary, often two or more MATZs are amalgamated to produce a Combined Zone (CMATZ). Controlling aerodromes show the MATZ penetration frequency to be used. See UK AIP ENR 2-2.

Directional Flow Over An Area

These arrows do not indicate a particular route, and are meant to show the general direction of flight in an area.

Directional Flow Through Choke Point

These symbols are aligned to the direction of flight. Where there is bi-directional flow through a choke point, aircraft will route in accordance with the depicted symbols.

The Low Flying System of Directional Flow does not apply during weekends, UK Public Holidays and hours of darkness.

Warning
During military exercises, Directional Flow may be changed for operational reasons during the period of the exercise. Such changes will be notified in the Temporary Navigation Warning giving exercise details. Refer to the AIC for details of the UK Military Low Flying System.

Avoidance Areas

a. In the Avoidance Areas, military low flying does not normally take place unless the flights are in connection with an airfield located within such an area.

b. Military low flying does not normally take place within Class A and Class C airspace.

Where AIAAs and the Avoidance Areas overlap, military aircraft will not normally operate below 2000 feet except in connection with an airfield situated in the area.

Transit Areas

Military aircraft are not permitted to fly in Transit Areas below 1000 feet above the surface except helicopters and light propeller driven aircraft. These areas are designed to permit the easy transit of military aircraft between one low flying area and another.

Aerial Tactics Areas

ATAs are defined as: 'An airspace of defined dimensions designated for air combat training, within which high energy manoeuvres are regularly practised by aircraft formations'. Pilots of non-participating aircraft who are unable to avoid these areas are strongly advised to make use of a radar service.

Autonomous operations are only permitted within ATAs above FL195 when the overlying TRA is active.

1. WASH	× Mon-Thu 0700-2300 (0600-2200) and Fri 0700-1700 (0600-1600).	Swanwick Mil.
2. LAKENHEATH	× Mon-Thu 0700-2300 (0600-2200) and Fri 0700-1700 (0600-1600).	Swanwick Mil.
3. VALLEY	× Mon-Thu 0800-1800 (0700-1700); Fri 0800-1700 (0700-1600).	RAF Valley ATC or Swanwick Mil.

× Peak activity takes place

See UK AIP ENR 5.2 for details of ATAs.

The Salisbury Plain Area

The Salisbury Plain Area is an area of high activity used primarily by helicopters, although low flying civil and military fixed-wing aircraft operate from time to time in this airspace.

Advisory Radio Area

1. BOSCOMBE DOWN	Mon-Fri 0930-1730 (0830-1630).	Boscombe Down on 126.705

Test flight activity within this area often requires pilots to fly profiles which limit their ability to manoeuvre their aircraft in compliance with the Rules of The Air. Such flights will receive a radar service from Boscombe Down or the Swanwick Military Special Tasks Cell.

Pilots of other aircraft flying in the area are strongly advised to call Boscombe on 126.705 who provide pilots with information on any relevant test flight activity and, if requested, advice on arranging a detour area, or provision of an Air Traffic Service subject to controller workload.

2. WARTON	Mon-Thu 0730-1900 (0630-1800) and Fri 0730-1700 (0630-1600).	Warton on 129.530 MHz.

Test flight activity within this area often requires pilots to fly profiles which limit their ability to manoeuvre their aircraft in compliance with the Rules of The Air. Such flights will receive a radar service from Warton.

Pilots of other aircraft flying in the area are strongly advised to call Warton on 129.530 MHz who provide pilots with information on any relevant test flight activity and, if requested, advice on arranging a detour area, or provision of an Air Traffic Service subject to controller workload.

See UK AIP ENR 5.2 for details of ARA.

Low Level Civil Aircraft Notification Procedure (CANP)

Some civil aircraft operators have a requirement to fly at very low heights when carrying out authorised aerial work; the majority of these flights take place at or below 1000 feet above the surface. These operators are reminded that the CANP is designed to enhance flight safety in the lower airspace and they are strongly recommended to notify details of their operations in accordance with the UK AIP ENR 1.10. E-mail notification is preferred for CANP requests as this allows the LFC to E-mail or telephone confirmation of E-mail and issue a reference number to the aircraft operating authority. Contact details are as follows:

Low Flying Co-ord (LFC) at RAF (U) Swanwick.

Phone: 0800-515544 or 01489-443100.
Email: swk-lfofflfbc@mod.gov.uk

The types of air activity that should be notified include:

a. COMMERCIAL AIR ACTIVITIES
Aerial crop spraying (all agricultural work carried out by aircraft), underslung aerial load lifting, aerial photography/filming, aerial surveys/air surveillance.

b. RECREATIONAL AERIAL ACTIVITIES
Gliders, hang gliders, para gliders, free-flight balloons, microlight aircraft of model aircraft - where 5 or more are operating from a site not listed in the UK AIP for such activity, or are operating outside the hours published in the UK AIP.

c. OTHER AERIAL ACTIVITIES
Tethered/captive balloons to a height greater than 200 feet (60 metres) AGL, kite flying - 5 or more kites from a specified site to a height greater than 200 feet (60 metres) AGL, aircraft operations from water, any other aerial activity likely to create an exceptional concentration of aircraft at a site not listed in the UK AIP.

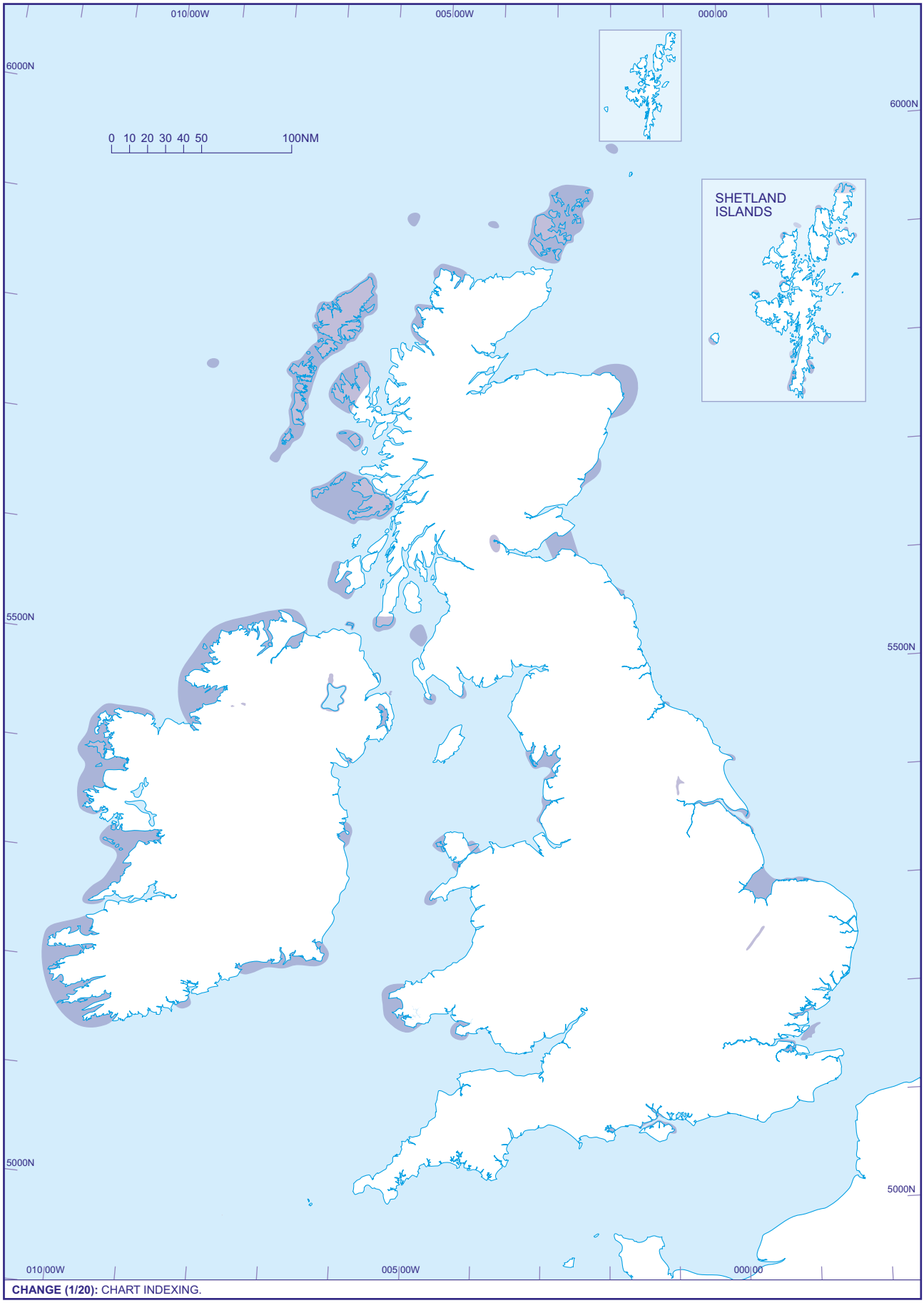
Transponder Mandatory Zones (TMZ)

Radio Mandatory Zones (RMZ)

CHANGE (10/25): AIAA LINCOLSHIRE/ WASH CONINGSBY/WADDINGTON FREQUENCIES REVISED.

INTENTIONALLY BLANK

BIRD CONCENTRATION AREAS MARCH - JULY

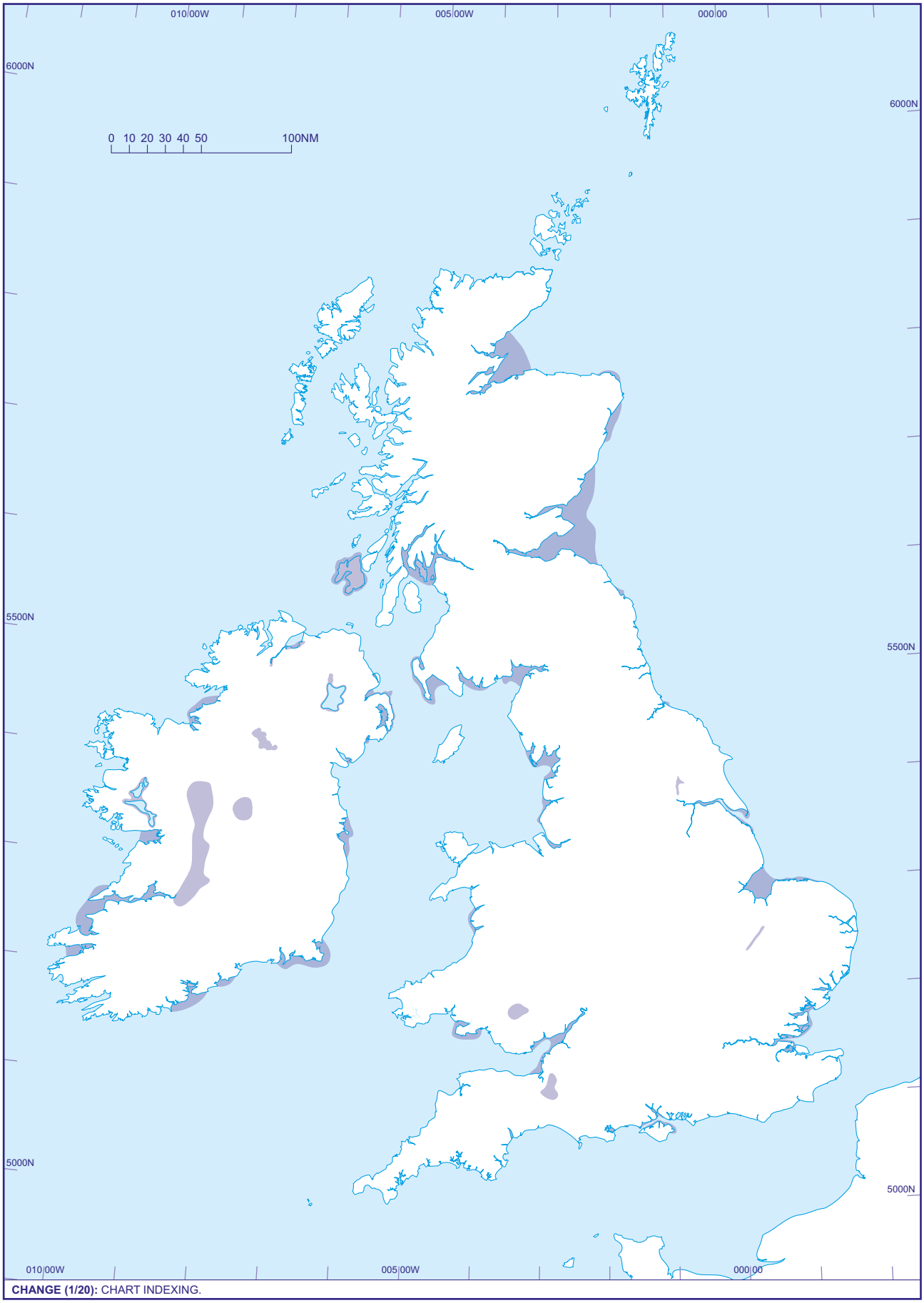


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 25 SEP 19

ENR 6-78

BIRD CONCENTRATION AREAS OCTOBER - MARCH

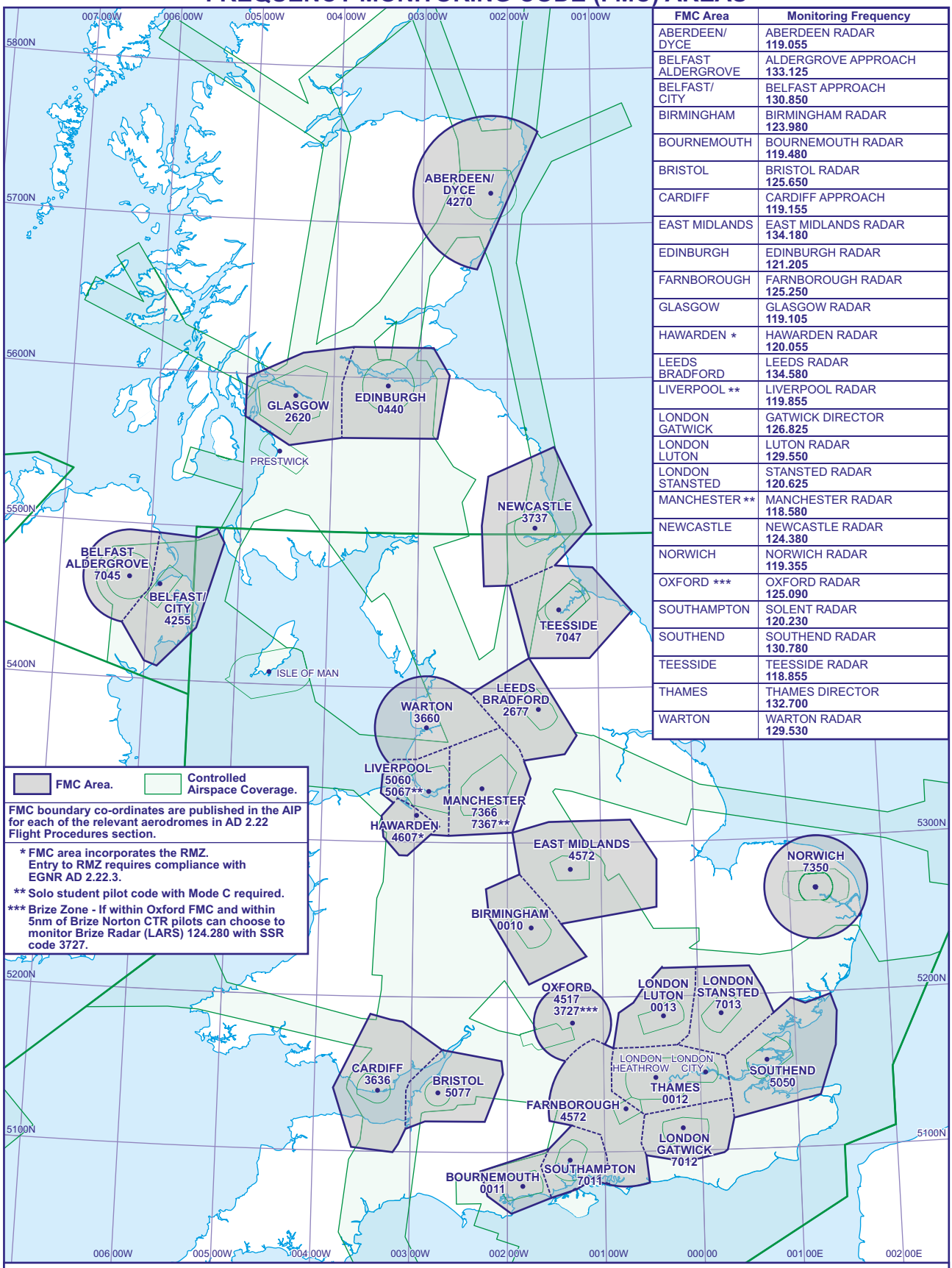


CHANGE (1/20): CHART INDEXING.

AERO INFO DATE 25 SEP 19

ENR 6-79

FREQUENCY MONITORING CODE (FMC) AREAS



FMC Area	Monitoring Frequency
ABERDEEN/ DYCE	ABERDEEN RADAR **119.055**
BELFAST ALDERGROVE	ALDERGROVE APPROACH **133.125**
BELFAST/ CITY	BELFAST APPROACH **130.850**
BIRMINGHAM	BIRMINGHAM RADAR **123.980**
BOURNEMOUTH	BOURNEMOUTH RADAR **119.480**
BRISTOL	BRISTOL RADAR **125.650**
CARDIFF	CARDIFF APPROACH **119.155**
EAST MIDLANDS	EAST MIDLANDS RADAR **134.180**
EDINBURGH	EDINBURGH RADAR **121.205**
FARNBOROUGH	FARNBOROUGH RADAR **125.250**
GLASGOW	GLASGOW RADAR **119.105**
HAWARDEN *	HAWARDEN RADAR **120.055**
LEEDS BRADFORD	LEEDS RADAR **134.580**
LIVERPOOL **	LIVERPOOL RADAR **119.855**
LONDON GATWICK	GATWICK DIRECTOR **126.825**
LONDON LUTON	LUTON RADAR **129.550**
LONDON STANSTED	STANSTED RADAR **120.625**
MANCHESTER **	MANCHESTER RADAR **118.580**
NEWCASTLE	NEWCASTLE RADAR **124.380**
NORWICH	NORWICH RADAR **119.355**
OXFORD ***	OXFORD RADAR **125.090**
SOUTHAMPTON	SOLENT RADAR **120.230**
SOUTHEND	SOUTHEND RADAR **130.780**
TEESSIDE	TEESSIDE RADAR **118.855**
THAMES	THAMES DIRECTOR **132.700**
WARTON	WARTON RADAR **129.530**

1. Pilots operating in the vicinity of, but intending to remain outside controlled airspace within the areas defined above and maintaining a listening watch only on appropriate monitoring frequency are encouraged to select the appropriate SSR code.
2. Selection of SSR code does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances. Pilots remain responsible for their own navigation, separation and terrain clearance and are expected to remain clear of the controlled airspace at all times.
3. Whilst squawking the code pilots should be aware that ATC may make blind transmissions in order to ascertain a particular aircrafts intentions/route.
4. When a pilot ceases to maintain a listening watch, the code shall be deselected.

CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED. TEESSIDE FMC AREA ADDED.

AERO INFO DATE 24 JUN 25

UK AREA MINIMUM ALTITUDES (AMA)

USERS ARE REMINDED THAT AERONAUTICAL INFORMATION OUTSIDE THE AREA OF RESPONSIBILITY OF UK AIS SHOULD BE CHECKED AGAINST THE AERONAUTICAL INFORMATION PRODUCTS RELEVANT FOR THE AREA. ADDITIONAL GUIDANCE IS PROVIDED IN UK AIP GEN 3.1 PARAGRAPH 2.



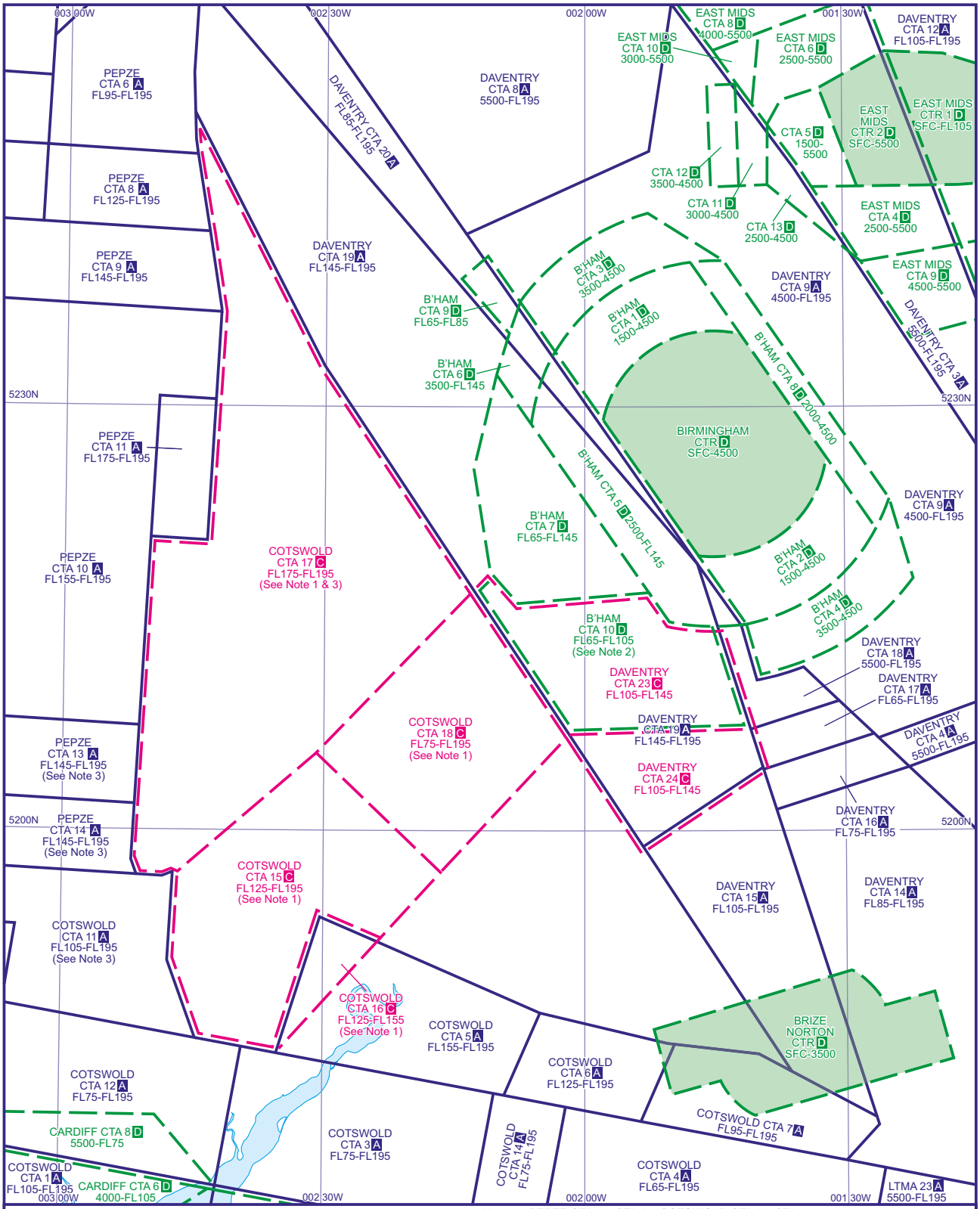
USERS ARE REMINDED THAT AERONAUTICAL INFORMATION OUTSIDE THE AREA OF RESPONSIBILITY OF UK AIS SHOULD BE CHECKED AGAINST THE AERONAUTICAL INFORMATION PRODUCTS RELEVANT FOR THE AREA. ADDITIONAL GUIDANCE IS PROVIDED IN UK AIP GEN 3.1 PARAGRAPH 2.

CHANGE (10/25): AMA JERSEY REVISED.

AERO INFO DATE 28 JUL 25

I

COTSWOLD (SHAWBURY TRIANGLE) FLEXIBLE USE AIRSPACE (FUA)



Note 1 COTSWOLD CTA 15, CTA 16, CTA 17 & CTA 18.
Flexible use of airspace.
Class C between hours 1700-0900 (1600-0800) Monday-Thursday and 1700 (1600) Friday (or the day preceding a PH) to 0900 (0800) Monday (or the day following a PH).
Outside the published hours of service the airspace reverts to Class G.
COTSWOLD CTA 15, CTA 16, CTA 18
Access restrictions may apply during NOTAM activation of EGD218.

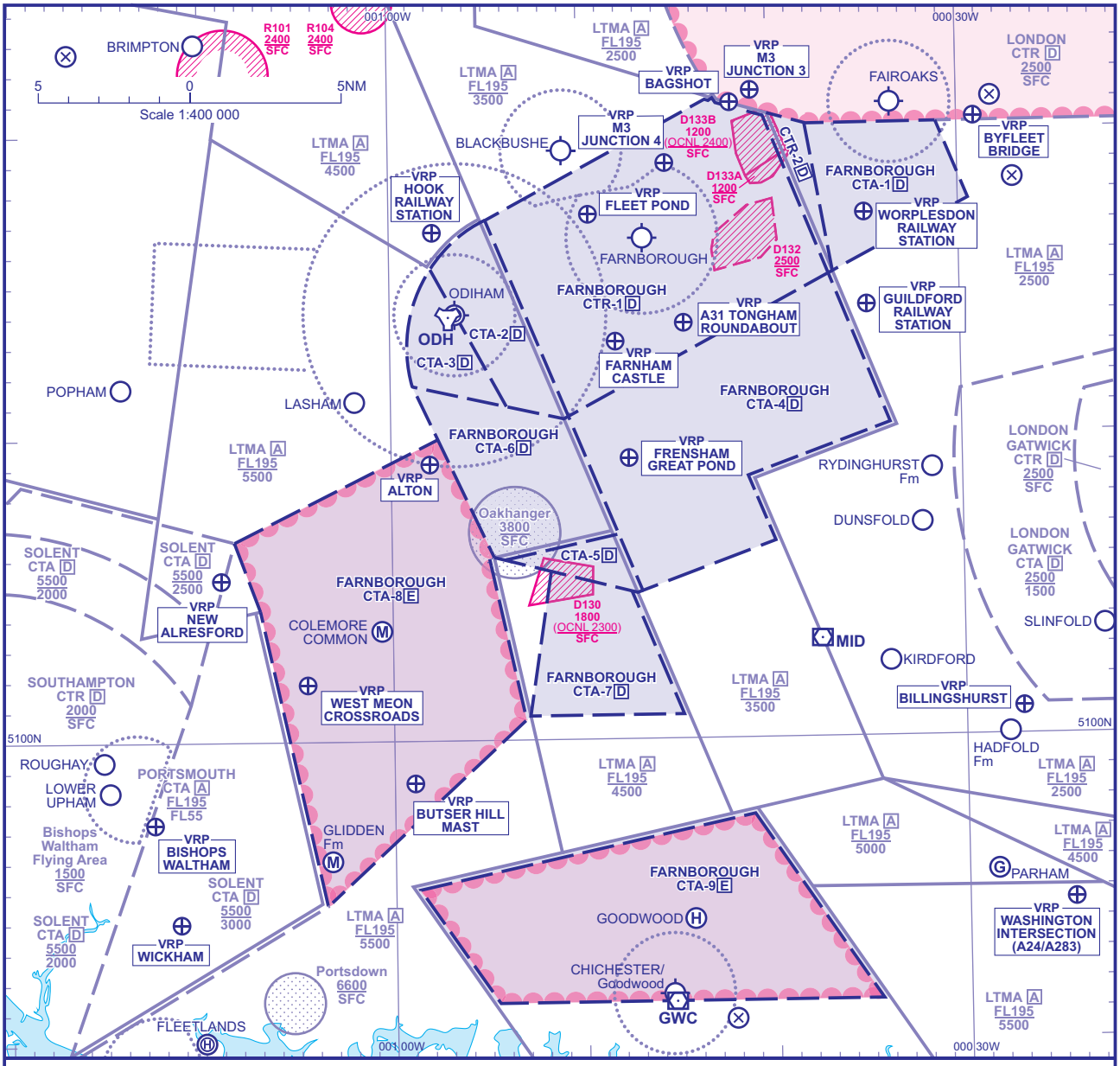
Note 2 BIRMINGHAM CTA 10.
Flexible use of airspace.
Class D between hours 1700-0900 (1600-0800) Monday-Thursday and 1700 (1600) Friday (or the day preceding a PH) to 0900 (0800) Monday (or the day following a PH).
Outside the published hours of service the airspace reverts to Class G.

Note 3 PEPZE CTA 13, CTA 14, COTSWOLD CTA 11, CTA 17
The following two areas, between the CTAs base level and FL 195, and referred to as the OSSEP Gliding Areas, are notified for the purposes of SERA.6001(a) Classification of Airspaces in accordance with conditions established in a Letter of Agreement (LOA) between the British Gliding Association (BGA) and London ACC, Swanwick Mil and Cardiff ATC:
MADLEY Box great circle lines joining: 520734N 0025744W - 520712N 0024624W - 515640N 0024718W - 515701N 0025836W - 520734N 0025744W.
RAGLAN Box great circle lines joining: 515701N 0025836W - 515640N 0024718W - 515040N 0024748W - 515153N 0025901W - 515701N 0025836W.
During periods of activation of these areas ATC will direct aircraft to remain clear of the active area.

CHANGE (5/24): NOTE 1 REVISED.

AERO INFO DATE 22 FEB 24
ENR 6-82

FARNBOROUGH CTR & CTA



ATS AIRSPACE VERTICAL LIMITS Controlled airspace with a base in excess of **5500**ALT is not shown.

FARNBOROUGH

CTR-1	D	3500 / SFC	CTA-1	D	2500 / 2000	CTA-6	D	5500 / 2500
CTR-2	D	2500 / SFC	CTA-2	D	5500 / 1500	CTA-7	D	4500 / 3500
			CTA-3	D	5500 / 2000	CTA-8	E TMZ	5500 / 4500
			CTA-4	D	3500 / 2500	CTA-9	E TMZ	FL65 / 5500
			CTA-5	D	4500 / 2500			

LATERAL LIMITS

Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

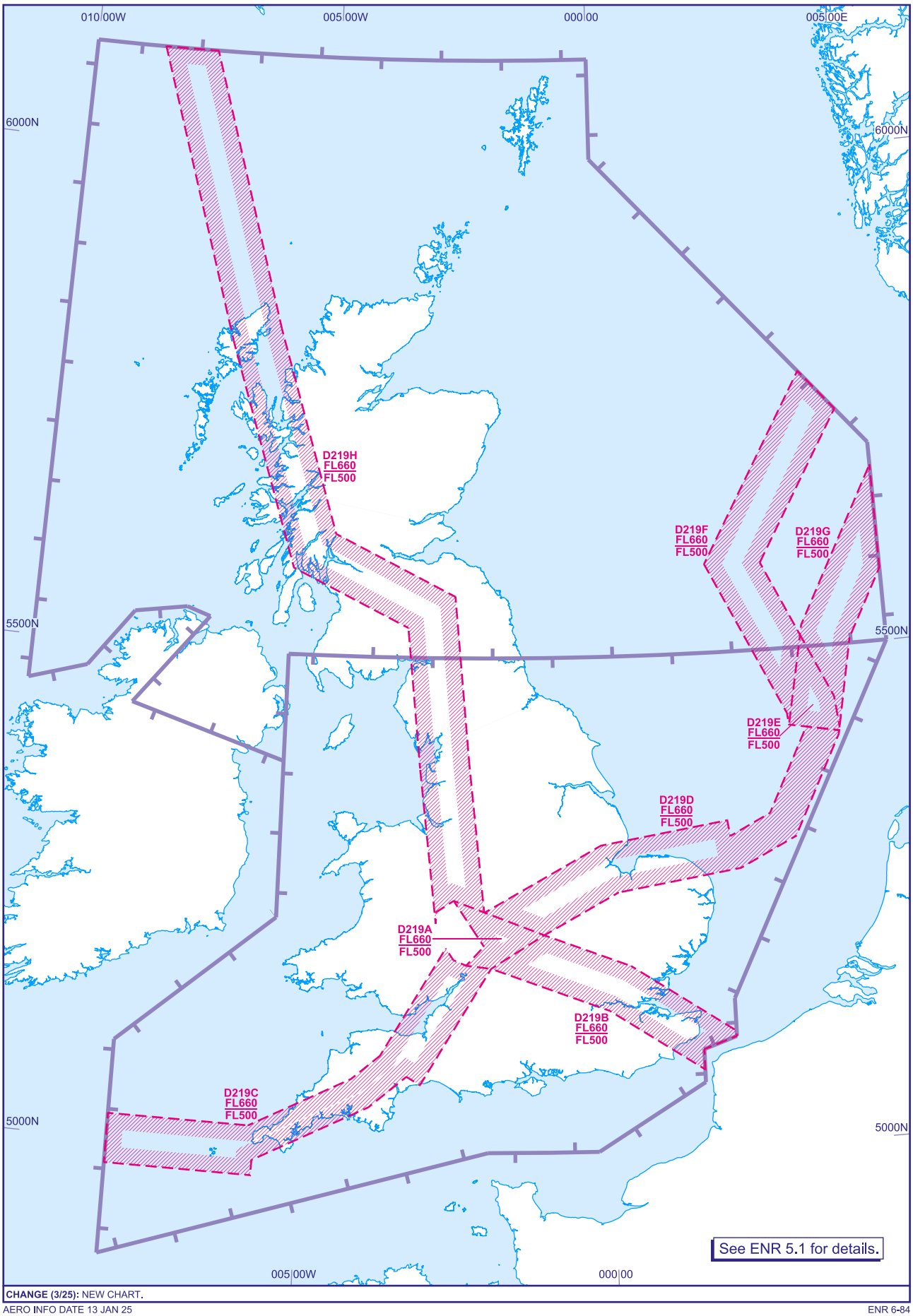
For hours of operation see ENR 2.1.

CHANGE (13/23): OCK VOR/DME REMOVED.

AERO INFO DATE 04 OCT 23

ENR 6-83

RPAS TRANSIT DANGER AREAS



CHANGE (3/25): NEW CHART.

AERO INFO DATE 13 JAN 25

ENR 6-84

PART 3 AERODROMES (AD)

AD 0

When applicable the following chapters are left blank: AD 0.2, AD 0.3, AD 0.4, AD 0.5, AD 0.6

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AD 1.5 STATUS OF CERTIFICATION OF AERODROMES ..... **AD 1.5-1**

AD 2 Aerodromes

ABERDEEN/DYCE	EGPD
ALDERNEY	EGJA
ANDREWSFIELD	EGSL
BARRA	EGPR
BELFAST ALDERGROVE	EGAA
BELFAST/CITY	EGAC
BENBECULA	EGPL
BIGGIN HILL	EGKB
BIRMINGHAM	EGBB
BLACKBUSHE	EGLK
BLACKPOOL	EGNH
BOURNEMOUTH	EGHH
BRISTOL	EGGD
CAERNARFON	EGCK
CAMBRIDGE	EGSC
CAMPBELTOWN	EGEC
CARDIFF	EGFF
CHALGROVE	EGLJ
CHICHESTER/GOODWOOD	EGHR
COLL	EGEL
COLONSAY	EGEY
COMPTON ABBAS	EGHA
COVENTRY	EGBE
CRANFIELD	EGTC
CUMBERNAULD	EGPG
DENHAM	EGLD
DERBY	EGBD
DUNDEE	EGPN
DUNKESWELL	EGTU
DUXFORD	EGSU
EARLS COLNE	EGSR
EAST MIDLANDS	EGNX
EDAY	EGED
EDINBURGH	EGPH
ELSTREE	EGTR
ENNISKILLEN/ST ANGELO	EGAB
EXETER	EGTE
FAIR ISLE	EGEF
FAIROAKS	EGTF
FARNBOROUGH	EGLF
FENLAND	EGCL

GLASGOW	EGPF
GLOUCESTERSHIRE	EGBJ
GUERNSEY	EGJB
HAVERFORDWEST	EGFE
HAWARDEN	EGNR
HUMBERSIDE	EGNJ
INVERNESS	EGPE
ISLAY	EGPI
ISLE OF MAN	EGNS
JERSEY	EGJJ
KEMBLE	EGBP
KIRKWALL	EGPA
LAND'S END	EGHC
LASHENDEN/HEADCORN	EGKH
LEE-ON-SOLENT	EGHF
LEEDS BRADFORD	EGNM
LEEDS EAST	EGCM
LEICESTER	EGBG
LERWICK/TINGWALL	EGET
LIVERPOOL	EGGP
LONDON CITY	EGLC
LONDON GATWICK	EGKK
LONDON HEATHROW	EGLL
LONDON LUTON	EGGW
LONDON STANSTED	EGSS
LONDONDERRY/EGLINTON	EGAE
LYDD	EGMD
MANCHESTER	EGCC
MANCHESTER BARTON	EGCB
NETHERTHORPE	EGNF
NEWCASTLE	EGNT
NEWQUAY	EGHQ
NEWTOWNARDS	EGAD
NORTH RONALDSAY	EGEN
NORWICH	EGSH
NOTTINGHAM	EGBN
OBAN	EGEO
OLD BUCKENHAM	EGSV
OLD WARDEN	EGTH
OXFORD/KIDLINGTON	EGTK
PAPA WESTRAY	EGEP

PERTH/SCONE	EGPT
PRESTWICK	EGPK
REDHILL	EGKR
RETFORD/GAMSTON	EGNE
ROCHESTER	EGTO
SANDAY	EGES
SANDTOFT	EGCF
SCILLY ISLES/ST MARYS	EGHE
SHERBURN-IN-ELMET	EGCJ
SHOBDON	EGBS
SHOREHAM	EGKA
SLEAP	EGCV
SOUTHAMPTON	EGHI
SOUTHEND	EGMC
ST ATHAN	EGSY
STAPLEFORD	EGSG
STORNOWAY	EGPO
STRONSAY	EGER
SUMBURGH	EGPB
SWANSEA	EGFH
TATENHILL	EGBM
TEESSIDE INTERNATIONAL	EGNV
THRUXTON	EGHO
TIREE	EGPU
WALNEY	EGNL
WARTON	EGNO
WELLESBOURNE MOUNTFORD	EGBW
WELSHPOOL	EGCW
WEST WALES/ABERPORTH	EGFA
WESTRAY	EGEW
WHITE WALTHAM	EGLM
WICK	EGPC
WICKENBY	EGNW
WOLVERHAMPTON/ HALFPENNY GREEN	EGBO
WYCOMBE AIR PARK/ BOOKER	EGTB
YEOVIL/WESTLAND	EGHG

→

AD 0.1 TABLE OF CONTENTS TO PART 3 (continued)

The following information is listed for each individual aerodrome:

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AD 2.2 Aerodrome geographical and administrative data
AD 2.3 Operational hours
AD 2.4 Handling services and facilities
AD 2.5 Passenger facilities
AD 2.6 Rescue and fire fighting services
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AD 2.9 Surface movement guidance and control system and markings
AD 2.10 Aerodrome obstacles
AD 2.11 Meteorological information provided
AD 2.12 Runway physical characteristics
AD 2.13 Declared distances
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AD 2.15 Other lighting, secondary power supply
AD 2.16 Helicopter landing area
AD 2.17 Air traffic services airspace
AD 2.18 Air traffic services communication facilities
AD 2.19 Radio navigation and landing aids
AD 2.20 Local aerodrome regulations
AD 2.21 Noise abatement procedures
AD 2.22 Flight procedures
AD 2.23 Additional information
AD 2.24 Charts related to an aerodrome
AD 2.25 Visual segment surface (VSS) penetration

AD 3 Heliports

CHELTENHAM HELIPORT	EGBC	LONDON HELIPORT	EGLW	PENZANCE HELIPORT	EGHK
PORTLAND HELIPORT	EGDP	TRESCO HELIPORT	EGHT		

The following information is listed for each individual heliport:

AD 3.1 Heliport location indicator and name
AD 3.2 Heliport geographical and administrative data
AD 3.3 Operational hours
AD 3.4 Handling services and facilities
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AD 1 AERODROMES/HELIPORTS - INTRODUCTION

AD 1.1 AERODROME/HELIPORT AVAILABILITY AND CONDITIONS OF USE

1 GENERAL CONDITIONS

1.1 General Conditions under which Aerodromes/Heliports and Associated Facilities are Available for Use

1.1.1 Civil aircraft are not permitted to land at aerodromes in the United Kingdom other than those mentioned in this publication, except in cases of genuine emergency in flight or where special permission has been obtained from the aerodrome operator.

1.1.2 All values described in AD 2.2 section 5 (Magnetic Variation/Annual change) are decreasing.

1.2 Applicable ICAO Documents

1.2.1 The Standard Recommended Practices and Procedures contained in the following ICAO documents are applied with the Differences noted hereunder:

Annex 14 Volume 1	Aerodromes
Annex 14 Volume 2	Heliports
DOC 7030	Regional Supplementary Procedures
DOC 7754	ANP - EUMED Region

1.3 Prior Permission Requirements

1.3.1 There are two classes of civil aerodromes at which landings require the prior permission of the owner or the authority concerned. The persons in charge of most of these aerodromes require application for permission to land to be made by telephone prior to take-off; in cases where permission by RTF is acceptable or where application in writing is required this is indicated in AD 2 or AD 3 as appropriate.
The two classes of aerodrome are as follows:

a) Licensed Aerodrome (Ordinary Licence)

i. Prior arrangements with the person in charge are necessary as these aerodromes are licensed only for the use of the licensee or by persons specifically authorised by him.

b) Unlicensed Aerodromes

i. Prior arrangements with the owner or person in charge are necessary.
ii. Unlicensed aerodromes are not inspected by the Civil Aviation Authority.

1.3.2 Use of Government aerodromes is also subject to prior permission. (See section 2).

1.4 Availability of Ground Services

1.4.1 Details of the various ground services available at an aerodrome (ie fuel, hangarage, repair facilities, etc) may be found at AD 2 and AD 3.

1.4.2 It should be noted, however, that as some of the services are not the direct responsibility of the aerodrome management, the hours during which such services are available do not necessarily coincide with the hours during which the aerodrome is open to visiting aircraft.

1.4.3 It is the responsibility of the aircraft operator to ensure, before departure for an aerodrome, that such services are available.

1.5 Noise Abatement Requirements

1.5.1 Section 78(1) of the Civil Aviation Act 1982 enables the Secretary of State for Transport to publish a notice imposing a duty on operators of aircraft at designated aerodromes to comply, after take-off or before landing, with specified requirements for the purpose of limiting or mitigating the effect of noise and vibration connected with the taking-off or landing of aircraft. Notices under Section 78 are set out in AD 2.21 for London Gatwick, London Heathrow and London Stansted.

1.5.2 In order to ensure that NPRs continue to reflect the intended track over the ground, it is sometimes necessary to adjust the published bearings. This may be due to changes in magnetic variation or may be the result of a recalibration of a radio navigation aid.

1.6 Operational Hours

1.6.1 The hours indicated against AD 2.3/3.3 item 1 (AD/Heliport) are to be considered as the aerodrome/heliport operating hours or hours of availability unless otherwise stated. Note that revised operating hours may be notified by NOTAM.

1.6.2 All times are in UTC unless otherwise stated. Where 'SS' or 'SS+..' is shown as an alternative closing time, the aerodrome service

closes at whichever time is earlier, unless otherwise stated.

1.6.3 The commencement and cessation of the Summer Period (UTC + 1 hour) and the Winter Period (UTC) is shown at GEN 2.1.

1.7 Closure of Aerodromes

1.7.1 Pilots will not be refused permission to land or take-off at public-licensed aerodromes (AD 1.4 refers) solely because of bad weather conditions. Pilots of public and non-public transport aircraft should bear in mind, however, that the UK Air Navigation Order, requires that they do not infringe the applicable aerodrome operating minima.

1.7.2 The only circumstances in which a public-licensed aerodrome will be closed to normal air traffic during its published hours of availability are:

a) When the surface of the landing area is unfit;
b) at times and in conditions specified in NOTAM or AIP Supplements;
c) if essential aerodrome facilities are unserviceable.

1.7.3 In an emergency, pilots will be allowed to land regardless of the conditions of the aerodrome and aerodrome facilities.

1.8 Operations Outside Published Operating Hours

1.8.1 Aerodromes/Heliports may not be used outside the published hours of availability (see AD 2.3/3.3) without the prior permission of the appropriate authority. This applies not only to aerodromes of origin and destination but also to alternates.

1.8.2 Any application for operations outside published operating hours should be made to the authority controlling the aerodrome/ heliport.

1.9 Declared Distances

1.9.1 The distance shown for Take-off Run Available, Accelerate Stop Distance Available, Take-off Distance Available and Landing Distance Available in Items AD 2.13 and AD 3.13, are notified for the purposes of the Air Navigation (General) Regulations 2006 Part 3.

1.9.2 ‘Take-off Run Available' (TORA) is defined as the length of runway which is available and suitable for the ground run of an aeroplane taking-off.

1.9.3 'Accelerate-Stop Distance Available' (ASDA) is defined as the length of the declared take-off run plus the length of stopway available.

1.9.4 ‘Take-off Distance Available’ (TODA) is defined as the length of the declared take-off run plus the length of clearway available.

1.9.5 'Landing Distance Available' (LDA) is defined as the length of runway (or surface, when this is unpaved) which is available and suitable for the ground landing run of the aeroplane commencing at the landing threshold or displaced landing threshold.

1.10 Obstacles

1.10.1 For the purposes of ICAO Type C Charts, operators should assume that, in addition to the obstacles listed in the AD Section of the UK AIP and those which are shown on any ICAO Type A Charts, obstacles of up to 300 FT above ground level may exist:

a) outside the coverage of any ICAO Type A Chart; and
b) beyond 4 NM from the Aerodrome Reference Point.

1.10.2 Information for licensed aerodromes is limited to significant obstacles and the lists are not comprehensive, they do not necessarily include all shadowed obstacles.

1.10.3 To determine the existence of obstacles 400 FT or more above aerodrome level, operators should thus combine the above advice on the possible existence of obstacles with the detailed contour information which is given on the Ordnance Survey 1:50 000 Maps; relating the outcome to the published aerodrome elevation.

1.11 Visual Ground Aids

1.11.1 Details of visual ground aids, lighting, runway markings and self manoeuvring stand markings are given in Civil Aviation Publication CAP 637.

1.12 Runway Utilisation

1.12.1 Irrespective of the runway direction selected by ATC, or notified by FIS Operators, A/G communication service radio station operators or the Aerodrome Operator, it remains the pilot’s responsibility to obtain the latest weather and aerodrome information and to decide whether or not their skill, overall experience, and recent flying experience on the particular type of aircraft will enable

a safe take-off or landing to be accomplished in the prevailing wind and runway surface conditions.

1.12.2 Those responsible for selecting the runway in use normally chose a runway that is most closely aligned to the surface wind direction but this may vary because of local operational restrictions or procedures. A pilot who is unable to accept the runway in use should advise ATC, the FISO or A/G communication service radio station operator that the crosswind, or tailwind on that runway is outside of their limits and request the use of a more suitable runway. ATC staff at aerodromes can assist pilots of aircraft, particularly light aeroplanes and gliders, by offering, whenever possible, the runway most into wind for take-off and landing if this is not the runway in use.

1.12.3 Use of an alternative runway may entail some delay while aircraft movements for the runway in use are reorganised by the ATC unit, or a suitable break in other traffic occurs at aerodromes at which an AFIS (Callsign suffixed by 'Information') or A/G communication service (Callsign suffixed by 'Radio') is provided. Pilots should recognise that, in some circumstances, the only suitable alternative runway may be at another aerodrome.

1.12.4 ATC procedures are detailed in GEN 3.3.

1.13 Runway Surface Condition Reporting

1.13.1 Information relating to runways affected by water, frost, snow, slush and ice can be found at AD 1.2.2 SNOW PLAN; and guidance on the risks and factors associated with aircraft operations on runways contaminated with frost, snow, slush and water is published in an Aeronautical Information Circular.

1.13.2 The presence or otherwise of surface contaminants on a runway will be reported by the aerodrome operator using the Global Reporting Format (GRF). Further information relating to GRF is detailed in AD 1.2, paragraph 2.5, System and Means of Reporting.

1.13.3 At Government aerodromes, runway surface conditions will be reported using GRF. Further information relating to GRF is detailed in AD 1.2, paragraph 2.5, System and Means of Reporting.

1.14 Runway Friction Assessment

1.14.1 Full details of this procedure can be found in CAP 683, The Assessment of Runway Surface Friction Characteristics.

1.14.2 Aerodrome authorities are required to conduct periodic surveys of the friction characteristics of their runway surfaces. The purpose of these surveys is to predict the need for maintenance of the runway surface to prevent an unacceptable deterioration of grip as detailed in Table 1. The recognised Continuous Friction Measuring Equipment (CFME) devices in the UK are the Mu Meter, GripTester and ASFT.

Table 1: Mu-Meter and Grip Tester and ASFT Friction Levels

Continuous Friction Measuring Equipment (CFME)	Design Objective Level (DOL)	Maintenance Planning Level (MPL)	Minimum Friction Level (MFL)
Mu-Meter	0.72 or above	0.57	0.50
Grip Tester	0.80 or above	0.63	0.55
ASFT	0.82 or above	0.60	0.50
Note: *Friction Levels correspond to the CAP 683 procedure.*			

1.14.3 If a survey indicates that the runway surface friction characteristics have deteriorated below the specified Minimum Friction Level (MFL), then that runway will be notified by NOTAM as a runway that 'may be slippery when wet'.

1.14.4 When a runway is notified as 'may be slippery when wet', aircraft operators may request additional information relating to that notification from the aerodrome operator. However, any performance calculations or adjustment made as a result of this information is the responsibility of the aircraft operator.

2 USE OF MILITARY AIR BASES

2.1 The term Government Aerodrome is applied to those aerodromes in the United Kingdom which are in the occupation of any government department or visiting force. Therefore all UK military aerodromes are so designated.

2.2 It is the Ministry of Defence policy to encourage the use of active Government aerodromes by United Kingdom civil aircraft on inland flights, provided this is consistent with defence requirements and local interests. Those aerodromes notified as available to civil aircraft are listed in AD 1.1 Paragraph 2.12, but permission to use any government aerodrome must be obtained from the operating authority at the aerodrome concerned before landing (in this connection filing of a flight plan does not constitute prior permission). Unless there are special circumstances, permission will not normally be given for flights outside normal working hours of the aerodrome concerned.

2.3 Where permission is sought to use an inactive Government aerodrome, or for overseas flights, at least three weeks notice should

be given, except where the flight is of a humanitarian nature or is for agricultural aviation.

2.4 Foreign aircraft are not normally permitted to use UK Government aerodromes. However, those aerodromes identified as Military Emergency Diversion Aerodromes in GEN 3.6 may be used by foreign aircraft when the destination aerodrome, as indicated in the flight plan, is unusable because of adverse conditions.

2.5 The pilot of a civil aircraft wishing to use a military aerodrome will be required to comply with the following instructions:

a) Prior to flight departure, to obtain permission to land there from the authority at the aerodrome concerned; in this connection the filing of a flight plan does not constitute obtaining prior permission; also to provide details of the aircraft, crew and passengers. Permission to use an aerodrome may be withheld for operational or administrative reasons; rejection of a request for such reasons must be accepted as final;
b) all aircraft must comply with the ATC procedures in force at the aerodrome. Aeronautical information which is not published in the UK AIP may be obtained from the MIL AIP;
c) if making an instrument approach, pilots of civil aircraft should calculate their Aerodrome Operating Minima in accordance with AD 1.1 Paragraph 4;
d) after landing, to report personally to Air Traffic Control and give details of the aircraft, crew and passengers. Note that control of entry precautions normal to a particular military aerodrome will, in the interests of security, be applied to all persons arriving or departing by civil aircraft;
e) before taking-off, to report personally to Air Traffic Control and give particulars of flight crew and passengers, and obtain taxiing instructions. The pilot is responsible for deciding whether or not to proceed after receipt of clearance to taxi and take-off.

2.6 Hangarage for civil aircraft may be provided subject to agreement and, if provided, will be entirely at the owners risk.

2.7 Fuel, oil, or similar products, may be provided at the Commanding Officer's discretion but servicing or loading of civil aircraft cannot be undertaken except in cases of distress or exceptional circumstances. Pilots may make their own arrangements with civil petrol agents to refuel their civil aircraft on the aerodrome, provided that they furnish adequate cover against damage or loss arising from the presence of the agent's equipment and that prior permission for such arrangements is obtained from the Commanding Officer of the station. No permanent positioning of civil refuelling equipment or parties will be permitted, unless the approval of the Ministry of Defence has been obtained.

2.8 Liability will not be accepted by the controlling Department, its servants or agents, or by any servant or agent of the Crown for the loss or damage, by accident, fire, flood, tempest, explosion or any other cause to aircraft, or for loss or damage, from whatever cause, arising to goods, mail or other articles belonging to any person, even if such loss or damage is caused by or arises from negligence on the part of the Department's servants or agents or any servant or agent of the Crown. The use of military aerodromes will be permitted only upon the understanding that the controlling Department and the Crown will be held indemnified against all claims whatsoever made by third parties in respect of personal injuries (whether fatal or otherwise), damage to or loss of property howsoever caused, which may arise as a result of the facilities granted.

2.9 The use of any apparatus such as tractors, cranes, chocks, starter trolleys, etc, belonging to or under the charge of the controlling Department, by the personnel of aircraft or other persons making use of the aerodrome, will be entirely at the risk of the person using such apparatus, and no liability will be accepted for any loss, damage or injury caused by or arising from the use of any such apparatus (whether under the control or management of any servant or agent of the controlling Department or of the Crown or otherwise) other than liability for personal injuries or death caused by or arising from negligence on the part of any servant or agent of the controlling Department or the Crown. The use of such apparatus will be permitted only upon the understanding that the controlling Department and the Crown will be held indemnified against all claims whatsoever which may result from such use. It must, further, be clearly understood that the controlling Department does not in any way guarantee the safety or fitness of any such apparatus or of any equipment, petrol or oil, or similar products, supplied.

2.10 The civil use of Government aerodromes is, in addition to the limitations referred to above, subject to the appropriate charges being paid at the time. Use is also subject to the availability of appropriate Air Traffic Control and crash/rescue services as laid down by Ministry of Defence regulations.

2.11 The Government aerodromes listed in paragraph 2.12 are hereby notified for the purposes of the UK Air Navigation Order, subject to the conditions so specified as available for the take-off and landing of aircraft engaged on flights for the purpose of the public transport of passengers or for the purpose of instruction in flying.

2.12 These aerodromes do not necessarily comply with the specifications of ICAO Annex 14 because of their military use. However, the safety of civil registered aircraft operations is regulated by the UK CAA, while the UK Ministry of Defence (MoD) retains responsibility for all aspects of military registered aircraft operations and for the physical and military operational conditions at these aerodromes. The MoD is also responsible for publishing the necessary and appropriate flight and aerodrome safety information. Civil registered aircraft operators are reminded of their obligations under the UK Air Navigation Order.

Boscombe Down (MoD)	Mildenhall (RAF)
Brize Norton (RAF)	Northolt (RAF) - Refer to AD 1.3
Leuchars (RAF)	Waddington (RAF)
Yeovilton (RNAS)	

Aeronautical information in respect of these aerodromes may be obtained from the MIL AIP.

2.13 UK Military Aerodromes are not subject to the requirements in EU Regulation 216/2008 as amended by EU Regulation 1108/2009, EU Regulation 1035/2011 (relating to ANS) and EU Regulation 139/2014 (relating to aerodromes) and may not comply with the

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Annex 14 Volumes 1 and 2 of the ICAO Convention. Civil Operators requiring further information should contact the particular aerodrome in question; that unit will provide the requisite information and support.

3 LOW VISIBILITY PROCEDURES

3.1 CAT II/III Operations at Aerodromes

3.1.1 Promulgation of an aerodrome/runway as available for Category II or Category III operations means that it is suitably equipped and that procedures appropriate to such operations have been determined and are applied when relevant.

3.1.2 Promulgation implies that at least the following facilities are available:

- ILS - certificated to relevant performance category.
- Lighting - suitable for Category promulgated.
- RVR System - will be an automatic system for Category II and III.

3.1.3 Special procedures and safeguards will be applied during Category II and III operations. In general, these are intended to provide protection for aircraft operating in low visibilities and to avoid disturbance to the ILS signals. The details of any special taxi routes, runway turn-off points and runway holding points are shown in AD 2.

3.1.4 Protection of ILS signals during Category II or III operations may dictate that runway holding positions are more distant from the runway than the runway holding positions used in good weather. Taxiways lying within the ILS Sensitive Area are marked by colour coded taxiway centre-line (alternate yellow/green lights). Pilots should avoid stopping their aircraft within the ILS Sensitive Area and should make their 'Runway Vacated' call only after the aircraft is clear of the Sensitive Area.

3.1.5 In actual Category II or III weather conditions pilots will be informed by ATC of any unserviceabilities in the promulgated facilities so that they can amend their minima, if necessary, according to their operations manual. Pilots who wish to carry out a practice Category II or Category III approach are to request Practice Category II (or Category III) Approach on initial contact with Approach Control. For practice approaches there is no guarantee that the full safeguarding procedures will be applied and pilots should anticipate the possibility of resultant ILS signal disturbance.

3.1.6 Details of aircraft operator requirements for low minima operations, Category ll and lll, are contained within the Air Operations Regulation UK (EU) Regulation 965/2012 which can be obtained from the CAA website.

4 AERODROME OPERATING MINIMA

4.1 Introduction

4.1.1 This section of the AIP specifies the notified method of calculating Aerodrome Operating Minima (AOM).

4.2 General Requirements

4.2.1 Under the provisions of the UK Air Navigation Order, public transport aircraft shall observe AOM and aerial work and private aircraft shall observe AOM when conducting an approach to a runway with a notified Instrument Approach Procedure (IAP).

4.2.2 On 1 January 2021 UK AMC, GM and CS was adopted by CAA as Regulation (EU) No. 965/2012 as retained (and amended in UK domestic law) under the European Union (Withdrawal) Act 2018 replacing Commission Regulation No. 965/2012.

The UK Air Operations Regulation and Acceptable Means of Compliance and Guidance Material are available at:

Air Operations | Civil Aviation Authority (caa.co.uk).

4.2.3 All flight operations by aircraft within the UK Flight Information Region (FIR) are to operate with AOM no lower than calculated using the UK Air Operations Regulation. This is the same method as used to calculate minima published on commercially available flight guides.

4.2.4 For operations to AOM lower than Category 1 and the use of Enhanced Visual Systems to use reduced AOM values, advice should be obtained from Shared Services Centre, Civil Aviation Authority, Gatwick Airport South, West Sussex RH6 0YR.

4.2.5 It should be noted that the privileges of pilot licenses, Rules of the Air and limitations in the aircraft Flight Manual can be more restrictive than the AOM contained in this section. In establishing the AOM that will apply, full account must be taken of:

a) the type and handling characteristics of the aircraft;
b) the composition of the flight crew and their competence and experience;
c) the dimensions and characteristics of the runway which may be selected for use;
d) the adequacy and performance of the available visual and non-visual ground aids;
e) the equipment available on the aircraft for the purpose of navigation and/or control of the flight path, as appropriate, during the take-off, the approach, the flare, the landing, roll-out and missed approach;

f) the obstacles in the approach, and missed approach and climb-out areas required for the execution of contingency procedures and necessary clearance;
g) the obstacle clearance altitude/height for the instrument approach procedures; and
h) the means to determine and report meteorological conditions.

4.3 Commercial Air Transport (CAT) Operations

4.3.1 For CAT operators, the method of calculating AOM should be in accordance with the most restrictive of their company operations manual or the UK Air Operations Regulation unless more restrictive minima are notified in respect of a particular aerodrome.

4.4 Public Transport Operations

4.4.1 For Public Transport aircraft registered in the UK the methods of calculating AOM in relation to 'specified' AOM in Article 107 shall be those in the UK Air Operations Regulation unless more restrictive minima are notified in respect of a particular aerodrome.

4.4.2 For Public Transport aircraft not registered in the UK the AOM in relation to Article 108(3) shall be the most restrictive of their company operations manual or the UK Air Operations Regulation, unless more restrictive minima are notified in respect of a particular aerodrome.

4.5 Aerial Work and Private Aircraft

4.5.1 For Aerial Work and private aircraft operations the AOM in relation to Article 109 shall be no lower than published in the UK Air Operations Regulation unless more restrictive minima are notified in respect of a particular aerodrome.

4.5.2 The take-off minima selected for all flights by single-engine aeroplanes should be adequate to ensure a high probability of a successful forced landing being made should a failure of the engine occur after take-off.

4.6 Altimeter Error

4.6.1 When calculating Decision Height (DH), account must be taken of the errors of indicated height which occur when the aircraft is in the approach configuration. Details of the Pressure Error Correction (PEC) should be available from the aircraft Flight Manual or handbook. In the absence of this information a PEC of +50 FT has been found to be suitable for a wide range of light aircraft and should be used. This addition of 50 FT need only be applied to DH. The required RVR should be calculated prior to applying the PEC.

4.6.2 The use of a radio altimeter is only applicable to approved Category 2 and Category 3 operations. For an aircraft flying a Category 1 or non-precision IAP, DH/Minimum Descent Height (MDH) is indicated on the pressure altimeter. At DH/MDH any readings from a radio altimeter may be unreliable because of the large area of terrain providing return signals to the instrument.

4.6.3 Temperature Error. Pressure altimeters are calibrated to indicate true altitude under International Standard Atmosphere (ISA) conditions. Any deviation from ISA will therefore result in an erroneous reading on the altimeter. The altimeter will over-read for temperatures below ISA and the following table details the values to correct this error.

Aerodrome	Altitude Above Altimeter Source Elevation (FT) (normally destination elevation)													
Temp °C	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000
0°	20	20	30	30	40	40	50	50	60	90	120	170	230	280
-10°	20	30	40	50	60	70	80	90	100	150	200	290	390	490
-20°	30	50	60	70	90	100	120	130	140	210	280	420	570	710
-30°	40	60	80	100	120	140	150	170	190	280	380	570	760	950
-40°	50	80	100	120	150	170	190	220	240	360	480	720	970	1210
-50°	60	90	120	150	180	210	240	270	300	450	590	890	1190	1500
Values to be added to published altitudes (FT)														

4.7 Obstacle Clearance Height (OCH)

4.7.1 The DH/MDH for an approach is determined in part by considering obstacles that could affect the approach of a particular aircraft. In broad terms, the more accurate the aid supporting the approach to be flown and the slower the approach speed of the aircraft, the smaller the area in which obstacles need to be considered. The height which is calculated to clear all obstacles by a defined margin within a particular area is called Obstacle Clearance Height and is the lowest height above the elevation of the relevant runway threshold or above the aerodrome elevation used in establishing compliance with the appropriate obstacle clearance criteria.

4.7.2 The OCH is listed for individual aerodrome approaches on the relevant Instrument Approach Chart in section AD 2. For the

purposes of calculating OCH helicopters are categorised as Aeroplane Category A.

4.8 Determination of DH/MDH

4.8.1 **Instrument Rating Holders in Current Practice**

4.8.1.1 A pilot with a valid instrument rating and who is in current practice may use the minima calculated in accordance with this section.

4.8.2 **IMC Rating / IR (Restricted) Holder in Current Practice**

4.8.2.1 Pilots with a valid Instrument Meteorological Conditions (IMC) Rating or Instrument Rating (Restricted) (IR(R)) are recommended to add 200 FT to the minimum applicable DH/MDH, but with absolute minima of 500 FT for a precision approach and 600 FT for a non-precision approach. The UK IMC Rating / IR(R) may not be valid outside UK territorial airspace, therefore such pilots should check the validity of their rating for the State in which they intend to fly. If the rating is not valid pilots must comply with the basic licence privileges, subject to the regulations of that State.

4.8.3 **Pilots not in Current Practice**

4.8.3.1 A pilot not in current practice should try to avoid having to make an instrument approach in poor weather conditions. If pilots have to make such an approach, even if they are fully confident of their abilities, they are advised to add 100 FT to their calculated DH/ MDH. Further increments should be added depending on when the pilot was last in full practice, and their familiarity with the aircraft, the procedure and the aerodrome environment.

4.9 Approach Ban - All Aircraft

4.9.1 The requirements for the commencement and continuation of an approach (approach ban) applicable to all CAT operations is given in CAT.OP.MPA.305.

4.9.2 The approach ban requirements for public transport operations, aerial work and private operations are defined in the UK Air Navigation Order. The ‘specified’ minima are detailed below and reflect the UK Air Operations Regulation.

4.9.3 An aircraft may commence an instrument approach regardless of the reported RVR/Visibility but the approach shall not be continued below 1,000 FT above the aerodrome if the relevant RVR/Visibility for that runway is at the time less than the specified minimum for landing.

4.9.4 If, after passing 1,000 FT in accordance with paragraph 4.9.3, the reported RVR/Visibility falls below the applicable minimum, the approach may be continued to DA/H or MDA/H.

4.9.5 The approach may be continued below DA/H or MDA/H and the landing may be completed provided that the required visual reference is established at the DA/H or MDA/H and is maintained.

4.9.6 The touchdown zone Runway Visual Range (RVR) shall always be controlling.

4.10 Military aerodromes in UK Territorial Airspace

4.10.1 The majority of military aerodromes in the UK use PANS-OPS design criteria for their approach procedures; the method of determining AOM is as outlined above. Where additional criteria are needed to meet unique military requirements, Military Instrument Procedures and Standards (MIPS) are used. The MIPS used are NATO AATCP-1 Approach criteria and all charts utilising MIPS are clearly labelled.

There are 3 exceptions where aerodromes operate in accordance with FAA requirements, utilising TERPS design criteria: RAF Fairford, RAF Lakenheath and RAF Mildenhall. All associated charts are clearly labelled as TERPS.

4.10.2 For non-precision approaches the Procedure Minimum may be taken to be the OCH.

4.10.3 DH/MDH should then be determined as previously described and the related RVR obtained from AATCP-1.

4.10.4 OCH information will not be used at British Military Aerodromes.

4.10.5 Instrument Approaches and landings at UK Military Aerodromes are usually flown on QFE, as is flying in the visual circuit. Aircraft that are unable to comply with the above procedure should inform ATC and will be accommodated wherever possible.

4.11 Overseas Aerodromes

4.11.1 AOM at overseas aerodromes should not be lower than those published as State minima or permitted by the privileges of the pilot's

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licence by the UK or overseas State.

4.12 Aerodromes Without Published Instrument Approach Procedures

4.12.1 For an aircraft landing at an aerodrome without an instrument approach procedure either:

a) a descent should be made in VMC until in visual contact with the ground, then fly to the destination; or
b) an IAP at a nearby aerodrome should be flown and proceed as in (a); or
c) if neither (a) nor (b) is possible, first obtain an accurate fix and then descend not lower than 1,000 FT above the highest obstacle within 5 NM (8 KM) of the aircraft. If visual contact (as at (a) above) has not been established at this height, the aircraft should divert to a suitable alternate with a published instrument approach procedure.

5 OTHER INFORMATION

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN

1 RESCUE AND FIRE FIGHTING SERVICES

1.1 The categories of fire and rescue equipment given at AD 2.6, their relevance to individual aircraft, and the minimum scales of equipment required to meet the respective categories are contained in Regulation (EU) No. 139/2014 as retained (and amended in the UK domestic law) under the European Union (Withdrawal) Act 2014, and associated rules and Civil Aviation Publication - CAP 168 - 'Licensing of Aerodromes'. They approximate closely to those contained in the relevant ICAO publications.

1.2 For the convenience of aircraft operators the relationship of the rescue and fire fighting categories to individual aircraft is summarised as follows: A = Aerodrome, H = Heliport

Aerodrome Fire and Rescue Category	Aircraft Overall Length (M)	Fuselage Width (M)
‡Special	0 up to but not including 9	2
A1	0 up to but not including 9	2
A2	9 up to but not including 12	2
A3	12 up to but not including 18	3
A4	18 up to but not including 24	4
A5	24 up to but not including 28	4
A6	28 up to but not including 39	5
A7	39 up to but not including 49	5
A8	49 up to but not including 61	7
A9	61 up to but not including 76	7
A10	76 up to but not including 90	8
‡ Aerodromes which are generally licensed solely in order that flying instruction may take place.		

1.3 For the convenience of helicopter operators the relationship of the Rescue and Fire Fighting categories to individual helicopters is summarised as follows:

Heliport Category	† Aircraft Overall Length (M)
‡Special	0 up to but not including 15
H1	0 up to but not including 15
H2	15 up to but not including 24
H3	24 up to but not including 35
† Helicopter length includes rotors and tail boom.	
‡ Aerodromes which are licensed solely in order that flying instruction may take place.	

2 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING / SNOW PLAN

2.1 Organisation of the Runway Surface Condition Reporting and Winter Service

2.1.1 Agreement has been reached through the International Civil Aviation Organisation (ICAO) to apply standard procedures at international aerodromes within the European/Mediterranean Region, for the clearance of winter contaminants (frost, snow, ice, slush and associated water) from aerodrome surfaces and for the assessing and reporting of aerodrome surface conditions during adverse weather conditions. From 4 November 2021, UK aerodromes use the Global Reporting Format (GRF).

2.1.2 Prior to the onset of winter conditions, aerodrome operators prepare a plan to effect efficient clearance and measurement procedures intended to ensure maximum availability of the aerodrome. The plan is formulated in co-operation with Air Traffic Services and the aerodrome users. Arrangements are made to ensure that the plan can be implemented as soon as meteorological forecasts indicate the likelihood of surface contamination. The first priority is to clear operational runways and other essential parts of the movement area. Provision for assessment and reporting procedures are made. Subsequently, the surfaces cleared are maintained free of contaminant as far as is reasonably practicable.

2.2 Surveillance of Movement Areas

2.2.1 Surveillance of the movement area will be carried out typically from vehicles by trained aerodrome operator personnel. All reports will be based on human assessment of each runway third for % coverage, depth, and type of contaminant.

2.3 Measuring Methods and Measurements Taken

2.3.1 Continuous Friction Measuring Equipment (CFME) is not used for GRF purposes at UK aerodromes.

2.4 Actions Taken to Maintain the Usability of Movement Areas

2.4.1 Mechanical snow clearing equipment; blowers, sweepers, ploughs and rotary brushes form the main part of the contaminant clearance equipment used at most large aerodromes. Various methods are employed and brief details of those available at

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN (continued)

individual aerodromes are given in the individual aerodrome entry of the AIP.

2.4.2 As far as practicable, clearance techniques employed prevent the build-up of snowbanks. Where this is unavoidable, every effort is made to restrict snowbanks to such a height and distance apart as to ensure safe manoeuvring of the most critical aircraft, in this context, normally using the aerodrome. Snowbanks are reported as soon as these are likely to affect safe manoeuvring by the most critical aircraft, in this context, normally using the aerodrome. Details of snowbanks will be notified in the situational awareness section of the SNOWTAM.

2.4.3 Slush and associated standing water are cleared whilst it is forming. Clearance may have to be repeated at intervals and some interruption of operations may be inevitable.

2.4.4 Salt is only used if it is found to be essential and is restricted to areas around edge drains to prevent slush build-up and to ensure continuous drainage. Liquid or other chemicals used for clearing ice on runways, taxiways and aprons are non-toxic and should have no detrimental effects on aircraft, aerodrome surfaces or the friction value of aerodrome pavements.

2.5 System and Means of Reporting

2.5.1 At UK aerodromes, ATS or the aerodrome operator according to local organisation, assess and report runway surface conditions.

2.5.2 UK aerodromes use the Global Reporting Format (GRF) which comprises an assessment by airport operations staff using a Runway Condition Assessment Matrix (RCAM) and the consequent assignment of a Runway Condition Code (RWYCC) ranging from 6 to 0. This code is complemented by a description of the surface contaminant based on type, depth and % coverage for each third of the runway. The code is based on the effect of the runway conditions on aircraft braking.

Note: *With the introduction of the GRF the requirement to include supplementary information regarding the state of the runway in METAR is removed.*

Runway Condition Assessment Matrix (RCAM)			
Assessment Criteria		Downgrade assessment criteria	
RWYCC	**Runway surface description**	**Aeroplane deceleration or directional control observation**	**Special air-report of runway braking action**
6	DRY	-	-
5	FROST WET (The runway surface is covered by any visible dampness or water up to and including 3 MM depth) **Up to and including 3 MM depth:** SLUSH DRY SNOW WET SNOW	Braking deceleration is normal for the wheel braking effort AND directional control is normal	GOOD
4	**-15 °C and lower outside temperature:** COMPACTED SNOW	Braking deceleration OR directional control is between good and medium	GOOD TO MEDIUM
3	WET (“slippery wet” runway) DRY SNOW or WET SNOW (any depth) ON TOP OF COMPACTED SNOW **More than 3 MM depth:** DRY SNOW WET SNOW **Higher than -15 °C outside air temperature:** COMPACTED SNOW	Braking deceleration is noticeably reduced for the wheel braking effort applied OR directional control is noticeably reduced	MEDIUM
2	**More than 3 MM:** STANDING WATER SLUSH	Braking deceleration OR directional control is between medium and poor	MEDIUM TO POOR

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN (continued)

Runway Condition Assessment Matrix (RCAM)			
Assessment Criteria		Downgrade assessment criteria	
RWYCC	Runway surface description	Aeroplane deceleration or directional control observation	Special air-report of runway braking action
1	ICE	Braking deceleration is significantly reduced for the wheel braking effort applied OR directional control is significantly reduced	POOR
0	WET ICE WATER ON TOP OF COMPACTED SNOW DRY SNOW or WET SNOW ON TOP OF ICE	Braking deceleration is minimal to non-existent for the wheel braking effort applied OR directional control is uncertain	LESS THAN POOR

2.5.3 The outcome of the assessment and associated RWYCC are transmitted using a Runway Condition Report (RCR) forwarded to air traffic services and the aeronautical information services for dissemination to pilots. The pilots will use the RWYCC to determine their aircraft's performance by correlating the code with performance data provided by their aircraft's manufacturer. This will help pilots to correctly carry out their landing and take-off performance calculations for wet or contaminated runways.

Note: *Information provided via the Runway Condition Report is disseminated by SNOWTAM regardless of the nature of the contaminant. WET runway conditions are included in the runway condition report (RCR).*

2.5.4 The assessment process of assigning a RWYCC is a deterministic process, starting with the identification of the various contaminants, that determines what initial RWYCC must be reported. Based on all other information available, this initial RWYCC can be downgraded or upgraded using procedures detailed aerodrome specific procedures.

2.5.5 The revised scale GOOD, GOOD TO MEDIUM, MEDIUM, MEDIUM TO POOR, POOR and LESS THAN POOR is used by the flight crew to characterize perceived braking action and lateral control of the aeroplane during landing roll. When an aerodrome receives pilot reports indicating a braking action perceived as worse than that being reported the aerodrome operator should consider reassessing the runway surface conditions. RWYCCs 0 through 6 are mapped to this terminology in the runway condition assessment matrix (RCAM) and describe a consistent runway surface condition in relation to its effect on aircraft braking performance and lateral control. The RCAM correlates the RWYCC, the agreed set of criteria and the aircraft braking action which the flight crew should expect for each value of the RWYCC.

2.5.6 The aerodrome operator reports the runway surface condition over each third of the runway using a runway condition report (RCR). The report includes a runway condition code (RWYCC) using numbers 0 to 6, the contaminant coverage and depth, and a description reported in capital letters using the following terms:

a) COMPACTED SNOW; (snow that has been compacted into a solid mass such that aeroplane tyres, at operating pressures and loadings, will run on the surface without significant further compaction or rutting of the surface);
b) DRY;
c) DRY SNOW; (snow from which a snowball cannot readily be made);
d) DRY SNOW ON TOP OF COMPACTED SNOW;
e) DRY SNOW ON TOP OF ICE;
f) FROST; (ice crystals formed from airborne moisture on a surface whose temperature is at or below freezing; frost differs from ice in that frost crystals grow independently and therefore, have a more granular texture);
g) ICE; (water that has frozen or compacted snow that has transitioned into ice in cold and dry conditions);
h) SLUSH; (snow that is so water-saturated that water will drain from it when a handful is picked up or will splatter if stepped on forcefully);
i) STANDING WATER; (water of depth greater than 3 MM);
j) WATER ON TOP OF COMPACTED SNOW;
k) WET;
l) WET ICE; (ice with water on top of it or ice that is melting);
m) WET SNOW; (snow that contains enough water to be able to make a well-compacted, solid snowball, but water will not squeeze out);
n) WET SNOW ON TOP OF COMPACTED SNOW;
o) WET SNOW ON TOP OF ICE.

Note 1: *RCAM is used to allocate the appropriate Runway Condition Code to the runway surface description. The same contaminant may me associated with more than one RCC, depending mainly on depth (e.g. SLUSH, DRY SNOW, WET SNOW), temperature (COMPACTED SNOW) or additional conditions (WET).*

Note 2: *WET condition can be associated with two Runway Condition Codes: 5, if the runway surface is covered by any visible dampness or water up to and including 3 MM depth; or 3, if the runway is "slippery wet". States that follow EASA Regulations additionally use SPECIALLY PREPARED WINTER RUNWAY for runway condition code 4 and the descriptor WET for runway condition code 3 is replaced by SLIPPERY WET.*

2.5.7 A standard depth gauge may be used to measure the depth of snow, slush or water on runways as part of the overall assessment. Readings are taken at approximately 300 M intervals between 5 and 10 M on each side of the centre-line and clear of the effects of rutting. By international agreement depth information is given in millimetres representing the mean of readings obtained for each

AD 1.2 RESCUE AND FIRE FIGHTING SERVICES AND SNOW PLAN (continued)

third of the total runway length.

2.6 The Cases of Runway Closure

2.6.1 Every attempt will be made to keep runways open and operational during adverse weather conditions. However as much advance notice of runway closure as possible will be provided to appropriate ATS Units and promulgated via NOTAM.

2.7 Distribution of Information about Runway Surface Conditions

2.7.1 Information on the current state of progress of snow clearance and on the conditions of the movement areas is available from a designated authority at the aerodrome concerned. Information on pavement conditions is also be available by RTF or ATIS from the aerodrome concerned.

2.7.2 Information on current surface conditions at UK and other European aerodromes generally is also available from the following sources:

a) SNOWTAM;
b) Automatic Terminal Information Service (ATIS);
c) RTF between ATS and aircraft operators.

2.7.3 The SNOWTAM provides a standard Runway Condition Report (RCR) which includes an assessment of each third of the runway including information on the runway designator, type, extent and depth of deposit.

2.7.4 The maximum validity of SNOWTAM is 8 hours. New SNOWTAM must be issued whenever a new RCR is prepared by the aerodrome. When no SNOWTAM is issued after 8 hours of a previous SNOWTAM for an aerodrome, the old SNOWTAM is expired and it should be assumed that there is no more significant runway surface condition to be reported.

2.7.5 ATIS message received by pilots includes operational runway direction, contaminant type, depth and percentage coverage.

2.7.6 RTF reports to pilots provide an assessment in plain language of the available runway length, including a description of the prevailing conditions i.e. ice, snow or slush, the Runway Condition Code, together with the time of the measurement.

AD 1.3 INDEX TO AERODROMES AND HELIPORTS

Aerodrome/Heliport name Location Indicator		Type of traffic permitted to use the aerodrome/heliport			Reference to AD section and remarks
		International/National (INTL/NTL)	IFR/VFR	Scheduled (S) Non-scheduled (NS) Private (P)	
1		2	3	4	5
Aerodrome					
ABERDEEN/DYCE	EGPD	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPD page AD 2.EGPD-1
ALDERNEY	EGJA	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGJA page AD 2.EGJA-1
ANDREWSFIELD	EGSL	INTL-NTL	VFR	P	AD 2 - EGSL page AD 2.EGSL-1
BARRA	EGPR	NTL	IFR/VFR	P	AD 2 - EGPR page AD 2.EGPR-1
BELFAST ALDERGROVE	EGAA	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGAA page AD 2.EGAA-1
BELFAST/CITY	EGAC	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGAC page AD 2.EGAC-1
BENBECULA	EGPL	NTL	IFR/VFR	S, NS, P	AD 2 - EGPL page AD 2.EGPL-1
BLACKBUSHE	EGLK	INTL-NTL	IFR/VFR	P	AD 2 - EGLK page AD 2.EGLK-1
BLACKPOOL	EGNH	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGNH page AD 2.EGNH-1
BOURNEMOUTH	EGHH	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGHH page AD 2.EGHH-1
BRISTOL	EGGD	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGGD page AD 2.EGGD-1
CAMPBELTOWN	EGEC	NTL	IFR/VFR	P	AD 2 - EGEC page AD 2.EGEC-1
CHALGROVE	EGLJ	NTL	IFR/VFR	P	AD 2 - EGLJ page AD 2.EGLJ-1
COLL	EGEL	NTL	VFR	S, P	AD 2 - EGEL page AD 2.EGEL-1
COLONSAY	EGEY	NTL	VFR	S, P	AD 2 - EGEY page AD 2.EGEY-1
COMPTON ABBAS	EGHA	INTL-NTL	VFR	P	AD 2 - EGHA page AD 2.EGHA-1
COVENTRY	EGBE	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGBE page AD 2.EGBE-1
CRANFIELD	EGTC	INTL-NTL	IFR/VFR	P	AD 2 - EGTC page AD 2.EGTC-1
CUMBERNAULD	EGPG	INTL-NTL	VFR	P	AD 2 - EGPG page AD 2.EGPG-1
DENHAM	EGLD	INTL-NTL	VFR	P	AD 2 - EGLD page AD 2.EGLD-1
DERBY	EGBD	NTL	VFR	P	AD 2 - EGBD page AD 2.EGBD-1
DUNDEE	EGPN	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPN page AD 2.EGPN-1
DUNKESWELL	EGTU	INTL-NTL	VFR	P	AD 2 - EGTU page AD 2.EGTU-1
DUXFORD	EGSU	INTL-NTL	VFR	P	AD 2 - EGSU page AD 2.EGSU-1
EARLS COLNE	EGSR	INTL-NTL	VFR	P	AD 2 - EGSR page AD 2.EGSR-1
EAST MIDLANDS	EGNX	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGNX page AD 2.EGNX-1
EDINBURGH	EGPH	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPH page AD 2.EGPH-1
ELSTREE	EGTR	INTL-NTL	VFR	P	AD 2 - EGTR page AD 2.EGTR-1
EXETER	EGTE	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGTE page AD 2.EGTE-1
FAIR ISLE	EGEF	NTL	VFR	P	AD 2 - EGEF page AD 2.EGEF-1
FAIROAKS	EGTF	INTL-NTL	VFR	P	AD 2 - EGTF page AD 2.EGTF-1
FARNBOROUGH	EGLF	INTL-NTL	IFR/VFR	NS, P	AD 2 - EGLF page AD 2.EGLF-1
FENLAND	EGCL	INTL-NTL	VFR	P	AD 2 - EGCL page AD 2.EGCL-1
GUERNSEY	EGJB	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGJB page AD 2.EGJB-1
ISLAY	EGPI	NTL	IFR/VFR	S, NS, P	AD 2 - EGPI page AD 2.EGPI-1
ISLE OF MAN	EGNS	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGNS page AD 2.EGNS-1
JERSEY	EGJJ	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGJJ page AD 2.EGJJ-1
LAND'S END	EGHC	INTL-NTL	IFR/VFR	P	AD 2 - EGHC page AD 2.EGHC-1
LASHENDEN/HEADCORN	EGKH	INTL-NTL	VFR	P	AD 2 - EGKH page AD 2.EGKH-1
LEE-ON-SOLENT	EGHF	INTL-NTL	VFR	NS, P	AD 2 - EGHF page AD 2.EGHF-1
LEICESTER	EGBG	INTL-NTL	VFR	P	AD 2 - EGBG page AD 2.EGBG-1
LERWICK/TINGWALL	EGET	NTL	VFR	P	AD 2 - EGET page AD 2.EGET-1
LONDON LUTON	EGGW	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGGW page AD 2.EGGW-1
LONDONDERRY/EGLINTON	EGAE	INTL-NTL	IFR/VFR	P	AD 2 - EGAE page AD 2.EGAE-1
MANCHESTER BARTON	EGCB	INTL-NTL	VFR	P	AD 2 - EGCB page AD 2.EGCB-1
NETHERTHORPE	EGNF	INTL-NTL	VFR	P	AD 2 - EGNF page AD 2.EGNF-1
NEWCASTLE	EGNT	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGNT page AD 2.EGNT-1
NEWQUAY	EGHQ	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGHQ page AD 2.EGHQ-1
NEWTOWNARDS	EGAD	INTL-NTL	VFR	P	AD 2 - EGAD page AD 2.EGAD-1
NORTH RONALDSAY	EGEN	NTL	VFR	P	AD 2 - EGEN page AD 2.EGEN-1
NORWICH	EGSH	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGSH page AD 2.EGSH-1

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Aerodrome/Heliport name Location Indicator		Type of traffic permitted to use the aerodrome/heliport			Reference to AD section and remarks
		International/National (INTL/NTL)	IFR/VFR	Scheduled (S) Non-scheduled (NS) Private (P)	
1		2	3	4	5
OLD BUCKENHAM	EGSV	INTL-NTL	VFR	P	AD 2 - EGSV page AD 2.EGSV-1
OLD WARDEN	EGTH	NTL	VFR	P	AD 2 - EGTH page AD 2.EGTH-1
OXFORD	EGTK	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGTK page AD 2.EGTK-1
PERTH/SCONE	EGPT	INTL-NTL	VFR	P	AD 2 - EGPT page AD 2.EGPT-1
RETFORD/GAMSTON	EGNE	INTL-NTL	VFR	P	AD 2 - EGNE page AD 2.EGNE-1
ROCHESTER	EGTO	INTL-NTL	VFR	P	AD 2 - EGTO page AD 2.EGTO-1
SANDTOFT	EGCF	INTL-NTL	VFR	P	AD 2 - EGCF page AD 2.EGCF-1
SCILLY ISLES/ST MARY'S	EGHE	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGHE page AD 2.EGHE-1
SHOBDON	EGBS	INTL-NTL	VFR	P	AD 2 - EGBS page AD 2.EGBS-1
SLEAP	EGCV	INTL-NTL	VFR	P	AD 2 - EGCV page AD 2.EGCV-1
SOUTHAMPTON	EGHI	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGHI page AD 2.EGHI-1
SOUTHEND	EGMC	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGMC page AD 2.EGMC-1
ST ATHAN	EGSY	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGSY page AD 2.EGSY-1
STAPLEFORD	EGSG	INTL-NTL	VFR	P	AD 2 - EGSG page AD 2.EGSG-1
STORNOWAY	EGPO	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPO page AD 2.EGPO-1
SWANSEA	EGFH	INTL-NTL	VFR	S, NS, P	AD 2 - EGFH page AD 2.EGFH-1
TATENHILL	EGBM	INTL-NTL	VFR	P	AD 2 - EGBM page AD 2.EGBM-1
TIREE	EGPU	NTL	IFR/VFR	S, NS, P	AD 2 - EGPU page AD 2.EGPU-1
WALNEY	EGNL	NTL	IFR/VFR	P	AD 2 - EGNL page AD 2.EGNL-1
WARTON	EGNO	INTL-NTL	IFR/VFR	P	AD 2 - EGNO page AD 2.EGNO-1
WELLESBOURNE MOUNTFORD	EGBW	INTL-NTL	VFR	P	AD 2 - EGBW page AD 2.EGBW-1
WELSHPOOL	EGCW	INTL-NTL	VFR	P	AD 2 - EGCW page AD 2.EGCW-1
WEST WALES/ABERPORTH	EGFA	NTL	VFR	P	AD 2 - EGFA page AD 2.EGFA-1
WHITE WALTHAM	EGLM	INTL-NTL	VFR	S, NS, P	AD 2 - EGLM page AD 2.EGLM-1
WICK	EGPC	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPC page AD 2.EGPC-1
WICKENBY	EGNW	NTL	VFR	P	AD 2 - EGNW page AD 2.EGNW-1
WYCOMBE AIR PARK/BOOKER	EGTB	INTL-NTL	VFR	P	AD 2 - EGTB page AD 2.EGTB-1
YEOVIL/WESTLAND	EGHG	INTL-NTL	IFR/VFR	P	AD 2 - EGHG page AD 2.EGHG-1
Aerodrome with helicopter landing area					
BIGGIN HILL	EGKB	INTL-NTL	IFR/VFR	P	AD 2 - EGKB page AD 2.EGKB-1
BIRMINGHAM	EGBB	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGBB page AD 2.EGBB-1
CAERNARFON	EGCK	INTL-NTL	VFR	P	AD 2 - EGCK page AD 2.EGCK-1
CAMBRIDGE	EGSC	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGSC page AD 2.EGSC-1
CARDIFF	EGFF	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGFF page AD 2.EGFF-1
CHICHESTER/GOODWOOD	EGHR	INTL-NTL	VFR	P	AD 2 - EGHR page AD 2.EGHR-1
EDAY	EGED	NTL	VFR	P	AD 2 - EGED page AD 2.EGED-1
ENNISKILLEN/ST ANGELO	EGAB	NTL	VFR	P	AD 2 - EGAB page AD 2.EGAB-1
GLASGOW	EGPF	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPF page AD 2.EGPF-1
GLOUCESTERSHIRE	EGBJ	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGBJ page AD 2.EGBJ-1
HAVERFORDWEST	EGFE	INTL-NTL	VFR	P	AD 2 - EGFE page AD 2.EGFE-1
HAWARDEN	EGNR	INTL-NTL	IFR/VFR	P	AD 2 - EGNR page AD 2.EGNR-1
HUMBERSIDE	EGNJ	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGNJ page AD 2.EGNJ-1
INVERNESS	EGPE	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPE page AD 2.EGPE-1
KEMBLE	EGBP	NTL	IFR/VFR	NS, P	AD 2 - EGBP page AD 2.EGBP-1
KIRKWALL	EGPA	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPA page AD 2.EGPA-1
LEEDS BRADFORD	EGNM	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGNM page AD 2.EGNM-1
LEEDS EAST	EGCM	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGCM page AD 2.EGCM-1
LIVERPOOL	EGGP	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGGP page AD 2.EGGP-1
LONDON CITY	EGLC	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGLC page AD 2.EGLC-1
LONDON GATWICK	EGKK	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGKK page AD 2.EGKK-1
LONDON HEATHROW	EGLL	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGLL page AD 2.EGLL-1
LONDON STANSTED	EGSS	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGSS page AD 2.EGSS-1
LYDD	EGMD	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGMD page AD 2.EGMD-1

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Aerodrome/Heliport name Location Indicator		Type of traffic permitted to use the aerodrome/heliport			Reference to AD section and remarks
		International/National (INTL/NTL)	IFR/VFR	Scheduled (S) Non-scheduled (NS) Private (P)	
1		2	3	4	5
MANCHESTER	EGCC	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGCC page AD 2.EGCC-1
NOTTINGHAM	EGBN	INTL-NTL	VFR	P	AD 2 - EGBN page AD 2.EGBN-1
OBAN	EGEO	INTL-NTL	VFR	P	AD 2 - EGEO page AD 2.EGEO-1
PAPA WESTRAY	EGEP	NTL	VFR	P	AD 2 - EGEP page AD 2.EGEP-1
PRESTWICK	EGPK	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPK page AD 2.EGPK-1
REDHILL	EGKR	INTL-NTL	VFR	S, NS, P	AD 2 - EGKR page AD 2.EGKR-1
SANDAY	EGES	NTL	VFR	P	AD 2 - EGES page AD 2.EGES-1
SHERBURN-IN-ELMET	EGCJ	INTL-NTL	IFR/VFR	P	AD 2 - EGCJ page AD 2.EGCJ-1
SHOREHAM	EGKA	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGKA page AD 2.EGKA-1
STRONSAY	EGER	NTL	VFR	P	AD 2 - EGER page AD 2.EGER-1
SUMBURGH	EGPB	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGPB page AD 2.EGPB-1
TEESSIDE INTERNATIONAL	EGNV	INTL-NTL	IFR/VFR	S, NS, P	AD 2 - EGNV page AD 2.EGNV-1
THRUXTON	EGHO	INTL-NTL	VFR	P	AD 2 - EGHO page AD 2.EGHO-1
WESTRAY	EGEW	NTL	VFR	P	AD 2 - EGEW page AD 2.EGEW-1
WOLVERHAMPTON/HALFPENNY GREEN	EGBO	INTL-NTL	IFR/VFR	P	AD 2 - EGBO page AD 2.EGBO-1
Heliport					
CHELTENHAM HELIPORT	EGBC	NTL	VFR	P	AD 3 - EGBC page AD 3.EGBC-1
LONDON HELIPORT	EGLW	INTL-NTL	VFR	P	AD 3 - EGLW page AD 3.EGLW-1
PENZANCE HELIPORT	EGHK	INTL-NTL	VFR	P	AD 3 - EGHK page AD 3.EGHK-1
PORTLAND HELIPORT	EGDP	INTL-NTL	VFR	P	AD 3 - EGDP page AD 3.EGDP-1
TRESCO HELIPORT	EGHT	NTL	VFR	P	AD 3 - EGHT page AD 3.EGHT-1

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AERODROMES LISTED WITHIN THE AD SECTION OF THE UNITED KINGDOM AIP



CHANGE (9/25): DONCASTER SHEFFIELD REMOVED.

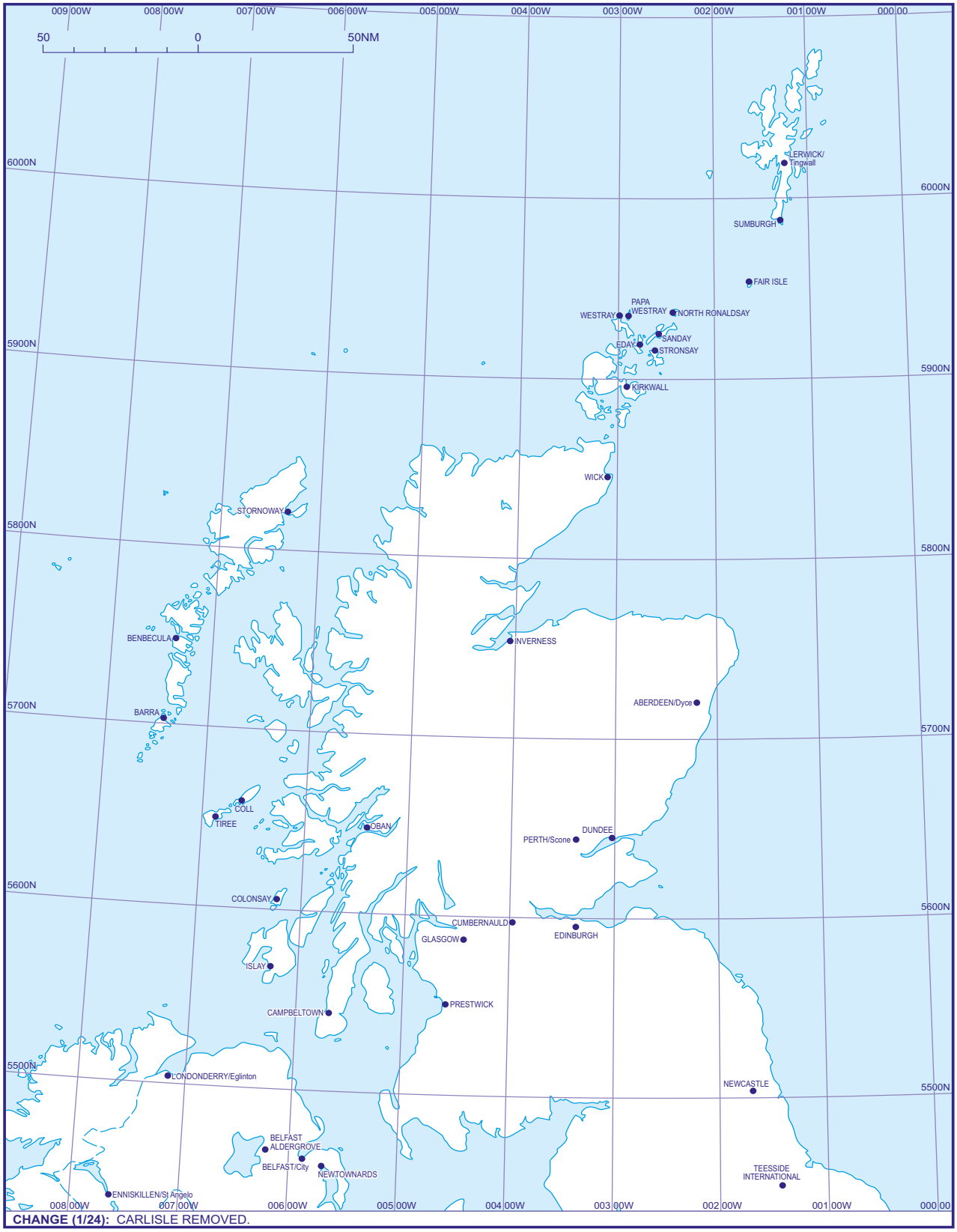
AERO INFO DATE 06 JUN 25

AD 1.3-4

FOR THE LATEST CHANGES IN INFORMATION THIS CHART SHOULD BE CHECKED AGAINST THE AD 2 AND AD 3 SECTIONS OF THE UK AIP

AD 1.3 INDEX TO AERODROMES AND HELIPORTS (continued)

AERODROMES LISTED WITHIN THE AD SECTION OF THE UNITED KINGDOM AIP



CHANGE (1/24): CARLISLE REMOVED.

AERO INFO DATE 30 OCT 23

AD 1.3-5

FOR THE LATEST CHANGES IN INFORMATION THIS CHART SHOULD BE CHECKED AGAINST THE AD 2 AND AD 3 SECTIONS OF THE UK AIP

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AD 1.4 GROUPING OF AERODROMES/HELIPORTS

1 Aerodrome Categorisation

1.1 Responsible Authority

1.1.1 The Civil Aviation Authority, through its Safety and Airspace Regulation Group (SARG), Manager Aerodromes and ATM, is responsible for the general surveillance of all licensed and certificated civil aerodromes in the United Kingdom. Enquiries relating to aerodromes and licensing/certification should be made to Aerodromes Sub-Department Tel: 01293-573419. See GEN 1.1 for address.

1.2 Licence Types

1.2.1 In the United Kingdom there are two types of civil aerodrome licence, namely Public Use Licence and Ordinary Licence.

1.2.2 Aerodromes or Heliports operated in accordance with a Public Use Licence must have their hours of availability notified in the UK AIP and the aerodrome/heliport must be available to all operators on certain equal terms and conditions. However, this does not necessarily mean that the aerodrome is available to all flights without limitation. Aircraft operators must check and comply with the requirements and conditions of use indicated at AD 2 or AD 3.

1.2.3 Aerodromes or Heliports operated in accordance with an Ordinary Licence may accept flights operated by the holder of the licence or by those specifically authorised by that licence holder. This normally means that prior permission is required for most flights but it does not exclude the possibility of scheduled or non-scheduled public transport flights being arranged after the formal agreement of the licence holder.

1.2.4 The annotations within column 4 of the table at AD 1.3 reflect the aerodrome/heliport licence type and must be interpreted in conjunction with the above descriptions and with the conditions of use indicated at AD 2 and AD 3.

1.3 Government Aerodromes

1.3.1 Detailed descriptions of Government aerodromes are not listed in the UK AIP.

1.3.2 Several Government aerodromes accept civil traffic subject to prior approval. These aerodromes are listed at AD 1.3 and detailed information about them is published in the UK Military documentation which is available to civil pilots on application to the RAF AIDU at Northolt (see GEN 3.2.3 for address and contact details).

1.3.3 Refer to AD 1.1 subsection 2 for general conditions of use.

1.4 Unlicensed Aerodromes/Heliports

1.4.1 Unlicensed Aerodromes/Heliports are not published in the UK AIP, except as detailed in Paragraph 1.4.2 below, however NOTAM may be issued notifying safety related changes affecting the operating conditions at any unlicensed Aerodrome/Heliport.

1.4.2 Where the CAA has approved a helicopter Point-in Space procedure (PinS) to an unlicensed Aerodrome or Heliport the unlicensed Aerodrome/Heliport will be published in the UK AIP AD 2 or AD 3. All PinS procedures are for use by CAA approved operators only, but details are published in the AIP to make airspace users aware of the presence of a PinS procedure and to assist users in taking appropriate mitigating actions in the vicinity of a PinS.

1.4.3 For further details regarding PinS refer to CAA Publication CAP2520 - Policy and Guidance for the implementation of Point-in-Space Helicopter Operations in the UK.

1.5 Aerodromes/Heliports published in the UK AIP that DO NOT operate under the conditions of IFR or SVFR are considered outside of the scope of aeronautical data quality requirements (ADQ) and are listed here:

Designator	Name
EGSL	ANDREWSFIELD
EGLK	BLACKBUSHE
EGCK	CAERNARFON
EGLJ	CHALGROVE
EGBC	CHELTENHAM HELIPORT
EGHR	CHICHESTER/GOODWOOD
EGEL	COLL
EGEY	COLONSAY
EGHA	COMPTON ABBAS
EGBE	COVENTRY
EGPG	CUMBERNAULD
EGLD	DENHAM
EGBD	DERBY

AD 1.4 GROUPING OF AERODROMES/HELIPORTS (continued)

Designator	Name
EGTU	DUNKESWELL
EGSU	DUXFORD
EGSR	EARLS COLNE
EGED	EDAY
EGTR	ELSTREE
EGAB	ENNISKILLEN/ST ANGELO
EGEF	FAIR ISLE
EGTF	FAIROAKS
EGCL	FENLAND
EGFE	HAVERFORDWEST
EGBP	KEMBLE
EGKH	LASHENDEN/HEADCORN
EGCM	LEEDS EAST
EGHF	LEE-ON-SOLENT
EGBG	LEICESTER
EGET	LERWICK/TINGWALL
EGLW	LONDON HELIPORT
EGCB	MANCHESTER BARTON
EGNF	NETHERTHORPE
EGAD	NEWTOWNARDS
EGEN	NORTH RONALDSAY
EGBN	NOTTINGHAM
EGEO	OBAN
EGSV	OLD BUCKENHAM
EGTH	OLD WARDEN
EGEP	PAPA WESTRAY
EGHK	PENZANCE HELIPORT
EGPT	PERTH/SCONE
EGKR	REDHILL
EGNE	RETFORD/GAMSTON
EGTO	ROCHESTER
EGES	SANDAY
EGCF	SANDTOFT
EGCJ	SHERBURN-IN-ELMET
EGBS	SHOBDON
EGCV	SLEAP
EGSG	STAPLEFORD
EGER	STRONSAY
EGFH	SWANSEA
EGBM	TATENHILL
EGHO	THRUXTON
EGHT	TRESCO HELIPORT
EGBW	WELLESBOURNE MOUNTFORD
EGCW	WELSHPOOL
EGFA	WEST WALES/ABERPORTH
EGEW	WESTRAY
EGLM	WHITE WALTHAM
EGNW	WICKENBY
EGBO	WOLVERHAMPTON/HALFPENNY GREEN
EGTB	WYCOMBE AIR PARK/BOOKER

AD 1.5 STATUS OF CERTIFICATION OF AERODROMES

Aerodrome name and ICAO Location indicator		Date of certification	Validity of certification	RMK
1		2	3	4
ABERDEEN/DYCE	EGPD	2014-07-31		Valid until: Unlimited
ALDERNEY	EGJA			
ANDREWSFIELD	EGSL	1993-10-22		Valid until: Unlimited
BARRA	EGPR	2009-02-26		Valid until: Unlimited
BELFAST ALDERGROVE	EGAA	2015-03-26		Valid until: Unlimited
BELFAST/CITY	EGAC	2015-09-04		Valid until: Unlimited
BENBECULA	EGPL	2016-09-26		Valid until: Unlimited
BIGGIN HILL	EGKB	2016-09-26		Valid until: Unlimited
BIRMINGHAM	EGBB	2016-06-29		Valid until: Unlimited
BLACKBUSHE	EGLK	2015-01-16		Valid until: Unlimited
BLACKPOOL	EGNH	2014-12-12		Valid until: Unlimited
BOURNEMOUTH	EGHH	2015-03-26		Valid until: Unlimited
BRISTOL	EGGD	2014-07-28		Valid until: Unlimited
CAERNARFON	EGCK	2016-12-06		Valid until: Unlimited
CAMBRIDGE	EGSC	2017-03-09		Valid until: Unlimited
CAMPBELTOWN	EGEC	2017-11-01		Valid until: Unlimited
CARDIFF	EGFF	2016-08-30		Valid until: Unlimited
CHALGROVE	EGLJ	2015-04-15		Valid until: Unlimited
CHICHESTER/GOODWOOD	EGHR	2000-10-10		Valid until: Unlimited
COLL	EGEL	2008-06-05		Valid until: Unlimited
COLONSAY	EGEY	2008-06-05		Valid until: Unlimited
COMPTON ABBAS	EGHA	2009-04-01		Valid until: Unlimited
COVENTRY	EGBE	2016-12-05		Valid until: Unlimited
CRANFIELD	EGTC	2015-12-21		Valid until: Unlimited
CUMBERNAULD	EGPG	1997-11-03		Valid until: Unlimited
DENHAM	EGLD	1988-06-24		Valid until: Unlimited
DERBY	EGBD	1995-11-03		Valid until: Unlimited
DUNDEE	EGPN	2017-12-14		Valid until: Unlimited
DUNKESWELL	EGTU	1983-05-11		Valid until: Unlimited
DUXFORD	EGSU	2016-04-12		Valid until: Unlimited
EARLS COLNE	EGSR	2005-10-26		Valid until: Unlimited
EAST MIDLANDS	EGNX	2016-02-01		Valid until: Unlimited
EDAY	EGED	1983-11-16		Valid until: Unlimited
EDINBURGH	EGPH	2014-12-19		Valid until: Unlimited
ELSTREE	EGTR	1996-10-24		Valid until: Unlimited
ENNISKILLEN/ST ANGELO	EGAB	2013-03-07		Valid until: Unlimited
EXETER	EGTE	2015-07-01		Valid until: Unlimited
FAIR ISLE	EGEF	2008-12-04		Valid until: Unlimited
FAIROAKS	EGTF	2015-02-11		Valid until: Unlimited
FARNBOROUGH	EGLF	2017-07-03		Valid until: Unlimited
FENLAND	EGCL	2001-05-25		Valid until: Unlimited
GLASGOW	EGPF	2016-02-29		Valid until: Unlimited
GLOUCESTERSHIRE	EGBJ	2018-11-22		Valid until: Unlimited
GUERNSEY	EGJB			
HAVERFORDWEST	EGFE	2000-11-21		Valid until: Unlimited
HAWARDEN	EGNR	2016-01-06		Valid until: Unlimited
HUMBERSIDE	EGNJ	2016-01-15		Valid until: Unlimited
INVERNESS	EGPE	2015-06-02		Valid until: Unlimited
ISLAY	EGPI	2017-11-01		Valid until: Unlimited
ISLE OF MAN	EGNS			
JERSEY	EGJJ			
KEMBLE	EGBP	2015-01-09		Valid until: Unlimited
KIRKWALL	EGPA	2017-11-01		Valid until: Unlimited
LAND'S END	EGHC	2014-06-26		Valid until: Unlimited
LASHENDEN/HEADCORN	EGKH	2005-12-12		Valid until: Unlimited

AD 1.5 STATUS OF CERTIFICATION OF AERODROMES (continued)

Aerodrome name and ICAO Location indicator		Date of certification	Validity of certification	RMK
1		2	3	4
LEE-ON-SOLENT	EGHF	2017-02-20		Valid until: Unlimited
LEEDS BRADFORD	EGNM	2016-11-07		Valid until: Unlimited
LEEDS EAST	EGCM	2017-04-28		Valid until: Unlimited
LEICESTER	EGBG	2010-12-14		Valid until: Unlimited
LERWICK/TINGWALL	EGET	2014-03-17		Valid until: Unlimited
LIVERPOOL	EGGP	2015-11-25		Valid until: Unlimited
LONDON CITY	EGLC	2016-02-22		Valid until: Unlimited
LONDON GATWICK	EGKK	2014-10-10		Valid until: Unlimited
LONDON HEATHROW	EGLL	2016-04-06		Valid until: Unlimited
LONDON LUTON	EGGW	2016-05-24		Valid until: Unlimited
LONDON STANSTED	EGSS	2016-03-18		Valid until: Unlimited
LONDONDERRY/EGLINTON	EGAE	2016-09-23		Valid until: Unlimited
LYDD	EGMD	2008-03-10		Valid until: Unlimited
MANCHESTER	EGCC	2015-03-02		Valid until: Unlimited
MANCHESTER BARTON	EGCB	2009-07-16		Valid until: Unlimited
NETHERTHORPE	EGNF	2009-10-23		Valid until: Unlimited
NEWCASTLE	EGNT	2015-01-27		Valid until: Unlimited
NEWQUAY	EGHQ	2015-09-14		Valid until: Unlimited
NEWTOWNARDS	EGAD	2001-12-21		Valid until: Unlimited
NORTH RONALDSAY	EGEN	2012-11-13		Valid until: Unlimited
NORWICH	EGSH	2014-09-24		Valid until: Unlimited
NOTTINGHAM	EGBN	2014-10-10		Valid until: Unlimited
OBAN	EGEO	2008-06-05		Valid until: Unlimited
OLD BUCKENHAM	EGSV	2013-11-18		Valid until: Unlimited
OLD WARDEN	EGTH	2019-05-01		Valid until: 2020-04-30
OXFORD	EGTK	2016-04-29		Valid until: Unlimited
PAPA WESTRAY	EGEP	1983-11-16		Valid until: Unlimited
PERTH/SCONE	EGPT	2000-01-21		Valid until: Unlimited
PRESTWICK	EGPK	2014-11-03		Valid until: Unlimited
REDHILL	EGKR	1988-04-14		Valid until: Unlimited
RETFORD/GAMSTON	EGNE	1995-08-09		Valid until: Unlimited
ROCHESTER	EGTO	2012-12-05		Valid until: Unlimited
SANDAY	EGES	1983-11-16		Valid until: Unlimited
SANDTOFT	EGCF	2015-11-18		Valid until: Unlimited
SCILLY ISLES/ST MARY'S	EGHE	1993-02-12		Valid until: Unlimited
SHERBURN-IN-ELMET	EGCJ	2003-02-13		Valid until: Unlimited
SHOBDON	EGBS	1993-03-18		Valid until: Unlimited
SHOREHAM	EGKA	2014-09-10		Valid until: Unlimited
SLEAP	EGCV	2009-10-23		Valid until: Unlimited
SOUTHAMPTON	EGHI	2014-08-27		Valid until: Unlimited
SOUTHEND	EGMC	2016-06-13		Valid until: Unlimited
ST ATHAN	EGSY	2019-03-27		Valid until: Unlimited
STAPLEFORD	EGSG	1982-06-25		Valid until: Unlimited
STORNOWAY	EGPO	2017-11-01		Valid until: Unlimited
STRONSAY	EGER	1983-11-16		Valid until: Unlimited
SUMBURGH	EGPB	2017-11-01		Valid until: Unlimited
SWANSEA	EGFH	2007-03-05		Valid until: Unlimited
TATENHILL	EGBM	2009-06-17		Valid until: Unlimited
TEESSIDE INTERNATIONAL	EGNV	2015-11-25		Valid until: Unlimited
THRUXTON	EGHO	2011-11-03		Valid until: Unlimited
TIREE	EGPU	2017-11-01		Valid until: Unlimited
WALNEY	EGNL	2006-01-13		Valid until: Unlimited
WARTON	EGNO	2013-01-23		Valid until: Unlimited
WELLESBOURNE MOUNTFORD	EGBW	1988-02-24		Valid until: Unlimited
WELSHPOOL	EGCW	2007-11-23		Valid until: Unlimited

AD 1.5 STATUS OF CERTIFICATION OF AERODROMES (continued)

Aerodrome name and ICAO Location indicator		Date of certification	Validity of certification	RMK
1		2	3	4
WEST WALES/ABERPORTH	EGFA	2017-10-24		Valid until: Unlimited
WESTRAY	EGEW	1983-11-16		Valid until: Unlimited
WHITE WALTHAM	EGLM	1996-03-01		Valid until: Unlimited
WICK	EGPC	2016-01-12		Valid until: Unlimited
WICKENBY	EGNW	2015-09-24		Valid until: Unlimited
WOLVERHAMPTON/HALFPENNY GREEN	EGBO	2009-04-01		Valid until: Unlimited
WYCOMBE AIR PARK/BOOKER	EGTB	1984-05-18		Valid until: Unlimited
YEOVIL/WESTLAND	EGHG	2017-01-06		Valid until: Unlimited

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AD 2 AERODROMES
EGPD — ABERDEEN/DYCE

EGPD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPD — ABERDEEN/DYCE

EGPD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 571209N Long: 0021153W
2	Direction and distance from city	5 NM NW of Aberdeen.
3	Elevation / Reference temperature / Mean Low Temperature	215 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	164 FT
5	Magnetic Variation / Annual Change	0.91°W (2022) / 0.23°E
6	AD Administration Address Telephone Telefax	ABERDEEN INTERNATIONAL AIRPORT LTD. Aberdeen International Airport, Dyce, Grampian, AB21 7DU. 01224-725060 (Aberdeen International Airport Ltd) 01224-723714 (NATS Ltd) 01224-727176 (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone calls to ATC may be recorded.

EGPD AD 2.3 OPERATIONAL HOURS

1	AD Administration	0600-2230 (0500-2130). PPR outside of these hours.
2	Customs and immigration	Immigration: 0700-2300 (0600-2200). Customs: 0700-2300 (0600-2200). Outside of these hours see remarks.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18.
8	Fuelling	North Air: 0530-2300 (0430-2200) (AVTUR JET A-1). Signature: 0630-2130 (0530-2030) (AVGAS 100LL and AVTUR JET A-1). See Remarks.
9	Handling	See AD 2.4.
10	Security	
11	De-icing	See AD 2.4.
12	Remarks	Aerodrome Operator: Delayed fixed-wing aircraft scheduled to operate 0600-2230 (0500-2130) must request extended opening by 2100 (2000). All other fixed-wing traffic must request extended opening with at least 24 hours notice. Fixed-wing aircraft operating between 2300-0600 (2200-0500) must be Quota Category 4 or below as defined in the Department for Transport, Noise Restrictions Notice for London Airports published bi-annually as a Supplement. Customs/Immigration: Prior arrangement required before 2100 (2000) for scheduled delayed flights (international flights and domestic flights carrying interlined international passengers and their effects). Nonscheduled flights require prior arrangement with a minimum of 24 hours notice. Fuelling: Outside of operational hours AVTUR JET A-1 and AVGAS 100LL available by arrangement with Signature on 01224-723636.

EGPD AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement with Swissport.

2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	
4	De-icing facilities	By arrangement with nominated handling agent.
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	All aircraft must have a handling agent appointed prior to arrival/departure. Handling agencies are: Dalcross Handling: Tel: 01224-348517; Fax: 01224-348515; E-mail: abzops@dalcrosshandling.com; SITA: ABZDHXH; Frequency: 131.415 MHz Signature: Tel: 01224-723636; Fax: 01224-725458; SITA: ABZECXH; Frequency: 131.615 MHz Operators must include Aberdeen Airport SITA address of ABZPA7X for all flights inbound to Aberdeen.

EGPD AD 2.5 PASSENGER FACILITIES

1	Hotels	Eight Hotels, 500 metres.
2	Restaurants	Restaurant and bar.
3	Transportation	Buses, taxis and car hire. Nearest railway station Dyce 2 NM.
4	Medical facilities	First aid treatment.
5	Bank and Post Office	Bureau de Change
6	Tourist Office	
7	Remarks	

EGPD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8 available by arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Yes. Contact: 01224-725793 or 01224-725055.
4	Remarks	

EGPD AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Manoeuvring Area: Mechanical, Chemical de-icing. Apron Walkways: Chemical/granule de-icing.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Latest information from: Airside Operations; Tel: 01224-725055; ATC Tel: 01224-727160.

EGPD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	ECHO APRON Surface: Concrete and asphalt MAIN APRON Surface: Concrete and asphalt
2	Taxiway width, surface and strength	Taxiway ECHO: 15 M Surface: Asphalt Taxiway MIKE: 23 M Surface: Concrete and asphalt
3	Altimeter checkpoint location and elevation	Main Apron 204 FT Echo Apron 188 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	

EGPD AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1A, 7A, 10A, 10L, 10R, 30 and 31 available under marshaller guidance only. Stand Guidance System on all other stands and Stop arrows (on Stands 6-14 and 17). Parking guidance facilities to be used from P1. In some strong light conditions, pilots may experience glare on Safedock system (Stands 1-5, 15 and 16). If unable to correctly interpret Safedock guidance, pilots must request marshalling assistance.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 16/34: Runway designation, runway threshold, runway edge lines and lights, runway/taxiway centreline, fixed distance, touchdown. Taxiway marking aid(s): Yellow centre-line paint marking. Taxiway light(s): Green centre-line on Taxiways Alpha, Charlie, Delta and Mike, blue edge lights and/or reflective markers on other taxiways.
3	Stop bars and runway guard lights (if any)	Red stop bars are located at holding points A4, C3, D2, E1, E2, E3, E4, E5, E6, E7, E8, E9, M1, M5, M7 and M9 and are in use at all times during the hours of ATC operation. No aircraft is to cross a red stop bar unless given a specific instruction to do so under escort from an Airside Operations vehicle.
4	Other runway protection measures	
5	Remarks	Aircrews are to note that the Stand Entry Guidance is activated by Airline and Handling Agent staff as prescribed in CAP 642. Aircrew should not enter the stand unless the stand guidance is illuminated or if advised that it is unserviceable, under marshaller guidance only. An emergency stop sign has also been installed on all SEG equipped stands. When activated, an electronic red flashing 'STOP' warning sign is illuminated. Aircraft must not enter the stand under any circumstances until the sign has been switched off. Runway 05/23, Runway 14/32 and Runway 36 Helistrip designators and aiming point marked (Runway 23 only). Three WDI: 571143.71N 0021124.09W (LGTD) - 571228.15N 0021222.45W (LGTD) - 571209.15N 0021211.76W (LGTD).

EGPD AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPD5506) 16/APPROACH 34/ TAKE-OFF	BG CHIMNEY	571302.52N 0021246.17W	262 FT	26 FT	No	
(EGPD14320) 16/APPROACH 34/ TAKE-OFF	LLZ 34	571249.49N 0021222.22W	231 FT	8 FT	Yes Red	
(EGPD14438) 16/APPROACH 34/ TAKE-OFF	NFM 34	571246.78N 0021221.43W	227 FT	5 FT	No	
(EGPD14326) 32/APPROACH 14/ TAKE-OFF	GP MAST 34	571152.10N 0021132.95W	234 FT	34 FT	Yes Red	
(EGPD5957) 34/APPROACH 16/ TAKE-OFF	BEAM SENSOR 2	571130.97N 0021131.23W	242 FT	7 FT	No	
(EGPD5819) 34/APPROACH 16/ TAKE-OFF	BUILDING	571127.70N 0021131.60W	250 FT	8 FT	No	
(EGPD14439) 34/APPROACH 16/ TAKE-OFF	NFM 16	571127.47N 0021122.89W	238 FT	5 FT	No	
(EGPD14318) 34/APPROACH 16/ TAKE-OFF	LLZ 16	571125.22N 0021120.03W	243 FT	11 FT	Yes Red	
(EGPD13613) 34/APPROACH 16/ TAKE-OFF	TREE	571021.18N 0021012.55W	400 FT	71 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPD13251)	HV PYLON	571607.84N 0020913.11W	649 FT	152 FT	No	
(EGPD13466)	MAST	571020.91N 0021423.98W	1028 FT	163 FT	Yes Red	
(EGPD13684)	MAST	570948.32N 0020857.30W	642 FT	217 FT	Yes Red	

EGPD AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 24 hours.
4	Trend forecast Interval of issuance	TREND 30 minutes.
5	Briefing/consultation provided	Self-briefing/Telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English
7	Charts and other information available for briefing or consultation	Available on the Met Office website, www.metoffice.gov.uk/aviation.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	ABERDEEN/DYCE
10	Additional information (limitation of service, etc.)	

EGPD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05	046.47°	477 x 46 M	RWY surface: Asphalt	571214.78N 0021205.93W 163.6 FT	THR 203.9 FT	
23	226.48°	477 x 46 M	RWY surface: Asphalt	571225.40N 0021145.34W 163.6 FT	THR 189.0 FT	
14	139.13°	581 x 36 M	RWY surface: Asphalt	571211.28N 0021203.18W 163.6 FT	THR 202.5 FT	
32	319.13°	581 x 36 M	RWY surface: Asphalt	571157.08N 0021140.54W 163.6 FT	THR 196.6 FT	
16	158.17°	1953 x 46 M	RWY surface: Asphalt, Grooved PCN 56/F/B/X/T	571238.05N 0021215.00W 163.6 FT	THR 204.6 FT TDZ 204.6 FT	
34	338.18°	1953 x 46 M	RWY surface: Asphalt, Grooved PCN 56/F/B/X/T	571139.43N 0021131.74W 163.6 FT	THR 215.4 FT TDZ 215.4 FT	
36	359.00°	570 x 36 M	RWY surface: Asphalt	571216.36N 0021206.24W 163.6 FT	THR 202.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 05 Helicopter Runway. Strip Dimensions: 485 X 24 M. The width of the portion of Runway 05/23 that lies west of Runway 16/34 has a reduced width of 23 M (11.5 M either side of the centre-line of the runway). The section of Runway 05/23 that crosses Runway 16/34 and lies east of Runway 16/34 remains 46 M wide.
						RWY 23 Helicopter Runway. Strip Dimensions: 485 X 46 M. The width of the portion of Runway 05/23 that lies west of Runway 16/34 has a reduced width of 23 M (11.5 M either side of the centre-line of the runway). The section of Runway 05/23 that crosses Runway 16/34 and lies east of Runway 16/34 remains 46 M wide.
		589 x 45 M				RWY 14 Helicopter Runway.
		589 x 45 M				RWY 32 Helicopter Runway.
	199 x 140 M	2073 x 280 M	240 x 92 M -			RWY 16
	138 x 140 M	2073 x 280 M	240 x 92 M -			RWY 34 The downslope gradient over the first 400 M of LDA : Runway 34 is 0.83%.
		579 x 45 M				RWY 36 Helicopter Runway.

EGPD AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
16	1953 M	2152 M	1953 M	1953 M	Declared TORA commences at location of threshold lights. Soil erosion strip beyond must not be used for aircraft movement.
34	1953 M	2091 M	1953 M	1953 M	Declared TORA commences at location of threshold lights. Soil erosion strip beyond must not be used for aircraft movement.
16	1830 M	2030 M	1830 M		Take-off from intersection with Holds M7 and E9.
16	1312 M	1511 M	1312 M		Take-off from intersection with Runway 23.
16	629 M	829 M	629 M		Take-off from intersection with Runway 32, using the H32 designator as a visual reference point when lining up for departure.
34	1339 M	1477 M	1339 M		Take-off from intersection with Runway 32.
34	689 M	828 M	689 M		Take-off from intersection with Runway 23, using the H23 designator as a visual reference point when lining up for departure.

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05		414 M H - 477 M			Helicopter Runway
14		506 M H - 581 M			Helicopter Runway
23				477 M H - 220 M	Helicopter Runway Restricted landing distance when used independently of Runway 16.
32				581 M	Helicopter Runway
36		580 M H - 260 M			Helicopter Runway

EGPD AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
23	Runway 23 White touchdown square with green lights.	White	HAPI Left/6° 210 M			Omni-directional White			THR: White touchdown square with green lights.
16	Coded centre-line five crossbars. 915 M Light intensity high	Green With green wingbars	PAPI Right/3° 52 FT 341 M		Colour coded Full length 15 M spacing	Variable intensity Bi-directional Flush fitting	Red		
34	Coded centre-line five crossbars. 915 M Light intensity high	Green With green wingbar	PAPI Left/3° 51 FT 375 M		Colour coded Full length 15 M spacing.	Variable intensity Bi-directional Flush fitting	Red		

EGPD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Runway 16: 571227.82N 0021159.28W (LGTD); Runway 34: 571144.99N 0021141.88W (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Uninterruptable Power Supply and generator / Immediate.
5	Remarks	Apron floodlighting on Stands 1-17 and Stands 30-31.

EGPD AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGPD AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ABERDEEN CTR 572100N 0023356W - 572100N 0015802W - 571522N 0015428W thence clockwise by the arc of a circle radius 10 NM centred on 571207N 0021152W to 570850N 0022913W - 571520N 0023326W thence clockwise by the arc of a circle radius 10 NM centred on 571834N 0021602W to 572100N 0023356W	Upper limit: FL115 Lower limit: SFC	D	ABERDEEN APPROACH English	6000 FT		The Airspace remains notified even though the Controlling Authority may not be monitoring the frequency at all times. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
ABERDEEN ATZ A circle, 2.5 NM radius, centred at 571209N 0021153W on longest notified runway (16/34)	Upper limit: 2000 FT AGL Lower limit: SFC	D	ABERDEEN APPROACH English	6000 FT		The Airspace remains notified even though the Controlling Authority may not be monitoring the frequency at all times.

EGPD AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	ABERDEEN APPROACH	119.055 DOC 55 NM/ 25,000 FT.			Service can be provided H24. During the period 2230-0545 (2130-0445) the frequency is not monitored at all times. Frequency normally monitored for: Arrivals - ETA-10 to ATA+10; Departures - ETD-30 to ATD+10.	ATZ hours H24. 121.250 MHz available by prior arrangement with ATC for non-8.33 kHz capable aircraft. Frequency is not continuously monitored when not in use.
TWR	ABERDEEN GROUND	121.705			0600-2130 (0500-2030).	When notified by ATIS, Tower and Radar will be provided as a combined function on frequencies 118.105 and 119.055 using callsigns Aberdeen Tower/Aberdeen Radar. 121.250 MHz available by prior arrangement with ATC for non-8.33 kHz capable aircraft. Frequency is not continuously monitored when not in use.
	ABERDEEN TOWER	118.105 DOC 25 NM/8,000 FT.			Service can be provided H24. During the period 2230-0545 (2130-0445) the frequency is not monitored at all times. Frequency normally monitored for: Arrivals - ETA-10 to ATA+10; Departures - ETD-30 to ATD+10.	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
RADAR	ABERDEEN DIRECTOR	128.305 DOC 25 NM/ 10,000 FT.			As directed by ATC	When notified by ATIS, Tower and Radar will be provided as a combined function on frequencies 118.105 and 119.055 using callsigns Aberdeen Tower/Aberdeen Radar. 121.250 MHz available by prior arrangement with ATC for non-8.33 kHz capable aircraft. Frequency is not continuously monitored when not in use.
	ABERDEEN RADAR	119.055			H24	
ATIS	ABERDEEN INFORMATION	114.300 Broadcast on Aberdeen VOR.			H24	
		121.855			H24	
OTHER	ABERDEEN FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.08°E (2027)	IAX	109.900 MHz	HO	571124.94N 0021121.06W		(RWY 16)
ILS/GP	IAX	333.800 MHz	HO	571228.86N 0021158.98W		3° ILS Ref Datum Hgt 51 FT.
ILS/LOC I 0.07°E (2027)	IABD	109.900 MHz	HO	571249.30N 0021223.32W		(RWY 34) Full fly-up indications may not be achieved, or maintained, when below and to the extreme right of the localiser centre-line.
ILS/GP	IABD	333.800 MHz	HO	571152.05N 0021132.92W		3° ILS Ref Datum Hgt 50 FT.
VOR/DME 0.04°E (2027) 0.37°W (2021)	ADN	90X 114.300 MHz	H24 Hours of operation for aerodrome purposes: HO	571837.62N 0021602.09W	610 FT	VOR/DME DOC: 90 NM/50,000 FT (200 NM/50,000 FT in Sector R045-135).
DME	IAX	36X 109.900 MHz	HO	571204.36N 0021202.34W	224 FT	(RWY 16) On AD. Zero range is indicated at THR of Runway 16.
DME	IABD	36X 109.900 MHz	HO	571152.10N 0021132.82W	217 FT	(RWY 34) On AD. Zero range is indicated at THR of Runway 34.
NDB (L) 0.13°E (2027)	ATF	348.000 kHz	H24	570439.04N 0020620.53W		Range 25 NM.

EGPD AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All flights are subject to the prior approval of the Operations Director, Aberdeen International Airport Ltd and prior notification to Airport Coordination Ltd, who act as an agent for the airport. With the exception of General Aviation and Military flights, requests for ad-hoc slot allocations should be made to ACL during working hours, Mon-Fri 0830-1700 (0730-1600), by e-mail: lonacxh@acl-uk.org; or Tel: 0161-493 1850, Fax: 0161-493 1853, or at all other times to Airside Operations 01224-725055. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com/default.aspx?AspxAutoDetectCookieSupport=1.
b) Use of the aerodrome for training purposes is subject to the prior permission of the Operations Director, Aberdeen International Airport Ltd.
c) Ground running of aircraft engines for test or maintenance is subject to the approval of the Operations Director, Aberdeen International Airport Ltd and shall be kept to the minimum consistent with operational needs. Ground runs are not permitted on Sun 1100-1300 (1000-1200).
d) Ambulance, Offshore Emergency and Medivac flights (including helicopters) are not subject to the restrictions as detailed in AD 2.3 Item 1 and Item 12 (paragraph 1).
e) Non-radio aircraft subject to PPR from ATC.
f) Use of APUs on Echo Apron is restricted to +/- 45 minutes from arrival or departure. Beyond this time, aircraft requiring power must use Ground Power Units arranged through the ground handling company.
g) Flight Planning: Any Flight Plan requiring submission must be faxed to ATC: 01224-727170. The Flight Plan Form (CA48/RAF F2919) must also contain a contact telephone number.

Note: *Any Flight Plans sent to EGPDZPZX for onward transmission will not be actioned.*

2 GROUND MOVEMENT

a) Subject to apron capacity, aircraft not departing within 2 hours may be relocated to a remote parking area.
b) Only aircraft with a wingspan of 19 M or less are permitted to self manoeuvre on Stands 1 to 16, under marshaller guidance. Ground crews must be in attendance at such aircraft that intend to undertake this manoeuvre.
c) Pilots should always use the minimum power necessary when self-manoeuvring their aircraft on all areas of the aerodrome.
d) Standard pushback procedures for Stands 1-17 are:

i. All aircraft must conduct curved pushbacks from Stands 1, 1A, 9, 12, 13 and 14. Curved pushbacks from all other stands available on request with ATC. Aircraft on Stand 16 that require a curved pushback will be instructed to conduct a curved pushback behind Stand 17 to face east, followed by a pull forward manoeuvre behind Stand 15.
ii. Embraer E195-E2 on Stands 2, 3 and 4 and Airbus A321 on Stand 3 to conduct curved pushbacks.
iii. Aircraft of length 44 M or more (Airbus A321 or longer) to conduct a curved pushback from Stand 7 and 7A.
iv. Except as noted in (ii) and (iii), all aircraft from Stands 2, 3, 4, 5, 6, 7, 8, 10, 10L, 10R, 11, 15, 16 and 17 are to conduct straight pushbacks.

Powerback manoeuvres may be conducted from Stands 1-8, 10 (including 10L and 10R), 11 and 15-17 by aircraft of Jetstream 41 size or smaller. Powerbacks are not permitted from Stands 9 and 12-14.

ATC approval for all pushback manoeuvres must be obtained prior to pushback commencing. Pilots must inform ATC if the pushback manoeuvre issued cannot be conducted.

e) Remote hold available at Holding Point D1A (facing west) with the following restrictions:

i. Maximum wingspan size of 36 M. When the remote hold is in use, aircraft with a wingspan greater than 36 M must be escorted past the holding aircraft;
ii. Only one aircraft may use the remote hold at any one time;
iii. Use is granted on a strict order of request basis (to request the facility contact GMC or TWR);
iv. The remote hold is available 0600-0900 (0500-0800) and 2000-2230 (1900-2130) each day and by arrangement with Airside Ops and ATC;
v. ATC may remove the remote hold from use at any time;
vi. When the remote hold is in use, holding points D2 and A4 will not be available for aircraft movement;
vii. Remote hold is not available for use when Low Visibility Procedures are in force.

f) At all times, aircrew are responsible for their wingtip/rotortip separation and, if in any doubt, should stop, hold position and request marshaller assistance.
g) Taxiway Echo movement restrictions:

i. The section of Taxiway Echo between Holding Point E8 and the Compass Base is available to vehicles for non-towing movements only.
ii. Due to a 4% longitudinal slope along the section of Echo Taxiway between the NHV Apron and the Compass Base, all aircraft may taxi to/from the Compass Base from E9 under their own power with caution. During winter operations and periods of adverse weather, Airside Operations may temporarily close this section of taxiway or restrict the use of it to permit only aircraft under tow to access the Compass Base.

h) Holding Point T1 may only be used by aircraft with a wingspan up to 24.8 M.
i) Pilots will be issued with 'Runway in Use' and 'Pressure Setting' information prior to start-up clearance being given. There after, taxi instructions will contain only holding point designators.
j) Full ATC clearance is available from EOBT -15 minutes.
k) Aircraft vacating Runway 16 at Holding point M1 must not taxi beyond Holding point M2 without onward ATC taxi clearance.
l) Simultaneous aircraft movements through Holding points C3 and D2 are not permitted.
m) Pilots taxiing from Stands 30/31 should expect to turn left after leaving the stand onto Taxiway Charlie or Delta (depending on parking direction).
n) Pilots instructed to park on Echo Apron must park under marshaller guidance unless otherwise authorised by Airside Ops.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Except for light signals, ground signals are not displayed.
b) Intensive large helicopter activity.

Light aircraft should be aware of the possible effect of rotor downwash and wake vortices generated by large helicopters operating to/ from the aerodrome.

c) The width of the Taxiway Echo is 15 M and suitable for use by aircraft up to 20 M wingspan only unless under marshaller guidance. Use of Taxiway Alpha between A1 and A2 is restricted to aircraft not exceeding 19.7 M wingspan. The width of Taxiway Charlie between Taxiway Mike and Taxiway Bravo is 7.5 M and suitable for use by helicopters only.
d) PAPI approach slope guidance for Runway 16 should not be used until the aircraft is established on the extended centre-line of the runway.
e) Moderate/severe turbulence and windshear may be experienced on approaches to all runways when the 1000 FT wind exceeds 15 KT from the sector 200° through west to 320°.
f) Owing to the terrain around Bennachie (11 NM NW of Aberdeen Airport), GPWS warnings are possible on intermediate approach to Runway 16 from the south and west.
g) Occasional crane activity at the following positions (all relative to the ARP):

i. 255-280°/1000-1600 M up to 140 FT AGL;
ii. 355°/800-1400 M up to 115 FT AGL.

h) Pilots of aircraft departing from aerodromes located within the Aberdeen CTR must ensure they are in receipt of an explicit controlled airspace entry clearance prior to departure. It should be noted that the passing of flight plan details to ATC does not constitute a request for, or the issue of, a controlled airspace entry clearance.
i) Adverse weather conditions: Increased spacing on final approach may be in operation during periods of adverse weather conditions (cloud ceiling of 300 FT or less and/or IRVR 1000 M or less). Increased periods of holding may be required and operators should fuel plan accordingly.
j) Model aircraft flying at:

i. Haremoss' position 570515N 0020912W, approximately 1.5 NM northwest of Portlethen. Model aircraft not exceeding 13 KG in weight may be operated up to 400 FT AGL, daily, during daylight hours;
ii. Meikle Wartle position 572146N 0022656W and site elevation 420 FT AMSL, approximately 5 NM north-northwest of Inverurie. Model flying may take place above 400 FT AGL.

5 HELICOPTER OPERATIONS

a) Locally based operators may be authorised to carry out landings on Runway 23H independently of operations on Runway 16/34 in accordance with procedures approved by the CAA. The landing distance available for these operations is reduced to 220 M, the end of which is indicated by yellow runway guard lights and the E6 stop bar.
b) Night approaches and landings on Runway 23H are not permitted if the HAPI (Helicopter Approach Path Indicator) is unserviceable. Helicopters approaching Runway 23H must not descend below the HAPI glidepath before crossing the railway.
c) ICAO helicopter rotor clearances require minimum separation distances between the blade tips of two moving helicopters. Adequate separation exists between:

i. A helicopter holding at C3 and a helicopter turning from A4 onto Taxiway Delta;
ii. A helicopter holding at M5 and a helicopter using disused Runway 18;
iii. A helicopter holding at B1 and a helicopter on Taxiway Charlie between C1 and C2.

6 USE OF RUNWAYS

a) Runways 05H/23H, 14H/32H and 36H are only available for helicopter movements.
b) Runway 14/32 is not available for take-off and landing at night. However, ground and hover taxi movements on Runway 14/32 in order to access Runway 16/34 are permitted at night.
c) Runway 36

i. With the exception of paragraph 6c ii, Runway 36 is not available for any aircraft movements at night. Additionally, no aircraft movements on this section of manoeuvring area in the reciprocal direction to Runway 36 are permitted at night.
ii. Movements between Runway 16/34 and Holding Point M5 traverse part of Runway 36. Such movements are permitted at all times.

d) Pilots of departing aircraft must inform ATC if a backtrack is required from their runway holding point. This information should be passed to ATC prior to line up clearance being issued.

7 TRAINING

a) All training flights are subject to approval by ATC. General training flight acceptance policy:

   i. Mon-Fri: Instrument training flights by civil aircraft other than those based at Aberdeen Airport will not be accepted. Circuit training by military aircraft will not be accepted and military practice diversion instrument approaches limited to 0800-2000 (0700-1900) where approved by ATC;
   ii. Sat-Sun: Instrument training flights by civil aircraft are permitted subject to ATC approval. Military practice diversion instrument approaches limited to 0800-2000 (0700-1900) where approved by ATC;
   iii. Daily: Aircraft on EXAM callsigns will be accepted where approved by ATC.

b) Pilots of training aircraft carrying out go-arounds are advised that for the purposes of terrain clearance, that portion of the flight will be treated as a departure.
c) Training may be curtailed if significant noise complaints are received.

EGPD AD 2.21 NOISE ABATEMENT PROCEDURES

All aircraft inbound to or outbound from this aerodrome are required to conform to the following procedures, notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

a) Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
b) Inbound IFR aircraft greater than 5700 KG may conduct Continuous Descent Approaches (CDA) from first contact with Aberdeen ATSU to an altitude of 4000 FT. In order to facilitate CDAs, when in receipt of an Approach Radar service and when ATC workload permits, controllers will attempt to provide appropriate descent instructions and distance from touchdown information on at least two occasions prior to reaching 4000 FT. Additional range checks may be requested by aircrew.

   Actual speed control will be issued by ATC as required for separation and sequencing purposes, however pilots conducting a CDA should expect speed restrictions of 250 KT or less below FL 100, 210 KT or less when 20 NM from touchdown and 160 KT or less when 10 NM from touchdown.

c) IFR aircraft shall not join final approach to either runway at a height of less than 1500 FT Aberdeen QFE unless they are propeller driven aircraft whose MTWA does not exceed 5700 KG when the minimum height shall be 1000 FT Aberdeen QFE.
d) In addition to paragraph 2.21(c), aircraft conducting an instrument approach shall not descend below 1800 FT Aberdeen QFE before intercepting the ILS or norminal glidepath nor thereafter fly below it. Aircraft landing without ILS assistance shall follow a descent path consistant with a 3° glidepath (or the approach procedure recommended profile if different).
e) Approach to Helistrip 23 aiming point should be on a heading of 218° (MAG).
f) Subject to Air Traffic Control requirements and weather conditions

   i. Training circuits should be undertaken to the west of the aerodrome;
   ii. Fixed-wing departures should be on Runway 34. Arrivals should be on Runway 16;

g) Aircraft operating between 2330-0600 (2230-0530) are requested to use minimal reverse thrust for noise abatement where this will not compromise the safe conduct of flight.

EGPD AD 2.22 FLIGHT PROCEDURES

1 HOLDING

a) The main holding pattern will be based on the VOR ADN but ATC may request aircraft to hold at DOWNI, L ATF. Details of all these patterns are as follows.

Holding Point	Details
VOR ADN	Holding axis 159° MAG, turning left at the facility. Lowest holding altitude 2500 FT.
DOWNI (570439N 0020621W)	Holding axis aligned on ADN VOR RDL 160° (Inbound track 340° MAG) between 15 DME ADN (DOWNI) and 20 DME ADN, turning right at the fix. Lowest holding altitude 2500 FT.
L ATF	Holding axis 339° MAG, turning right at the facility. Lowest holding altitude 2500 FT.

2 ENTRY/EXIT LANES

a) To facilitate the operation of aircraft to and from Aberdeen/ Dyce Airport, the following entry/exit lanes have been established for use under the stated conditions and subject to the provisions of the Air Traffic Control rules as stated at ENR 1.4.

i. A lane, 3 NM wide, known as the Peterhead Lane with centre-line from Hackley Head 571949N 0015717W (a point on the Aberdeen CTR boundary) thence southwest along the coast to Bridge of Don, then along the River Don to the point at which it crosses the Aberdeen Aerodrome Traffic Zone;
ii. a lane, 3 NM wide, known as the Stonehaven Lane with centre-line from 565522N 0021200W (a point on the Aberdeen CTA boundary) thence northeast along the coast to Bridge of Don, then along the River Don to the point at which it crosses the Aberdeen Aerodrome Traffic Zone;
iii. a lane, 3 NM wide, known as the Inverurie Lane with centre-line the Aberdeen/Inverness railway line extending from 571931N 0023510W (a point on the western boundary of the Aberdeen CTR) through Inverurie and Kintore to the point at which it crosses the Aberdeen Aerodrome Traffic Zone. Additionally, for aircraft taking-off from Runway 16 or proceeding for a landing on Runway 34, a branch lane of similar width is established with centre-line the A96 road extending from Kintore to the point at which it crosses the Aberdeen Aerodrome Traffic Zone.

b) These lanes are shown at AD 2-EGPD-4-1.

i. Use of the lanes is subject to clearance being obtained from ATC Aberdeen, irrespective of prevailing weather conditions. This clearance is to be obtained by non-radio equipped aircraft before take-off and by radio equipped aircraft before entering the lane.
ii. Aircraft using the lanes must remain clear of cloud and in sight of the ground or water, not above 2000 FT Aberdeen QNH (unless authorised by Aberdeen ATC).
iii. An aircraft using a lane shall keep the centre-line on its left, unless otherwise instructed by ATC.
iv. Pilots of aircraft are responsible for maintaining adequate clearance from the ground or other obstructions.
v. When Runway 34 is in use, pilots operating on the Stonehaven Lane, should expect an ATC clearance to route offshore not above 1000 FT (Aberdeen QNH) when south of Girdleness.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Initial Departure Routings:

i. Pilots can expect that the initial 'after departure' instruction will usually contain a waypoint or heading that is not the first waypoint contained in the flight plan.

b) Pilots of aircraft at intermediate runway holding points that require a runway backtrack for departure should inform ATC prior to lining up on the runway.
c) On first contact with Aberdeen Radar, pilots of departing aircraft are required to report their passing altitude (based on Aberdeen QNH) and cleared altitude or Flight Level.
d) The width of Runway 16/34 is twice that promulgated in two locations due to additional pavement on the east side of the runway. Pilots lining up on Runway 16/34 abeam Holding Points M7 or E9, or at the Runway 34 threshold must ensure they are correctly lined up on the runway centre-line prior to departure.
e) The Preferred Departure Routes specified in the following table are compatible with ATC requirements and the tracks are to be flown by all departing jet aircraft and by all other departing aircraft of more than 5700 KG MTWA unless otherwise instructed by ATC or unless deviations are required in the interests of safety.

Runway	ATC Clearance	Procedures
16	Via P600 GLESK	Climb straight ahead. At ADN DME 8.5 NM or 800 FT AAL whichever is the later, turn right to LAVTI (570818N 0022417W). At LAVTI turn left to GLESK.
16	Via ADN VOR Y904/Y905/P600 LESNI	Climb straight ahead. At ADN DME 8 NM or 600 FT AAL, whichever is the later, turn left to ADN VOR. At ADN VOR turn on course.
34	Via P600 GLESK	Climb straight ahead to 1000 FT AAL. After reaching 1000 FT AAL turn left to GLESK.
34	Via ADN VOR Y904/Y905/P600 LESNI	Climb straight ahead to ADN VOR. At ADN VOR turn on course.

Note: *See AD 2.22 3(a)(i) for additional after departure warning.*

4 ABERDEEN ROYAL INFIRMARY (ARI) OPERATIONS

a) Pilots of aircraft operating to/from ARI should be aware of the potential for conflictions and/or TCAS events to occur with aircraft operating to/from Aberdeen Airport. To reduce conflictions, the following procedures apply:

i. When inbound to ARI, pilots will be issued with departure instructions as follows:

1. For VFR departures: Hold overhead ARI not above 500 FT on Aberdeen QNH until in two way communication with ATC;
2. For Special VFR departures: Contact ATC by telephone when on the ground to obtain clearance.

ii. In the case of (b) pilots may attempt to contact ATC via RTF to obtain a clearance but if unable to establish two-way communications shall telephone 01224-727159 to pass flight details. A departure clearance will be issued with a departure time window (normally ETD to ETD +5, but will be subject to other traffic). Pilots unable to comply with this time window must telephone the number above to renegotiate the ETD.

b) Pilots must not depart from ARI unless in possession of a departure clearance from ATC.

5 VFR FLIGHTS

a) Pilots intending to conduct survey, inspection or photographic flights within Aberdeen CTR are requested to contact Aberdeen ATC on 01224-727160 prior to departure.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

7 HELICOPTER ROUTES

a) **Arrivals**

Runway 16 in use

Approach	Via	Route
IFR Including Track WHISKEY	HMRI 026 to 086	Track WHISKEY to Hackley Head then as directed by radar to ILS 16.
	HMRI 092 and greater	ADN DME 30 direct to Hackley Head then as directed by radar to ILS 16.
VFR/Special VFR	HMRI 026 to 086 plus Sumburgh	Track WHISKEY to Hackley Head - cross Hackley Head not above 1000 FT* - direct to join circuit.
Including Track WHISKEY	HMRI 092 only	30 NM - direct Hackley Head cross Hackley Head not above 1000 FT* - direct to join circuit.
	HMRI 092 and greater	30 NM - direct to GORSE then BOD. Cross BOD not above 1500 FT then join circuit. (*Note: 1500 FT at night, subject to the issue of an appropriate ATC clearance.)

Runway 34 in use

Approach	Via	Route
IFR Including Track ECHO	HMRI 026 to 086	Track ECHO to GORSE then as directed by radar to ILS 34.
	HMRI 092 and greater	ADN DME 30 direct to GORSE then as directed by radar to ILS 34.
VFR/Special VFR Including Track ECHO	HMRI 026 to 062 plus Sumburgh	Track ECHO to ATSIB (572629N 0014337W) - VANOR (571408N 0020304W). Cross VANOR not above 1000 FT* pass south of Corby Loch to join circuit.
	HMRI 068 to 086	30 NM direct to ATSIB (572629N 0014337W) - VANOR (571408N 0020304W). Cross VANOR not above 1000 FT* pass south of Corby Loch to join circuit.
	HMRI 092 and greater	30 NM - direct to GSE then to BOD. Cross GSE not above 1500 FT then join circuit. (*Note: 1500 FT at night, subject to the issue of an appropriate ATC clearance.)

b) **Departure**

Runway 16 in use

Standard Departure	Route	Altitude	HMRI
SPIKE IFR	After noise abatement, turn left to VANOR, then to SPIKE. After SPIKE, route via Track ECHO to intercept HMRI.	Cross VANOR at 3000 FT.	For HMRI 023 to 053 and Sumburgh.
SHRUB IFR	After noise abatement, turn left to SHRUB. After SHRUB intercept HMRI at 40 NM.	Climb to 3000 FT level by the coast.	For HMRI 059 to 101.
GORSE IFR	After noise abatement turn left to Bridge of Don then to GORSE, then to intercept the HMRI at 40 NM.	Cross BOD 3000 FT.	For HMRI 107 and greater.
ATSIB VFR/Special VFR	After noise abatement, turn left to pass south of Corby Loch via VANOR to ATSIB. Traffic for HMRI 045 to 104 route direct from ATSIB to intercept HMRI at 40 NM, north of HMRI 045 follow track ECHO to intercept HMRI.	Not above 1000 FT* to VANOR. After VANOR not above 1000 FT* or as directed by ATC. (*Note: 1500 FT at night, subject to the issue of an appropriate ATC clearance).	For HMRI 101 and less including Sumburgh.
GORSE VFR/Special VFR	After noise abatement, turn left to Bridge of Don then to GORSE, then to HMRI at 40 NM.	Not above 1500 FT to Bridge of Don. After Bridge of Don not above 1500 FT or as directed by ATC.	For HMRI 107 and greater.

Runway 34 in use

Standard Departure	Route	Altitude	HMRI
PETOX IFR	After noise abatement turn right to PETOX, to intercept the HMRI radial south of PETOX, or after PETOX via track WHISKEY to intercept the HMRI, or continue on track to Sumburgh.	Intercept the HMRI radial at 3000 FT or cross PETOX at 3000 FT.	For HMRI 071 and less.
Forties IFR	After noise abatement, turn right to NOBAL, After NOBAL intercept the HMRI at 40 NM DME.	Cross NOBAL at 3000 FT.	For HMRI 077 and greater.
SPIKE VFR/Special VFR	After noise abatement turn right to Hackley Head then direct to SPIKE then track ECHO to HMRI (or HMRI enroute to SPIKE).	Not above 1000 FT* to Hackley Head. After Hackley Head not above 1000 FT* or as directed by ATC. (*Note: 1500 FT at night, subject to the issue of an appropriate ATC clearance.)	For HMRI 071 and less, including Sumburgh.
HACKLEY VFR/Special VFR	After noise abatement turn to Hackley Head to HMRI at 40 NM.	Not above 1000 FT* to Hackley Head. After Hackley Head not above 1000 FT* or as directed by ATC. (*Note: 1500 FT at night, subject to the issue of an appropriate ATC clearance.)	For HMRI 077 and greater.

8 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the Aberdeen area of responsibility, but intending to remain outside Class D airspace within the area bounded by the following coordinates and maintaining a listening watch only on Aberdeen Radar frequency, 119.055 MHz, are encouraged to select SSR code 4270.

564236N 0022113W - thence clockwise by the arc of a circle radius 30 NM centred on 571209N 0021153W to 573600N 0013814W - 564236N 0022113W.

b) Selection of 4270 does not imply the receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Class D airspace at all times.
c) Whilst squawking 4270, pilots should be aware that Aberdeen Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 4270 shall be deselected.

EGPD AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGPD AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPD-2-1
AIRCRAFT MOVEMENT/PARKING/DOCKING - ICAO
AD 2.EGPD-2-2
GROUND MOVEMENT CHART - CENTRAL TAXIWAY
AD 2.EGPD-2-3
HELICOPTER ROUTE STRUCTURE IN VICINITY OF ABERDEEN - RWY 16
AD 2.EGPD-3-1
HELICOPTER ROUTE STRUCTURE IN VICINITY OF ABERDEEN - RWY 34
AD 2.EGPD-3-2
CLASS D AIRSPACE CHART - ENTRY/EXIT LANES and VRPs
AD 2.EGPD-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGPD-5-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - TEXT
AD 2.EGPD-5-2
INSTRUMENT APPROACH CHART ILS/DME RWY 16 - ICAO
AD 2.EGPD-8-1
INSTRUMENT APPROACH CHART LOC/DME RWY 16 - ICAO
AD 2.EGPD-8-2
INSTRUMENT APPROACH CHART VOR/DME RWY 16 - ICAO
AD 2.EGPD-8-3
INSTRUMENT APPROACH CHART ILS/DME RWY 34 - ICAO
AD 2.EGPD-8-4
INSTRUMENT APPROACH CHART LOC/DME RWY 34 - ICAO
AD 2.EGPD-8-5
INSTRUMENT APPROACH CHART VOR/DME RWY 34 - ICAO
AD 2.EGPD-8-6
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 34 - ICAO
AD 2.EGPD-8-7

EGPD AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

AERODROME CHART - ICAO

ARP 571209N 0021153W

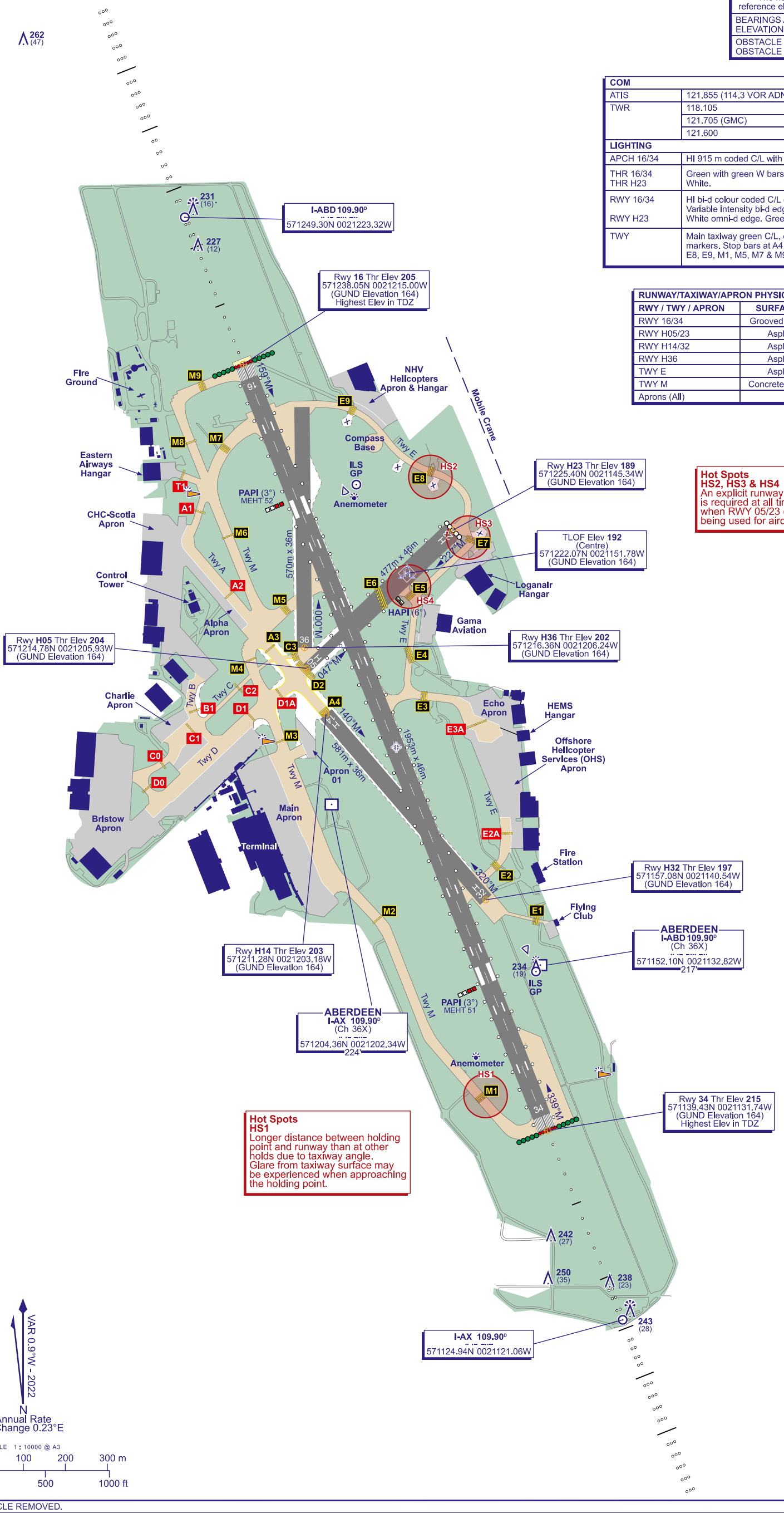
AD ELEV 215 ft

ABERDEEN/DYCE
EGPD

GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference ellipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS ARE IN FEET	
OBSTACLE ELEVATIONS IN FEET AMSL OBSTACLE HEIGHTS IN FEET ABOVE AD	296 (81)

COM		
ATIS	121.855 (114.3 VOR ADN)	ABERDEEN INFO
TWR	118.105	ABERDEEN TOWER
	121.705 (GMC)	ABERDEEN GROUND
	121.600	ABERDEEN FIRE
LIGHTING		
APCH 16/34	HI 915 m coded C/L with 5 Bar.	
THR 16/34 THR H23	Green with green W bars. White.	
RWY 16/34 RWY H23	HI bi-d colour coded C/L (15 m spacing). Variable intensity bi-d edge. End lights red. White omni-d edge. Green touchdown square.	
TWY	Main taxiway green C/L, others blue edge lights/reflective markers. Stop bars at A4, C3, D2, E1, E2, E3, E4, E6, E7, E8, E9, M1, M5, M7 & M9.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	**SURFACE**	**PCN**	**PCR**
RWY 16/34	Grooved Asphalt	56/F/B/X/T	-
RWY H05/23	Asphalt	-	-
RWY H14/32	Asphalt	-	-
RWY H36	Asphalt	-	-
TWY E	Asphalt	-	-
TWY M	Concrete/Asphalt	-	-
Aprons (All)	*See AD 2-EGPD-2-2*		



Hot Spots
HS2, HS3 & HS4
An explicit runway entry clearance is required at all times, including when RWY 05/23 (East of E6) is being used for aircraft parking.

Hot Spots
HS1
Longer distance between holding point and runway than at other holds due to taxiway angle.
Glare from taxiway surface may be experienced when approaching the holding point.

CHANGE (10/25): OBSTACLE REMOVED.

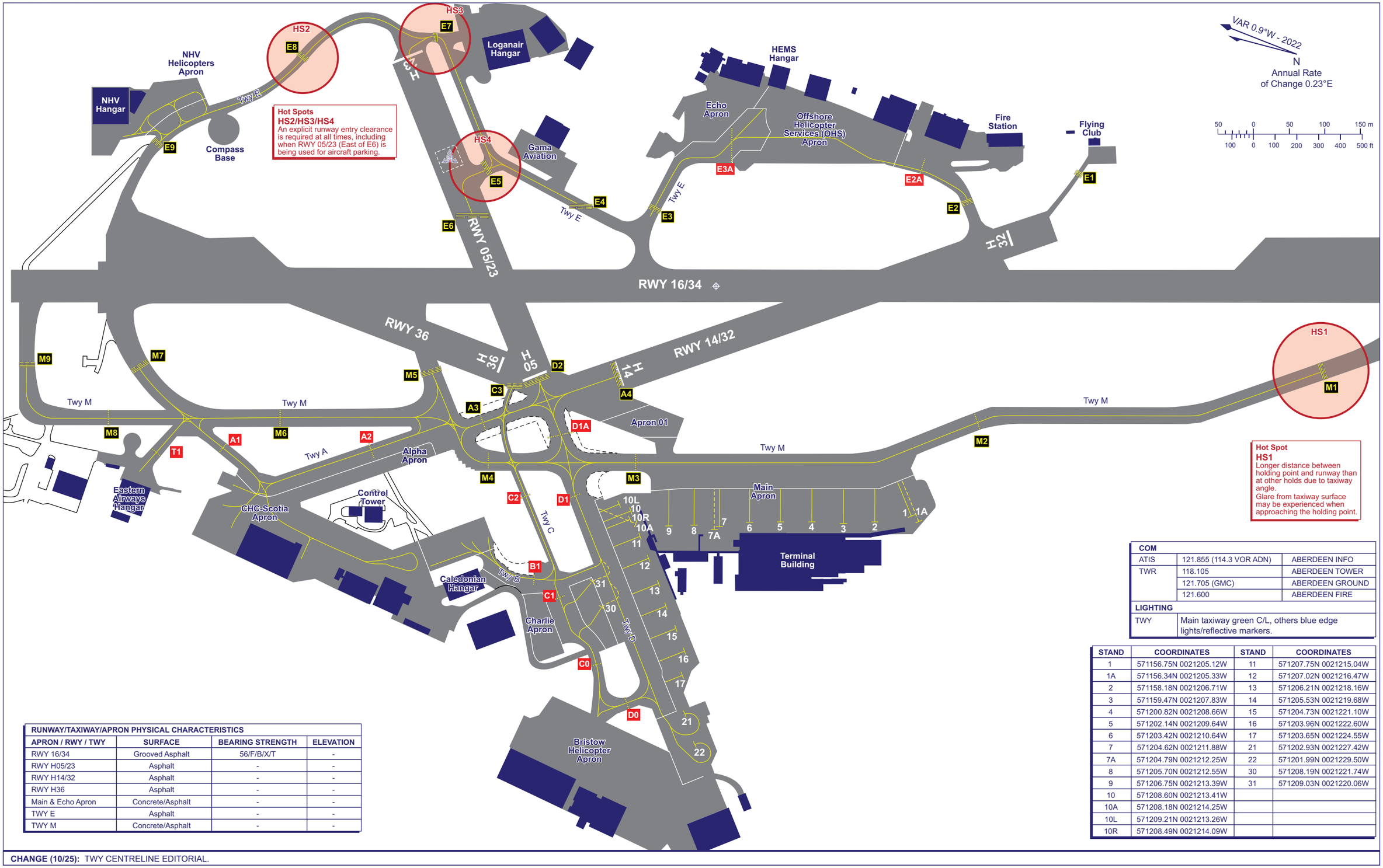
AERO INFO DATE 16 JUL 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

ARP 571209N 0021153W

AD ELEV 215FT

ABERDEEN/DYCE
EGPD



Hot Spots
HS2/HS3/HS4
An explicit runway entry clearance is required at all times, including when RWY 05/23 (East of E6) is being used for aircraft parking.

Hot Spot
HS1
Longer distance between holding point and runway than at other holds due to taxiway angle.
Glare from taxiway surface may be experienced when approaching the holding point.

COM		
ATIS	121.855 (114.3 VOR ADN)	ABERDEEN INFO
TWR	118.105	ABERDEEN TOWER
	121.705 (GMC)	ABERDEEN GROUND
	121.600	ABERDEEN FIRE
LIGHTING		
TWY	Main taxiway green C/L, others blue edge lights/reflective markers.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
RWY 16/34	Grooved Asphalt	56/F/B/X/T	-
RWY H05/23	Asphalt	-	-
RWY H14/32	Asphalt	-	-
RWY H36	Asphalt	-	-
Main & Echo Apron	Concrete/Asphalt	-	-
TWY E	Asphalt	-	-
TWY M	Concrete/Asphalt	-	-

STAND	COORDINATES	STAND	COORDINATES
1	571156.75N 0021205.12W	11	571207.75N 0021215.04W
1A	571156.34N 0021205.33W	12	571207.02N 0021216.47W
2	571158.18N 0021206.71W	13	571206.21N 0021218.16W
3	571159.47N 0021207.83W	14	571205.53N 0021219.68W
4	571200.82N 0021208.66W	15	571204.73N 0021221.10W
5	571202.14N 0021209.64W	16	571203.96N 0021222.60W
6	571203.42N 0021210.64W	17	571203.65N 0021224.55W
7	571204.62N 0021211.88W	21	571202.93N 0021227.42W
7A	571204.79N 0021212.25W	22	571201.99N 0021229.50W
8	571205.70N 0021212.55W	30	571208.19N 0021221.74W
9	571206.75N 0021213.39W	31	571209.03N 0021220.06W
10	571208.60N 0021213.41W		
10A	571208.18N 0021214.25W		
10L	571209.21N 0021213.26W		
10R	571208.49N 0021214.09W		

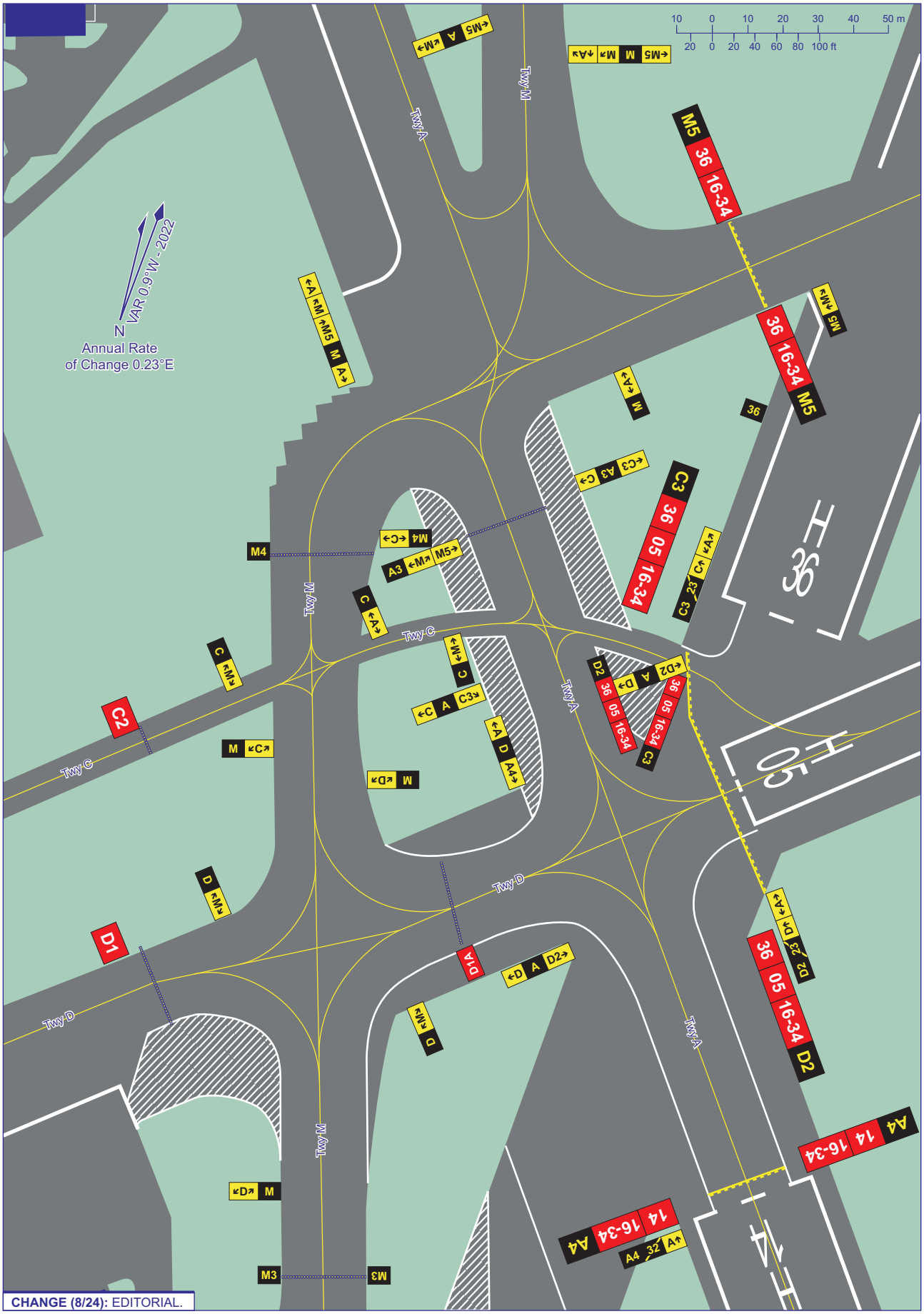
CHANGE (10/25): TWY CENTRELINE EDITORIAL.

AERO INFO DATE 21 JUL 25

GROUND MOVEMENT CHART - ICAO

CENTRAL TAXIWAY

ABERDEEN/DYCE
EGPD



CHANGE (8/24): EDITORIAL.

AERO INFO DATE 22 MAY 24

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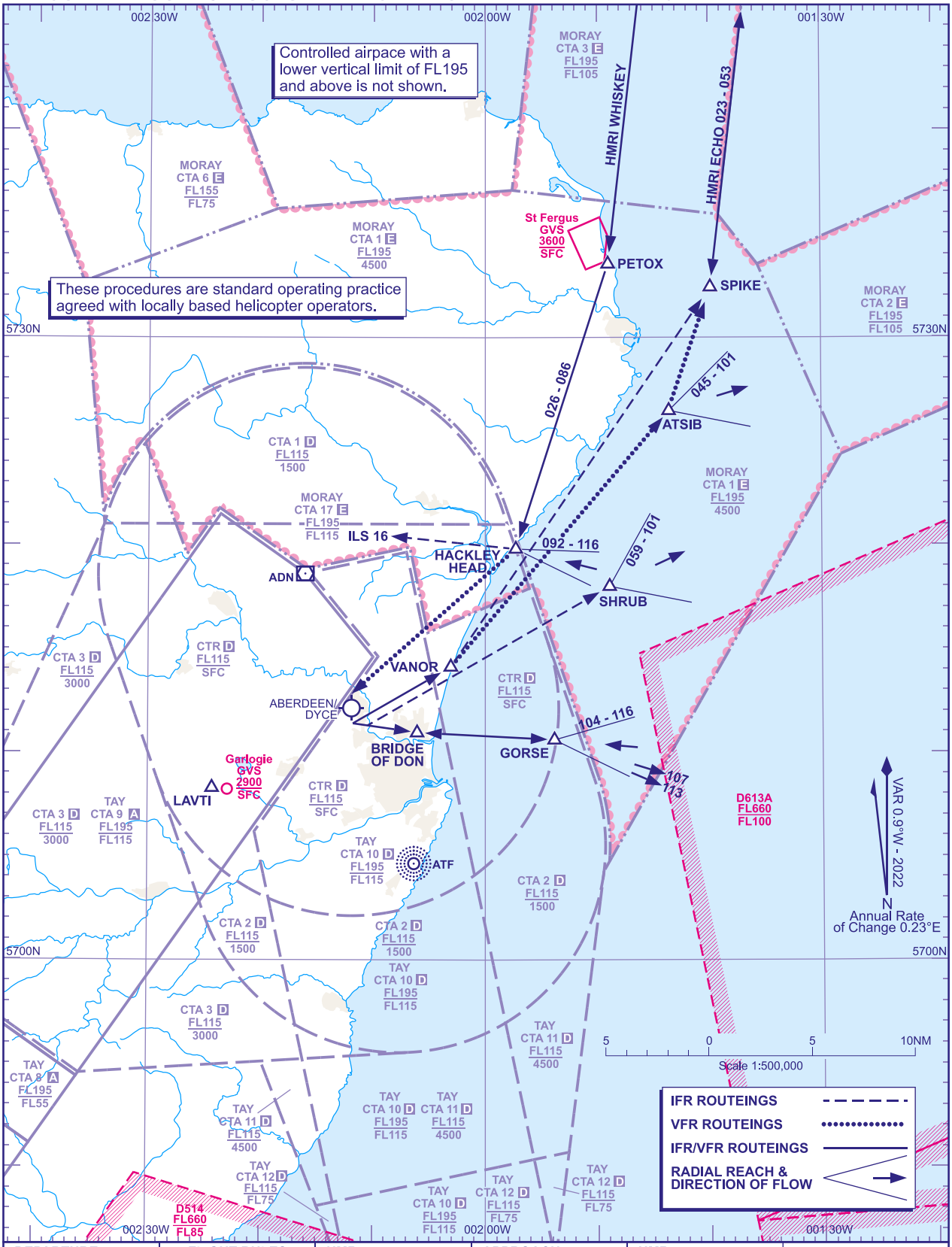
HELICOPTER ROUTE STRUCTURE IN VICINITY OF ABERDEEN - RWY 16

ABERDEEN/DYCE



DEPARTURE	FLIGHT RULES	HMRI	APPROACH	HMRI
SPIKE	IFR	SUM & 023 - 053	IFR	WHISKEY & 026 - 086
SHRUB		059 - 101		092 - 116
GORSE		107 - 113	VFR/SVFR	WHISKEY & 026 - 086
ATSIB	VFR/SVFR	SUM & 023 - 101		092 - 098
GORSE		107 - 113		104 - 116

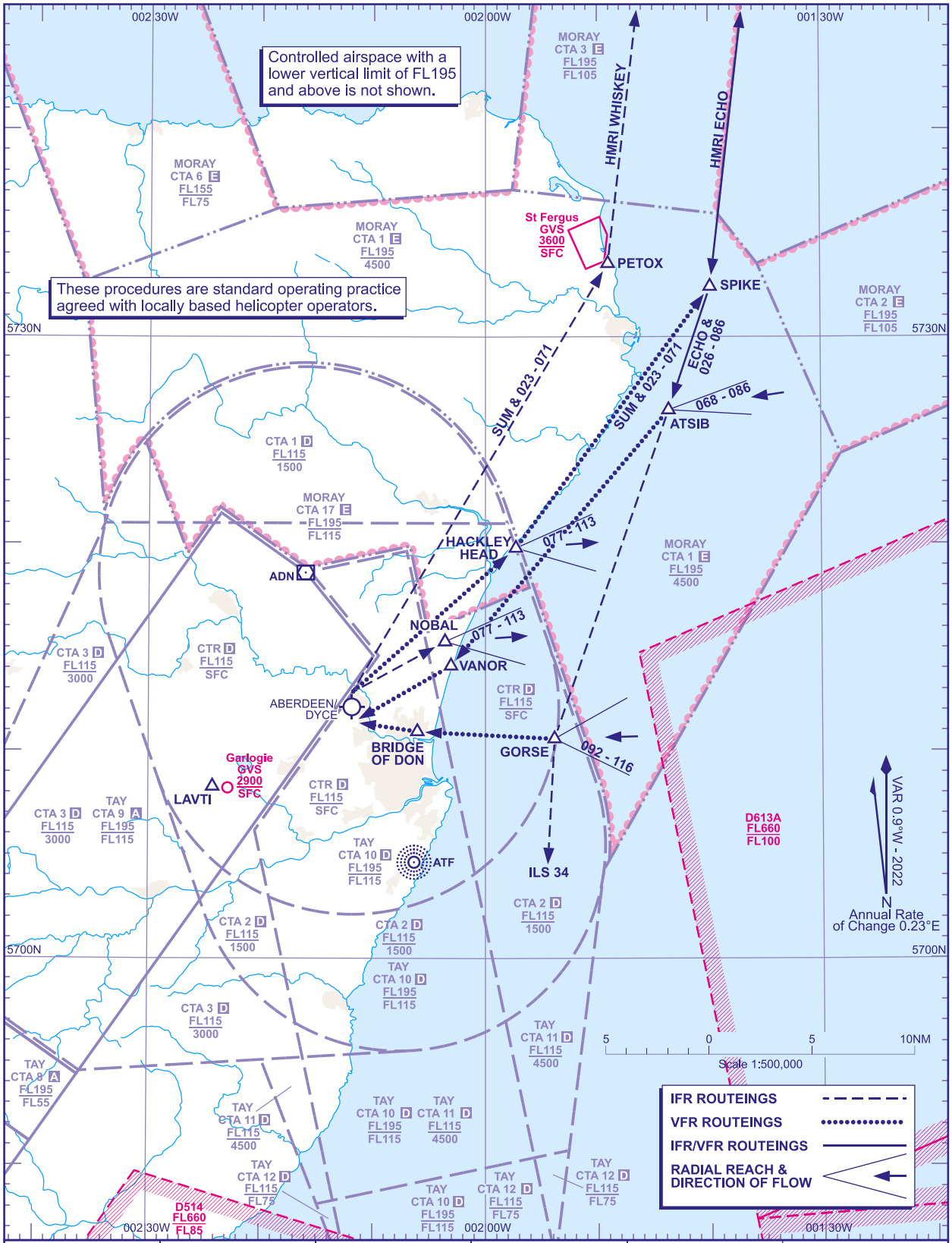
CHANGE (2/24): AIRSPACE NOTE ADDED. EGD514 ADDED. EGD613 COMPLEX ADDED.

AERO INFO DATE 08 DEC 23

AD 2-EGPD-3-1

HELICOPTER ROUTE STRUCTURE IN VICINITY OF ABERDEEN - RWY 34

ABERDEEN/DYCE



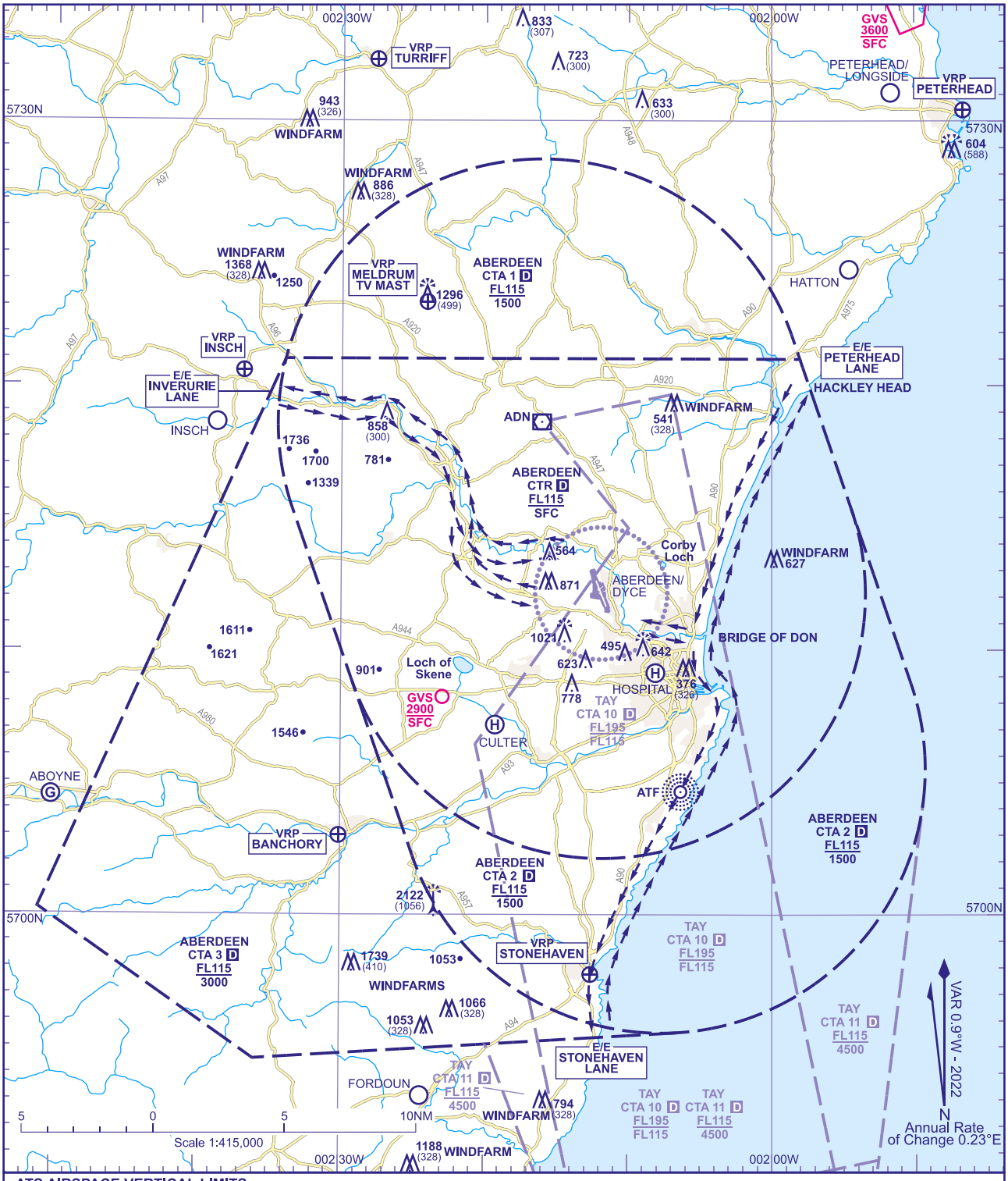
DEPARTURE	FLIGHT RULES	HMRI	APPROACH	HMRI
PETOX	IFR	SUM & 023 - 071	IFR	ECHO & 026 - 086
FORTIES		077 - 113		092 - 116
SPIKE	VFR/SVFR	SUM & 023 - 071	VFR/SVFR	ECHO & 026 - 086
HACKLEY		077 - 113		092 - 116

CHANGE (2/24): AIRSPACE NOTE ADDED. EGD514 ADDED. EGD613 COMPLEX ADDED.

AERO INFO DATE 08 DEC 23

AD 2-EGPD-3-2

CLASS D AIRSPACE CHART - ENTRY/EXIT LANES & VRPs — ABERDEEN/DYCE



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 23 JAN 25

AD 2-EGPD-4-1

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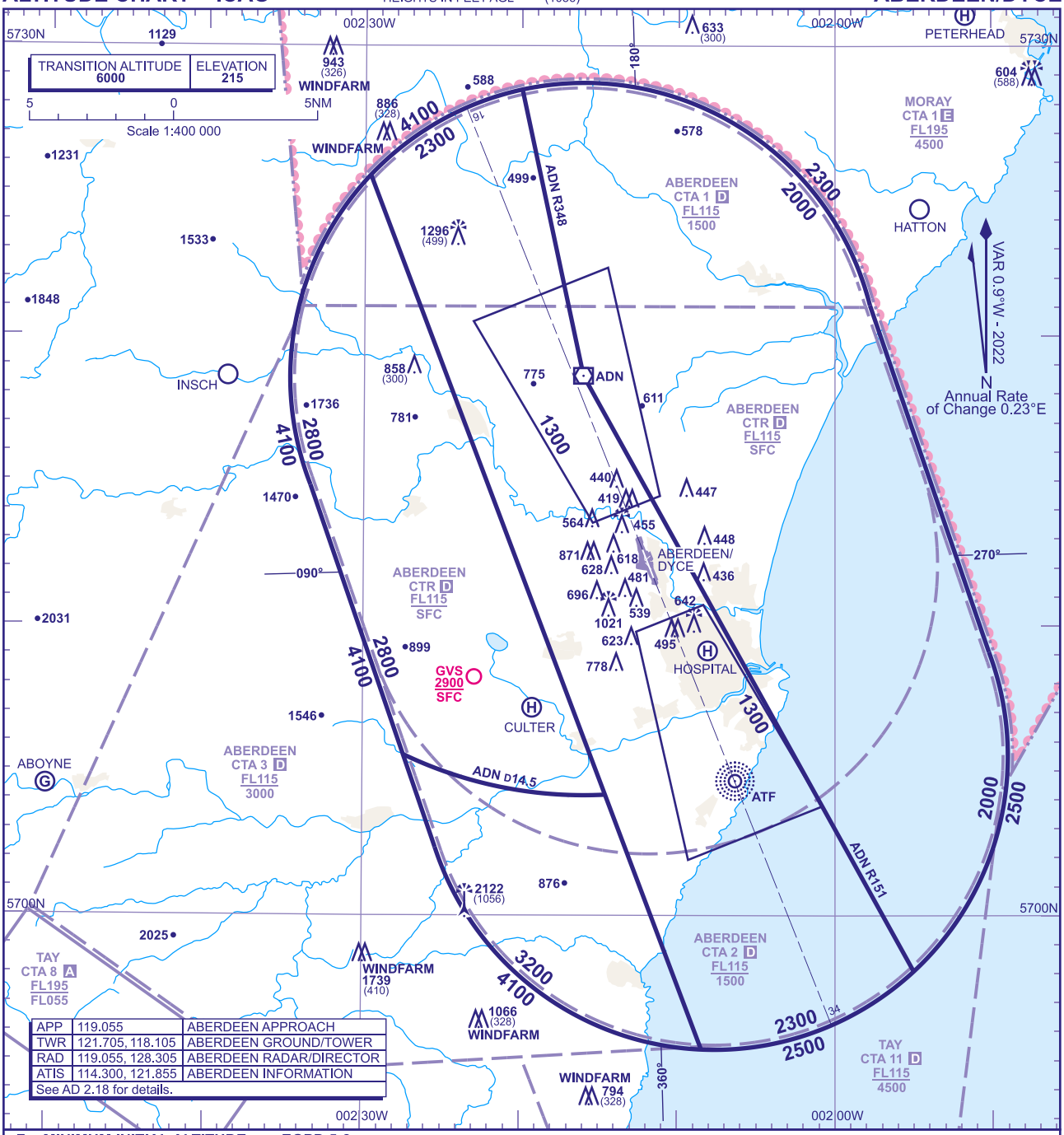
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL **2122**
HEIGHTS IN FEET AGL (1056)

ABERDEEN/DYCE



APP	119.055	ABERDEEN APPROACH
TWR	121.705, 118.105	ABERDEEN GROUND/TOWER
RAD	119.055, 128.305	ABERDEEN RADAR/DIRECTOR
ATIS	114.300, 121.855	ABERDEEN INFORMATION
See AD 2.18 for details.		

For **MINIMUM INITIAL ALTITUDE** see EGPD 5-2.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher, to **ADN VOR** or **NDB(L) ATF** as appropriate to the procedure being flown†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **ADN VOR** or **NDB(L) ATF** as appropriate to the procedure being flown†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL055, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**

CHANGE (8/25): SMAA BOUNDARIES REVISED. ALTITUDES REVISED.

AERO INFO DATE 19 MAY 25

AD 2-EGPD-5-1

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

ABERDEEN/DYCE

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2000** in the sector defined by the lateral limits; 572823N 0021953W thence clockwise by an arc of a circle radius 10NM centred on 571838N 0021602W to 572101N 0015803W - 570903N 0015030W thence clockwise by an arc of a circle radius 10NM centred on 570532N 0020740W to 565810N 0015518W - 571838N 0021602W - 572823N 0021953W.

b) **2300** in the sector defined by the lateral limits; 572525N 0022935W thence clockwise by an arc of a circle radius 10NM centred on 571838N 0021602W to 572823N 0021953W - 571838N 0021602W - 565810N 0015518W thence clockwise by an arc of a circle radius 10NM centred on 570532N 0020740W to 565533N 0020835W - 570410N 0021455W - 572525N 0022935W.

c) **2800** in the sector defined by the lateral limits; 571453N 0023307W thence clockwise by an arc of a circle radius 10NM centred on 571838N 0021602W to 572525N 0022935W - 570410N 0021455W thence clockwise by an arc of a circle radius 14.5NM centred on 571838N 0021602W to 570527N 0022702W - 571453N 0023307W.

d) **3200** in the sector defined by the lateral limits; 570527N 0022702W thence anticlockwise by an arc of a circle radius 14.5NM centred on 571838N 0021602W to 570410N 0021455W - 565533N 0020835W thence clockwise by an arc of a circle radius 10NM centred on 570532N 0020740W to 570224N 0022504W - 570527N 0022702W.

Further descent to **1300** may be given within the Approach Areas shown when on 40° leg or Final Approach.

CHANGE (8/25): AREAS A,B,C BOUNDARIES REVISED. ARC CENTRES REVISED.

AERO INFO DATE 02 JUN 25

INSTRUMENT APPROACH CHART - ICAO

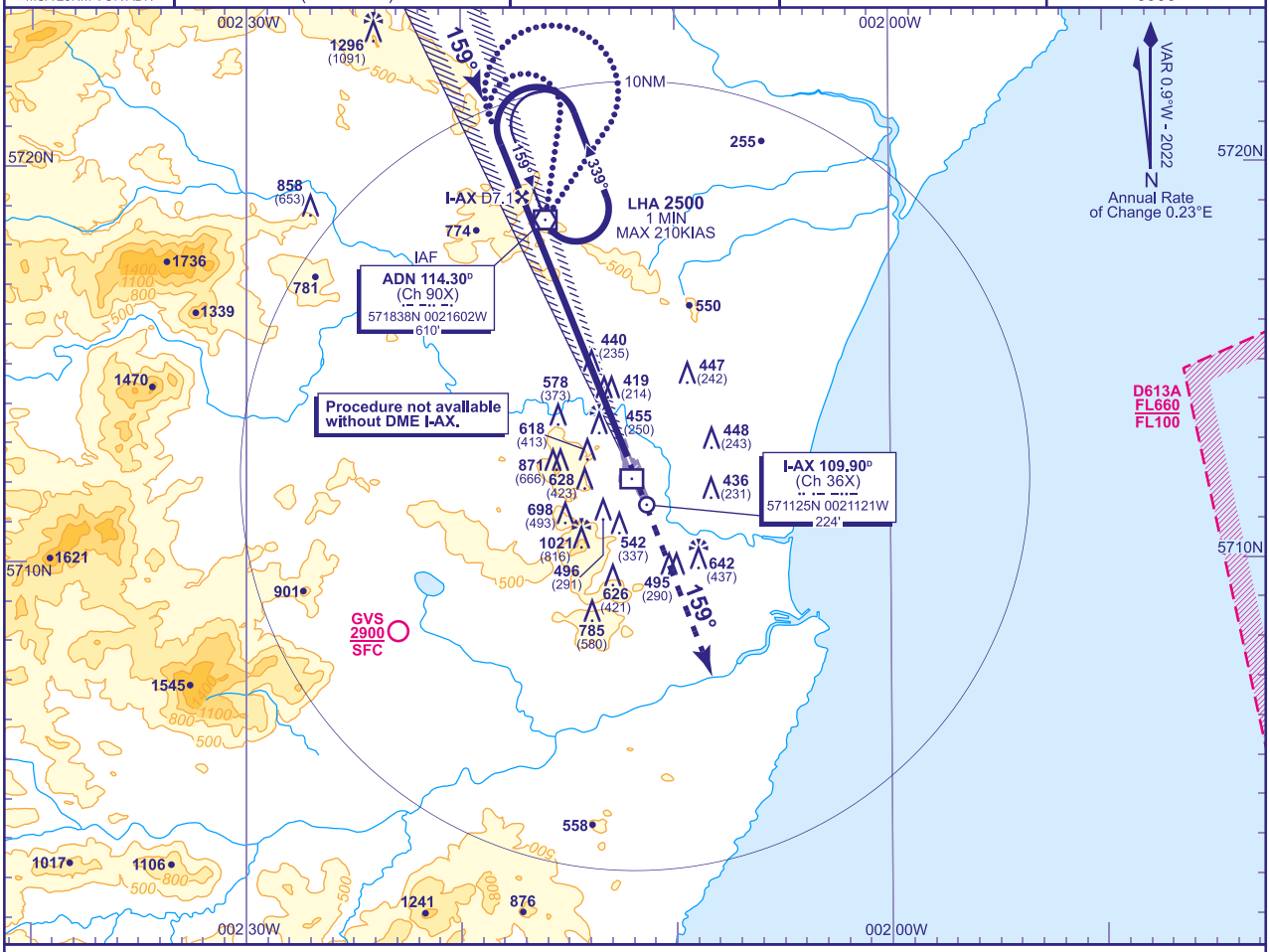
ABERDEEN/DYCE
ILS/DME
RWY 16
(ACFT CAT A,B,C,D)



MSA 25NM VOR ADN

APP 119.055	ABERDEEN APPROACH	AD ELEVATION	215
TWR 118.105	ABERDEEN TOWER	THR ELEVATION	205
121.705	ABERDEEN GROUND	OBSTACLE ELEVATION	
RAD 119.055, 128.305	ABERDEEN RADAR	1296 AMSL (1091) (ABOVE THR)	
ATIS 114.300 (VOR ADN)	ABERDEEN INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

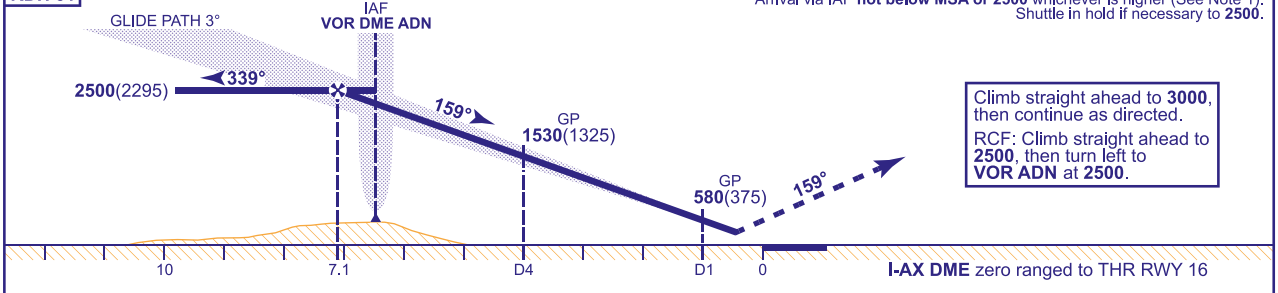


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-AX	6	5	4	3	2	1
ALT(HGT)	**2170**(1965)	**1850**(1645)	**1530**(1325)	**1210**(1005)	**900**(695)	**580**(375)

RDH 51

Arrival via IAF **not below MSA or 2500** whichever is higher (See Note 1). Shuttle in hold if necessary to **2500**.



Climb straight ahead to **3000**, then continue as directed.

RCF: Climb straight ahead to **2500**, then turn left to **VOR ADN** at **2500**.

I-AX DME zero ranged to THR RWY 16

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**369**(164)	**376**(171)	**385**(180)	**395**(190)
VM(C)OCA (OCH AAL)	Total Area	**1150**(935)	**1330**(1115)	**1430**(1215)	**1430**(1215)
	East of RWY 16/34	**720**(505)	**940**(725)	**1050**(835)	**1070**(855)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE BASE TURN REVERSAL
From VOR ADN: fly outbound on R008 (CAT A,B) or R034 (CAT C,D) descending as required to **not below 2500**. At I-AX DME 8.8 (ADN DME 3) base turn left to intercept the LOC. When established continue as for main procedure.

NOTE 1 Subject to ATC approval, aircraft inbound to VOR ADN may descend to **2900** when within 10NM of DME ADN and to **2500** when within 6NM of DME ADN.
2 VOR ADN is 0.35NM east of LOC.

CHANGE (13/24): VM(C) TOTAL AREA CAT B,C,D. EGD613A ADDED. SPECIFICATION CHANGE.

AERO INFO DATE 10 OCT 24

AD 2-EGPD-8-1

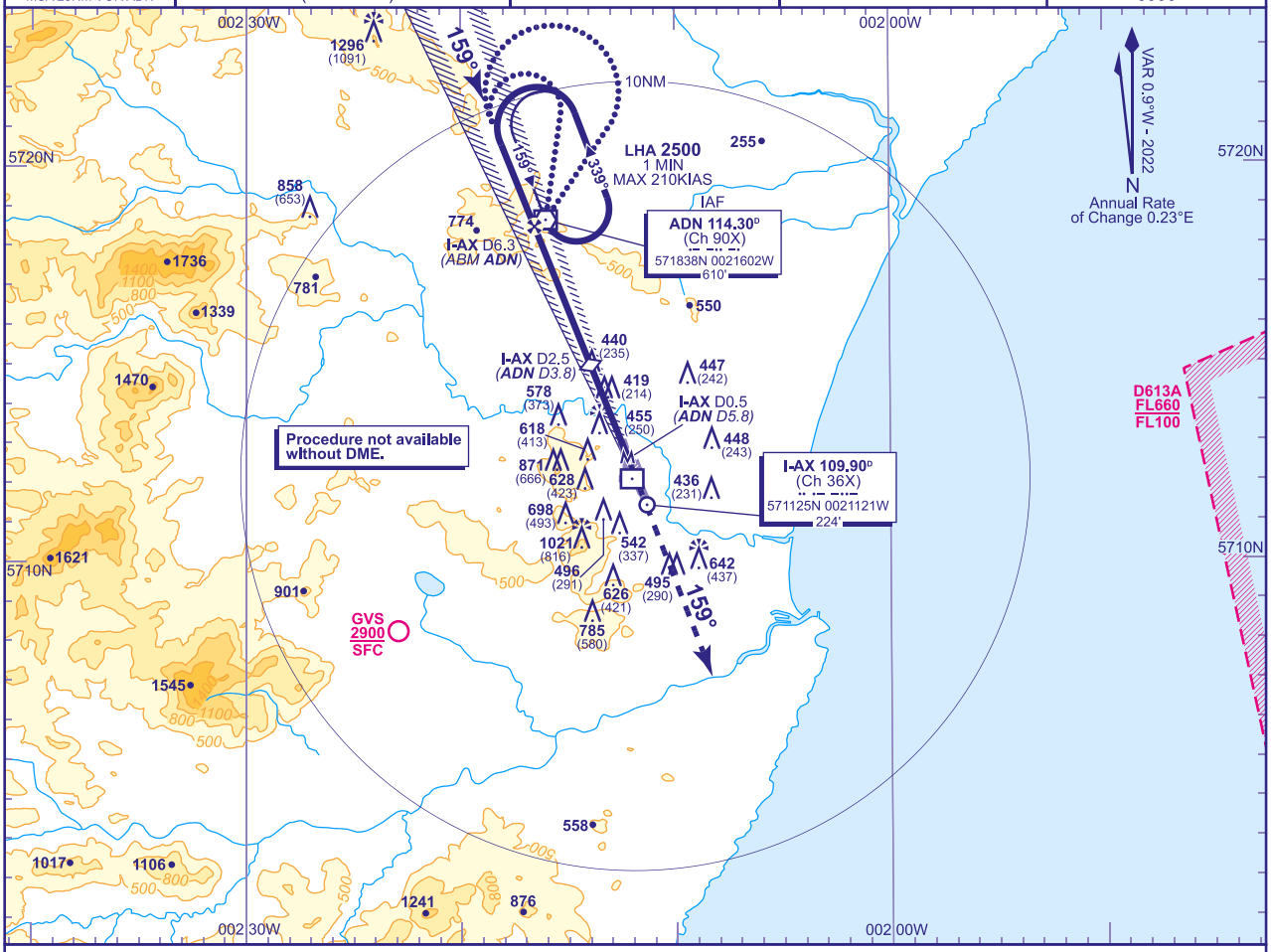
I

INSTRUMENT APPROACH CHART - ICAO

ABERDEEN/DYCE
LOC/DME
RWY 16
(ACFT CAT A,B,C,D)

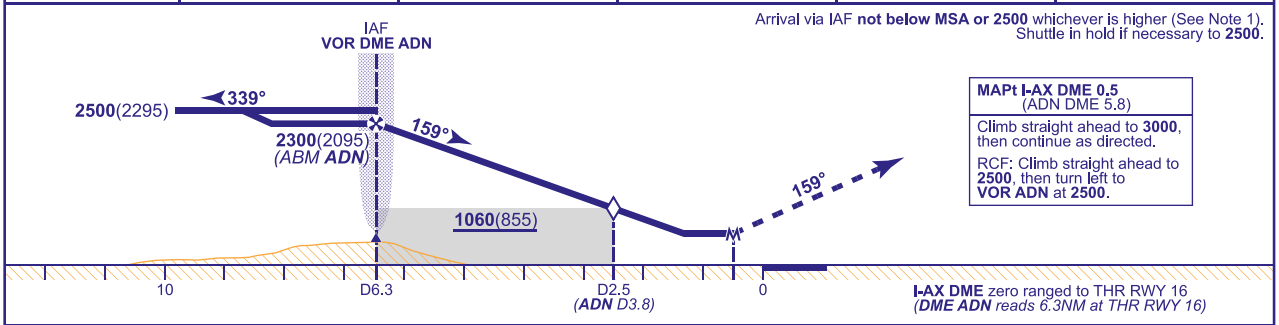
MSA 25NM VOR ADN

APP 119.055	ABERDEEN APPROACH	AD ELEVATION **215**	TRANSITION ALTITUDE **6000**
TWR 118.105	ABERDEEN TOWER	THR ELEVATION **205**	
121.705	ABERDEEN GROUND	OBSTACLE ELEVATION **1296 AMSL** (1091) (ABOVE THR)	
RAD 119.055, 128.305	ABERDEEN RADAR		
ATIS 114.300 (VOR ADN)	ABERDEEN INFORMATION	BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-AX (ADN)	6(0.5)	5(1.4)	4(2.4)	3(3.4)	2(4.3)
ALT(HGT)	**2170**(1965)	**1850**(1645)	**1530**(1325)	**1210**(1005)	**900**(695)



Arrival via IAF **not below MSA or 2500** whichever is higher (See Note 1). Shuttle in hold if necessary to **2500**.

MAPt I-AX DME 0.5
(ADN DME 5.8)

Climb straight ahead to **3000**, then continue as directed.

RCF: Climb straight ahead to **2500**, then turn left to **VOR ADN** at **2500**.

I-AX DME zero ranged to THR RWY 16
(***DME ADN*** *reads 6.3NM at THR RWY 16*)

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**700**(495)	**700**(495)	**700**(495)	**700**(495)
VM(C)OCA (OCH AAL)	**Total Area**	**1150**(935)	**1330**(1115)	**1430**(1215)	**1430**(1215)
	East of RWY 16/34	**720**(505)	**940**(725)	**1050**(835)	**1070**(855)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE BASE TURN REVERSAL
From VOR ADN: fly outbound on R008 (CAT A,B) or R034 (CAT C,D) descending as required to **not below 2500**. At I-AX DME 8.8 (ADN DME 3) base turn left to intercept the LOC. When established continue as for main procedure.

NOTE 1 Subject to ATC approval, aircraft inbound to VOR ADN may descend to **2900** when within 10NM of DME ADN and to **2500** when within 6NM of DME ADN.
2 VOR ADN is 0.35NM east of LOC.
3 I-AX DME and ADN DME not co-located. Ensure correct range cross check is used for the DME received.

CHANGE (13/24): PROCEDURE MINIMA. VM(C) TOTAL AREA CAT B,C,D. EGD613A ADDED. SPECIFICATION CHANGE.

AERO INFO DATE 04 OCT 24

INSTRUMENT APPROACH CHART - ICAO

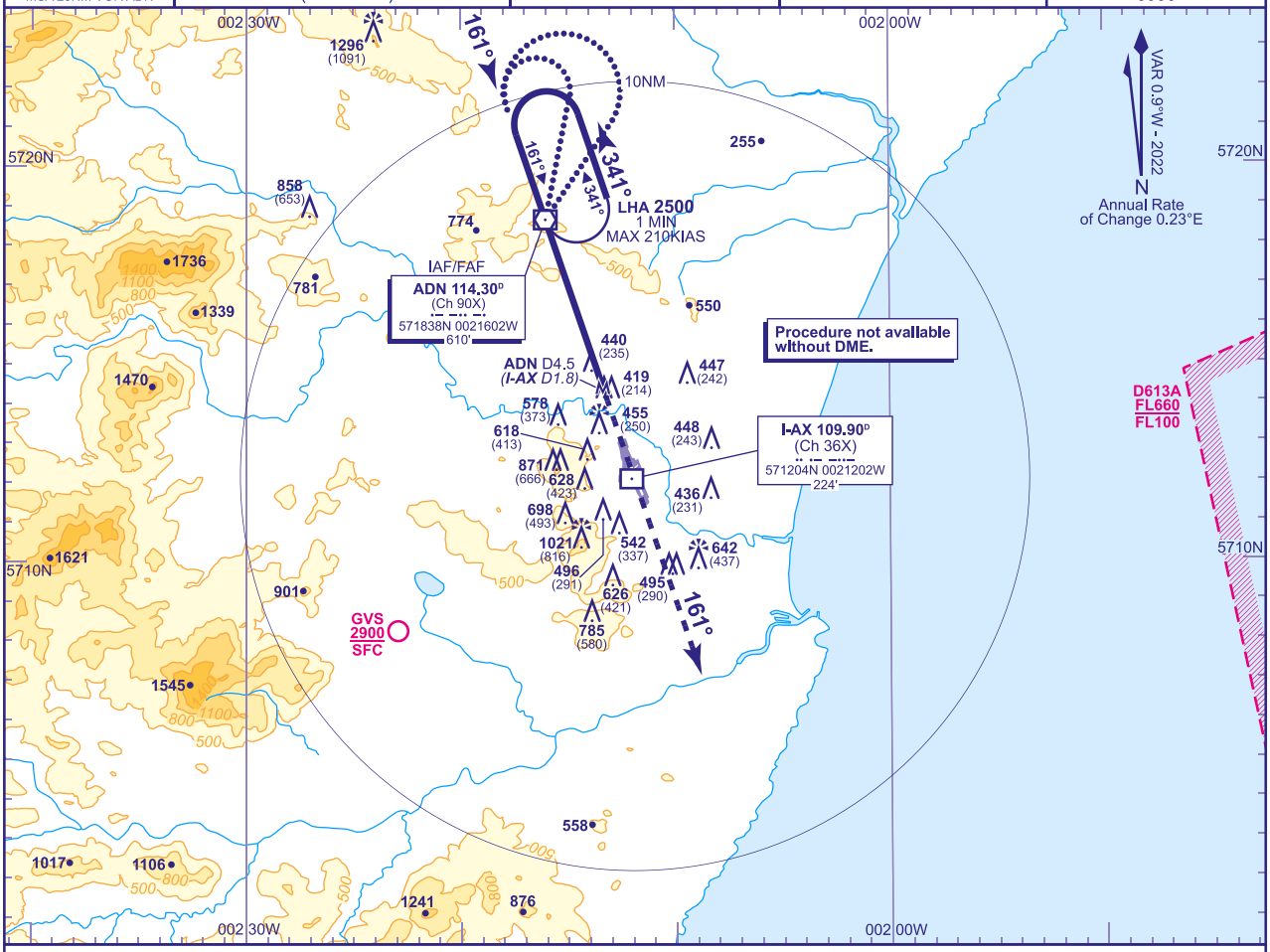
ABERDEEN/DYCE VOR/DME RWY 16
(ACFT CAT A,B,C,D)



MSA 25NM VOR ADN

APP 119.055	ABERDEEN APPROACH	AD ELEVATION	215
TWR 118.105	ABERDEEN TOWER	THR ELEVATION	205
121.705	ABERDEEN GROUND	OBSTACLE ELEVATION 1296 AMSL (1091) (ABOVE THR)	
RAD 119.055, 128.305	ABERDEEN RADAR		
ATIS 114.300 (VOR ADN)	ABERDEEN INFORMATION	BEARINGS ARE MAGNETIC	

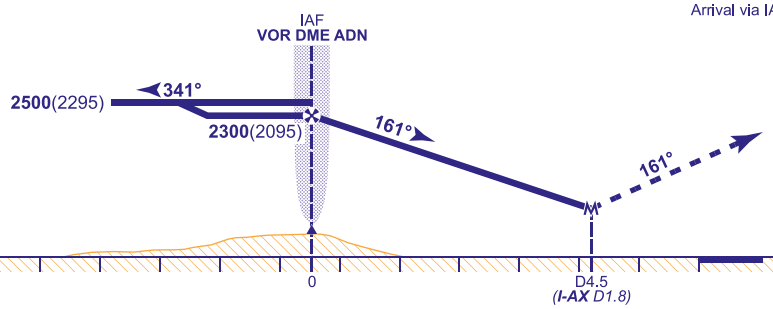
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.3%, 320FT/NM

DME ADN (I-AX)	1(5.3)	2(4.3)	3(3.3)	4(2.3)
ALT(HGT)	**1980**(1775)	**1660**(1455)	**1340**(1135)	**1020**(815)

Arrival via IAF **not below MSA or 2500** whichever is higher (See Note 1).
Shuttle In hold If necessary to **2500**.



MAPt ADN DME 4.5
(I-AX DME 1.8)

Climb straight ahead to **3000**, then continue as directed.

RCF: Climb straight ahead to **2500**, then turn left to **VOR ADN** at **2500**.

DME ADN reads 6.3NM at THR RWY 16
***(I-AX DME** zero ranged to THR RWY 16)*

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**940**(735)	**940**(735)	**940**(735)	**940**(735)
VM(C)OCA (OCH AAL)	Total Area	**1150**(935)	**1330**(1115)	**1430**(1215)	**1430**(1215)
	East of RWY 16/34	**940**(725)	**940**(725)	**1050**(835)	**1070**(855)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

ALTERNATIVE PROCEDURE BASE TURN REVERSAL
From VOR ADN: fly outbound on R011 (CAT A,B) or R034 (CAT C,D) descending as required to **2500**. At ADN DME 3 (I-AX DME 8.8) base turn left to establish on the extended FAT. When established continue as for main procedure.

NOTE 1 Subject to ATC approval, aircraft inbound to VOR ADN may descend to **2900** when within 10NM of DME ADN and to **2500** when within 6NM of DME ADN.
2 FAT offset 3° from RWY C/L.
3 I-AX DME and ADN DME not co-located. Ensure correct range cross check is used for the DME received.
4 DME unlocks may occur within 1NM of DME ADN.

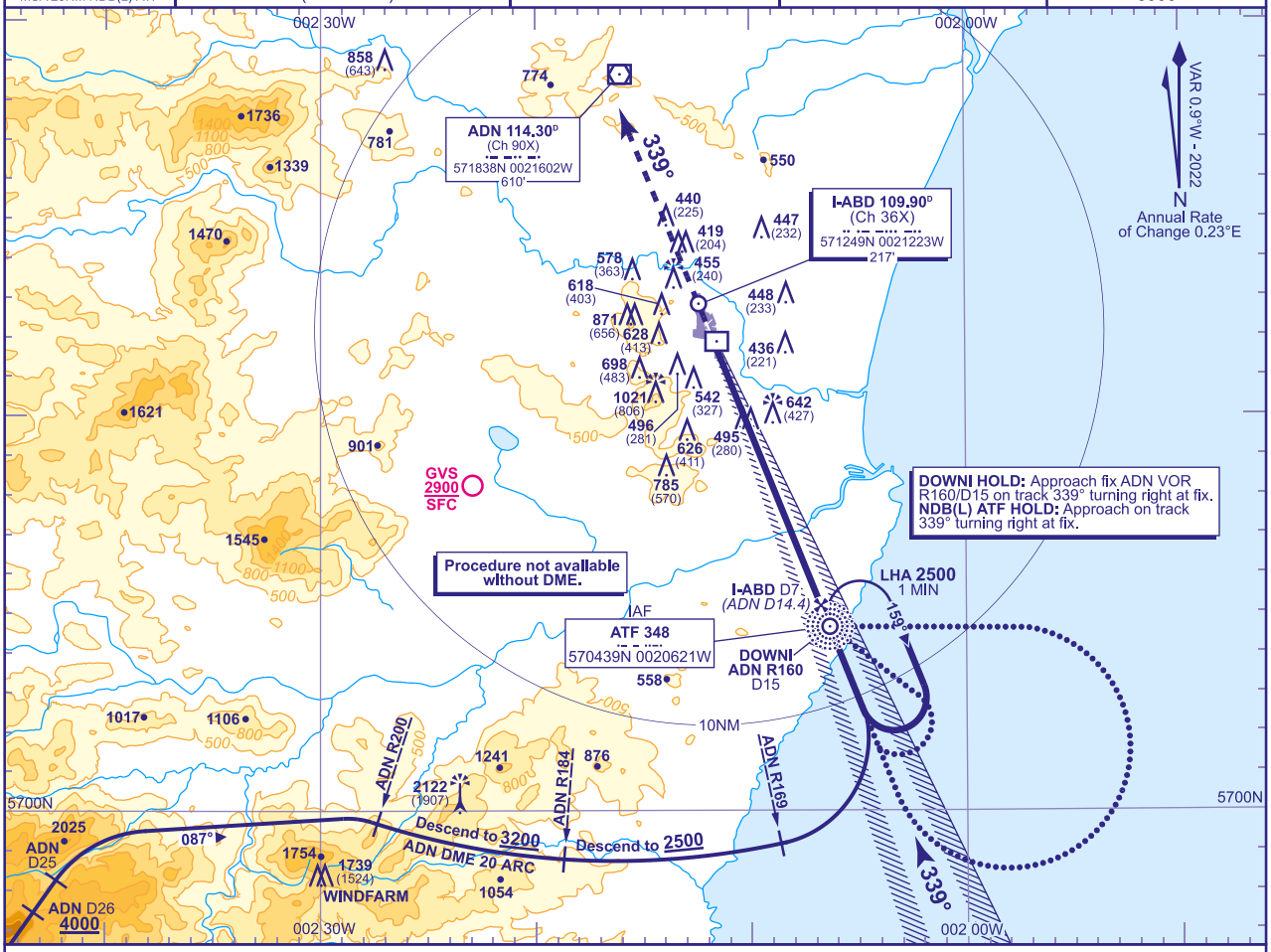
CHANGE (13/24): VM(C) TOTAL AREA CAT B,C,D. VM(C) EAST OF RWY 16/34 CAT A. EGD613A ADDED. SPECIFICATION CHANGE.

AERO INFO DATE 04 OCT 24
AD 2-EGPD-8-3

INSTRUMENT APPROACH CHART - ICAO

ABERDEEN/DYCE
ILS/DME
RWY 34
(ACFT CAT A,B,C,D)

MSA 25NM NDB(L) ATF	APP 119.055	ABERDEEN APPROACH	AD ELEVATION 215	TRANSITION ALTITUDE 6000
	TWR 118.105	ABERDEEN TOWER	THR ELEVATION 215	
	121.705	ABERDEEN GROUND	OBSTACLE ELEVATION 2122 AMSL (1907) (ABOVE THR)	
	RAD 119.055, 128.305	ABERDEEN RADAR		
	ATIS 114.300 (VOR ADN)	ABERDEEN INFORMATION	BEARINGS ARE MAGNETIC	

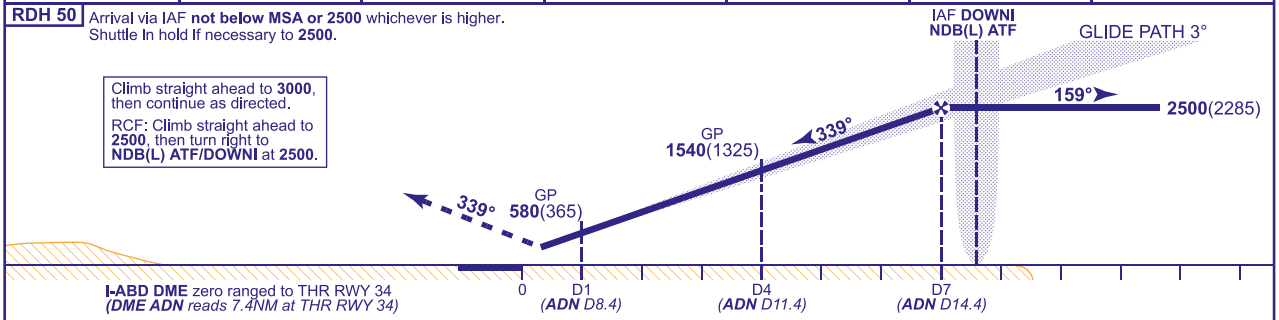


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-ABD(ADN)	6(13.4)	5(12.4)	4(11.4)	3(10.4)	2(9.4)	1(8.4)
ALT(HGT)	**2180**(1965)	**1860**(1645)	**1540**(1325)	**1220**(1005)	**900**(685)	**580**(365)

RDH 50 Arrival via IAF **not below MSA or 2500** whichever is higher.
Shuttle In hold If necessary to **2500**.

Climb straight ahead to **3000**, then continue as directed.
RCF: Climb straight ahead to **2500**, then turn right to **NDB(L) ATF/DOWNI** at **2500**.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**370**(155)	**378**(163)	**389**(174)	**399**(184)
VM(C)OCA (OCH AAL)	Total Area	**1130**(915)	**1330**(1115)	**1430**(1215)	**1430**(1215)
	East of RWY 16/34	**720**(505)	**940**(725)	**1050**(835)	**1070**(855)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

DIRECT ARRIVAL FROM AIRWAY P600 (Not available without VOR DME ADN)
Request clearance for direct approach before reaching GLESK. When cleared descend to **not below 4000** at ADN DME 26. At ADN DME 25, turn right onto nominal track 087° to intercept and follow ADN DME 20 arc anticlockwise. After passing VOR ADN R200 descend to **not below 3200**. (See plan).

ALTERNATIVE PROCEDURE BASE TURN REVERSAL
From NDB(L) ATF fly outbound on QDR 128° (CAT A,B) or QDR 090° (CAT C,D) descending as required to **not below 2500**. At I-ABD DME 10/ ADN DME 17.4 turn right to intercept the LOC. When established continue as for main procedure.

NOTE 1 I-ABD DME and ADN DME not co-located. Ensure correct range cross check is used for the DME received.

CHANGE (13/24): OCA (OCH) ALL CAT. VM(C) TOTAL AREA CAT B,C,D. VM(C) EAST OF RWY 16/34 CAT C,D. SPECIFICATION CHANGE.

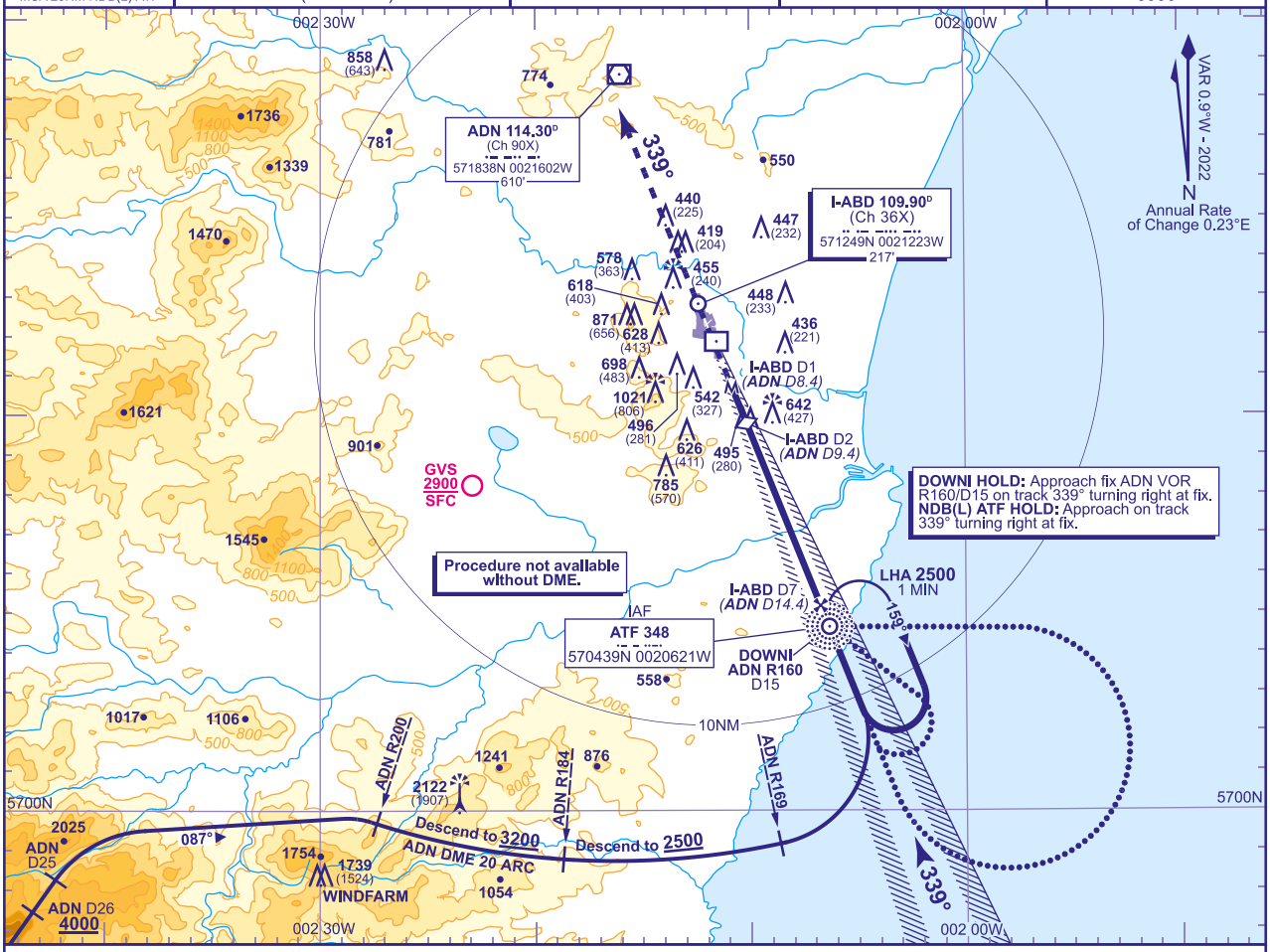
AERO INFO DATE 08 OCT 24 AD 2-EGPD-8-4

INSTRUMENT APPROACH CHART - ICAO

ABERDEEN/DYCE
LOC/DME
RWY 34
(ACFT CAT A,B,C,D)

MSA 25NM NDB(L) ATF

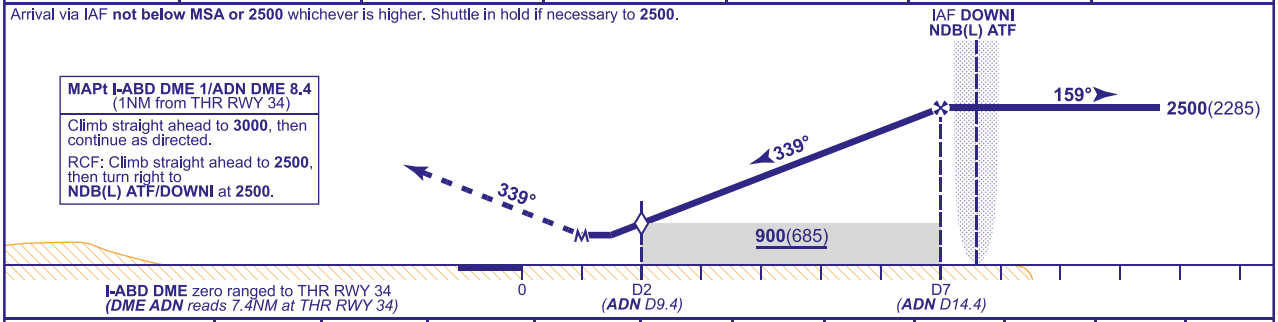
APP 119.055	ABERDEEN APPROACH	AD ELEVATION 215	
TWR 118.105	ABERDEEN TOWER	THR ELEVATION 215	
121.705	ABERDEEN GROUND	OBSTACLE ELEVATION 2122 AMSL (1907) (ABOVE THR)	
RAD 119.055, 128.305	ABERDEEN RADAR		
ATIS 114.300 (VOR ADN)	ABERDEEN INFORMATION	BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-ABD(ADN)	7(14.4)	6(13.4)	5(12.4)	4(11.4)	3(10.4)	2(9.4) (SDF)
ALT(HGT)	**2490**(2275)	**2180**(1965)	**1860**(1645)	**1540**(1325)	**1220**(1005)	**900**(685)

Arrival via IAF **not below MSA or 2500** whichever is higher. Shuttle in hold if necessary to **2500**.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure (see note 1)	**720**(505)	**720**(505)	**720**(505)	**720**(505)		FT/MIN	850	740	640	530	420
VM(C)OCA (OCH AAL)	Total Area	**1130**(915)	**1330**(1115)	**1430**(1215)	**1430**(1215)							
	East of RWY 16/34	**720**(505)	**940**(725)	**1050**(835)	**1070**(855)							

DIRECT ARRIVAL FROM AIRWAY P600 (Not available without VOR DME ADN)
Request clearance for direct approach before reaching GLESK. When cleared descend to **not below 4000** at ADN DME 26. At ADN DME 25, turn right onto nominal track 087° to intercept and follow ADN DME 20 arc anticlockwise. After passing VOR ADN R200 descend to **not below 3200**. (See plan).

ALTERNATIVE PROCEDURE BASE TURN REVERSAL
From NDB(L) ATF fly outbound on QDR 128° (CAT A,B) or QDR 090° (CAT C,D) descending as required to **not below 2500**. At I-ABD DME 10/ ADN DME 17.4 turn right to intercept the LOC. When established continue as for main procedure.

NOTE 1 When ADN DME used to establish SDF range, OCA(H) for all CATS raised to **760**(545).
2 I-ABD DME and ADN DME not co-located. Ensure correct range cross check is used for the DME received.

CHANGE (13/24): OCA (OCH) ALL CAT. VM(C) TOTAL AREA CAT B,C,D. VM(C) EAST OF RWY 16/34 CAT C,D. SPECIFICATION CHANGE.

AERO INFO DATE 10 OCT 24

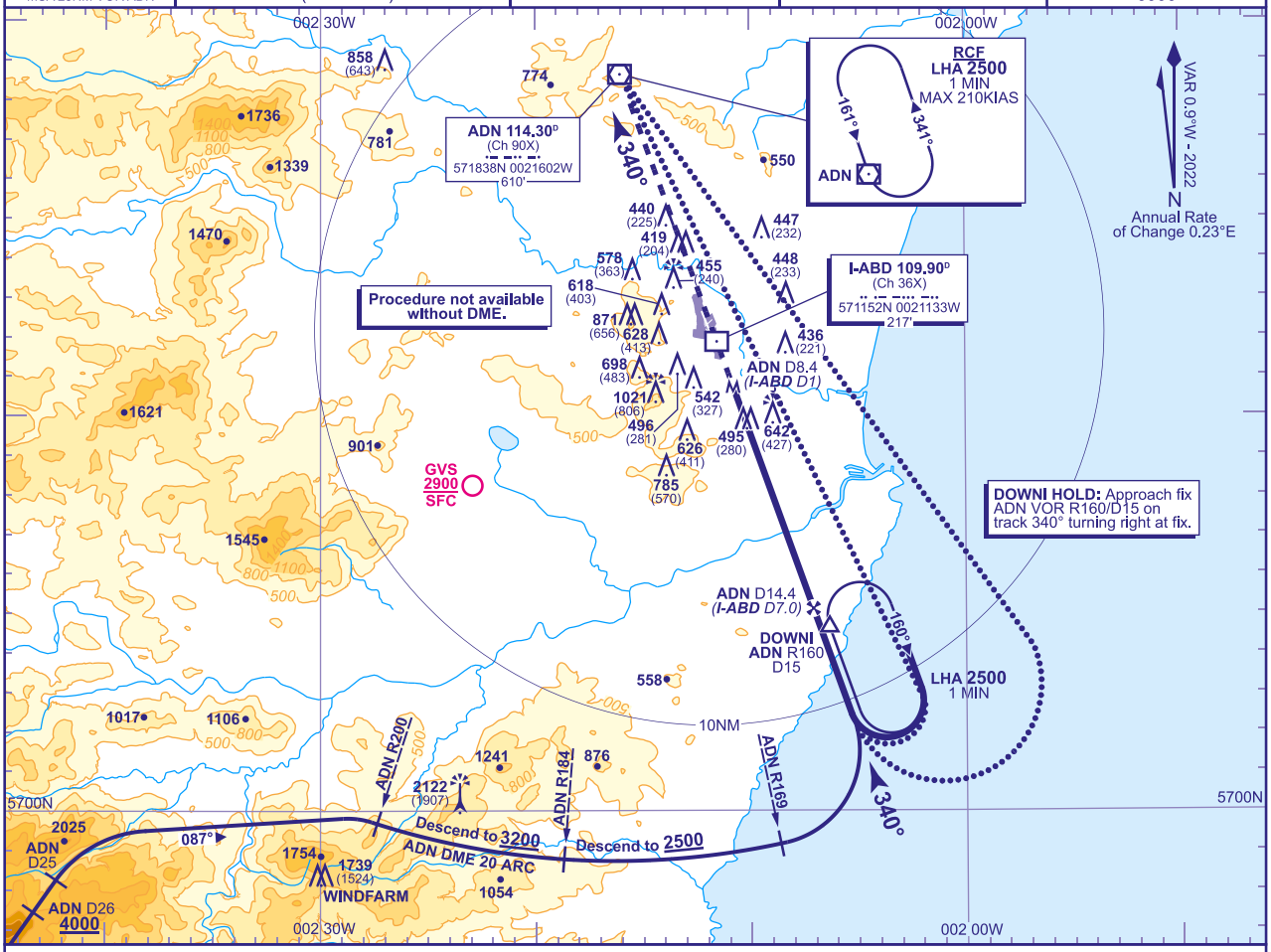
INSTRUMENT APPROACH CHART - ICAO

ABERDEEN/DYCE VOR/DME RWY 34
(ACFT CAT A,B,C,D)



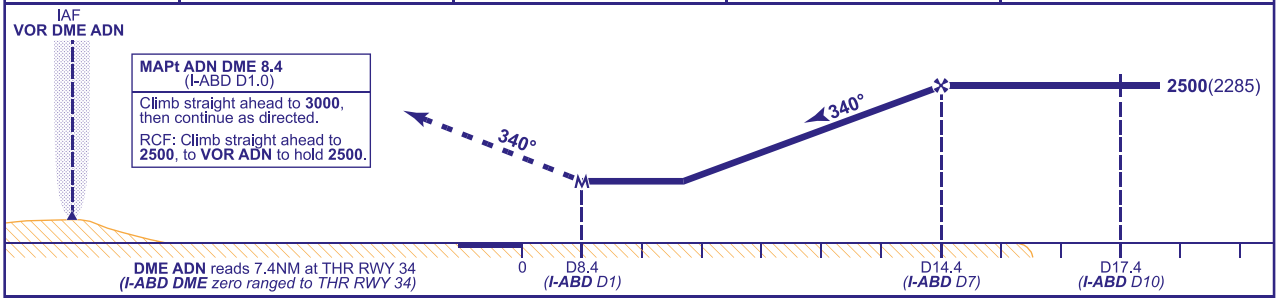
MSA 25NM VOR ADN

APP 119.055	ABERDEEN APPROACH	AD ELEVATION	215
TWR 118.105	ABERDEEN TOWER	THR ELEVATION	215
121.705	ABERDEEN GROUND	OBSTACLE ELEVATION	
RAD 119.055, 128.305	ABERDEEN RADAR	2122 AMSL (1907) (ABOVE THR)	
ATIS 114.300 (VOR ADN)	ABERDEEN INFORMATION	BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.25%, 319FT/NM

ADN (I-ABD)	14(6.6)	13(5.6)	12(4.6)	11(3.6)
ALT(HGT)	**2370**(2155)	**2050**(1835)	**1730**(1515)	**1410**(1195)



Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**1060**(845)	**1060**(845)	**1060**(845)	**1060**(845)
VM(C)OCA (OCH AAL)	Total Area	**1130**(915)	**1330**(1115)	**1430**(1215)	**1430**(1215)
	East of RWY 16/34	**1060**(845)	**1060**(845)	**1060**(845)	**1070**(855)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	430

ALTERNATIVE PROCEDURE BASE TURN REVERSAL
From VOR ADN fly outbound on QDR 155° (CAT A,B) or QDR 145° (CAT C,D) **not below 4000**. At ADN DME 12 descend to **not below 2500**. At ADN DME 17.4 (I-ABD D10) turn right to intercept FAT. When established continue as for main procedure.

DIRECT ARRIVAL FROM AIRWAY P600 (Not available without VOR DME ADN)
Request clearance for direct approach before reaching GLESK. When cleared descend to **not below 4000** at ADN DME 26. At ADN DME 25, turn right onto nominal track 087° to intercept and follow ADN DME 20 arc anticlockwise. After passing VOR ADN R200 descend to **not below 3200**. (See plan).

NOTE 1 FAT offset 1.8° west of RWY 34 C/L.
2 Note FAT passes 0.15NM west of DOWNI.
3 I-ABD DME and ADN DME not co-located. Ensure correct range cross check is used for the DME received.

CHANGE (13/24): OCA (OCH) ALL CAT. VM(C) TOTAL AREA CAT B,C,D. VM(C) EAST OF RWY 16/34 ALL CAT. SPECIFICATION CHANGE.

AERO INFO DATE 11 OCT 24

INSTRUMENT APPROACH CHART - ICAO

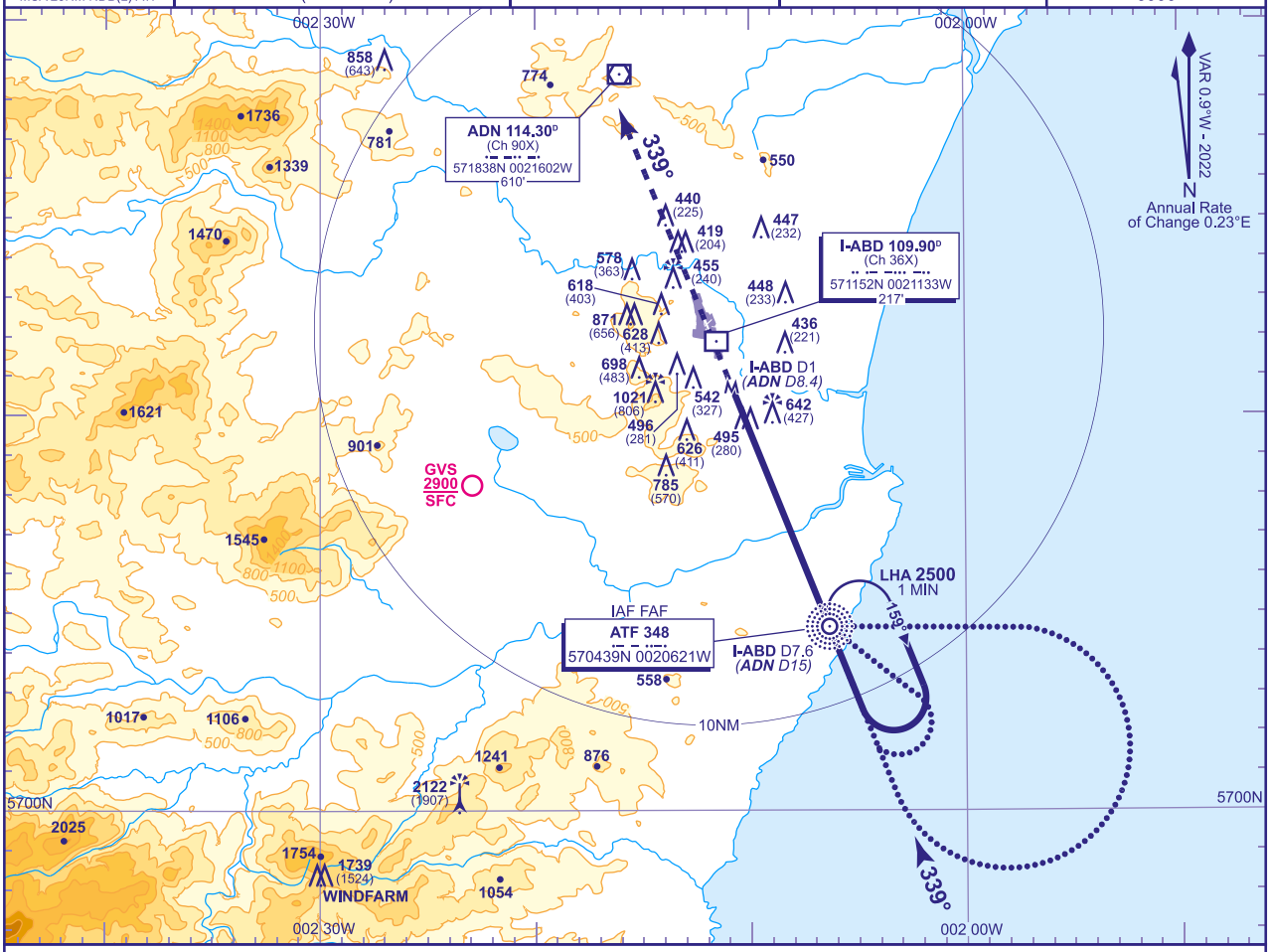
ABERDEEN/DYCE
NDB(L)/DME
RWY 34
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) ATF

APP 119.055	ABERDEEN APPROACH	AD ELEVATION	215
TWR 118.105	ABERDEEN TOWER	THR ELEVATION	215
121.705	ABERDEEN GROUND	OBSTACLE ELEVATION 2122 AMSL (1907) (ABOVE THR)	
RAD 119.055, 128.305	ABERDEEN RADAR		
ATIS 114.300 (VOR ADN)	ABERDEEN INFORMATION	BEARINGS ARE MAGNETIC	

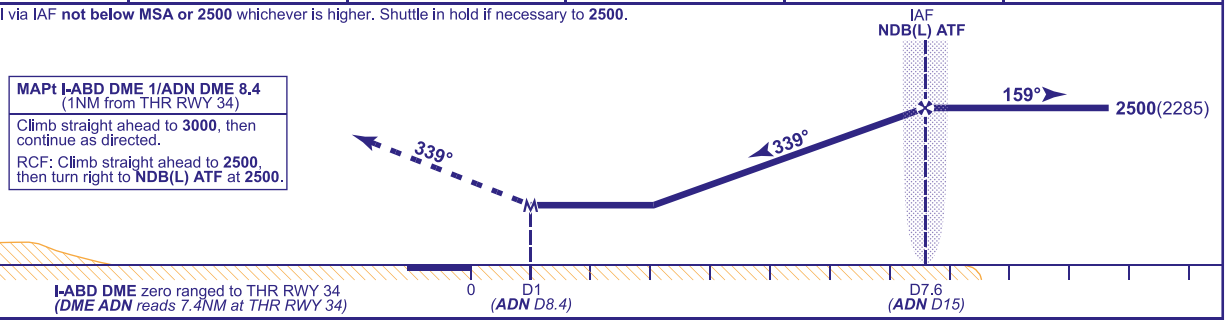
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 4.8%, 300FT/NM

DME I-ABD(ADN)	7(14.4)	6(13.4)	5(12.4)	4(11.4)	3(10.4)
ALT(HGT)	**2320**(2105)	**2030**(1815)	**1740**(1525)	**1440**(1225)	**1150**(935)

Arrival via IAF **not below MSA or 2500** whichever is higher. Shuttle in hold if necessary to **2500**.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**1150**(935)	**1150**(935)	**1150**(935)	**1150**(935)
VM(C)OCA (OCH AAL)	Total Area	**1150**(935)	**1330**(1115)	**1430**(1215)	**1430**(1215)
	East of RWY 16/34	**1150**(935)	**1150**(935)	**1150**(935)	**1150**(935)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	780	690	590	490	390
NDB(L) ATF to MAPt	MIN:SEC	2:28	2:49	3:18	3:57	4:57

ALTERNATIVE PROCEDURE BASE TURN REVERSAL
From NDB(L) ATF fly outbound on QDR 128° (CAT A,B) or QDR 090° (CAT C,D) descending as required to **not below 2500**. At I-ABD DME 10/ ADN DME 17.4 turn right onto extended FAT. When established continue as for main procedure. Aircraft unable to receive DME should fly outbound for 1 MIN 06 SEC (CAT A,B); 0 MIN 48 SEC (CAT C,D) prior to baseturn right.

NOTE 1 I-ABD DME and ADN DME not co-located. Ensure correct range cross check is used for the DME received.

CHANGE (13/24): OCA (OCH) ALL CAT. VM(C) TOTAL AREA ALL CAT. VM(C) EAST OF RWY 16/34 ALL CAT. SPECIFICATION CHANGE.

AERO INFO DATE 13 OCT 24

AD 2-EGPD-8-7

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EGJA — ALDERNEY

EGJA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGJA — ALDERNEY

EGJA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 494224N Long: 0021252W Centre of Airport
2	Direction and distance from city	1 NM SW of St Annes.
3	Elevation / Reference temperature / Mean Low Temperature	290 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	158 FT
5	Magnetic Variation / Annual Change	0.01°W (2022) / 0.19°E
6	AD Administration Address Telephone Telefax	STATES OF GUERNSEY. States of Guernsey Airport, Guernsey, Channel Islands. 01481-822851 (ATC) 01481-822352 (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGJA AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 0735-1830, Sun 0855-1830; (Mon-Thu 0635-1730, Fri-Sun 0635-1830).
2	Customs and immigration	As AD hours.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	As AD hours.
7	ATS	Mon-Sat 0725-1840, Sun 0840-1830; (Mon-Thu 0625-1740, Fri-Sun 0625-1835).
8	Fuelling	Fuel unavailable. Uplifts available in Guernsey
9	Handling	By arrangement.
10	Security	
11	De-icing	
12	Remarks	Extensions restricted to Scheduled Services only.

EGJA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement.
2	Fuel and oil types	
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited availability.
6	Repair facilities for visiting aircraft	
7	Remarks	Commercial flights and all aircraft over 4 tonnes MTOW using Alderney Airport are required to use the services of a handling agent. The following are recognised handling agents at Alderney Airport: Aurigny Air Services: Tel: 01481-822889 Fax: 01481-823670 Email: ops@aurigny.com

EGJA AD 2.5 PASSENGER FACILITIES

1	Hotels	None.
2	Restaurants	Buffet.
3	Transportation	Taxis.
4	Medical facilities	Limited first aid.
5	Bank and Post Office	None.
6	Tourist Office	None.
7	Remarks	

EGJA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A3 It is a condition of the aerodrome licence that the appropriate level of fire cover should be provided to all aircraft using the aerodrome.
2	Rescue equipment	Webber cutter and Supa snap power saw.
3	Capability for removal of disabled aircraft	6000 KG mobile crane.
4	Remarks	

EGJA AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical.
2	Clearance priorities	Runway, Apron.
3	Remarks	

EGJA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt PCN 10/F/B/Z/T
2	Taxiway width, surface and strength	Taxiway B: 12 M Surface: Asphalt PCN 9/F/C/Z/T
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGJA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 03/21: Grass Runway 03/21 is marked by inset concrete blocks. 08/26: Runway threshold, runway designator and runway centre-line on Runway 08/26 only. 13/31: Grass Runway 13/31 is marked by inset concrete blocks. Taxiway marking aid(s): Taxi-holding position, taxiway centre-line.
3	Stop bars and runway guard lights (if any)	Guard lights at holding point B.
4	Other runway protection measures	
5	Remarks	Obstacle, boundary, strip, and snow markings. WDI: 494225.80N 0021259.21W (LGTD).

EGJA AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGJA1134) 26/APPROACH	FENCE	494229.53N 0021229.59W	295 FT	4 FT	No	
(EGJA1142) 26/APPROACH	TRACK INC	494228.98N 0021228.78W	303 FT	16 FT	No	
(EGJA1136) 26/APPROACH	FENCE	494228.77N 0021229.41W	294 FT	5 FT	No	
(EGJA1138) 26/APPROACH	GATE	494228.56N 0021229.35W	293 FT	4 FT	No	
(EGJA1139) 26/APPROACH 08/ TAKE-OFF	GATE	494228.40N 0021229.31W	293 FT	5 FT	No	
(EGJA1140) 26/APPROACH 08/ TAKE-OFF	APPROACH LIGHT	494227.13N 0021228.98W	291 FT	9 FT	No	
(EGJA1035) 08/APPROACH	EMBANKMENT	494218.84N 0021317.78W	287 FT	0 FT	No	
(EGJA1033) 08/APPROACH	TRACK INC	494218.38N 0021319.27W	290 FT	16 FT	No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGJA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	JERSEY MET
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	JERSEY MET 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone. Jersey for consultation. H24.
6	Flight documentation Language(s) used	Abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	ASXX, FSXX, F214/215, Channel Islands Area Forecast
8	Supplementary equipment available for providing information	
9	ATS units provided with information	ALDERNEY GUERNSEY
10	Additional information (limitation of service, etc.)	Current METAR and TAF available during AD hours via recorded message on Tel: 01481-238957

EGJA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
03	025.90°	497 x 37 M	RWY surface: Grass	494215.37N 0021252.38W 157.6 FT	THR 279.2 FT	
21	205.91°	497 x 37 M	RWY surface: Grass	494229.84N 0021241.55W 157.6 FT	THR 287.3 FT	
08	079.45°	877 x 18 M	RWY surface: Asphalt PCN 7/F/B/Z/T Runway 08 turning area PCN 4/F/A/Z/T	494221.58N 0021314.97W 157.6 FT	THR 284.5 FT	RWY 08 1:619 Up RWY 26 -1:619 Down
26	259.46°	877 x 18 M	RWY surface: Asphalt PCN 7/F/B/Z/T Runway 08 turning area PCN 4/F/A/Z/T	494226.78N 0021231.92W 157.6 FT	THR 289.7 FT	RWY 08 1:619 Up RWY 26 -1:619 Down
13	133.29°	733 x 37 M	RWY surface: Grass	494232.20N 0021316.82W 157.6 FT	THR 269.1 FT	
31	313.29°	733 x 37 M	RWY surface: Grass	494215.93N 0021250.17W 157.6 FT	THR 278.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
		557 x 60 M				RWY 03 Asphalt at intersection with 08/26. The surface remains undulating. The surface of Runway 03/21 immediately north of Runway 08/26 is undulating and pilots should exercise caution. Runways 03/21 and 13/31 have no associated stopways or clearways.
		557 x 60 M				RWY 21 Asphalt at intersection with 08/26. The surface remains undulating. The surface of Runway 03/21 immediately north of Runway 08/26 is undulating and pilots should exercise caution. Runways 03/21 and 13/31 have no associated stopways or clearways.
		997 x 140 M				RWY 08 Threshold width 23 M.
		997 x 140 M				RWY 26 Threshold width 23 M.
		793 x 60 M				RWY 13 Asphalt at intersection with 08/26. The surface remains undulating. Runways 03/21 and 13/31 have no associated stopways or clearways.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		793 x 60 M				RWY 31 Asphalt at intersection with 08/26. The surface remains undulating. Runways 03/21 and 13/31 have no associated stopways or clearways.

EGJA AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	877 M	877 M	877 M	877 M	
26	877 M	877 M	877 M	877 M	
13	733 M	733 M	733 M	733 M	
31	733 M	733 M	733 M	733 M	
03	497 M	497 M	497 M	497 M	
21	497 M	497 M	497 M	497 M	

EGJA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08	Centre-line one crossbar at 300 M. 420 M Light intensity high	Green Light intensity high	APAPI Left/3° 20 FT 155 M			Elev HI bi-directional with omni-directional component 880 M 55 M spacing White Light intensity high	Red		
26	Centre-line one crossbar at 300 M. 420 M Light intensity high	Green Light intensity high	APAPI Left/3° 20 FT 141 M			Elev HI bi-directional with omni-directional component 880 M 55 M spacing White Light intensity high	Red		
13		Green portable electric				Portable electric. Available at 20 minutes notice. White Light intensity low	portable electric Red		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
31		Green portable electric				Portable electric. Available at 20 minutes notice. White Light intensity low	portable electric Red		

EGJA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 494225.77N 0021259.72W (LGTD) and 494226.27N 0021258.27W (LGTD).
3	TWY edge and centre line lighting	EDGE: Blue edge lighting on Taxiway B only.
4	Secondary power supply/switch-over time	Yes. 10 seconds.
5	Remarks	Apron floodlighting.

EGJA AD 2.16 HELICOPTER LANDING AREA

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EGJA AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CHANNEL ISLANDS CTR NORTH 500000N 0020000W - 494951N 0030000W - 500000N 0030000W following the line of latitude to - 500000N 0020000W	Upper limit: FL80 Lower limit: SFC	D	JERSEY CONTROL English	5000 FT		
CHANNEL ISLANDS CTR SOUTH 500000N 0020000W - 493000N 0020000W - 490200N 0014000W following the line of latitude to - 490200N 0030000W - 494951N 0030000W - 500000N 0020000W	Upper limit: FL80 Lower limit: SFC	D	JERSEY CONTROL English	5000 FT		
ALDERNEY ATZ A circle, 2 NM radius, centred at 494224N 0021252W on the notified mid-point of the longest runway (08/26) in accordance with the Air Navigation (Bailiwick of Guernsey) Law 2012.	Upper limit: 2000 FT AGL Lower limit: SFC	D	ALDERNEY TOWER English	5000 FT		The Alderney Aerodrome Traffic Zone is embedded in the Channel Islands CTR.

EGJA AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	GUERNSEY APPROACH	128.655 DOC 25 NM/ 10,000 FT.			0545-2100 (0445-2000).	ATC Guernsey provides approach service to aircraft bound for Alderney.
TWR	ALDERNEY GROUND	130.505 DOC 3 NM/GND.			Ground Movement Planner. Activated by NOTAM or as directed by ATC.	ATZ hours coincident with Tower hours. Extensions by arrangement for scheduled services only.
	ALDERNEY TOWER	125.355 DOC 25 NM/4,000 FT.			Mon-Sat 0725-1840, Sun 0840-1845; (Mon-Thu 0625-1740, Fri-Sun 0625-1835).	
OTHER	ALDERNEY FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency	
Air Traffic Control Service	JERSEY CONTROL	120.450 To be used in the event of failure of communications on 125.205 MHz.			0545-2100 (0445-2030); and by arrangement.	DOC 4900N00100W - 4834N00205W - 4920N00400W - 5015N00400W - 5015N00145W - 4935N00100W / 25,000 FT.
		125.205 CTR and Airway Channel.			0545-2100 (0445-2030); and by arrangement.	

EGJA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB (L) 0.79°E (2027)	ALD	383.000 kHz	HO	494231.93N 0021159.15W		Range 50 NM.

EGJA AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Channel Islands CTR.
b) All aircraft using Alderney Airport and its facilities must comply with the requirements of the United Kingdom Civil Aviation (Insurance) Regulations 2005 and any future published amendments to these Regulations.
c) The use of the aerodrome is subject to 'Airport Terms and Conditions of Use'. These are available from Airport Administration, Tel: 01481-227766 or on the Guernsey Airport website (www.guernsey-airport.gov.gg).
d) The Director of Civil Aviation for the Bailiwick of Guernsey has issued Exemptions from the Air Navigation (Bailiwick of Guernsey) Law 2012 authorising operations in Bailiwick of Guernsey airspace including Guernsey and Alderney Airports, by home-built aircraft registered in ECAC Member States, and non-home-built aircraft registered in the UK, Ireland and France, operating on a National airworthiness certificate. (Separate exemptions extend the effect to Jersey Airport and Jersey Airspace).

   Note that the exemptions do not exempt the pilot or operator from obtaining permission from Jersey ATC for flight in the Channel Islands Control Zone, from Guernsey ATC for flight in Guernsey airspace and use of Guernsey and Alderney Airports, or from the requirement to carry a transponder whilst flying within the Channel Islands Control Zone.
e) On arrival, pilots and passengers of all General Aviation aircraft must report to Flight Clearance to carry out Special Branch and Customs clearance.
f) All commercial flights and aircraft over 4 tonnes MTOW using Alderney Airport are required to use the services of a handling agent.

g) The operator of an aircraft carrying dangerous or hazardous cargo must notify the Aerodrome Fire Service, Tel: 01481-822551 prior to the arrival of the aircraft or before loading of cargo prior to departure from the aerodrome. The carriage of such cargo is subject to a permission granted under the Air Navigation (Bailiwick of Guernsey) Law 2012.
h) All aircrew and persons employed at Alderney Airport whilst airside, are required to wear high visibility clothing at all times. Aircrew wearing high visibility clothing must escort passengers (not wearing high visibility clothing) to and from their aircraft. Pilots in charge of aircraft are responsible for ensuring that their crew and passengers comply with these requirements.
i) Due to restricted apron parking all aircraft requiring parking on the hard apron must request prior permission, Tel: 01481-822851. This does not apply to locally based aircraft and scheduled services.
j) In respect of Aerodrome Operating Minima, the notified method of calculating Aerodrome Operating Minima for the purposes of the Air Navigation (Bailiwick of Guernsey) Law 2012 shall be that published in the UK AIP, Section AD 1.1 subsection 4, Aerodrome Operating Minima.
k) Applications for civilian formation flights in Special VFR within the CI Control Zone should ideally be made in writing or by e-mail to Jersey ATC Operations (atc.ops@jerseyairport.com) ideally with a minimum of seven days notice. Short notice application may be made to the Jersey ATC Watch Manager, Tel: +44 (0)1534-446086.

2 GROUND MOVEMENT

a) Grass Taxiway A and light aircraft parking area connects apron to Runway 21 threshold and is also used as a taxiway route from other runways to apron.
b) To prevent hazards to taxiing aircraft all chocks and picketing blocks should be removed to the edge of the parking area after use.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Arriving and departing aircraft on Runway 08/26 may observe a white RVR light at the upwind end of the runway, in the approach lights when the runway edge lights are on.
b) Caution advised due to turbulence caused by nearby cliffs.
c) Low boundary fence installed short of Runway 03 and 31 thresholds showing orange/white markers.
d) Due to coastal location, birds, including a large number of pheasants on the aerodrome, are a hazard throughout most of the year. This hazard level is raised during the migration season.
e) The aerodrome boundary fence 0.9 M high to the north and south of Runway 08/26 between the 08 threshold and the intersection with Runway 13/31 is within the runway strip.
f) The aerodrome boundary fence 0.9 M high to the north and south of Runway 08/26 between the 26 threshold and the intersection with Runway 03/21 is within the runway strip.
g) In Approach/Take-off Areas Obstruction: 26/Approach 08/Take-off Track 303 FT AMSL 494228.98N 0021228.78W.
h) Runway 08/26, between the thresholds of the runway, standing water may be present in excess of 3 MM in depth during and after periods of rain.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

a) Pilots are advised to take particular note of the following - Grass Runways 03/21 and 13/31 have undulations across the entire length and width. The surface of both grass runways is rough and uneven.

7 TRAINING

a) Circuit training must be booked in advance with Alderney Tower Tel: 01481-822851.
b) Instrument training must be booked in advance with Guernsey Approach Tel: 01481-227766, ext 2130.
c) A request message in item 18 of an FPL does not constitute a request for training.

EGJA AD 2.21 NOISE ABATEMENT PROCEDURES

a) All aircraft must conform to the following procedures, which may be departed from only to the extent necessary for avoiding immediate danger.

   i. Every operator using the airport shall ensure that at all times aircraft are operated in a manner calculated to cause the minimum disturbance practicable over all parts of the Island. In particular pilots will avoid overflying St Annes below 700 FT AAL.
   ii. Circuit procedures - Standard circuit height for joining and training is 700 FT AAL. Circuit training only permitted on Runways 08/26 and 13/31 and whenever possible, circuits to be confined to the West of 13/31 or South of 08/26.
   iii. Unless otherwise authorised or instructed by Air Traffic Control the above procedures shall apply to all aircraft approaching, landing, going around or taking-off in accordance with Air Traffic Control clearance and shall apply in both VMC and IMC.

EGJA AD 2.22 FLIGHT PROCEDURES

1 RADIO COMMUNICATION FAILURE PROCEDURES

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1.
b) Radio Failure in the Circuit

i. The pilot of an aircraft in the circuit experiencing radio failure should set the transponder code to 7600, and make one orbit away from the airfield. At the end of the downwind leg, proceed to final and land, providing the runway is clear.
ii. The pilot of an aircraft on base leg or final, having been cleared to final when the failure occurs, should, if time permits, change code to 7600, continue the approach and land, providing the Runway is clear.
iii. The pilot of a non transponder equipped aircraft should adopt the same procedure as in i, or ii.

2 INBOUND/OUTBOUND PROCEDURES

a) Arrival routes at AD 2-EGJA-7-1 may be varied at the discretion of ATC.
b) Procedures for Outbound Aircraft.

i. Standard Outbound Routes to Airways.
ii. Standard departure routes for aircraft joining the airways system are detailed below.

Departures to	Via	Route
North	Q41	ORTAC - THRED
North East	G271	AGANO[3] - GULDA - BENIX[1]
East	N160	AGANO[3] - LUSIT - CAN[2]
South East	V20	ORVAL - UPALO
South	R14/A25	MINQI - DIN
South West	G27	LERAK - BADUR
West	N160	TUNIT - LIZAD
North West	N862	SKERY - BHD

Note 1: *For airfields East of London. Flights inbound to EGLC may route via ORTAC.*

Note 2: *Not available above FL 90.*

Note 3: *Position of AGANO - 493954N 0020000W.*

c) Aircraft Outbound to the FIR

i. IFR flights wishing to leave the Channel Islands Control Zone to enter the London or Brest FIR's will normally be cleared by the most direct route consistent with the current traffic situation.
ii. VFR and Special VFR flights will normally be instructed to route via/to one of the Visual Reference Points, as detailed at EGJJ AD 2.22 and AD 2-EGJJ-3-1.

3 VFR FLIGHT

a) A flight plan must be filed for all flights within and intending to transit the Channel Islands CTR. For flights between Guernsey and Alderney and vice versa, abbreviated flight plan details may be submitted on forms available at either aerodrome.
b) VFR clearance to operate within the Alderney ATZ will not be granted if the reported visibility is less than 5 KM or the reported cloud ceiling is less than 1500 FT in accordance with SERA.5001.
c) Pilots must note that the Channel Island Director of Civil Aviation has not adopted the SERA derogations issued by the United Kingdom, and therefore they do not apply in Channel Island Airspace.
d) Aircraft shall be given a radar service whilst within Channel Islands Airspace. It is the responsibility of the pilot to comply with minimum VMC criteria in accordance with SERA.5001. Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
e) VFR Flights may be subject to delay when they cannot be fitted readily into the main traffic flow. Pilots should, therefore, always ensure that they have adequate fuel reserves and are able to divert to alternate aerodrome if necessary.

4 SPECIAL VFR FLIGHT

a) Prior Permission

i. A flight plan must be filed for all Special VFR flights in the Channel Islands CTR. For flights between Guernsey and Alderney and vice versa, abbreviated flight plan details may be submitted on forms available at either aerodrome.
ii. Special VFR clearances for flights within the Channel Islands CTR may be requested and will be given whenever traffic conditions permit. Special VFR flights within the Alderney ATZ will be subject to the general conditions laid down for Special VFR flights in SERA.5010. Pilots must note that the Channel Island Director of Civil Aviation has not adopted the SERA derogations issued by the United Kingdom, and therefore they do not apply in Channel Island Airspace.

iii. The use of Special VFR clearances is intended to be limited to light aircraft which cannot comply with full IFR requirements and wish to proceed to or from an aerodrome within or to transit the Channel Islands CTR.

b) Special Routes

i. Aircraft operating in accordance with Special VFR will normally be cleared via the published VRPs or on tracks to/from adjacent aerodromes or navigation aids, or as per flight planned route.
ii. Special VFR may be subject to delay when they cannot be fitted readily into the main traffic flow. Pilots should, therefore, always ensure that they have adequate fuel reserves and are able to divert to alternate aerodrome if necessary.

c) Weather Minima

i. Aircraft shall be given a radar service whilst within Channel Islands Airspace. It is the responsibility of the pilot to comply with minimum VMC criteria in accordance with SERA.5010. Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
ii. Special VFR clearances to operate within the Alderney ATZ will not be granted to a fixed wing aircraft if the reported visibility is less than 1500 M or the reported cloud ceiling is less than 600 FT (SERA.5010).
iii. Special VFR clearances to operate within the Alderney ATZ will not be granted to a helicopter if the reported visibility is less than 800 M or the reported cloud ceiling is less than 600 FT (SERA.5010).
iv. The Director of Civil Aviation has approved the issue of Special VFR clearances at night.

5 SARK RESTRICTED AREA

a) Pilots are to note that flight is not permitted at a height of less than 2000 FT above ground level within 3 NM of 492546N 0022145W on the Island of Sark (EGR095) except with the permission of the Channel Islands Director of Civil Aviation or from Guernsey ATC as necessary.

6 FLIGHT PLANS

a) See ENR 1.11.

7 CARRIAGE AND OPERATION OF SSR TRANSPONDERS

a) The carriage and operation of SSR transponder equipment with the following capability is mandatory when flying within the Channel Islands CTR, CTA or TMA:

i. when operating as a VFR or Special VFR Flight;
ii. when operating under IFR - Mode A 4096 codes and Mode C with altitude reporting capability.

b) Exemptions from the requirements may be given in the following circumstances:

i. for notified agreed events such as air rallies etc., applications for exemption must be made in writing to Manager - Air Traffic Control, Jersey Airport, Channel Islands, Email: atc@jerseyairport.com at least one calendar month before the event;
ii. for short notice exemptions, applications must be made to the Watch Supervisor, Jersey Airport, Tel: 01534-446086 giving full details. Such exemptions will not normally be granted unless it is considered that exceptional circumstances exist.

EGJA AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGJA AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGJA-2-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGJA-5-1
ARRIVALS CHART
AD 2.EGJA-7-1
INSTRUMENT APPROACH CHART RNP RWY 08 (CAT A,B) - ICAO
AD 2.EGJA-8-1
INSTRUMENT APPROACH CHART NDB(L) RWY 08 (CAT A) - ICAO
AD 2.EGJA-8-2
INSTRUMENT APPROACH CHART RNP RWY 26 (CAT A,B) - ICAO
AD 2.EGJA-8-3
INSTRUMENT APPROACH CHART NDB(L) RWY 26 (CAT A) - ICAO

AD 2.EGJA-8-4
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 08
AD 2.EGJA-8-5
SBAS FAS DATA BLOCK CODING DATA - RNP RWY 08
AD 2.EGJA-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 26
AD 2.EGJA-8-7
SBAS FAS DATA BLOCK CODING DATA - RNP RWY 26
AD 2.EGJA-8-8

EGJA AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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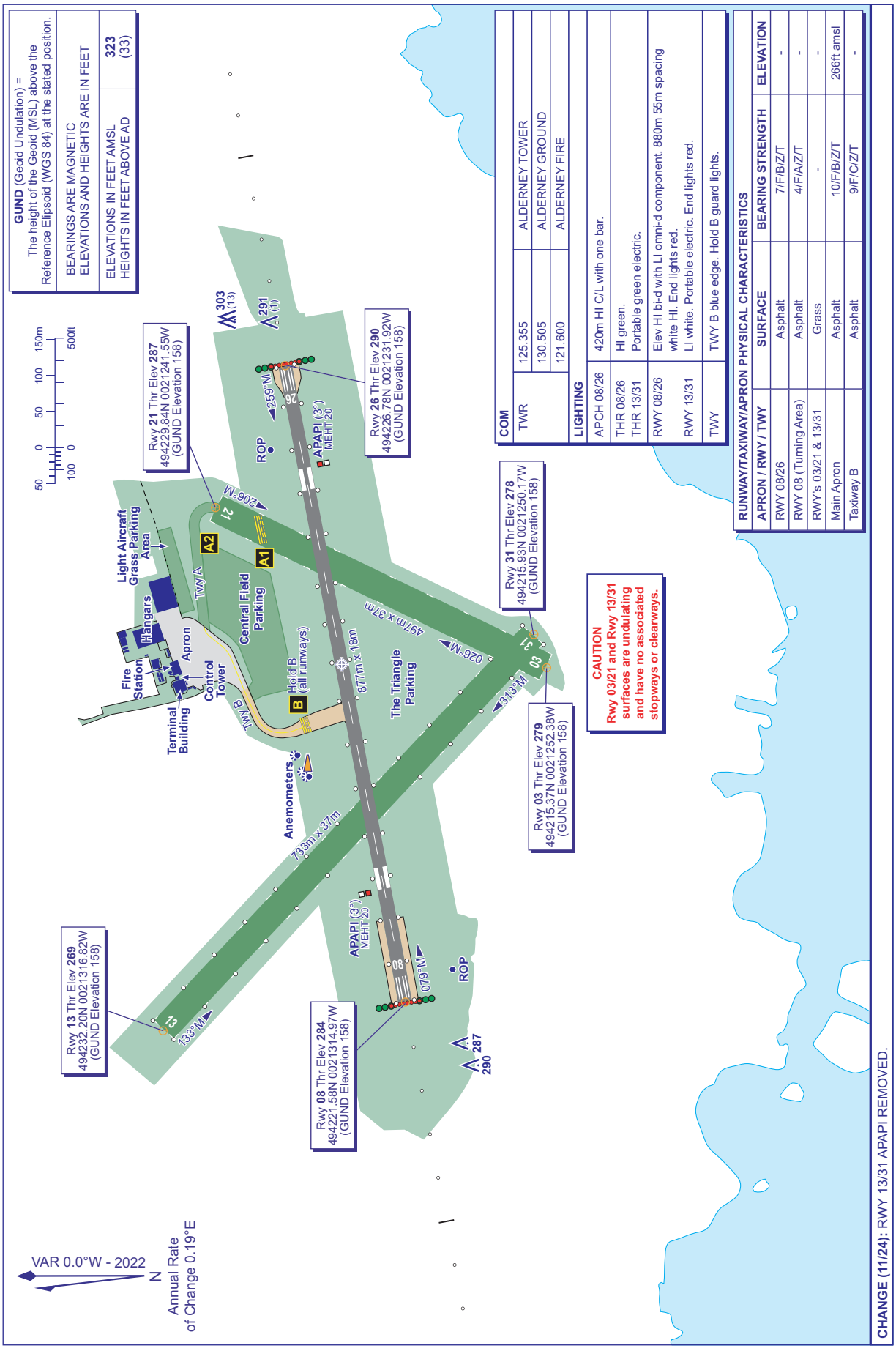
ALDERNEY EGJA

AERODROME CHART - ICAO

ARP 494224N 0021252W

AD ELEV 290FT



AERO INFO DATE 16 AUG 24

AD 2-EGJA-2-1

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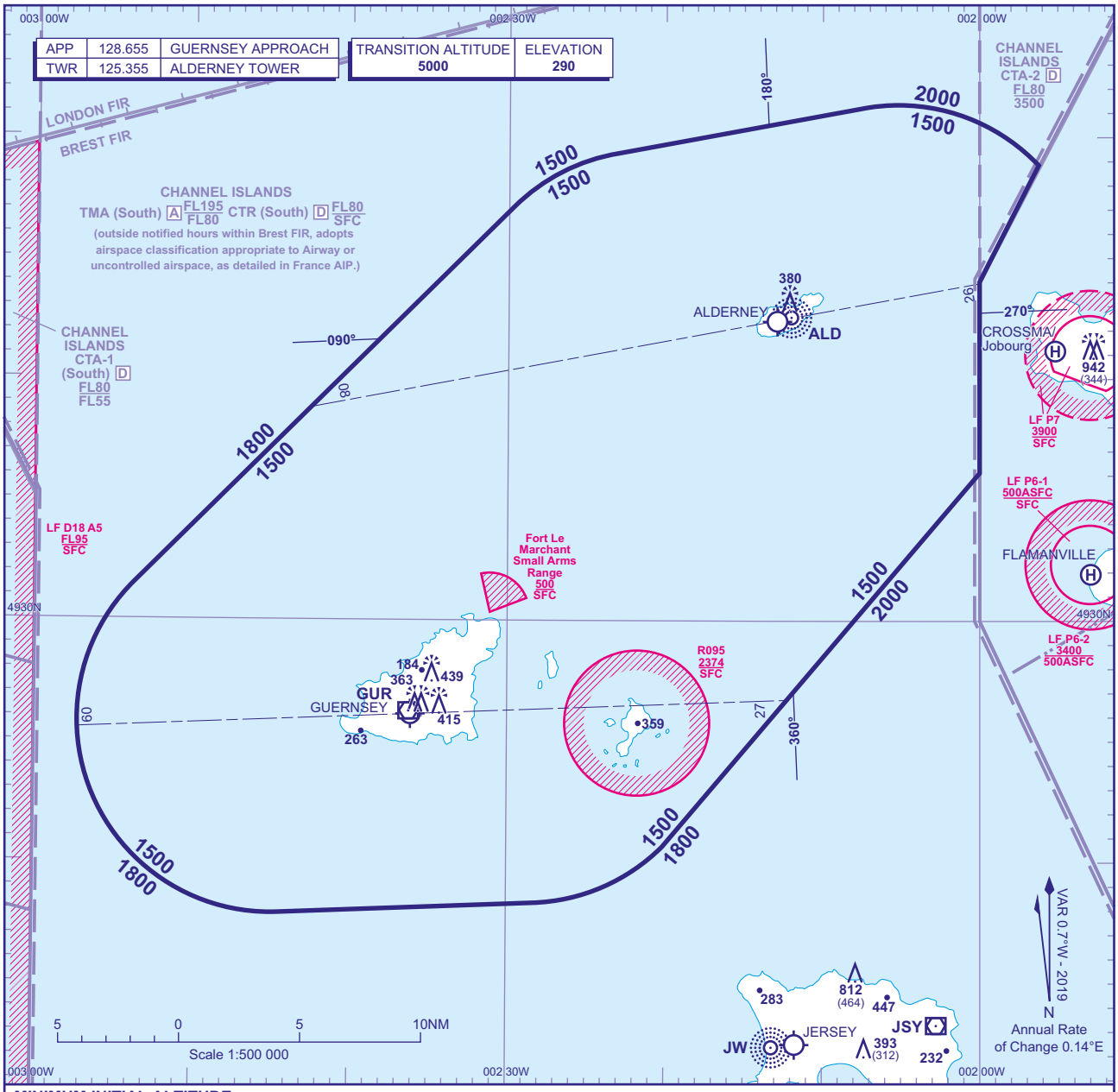
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 812
HEIGHTS IN FEET AGL (464)

ALDERNEY



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the radar controller is **1500** in the sector defined by the lateral limits; 493129N 0025341W - 494705N 0022941W thence clockwise by an arc of a circle radius 8NM centred on 494125N 0022058W to 494919N 0022301W - 495113N 0020710W thence clockwise by an arc of a circle radius 8NM centred on 494320N 0020510W to 494850N 0015613W - 494401N 0020000W - 493607N 0020000W - 492038N 0022007W thence clockwise by an arc of a circle radius 8NM centred on 492618N 0022846W to 491818N 0022821W - 491751N 0024431W thence clockwise by an arc of a circle radius 8NM centred on 492551N 0024458W to 493129N 0025341W.

OUTSIDE THE DESIGNATED APPROACH SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher to **ALD NDB(L)**†.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **ALD NDB(L)**†.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights area shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**

CHANGE (8/19): DANGER AREA LF D18A REDESIGNATED LF D18 A5.

AERO INFO DATE 08 MAY 19

AD 2-EGJA-5-1

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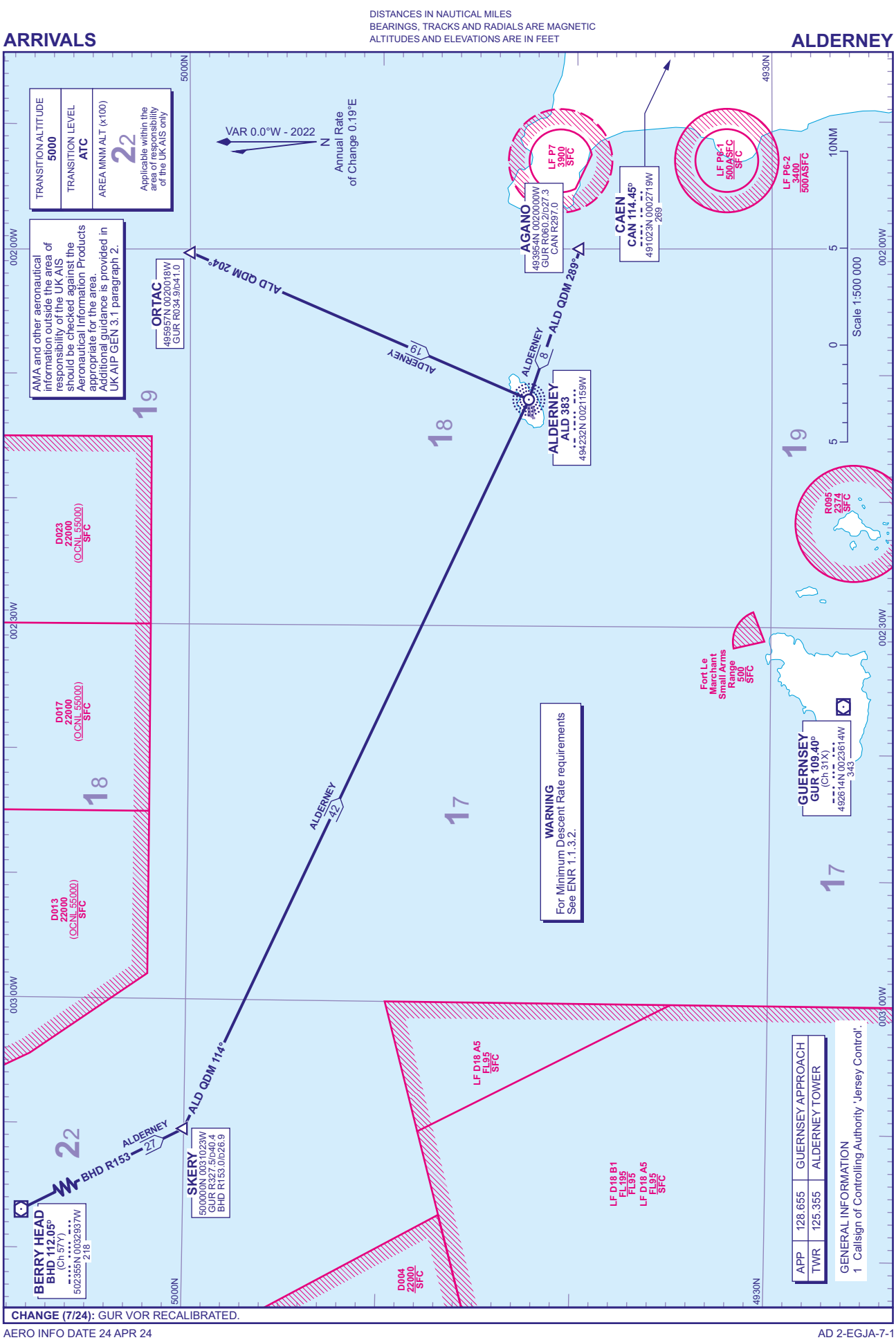

CHANGE (7/24): GUR VOR RECALIBRATED.

AERO INFO DATE 24 APR 24

AD 2-EGJA-7-1

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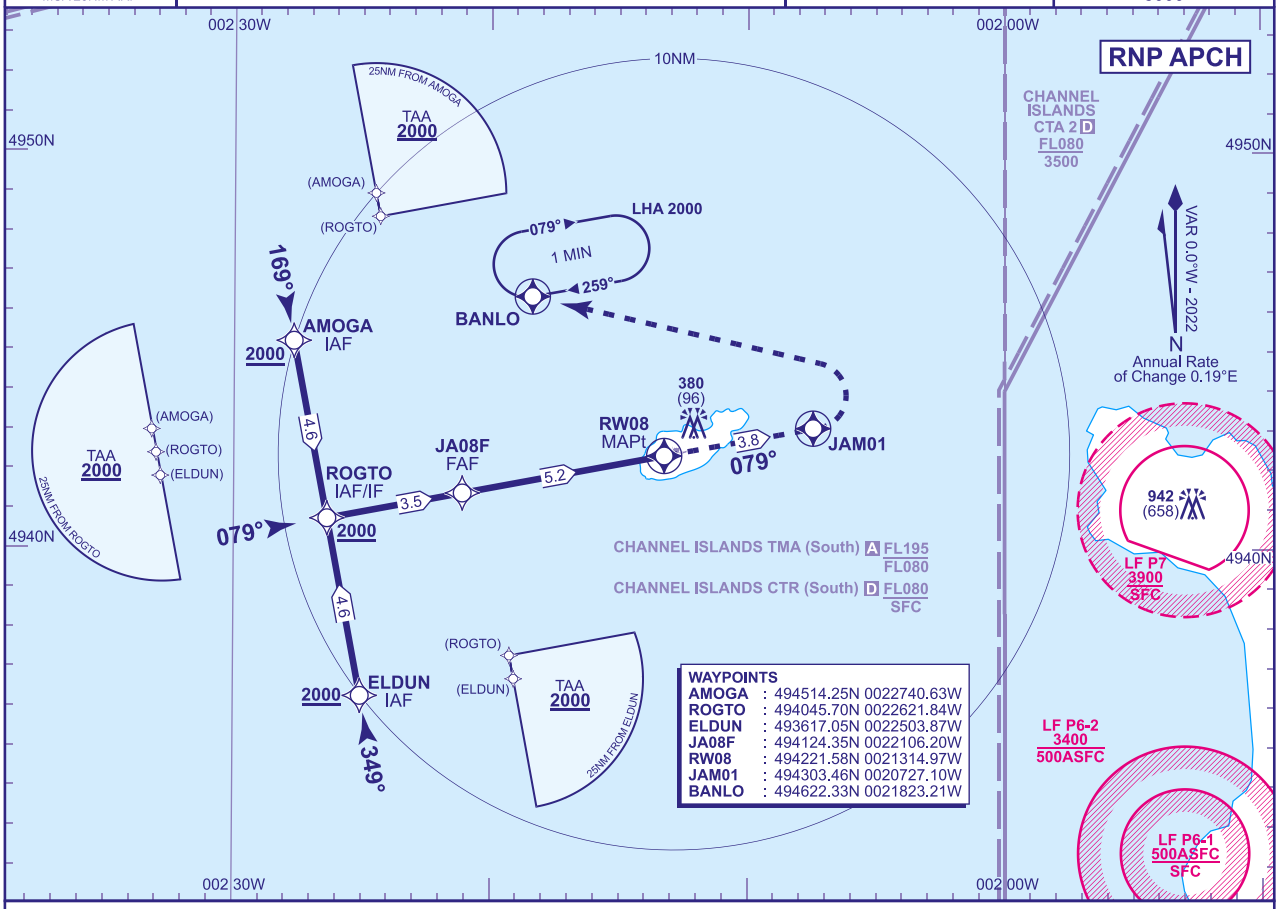
INSTRUMENT APPROACH CHART - ICAO

ALDERNEY
RNP
RWY 08
(ACFT CAT A,B)

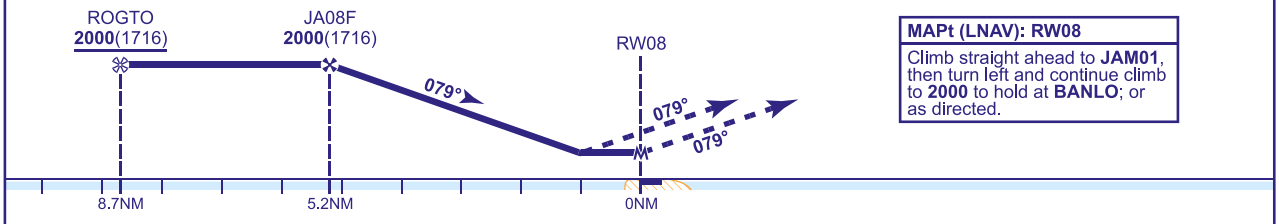
20 MSA 25NM ARP	APP	128.655	GUERNSEY APPROACH	AD ELEVATION	290
	TWR	125.355	ALDERNEY TOWER	THR ELEVATION	284
		130.505	ALDERNEY GROUND	OBSTACLE ELEVATION 942 AMSL (658) (ABOVE THR)	EGNOS CH 45014 E08A
				BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 5000



RECOMMENDED PROFILE LPV - VERTICAL PATH ANGLE 3.0° (LNAV 5.2%), 320FT/NM

NM to RW08	5	4	3	2	1
ALT(HGT)	**1940**(1656)	**1620**(1336)	**1290**(1006)	**970**(686)	**650**(366)

TCH 40



MAPt (LNAV): RW08
Climb straight ahead to **JAM01**, then turn left and continue climb to **2000** to hold at **BANLO**; or as directed.

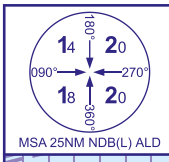
Aircraft Category		A	B
OCA (OCH)	LPV	**590**(306)	**590**(306)
	LNAV	**630**(346)	**630**(346)
VM(C)OCA (OCH AAL)	Total Area	**690**(400)	**790**(500)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

CHANGE (4/25): SPECIFICATION CHANGE.

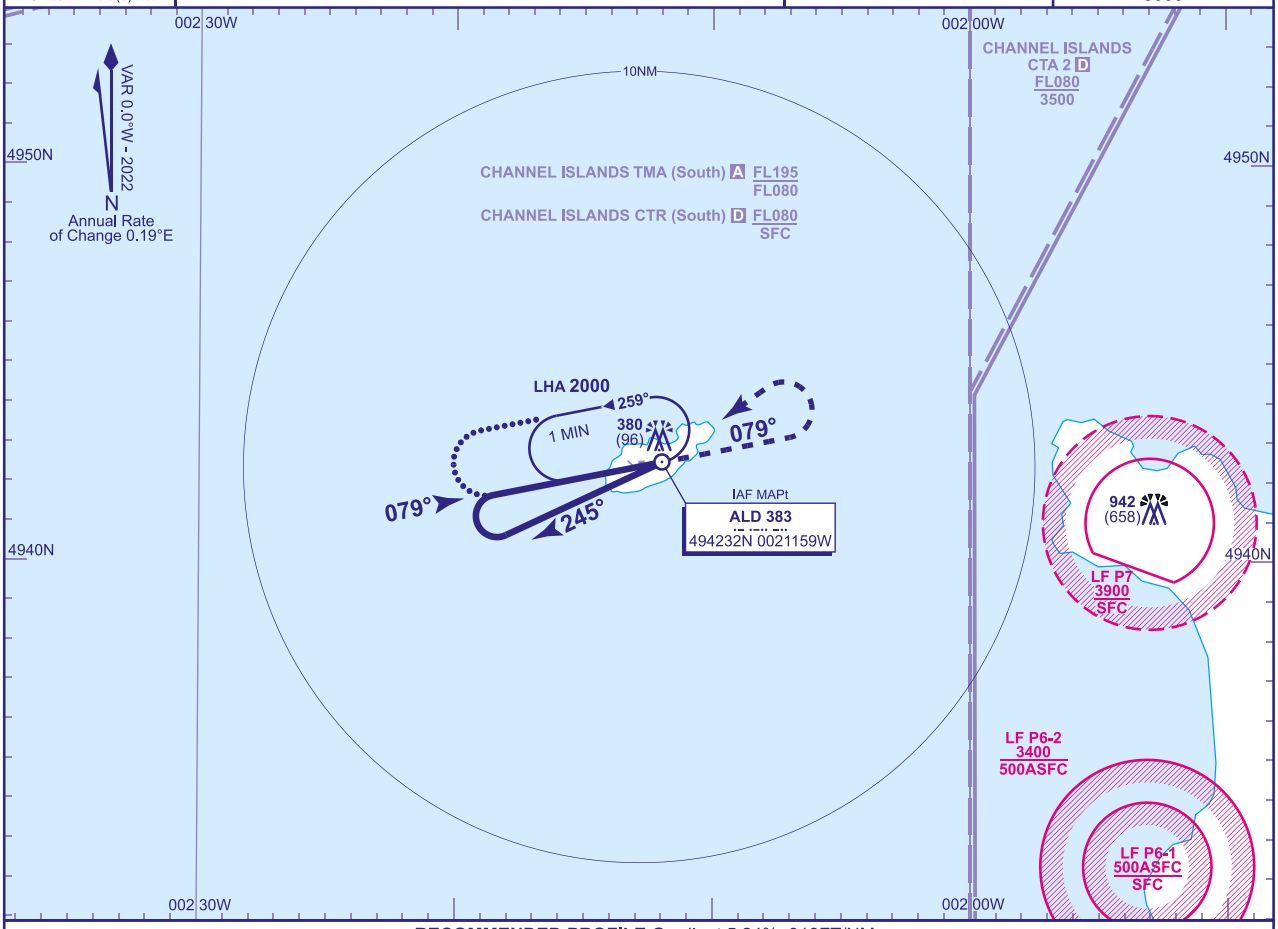
INSTRUMENT APPROACH CHART - ICAO

ALDERNEY NDB(L) RWY 08
(ACFT CAT A)

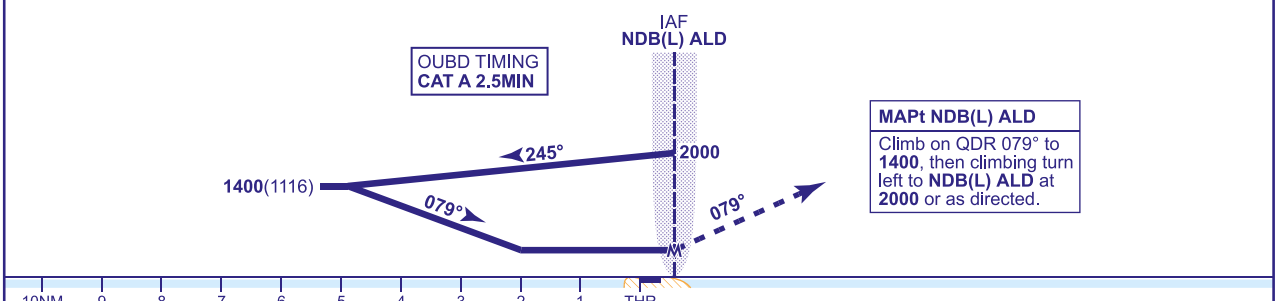


MSA 25NM NDB(L) ALD

APP	128.655	GUERNSEY APPROACH	AD ELEVATION	**290**	
TWR	125.355	ALDERNEY TOWER	THR ELEVATION	**284**	
	130.505	ALDERNEY GROUND	OBSTACLE ELEVATION **942 AMSL** (658) (ABOVE THR)		
			BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE **5000**	



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM



MAPt NDB(L) ALD
Climb on QDR 079° to **1400**, then climbing turn left to **NDB(L) ALD** at **2000** or as directed.

Aircraft Category		A
OCA (OCH)	**Procedure**	**680**(396)
VM(C)OCA (OCH AAL)	**Total Area**	**690**(400)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of hold to 2.5MIN descending to **1400**(1116). Turn left onto FAT and when established descend to MDA.

CHANGE (4/25): SPECIFICATION CHANGE.

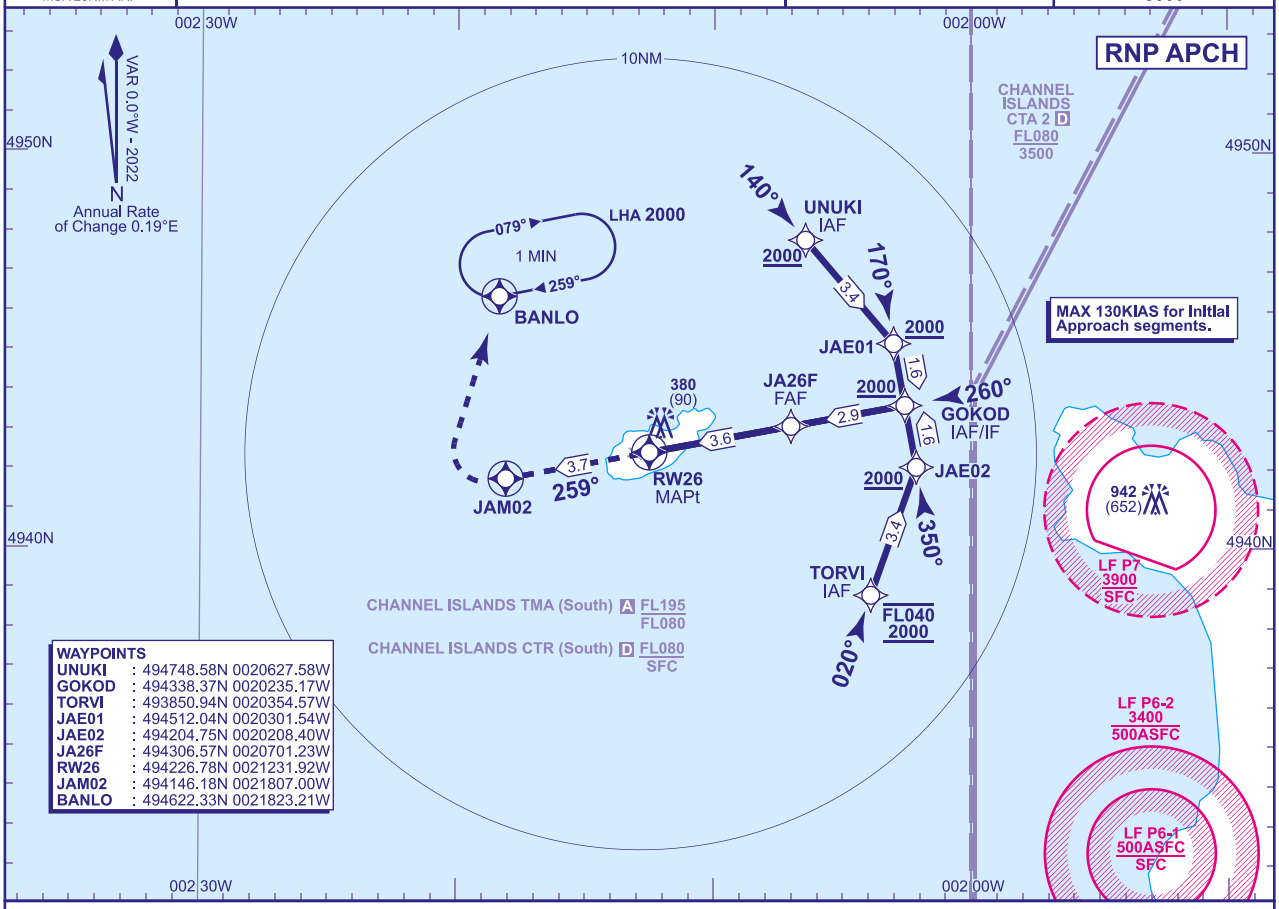
AERO INFO DATE 28 JAN 25

AD 2-EGJA-8-2

INSTRUMENT APPROACH CHART - ICAO

ALDERNEY
RNP
RWY 26
(ACFT CAT A,B)

20 MSA 25NM ARP	APP	128.655	GUERNSEY APPROACH	AD ELEVATION	290
	TWR	125.355	ALDERNEY TOWER	THR ELEVATION	290
		130.505	ALDERNEY GROUND	OBSTACLE ELEVATION 942 AMSL (652) (ABOVE THR)	EGNOS CH 46392 E26A
				BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 5000

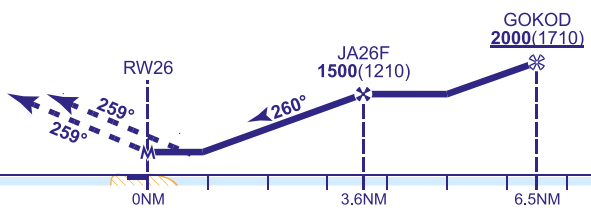


RECOMMENDED PROFILE LPV - VERTICAL PATH ANGLE 3.0° (LNAV 5.2%), 320FT/NM

NM to RW26	3	2	1
ALT(HGT)	**1300**(1010)	**980**(690)	**650**(360)

TCH 40

MAPt (LNAV): RW26
Climb straight ahead to **JAM02**, then turn right and continue climb to **2000** to hold at **BANLO**; or as directed.



Aircraft Category		A	B
OCA (OCH)	LPV	**590**(300)	**590**(300)
	LNAV	**630**(340)	**630**(340)
VM(C)OCA (OCH AAL)	Total Area	**690**(400)	**790**(500)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES 1 Caution - eastern extremes of procedure are close to the boundary of control zone and prohibited and restricted areas.
2 From the hold pilots should expect to route direct from the outbound leg of the hold to UNUKI.

CHANGE (4/25): SPECIFICATION CHANGE.

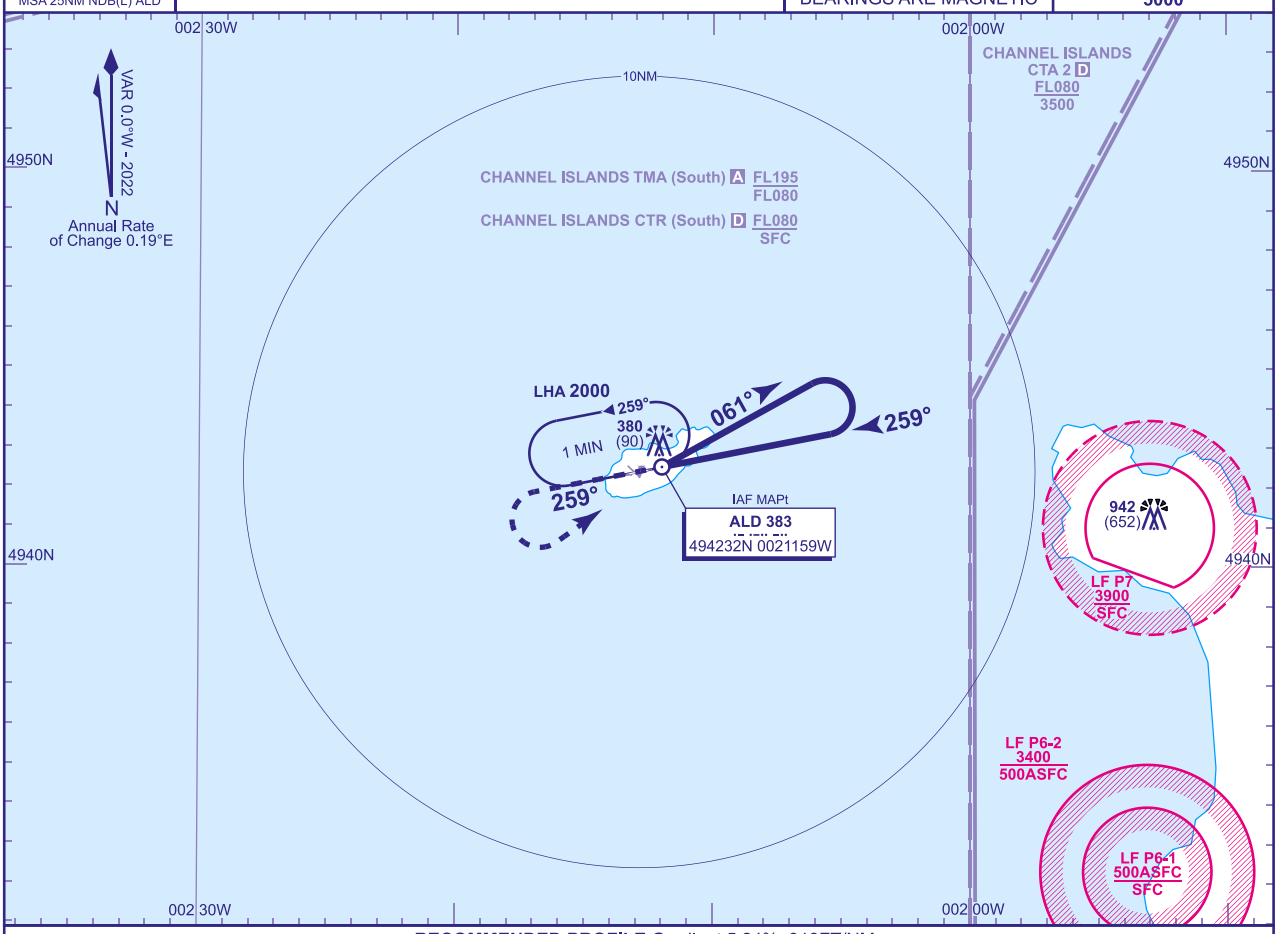
AERO INFO DATE 17 JAN 25

INSTRUMENT APPROACH CHART - ICAO

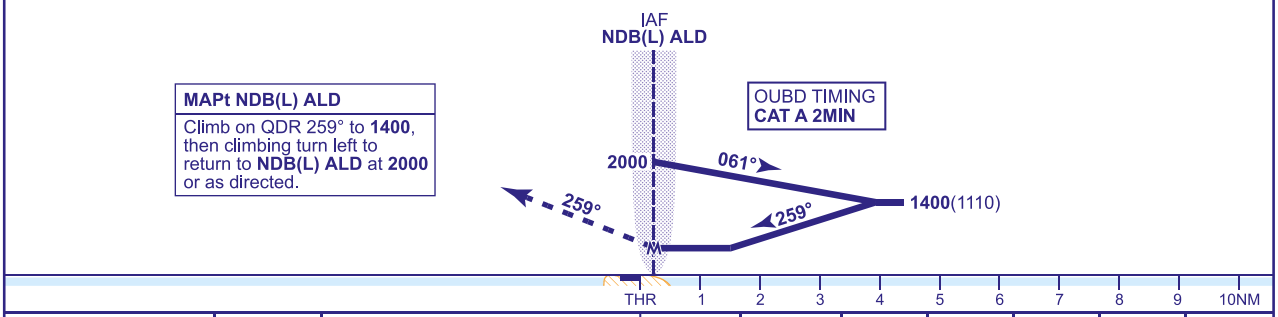
ALDERNEY NDB(L) RWY 26
(ACFT CAT A)

APP	128.655	GUERNSEY APPROACH	AD ELEVATION	**290**	
TWR	125.355	ALDERNEY TOWER	THR ELEVATION	**290**	
	130.505	ALDERNEY GROUND	OBSTACLE ELEVATION **942 AMSL** (652) (ABOVE THR)	TRANSITION ALTITUDE **5000**	
			BEARINGS ARE MAGNETIC		

MSA 25NM NDB(L) ALD



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM



MAPt NDB(L) ALD
Climb on QDR 259° to **1400**, then climbing turn left to return to **NDB(L) ALD** at **2000** or as directed.

Aircraft Category		A
OCA (OCH)	**Procedure**	**680**(390)
VM(C)OCA (OCH AAL)	**Total Area**	**690**(400)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

CHANGE (4/25): SPECIFICATION CHANGE.

AERO INFO DATE 28 JAN 25

AD 2-EGJA-8-4

Instrument Approach Procedure Coding Tables

ALDERNEY RNP RWY 08 - Instrument Approach Procedure via AMOGA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08L	001	IF	AMOGA	N	-	-	2000	-	494514.25N 0022740.63W	IAF GUR R019/D19.8
R08L	002	TF	ROGTO	N	169° (169.2°)	LEFT	2000	-	494045.70N 0022621.84W	IF 8.7NM
R08L	003	TF	JA08F	N	079° (079.3°)	-	2000	-	494124.35N 0022106.20W	FAF 5.2NM
R08L	004	TF	RW08	Y	079° (079.3°)	-	-	-	494221.58N 0021314.97W	MAPt
R08L	005	TF	JAM01	Y	079° (079.4°)	LEFT	-	-	494303.46N 0020727.10W	-
R08L	006	DF	BANLO	Y	-	-	2000	-	494622.33N 0021823.21W	HOLD

ALDERNEY RNP RWY 08 - Instrument Approach Procedure via ROGTO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08C	001	IF	ROGTO	N	-	-	2000	-	494045.70N 0022621.84W	IAF GUR R027/D15.9
R08C	002	TF	JA08F	N	079° (079.3°)	-	2000	-	494124.35N 0022106.20W	FAF 5.2NM
R08C	003	TF	RW08	Y	079° (079.3°)	-	-	-	494221.58N 0021314.97W	MAPt
R08C	004	TF	JAM01	Y	079° (079.4°)	LEFT	-	-	494303.46N 0020727.10W	-
R08C	005	DF	BANLO	Y	-	-	2000	-	494622.33N 0021823.21W	HOLD

ALDERNEY RNP RWY 08 - Instrument Approach Procedure via ELDUN

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08R	001	IF	ELDUN	N	-	-	2000	-	493617.05N 0022503.87W	IAF GUR R039/D12.4
R08R	002	TF	ROGTO	N	349° (349.3°)	RIGHT	2000	-	494045.70N 0022621.84W	IF 8.7NM
R08R	003	TF	JA08F	N	079° (079.3°)	-	2000	-	494124.35N 0022106.20W	FAF 5.2NM
R08R	004	TF	RW08	Y	079° (079.3°)	-	-	-	494221.58N 0021314.97W	MAPt
R08R	005	TF	JAM01	Y	079° (079.4°)	LEFT	-	-	494303.46N 0020727.10W	-
R08R	006	DF	BANLO	Y	-	-	2000	-	494622.33N 0021823.21W	HOLD

CHANGE (4/25): R08R TURN DIRECTION CORRECTED. SPECIFICATION CHANGE.
AERO INFO DATE 03 FEB 25

SBAS FAS Data Block Coding Data

Alderney RNP RWY 08

Input Data	
Parameters	Values
Operation Type	0
SBAS Provider	1
Airport Identifier	EGJA
Runway	08
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E08A
LTP/FTP Latitude	494221.5800N
LTP/FTP Longitude	0021314.9710W
LTP/FTP Ellipsoidal Height (metres)	134.7
FPAP Latitude	494231.6140N
Delta FPAP Latitude (seconds)	10.0340
FPAP Longitude	0021151.8010W
Delta FPAP Longitude (seconds)	83.1700
Threshold Crossing Height	40
TCH Units Selector	0
Glidepath Angle (degrees)	3
Course Width (metres)	105
Length Offset (metres)	824
HAL	40
VAL	50

Output Data	
Data Block	10 01 0A 07 05 08 00 00 01 38 30 05 18 DD 54 15 4A 03 0C FF 43 19 64 4E 00 C4 89 02 90 01 2C 01 64 67 C8 FA BA 52 CF 4F
Calculated CRC Value	BA52CF4F

CHANGE (10/20): RNP REFERENCES ADDED.

AERO INFO DATE 08 APR 20

Instrument Approach Procedure Coding Tables

ALDERNEY RNP RWY 26 - Instrument Approach Procedure via UNUKI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26R	001	IF	UNUKI	N	-	-	2000	-130	494748.58N 0020627.58W	IAF GUR R045/R29.0
R26R	002	TF	JAE01	N	140° (139.5°)	RIGHT	2000	-130	494512.04N 0020301.54W	8.15NM
R26R	003	TF	GOKOD	N	170° (169.7°)	RIGHT	2000	-130	494338.37N 0020235.17W	IF 6.56NM
R26R	004	TF	JA26F	N	260° (259.6°)	-	1500	-	494306.57N 0020701.23W	FAF 3.6NM
R26R	005	TF	RW26	Y	260° (259.5°)	-	-	-	494226.78N 0021231.92W	MAPt
R26R	006	TF	JAM02	Y	259° (259.5°)	RIGHT	-	-	494146.18N 0021807.00W	-
R26R	007	DF	BANLO	Y	-	-	2000	-	494622.33N 0021823.21W	HOLD

ALDERNEY RNP RWY 26 - Instrument Approach Procedure via GOKOD

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26C	001	IF	GOKOD	N	-	-	2000	-130	494338.37N 0020235.17W	IF GUR R054/D28.0
R26C	002	TF	JA26F	N	260° (259.6°)	-	1500	-	494306.57N 0020701.23W	FAF 3.6NM
R26C	003	TF	RW26	Y	260° (259.5°)	-	-	-	494226.78N 0021231.92W	MAPt
R26C	004	TF	JAM02	Y	259° (259.5°)	RIGHT	-	-	494146.18N 0021807.00W	-
R26C	005	DF	BANLO	Y	-	-	2000	-	494622.33N 0021823.21W	HOLD

ALDERNEY RNP RWY 26 - Instrument Approach Procedure via TORVI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26L	001	IF	TORVI	N	-	-	FL040 2000	-130	493850.94N 0020354.57W	IAF GUR R062/D24.5
R26L	002	TF	JAE02	N	020° (019.6°)	LEFT	2000	-130	494204.75N 0020208.40W	8.15NM
R26L	003	TF	GOKOD	N	350° (349.5°)	LEFT	2000	-130	494338.37N 0020235.17W	IF 6.56NM
R26L	004	TF	JA26F	N	260° (259.6°)	-	1500	-	494306.57N 0020701.23W	FAF 3.6NM
R26L	005	TF	RW26	Y	260° (259.5°)	-	-	-	494226.78N 0021231.92W	MAPt
R26L	006	TF	JAM02	Y	259° (259.5°)	RIGHT	-	-	494146.18N 0021807.00W	-
R26L	007	DF	BANLO	Y	-	-	2000	-	494622.33N 0021823.21W	HOLD

CHANGE (4/25): SPECIFICATION CHANGE.
AERO INFO DATE 03 FEB 25

SBAS FAS Data Block Coding Data

Alderney RNP RWY 26

Input Data	
Parameters	Values
Operation Type	0
SBAS Provider	1
Airport Identifier	EGJA
Runway	26
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E26A
LTP/FTP Latitude	494226.7760N
LTP/FTP Longitude	0021231.9220W
LTP/FTP Ellipsoidal Height (metres)	136.4
FPAP Latitude	494216.7335N
Delta FPAP Latitude (seconds)	-10.0425
FPAP Longitude	0021355.0875W
Delta FPAP Longitude (seconds)	-83.1655
Threshold Crossing Height	40
TCH Units Selector	0
Glidepath Angle (degrees)	3
Course Width (metres)	105
Length Offset (metres)	824
HAL	40
VAL	50

Output Data	
Data Block	10 01 0A 07 05 1A 00 00 01 36 32 05 B0 05 55 15 9C 53 0D FF 54 19 8B B1 FF 45 76 FD 90 01 2C 01 64 67 C8 FA 23 84 2F D8
Calculated CRC Value	23842FD8

CHANGE (10/20): RNP REFERENCES ADDED.

EGSL — ANDREWSFIELD

EGSL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSL — ANDREWSFIELD

EGSL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515342N Long: 0002657E Mid point of Runway 09L/27R
2	Direction and distance from city	4 NM WNW of Braintree.
3	Elevation / Reference temperature / Mean Low Temperature	286 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.69°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax	ANDREWSFIELD AVIATION LTD. Saling Aerodrome, Stebbing, Great Dunmow, Essex, CM6 3TH. 01371-856744 01371-856500
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGSL AD 2.3 OPERATIONAL HOURS

1	AD Administration	0830-2100 (0800-1900) and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR by telephone only. See also AD 2.20.

EGSL AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100L. W80.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGSL AD 2.5 PASSENGER FACILITIES

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EGSL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	

3	Capability for removal of disabled aircraft	
4	Remarks	

EGSL AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGSL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGSL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Windsock lit during night flying.

EGSL AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
09/APPROACH/ 27/TAKE-OFF	Vehicles on road	515340.00N 0002634.00E	291 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGSL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGSL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
09L	085.11°	799 x - M	RWY surface: Grass	515341.04N 0002641.40E	THR 275.0 FT	
27R	265.12°	799 x - M	RWY surface: Grass	515343.02N 0002718.84E	THR 278.0 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
09R	085.11°	799 x - M	RWY surface: Grass	515340.00N 0002641.00E	THR 275.0 FT	
27L	265.12°	799 x - M	RWY surface: Grass	515342.00N 0002719.00E	THR 278.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 09L Threshold displaced by 79 M to provide 1:20 clearance over vehicles on road. Two 18 M wide runways by day, single 36 M wide runway by night.
						RWY 27R Two 18 M wide runways by day, single 36 M wide runway by night.
						RWY 09R Threshold displaced by 79 M to provide 1:20 clearance over vehicles on road. Two 18 M wide runways by day, single 36 M wide runway by night.
						RWY 27L Two 18 M wide runways by day, single 36 M wide runway by night.

EGSL AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09L	799 M	799 M	799 M	720 M	
09R	799 M	799 M	799 M	720 M	
27L	799 M	799 M	799 M	799 M	
27R	799 M	799 M	799 M	799 M	

EGSL AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09L		Light intensity low Green wingbars			Omni-directional Light intensity low	White	Red wingbars		
27R		Light intensity low Green wingbars	APAPI Left/3° 20 FT		Omni-directional Light intensity low	White	Red wingbars		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09R		Light intensity low Green wingbars			Omni-directional Light intensity low	White	Red wingbars		
27L		Light intensity low Green wingbars	APAPI Left/3° 20 FT		Omni-directional Light intensity low	White	Red wingbars		

EGSL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 515345.00N 0002706.00E Flashing Green 'AF'.
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGSL AD 2.16 HELICOPTER LANDING AREA

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EGSL AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ANDREWSFIELD ATZ A circle, 2 NM radius, centred at 515342N 0002657E on longest notified runway (09/ 27)	Upper limit: 2000 FT AGL Lower limit: SFC	D	ANDREWSFIELD RADIO English	6000 FT		Airspace Class: D and G Note: Partly within London Stansted CTR, CTA 1 and CTA 3.

EGSL AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	ANDREWSFIELD RADIO	130.555 A/G frequency.			0830-2100 (0800-1900) and by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGSL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGSL AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome is not available at night for public transport flights. Use at night by aircraft required to use a licensed aerodrome is confined to operations by Andrewsfield Aviation Ltd using RWY 27.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Aerodrome is located on the eastern edge of the Stansted CTR and below the Stansted CTA. See AD 2-EGSS 2.17.
b) Helicopter hovering operations take place south of Runway.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

Not applicable.

EGSL AD 2.21 NOISE ABATEMENT PROCEDURES

Noise abatement procedures in force. Obtain brief before departure.

EGSL AD 2.22 FLIGHT PROCEDURES

a) Circuit height 700 ft QFE, normal direction: Runway 09/27 - RH. Microlight circuits at 500 ft QFE inside the normal circuit pattern.
b) Andrewsfield Local Flying Area (LFA) and Procedures:

i. Part of the Andrewsfield ATZ (to the northwest of the Aerodrome) lies within the London Stansted CTR and the remainder lies partly within and partly beneath the London Stansted CTA. Subject to any listed restrictions, flights without reference to Stansted ATC may be made within the confines of the LFA.
ii. An LFA exists within the same lateral limits as the ATZ with a vertical limit of 1500 ft QNH. Aircraft shall remain clear of cloud, in sight of the surface and in a flight visibility of at least 3 km;
iii. Irrespective of whether they are in communication with Stansted ATC or not, aircraft that intend to penetrate the LFA during the hours of operation of the Andrewsfield A/G station, must not do so without first obtaining information from the Andrewsfield A/G station.

EGSL AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGSL AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSL-2-1

EGSL AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

ANDREWSFIELD EGSL

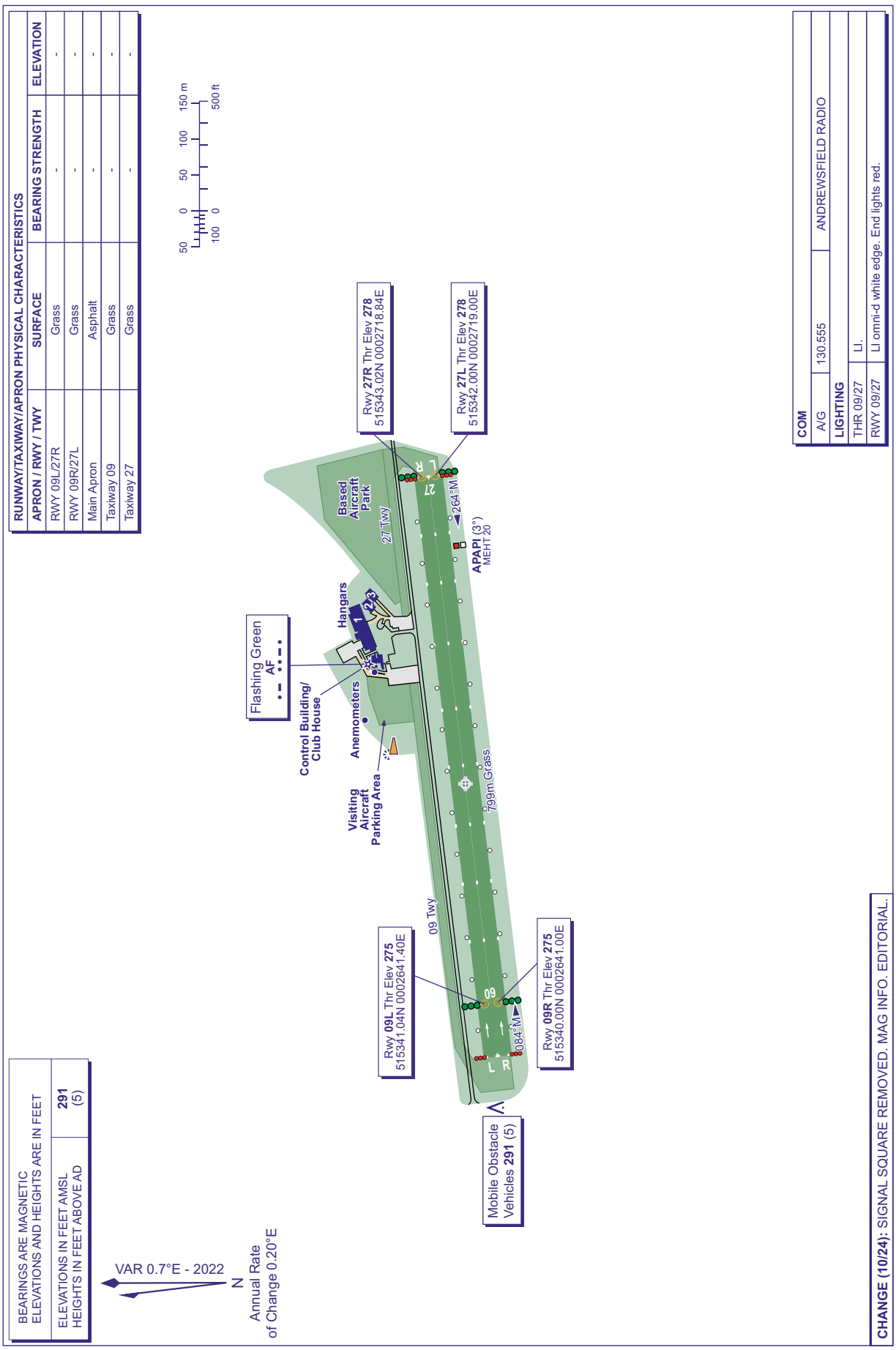
AD ELEV 286FT

ARP 515342N 0002657E

AERODROME CHART - ICAO

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 09L/27R	Grass	-	-
RWY 09R/27L	Grass	-	-
Main Apron	Asphalt	-	-
Taxiway 09	Grass	-	-
Taxiway 27	Grass	-	-

COM		
A/G	130.555	ANDREWSFIELD RADIO
LIGHTING		
THR 09/27	LI.	
RWY 09/27	LI omni-d white edge. End lights red.	



BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	291 (5)

CHANGE (10/24): SIGNAL SQUARE REMOVED. MAG INFO. EDITORIAL.

AERO INFO DATE 11 JUL 24

AD 2-EGSL-2-1

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EGPR — BARRA

EGPR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPR — BARRA

EGPR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 570125N Long: 0072630W Centre point of airport is 140 M West of Runway 29 threshold on South edge of Runway 11/29
2	Direction and distance from city	4.3 NM NE of Castlebay.
3	Elevation / Reference temperature / Mean Low Temperature	5 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	190 FT
5	Magnetic Variation / Annual Change	3.11°W (2022) / 0.23°E
6	AD Administration Address Telephone E-mail address	HIAL Barra Aerodrome, North Bay, Isle of Barra, Western Isles, HS9 5YD. 01871-890212 Barrafiso@hial.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPR AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 1030-1530 (0930-1430); Sun 1100-1215 (1000-1115); and by arrangement with AD operator (HIAL). AD availability subject to tidal variation.
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Prior Permission Required at this Aerodrome. Arrival/Departure times may be allocated. Aircraft movements at Barra prohibited outside AD/ATS hours except in an emergency.

EGPR AD 2.4 HANDLING SERVICES AND FACILITIES

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EGPR AD 2.5 PASSENGER FACILITIES

1	Hotels	On Island.
2	Restaurants	Cafeteria in Terminal.
3	Transportation	Car Hire, Taxies and Bus on Island.
4	Medical facilities	First Aid, Local Doctor and Ambulance available.
5	Bank and Post Office	Located at Castlebay.
6	Tourist Office	Located at Castlebay.
7	Remarks	Wheelchair and Stairclimber available for disabled passenger handling.

EGPR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission.
2	Rescue equipment	Water rescue facilities are available for all Runways during published opening hours and special openings subject to, serviceability of equipment and times when the weather conditions and sea state are conducive to such rescue operations.
3	Capability for removal of disabled aircraft	
4	Remarks	

EGPR AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGPR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGPR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Two WDI: 570134.44N 0072648.95W; 570116.89N 0072650.98W.

EGPR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPR3002) 15/APPROACH 33/ TAKE-OFF	MOBILE OBST	570133.72N 0072653.50W	27 FT	3 FT	No	
(EGPR3131) 15/APPROACH 33/ TAKE-OFF	MP 15	570133.64N 0072653.22W	22 FT	3 FT	No	
(EGPR3132) 11/APPROACH 29/ TAKE-OFF	MP 11	570129.27N 0072659.82W	23 FT	4 FT	No	
(EGPR3006) 11/APPROACH 29/ TAKE-OFF	MOBILE OBST	570129.06N 0072700.41W	29 FT	4 FT	No	
(EGPR3133) 07/APPROACH 25/ TAKE-OFF	MP 07	570126.37N 0072659.24W	15 FT	2 FT	No	
(EGPR3135) 29/APPROACH 11/ TAKE-OFF	MP29	570124.70N 0072615.42W	16 FT	0 FT	No	
(EGPR3136) 33/APPROACH 15/ TAKE-OFF	MP 33	570110.87N 0072617.55W	13 FT	0 FT	No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGPR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	F214 UK Spot wind forecast chart and F215 UK low-level forecast chart.
8	Supplementary equipment available for providing information	Internet access to MET Office.
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Local METARs available during AD hours.

EGPR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
07	066.06°	799 x 60 M	RWY surface: Sand	570129.01N 0072648.43W 190.0 FT	THR 3.6 FT	
25	246.07°	799 x 60 M	RWY surface: Sand	570139.48N 0072605.17W 190.0 FT	THR 1.4 FT	
11	100.68°	680 x 46 M	RWY surface: Sand	570128.67N 0072654.00W 190.0 FT	THR 4.5 FT	
29	280.69°	680 x 46 M	RWY surface: Sand	570125.30N 0072621.24W 190.0 FT	THR 1.4 FT	
15	139.48°	846 x 46 M	RWY surface: Sand	570131.18N 0072649.38W 190.0 FT	THR 4.4 FT	
33	319.48°	846 x 46 M	RWY surface: Sand	570113.32N 0072621.39W 190.0 FT	THR 0.7 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 07
						RWY 25
						RWY 11 Threshold displaced by 50 M to allow 1:20 over marker post.
						RWY 29 Threshold displaced by 70 M to allow 1:20 over marker post.
						RWY 15 Threshold displaced by 50 M to clear marker post and dunes.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 33 Threshold displaced by 70 M to clear marker post.

EGPR AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	799 M	799 M	799 M	799 M	
15	799 M	799 M	799 M	796 M	
25	799 M	799 M	799 M	799 M	
33	799 M	799 M	799 M	776 M	
11	667 M	667 M	667 M	617 M	
29	667 M	667 M	667 M	597 M	

EGPR AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGPR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 570134.15N 0072648.53W (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Generator/15 seconds
5	Remarks	

EGPR AD 2.16 HELICOPTER LANDING AREA

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EGPR AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BARRA ATZ A circle, 2 NM radius, centred at 570122N 0072635W on longest notified runway (15/ 33)	Upper limit: 2000 FT AGL Lower limit: SFC	G	BARRA INFORMATION English	3000 FT		

EGPR AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	BARRA INFORMATION	118.080 DOC 25 NM/4000 FT.			Mon-Sat 1030-1530 (0930-1430); Sun 1100-1215 (1000-1115).	ATZ hours coincident with AFIS hours, but not by arrangement. ATZ/AFIS Mon-Fri hours of service regularly change due to tidal variation, consult FIS Barra for information.

EGPR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB 2.06°W (2027)	BRR	316.000 kHz	Mon-Sat 1030-1530 (0930-1430); Sun 1100-1215 (1000-1115); and by arrangement.	570133.21N 0072657.00W		On AD. Range 15 NM.

EGPR AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of Barra aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.

2 GROUND MOVEMENT

a) Marshalling is not available and aircraft have to self park.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The landing and take-off areas may be considerably ridged by hard sand and contain pools of standing water. These are potential hazards to aircraft.
b) The bearing strength, braking action and contamination of the beach is unknown, variable and unpredictable.
c) Some downdraughts may be experienced at the western end of Runway 07/25 in strong wind from the west through south.
d) Pilots should be aware that cockling activities frequently take place between the runway markers and the tide-line. Both pedestrian and vehicular activity may occur and from the air may appear to infringe the runway thresholds during published aerodrome opening hours. This activity is closely monitored by FIS. A flashing white light on top of the Control Tower advises the local Cocklers that an aircraft movement is imminent and is in no way to be used as a navigational aid by aircrew.
e) High ground rising to 338 FT AMSL 0.75 NM to the north.
High ground rising to 294 FT AMSL 2.2 NM to the northeast.
High ground rising to 680 FT AMSL within 1.5 NM to the south.
High ground rising to 680 FT AMSL within 1.5 NM to the south.
Telegraph wires 20 FT AMSL, adjacent to the western boundary of the landing area.

Obstacle protected surfaces are infringed by high ground up to 700 FT AMSL between the south and west, and to a lesser extent by high ground up to 340 FT AMSL to the north of the aerodrome. The minima of 3 KM visibility and cloud base of 1000 FT AAL must therefore

be strictly adhered to, except where an AOC holder has a less restrictive State authorised approach minima. Pilots must be able to see and avoid obstacles on take-off and landing.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Runway departure restriction for aircraft requiring the use of a licensed aerodrome:

i. Runways 07/25, 11/29 and 15/33. Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 800 M or less are not permitted.

7 TRAINING

Not applicable

EGPR AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGPR AD 2.22 FLIGHT PROCEDURES

Not applicable

EGPR AD 2.23 ADDITIONAL INFORMATION

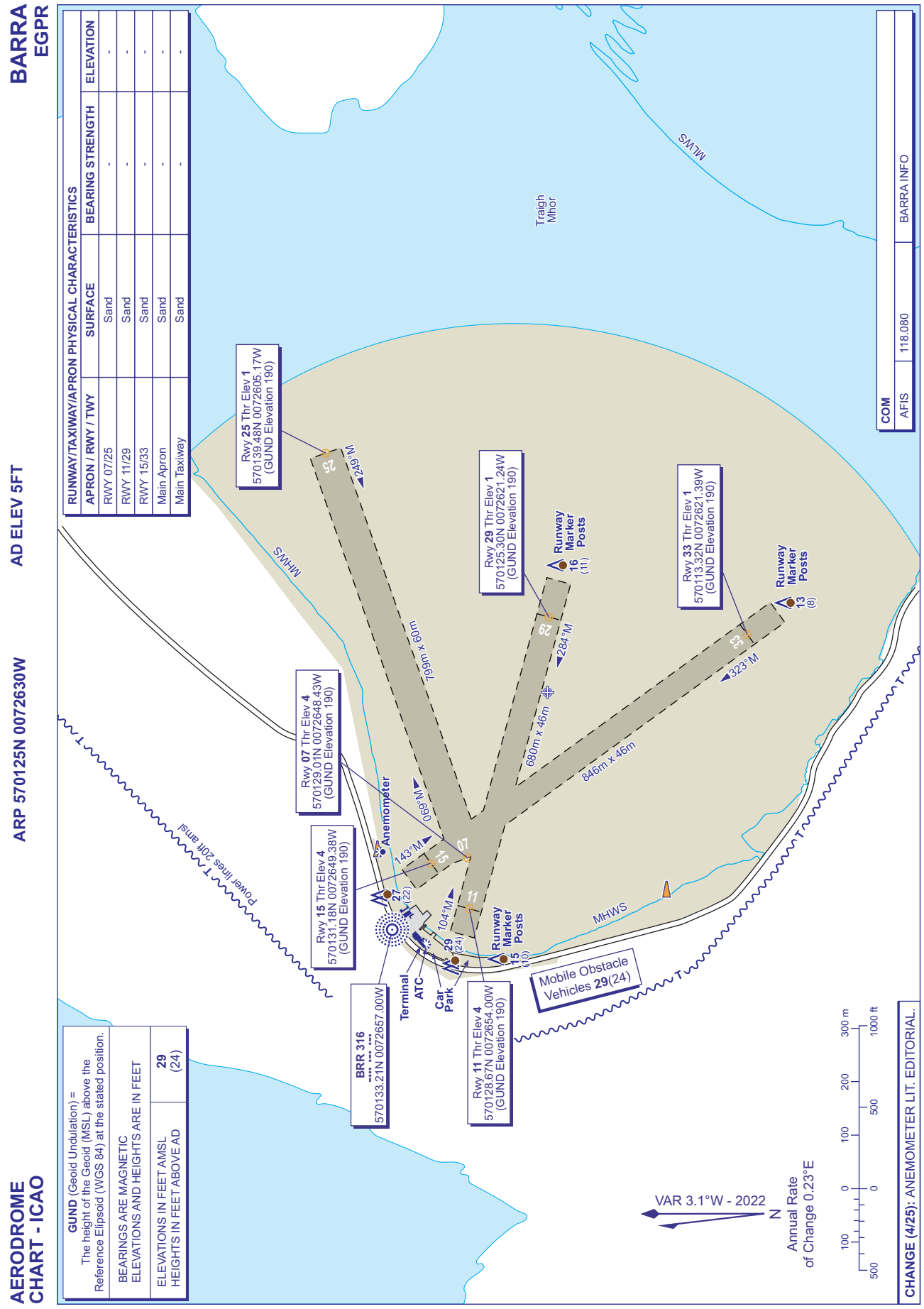
Not applicable

EGPR AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPR-2-1
INSTRUMENT APPROACH CHART RNP RWY 15 (CAT A,B) - ICAO
AD 2.EGPR-8-1
INSTRUMENT APPROACH CHART RNP RWY 25 (CAT A,B) - ICAO
AD 2.EGPR-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 15
AD 2.EGPR-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 25
AD 2.EGPR-8-4

EGPR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable


BARRA
EGPR
AERODROME
CHART - ICAO
ARP 570125N 0072630W
AD ELEV 5FT
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
BEARING STRENGTH
ELEVATION
RWY 07/25
Sand
-
-
RWY 11/29
Sand
-
-
RWY 15/33
Sand
-
-
Main Apron
Sand
-
-
Main Taxiway
Sand
-
-
COM
AFIS
118.080
BARRA INFO
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
29
(24)
Rwy 25 Thr Elev 1
570139.48N 0072605.17W
(GUND Elevation 190)
Rwy 29 Thr Elev 1
570125.30N 0072621.24W
(GUND Elevation 190)
Rwy 33 Thr Elev 1
570113.32N 0072621.39W
(GUND Elevation 190)
Rwy 07 Thr Elev 4
570129.01N 0072648.43W
(GUND Elevation 190)
Rwy 15 Thr Elev 4
570131.18N 0072649.38W
(GUND Elevation 190)
Rwy 11 Thr Elev 4
570128.67N 0072654.00W
(GUND Elevation 190)
BRR 316
570133.21N 0072657.00W
Runway Marker Posts 16 (11)
Runway Marker Posts 13 (8)
Runway Marker Posts 15 (10)
Anemometer
Terminal
ATC
Car Park
799m x 60m
680m x 46m
846m x 46m
249°M
284°M
323°M
143°M
104°M
MHWS
MLWS
Traigh Mhor
Power lines 20ft amsl
Mobile Obstacle Vehicles 29(24)
VAR 3.1°W - 2022
Annual Rate of Change 0.23°E
CHANGE (4/25): ANEMOMETER LIT. EDITORIAL.

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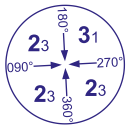
INSTRUMENT APPROACH CHART - ICAO

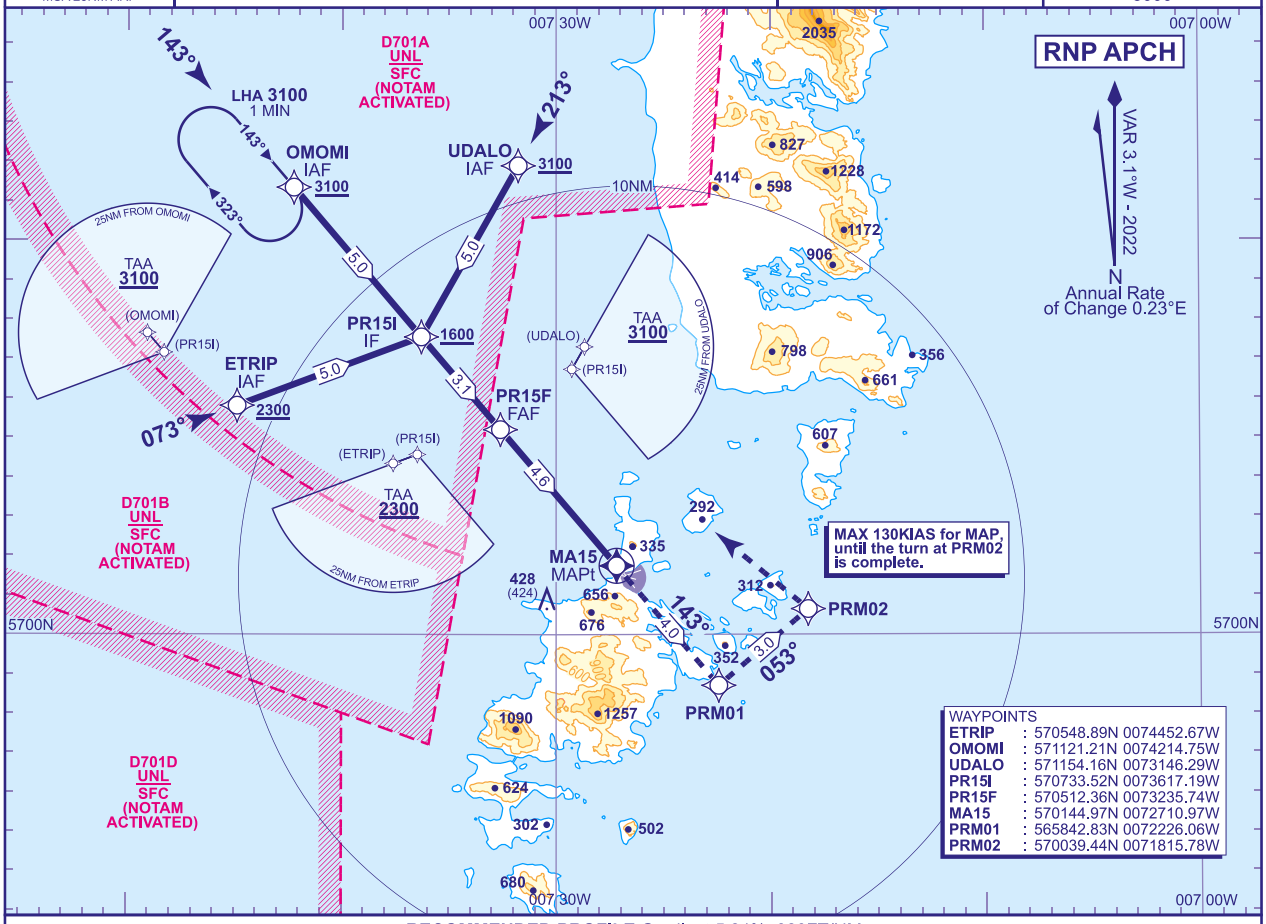
BARRA
RNP
RWY 15
(ACFT CAT A,B)



MSA 25NM ARP

AFIS 118.080	BARRA INFORMATION	AD ELEVATION	5
		THR ELEVATION	4
		OBSTACLE ELEVATION 428 AMSL (424) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

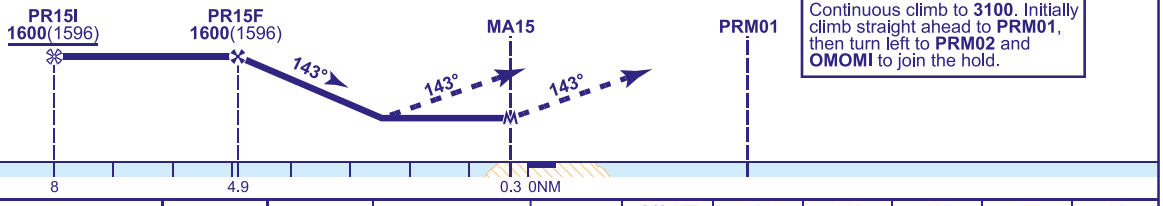
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

NM to MA15	4	3
ALT(HGT)	**1410**(1406)	**1090**(1086)

TCH 40



MAPt (LNAV): MA15
(0.3NM before THR RWY 15)
Continuous climb to **3100**. Initially climb straight ahead to **PRM01**, then turn left to **PRM02** and **OMOMI** to join the hold.

Aircraft Category		A	B
OCA (OCH)	**LNAV**	**800**(796)	**800**(796)
VM(C)OCA (OCH AAL)	**Total Area**	**Not Authorised**	
	North of RWYs 250°M clockwise to 160°M	**810**(805)	**810**(805)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

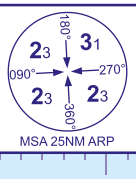
NOTE
1 High ground lies in the vicinity of the missed approach area. Do not depart from procedure unless in VMC.
2 Severe turbulence can occur when wind exceeds 30KTS at **2000** within the arc 160°T - 240°T.
3 Procedure interacts with Danger Areas EGD701A and EGD701B. Procedure not available when Danger areas are active.
4 Use of this RNP procedure is strictly PPR from the aerodrome operator.
5 Prior to commencing the procedure, pilots are to broadcast on AFIS 118.080 with flight details and intentions.

CHANGE (10/24): SPECIFICATION CHANGE.

AERO INFO DATE 17 JUL 24
AD 2-EGPR-8-1

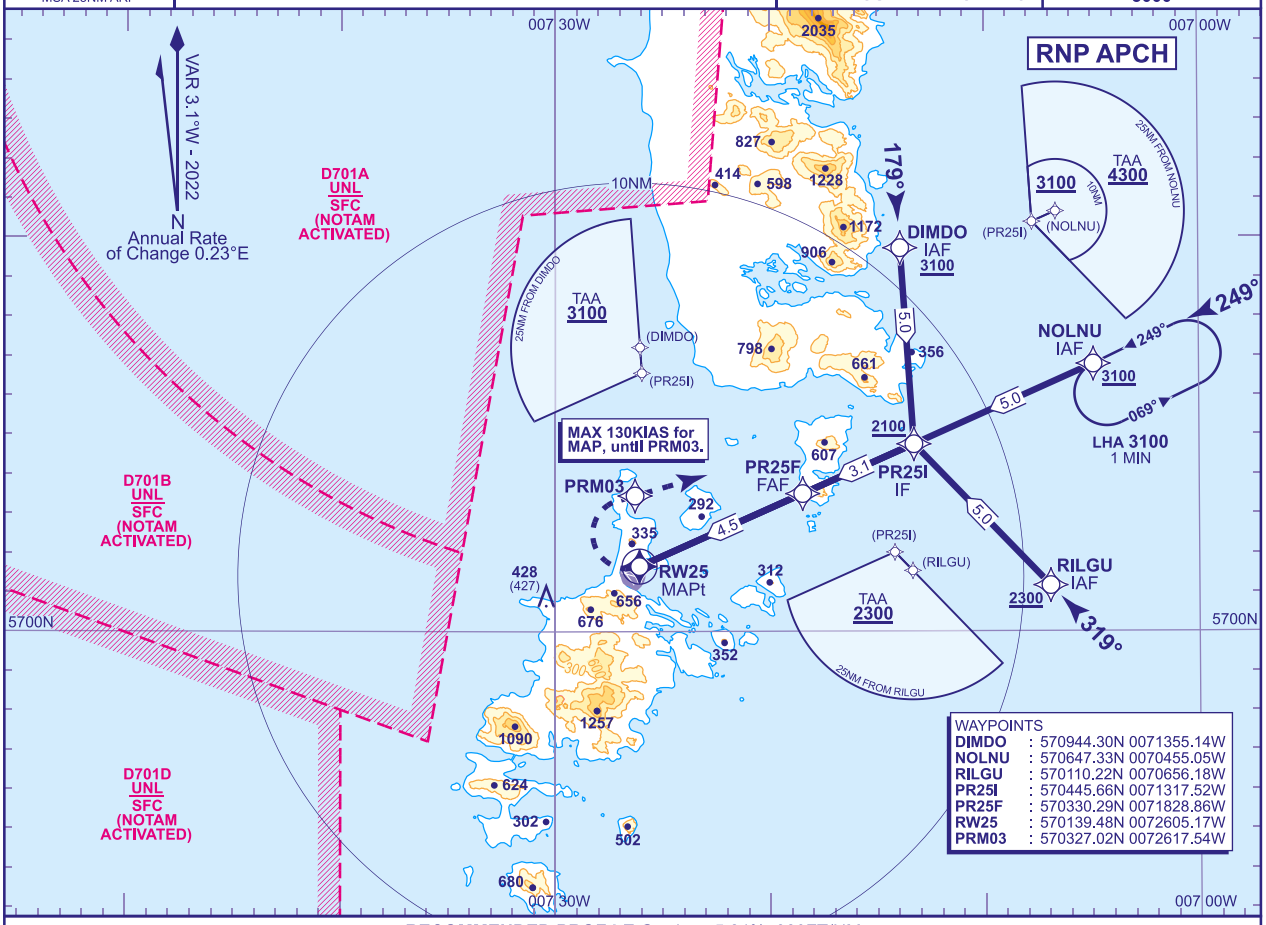
INSTRUMENT APPROACH CHART - ICAO

BARRA RNP RWY 25
(ACFT CAT A,B)



AFIS 118.080	BARRA INFORMATION	AD ELEVATION 5
		THR ELEVATION 1
		OBSTACLE ELEVATION 428 AMSL (427) (ABOVE THR)
		BEARINGS ARE MAGNETIC

TRANSITION ALTITUDE **3000**



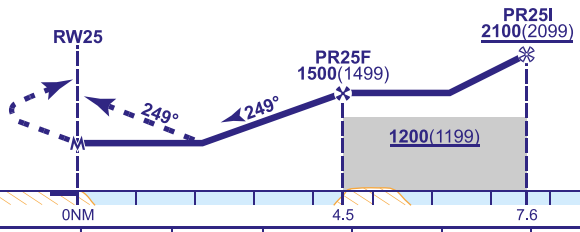
RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

NM to RW25	4	3
ALT(HGT)	**1320**(1319)	**1000**(999)

TCH 40

MAPt (LNAV): RW25

Continuous climb to **3100**.
At **RW25** turn right to **PRM03**, **NOLNU** to join the hold.
MAX 130 KIAS until **PRM03**.



Aircraft Category		A	B
OCA (OCH)	LNAV	**830**(829)	**830**(829)
VM(C)OCA (OCH AAL)	Total Area	Not Authorised	
	North of RWYs 250°M clockwise to 160°M	**840**(835)	**840**(835)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE
1 High ground lies in the vicinity of the missed approach area. Do not depart from procedure unless in VMC.
2 Severe turbulence can occur when wind exceeds 30KTS at **2000** within the arc 160°T - 240°T.
3 Use of this RNP procedure is strictly PPR from the aerodrome operator.
4 Prior to commencing the procedure, pilots are to broadcast on AFIS 118.080 with flight details and intentions.

CHANGE (10/24): SPECIFICATION CHANGE.

AERO INFO DATE 19 JUL 24 AD 2-EGPR-8-2

Instrument Approach Procedure Coding Tables

BARRA RNP RWY 15 - Instrument Approach Procedure via ETRIP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R15R	001	IF	ETRIP	N	-	-	2300	-	570548.89N 0074452.67W	IAF
R15R	002	TF	PR15I	N	073° (069.5°)	RIGHT	1600	-	570733.52N 0073617.19W	IF / 7.7NM
R15R	003	TF	PR15F	N	143° (139.4°)	-	1600	-	570512.36N 0073235.74W	FAF / 4.55NM
R15R	004	TF	MA15	Y	143° (139.5°)	-	-	-	570144.97N 0072710.97W	MAPt
R15R	005	CF	PRM01	N	143° (139.5°)	LEFT	-	-130	565842.83N 0072226.06W	-
R15R	006	TF	PRM02	N	053° (049.5°)	LEFT	-	-130	570039.44N 0071815.78W	-
R15R	007	TF	OMOMI	Y	313° (309.5°)	-	3100	-	571121.21N 0074214.75W	HOLD

BARRA RNP RWY 15 - Instrument Approach Procedure via OMOMI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R15C	001	IF	OMOMI	N	-	-	3100	-	571121.21N 0074214.75W	IAF
R15C	002	TF	PR15I	N	143° (139.5°)	-	1600	-	570733.52N 0073617.19W	IF / 7.7NM
R15C	003	TF	PR15F	N	143° (139.4°)	-	1600	-	570512.36N 0073235.74W	FAF / 4.55NM
R15C	004	TF	MA15	Y	143° (139.5°)	-	-	-	570144.97N 0072710.97W	MAPt
R15C	005	CF	PRM01	N	143° (139.5°)	LEFT	-	-130	565842.83N 0072226.06W	-
R15C	006	TF	PRM02	N	053° (049.5°)	LEFT	-	-130	570039.44N 0071815.78W	-
R15C	007	TF	OMOMI	Y	313° (309.5°)	-	3100	-	571121.21N 0074214.75W	HOLD

BARRA RNP RWY 15 - Instrument Approach Procedure via UDALO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R15L	001	IF	UDALO	N	-	-	3100	-	571154.16N 0073146.29W	IAF
R15L	002	TF	PR15I	N	213° (209.5°)	LEFT	1600	-	570733.52N 0073617.19W	IF / 7.7NM
R15L	003	TF	PR15F	N	143° (139.4°)	-	1600	-	570512.36N 0073235.74W	FAF / 4.55NM
R15L	004	TF	MA15	Y	143° (139.5°)	-	-	-	570144.97N 0072710.97W	MAPt
R15L	005	CF	PRM01	N	143° (139.5°)	LEFT	-	-130	565842.83N 0072226.06W	-
R15L	006	TF	PRM02	N	053° (049.5°)	LEFT	-	-130	570039.44N 0071815.78W	-
R15L	007	TF	OMOMI	Y	313° (309.5°)	-	3100	-	571121.21N 0074214.75W	HOLD

CHANGE (10/24): SPECIFICATION CHANGE.
AERO INFO DATE 15 JUL 24

Instrument Approach Procedure Coding Tables

BARRA RNP RWY 25 - Instrument Approach Procedure via DIMDO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25R	001	IF	DIMDO	N	-	-	3100	-	570944.30N 0071355.14W	IAF
R25R	002	TF	PR25I	N	179° (176.1°)	RIGHT	2100	-	570445.66N 0071317.52W	IF / 7.65NM
R25R	003	TF	PR25F	N	249° (246.1°)	-	1500	-	570330.29N 0071828.86W	FAF / 4.55NM
R25R	004	TF	RW25	Y	249° (246.0°)	RIGHT	-	-	570139.48N 0072605.17W	MAPt
R25R	005	DF	PRM03	N	-	RIGHT	-	-130	570327.02N 0072617.54W	-
R25R	006	TF	NOLNU	Y	077° (073.8°)	-	3100	-	570647.33N 0070455.05W	HOLD

BARRA RNP RWY 25 - Instrument Approach Procedure via NOLNU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25C	001	IF	NOLNU	N	-	-	3100	-	570647.33N 0070455.05W	IAF
R25C	002	TF	PR25I	N	249° (246.1°)	-	2100	-	570445.66N 0071317.52W	IF / 7.65NM
R25C	003	TF	PR25F	N	249° (246.1°)	-	1500	-	570330.29N 0071828.86W	FAF / 4.55NM
R25C	004	TF	RW25	Y	249° (246.0°)	RIGHT	-	-	570139.48N 0072605.17W	MAPt
R25C	005	DF	PRM03	N	-	RIGHT	-	-130	570327.02N 0072617.54W	-
R25C	006	TF	NOLNU	Y	077° (073.8°)	-	3100	-	570647.33N 0070455.05W	HOLD

BARRA RNP RWY 25 - Instrument Approach Procedure via RILGU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25L	001	IF	RILGU	N	-	-	2300	-	570110.22N 0070656.18W	IAF
R25L	002	TF	PR25I	N	319° (316.1°)	LEFT	2100	-	570445.66N 0071317.52W	IF / 7.65NM
R25L	003	TF	PR25F	N	249° (246.1°)	-	1500	-	570330.29N 0071828.86W	FAF / 4.55NM
R25L	004	TF	RW25	Y	249° (246.0°)	RIGHT	-	-	570139.48N 0072605.17W	MAPt
R25L	005	DF	PRM03	N	-	RIGHT	-	-130	570327.02N 0072617.54W	-
R25L	006	TF	NOLNU	Y	077° (073.8°)	-	3100	-	570647.33N 0070455.05W	HOLD

CHANGE (10/24): SPECIFICATION CHANGE.
AERO INFO DATE 15 JUL 24

EGAA — BELFAST ALDERGROVE

EGAA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGAA — BELFAST ALDERGROVE

EGAA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 543927N Long: 0061257W Mid Point of Runway 07/25
2	Direction and distance from city	11.5 NM NW of Belfast.
3	Elevation / Reference temperature / Mean Low Temperature	268 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	185 FT
5	Magnetic Variation / Annual Change	2.15°W (2022) / 0.22°E
6	AD Administration Address Telephone E-mail address	BELFAST INTERNATIONAL AIRPORT LTD. Belfast International Airport, Belfast BT29 4AB. 028-9448 4313 (Airport Duty Manager) 077-0320 3167 (Mobile) 079-2087 7721 (NATS ATC, Mon-Fri 0900-1700 (0800-1600)) bfsadm@bfs.aero (Airport Duty Manager) bfsatc@nats.co.uk (NATS ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	38X Aldergrove Flying Station – Use of the Military Apron is strictly PPR only and is to be coordinated through Aldergrove Air Ops, Tel: 07971-927704. Operating Hours: Mon-Fri 0800-1700 (0700-1600). Email: ALG-AirOps@mod.gov.uk.

EGAA AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24 Tel: 028-9448 4323
3	Health and sanitation	Port Health on call.
4	AIS Briefing Office	H24 (self briefing).
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	AVGAS 100LL: 0900-1700 (0800-1600). AVTUR JET A-1: H24 (North Air and Global Trek Aviation).
9	Handling	HAE, Swissport and Global Trek Aviation: H24. EAC: 0900-1700 (0800-1600). Woodgate Executive Air Charter (UK) Ltd: 0900-2000 (0800-1900); and by prior arrangement. Jet Assist: H24 by prior arrangement.
10	Security	H24
11	De-icing	As required.
12	Remarks	Fuelling: Woodgate Executive Air Charter H24 fuel callout, Tel: 028-9442 2478.

EGAA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	A range of cargo handling equipment is available up to B747-400 and AN124 aircraft. Full details may be established with the relevant ground handling agents noted at paragraph 7 of this section.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80
3	Fuelling facilities/capacity	
4	De-icing facilities	Available from: HAE and Swissport.
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Limited for light aircraft only.

7	Remarks	Designated handling agents are: Commercial Aircraft: HAE Tel: 028-9445 9449; Fax: 028-9445 9905. Swissport: Tel: 028-9448 4608; Fax: 028-9442 2010. General Aviation and Private Jet Aircraft: EAC: Tel: 028-9448 4938; Tel: 028-9442 2478 (call out); Fax: 028-9445 2649; 0900-1700. Jet Assist: Tel 028-9442 2646 (24 HR); Fax: +44 28-9442 2640. Email: ops@jetassist.co.uk VIP/Military/Ferry/Tech stops: Global Trek Aviation: Tel: 028-9445 4546, 07479-202260 (Mobile); Email: bfs@globaltrekaviation.com; Website: www.globaltrekaviation.com AVGAS 100LL purchased from Woodgate Air Charter can only be made using cash or credit card. Air BP carnet not accepted.

EGAA AD 2.5 PASSENGER FACILITIES

1	Hotels	On Airport.
2	Restaurants	Buffets.
3	Transportation	Buses, Taxis and car hire. Nearest railway station Antrim, 7 miles.
4	Medical facilities	Limited first aid.
5	Bank and Post Office	Bureau de Change.
6	Tourist Office	In Terminal.
7	Remarks	

EGAA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8 and 9 available on request. 24 hours prior notice required.
2	Rescue equipment	Air bags and inflation equipment for 15 and 26 tonnes lifting capacity. 2000 x 1000 mm Synthetic Roadway Panel. NLG Turnable Assembly 30 Tonne capacity, Sledge movement system. De-Bogging/Hauling Kit (50 tonne).
3	Capability for removal of disabled aircraft	50,000 kg. Contact 028-9448 4313 (Airport Duty Manager) H24. National airlines and/or the larger independent airlines should plan to fly in appropriate salvage equipment and should be part of the airline pooling arrangement or have other recovery procedures in place. Operators of smaller aircraft or GA aircraft will be required to use the assistance of Executive Air Charter (if they are unable to remove the aircraft themselves) and will be charged accordingly.
4	Remarks	

EGAA AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard. See AD 2.20, Paragraph 6, for Runway 17/35 winter sweeping priority.
3	Remarks	

EGAA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	EAST APRON Surface: Asphalt PCN 71/R/B/W/U ECHO APRON Surface: Concrete and asphalt GA APRON Surface: Concrete PCN 15 MAIN APRON Surface: Asphalt PCN 71/R/B/W/U WEST APRON Surface: Concrete PCN 71/R/B/W/U
2	Taxiway width, surface and strength	Taxiway A: 23 M Surface: Asphalt PCN 71/R/B/W/U Taxiway B: 23 M Surface: Concrete PCN 71/R/B/W/U Taxiway C: 23 M Surface: Asphalt PCN 71/R/B/W/U Taxiway D: 23 M Surface: Asphalt PCN 71/R/B/W/U Taxiway F: 15 M Surface: Asphalt PCN 71/R/B/W/U Taxiway L: 57 M Surface: Concrete and asphalt PCN 71/R/B/W/U
3	Altimeter checkpoint location and elevation	East Apron 241 FT Main Apron 232 FT West Apron 222 FT GA Apron 248 FT
4	VOR checkpoints	
5	INS checkpoints	See Parking/Docking Chart
6	Remarks	

EGAA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	No automated parking/docking systems installed. Marshalling service is provided at all stands, with follow-me vehicle in place for freight/mail aircraft parking. TWY/Stand guidance lines are compliant with ICAO Annex 14 recommendations Below information indicates max span. Length restrictions exist and will be managed by stand allocation through the Airport Operational Database. Stands 9 - 15 fitted with illuminated stand number indicator boards. Max aircraft size: ICAO Code C Stands 16,17: Max aircraft size - ICAO Code C Stand 16A: Max aircraft size - ICAO Code F Stand 18: Max aircraft size - ICAO Code C Stand 21: Max aircraft size - ICAO Code C+ (B757 capable) Stand 22: Max aircraft size - ICAO Code C Stand 23: Max aircraft size - ICAO Code E Stands 24,25A,25B,26,27,28,29,30: Max aircraft size - ICAO Code C 1x passenger boarding bridge serving Stands 22,23,24 Cargo Stands 1F,2F: Max aircraft size - ICAO Code D Cargo Stands 3F,4F,5F,6F: Max aircraft size ICAO Code C All stands require operators to have pushback capability with their handling agent. General Aviation aircraft may self park on the GAT Apron and/or Delta Apron. Delta Apron houses General Aviation and Private Charter movements. The varying types of aircraft in this area mean that dedicated markings are not available. BIA and Handling agents will cooperate to ensure safety is maintained during parking operations.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Runway designation, threshold, centre-line, edge lines and aiming point markings on Runway 07/25. Touchdown zone markings on Runway 07/25. Yellow lead-off lines from Runway 25 onto Taxiways B, D and J and from Runway 25 onto Runway 35 at the runways intersection. Yellow lead-off lines from Runway 07 onto Taxiways A and B. Runway Taxi Holding Position markings at the intersection of Runways 07/25 and 17/35, 150 M from the centre-lines of the cross runway. 17/35: Runway designation, threshold, centre-line, edge lines and aiming point markings on Runway 17/35. Touchdown zone markings on Runway 17. Yellow lead-off lines from Runway 17 onto Taxiways F, J and Echo Apron. Yellow lead-off lines from Runway 35 onto Taxiways C, F, J and Echo Apron. Runway Taxi Holding Position markings at the intersection of Runways 07/25 and 17/35, 150 M from the centre-lines of the cross runway. Runway light(s): Alternate green/yellow lead-off lights from Runway 25 onto Runway 35, along with Taxiways B, D and J. Alternate green/yellow lead-off lights from Runway 07 onto Taxiways A and B. Alternate green/yellow lead-off lights from Runway 35 onto Taxiway C. Taxiway marking aid(s): Yellow centre-line and holding position on all taxiways. Taxiway light(s): Green centre-line lighting on Taxiways A, B, C, D, J and L. Blue edge lights on B, F and L (south side). Runway guard lights at runway holding positions.

3	Stop bars and runway guard lights (if any)	Alpha Taxiway stop bars at A1, A2, A3; Bravo Taxiway one stop bar; Charlie Taxiway stop bars at C1, C2; Delta Taxiway stop bars at D1, D2; Foxtrot Taxiway one stop bar; Juliet Taxiway stop bars at J1, J2; Echo Apron one stop bar.
4	Other runway protection measures	
5	Remarks	Aircrew should note that the marshalling service is provided by BIA or their handling agents trained personnel. However, it still remains the responsibility of aircrew to satisfy themselves that the stand is safe for entry and parking. 3 illuminated wind direction indicators at 17, 25 and 35 thresholds.

EGAA AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAA2033) 07/TAKE-OFF	TREE	543958.83N 0061115.40W	292 FT	42 FT	No	
(EGAA1948) 07/TAKE-OFF	FFM	543950.12N 0061130.85W	274 FT	12 FT	No	
(EGAA1437) 35/TAKE-OFF	VOR DME	543940.27N 0061347.66W	225 FT	14 FT	No	
(EGAA1463) 35/TAKE-OFF	FENCE	543936.15N 0061342.08W	207 FT	7 FT	No	
(EGAA1249) 07/APPROACH	BUSH	543902.51N 0061411.03W	218 FT	17 FT	No	
(EGAA1179) 25/TAKE-OFF	BUSH	543900.56N 0061424.46W	215 FT	19 FT	No	
(EGAA1147) 25/TAKE-OFF	TREE	543858.82N 0061428.03W	224 FT	27 FT	No	
(EGAA1101) 07/APPROACH	TREE	543855.97N 0061433.55W	245 FT	52 FT	No	
(EGAA1641) 35/APPROACH 17/ TAKE-OFF	LLZ	543828.12N 0061308.32W	272 FT	10 FT	Yes Solid Red	
(EGAA1609) 35/APPROACH 17/ TAKE-OFF	CCTV	543823.89N 0061311.05W	277 FT	14 FT	No	
(EGAA1602) 35/APPROACH	TELEGRAPH POLE	543813.39N 0061313.82W	311 FT	49 FT	No	
(EGAA1785) 35/APPROACH	TREE	543809.35N 0061243.46W	350 FT	49 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAA2168)	MAST	544605.04N 0061026.78W	1038 FT	49 FT	Yes Solid Red	
(EGAA2248)	PYLON	544556.27N 0060741.28W	906 FT	85 FT	No	
(EGAA2209)	TREE	544040.06N 0060938.71W	413 FT	57 FT	No	
(EGAA2186)	TREE	544014.03N 0061008.80W	369 FT	83 FT	No	
(EGAA2267)	TREES	543957.09N 0060718.18W	493 FT	57 FT	No	
(EGAA2287)	TREES	543950.93N 0060643.53W	571 FT	66 FT	No	
(EGAA2382)	BUSH	543946.33N 0060159.59W	935 FT	22 FT	No	
(EGAA2163)	TREES	543905.59N 0061057.57W	454 FT	60 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAA1337)	HANGAR	543903.37N 0061400.72W	263 FT	55 FT	Yes Solid Red	
(EGAA1368)	HANGAR	543903.35N 0061358.74W	264 FT	55 FT	Yes Solid Red	
(EGAA1599)	HANGAR	543854.01N 0061312.79W	295 FT	43 FT	Yes Solid Red	
(EGAA2406)	GROUND LEVEL	543853.30N 0060029.57W	1135 FT		No	
(EGAA1522)	HANGAR	543846.96N 0061330.53W	282 FT	41 FT	Yes Solid Red	
(EGAA2409)	WIND	543818.53N 0060026.27W	1203 FT	148 FT	Yes Solid Red	
(EGAA1870)	TREE	543816.90N 0061213.51W	433 FT	72 FT	No	
(EGAA2317)	PYLON	543815.93N 0060508.37W	726 FT	189 FT	No	
(EGAA2355)	WIND TURBINE	543753.96N 0060349.55W	827 FT	105 FT	No	
(EGAA2386)	WIND	543744.34N 0060154.32W	1103 FT	164 FT	Yes Solid Red	
(EGAA2277)	WIND TURBINE	543724.53N 0060702.43W	663 FT	236 FT	No	
(EGAA2377)	WIND TURBINE	543701.68N 0060230.73W	1203 FT	154 FT	No	
(EGAA2176)	TREES	543649.91N 0061037.76W	419 FT	58 FT	No	
(EGAA2331)	TREE	543642.33N 0060446.55W	837 FT	59 FT	No	
(EGAA2238)	TREES	543635.23N 0060843.06W	627 FT	228 FT	No	
(EGAA2359)	TELEGRAPH POLE	543605.37N 0060343.51W	1039 FT	23 FT	No	
(EGAA2299)	GROUND LEVEL	543558.08N 0060617.62W	860 FT		No	
(EGAA2262)	MAST	543555.47N 0060738.86W	783 FT	192 FT	No	
(EGAA2379)	WIND	543546.08N 0060226.23W	1093 FT	164 FT	Yes Solid Red	
(EGAA2354)	TREE	543518.42N 0060403.05W	1003 FT	39 FT	No	
(EGAA2196)	TREES	543457.33N 0061012.60W	574 FT	58 FT	No	
(EGAA2341)	WIND TURBINE	543453.00N 0060430.61W	955 FT	91 FT	No	
(EGAA2292)	PYLON	543452.32N 0060648.68W	783 FT	164 FT	No	
(EGAA2328)	WIND	543334.53N 0060458.70W	875 FT	164 FT	Yes Solid Red	

EGAA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.

6	Flight documentation Language(s) used	Charts plain language text. TAFs and METARs English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	BELFAST ALDERGROVE
10	Additional information (limitation of service, etc.)	Verified AUTO METAR observations are available on ATIS (126.130 MHz) and by telephone on 028-9448 4294.

EGAA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
07	065.07°	2780 x 45 M	RWY surface: Asphalt, Grooved PCN 71/R/B/X/T	543908.12N 0061406.87W 184.5 FT	THR 205.8 FT TDZ 208.0 FT	RWY 07 1:148 Up RWY 25 -1:148 Down
25	245.10°	2780 x 45 M	RWY surface: Asphalt, Grooved PCN 71/R/B/X/T	543945.99N 0061146.24W 184.5 FT	THR 267.5 FT TDZ 257.5 FT	RWY 07 1:148 Up RWY 25 -1:148 Down
17	161.95°	1891 x 45 M	RWY surface: Asphalt, Porous friction coat PCN 71/F/C/W/U	543928.52N 0061343.04W 184.5 FT	THR 206.1 FT TDZ 215.6 FT	RWY 17 -1:114 Down RWY 35 1:113 Up
35	341.96°	1891 x 45 M	RWY surface: Asphalt, Porous friction coat PCN 71/F/C/W/U	543833.19N 0061311.96W 184.6 FT	THR 257.8 FT TDZ 257.8 FT	RWY 17 -1:114 Down RWY 35 1:113 Up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	293 x 150 M	2900 x 280 M				RWY 07 Runway 07 is a non-precision approach runway. Aircraft using Runway 07 are required to back track from the entry point at Delta for full take-off run. The turning area is 70 M wide at 07 threshold.
	361 x 150 M	2900 x 280 M				RWY 25
	98 x 150 M					RWY 17 Aircraft landing on Runway 17 will be required to back track the runway. Turning area is 90 x 85 M to the south of Runway 35 displaced threshold. Strip Dimensions: 1911 x 280 M
	219 x 150 M					RWY 35 Runway 35 is a non-precision approach runway. The downslope gradient over the first 400 M of LDA is: RWY 35 - 0.76%. Strip Dimensions: 2011 x 280 M

EGAA AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	2780 M	3073 M	2780 M	2780 M	
25	2779 M	3141 M	2779 M	2780 M	
07	2654 M	2947 M	2654 M		Take-off from intersection of Taxiway Delta.
07	2197 M	2490 M	2197 M		Take-off from intersection of Runway 35.
07	1204 M	1497 M	1204 M		Take-off from intersection of Taxiway Bravo.
25	1607 M	1968 M	1607 M		Take-off from intersection of Taxiway Bravo.
17	1791 M	1889 M	1791 M	1791 M	
35	1891 M	2111 M	1891 M	1799 M	
17	1732 M	1830 M	1732 M		Take-off from intersection of Taxiway Charlie.

EGAA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07	Centre-line with one crossbar. 439 M Light intensity high	Green Light intensity high With HI green wingbars	PAPI Left/3° 74 FT 425 M		Colour coded 15 M spacing LED Light intensity high	HI elev bi-directional with LI omni-directional component. Turning areas are marked with blue edge lights.	Runway end: Red Wingbars: Green		
25	Coded centre-line with five crossbars. Supplementary lighting inner 288 M. 882 M Light intensity high	Green Light intensity high With HI green wingbars	PAPI Left/3° 57 FT 430 M	900 M LED	Colour coded 15 M spacing LED Light intensity high	HI elev bi-directional with LI omni-directional component.	Runway end: Red Wingbars: Green		
17	Coded centre-line with five crossbars. 910 M Light intensity high	Green Light intensity high With HI green wingbars	PAPI Left/3° 55 FT 293 M			HI elev bi-directional with LI omni-directional component 60 M spacing. White, with last 10 each side Yellow caution zone.	Runway end: Red Wingbars: Green		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
35	Centre-line with one crossbar. Last approach light 92 M from displaced threshold. 522 M Light intensity high	Green Light intensity high With HI green wingbars	PAPI Left/3° 47 FT 357 M from displaced threshold			HI elev bi-directional with LI omni-directional component 60 M spacing. White, with last 10 each side Yellow caution zone. One Red each side before displaced threshold. Turning areas are marked with blue edge lights.	Runway end: Red Wingbars: Green		

EGAA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 543918.14N 0061345.00W Lit solid red; 543936.97N 0061203.43W Lit solid red; 543909.66N 0061323.32W Not lit.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes. Using local sub-station / 1 second.
5	Remarks	Obstacle lighting.

EGAA AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGAA AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BELFAST CTR A circle, 9 NM radius, centred at 543927N 0061257W	Upper limit: FL105 Lower limit: SFC	D	ALDERGROVE APPROACH English	6000 FT		To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BELFAST ALDERGROVE ATZ A circle, 2.5 NM radius, centred at 543927N 0061257W on longest notified runway (07/25)	Upper limit: 2000 FT AGL Lower limit: SFC	D	ALDERGROVE APPROACH English	6000 FT		

EGAA AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	ALDERGROVE APPROACH	133.125 DOC 60 NM/ 24,500 FT.			H24	ATZ hours coincident with Approach hours.
TWR	ALDERGROVE GROUND	121.755 DOC 2 NM/GND			As directed by ATC	When notified by ATIS, Radar and Tower will be provided as a combined function on frequency 133.125 MHz, Callsign 'Aldergrove'.
	ALDERGROVE TOWER	118.300 DOC 25 NM/4,000 FT.			H24	
RADAR	ALDERGROVE DIRECTOR	120.905 DOC 40 NM/ 19,500 FT.			0700-2200 (0600-2100)	
ATIS	ALDERGROVE INFORMATION	126.130 DOC 60 NM/ 20,000 FT.			H24	
OTHER	BELFAST FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	ALDERGROVE EMERGENCY	121.500 Emergency frequency.			O/R	

EGAA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.18°W (2027)	IFT	110.900 MHz	HO	543827.99N 0061309.03W		(RWY 17)
ILS/GP	IFT	330.800 MHz	HO	543918.80N 0061344.61W		3° ILS Ref Datum Hgt 50 FT. Aircraft may experience glidepath fluctuations outside of 8 NM.
ILS/LOC III 1.19°W (2027)	IAG	109.900 MHz	HO	543903.17N 0061425.19W		(RWY 25)
ILS/GP	IAG	333.800 MHz	HO	543937.65N 0061201.41W		3° ILS Ref Datum Hgt 52 FT. Caution due to small fluctuations apparent between 8 NM and 5 NM.
VOR/DME 1.19°W (2027) 1.2°W (2024)	BEL	119X 117.200 MHz	H24 Hours of operation for aerodrome purposes: HO	543940.12N 0061347.66W	221 FT	VOR/DME DOC: 40 NM/50,000 FT (200 NM/50,000 FT in Sector R226-346). There may be VOR bearing fluctuations in Sectors R060-110 and R140-180.
DME	IAG	36X 109.900 MHz	HO	543937.65N 0061201.41W	278 FT	(RWY 25) DME freq paired with ILS I-AG. Zero range is indicated at THR of Runway 25. For use with ILS approaches only.
DME	IFT	46X 110.900 MHz	HO	543918.82N 0061344.60W	228 FT	(RWY 17) DME freq paired with ILS I-FT. Zero range is indicated at THR of Runway 17. For use with ILS approaches only.

EGAA AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Belfast CTR.
b) Use of this airport by aircraft not able to communicate with ATC by radio subject to prior permission.
c) Aircraft using Belfast International Airport are to carry third party insurance cover of not less than £3,000,000.
d) All commercial air transport operators should submit details of proposed flights and schedules to Airport Co-ordination Ltd, who act as agents on behalf of Belfast International Airport for this purpose. Tel: 0161-493 1850, Fax: 0161-493 1853, e-mail: LONACXH@acl-uk.org.
e) Belfast International Airport will waive charges for GA pilots in the case of genuine emergency or precautionary diversion landings. This concession applies to GA aircraft under 3 tonnes not flying for hire or reward, not having planned or intended Belfast International Airport as their destination or alternate.
f) To comply with EU Regulations, PRM requirements should be pre-notified 48 HR in advance to SITA BFSOCCR or OCS.PRM@bfs.aero or 028-9448 4957.
g) Due to limited aircraft stand availability, aircraft wishing to divert to Belfast International Airport may not be accepted, except in an emergency.

2 GROUND MOVEMENT

a) Aircraft engine running area is available by arrangement with the airport authority, however, engine runs are not permitted after 2300 (2200). Contact the Airport Duty Manager for details.
b) Apron Layout.

   i. The arrangement of the apron stands showing stand numbers, is as shown on the plan at page AD 2-EGAA-2-2.
   ii. Executive/Corporate/GA domestic and international aircraft over 2000 KG AUW will be allocated a stand on arrival.
   iii. Aircraft who are allocated a stand should not enter the stand unless under guidance from ground staff.
   iv. Aircraft below 2000 KG AUW will park, normally self manoeuvring, on the GA Apron or as directed.
   v. Aircraft pushback procedures in progress on main Apron. Pilots will be instructed by ATC to push to a nominated position. Pilots are to pass the nominated position to the push back Team. Nominated positions are X-ray, Yankee, Zulu, Lima 1, Lima 2 Lima 3, Lima 4, Lima 5, Lima 6 and Lima 7.
   vi. Aircraft taxiing from position Zulu should use minimum power until established on Taxiway Lima.
   vii. When requesting start-up or push-back pilots should give the full call sign, type and stand number. Aircraft must be ready in all respects to start and if necessary push-back before calling on the appropriate frequency. Pilots should only request push-back when they are fully ready to do so.
   viii. When requesting push-back clearance, pilots are to inform ATC if headset communication with ground crew is not established. Push back clearance must not be requested until the ground crew has confirmed to the flight deck that the aircraft is closed up and the tug is manned and fully ready to move.

c) Departing aircraft should report ready for departure.
d) International GA Flights including flights originating in the Republic of Ireland

   i. Arrivals.

      Flights will be parked for examination on the GA Apron Customs Examination Station as directed.

   ii. The law requires that Pilots must present their aircraft and contents for Police and Border Force inspection on arrival.

e) Due to apron pushback procedures, prior permission is required from ATC for aircraft to vacate Runway 07/25 at Taxiway Bravo.
f) Aircraft of Boeing 737/Airbus 319 size or greater are not permitted to carry out 180° turns after landing on Runway 17. Aircraft should continue to the 35 turning circle.
g) IFR Procedural Standard Arrival Routing Runway 25

   i. All IFR arrivals on Runway 25 which are planned to park at the main terminal should, after landing, and without instruction, vacate right onto Runway 35, right onto Taxiway Charlie and unless further ATC taxi clearance has been issued hold at holding point C2. ATC shall issue further progressive taxi instructions once the aircraft has vacated Runway 25.

   Note: *This does not prevent either ATC from issuing alternate tactical instructions as required or the pilot vacating tactically as circumstances dictate.*

h) Two steel plates cover bad ground on Taxiway Bravo centreline. One 18 M south of Bravo Hold and one 18 M north of Bravo Hold.

3 CAT II/III OPERATIONS

a) Runway 25, subject to serviceability of the required facilities is suitable for Category II/III Operations by Operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II/III operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed when these procedures are in operation by Arrival and Departure ATIS or by RTF. Pilots can expect a flow rate of 10/60 for arrivals and 10/60 for departures
c) Departing Aircraft - Runway 25

   i. ATC will request departing aircraft to hold at the Category II/III Hold on Alpha.
   ii. If Taxiway Alpha is out of service departing aircraft will be required to backtrack Runway 25 from Taxiway Bravo and execute a 180° turn on 25 Threshold.

d) Arriving Aircraft

   i. Landing clearance or go around instructions will be given no later than 2 NM from touchdown.
   ii. Runway 25, where it intersects with Runway 35, is fitted with CAT II/III ground lighting and arriving aircraft may be instructed to vacate there.
   iii. Backtracking on Runway 25 is not normally permitted. However if Taxiways Charlie or Delta are out of service aircraft will be instructed by ATC to use Category II/III ground lighting at Bravo to vacate Runway 25. Arriving aircraft will be under instruction from ATC:

      1. Continue to the end of Runway 25;
      2. Execute a 180° turn;
      3. Backtrack the runway and vacate on to Taxiway Bravo;
      4. Report established on Taxiway Bravo and constant taxiway green lights in sight.

e) Runway 25 is suitable for Lower than Standard Category I operations subject to the ILS radiating at CAT III and LVPs being declared in force by ATC, by Operators whose minima have been accepted by the Civil Aviation Authority.

4 WARNINGS

a) Except for light signals, ground signals are not displayed.
b) Bird scaring at times may only be carried out on the runway in use. In these circumstances, ATC will inform pilots of the bird scaring action notified to them by the Airport Authority.
c) Model aircraft flying takes place at Nutts Corner, a disused aerodrome situated 3 NM Southeast of Aldergrove. Flying takes place on a daily basis during daylight hours up to a maximum of 400 FT AGL.
d) Security fence east of Taxiway Foxtrot infringes Runways 17 and 35 strip by 3.8 M and 4.7 M.
e) Hazardous accumulations of whooper swans, and small gulls at Langford Lodge disused aerodrome 3.5 KM southwest of the aerodrome may pose a risk to aircraft landing and taking off on Runway 07.
f) Apron stands 9 to 15 slopes are compliant along their east west axis, but deviates from CAP 168 criteria along the north south axis in that the slope from south to north varies from 1 in 93 to 1 in 55.
g) Pilots are warned that unauthorised ground based laser lights may be directed at their aircraft when arriving or departing at EGAA or when over flying the City of Belfast. All incidents should be reported immediately via ATC to the Police.
h) High ground rising to 536.5 M at edge of outer horizontal surface at a distance of 14,650 M from the runway to the south and east.
i) High ground rising to 334.4 M within the outer horizontal surface at a distance of 12,476 M from the runway to the north east.

5 HELICOPTER OPERATIONS

a) Helicopters frequently operate at low level south of Runway 25, but will remain at least 250 M from that runway until further cleared by ATC.
b) Prior permission required by civil helicopters wishing to land at Belfast International Airport due to parking spaces not available. Contact the Airport Duty Manager 0770-3203167.

6 USE OF RUNWAYS

a) In Winter conditions runway anti-icing and snow clearance operations will take priority over all other operations at the discretion of the Airport Authority. ATC will inform pilots of any expected delays. Runway 17/35 and associated taxiways will not normally be de-iced.
b) During winter conditions, Runway Condition Reports (RCRs) will be in operation when Runways 07/25 and 17/35 are contaminated. These condition reports will be in accordance with the ICAO Global Reporting Format (GRF) and will be disseminated via Snowtam and ATIS only.

7 TRAINING

a) Contact Airport Operations Control Centre on Tel: 028-9448 4401 or E-mail: control.centre@bfs.aero.

EGAA AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) Pilots must comply with the procedure detailed below and in particular with reference to speed control.
b) The Continuous Descent Arrival procedure provides pilots with the ATC assistance necessary for them to achieve a continuous descent during intermediate and final approach, at speeds which require minimum use of flap. The procedure is designed to minimise noise disturbance and fuel consumption during the approach phase.

2 ARRIVALS

a) Unless there are valid reasons, the Continuous Descent Arrival procedure is to be employed for all approaches by IFR aircraft to all runways between 2200-0700 (2100-0600).
b) Headings and Flight Levels/Altitudes to leave the holding facility will be passed by ATC. When holding is not necessary, radar vectors may be given prior to the aircraft reaching the holding pattern and descent clearance will include an estimate of track distance to touchdown.
c) Further distance information will be given between initial descent clearance and intercept headings to the ILS. On reciept of descent clearance the pilot will descend at the rate he judges will be best suited to the achievement of continuous descent, the object being to join the glidepath at the appropriate height for the distance without recourse to level flight.
d) Pilots should typically expect the following speed restrictions to be enforced:

   i. 220 KT from the holding facility (or if holding is not required, 220 KT by 20 NM from touchdown) during intermediate approach phase;
   ii. 180 KT on base leg/closing heading to the ILS;
   iii. Between 180 KT and 160 KT when first established on the ILS, and thereafter 160 KT to 4 DME.

e) These speeds are applied for ATC separation purposes and are mandatory. In the event of a new (non-speed related) ATC clearance being issued (eg: an instruction to descend on ILS), pilots are not absolved from a requirement to maintain a previously allocated speed. All speed restrictions are to be flown as accurately as possible. Aircraft unable to conform to these speeds should inform ATC and state what speeds will be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as feasible within their own operational constraints, advising ATC if circumstances necessitate a change of speed for aircraft performance reasons.
f) The term ‘No ATC Speed Restriction’ does not absolve a pilot from flying in accordance with the speeds stated in paragraph d.
g) When the Continuous Descent Arrival procedure is in force and an aircraft is being vectored for a non-precision approach, the pilot will decide to which point he will fly the Continuous Descent Arrival procedure in order to comply with Company Standard Operating Procedures.

3 DEPARTURES

a) During the hours of 2200-0700 (2100-0600), all departures with a MTOW greater than 5700 KG, will climb on the runway track to 2000 FT ALT before commencing any turn, thereafter as per ATC clearance.

EGAA AD 2.22 FLIGHT PROCEDURES

1 ALTIMETER SETTING

a) Pilots flying beneath Belfast TMA below the Transition Altitude (6000 FT should use the QNH of an aerodrome situated within the lateral limits of the TMA; except that the aerodrome QFE may be used when flying within the circuit.

2 PROCEDURES FOR INBOUND AIRCRAFT

a) **Warning**

The attention of pilots is drawn to the existence of Langford Lodge aerodrome. This unlicensed aerodrome, situated 3 NM southwest of Belfast Aldergrove, is provided with crossed Runways 08/26 and 03/21. Pilots making approaches to Belfast Aldergrove, when Runway 07 is in use, should exercise due caution to ensure they have identified the correct aerodrome. The 07 approach and runway lights will be selected 'ON' whenever 07 is in use regardless of weather conditions.

b) **Clearance to enter Belfast TMA and CTR.**

   i. Aircraft flying on the Airways System will be cleared into the TMA/CTR without having to request a specific entry clearance.
   ii. Aircraft wishing to enter the TMA or CTR from the open FIR, whether IFR or VFR, must obtain clearance from Aldergrove Approach Control.

c) **Standard Routes**

   i. The standard initial routes for inbound aircraft, which are shown in the table below, may be varied at the discretion of ATC (eg for traffic reasons or to allow traffic to be sequenced by radar).

Approach from	Via	Route
NE	P600	BLACA - BELZU
E	FIR	BLACA/TMA Boundary - BELZU
SE	L10 (RNAV 5 FL 75 and above)	IOM - NELBO - BELZU
	L10 (Below FL 75)	IOM - RINGA - BELZU
	UP6/L46 (RNAV 5)	REMSI - MASOP - NELBO - BELZU
	M146 (RNAV 1 Below FL 255)	ERDUV - LUSOD - PEPEG - ROBOP - IPSET - BELZU
	M147 (RNAV 1 FL 255 and above)	REMSI - UVPOK - NOPKI - MATUT - ROBOP - IPSET - BELZU
S	N34	NEVRI - ABSUN - BELZU
SW, W, NW and N	FIR	TMA Boundary - direct to BELZU

Note: *See also UK Standard Route Document. Available online from NATS/AIS website: http://www.nats.aero/ais.*

d) **Approach Procedures – With Radar Control**

i. When inbound traffic is being sequenced by Radar, the Approach Procedure will be flown under directions from the Approach Radar Controller and will consist of that part of the approach between the Terminal Holding Fix and the Final Approach Path. When holding procedures are not in use, radar sequencing may commence before the Terminal Holding Fix.
ii. Pilots should plan their flight profile in such a manner as to be able to achieve the Minimum Holding Level at the appropriate holding point if so required.
iii. When an aircraft is under Approach Radar Control, changes of heading or Flight Level/Altitude will be made only on instructions from the Radar Controller, except in the case of radio communication failure in the aircraft or at the Radar Unit.
iv. Headings and Flight Levels/Altitudes at which to leave the holding areas will be passed by ATC. Radar vectors will be given and descent clearance will include an estimate of track distance to touchdown. Further distance information will be given between the initial descent clearance and intercept heading to the ILS.
v. Speed Control may be applied on a tactical basis to the extent determined necessary by the Radar Controller. Aircraft unable to conform to the speeds specified by the Radar Controller should inform him immediately and state what speeds will be used. In the interests of accurate spacing pilots are requested to comply with speed adjustments as promptly as is feasible within their own operational constraints, and should advise ATC if circumstances necessitate a change of speed for aircraft performance reasons.
vi. In the event of radar failure, new instructions will be issued to each aircraft under radar control and the procedures as defined for approach without radar control will be put into effect.

←

e) **Approach Procedures - Without Radar Control**

i. When inbound traffic is not being sequenced by Radar, aircraft will be cleared from the Terminal Holding Facility (VOR BEL) to carry out an Instrument Approach Procedure appropriate to the landing direction.

f) **Holding**

i. The primary holding pattern will be a 1-minute race-track pattern based on VOR BEL as detailed on the Instrument Approach charts.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) The standard routes for outbound aircraft are detailed in the following table. Routes may be varied at ATC discretion according to the prevailing traffic conditions.

Departing to	Via	Route
SE	L10, Q39	BEL VOR RDL 154° - LISBO - RINGA
	L15, L603, Q38	BEL VOR RDL 154° - LISBO - PEPOD
EGNS	L10	DCT - SLYDA - L10 - IOM - DCT
S	P620	BEL VOR RDL 154° - LISBO
N	P600	BEL VOR RDL 075° - BLACA

Note: *See also UK Standard Route Document. Available online from NATS/AIS website: http://www.nats.aero/ais.*

b) Aircraft must contact ATC no earlier than 20 minutes prior to EOBT to obtain airways clearance including transponder code. As there are no promulgated SIDs for Belfast Aldergrove, ATC will issue specific after departure instructions (typically a RADAR heading or to a designated waypoint), prior to issuing take-off clearance. Pilots must not depart until these instructions have been given and acknowledged.
c) **Warning: Pilots are reminded of the presence of high ground to the east, northeast and southeast of Belfast Aldergrove. It is the pilot's responsibility to maintain adequate terrain clearance.**
d) For ATC purposes, outbound aircraft will normally be required to cross LISBO at or above 4000 FT ALT. Pilots who cannot comply with the necessary climb profile must inform ATC in good time (ie before departure) so that an alternative routing can be coordinated.
e) North Atlantic Jet Departures.

i. Due to the proximity of the Shanwick Oceanic boundary to Belfast Aldergrove, pilots must consider timescales for submitting an 'RCL'. Refer to ENR 2.2, paragraph 3.8.2 for details.

f) Belfast Aldergrove departures via IOM – speed profile:

i. Traffic departing Belfast Aldergrove via L15/Q39 with a requested level of FL 290 or above is required to cross SOSIM/INKOB at FL 290 or above. To ensure that these aircraft can achieve the required level by SOSIM/INKOB speed restrictions are to be observed.
ii. All Belfast Aldergrove departures to the southeast with a requested flight level of FL 290 or above, are to fly in accordance with the following maximum speeds:

1. Jet Traffic with a MTOW greater than 35,000 KG Max 250 KT IAS until FL 100, then Max 290 KT IAS until FL 250;
2. Jet Traffic with a MTOW less than 35,000 KG and all non-jet traffic; Max 250 KT IAS until above FL 250.

iii. Aircraft unable to reach FL 290 by SOSIM/INKOB must advise Belfast Aldergrove prior to push-back, giving the anticipated flight level at SOSIM/INKOB. Specific climb instructions will be issued by Scottish Control.

4 VISUAL REFERENCE POINTS (VRP)

a) To facilitate the integration of VFR flights within the Belfast Airspace, pilots may be required to join/leave the airspace via specified VRPs.
b) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

5 VFR HELICOPTER OPERATIONS WITHIN EGAA CTR

a) **Flight Details**

i. Prior to lifting, the pilot shall book out with Aldergrove ATC by telephone/fax at least ten minutes prior to departure giving call sign and details of flight including ETD. If the ETD varies by ten minutes or more, whether booking out or subject to a full flight plan, then Aldergrove ATC must be informed of the revised ETD.

Note: *The act of booking out does NOT constitute a zone clearance. Clearance must be obtained via RTF from Aldergrove ATC.*

ii. If a flight leaves UK airspace, eg routing to Dublin, then a full flight plan must be filed with Aldergrove ATC at least sixty minutes prior to departure.

b) **Operation - Outbound**

i. The pilot must:

1. Lift into the hover to a height of not greater than 200 FT AGL, squawking 7000 and obtain zone clearance. Aldergrove ATC will pass any appropriate traffic information.
2. Only when a clearance has been received, can the flight set course subject to any restrictions that Aldergrove ATC may impose.

c) **Operation - Inbound**

i. Contact should be made, where possible, with Aldergrove Approach at least ten minutes flying time before the Belfast TMA boundary (if flying above the TMA base altitude) or the CTR boundary (if flying below the TMA base altitude) with a request for clearance to enter Controlled Airspace.
ii. The pilot shall report when descending into the private site. It should be noted that after this report has been made, no further action will be initiated by ATC, eg incident/accident, unless information to the contrary is received. If no acknowledgement is received from Aldergrove Approach, then the pilot must telephone Aldergrove ATC as soon as practical after landing.

Note: *An inbound clearance does not absolve the pilot from the need to contact appropriate adjacent ATSUs for transit clearance.*

6 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside, Belfast Aldergrove controlled airspace within the area defined below and maintaining a listening watch only on Aldergrove Approach frequency, 133.125 MHz, are encouraged to select SSR code 7045:

545656N 0055417W - 545724N 0061134W -
thence anti-clockwise by the arc of a circle radius 18 NM centred on 543927N 0061257W to
542135N 0061619W - 543233N 0060302W -
thence anti-clockwise by the arc of a circle radius 9 NM centred on 543927N 0061257W to
543833N 0055732W - 545656N 0055417W.

b) Selection of 7045 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the controlled airspace at all times.
c) Whilst squawking 7045 pilots should be aware that Aldergrove Approach may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 7045 shall be deselected.

EGAA AD 2.23 ADDITIONAL INFORMATION

a) Not applicable.

EGAA AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGAA-2-1
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO
AD 2.EGAA-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGAA-5-1
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 07 - ICAO
AD 2.EGAA-8-1
INSTRUMENT APPROACH CHART RNP RWY 07 - ICAO
AD 2.EGAA-8-2
INSTRUMENT APPROACH CHART VOR/DME RWY 07 - ICAO
AD 2.EGAA-8-3
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 17 - ICAO
AD 2.EGAA-8-4
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 17 - ICAO
AD 2.EGAA-8-5
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 17 - ICAO
AD 2.EGAA-8-6
INSTRUMENT APPROACH CHART VOR/DME RWY 17 - ICAO
AD 2.EGAA-8-7
INSTRUMENT APPROACH CHART ILS/DME RWY 25 - ICAO
AD 2.EGAA-8-8
INSTRUMENT APPROACH CHART LOC/DME RWY 25 - ICAO
AD 2.EGAA-8-9
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 25 - ICAO
AD 2.EGAA-8-10
INSTRUMENT APPROACH CHART VOR/DME RWY 25 - ICAO
AD 2.EGAA-8-11
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 35 - ICAO
AD 2.EGAA-8-12
INSTRUMENT APPROACH CHART VOR/DME RWY 35 - ICAO
AD 2.EGAA-8-13
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 07
AD 2.EGAA-8-14

EGAA AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 543927N 0061257W

AD ELEV 268FT

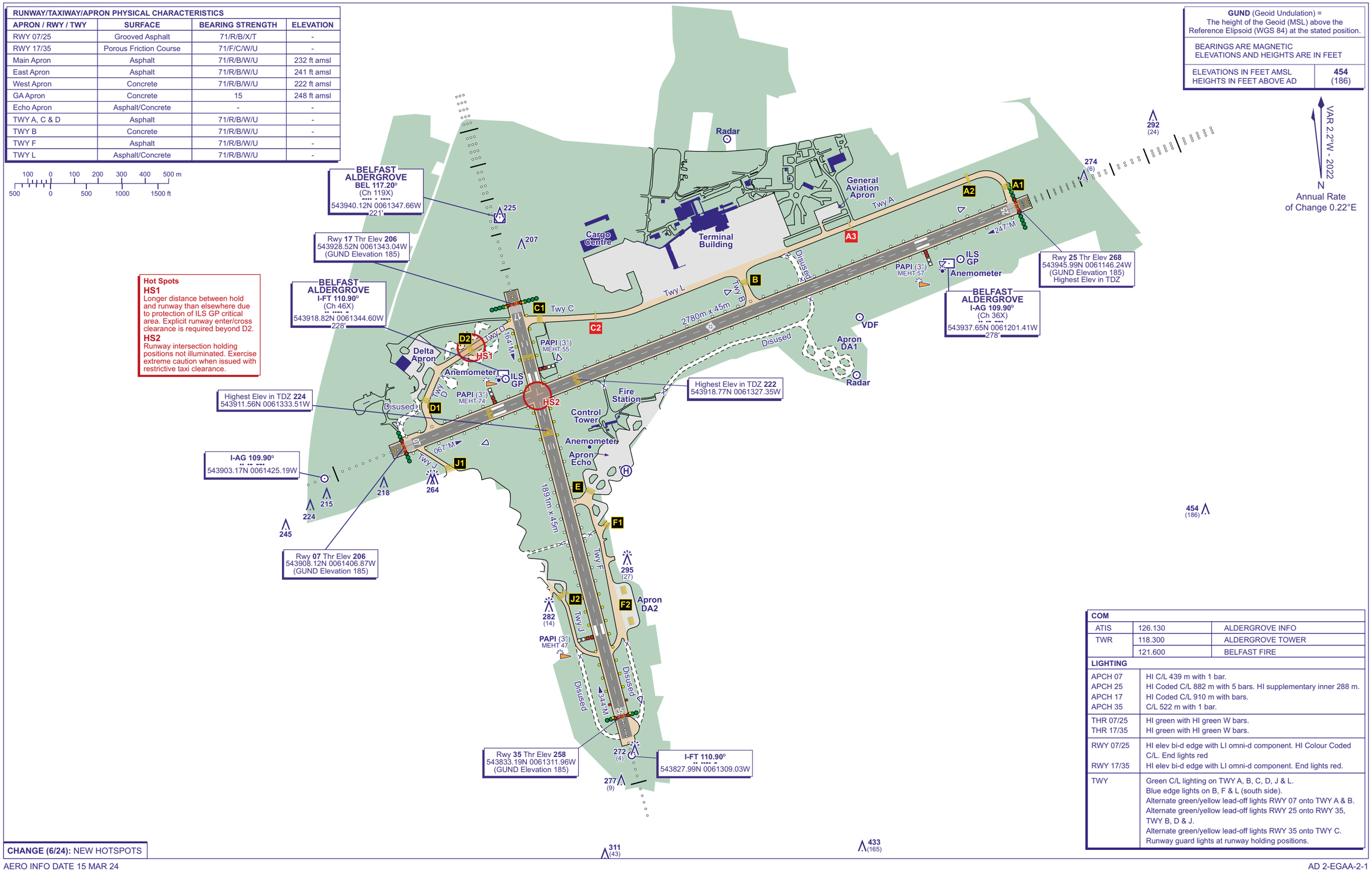
BELFAST ALDERGROVE
EGAA

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 07/25	Grooved Asphalt	71/R/B/X/T	-
RWY 17/35	Porous Friction Course	71/F/C/W/U	-
Main Apron	Asphalt	71/R/B/W/U	232 ft amsl
East Apron	Asphalt	71/R/B/W/U	241 ft amsl
West Apron	Concrete	71/R/B/W/U	222 ft amsl
GA Apron	Concrete	15	248 ft amsl
Echo Apron	Asphalt/Concrete	-	-
TWY A, C & D	Asphalt	71/R/B/W/U	-
TWY B	Concrete	71/R/B/W/U	-
TWY F	Asphalt	71/R/B/W/U	-
TWY L	Asphalt/Concrete	71/R/B/W/U	-

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	454 (186)



COM		
ATIS	126.130	ALDERGROVE INFO
TWR	118.300	ALDERGROVE TOWER
	121.600	BELFAST FIRE

LIGHTING	
APCH 07 APCH 25 APCH 17 APCH 35	HI C/L 439 m with 1 bar. HI Coded C/L 882 m with 5 bars. HI supplementary inner 288 m. HI Coded C/L 910 m with bars. C/L 522 m with 1 bar.
THR 07/25 THR 17/35	HI green with HI green W bars. HI green with HI green W bars.
RWY 07/25 RWY 17/35	HI elev bi-d edge with LI omni-d component. HI Colour Coded C/L. End lights red HI elev bi-d edge with LI omni-d component. End lights red.
TWY	Green C/L lighting on TWY A, B, C, D, J & L. Blue edge lights on B, F & L (south side). Alternate green/yellow lead-off lights RWY 07 onto TWY A & B. Alternate green/yellow lead-off lights RWY 25 onto RWY 35, TWY B, D & J. Alternate green/yellow lead-off lights RWY 35 onto TWY C. Runway guard lights at runway holding positions.

CHANGE (6/24): NEW HOTSPOTS

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

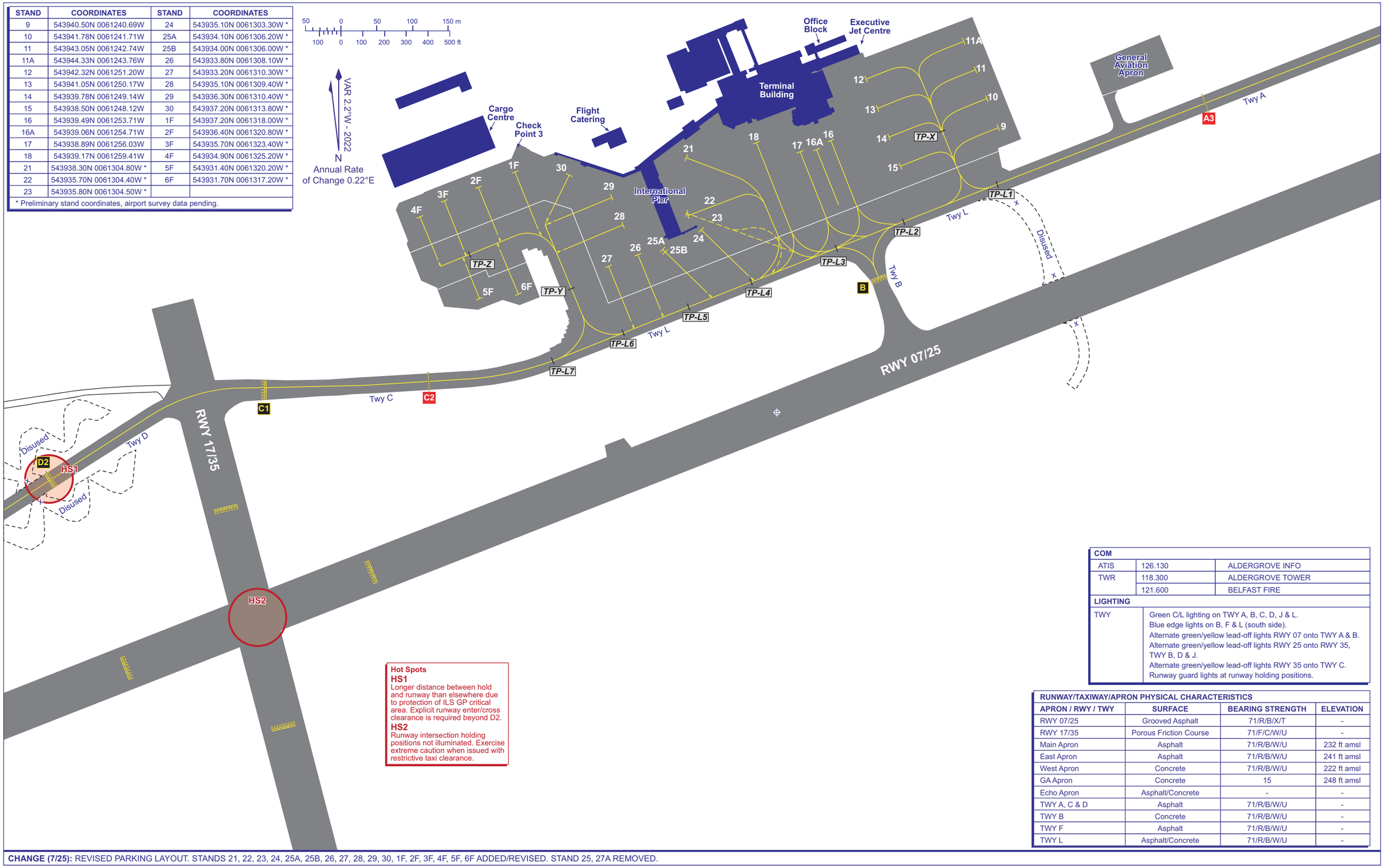
ARP 543927N 0061257W

AD ELEV 268FT

BELFAST ALDERGROVE
EGAA

STAND	COORDINATES	STAND	COORDINATES
9	543940.50N 0061240.69W	24	543935.10N 0061303.30W *
10	543941.78N 0061241.71W	25A	543934.10N 0061306.20W *
11	543943.05N 0061242.74W	25B	543934.00N 0061306.00W *
11A	543944.33N 0061243.76W	26	543933.80N 0061308.10W *
12	543942.32N 0061251.20W	27	543933.20N 0061310.30W *
13	543941.05N 0061250.17W	28	543935.10N 0061309.40W *
14	543939.78N 0061249.14W	29	543936.30N 0061310.40W *
15	543938.50N 0061248.12W	30	543937.20N 0061313.80W *
16	543939.49N 0061253.71W	1F	543937.20N 0061318.00W *
16A	543939.06N 0061254.71W	2F	543936.40N 0061320.80W *
17	543938.89N 0061256.03W	3F	543935.70N 0061323.40W *
18	543939.17N 0061259.41W	4F	543934.90N 0061325.20W *
21	543938.30N 0061304.80W *	5F	543931.40N 0061320.20W *
22	543935.70N 0061304.40W *	6F	543931.70N 0061317.20W *
23	543935.80N 0061304.50W *		

* Preliminary stand coordinates, airport survey data pending.



Hot Spots

HS1
Longer distance between hold and runway than elsewhere due to protection of ILS GP critical area. Explicit runway enter/cross clearance is required beyond D2.

HS2
Runway intersection holding positions not illuminated. Exercise extreme caution when issued with restrictive taxi clearance.

COM		
ATIS	126.130	ALDERGROVE INFO
TWR	118.300	ALDERGROVE TOWER
	121.600	BELFAST FIRE
LIGHTING		
TWY	Green C/L lighting on TWY A, B, C, D, J & L. Blue edge lights on B, F & L (south side). Alternate green/yellow lead-off lights RWY 07 onto TWY A & B. Alternate green/yellow lead-off lights RWY 25 onto RWY 35, TWY B, D & J. Alternate green/yellow lead-off lights RWY 35 onto TWY C. Runway guard lights at runway holding positions.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS

APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 07/25	Grooved Asphalt	71/R/B/X/T	-
RWY 17/35	Porous Friction Course	71/F/C/W/U	-
Main Apron	Asphalt	71/R/B/W/U	232 ft amsl
East Apron	Asphalt	71/R/B/W/U	241 ft amsl
West Apron	Concrete	71/R/B/W/U	222 ft amsl
GA Apron	Concrete	15	248 ft amsl
Echo Apron	Asphalt/Concrete	-	-
TWY A, C & D	Asphalt	71/R/B/W/U	-
TWY B	Concrete	71/R/B/W/U	-
TWY F	Asphalt	71/R/B/W/U	-
TWY L	Asphalt/Concrete	71/R/B/W/U	-

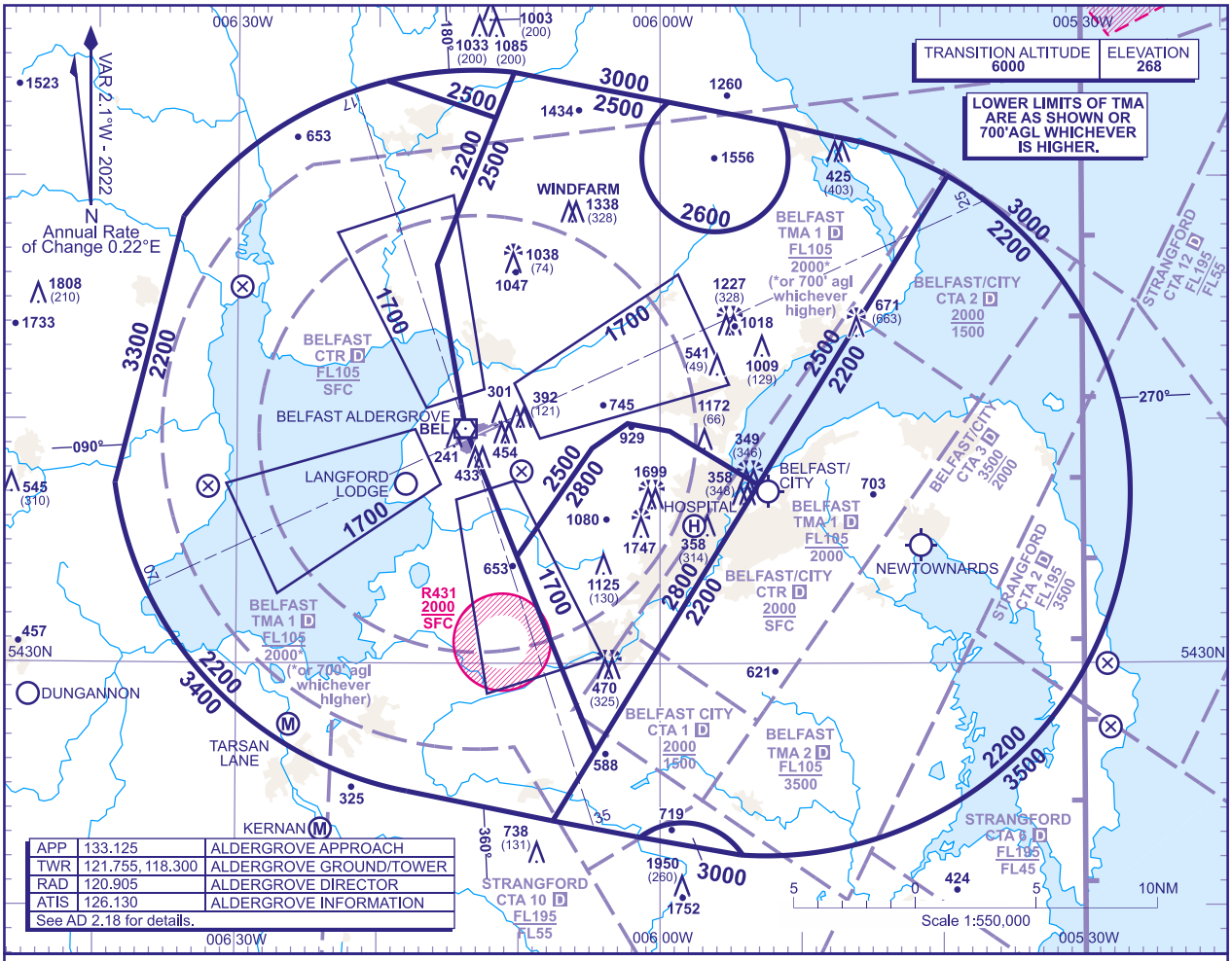
CHANGE (7/25): REVISED PARKING LAYOUT. STANDS 21, 22, 23, 24, 25A, 25B, 26, 27, 28, 29, 30, 1F, 2F, 3F, 4F, 5F, 6F ADDED/REVISED. STAND 25, 27A REMOVED.

AERO INFO DATE 02 MAY 25

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1950
HEIGHTS IN FEET AGL (770)

BELFAST ALDERGROVE



APP	133.125	ALDERGROVE APPROACH
TWR	121.755, 118.300	ALDERGROVE GROUND/TOWER
RAD	120.905	ALDERGROVE DIRECTOR
ATIS	126.130	ALDERGROVE INFORMATION
See AD 2.18 for details.		

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2200** in the sector defined by the lateral limits; 545357N 0061923W - 545226N 0061135W - 544625N 0061551W - 543940N 0061348W - 542623N 0060435W - 542333N 0060733W - 542444N 0061744W thence clockwise by an arc of a circle radius 15NM centred on 543927N 0061257W to 543723N 0063830W - 544821N 0063345W thence clockwise by an arc of a circle radius 15NM centred on 543927N 0061257W to 545357N 0061923W.

b) **2500** in the sector defined by the lateral limits; 545357N 0061923W thence clockwise by an arc of a circle radius 15NM centred on 543927N 0061257W to 545421N 0061023W - 545226N 0061135W - 545357N 0061923W.

c) **2200** in the sector defined by the lateral limits; 545000N 0053935W thence clockwise by an arc of a circle radius 15NM centred on 543705N 0055221W to 542208N 0055411W thence anti-clockwise by an arc of a circle radius 3NM centred on 542031N 0055823W to 542253N 0060130W - 542333N 0060733W - 545000N 0053935W.

d) **2500** in the sector defined by the lateral limits; 545421N 0061023W thence clockwise by an arc of a circle radius 15NM centred on 543927N 0061257W to 545409N 0060806W - 545309N 0055918W thence anti-clockwise by an arc of a circle radius 3NM centred on 545047N 0055605W to 545215N 0055132W - 545147N 0054723W thence clockwise by an arc of a circle radius 15NM centred on 543705N 0055221W to 545000N 0053935W - 543721N 0055303W - 543934N 0055920W - 543953N 0060220W - 543852N 0060451W - 543426N 0061008W - 543940N 0061348W - 544625N 0061551W - 545421N 0061023W.

e) **2600** in the sector defined by the lateral limits; 545309N 0055918W thence anti-clockwise by an arc of a circle radius 3NM centred on 545047N 0055605W to 545215N 0055132W - 545309N 0055918W.

f) **2800** in the sector defined by the lateral limits; 543426N 0061008W - 543852N 0060451W - 543953N 0060220W - 543934N 0055920W - 543721N 0055303W - 542623N 0060435W - 543426N 0061008W.

g) **3000** in the sector defined by the lateral limits; 542208N 0055411W thence clockwise by an arc of a circle radius 15NM centred on 543705N 0055221W to 542223N 0055716W - 542253N 0060130W thence clockwise by an arc of a circle radius 3NM centred on 542028N 0055827W to 542208N 0055411W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher to **BEL VOR**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **BEL VOR**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be Issued If the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (6/25): AREA A & B MINIMUM INITIAL ALTITUDE REVISED.

AERO INFO DATE 17 MAR 25

AD 2-EGAA-5-1

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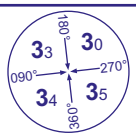
INSTRUMENT APPROACH CHART - ICAO

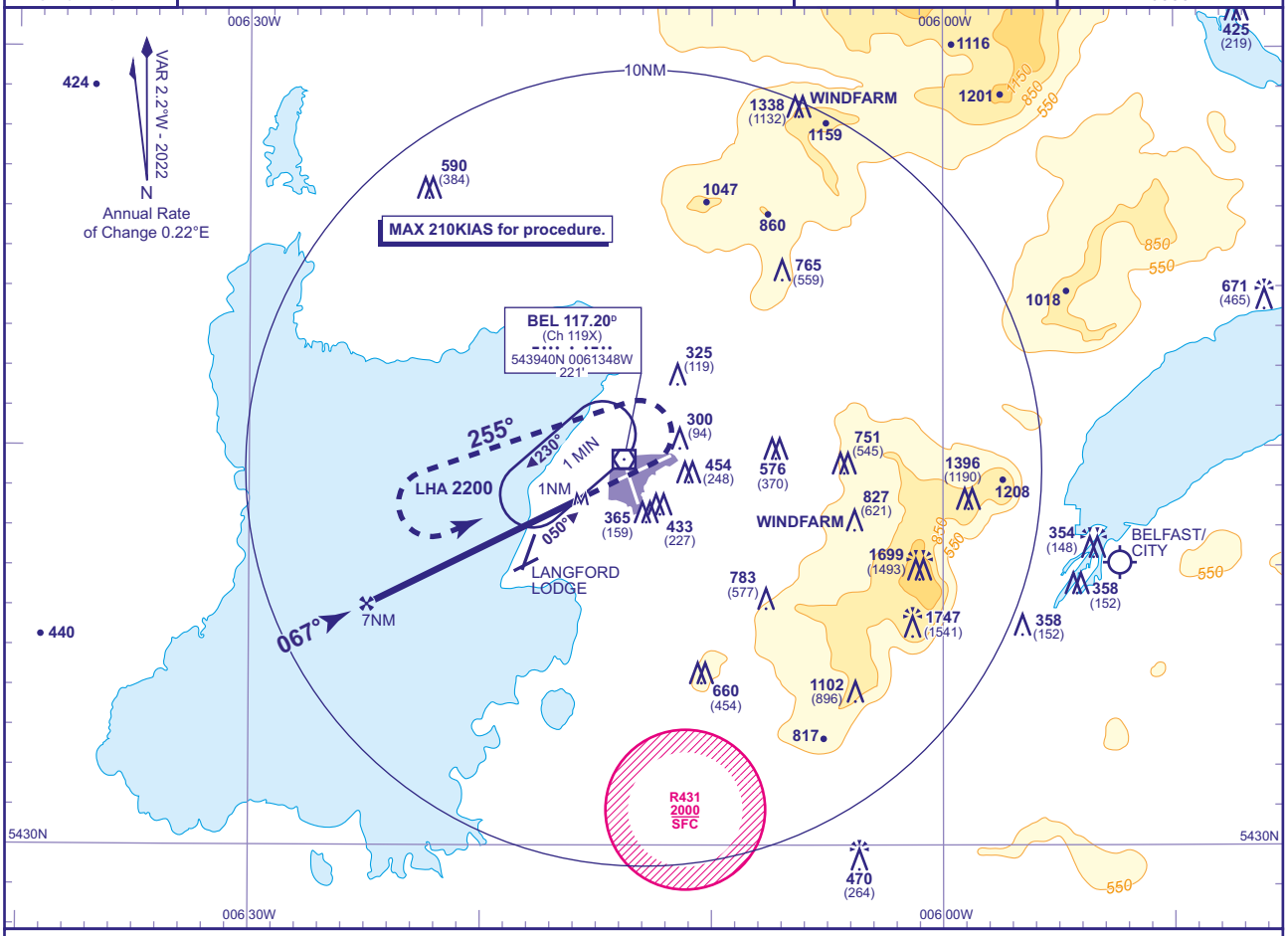
BELFAST ALDERGROVE
SRA RTR 2NM
RWY 07
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	206
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION	1747 AMSL (1541) (ABOVE THR)
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC	

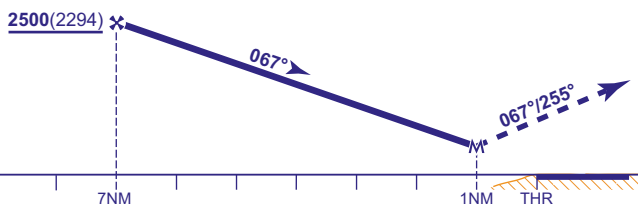
TRANSITION ALTITUDE **6000**



RADAR ADVISORY HEIGHTS Gradient 5.39%, 328FT/NM

NM	6.0	5.0	4.0	3.0	2.0
ALT(HGT)	**2170**(1964)	**1840**(1634)	**1520**(1314)	**1190**(984)	**860**(654)

Initial and intermediate approach as directed by radar.



MAPt 1NM after RTR

Continuous climb to **3000**. Initially, straight ahead to **1200** then climbing left turn onto track 255° to **3000**, then turn left to **VOR BEL** or as directed.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**630**(424)	**630**(424)	**630**(424)	**630**(424)		FT/MIN	800	700	600	500	400
VM(C)OCA (OCH AAL)	Total Area	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)	RTR to MAPt	MIN:SEC	0:22	0:26	0:30	0:36	0:45

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE.

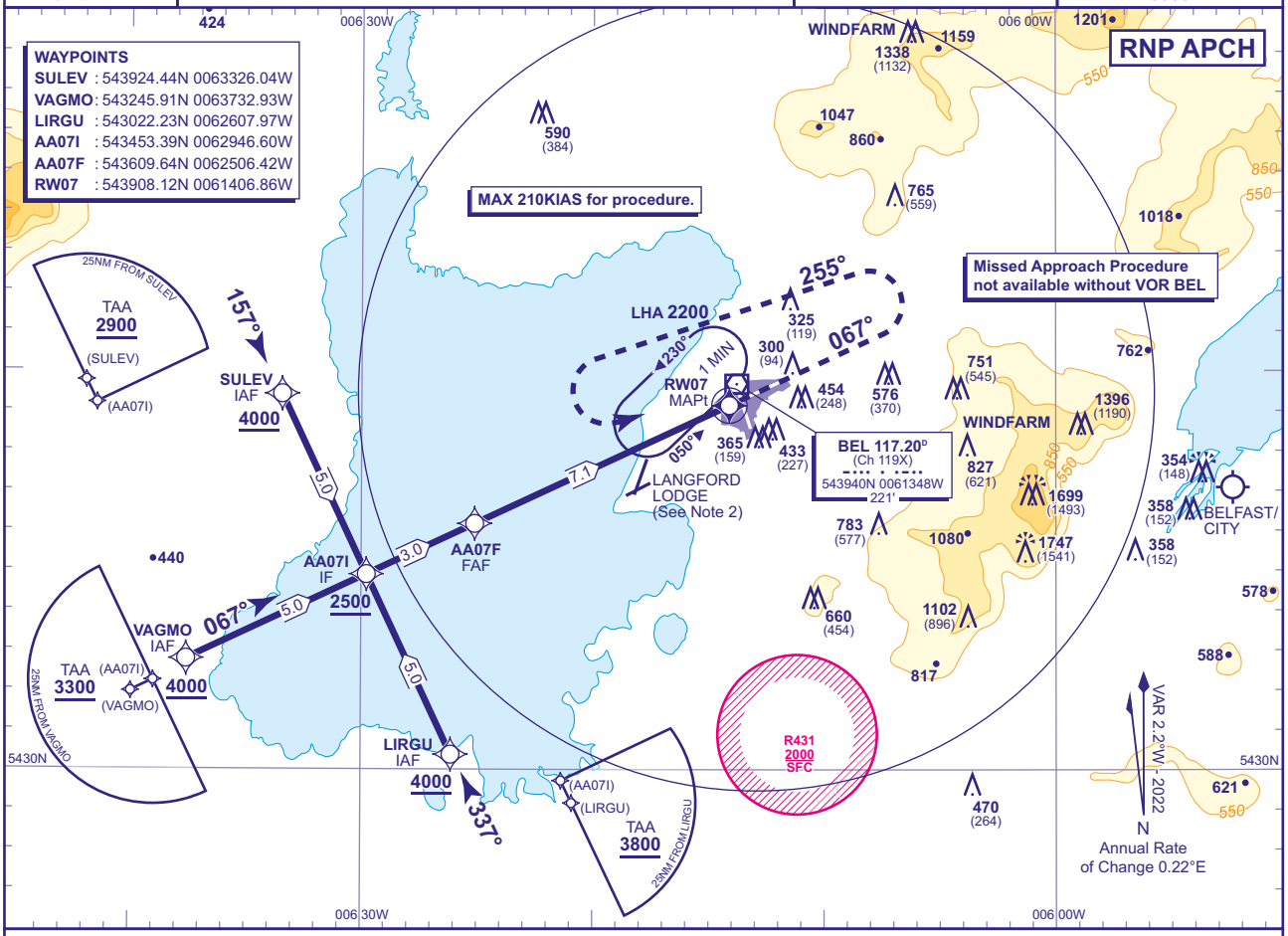
AERO INFO DATE 14 FEB 25

INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
RNP
RWY 07
(ACFT CAT A,B,C,D)

3.5 MSA 25NM ARP	APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268
	TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	206
	RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION	1747 AMSL (1541)(ABOVE THR)
	ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC	

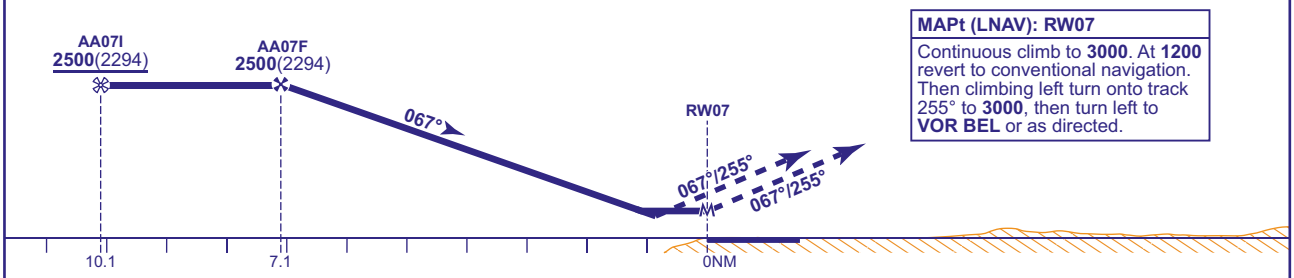
MIN TEMP -15°C
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0°, 318FT/NM, LNAV - Gradient 5.24%, 318FT/NM

NM to RW07	6	5	4	3	2
ALT(HGT)	**2170**(1964)	**1850**(1644)	**1530**(1324)	**1210**(1004)	**890**(684)

TCH 50



MAPt (LNAV): RW07
Continuous climb to **3000**. At **1200** revert to conventional navigation. Then climbing left turn onto track 255° to **3000**, then turn left to **VOR BEL** or as directed.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**520**(314)	**520**(314)	**520**(314)	**520**(314)		FT/MIN	850	740	640	530	420
	LNAV	**610**(404)	**610**(404)	**610**(404)	**610**(404)							
VM(C)OCA (OCH AAL)	Total Area	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)							

NOTE 1 Pilots should 'Request RNP Approach' on first contact with Aldergrove Approach.
2 Pilots are reminded of the close proximity of Langford Lodge, 3.5NM southwest of Belfast Aldergrove.

CHANGE (1/25): BEL VOR RECALIBRATED. BEL VOR/DME HOLD.

INSTRUMENT APPROACH CHART - ICAO

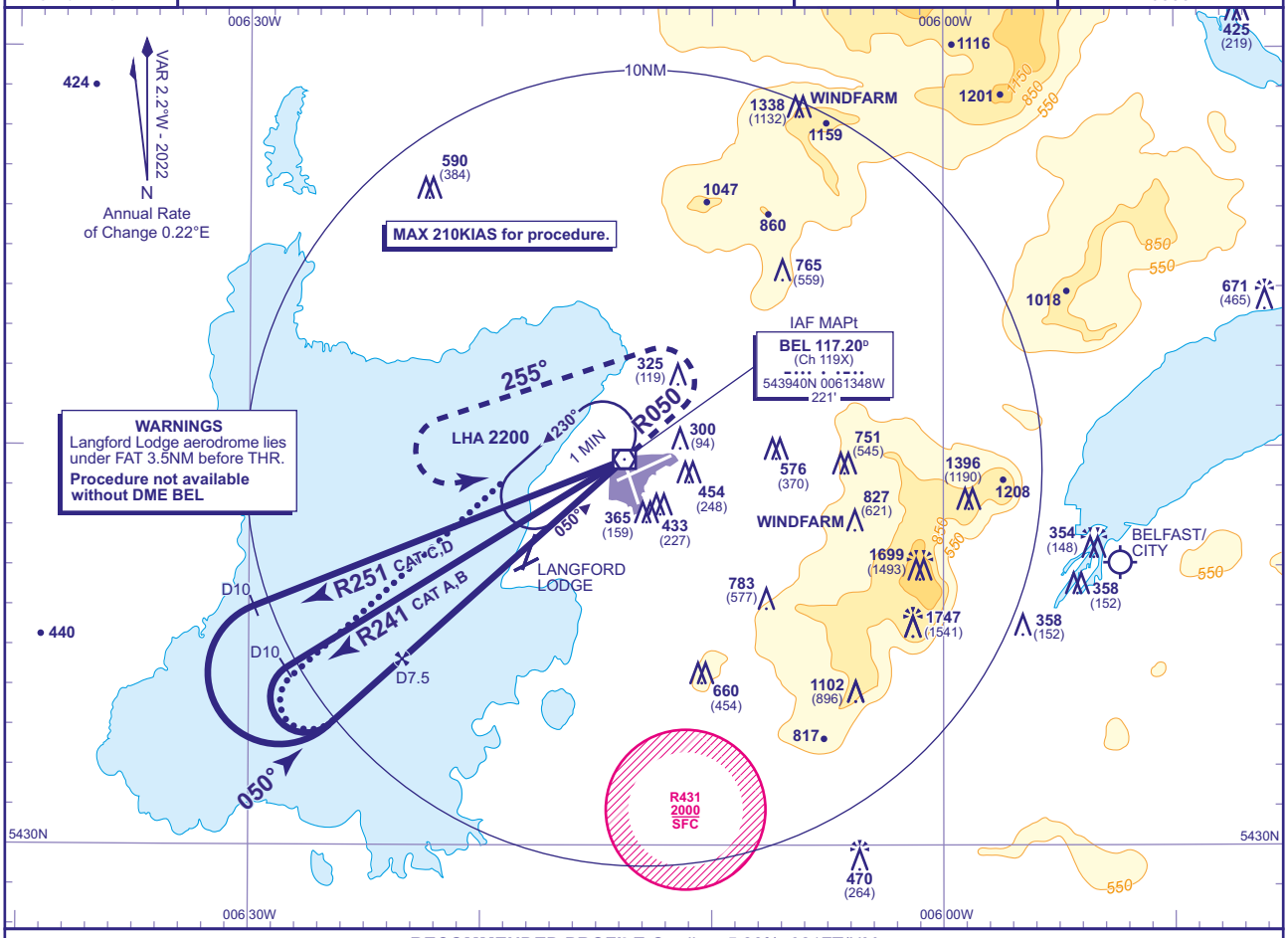
BELFAST ALDERGROVE
VOR/DME
RWY 07
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

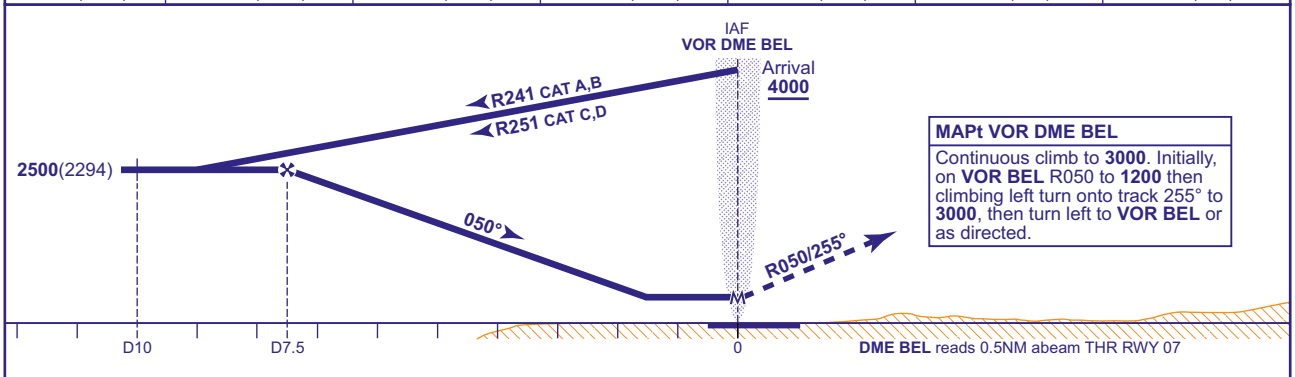
APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	206
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION	1747 AMSL (1541) (ABOVE THR)
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.28%, 321FT/NM

DME BEL	7	6	5	4	3	2
ALT(HGT)	**2340**(2134)	**2020**(1814)	**1700**(1494)	**1380**(1174)	**1060**(854)	**740**(534)



MAPt VOR DME BEL
Continuous climb to **3000**. Initially, on **VOR BEL** R050 to **1200** then climbing left turn onto track 255° to **3000**, then turn left to **VOR BEL** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**630**(424)	**630**(424)	**1180**(974)	**1290**(1084)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(482)	**840**(572)	**1250**(982)	**1360**(1092)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead VOR BEL (IAF) extend outbound leg of holding pattern descending to **2500**(2294). At BEL DME 10 turn left to intercept extended FAT, then as for main procedure.

NOTES **1** FAT is offset 16° and intercepts the RWY C/L 1.1NM from the THR (nominal BEL DME 2).
2 Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE. OCA(OCH). VM(C)OCA(OCH AAL) CAT C/D.

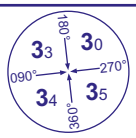
AERO INFO DATE 14 FEB 25

AD 2-EGAA-8-3

I

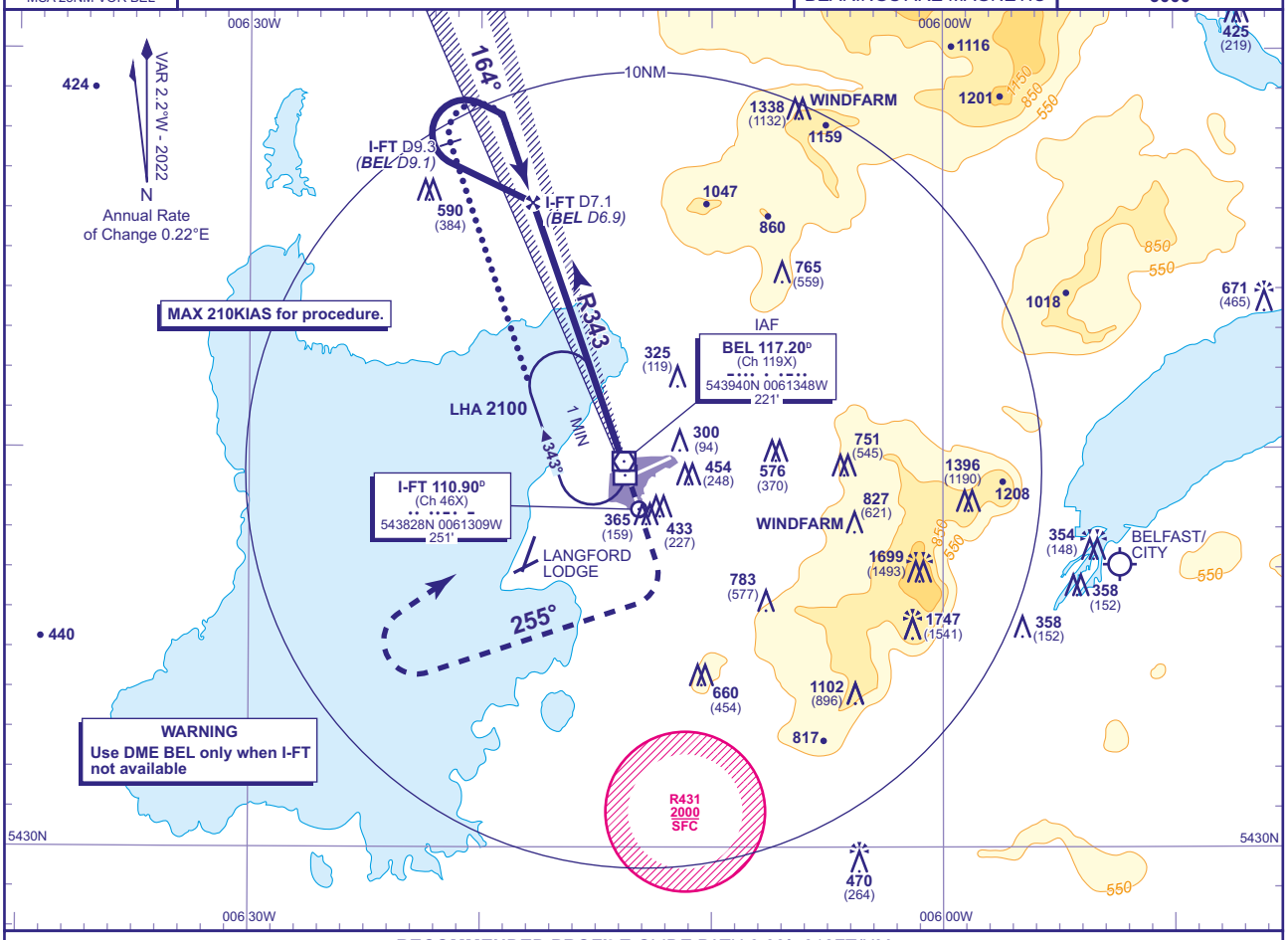
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
ILS/DME/VOR
RWY 17
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

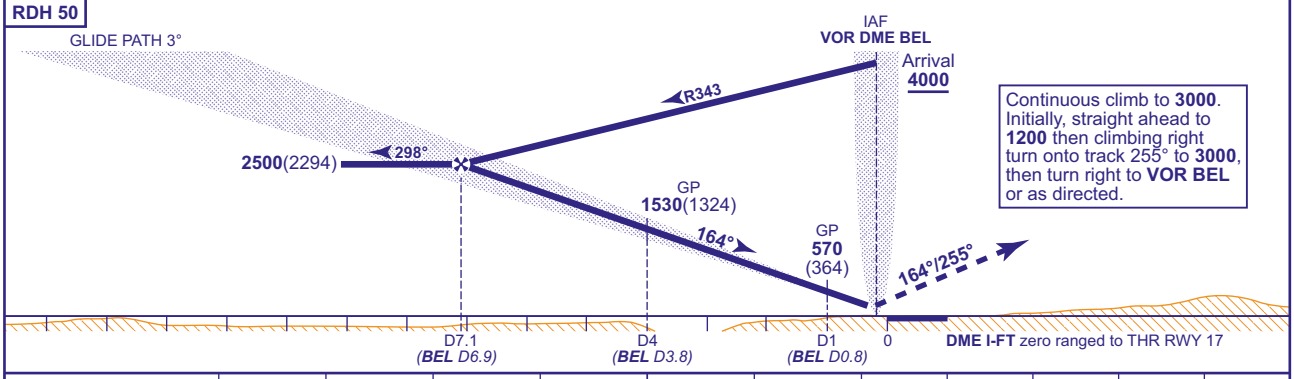
APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268	TRANSITION ALTITUDE 6000
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	206	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION 1747 AMSL (1541) (ABOVE THR)		
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3.00°, 318FT/NM

DME I-FT (BEL)	6(5.8)	5(4.8)	4(3.8)	3(2.8)	2(1.8)	1(0.8)
ALT(HGT)	**2170**(1964)	**1850**(1644)	**1530**(1324)	**1210**(1004)	**890**(684)	**570**(364)

RDH 50



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**373**(167)	**384**(178)	**397**(191)	**410**(204)
VM(C)OCA (OCH AAL)	Total Area	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead VOR BEL (IAF) extend outbound leg of holding pattern descending to **2500**(2294). At I-FT DME 9.3 (BEL DME 9.1) turn right to establish on LOC inbound, then continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME
Inform ATC prior to commencing the procedure. Aircraft will be radar vectored onto the LOC, to be established at **2500**(2294) not later than 2.5NM before the FAP. Radar range will be passed at 4NM before the THR inbound.

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

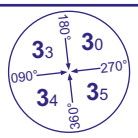
CHANGE (5/25): NW MSA INCREASE. OCA(OCH).

AERO INFO DATE 14 FEB 25

INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE LOC/DME/VOR RWY 17

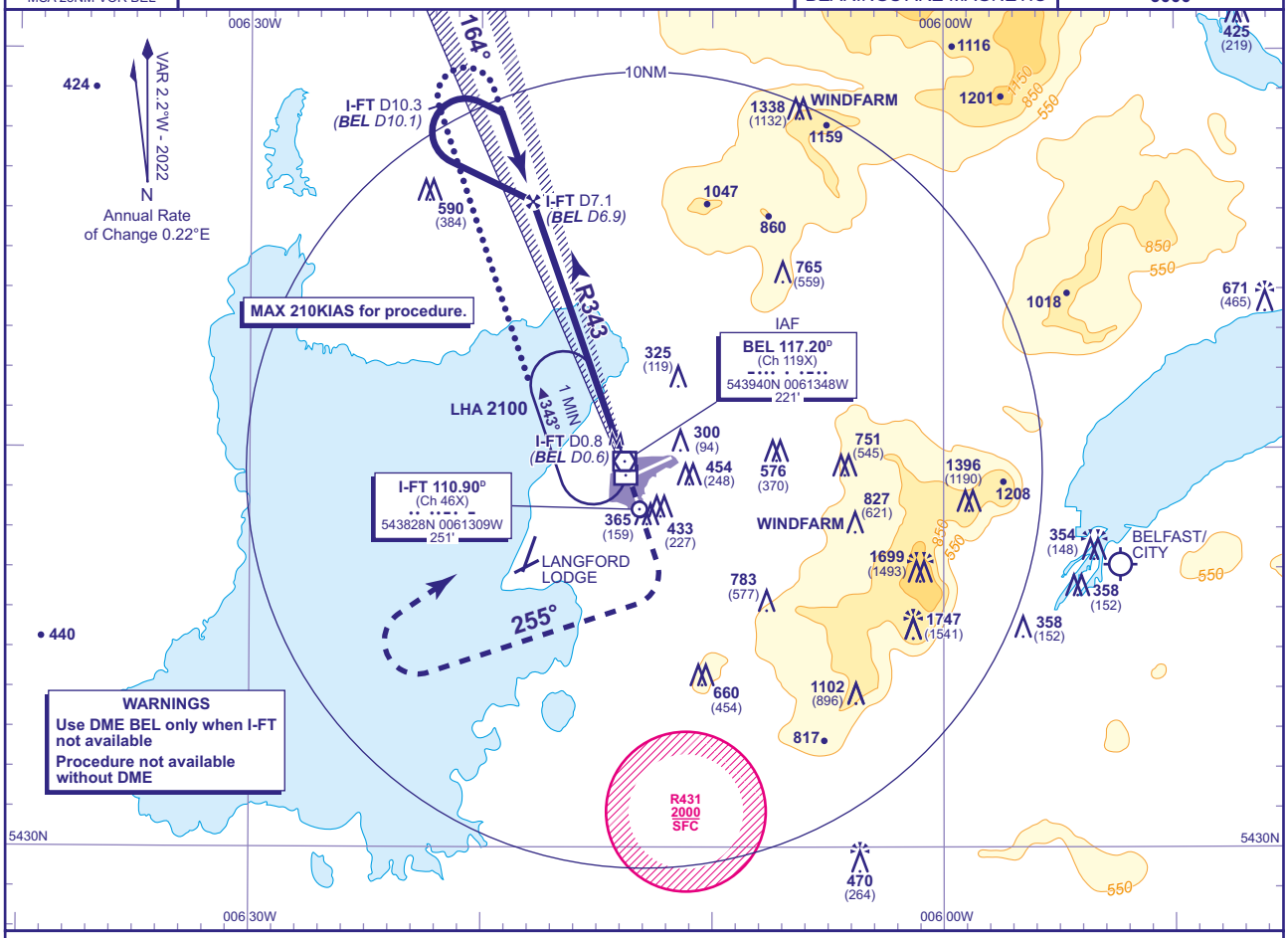
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

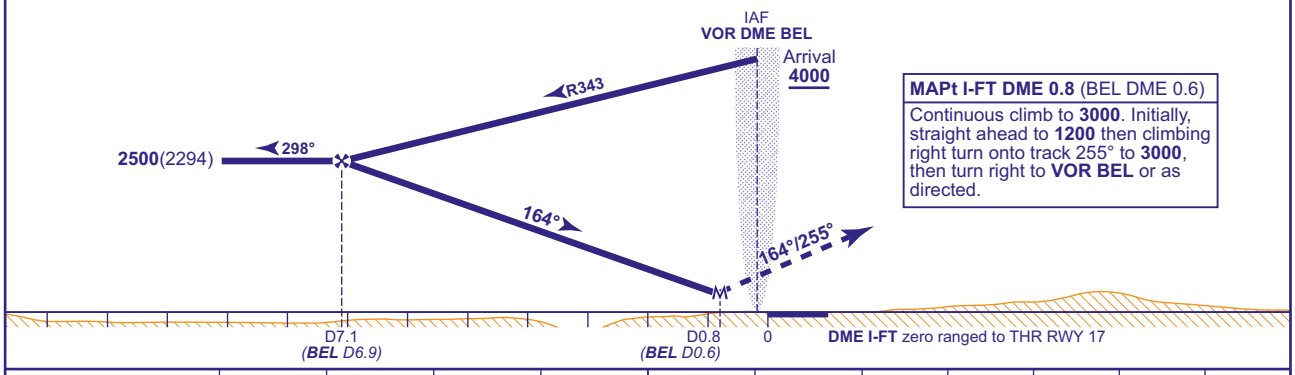
APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	206
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION	1747 AMSL (1541) (ABOVE THR)
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-FT (BEL)	6(5.8)	5(4.8)	4(3.8)	3(2.8)	2(1.8)	1(0.8)
ALT(HGT)	**2170**(1964)	**1850**(1644)	**1530**(1324)	**1210**(1004)	**890**(684)	**570**(364)



MAPt I-FT DME 0.8 (BEL DME 0.6)
Continuous climb to **3000**. Initially, straight ahead to **1200** then climbing right turn onto track 255° to **3000**, then turn right to **VOR BEL** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**500**(294)	**500**(294)	**500**(294)	**500**(294)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead VOR BEL (IAF) extend outbound leg of holding pattern descending to **2500**(2294). At I-FT DME 10.3 (BEL DME 10.1) turn right to establish on LOC inbound, then continue as for main procedure.

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

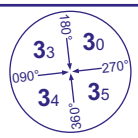
CHANGE (5/25): NW MSA INCREASE. OCA(OCH).

AERO INFO DATE 14 FEB 25

AD 2-EGAA-8-5

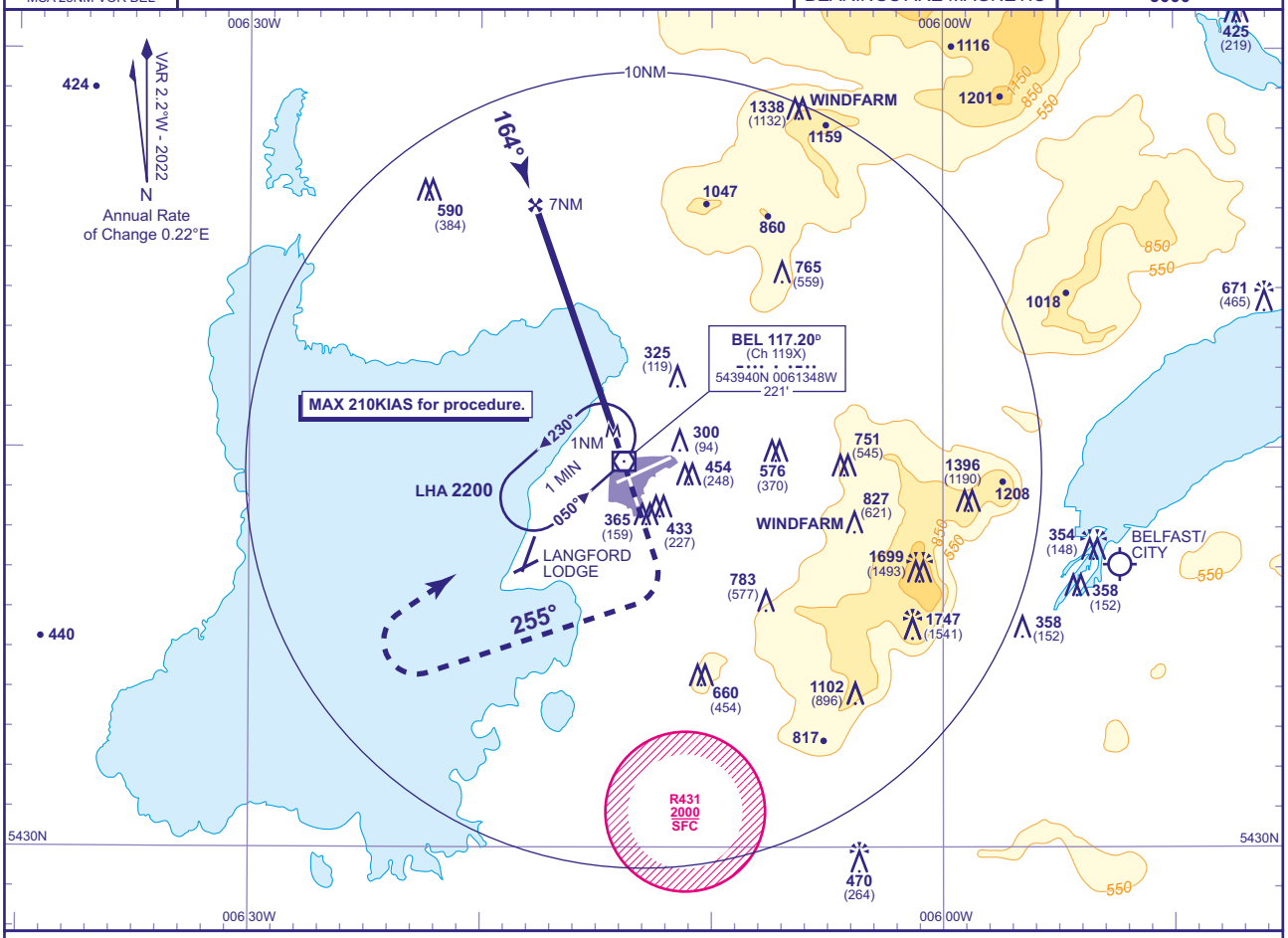
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
SRA RTR 2NM
RWY 17
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

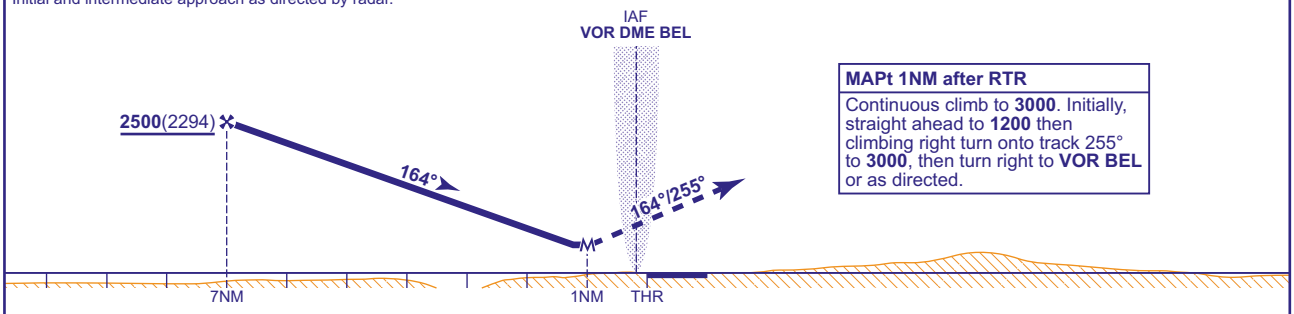
APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268	TRANSITION ALTITUDE 6000
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	206	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION 1747 AMSL (1541) (ABOVE THR)		
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		



RADAR ADVISORY HEIGHTS Gradient 5.39%, 328FT/NM

NM	6.0	5.0	4.0	3.0	2.0
ALT(HGT)	**2170**(1964)	**1840**(1634)	**1520**(1314)	**1190**(984)	**860**(654)

Initial and intermediate approach as directed by radar.



MAPt 1NM after RTR

Continuous climb to **3000**. Initially, straight ahead to **1200** then climbing right turn onto track 255° to **3000**, then turn right to **VOR BEL** or as directed.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**620**(414)	**620**(414)	**620**(414)	**620**(414)		FT/MIN	870	760	660	550	440
VM(C)OCA (OCH AAL)	Total Area	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)	RTR to MAPt	MIN:SEC	0:22	0:26	0:30	0:36	0:45

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

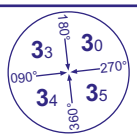
CHANGE (5/25): NW MSA INCREASE.

AERO INFO DATE 14 FEB 25

INSTRUMENT APPROACH CHART - ICAO

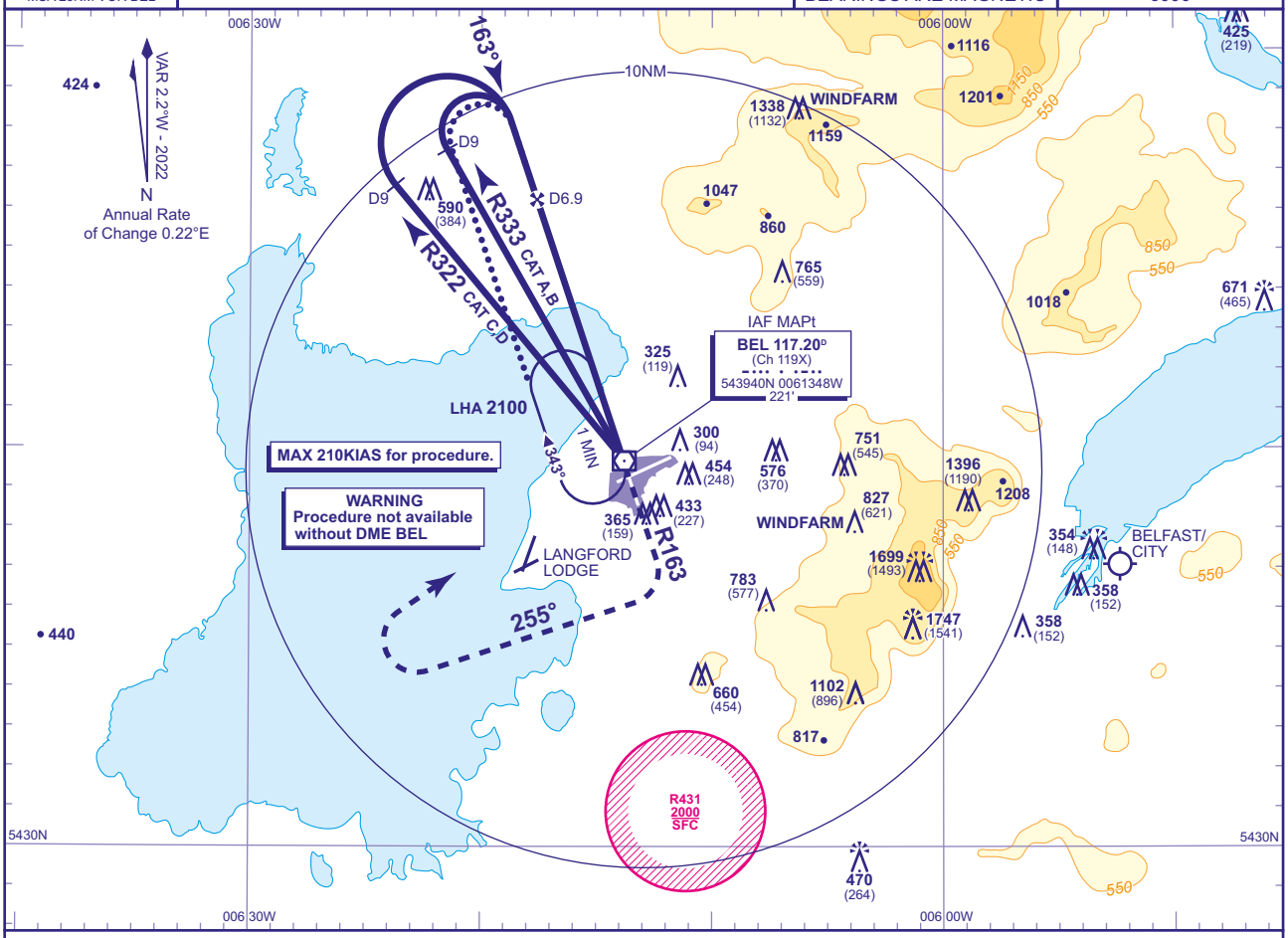
BELFAST ALDERGROVE VOR/DME RWY 17

(ACFT CAT A,B,C,D)



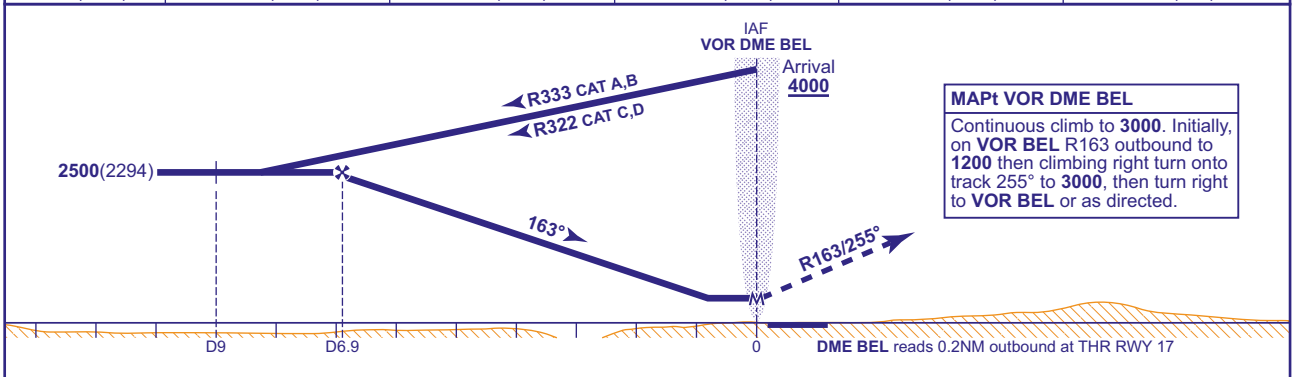
MSA 25NM VOR BEL

APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268	TRANSITION ALTITUDE 6000
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	206	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION 1747 AMSL (1541) (ABOVE THR)		
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.20%, 316FT/NM

DME BEL	6	5	4	3	2
ALT(HGT)	**2220**(2014)	**1900**(1694)	**1580**(1374)	**1270**(1064)	**950**(744)



MAPt VOR DME BEL

Continuous climb to **3000**. Initially, on **VOR BEL** R163 outbound to **1200** then climbing right turn onto track 255° to **3000**, then turn right to **VOR BEL** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**570**(364)	**570**(364)	**570**(364)	**570**(364)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead VOR BEL (IAF) extend outbound leg of holding pattern descending to **2500**(2294). At BEL DME 9 turn right to intercept extended FAT, then continue as for main procedure.

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

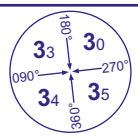
CHANGE (5/25): NW MSA INCREASE. NO DME PROCEDURE WITHDRAWN. OCA(OCH) REVISED. WARNING ADDED.

AERO INFO DATE 03 MAR 25

AD 2-EGAA-8-7

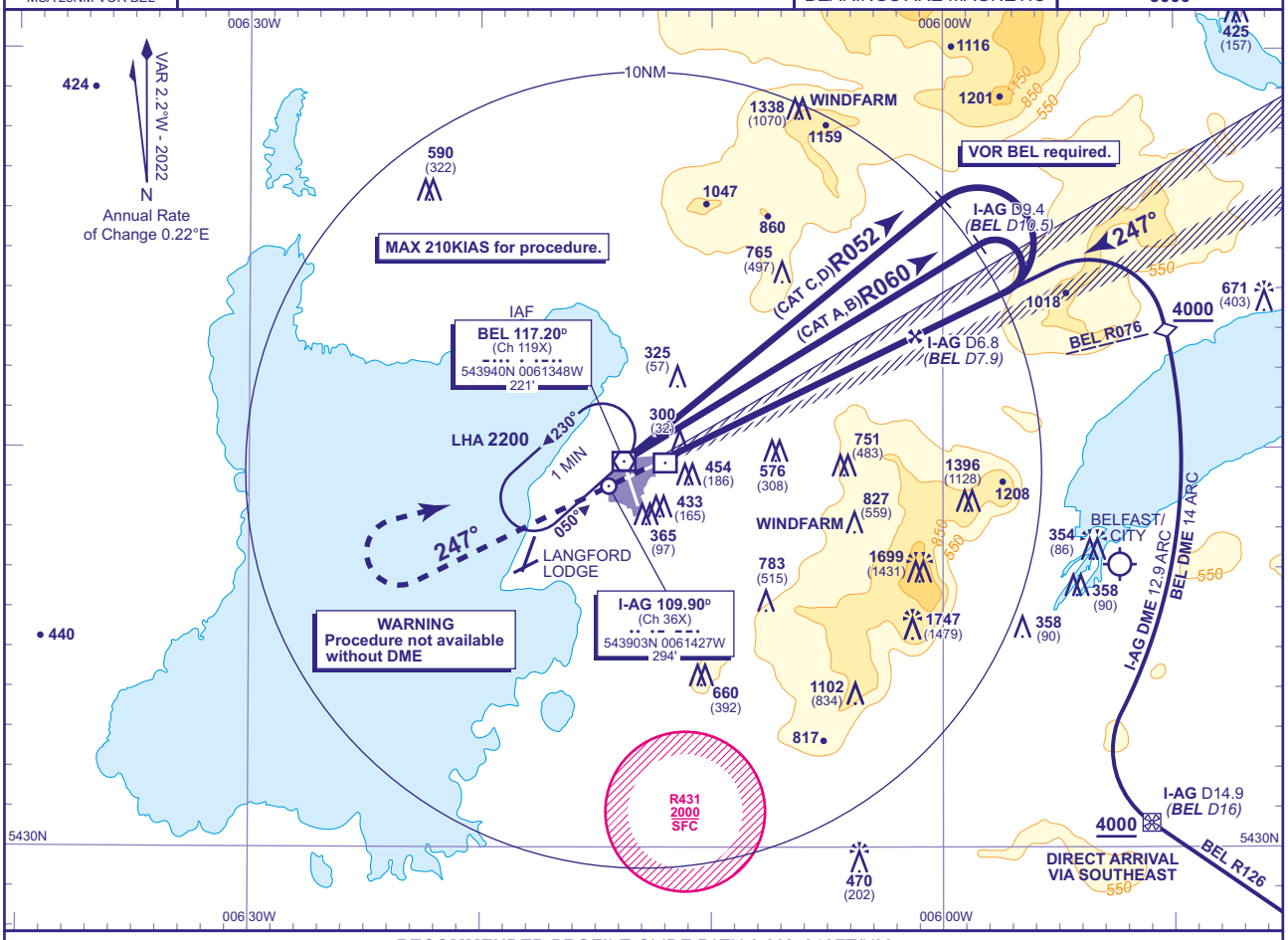
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
ILS/DME
RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

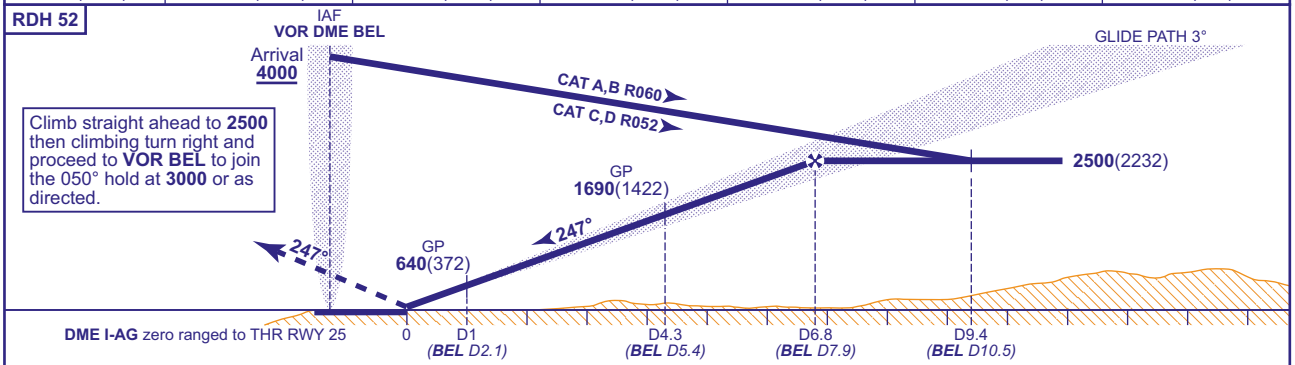
APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	**268**	TRANSITION ALTITUDE **6000**
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	**268**	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION **1747 AMSL** (1479) (ABOVE THR)		
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3.00°, 318FT/NM

DME I-AG (BEL)	6(7.1)	5(6.1)	4(5.1)	3(4.1)	2(3.1)	1(2.1)
ALT(HGT)	**2230**(1962)	**1910**(1642)	**1590**(1322)	**1280**(1012)	**960**(692)	**640**(372)

RDH 52



Aircraft Category		A	B	C	D
OCA (OCH)	**CAT I**	**416**(148)	**427**(159)	**438**(170)	**450**(182)
	CAT II	**322**(54)	**334**(66)	**347**(79)	**365**(97)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

NOTE. Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE. OCA(OCH). WARNING ADDED.

AERO INFO DATE 14 FEB 25

AD 2-EGAA-8-8

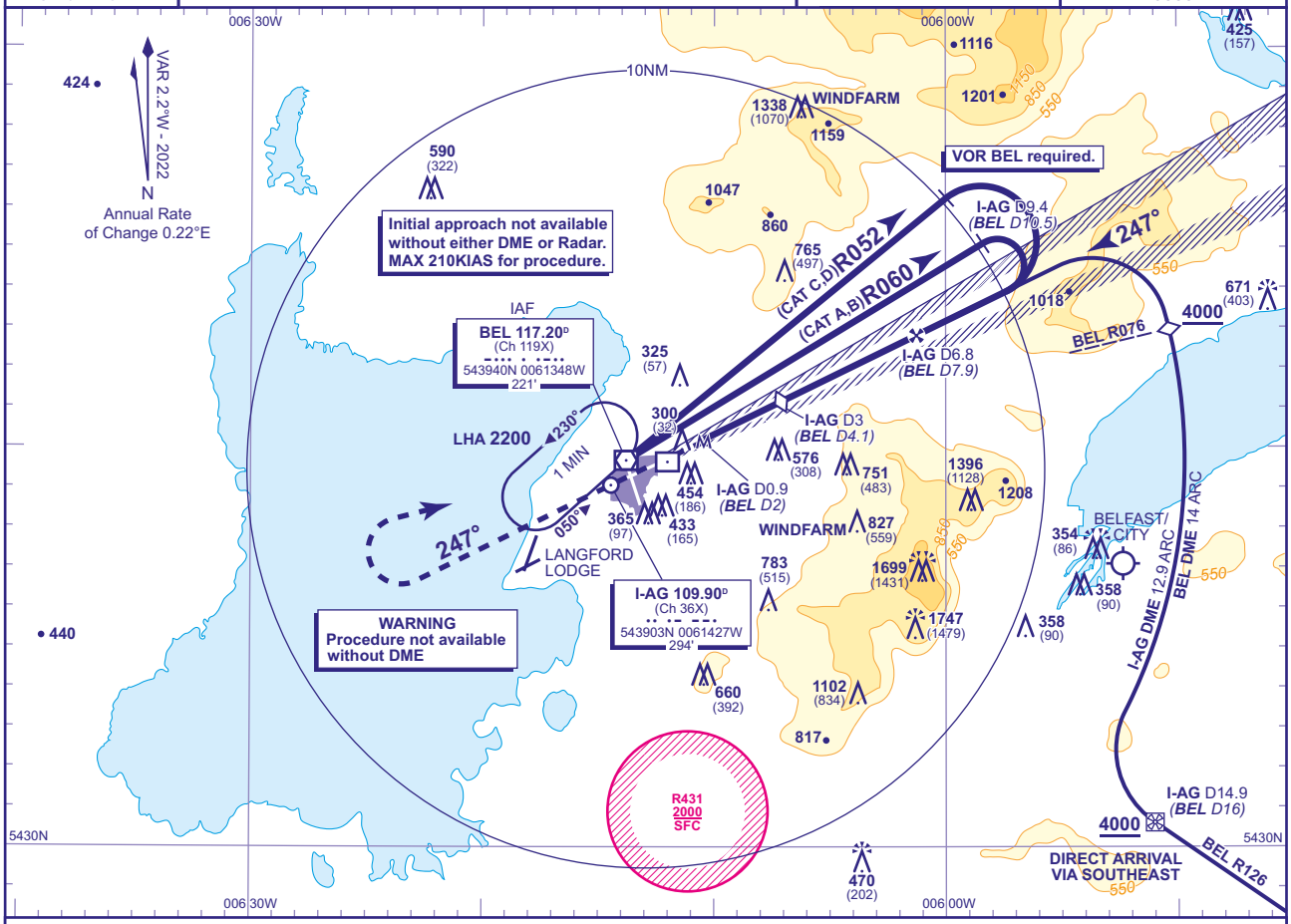
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
LOC/DME RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

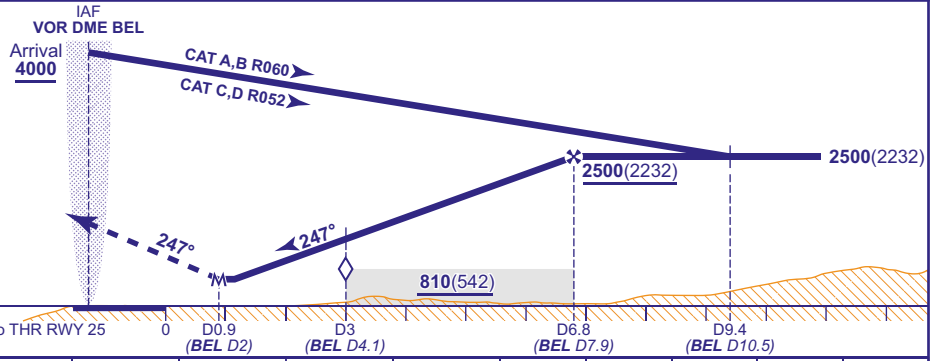
APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268	
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	268	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION	1747 AMSL (1479) (ABOVE THR)	
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-AG (BEL)	6(7.1)	5(6.1)	4(5.1)	3(4.1)	2(3.1)
ALT(HGT)	**2230**(1962)	**1910**(1642)	**1590**(1322)	**1280**(1012)	**960**(692)

MAPt I-AG D0.9 (BEL DME 2.0)
Continuous climb to **3000**. Initially straight ahead to **2500** then right turn to **VOR BEL** to join 050° hold at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**680**(412)	**680**(412)	**680**(412)	**680**(412)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

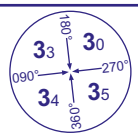
NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE. NO DME PROCEDURE WITHDRAWN. SDF MOC(A). WARNING ADDED.

AERO INFO DATE 03 MAR 25

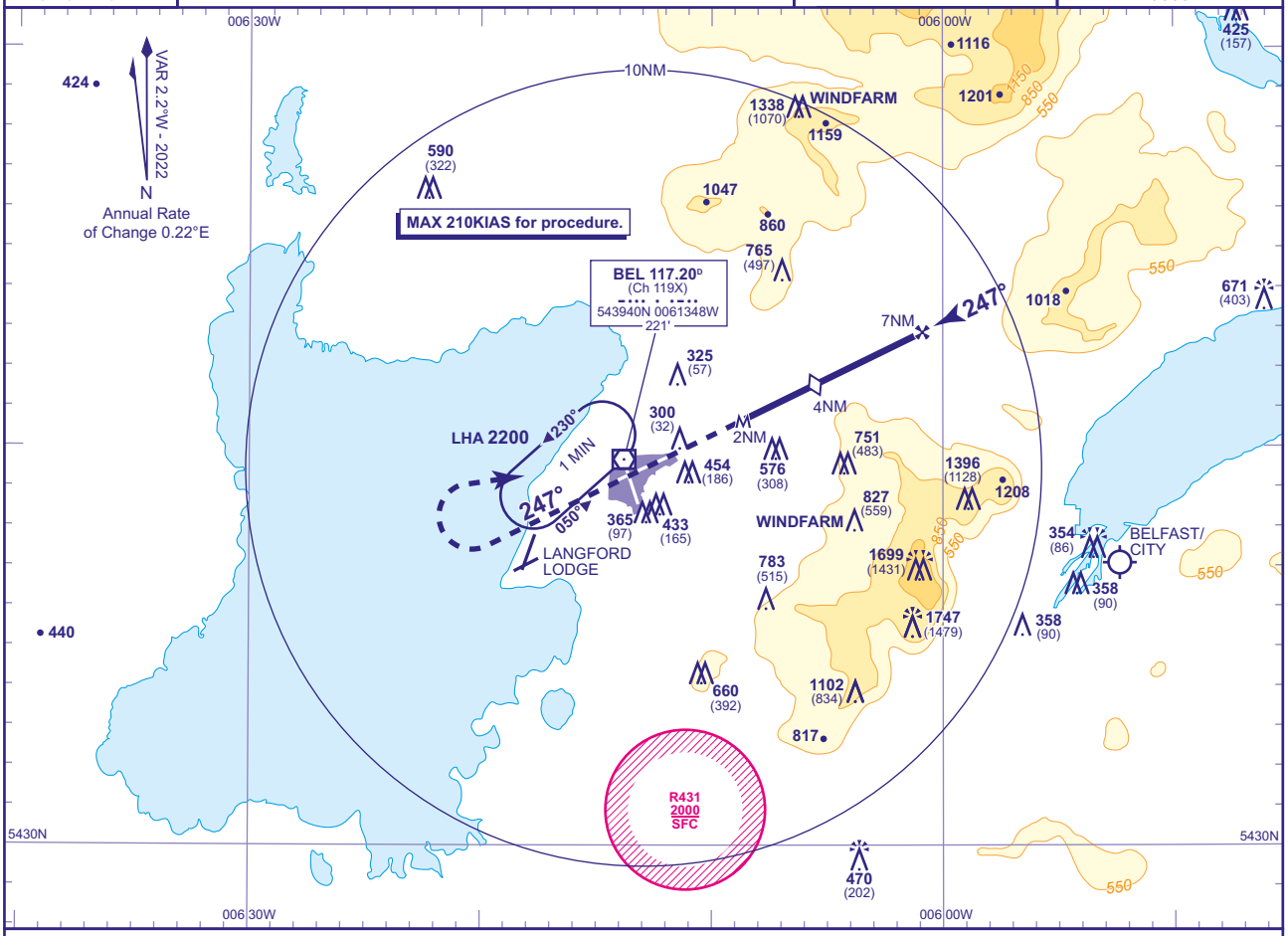
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
SRA RTR 2NM
RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	**268**	TRANSITION ALTITUDE **6000**
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	**268**	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION **1747 AMSL** (1479) (ABOVE THR)		
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		

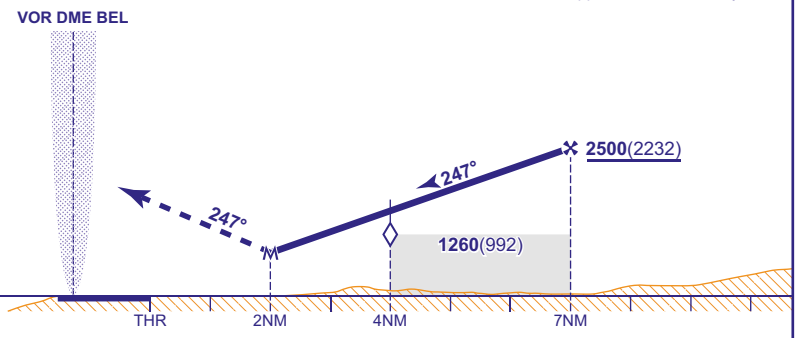


RADAR ADVISORY HEIGHTS Gradient 5.25%, 319FT/NM

NM	7.0	6.0	5.0	4.0 **(SDF)**	3.0	2.0
ALT(HGT)	**2500**(2232)	**2180**(1912)	**1860**(1592)	**1540**(1272)	**1220**(952)	**910**(642)

Initial and intermediate approach as directed by radar.

MAPt RTR 2NM
Continuous climb to **3000**. Initially straight ahead to **2500** then right turn to **VOR BEL** to join 050° hold at **3000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**910**(642)	**910**(642)	**910**(642)	**910**(642)		FT/MIN	850	740	640	530	430
VM(C)OCA (OCH AAL)	Total Area	**910**(642)	**910**(642)	**1180**(912)	**1290**(1022)							

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE. SDF MOC(A). VM(C)OCA(OCH AAL) CAT A/B.

AERO INFO DATE 14 FEB 25

AD 2-EGAA-8-10

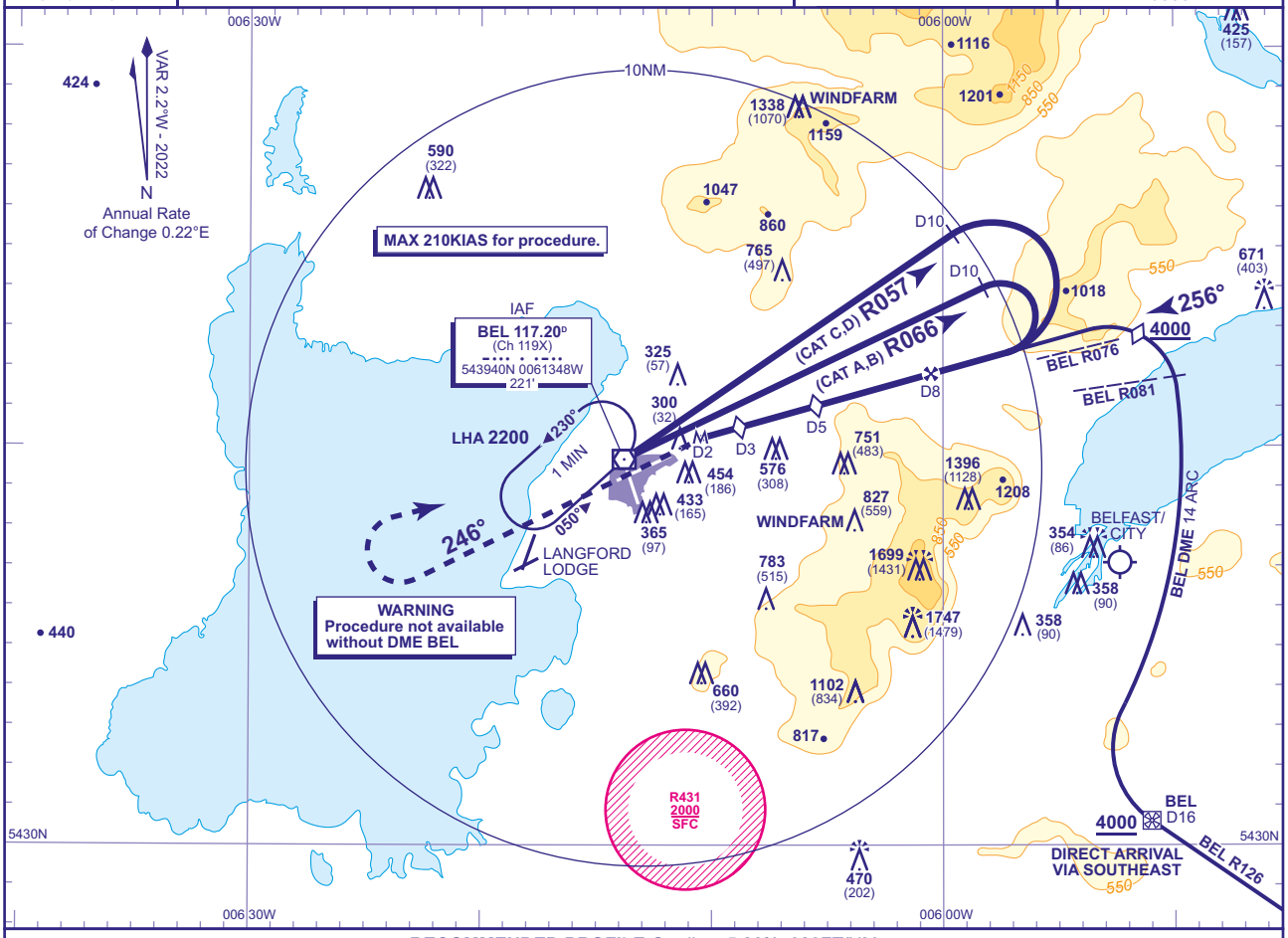
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
VOR/DME
RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268	
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	268	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION	1747 AMSL (1479) (ABOVE THR)	
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000

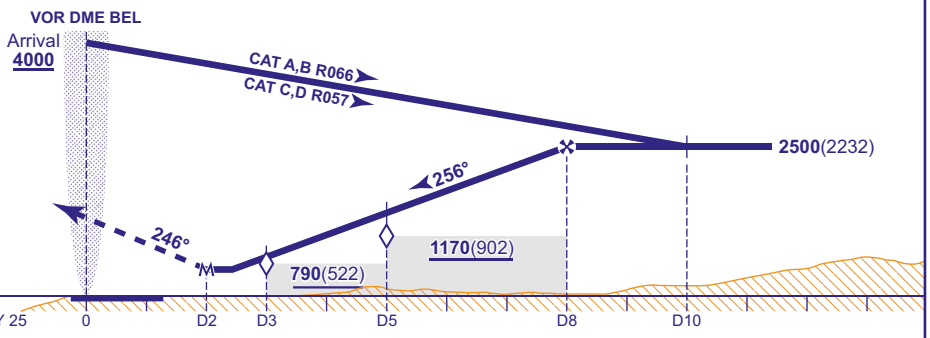


RECOMMENDED PROFILE Gradient 5.26%, 320FT/NM

DME BEL	7	6	5	4	3
ALT(HGT)	**2180**(1912)	**1860**(1592)	**1540**(1272)	**1220**(952)	**900**(632)

MAPt BEL DME 2

Continuous climb to **3000**. Initially, on track 246° to **2500** then turn right to **VOR BEL** to join 050° hold at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**700**(432)	**700**(432)	**700**(432)	**700**(432)
VM(C)OCA (OCH AAL)	Total Area	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

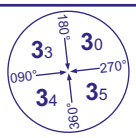
NOTES **1** FAT is offset 9.8° and intercepts RWY 25 extended C/L approximately 1.2NM before THR.
2 Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE.

AERO INFO DATE 14 FEB 25

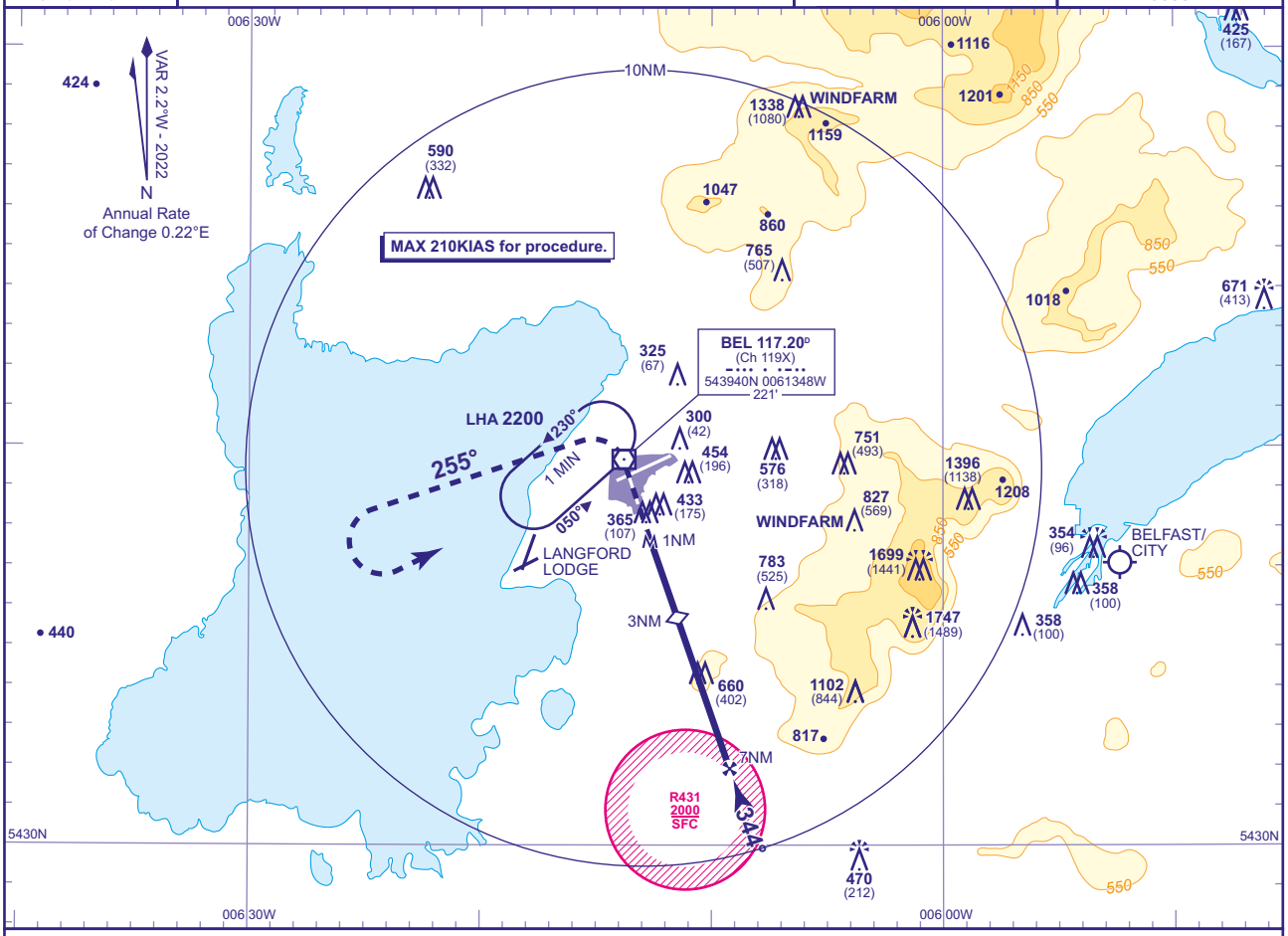
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE
SRA RTR 2NM
RWY 35
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268	TRANSITION ALTITUDE 6000
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	258	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION 1747 AMSL (1489) (ABOVE THR)		
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		



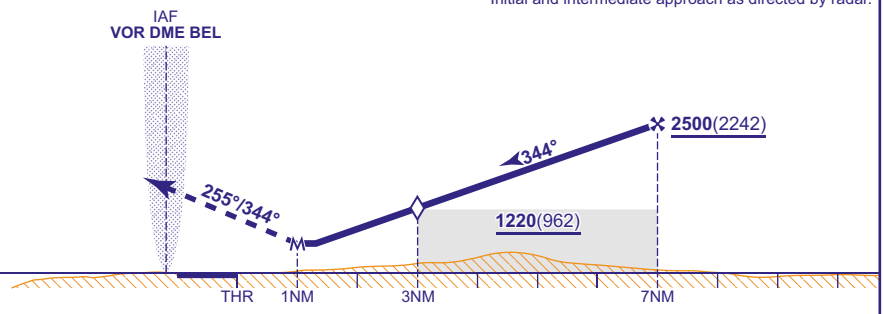
RADAR ADVISORY HEIGHTS Gradient 4.9%, 300FT/NM

NM	6.0	5.0	4.0	3.0	2.0
ALT(HGT)	**2180**(1922)	**1860**(1602)	**1540**(1282)	**1220**(962)	**900**(642)

Initial and intermediate approach as directed by radar.

MAPt 1NM after RTR

Continuous climb to **3000**. Initially, straight ahead to **1300** then turn left onto track 255° to **3000**. At **3000** turn left to **VOR BEL** to hold at **3000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**700**(442)	**700**(442)	**700**(442)	**700**(442)		FT/MIN	850	750	640	530	430
VM(C)OCA (OCH AAL)	Total Area	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)	RTR to MAPt	MIN:SEC	0:22	0:26	0:30	0:36	0:45

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE.

AERO INFO DATE 14 FEB 25

AD 2-EGAA-8-12

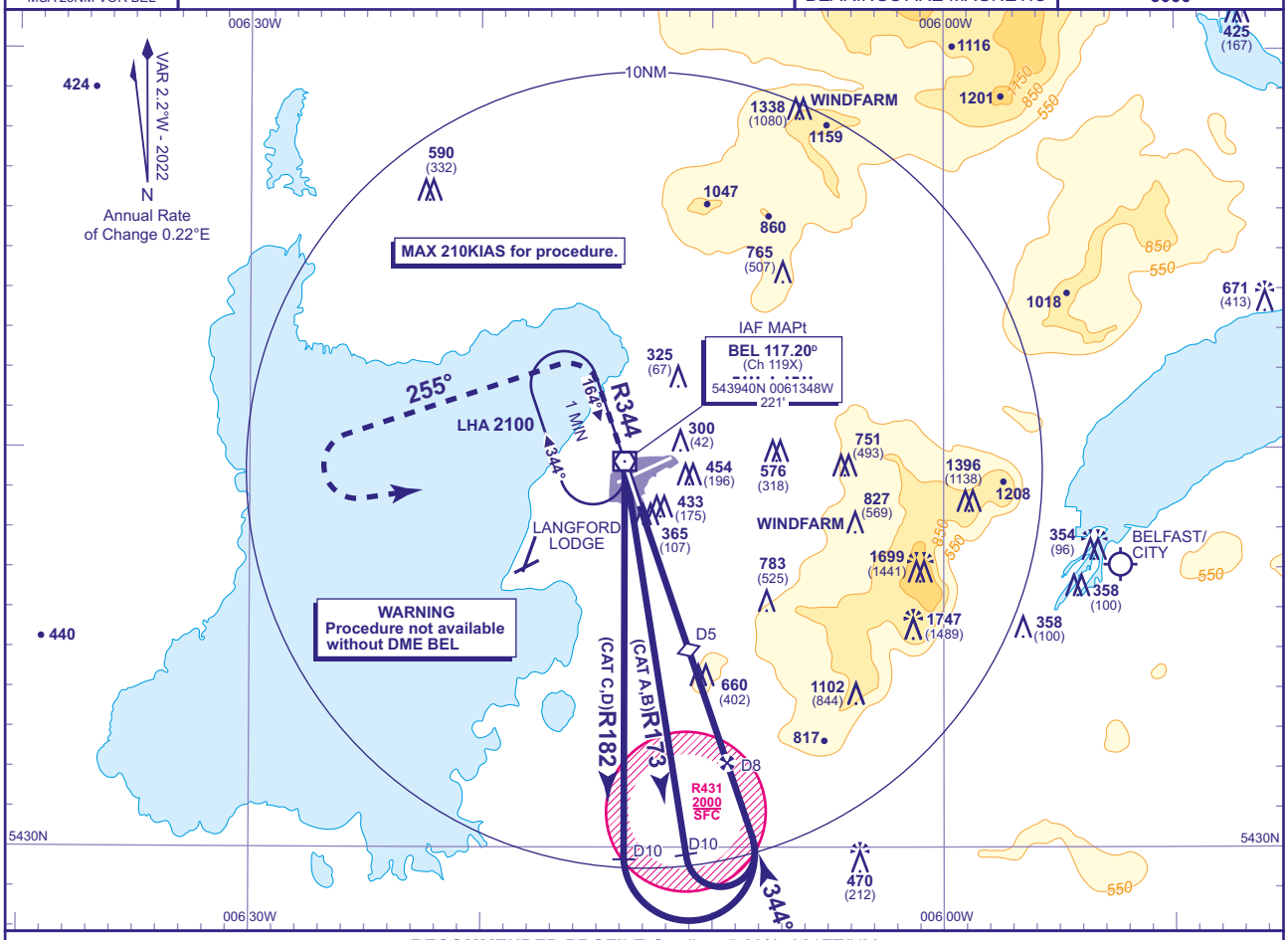
INSTRUMENT APPROACH CHART - ICAO

BELFAST ALDERGROVE VOR/DME RWY 35
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEL

APP	133.125	ALDERGROVE APPROACH	AD ELEVATION	268	TRANSITION ALTITUDE 6000
TWR	118.300	ALDERGROVE TOWER	THR ELEVATION	258	
RAD	120.905	ALDERGROVE DIRECTOR	OBSTACLE ELEVATION 1747 AMSL (1489) (ABOVE THR)		
ATIS	126.130	ALDERGROVE INFORMATION	BEARINGS ARE MAGNETIC		

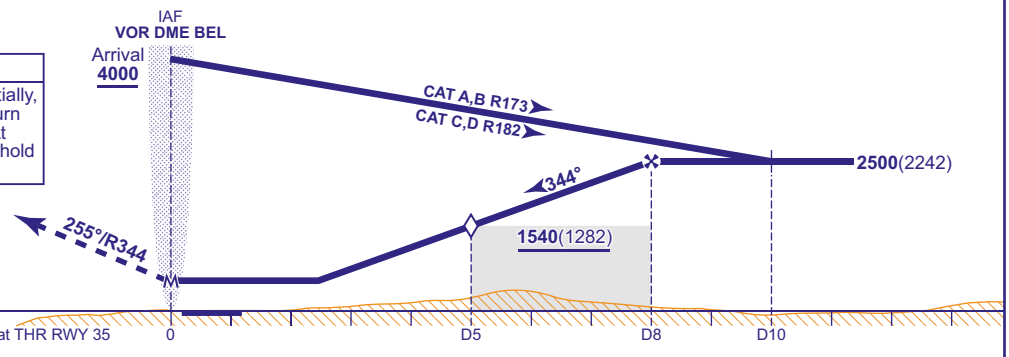


RECOMMENDED PROFILE Gradient 5.28%, 321FT/NM

DME BEL	7	6	5	4	3
ALT(HGT)	**2180**(1922)	**1860**(1602)	**1540**(1282)	**1220**(962)	**900**(642)

MAPt VOR DME BEL

Continuous climb to **3000**. Initially, straight ahead to **1300** then turn left onto track 255° to **3000**. At **3000** turn left to **VOR BEL** to hold at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**760**(502)	**760**(502)	**760**(502)	**760**(502)
VM(C)OCA (OCH AAL)	Total Area	**750**(482)	**840**(572)	**1180**(912)	**1290**(1022)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	530	430

NOTE Aircraft will normally be required to hold not lower than **3000** at VOR BEL.

CHANGE (5/25): NW MSA INCREASE.

AERO INFO DATE 14 FEB 25

AD 2-EGAA-8-13

Instrument Approach Procedure Coding Tables

Belfast Aldergrove RNP RWY 07 - Instrument Approach Procedure via SULEV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07L	001	IF	SULEV	N	-	-	4000	210	543924.44N 0063326.04W	IAF
R07L	002	TF	AA07I	N	157° (154.8°)	LEFT	2500	-	543453.39N 0062946.60W	IF 10.1NM
R07L	003	TF	AA07F	N	067° (064.9°)	-	2500	-	543609.64N 0062506.42W	FAF 7.1NM
R07L	004	TF	RW07	Y	067° (064.9°)	-	–	-	543908.12N 0061406.86W	MAPt
R07L	005	CA	-	-	067° (064.9°)	-	1200	210	-	At 1200 revert to conventional navigation

Belfast Aldergrove RNP RWY 07 - Instrument Approach Procedure via VAGMO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07C	001	IF	VAGMO	N	-	-	4000	210	543245.91N 0063732.93W	IAF 15.1NM
R07C	002	TF	AA07I	N	067° (064.9°)	-	2500	-	543453.39N 0062946.60W	IF 10.1NM
R07C	003	TF	AA07F	N	067° (064.9°)	-	2500	-	543609.64N 0062506.42W	FAF 7.1NM
R07C	004	TF	RW07	Y	067° (064.9°)	-	–	-	543908.12N 0061406.86W	MAPt
R07C	005	CA	-	-	067° (064.9°)	-	1200	210	-	At 1200 revert to conventional navigation

Belfast Aldergrove RNP RWY 07 - Instrument Approach Procedure via LIRGU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07R	001	IF	LIRGU	N	-	-	4000	210	543022.23N 0062607.97W	IAF
R07R	002	TF	AA07I	N	337° (334.9°)	RIGHT	2500	-	543453.39N 0062946.60W	IF 10.1NM
R07R	003	TF	AA07F	N	067° (064.9°)	-	2500	-	543609.64N 0062506.42W	FAF 7.1NM
R07R	004	TF	RW07	Y	067° (064.9°)	-	–	-	543908.12N 0061406.86W	MAPt
R07R	005	CA	-	-	067° (064.9°)	-	1200	210	-	At 1200 revert to conventional navigation

CHANGE (7/22: PAGE RENUMBERED.
AERO INFO DATE 19 APR 22

EGAC — BELFAST/CITY

EGAC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGAC — BELFAST/CITY

EGAC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 543705N Long: 0055221W Mid point of Runway 04/22
2	Direction and distance from city	East side of Belfast Docks.
3	Elevation / Reference temperature / Mean Low Temperature	15 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	184 FT
5	Magnetic Variation / Annual Change	2.00°W (2022) / 0.22°E
6	AD Administration Address Telephone Telefax AFS SITA	BELFAST CITY AIRPORT LTD. Belfast City Airport, Sydenham Bypass, Belfast BT3 9JH, Northern Ireland. +44 28-9093 9093 (Administration) +44 28-9093 9094 (Administration) EGACZTZX (ATC) Ground Ops: BHDAPXH.
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGAC AD 2.3 OPERATIONAL HOURS

1	AD Administration	0630-2130 (0530-2030) To cover the possibility of an aircraft which departs within 15 minutes of normal aerodrome closing time having to return, the aerodrome operator will normally retain sufficient services and equipment for 15 minutes after the actual time of departures.
2	Customs and immigration	Subject to notified movements
3	Health and sanitation	As AD Hours.
4	AIS Briefing Office	0630-2130 (0530-2030)
5	ATS Reporting Office (ARO)	0630-2130 (0530-2030)
6	MET Briefing Office	0630-2130 (0530-2030)
7	ATS	0630-2130 (0530-2030). See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	0530-2145 (0430-2045)
10	Security	H24
11	De-icing	As AD hours by arrangement.
12	Remarks	Operational Hours: Aerodrome closes at 2130 (2030). Aerodrome operational hours may be extended for scheduled flights by prior arrangement. Requests for extension of aerodrome hours must be made to the Airport Duty Manager, Tel: +44 28-9093 5053. Positioning and non-scheduled flights will not be accepted after 2130 (2030).

EGAC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full.
2	Fuel and oil types	AVTUR JET-A1 BP Aero Engine oils; Piston Type Engines; 80 - US Quarts, D80 - US Quarts - 205 lt Barrels, D100 - US Quarts - 205 lt Barrels
3	Fuelling facilities/capacity	
4	De-icing facilities	Contact based airlines.
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Contact based airlines.

7	Remarks	Mandatory handling for all aircraft. Swissport Tel: 028-9093 5038. Cargo: Worldwide Flight Services (WFS) Tel: 028-9093 5191. FBO: Jet Assist Tel: 028-9692 2668; 028-9692 2669; Email: belfastcityops@jetassist.co.uk.

EGAC AD 2.5 PASSENGER FACILITIES

1	Hotels	Available within 10 minutes drive.
2	Restaurants	Snack/coffee bars. Buffet.
3	Transportation	Buses, car hire and taxis. Nearest railway station 100 M.
4	Medical facilities	Limited facilities. Defibrillator located in the terminal building.
5	Bank and Post Office	Burea de change. Cash dispensers in the teminal.
6	Tourist Office	Tourist Information Centre in Terminal Building.
7	Remarks	

EGAC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 Higher category is not available.
2	Rescue equipment	1 - 4 x 4 Cobra Fire Fighting Appliance, 2 - 6 x 6 Fire Fighting Appliances, 10 x Inflatable matting.
3	Capability for removal of disabled aircraft	Contact: Tel: +44 28-9093 5027 (Airfield Operations)
4	Remarks	

EGAC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Chemical de-icing. 3 snow ploughs. 2 brush blowers. 2 surface de-icing rigs.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Snow Co-ordinating Officer, Tel: 07850-928015.

EGAC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	TERMINAL STANDS: 1 Surface: Concrete PCN 29/R/D/W/T TERMINAL STANDS: 10 Surface: Concrete PCN 29/R/D/W/T TERMINAL STANDS: 2 Surface: Concrete PCN 29/R/D/W/T TERMINAL STANDS: 21 Surface: Concrete PCN 30/R/D/W/T TERMINAL STANDS: 24 Surface: Concrete PCN 39/R/D/W/T TERMINAL STANDS: 3 Surface: Concrete PCN 48/R/D/W/T TERMINAL STANDS: 4 Surface: Concrete PCN 48/R/D/W/T TERMINAL STANDS: 5 Surface: Concrete PCN 48/R/D/W/T TERMINAL STANDS: 6 Surface: Concrete PCN 48/R/D/W/T TERMINAL STANDS: 7 Surface: Concrete PCN 48/R/D/W/T TERMINAL STANDS: 8 Surface: Concrete PCN 48/R/D/W/T TERMINAL STANDS: 9 Surface: Concrete PCN 29/R/D/W/T TERMINAL STANDS: VICTORIA Surface: Concrete PCN 30/R/D/W/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 18 M Surface: Asphalt PCN 50/F/D/W/T
3	Altimeter checkpoint location and elevation	Stands 1-10, 13 FT amsl - Victoria Apron, 10 FT amsl.
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Ground Movement/Parking/Docking Chart.
6	Remarks	

EGAC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1-10 and 24 are nose-in push-back only. Stands 1-3, 5-10 and 24 AGNIS and surface arrow stop signs. Stand 4 APIS. Stands 6A/7A are nose-in and have painted surface markings. Pilots must not enter any part of a stand unless the guidance has been activated or a marshaller is present at the head of the stand, this procedure allows a FOD check to take place on the designated stand (please note, it may not be possible to see guidance until turned onto the stand lead in line). Victoria apron (except Stand 24) is as directed by ATC/Marshallers.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 04/22: Displaced threshold markings and designators on Runway 04. Threshold markings and designators on Runway 22. Fixed distance markings and centre-line markings, Runway 04/22. Runways side stripes.
3	Stop bars and runway guard lights (if any)	Runway guard lights, Stop bars and internally illuminated signage at A1, A2 and A3 holding points.
4	Other runway protection measures	
5	Remarks	Two WDI (LGTD) 543721.21N 0055209.87W; 543643.47N 0055237.84W.

EGAC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAC11556) 22/APPROACH	INDUSTRIAL CHIMNEY	544328.18N 0054602.39W	675 FT	651 FT	Yes Red	Kilroot
(EGAC13698) 04/TAKE-OFF	TREE	543746.42N 0055121.96W	65 FT	57 FT	No	RWY 04 End
(EGAC13701) 04/TAKE-OFF	TREE	543744.83N 0055124.27W	45 FT	37 FT	No	Northeast of THR 22
(EGAC13713) 04/TAKE-OFF	TREE	543742.00N 0055124.45W	63 FT	50 FT	No	RWY 04 End
(EGAC10753) 04/TAKE-OFF	ILS CABIN	543736.30N 0055147.46W	20 FT	11 FT	No	RWY 04 End
(EGAC13728) 22/APPROACH	TREE	543736.09N 0055130.65W	77 FT	62 FT	No	East of THR 22
(EGAC10756) 04/TAKE-OFF	CONTROL BOX	543735.98N 0055147.78W	15 FT	6 FT	No	RWY 04 End
(EGAC13745) 22/TAKE-OFF	TREE	543731.64N 0055136.57W	75 FT	62 FT	No	East of THR 22
(EGAC6543) 04/APPROACH	HANGAR	543644.97N 0055301.87W	66 FT	57 FT	Yes Red	West of THR 04
(EGAC7423) 04/APPROACH	FENCE	543644.41N 0055256.84W	22 FT	14 FT	No	West of THR 04
(EGAC7421) 04/APPROACH	FENCE	543642.73N 0055258.23W	23 FT	14 FT	No	West of THR 04
(EGAC10763) 22/TAKE-OFF	ILS CABIN	543639.01N 0055255.40W	19 FT	12 FT	No	RWY 22 End
(EGAC10759) 22/TAKE-OFF	ILS CABIN	543638.77N 0055255.23W	19 FT	13 FT	No	RWY 22 End
(EGAC13484) 22/TAKE-OFF	BUSH	543638.60N 0055256.94W	23 FT	14 FT	No	Airport Southern Boundary
(EGAC13473) 04/APPROACH 22/ TAKE-OFF	TREE	543638.24N 0055256.38W	29 FT	19 FT	No	RWY 22 End
(EGAC8672) 22/TAKE-OFF	FENCE	543636.95N 0055249.15W	19 FT	11 FT	No	Airport Southern Boundary
(EGAC13547) 04/APPROACH	TREE	543635.16N 0055305.22W	53 FT	52 FT	No	Victoria Park
(EGAC13536) 04/APPROACH 22/ TAKE-OFF	TREE	543634.76N 0055303.42W	53 FT	52 FT	No	Victoria Park
(EGAC13545) 22/TAKE-OFF	TREE	543634.66N 0055305.27W	51 FT	47 FT	No	Victoria Park

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAC12892) 04/APPROACH	TREE	543633.30N 0055311.57W	73 FT	74 FT	No	Victoria Park
(EGAC13533) 22/TAKE-OFF	TREE	543632.85N 0055304.47W	59 FT	61 FT	No	Victoria Park
(EGAC13537) 04/APPROACH 22/ TAKE-OFF	TREE	543632.60N 0055305.75W	66 FT	68 FT	No	Victoria Park
(EGAC12576) 22/TAKE-OFF	TREE	543632.56N 0055253.50W	41 FT	37 FT	No	Victoria Park
(EGAC13539) 04/APPROACH 22/ TAKE-OFF	TREE	543632.35N 0055306.45W	65 FT	67 FT	No	Victoria Park
(EGAC13430) 04/APPROACH	TREE	543631.84N 0055249.45W	60 FT	55 FT	No	Victoria Park
(EGAC13458) 22/TAKE-OFF	TREE	543631.41N 0055254.92W	49 FT	51 FT	No	Victoria Park
(EGAC13463) 22/TAKE-OFF	TREE	543630.82N 0055255.76W	57 FT	60 FT	No	Victoria Park
(EGAC13457) 04/APPROACH 22/ TAKE-OFF	TREE	543630.70N 0055254.98W	55 FT	58 FT	No	Victoria Park
(EGAC13461) 04/APPROACH 22/ TAKE-OFF	TREE	543630.69N 0055255.38W	54 FT	57 FT	No	Victoria Park
(EGAC12871) 22/TAKE-OFF	TREE	543630.67N 0055308.99W	62 FT	64 FT	No	Victoria Park
(EGAC13466) 22/TAKE-OFF	TREE	543630.66N 0055256.32W	60 FT	63 FT	No	Victoria Park
(EGAC12852) 22/TAKE-OFF	TREE	543629.29N 0055308.20W	74 FT	76 FT	No	Victoria Park
(EGAC11280) 04/APPROACH 22/ TAKE-OFF	HV PYLON	543614.22N 0055327.38W	95 FT	84 FT	Yes Red	Sydenham Bypass, Oval
(EGAC9050) 04/APPROACH 22/ TAKE-OFF	HV PYLON	543606.97N 0055316.85W	127 FT	120 FT	Yes Red	South of Oval

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAC10808)	MAST	543912.90N 0055727.34W	1306 FT	130 FT	Yes Red	Collinward, North of Cave Hill
(EGAC6401)	CAIRN	543850.13N 0055651.45W	1172 FT	78 FT	No	Cave Hill
(EGAC11644)	TREE	543828.77N 0054827.06W	418 FT	56 FT	No	Creightons Green Road
(EGAC10809)	MAST	543828.44N 0055851.26W	1404 FT	178 FT	Yes Red	Squires Hill, West of Cave Hill
(EGAC13358)	WINDTURBINE SHIP CRANE	543741.66N 0055256.86W	459 FT	460 FT	Yes Red	Ship crane at Harbour D1 Wind Turbine Assembly Area
(EGAC13024)	TREE	543736.06N 0055057.63W	148 FT	83 FT	No	Airport Eastern Boundary
(EGAC11211)	MAST	543728.93N 0054828.49W	813 FT	166 FT	Yes Red	Ballykeel
(EGAC13754)	TREE	543726.72N 0055142.59W	67 FT	56 FT	No	Airport Eastern Boundary
(EGAC6611)	GP22 MAST	543723.97N 0055206.68W	46 FT	36 FT	Yes Red	Airfield
(EGAC11212)	MAST	543719.42N 0054734.23W	754 FT	138 FT	Yes Red	East of Ballykeel
(EGAC8303)	NDB	543716.09N 0055218.87W	58 FT	41 FT	No	Airfield
(EGAC8599)	MAST	543711.86N 0054949.61W	724 FT	160 FT	Yes Red	North of Stormont

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAC8695)	FLOODLIGHT	543710.53N 0055204.01W	22 FT	11 FT	No	Airport Eastern Boundary
(EGAC8598)	MAST	543710.35N 0054926.22W	742 FT	144 FT	Yes Red	North of Stormont
(EGAC12000)	DOCK CRANE	543710.12N 0055337.96W	353 FT	344 FT	Yes Red	Belfast Docks
(EGAC11210)	MAST	543702.89N 0054837.93W	733 FT	142 FT	Yes Red	South of Ballykeel
(EGAC8593)	MAST	543700.15N 0054457.67W	834 FT	136 FT	Yes Red	Northeast of Dundonald
(EGAC8594)	MAST	543657.96N 0054501.21W	817 FT	118 FT	Yes Red	Northeast of Dundonald
(EGAC8356)	GP04 MAST	543654.09N 0055244.46W	64 FT	50 FT	Yes Red	Airfield
(EGAC8608)	MAST	543639.80N 0060105.15W	1702 FT	151 FT	Yes Red	Divis
(EGAC11171)	HW MINI CRANE	543633.00N 0055349.41W	355 FT	347 FT	Yes Red	Harland and Wolff Crane
(EGAC8125)	MAST	543628.19N 0060028.55W	1696 FT	511 FT	Yes Red	Black Mountain
(EGAC8126)	MAST	543627.01N 0060033.60W	1699 FT	517 FT	Yes Red	Black Mountain
(EGAC13798)	BUILDING LADDER	543617.22N 0055512.59W	245 FT	238 FT	Yes Red	Donegall Quay
(EGAC11168)	HW MINI CRANE	543615.55N 0055415.12W	324 FT	316 FT	Yes Red	Harland and Wolff Crane
(EGAC11194)	BG MAST	543542.40N 0055554.46W	310 FT	300 FT	Yes Red	Bedford Street
	CRANE	543531.04N 0055555.08W	347 FT	334 FT	Yes Steady red	Dublin Road, Belfast. End estimated January 2026.
(EGAC2234)	INDUSTRIAL CHIMNEY	543516.23N 0055634.25W	358 FT	315 FT	No	Belfast City Hospital
(EGAC8605)	MAST	543513.38N 0060119.43W	1747 FT	770 FT	Yes Red	Black Hill Quarry

EGAC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	BELFAST/CITY
10	Additional information (limitation of service, etc.)	Unverified automatic MET observations are available on ATIS (124.580 MHz) or by telephone on +44 28-9093 5124 outside of aerodrome/ATC hours.

EGAC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
04	034.76°	1829 x 45 M	RWY surface: Asphalt, Grooved PCN 69/F/D/W/T	543643.34N 0055247.14W 184.2 FT	THR 13.1 FT TDZ 15.3 FT	
22	214.77°	1829 x 45 M	RWY surface: Asphalt, Grooved PCN 69/F/D/W/T	543729.48N 0055151.95W 184.2 FT	THR 12.1 FT TDZ 13.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	200 x 150 M	1949 x 300 M				RWY 04 Threshold displaced by 91 M. Has 7.5 M wide shoulders. OFZ: Yes.
	150 x 150 M	1949 x 300 M				RWY 22 Has 7.5 M wide shoulders. OFZ: Yes.

EGAC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
04	1829 M	2029 M	1829 M	1737 M	
22	1767 M	1917 M	1767 M	1767 M	

EGAC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
04	One crossbar 289 M from threshold. 413 M Light intensity high	Green Light intensity high Uni-directional With elevated wingbars	PAPI Left/3° 43 FT 250 M		Colour coded 15 M spacing Light intensity high	HI elevated bi-directional with LI omni-directional component	Red		EDGE: Prior to Runway 04 displaced painted threshold, these lights show red in the direction of the approach.
22	Coded with five crossbars. 914 M Light intensity high	Green Light intensity high Uni-directional With flush wingbars	PAPI Left/3° 53 FT 317 M		Colour coded 15 M spacing Light intensity high	HI elevated bi-directional with LI omni-directional component	Red		

EGAC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	LDI: 04: Right of 04 threshold (LGTD). 22: Near GP aerial (LGTD). Anemometer: 2x (LGTD) - 543654.99N 0055243.98W; 543723.69N 0055207.36W.
3	TWY edge and centre line lighting	CL: Green centre-line lighting on taxiway Alpha. Green/Amber colour coded lead on/off lighting at A1, A2 and A3 entry/exit points, spaced at 15 M on taxiway.
4	Secondary power supply/switch-over time	Yes/1 second
5	Remarks	Apron floodlighting.

EGAC AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGAC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BELFAST/CITY CTR 543121N 0060219W - 544431N 0054635W - 544048N 0053721W - 542739N 0055306W - 543121N 0060219W	Upper limit: 2000 FT ALT Lower limit: SFC	D	BELFAST APPROACH English	6000 FT		To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BELFAST/CITY ATZ A circle, 2 NM radius, centred at 543705N 0055221W on longest notified runway (04/22)	Upper limit: 2000 FT AGL Lower limit: SFC	D G	BELFAST APPROACH English	6000 FT		

EGAC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	BELFAST APPROACH	130.850 DOC 40 NM/ 15,000 FT.			0630-2130 (0530-2030).	ATZ hours coincident with Approach hours.
TWR	BELFAST TOWER	122.830 DOC 25 NM/4,000 FT.			0630-2130 (0530-2030).	
RADAR	BELFAST RADAR	134.800 DOC 40 NM/ 15,000 FT.			0630-2130 (0530-2030).	
ATIS	BELFAST INFORMATION	124.580 DOC 60 NM/ 20,000 FT.			0630-2130 (0530-2030).	Arrivals ATIS
OTHER	BELFAST FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	BELFAST EMERGENCY	121.500 Emergency frequency.			O/R	

EGAC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.04°W (2027)	IHBD	108.100 MHz	HO	543736.23N 0055143.89W		(RWY 04)
ILS/GP	IHBD	334.700 MHz	HO	543654.05N 0055244.50W		
ILS/LOC I 1.04°W (2027)	IBFH	108.100 MHz	HO	543638.42N 0055253.02W		(RWY 22) Caution due to terrain effect on LOC RWY 22, pilots may not receive full scale fly right indications.
ILS/GP	IBFH	334.700 MHz	HO	543724.00N 0055206.67W		3° ILS Ref Datum Hgt 50 FT.
NDB (L) 1.04°W (2027)	HB	420.000 kHz	0630-2130 (0530-2030) and by arrangement.	543716.09N 0055218.87W		On AD. Range 15 NM. Excessive needle swings may occur during the approach to Runway 04 between 1.5 NM and 1.0 NM from threshold.
ILS/DME	IBFH	18X 108.100 MHz	HO	543710.29N 0055229.94W	29 FT	(RWY 22) On AD. DME freq paired with ILS I-BFH and I-HBD. Zero range is indicated at THR. DME range errors up to 0.3 NM may be experienced outside 20 degrees right of the centre-line.
ILS/DME	IHBD	18X 108.100 MHz	HO	543710.29N 0055229.94W	29 FT	(RWY 04) On AD. DME freq paired with ILS I-HBD and I-BFH. Zero range is indicated at THR. DME unlocks and range errors of up to 0.5 NM may be experienced outside 10 degrees left of centre-line.

EGAC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Belfast City Airport is only available to noise certified Chapter lll aircraft except in emergency or diversion.
b) Ground running of aircraft engines shall be subject to the approval of the aerodrome authority. No ground running of engines is permitted between 2230-0600 (2130-0500).
c) Use of the aerodrome by aircraft not able to communicate with ATC subject to prior permission.

2 GROUND MOVEMENT

a) Aircraft shall not enter a stand until stand entrance guidance is activated or marshalling assistance is available on stand. If neither is available crew shall stop on short on stand centre-line and request (via ATC) that the stand be activated.

3 CAT II/III OPERATIONS

a) Belfast City Airport is not equipped for CAT II/III operations, however Low Visibility Procedures are used to protect CAT I operations.
b) Low Visibility Procedures will commence when RVR/Met visibility falls to 800 M or less, or cloud ceiling is observed to be 200 FT or less.
c) Pilots will be informed when these procedures are in operation by ATIS or by RTF.

4 WARNINGS

a) Aircraft assembly hangar on the northwest side of the runway, infringes transitional surface by 2.84 M, 269 M from the runway centre-line.
b) Pilots should anticipate windshear on approach to Runway 22 and departure from Runway 04 when the surface wind direction is between 100° and 160° + 15 KTS. Due to strong wind conditions, turbulence may be expected on approach or climb out to/from either runway.
c) Pilots are warned of the presence of greylag geese in the vicinity of the Aerodrome. The geese normally transit between the north-east of the Aerodrome and Victoria Park which is below the 04 Approach. Geese movements are typically at dawn and dusk and at an altitude

of approximately 50-100 FT AGL. Aerodrome Bird Dispersal, including the use of pyrotechnics, is in operation during Aerodrome operational hours.

d) HT pylons 115 FT AAL 0.66 NM from threshold of Runway 04.
e) High ground rising to 644 FT AMSL within 2.4 NM to the East and South.
f) High ground rising to 1227 FT AMSL 3.9 NM to the West and Northwest.
g) Floating cranes and shipping in Belfast Harbour.
h) Three cranes (Lgtd), 250 FT AAL 1 NM West of the aerodrome.
i) Two chimneys (Lgtd) 250 FT AAL 1 NM West of the aerodrome.
j) ILS Glide Path and Precision Approach Path Indicators (PAPI) - Runway 04 only: With a certain combination of aircraft type and antenna configuration, there is potential for crews to observe a small discrepancy between indications from the ILS Glide Path and PAPI on Runway 04. Both of these approach path guidance systems are within published tolerance limits and are regularly flight checked for compliance and accuracy.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Arrivals; Runway 22 is the preferred landing runway. Departures; Runway 04 is the preferred departure runway.

7 TRAINING

a) Training flights by prior arrangement only.

EGAC AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

Every operator of aircraft using, or intending to use the Aerodrome shall ensure at all times that aircraft are operated in such a manner calculated to cause the least disturbance practicable to areas surrounding the Airport. These procedures may only be departed from to the extent necessary to avoid immediate danger or in compliance with ATC instructions. Operators of all aircraft are required to conform with the following procedures.

2 TAKE-OFF, CLIMB AND GO AROUND

Aircraft operators shall instigate their aircraft manufacturers Noise Abatement recommended procedures on departure and up to FL 100, or the procedures listed below:

a) Take off to 1500 FT

Power	—	Normal take off
Speed	—	V2 + 10 KT(+)
Flaps	—	Set as appropriate

b) 1500 to 3000 FT

Power	—	Reduced to Climb Thrust
Speed	—	V2 + 10 KT(+)
Flaps	—	Maintain previous setting

Note: *V2 + 10 KT (+) indicates that V2 + 10 KT may be exceeded where pitch angle or specific aircraft characteristic are possible limiting factors;*

c) At 3000 FT retract flaps on schedule and assume normal en-route climb (subject to individual ATC Clearance).

d) 3000 FT to FL 100 - max climb speed 250 KT or as instructed.

3 DEPARTURES

a) **Runway 04**

i. **All Jet Aircraft**

On passing 500 FT QNH, left turn TRACK 033°M and climb to altitude 3000 FT QNH before turning. Thereafter as per ATC Clearance.

ii. **Propeller Aircraft greater than 13,000 KG MTOW**

On passing 500 FT QNH, left turn TRACK 033°M and climb to altitude 2000 FT QNH before commencing turn. Thereafter as per ATC Clearance.

iii. **Propeller Aircraft 13,000 KG MTOW or less**

On passing 500 FT QNH, left turn TRACK 033°M and climb to altitude 1500 FT QNH before commencing turn. Thereafter as per ATC Clearance.

b) **Runway 22**

i. **All Jet Aircraft**

Climb straight ahead to altitude 3000 FT QNH before turning, thereafter as per the clearance issued by ATC.

ii. **Propeller Aircraft greater than 13,000 KG MTOW**

Climb straight ahead to altitude 2000 FT QNH before turning, thereafter as per the clearance issued by ATC.

iii. **Propellor Aircraft 13,000 KG MTOW or less**

Climb straight ahead to altitude 1500 FT QNH before turning, thereafter as per the clearance issued by ATC.

4 ARRIVALS

a) **Arriving Aircraft**

i. Radar vectored or instrument approaches will be conducted at altitudes consistent with the RVA or appropriate approach chart. Radar assigned levels on base leg Runway 22 will be 2500 FT until aircraft have coasted out.
ii. Aircraft landing without assistance from glidepath shall descend in accordance with the recommended profile provided in the UK AIP Instrument Approach Charts.

b) **Visual Approaches**

i. Runway 22 – Aircraft are to establish on the 7 DME arc (I-BFH) and coast out not below 2500 FT QNH before establishing on the final approach track at not less than 5 DME.

c) **Runway 04**

i. Descent profiles shall be optimised to establish on the final approach track at 5 NM not below 1500 FT.
ii. Aircraft downwind left Runway 04 are exempt from the above restriction if the flight path avoids residential areas.
iii. It is recommended that aircraft making an approach to Runway 04 shall follow a descent profile which will not result in it being at any time lower than the approach path which would be flown during an ILS GP approach.

EGAC AD 2.22 FLIGHT PROCEDURES

1 ALTIMETER SETTING

a) Pilots flying beneath the Belfast TMA below the Transition Altitude (6000 FT) should use the QNH of an aerodrome situated within the lateral limits of the TMA; except that the aerodrome QFE may be used when flying within the circuit.

2 PROCEDURES FOR INBOUND AIRCRAFT

a) **Clearance to Enter the Belfast TMA**

i. Aircraft flying on the Airways System will be cleared into the Belfast TMA without having to request a specific entry clearance.
ii. Aircraft wishing to enter the TMA from the open FIR, whether IFR or VFR, must obtain clearance from Belfast Approach Control if joining from the south or east, or from Aldergrove Approach Control if joining from other directions.

b) **Standard Routes**

i. The standard initial routes for inbound aircraft, which are shown in the table below, may be varied at the discretion of ATC (eg for traffic reasons or to allow traffic to be sequenced by radar).

Approach from	Via	Route
NE	P600	BLACA - MAGEE
E	FIR	BLACA/TMA Boundary - MAGEE or HB as directed by 'Belfast Approach'

Approach from	Via	Route
SE	L10 (RNAV 5 FL 75 and above)	IOM - NELBO - MAGEE
	L10 (Below FL 75)	IOM - RINGA - MAGEE
	UP6/L46 (RNAV 5)	REMSI - MASOP - NELBO - MAGEE
	M148 (RNAV 1 FL 255 and above)	REMSI - NINEB - MASOP - IDGAS - IBTES - LIMKA - MAGEE
	M146 (RNAV 1 FL 195 and below)	ERDUV - LUSOD - PEPEG - ROBOP - MAGEE
	M146 - Z198 - M148 (RNAV 1 FL 195-FL 255)	ERDUV - MASOP - IDGAS - IBTES - LIMKA - MAGEE
S	N34	NEVRI - ABSUN - MAGEE
SW, W, NW and N	FIR	TMA Boundary - MAGEE or HB as directed by 'Belfast Approach'

Note: *See also UK Standard Route Document. Available online from NATS/AIS website: http://www.nats.aero/ais.*

c) Holding

i. The primary holding patterns at NDB(L) HB and MAGEE (544730N 0053630W) are detailed on the Instrument Approach charts.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) The standard routes for outbound aircraft are detailed in the following table. Routes may be varied at ATC discretion according to prevailing traffic conditions. **Pilots are reminded that strict adherence to noise abatement procedures (see AD 2.21) is required PRIOR to following subsequent routing instructions.**

Departing to	Via	Runway	Route
SE	L10/L15/Q38/Q39 (FL 75 and above)	04	Right turn DCT DUFFY
		22	Left turn DCT DUFFY
	L10 (Below FL 75)	04	Right turn - DCT - RINGA
		22	Left turn - DCT - RINGA
S	P620	04	Right turn - DCT - NUMPI
		22	Left turn - DCT - NUMPI
N	P600	04	Right turn - DCT - BLACA
		22	Left turn - DCT - BLACA

Note: *See also UK Standard Route Document. Available online from NATS/AIS website: http://www.nats.aero/ais.*

b) North Atlantic Jet Departures

i. Due to the proximity of the Shanwick Oceanic boundary to Belfast City, pilots must consider timescales for submitting an 'RCL'. Refer to ENR 2.2, paragraph 3.8.2 for details.

c) Belfast City Departures Via IOM - Speed Profile

i. Traffic departing Belfast City via L15/Q39 with a requested level of FL 290 or above is required to cross SOSIM/INKOB at FL 290 or above. To ensure that these aircraft can achieve the required level by SOSIM/INKOB, speed restrictions are to be observed.
ii. All Belfast City departures to the south-east with a requested flight level of FL 290 or above, are to fly in accordance with the following maximum speeds:

1. Jet traffic with a MTOW greater than 35000 KG Max 250 KT IAS until FL 100, then Max 290 KT IAS until FL 250;
2. Jet traffic with a MTOW less than 35000 KG and all non jet traffic; Max 250 KT IAS until above FL 250.

iii. Aircraft unable to reach FL 290 by SOSIM/INKOB must advise Belfast City prior to push-back, giving the anticipated flight level at SOSIM/INKOB.

4 ROYAL VICTORIA HOSPITAL (RVH) & MUSGRAVE PARK HOSPITAL (MPH) OPERATIONS

a) The RVH is located within Class G Airspace immediately adjacent to Belfast City CTR (Class D); MPH is located within the Belfast City (Class D) CTR.

Pilots of aircraft operating to/from the RVH or MPH should be aware of the potential for conflictions and/or TCAS events to occur with aircraft operating to/from Belfast City Airport. To reduce conflictions, the following procedures apply:

i. **RVH Helipad**

1. **RVH - Inbound.** Due to the proximity of CAS to the East, Pilots are strongly advised to establish two-way communications with Belfast City and, if required, request a CTR entry clearance.

2. **RVH - Outbound.** Pilots are strongly advised to call Belfast Tower on 122.830 MHz when on the Helipad; if unable to establish two-way communications contact Belfast Approach on 130.850 MHz.

ii. **MPH Helipad**

1. **MPH - Inbound.** Pilots are to establish two-way communications with Belfast City requesting a CTR entry clearance.
2. **MPH - Outbound.** When inbound, pilots will be issued with departure instructions as follows: Call Belfast Approach on 130.850 MHz when on the ground, if unable to establish two-way communications, lift low-level to the West of the M1 Motorway departing the CTR, and establish two-way communication.

b) Outside of Belfast City operating hours a Basic Service may be available from Aldergrove Radar on 133.125 MHz.

5 VISUAL REFERENCE POINTS (VRP)

a) To facilitate the integration of VFR flights within the Belfast Airspace, pilots may be required to join/leave the airspace via specified VRPs.
b) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

6 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside, Belfast/City controlled airspace within the area defined below and maintaining a listening watch only on Belfast Approach frequency, 130.850 MHz, are encouraged to select SSR code 4255:

545930N 0051542W - 545548N 0052800W -
545656N 0055417W - 543833N 0055732W -
thence clockwise by the arc of a circle radius 9 NM centred on 543927N 0061257W to
543233N 0060302W - 542135N 0061619W -
540707N 0060015W - 540520N 0055140W -
542050N 0052650W - 545410N 0051030W -
545930N 0051542W.

b) Selection of 4255 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the controlled airspace at all times.
c) Whilst squawking 4255 pilots should be aware that Belfast Approach may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 4255 shall be deselected.

EGAC AD 2.23 ADDITIONAL INFORMATION

a) An obstacle free distance of approximately 93 M exists from the end of the paved surface at the southwest end of the runway up to the location of the Runway 22 localiser.
b) A further obstacle free distance of approximately 15 M exists from the Runway 22 localiser to the non-frangible aerodrome boundary fence, beyond which there is a steep-angled drop of several metres down to a tidal lagoon.

EGAC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGAC-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGAC-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGAC-5-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 04 (CAT A,B,C) - ICAO
AD 2.EGAC-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 04 (CAT A,B,C) - ICAO
AD 2.EGAC-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 04 (CAT A,B,C) - ICAO
AD 2.EGAC-8-3
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 22 (CAT A,B,C) - ICAO
AD 2.EGAC-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 22 (CAT A,B,C) - ICAO
AD 2.EGAC-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 22 (CAT A,B,C) - ICAO
AD 2.EGAC-8-6

EGAC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 543705N 0055221W

AD ELEV 15FT

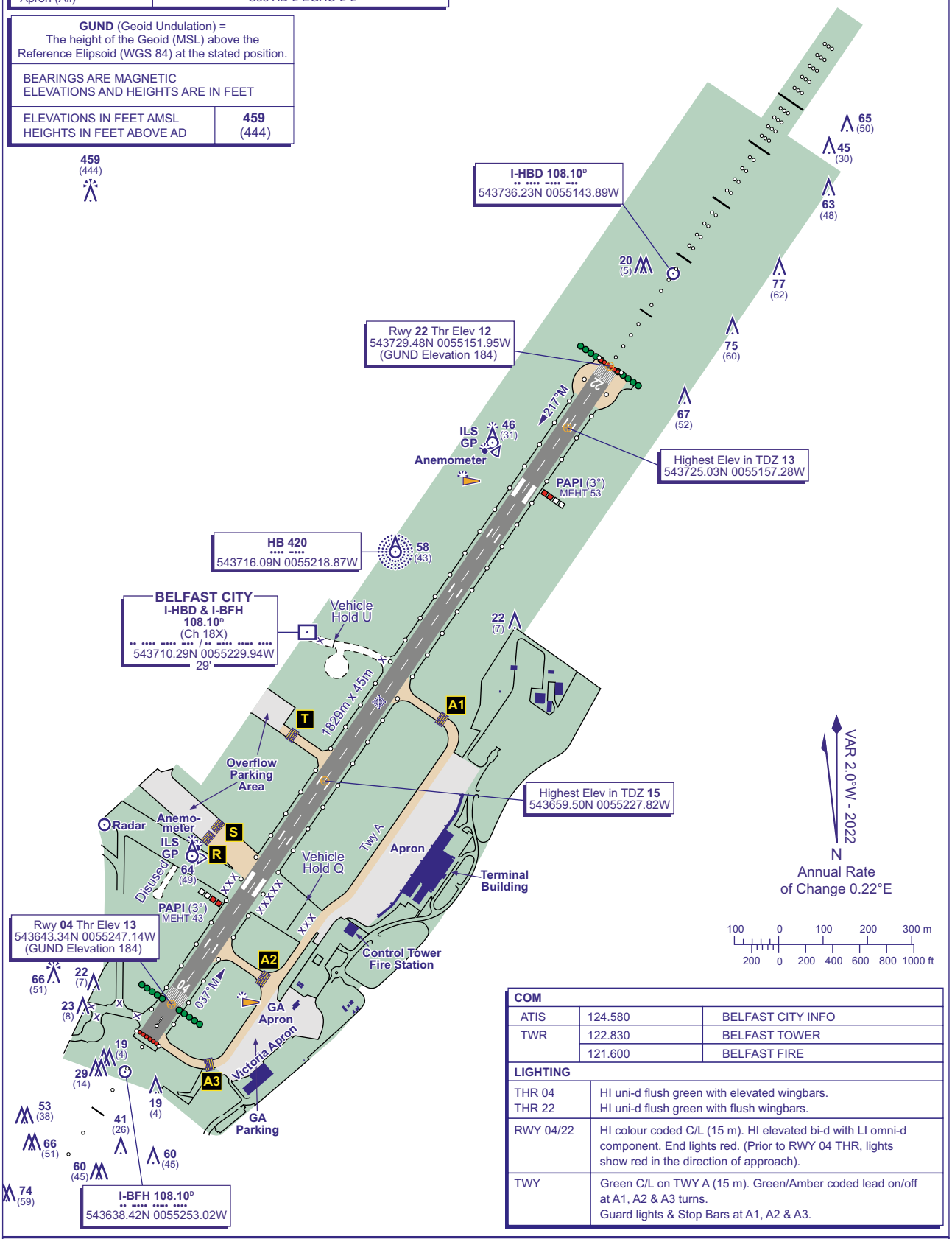
BELFAST CITY
EGAC

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**BEARING STRENGTH**
RWY 04/22	Grooved Asphalt	69/F/D/W/T
TWY A	Asphalt	50/F/D/W/T
Apron (All)	*See AD 2-EGAC-2-2*	

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**459** (444)



COM		
ATIS	124.580	BELFAST CITY INFO
TWR	122.830	BELFAST TOWER
	121.600	BELFAST FIRE

LIGHTING	
THR 04 THR 22	HI uni-d flush green with elevated wingbars. HI uni-d flush green with flush wingbars.
RWY 04/22	HI colour coded C/L (15 m). HI elevated bi-d with LI omni-d component. End lights red. (Prior to RWY 04 THR, lights show red in the direction of approach).
TWY	Green C/L on TWY A (15 m). Green/Amber coded lead on/off at A1, A2 & A3 turns. Guard lights & Stop Bars at A1, A2 & A3.

CHANGE (3/25): OBSTACLES. ANEMOMETER RMEOVED. EDITORIAL.

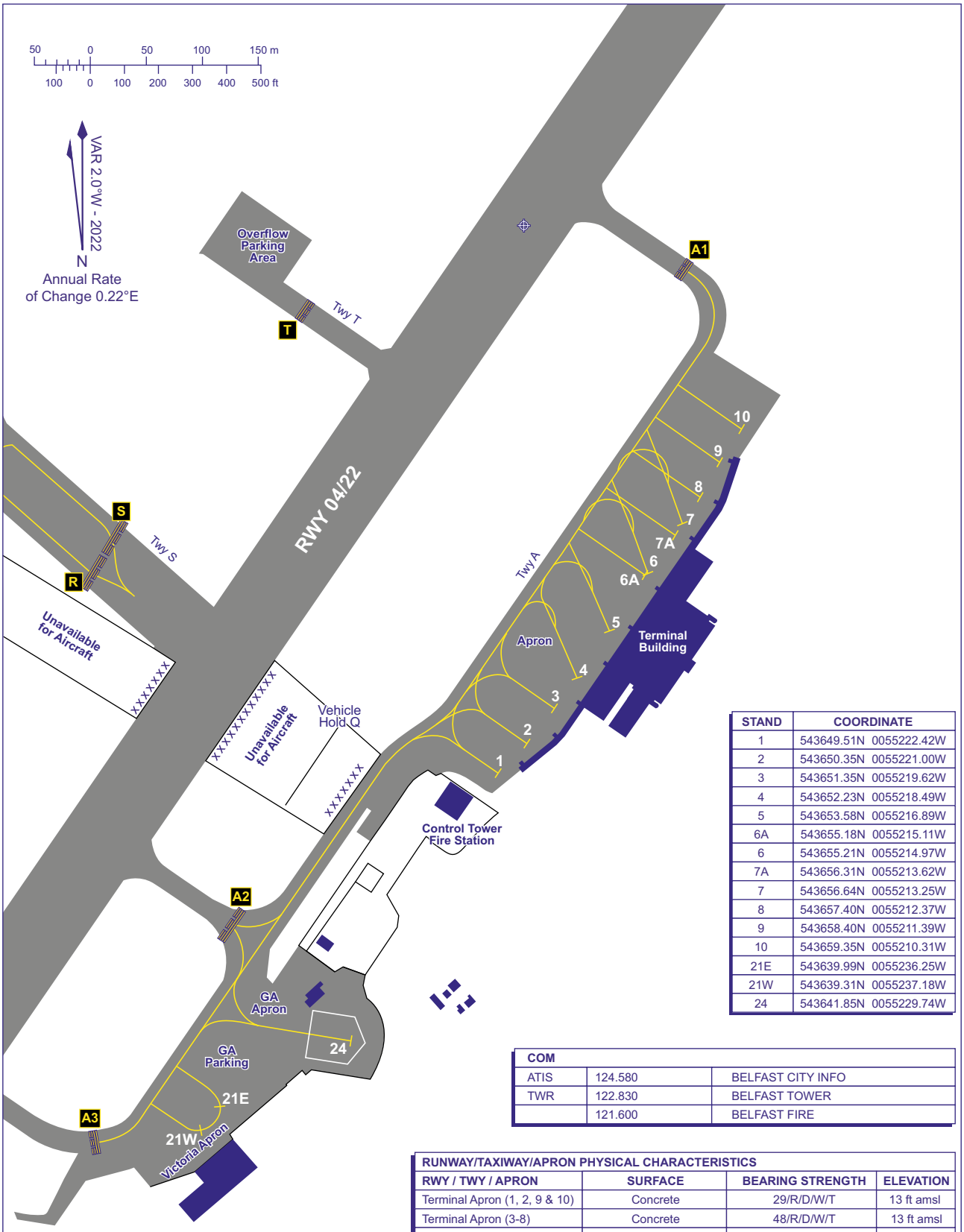
AERO INFO DATE 08 JAN 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 543705N 0055221W

AD ELEV 15FT

BELFAST/CITY
EGAC



STAND	COORDINATE
1	543649.51N 0055222.42W
2	543650.35N 0055221.00W
3	543651.35N 0055219.62W
4	543652.23N 0055218.49W
5	543653.58N 0055216.89W
6A	543655.18N 0055215.11W
6	543655.21N 0055214.97W
7A	543656.31N 0055213.62W
7	543656.64N 0055213.25W
8	543657.40N 0055212.37W
9	543658.40N 0055211.39W
10	543659.35N 0055210.31W
21E	543639.99N 0055236.25W
21W	543639.31N 0055237.18W
24	543641.85N 0055229.74W

COM		
ATIS	124.580	BELFAST CITY INFO
TWR	122.830	BELFAST TOWER
	121.600	BELFAST FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	BEARING STRENGTH	ELEVATION
Terminal Apron (1, 2, 9 & 10)	Concrete	29/R/D/W/T	13 ft amsl
Terminal Apron (3-8)	Concrete	48/R/D/W/T	13 ft amsl
Victoria Apron (21)	Concrete	30/R/D/W/T	10 ft amsl
GA Apron (24)	Concrete	39/R/D/W/T	-
RWY	*See AD 2-EGAC-2-1*		
TWY (All)			

CHANGE (3/25): STANDS 1 - 3 COORDS & CENTRELINES. EDITORIAL.

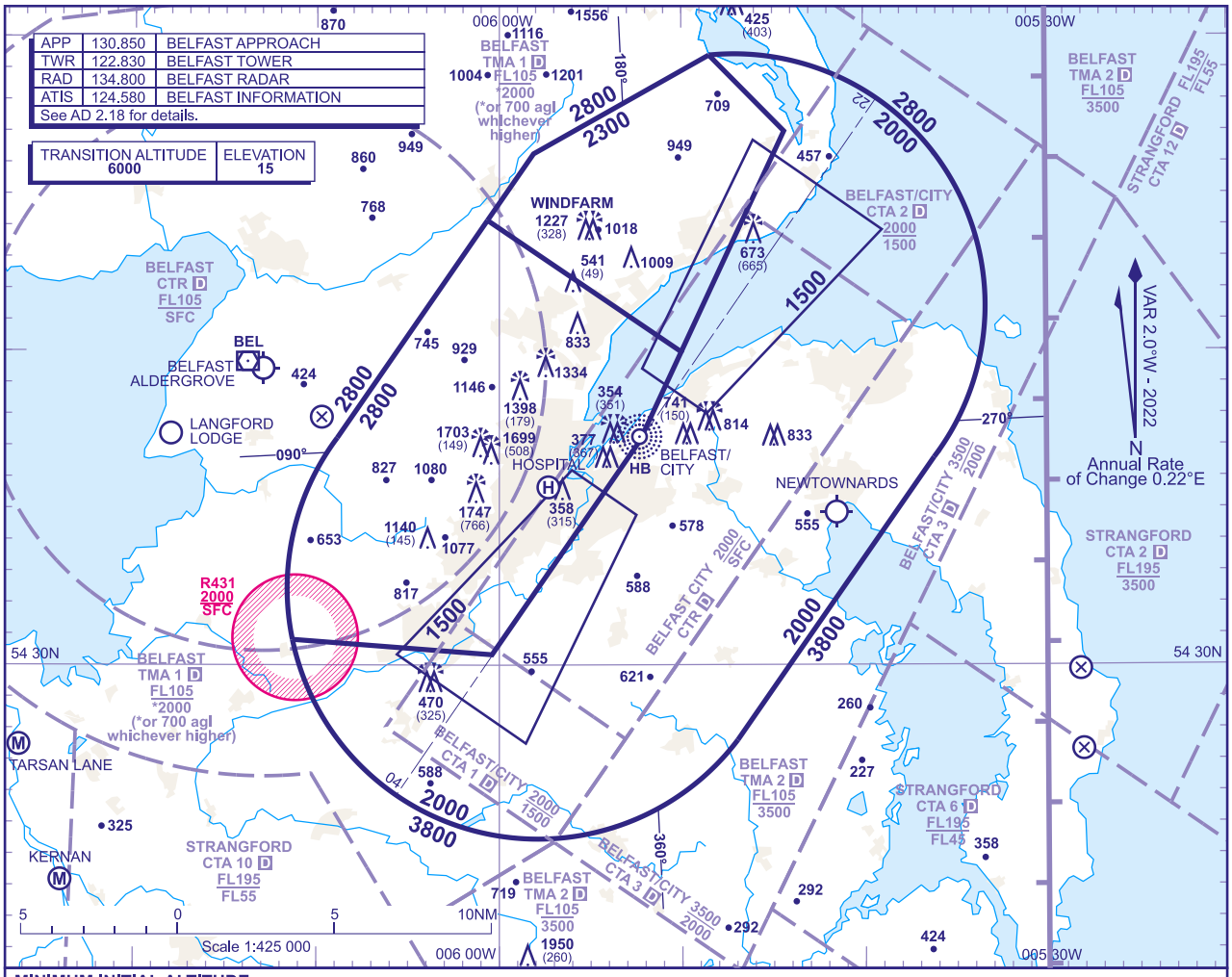
AERO INFO DATE 02 JAN 25

AD 2-EGAC-2-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1950
HEIGHTS IN FEET AGL (260)

BELFAST/ CITY



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2000** in the sector defined by the lateral limits; 544924N 0054828W thence clockwise by an arc of a circle radius 8NM centred on 544127N 0054707W to 543636N 0053610W - 542737N 0054658W thence clockwise by an arc of a circle radius 8NM centred on 543227N 0055753W to 543049 0061119W - 543020N 0060024W - 543708N 0055218W - 544659N 0054421W - 544924N 0054828W.

b) **2300** in the sector defined by the lateral limits; 544924N 0054828W - 544659N 0054421W - 543958N 0055001W - 544409N 0060039W - 544616N 0055807W - 544924N 0054828W.

c) **2800** in the sector defined by the lateral limits; 544409N 0060039W - 543958N 0055001W - 543708N 0055218W - 543020N 0060024W - 543049N 0061119W thence clockwise by an arc of a circle radius 8NM centred on 543227N 0055753W to 543714N 0060853W - 544409N 0060039W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2900**, or last assigned level if higher to **NDB(L) HB**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) HB**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be Issued If the aircraft Is either establlshed on the flnal approach track or on an Intercept of 40° or less, and In the case of Instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 23 JAN 25

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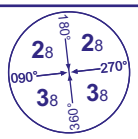
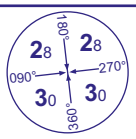
INSTRUMENT APPROACH CHART - ICAO

BELFAST CITY
ILS/DME/NDB(L)
RWY 04
(ACFT CAT A,B,C)



MSA 25NM NDB(L) HB

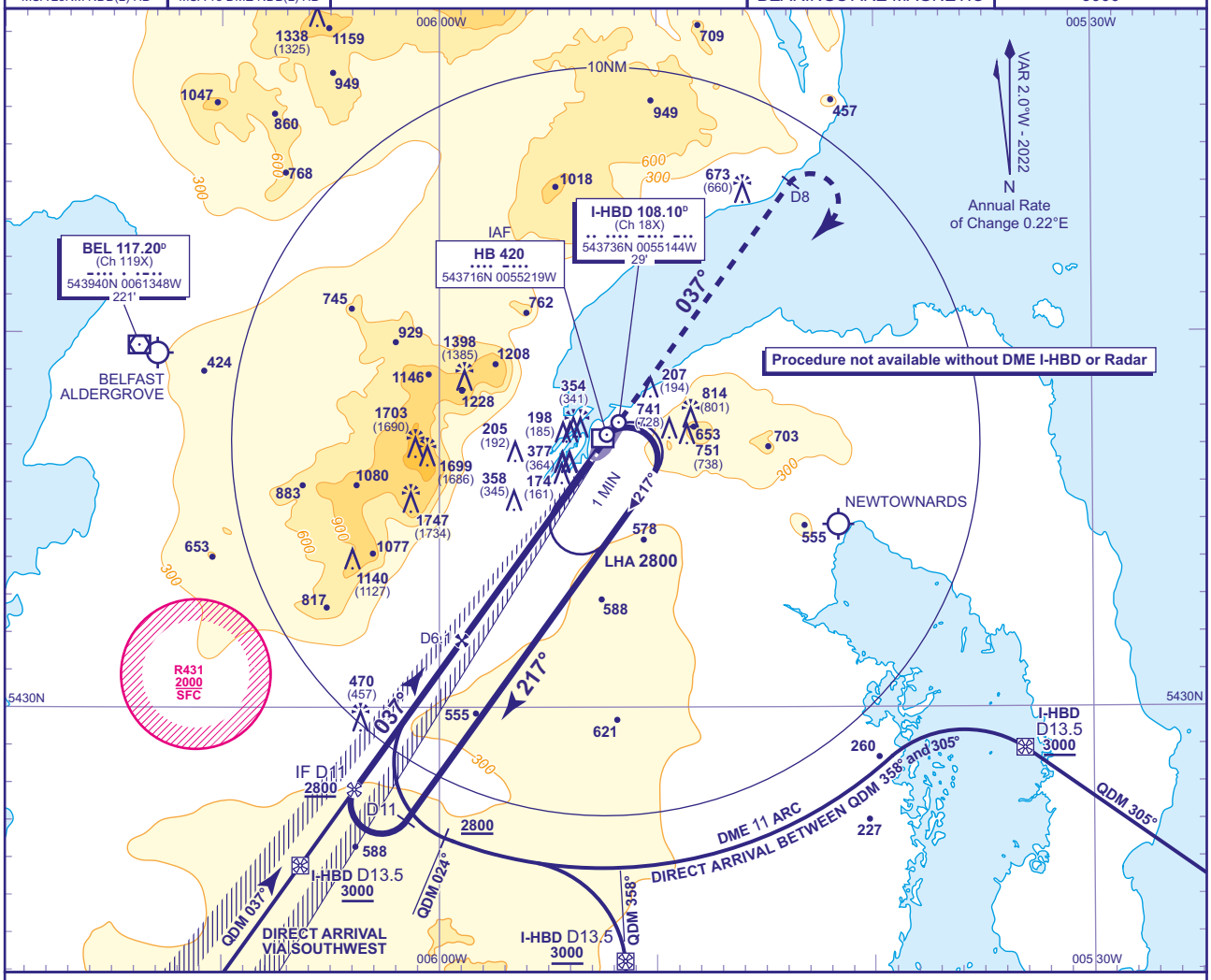


MSA 15 DME NDB(L) HB

APP	130.850	BELFAST APPROACH	
TWR	122.830	BELFAST TOWER	
RAD	134.800	BELFAST RADAR	
ATIS	124.580	BELFAST INFORMATION	

AD ELEVATION	15
THR ELEVATION	13
OBSTACLE ELEVATION	1744 AMSL (1731) (ABOVE THR)
BEARINGS ARE MAGNETIC	

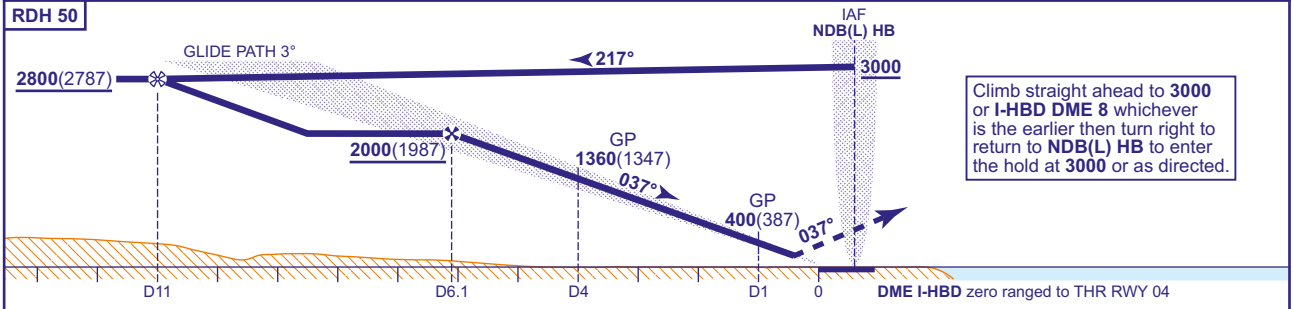
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDEPATH 3.0°, 320FT/NM

DME I-HBD	6	5	4	3	2	1
ALT(HGT)	**1990**(1977)	**1670**(1657)	**1360**(1347)	**1040**(1027)	**720**(707)	**400**(387)

RDH 50



Climb straight ahead to **3000** or **I-HBD DME 8** whichever is the earlier then turn right to return to **NDB(L) HB** to enter the hold at **3000** or as directed.

Aircraft Category		A	B	C
OCA (OCH)	CLIMB GRAD 2.5%	**636**(623)	**644**(631)	**652**(639)
	CLIMB GRAD 3%	**189**(176)	**197**(184)	**206**(193)
VM(C)OCA (OCH AAL)	Total Area	**1040**(1025)	**1120**(1105)	**1800**(1785)
	Southeast of RWY 04/22	**1040**(1025)	**1120**(1105)	**1230**(1215)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-HBD
Advise ATC. Radar Ranges will be provided approaching the FAP and at 4NM and 1NM from the THR on the Final Approach.

NOTE 1 Direct Arrivals available on request to ATC.

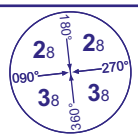
CHANGE (5/24): OCA(OCH) CLIMB GRAD 3% MINIMA REVISED.

AERO INFO DATE 16 FEB 24

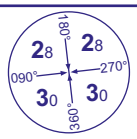
AD 2-EGAC-8-1

INSTRUMENT APPROACH CHART - ICAO

BELFAST CITY
LOC/DME/NDB(L)
RWY 04
(ACFT CAT A,B,C)



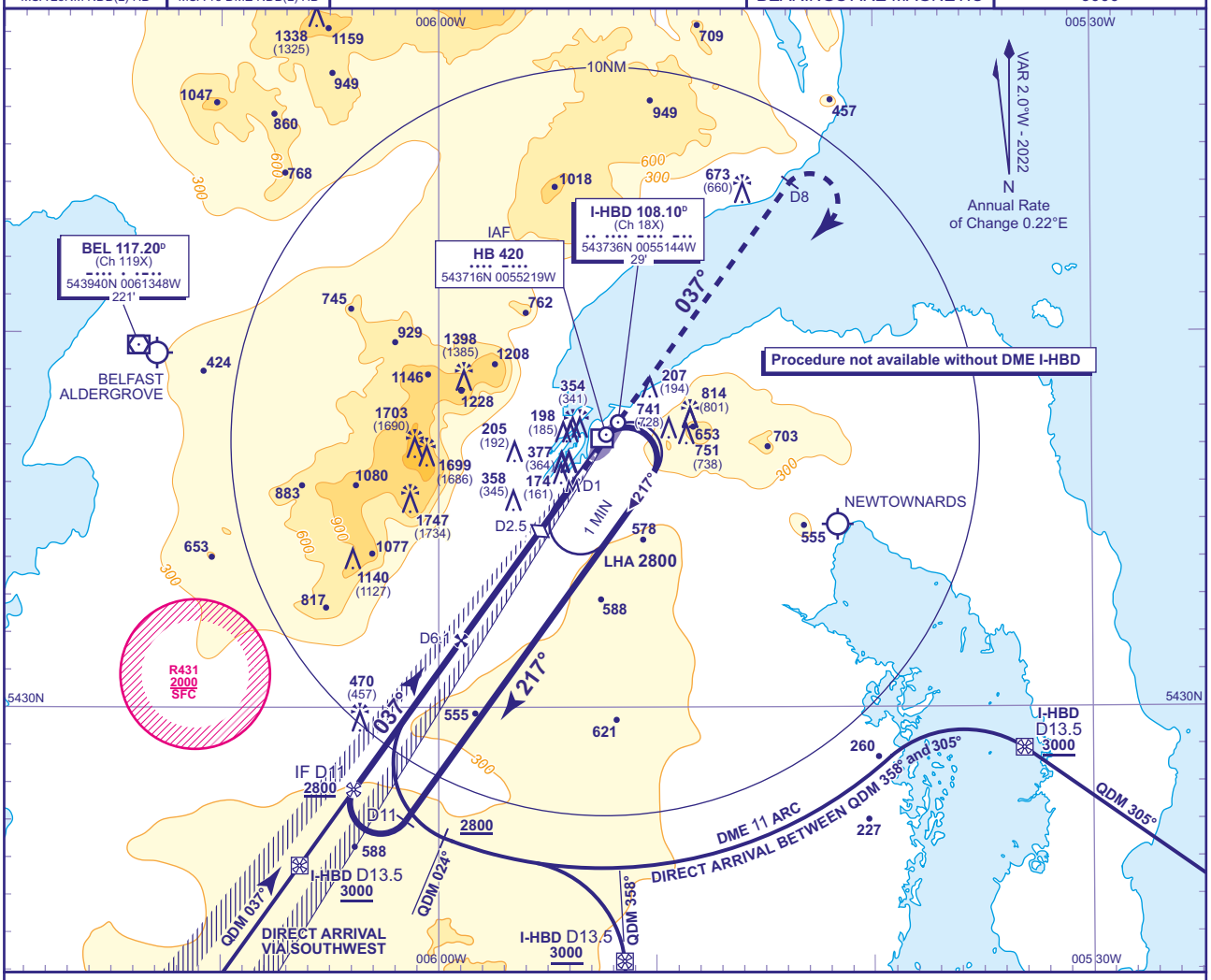
MSA 25NM NDB(L) HB



MSA 15 DME NDB(L) HB

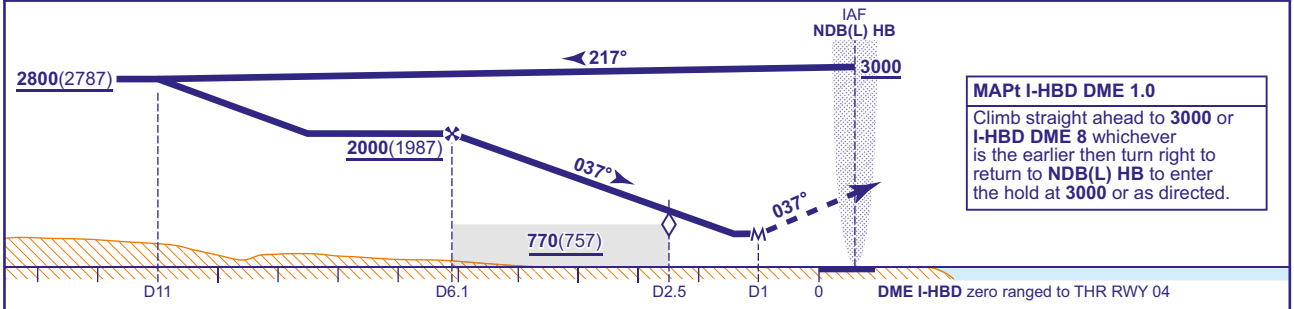
APP 130.850	BELFAST APPROACH	AD ELEVATION	15
TWR 122.830	BELFAST TOWER	THR ELEVATION	13
RAD 134.800	BELFAST RADAR	OBSTACLE ELEVATION	
ATIS 124.580	BELFAST INFORMATION	**1744 AMSL** (1731) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-HBD	6	5	4	3	2.5 (SDF)	2
ALT(HGT)	**1990**(1977)	**1670**(1657)	**1360**(1347)	**1040**(1027)	**880**(867)	**720**(707)



MAPt I-HBD DME 1.0

Climb straight ahead to **3000** or **I-HBD DME 8** whichever is the earlier then turn right to return to **NDB(L) HB** to enter the hold at **3000** or as directed.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**510**(497)	**510**(497)	**510**(497)
VM(C)OCA (OCH AAL)	Total Area	**1040**(1025)	**1120**(1105)	**1800**(1785)
	Southeast of RWY 04/22	**1040**(1025)	**1120**(1105)	**1230**(1215)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 Direct Arrivals available on request to ATC.

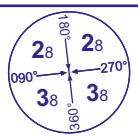
CHANGE (10/23): BEL VOR/DME ELEVATION REVISED.

AERO INFO DATE 12 JUL 23

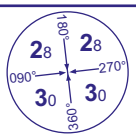
AD 2-EGAC-8-2

INSTRUMENT APPROACH CHART - ICAO

BELFAST CITY NDB(L)/DME RWY 04
(ACFT CAT A,B,C)



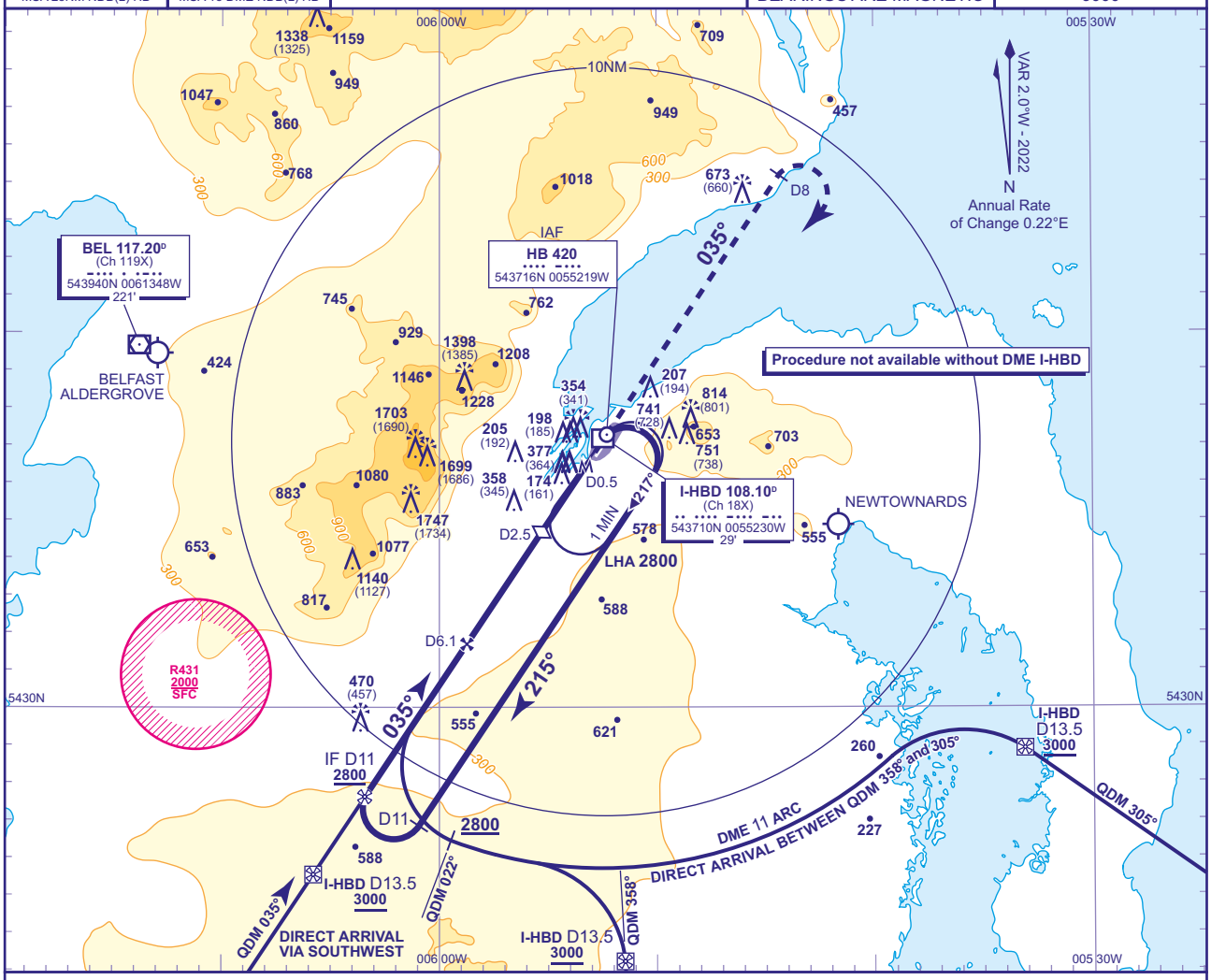
MSA 25NM NDB(L) HB



MSA 15 DME NDB(L) HB

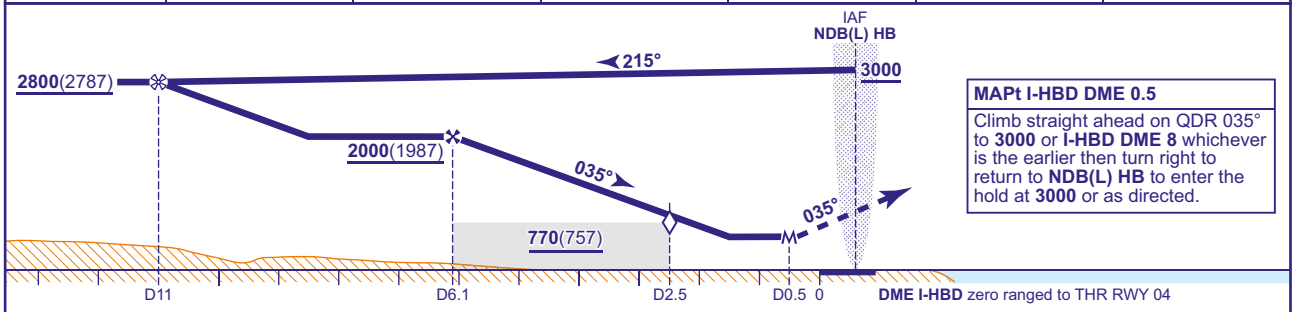
APP 130.850	BELFAST APPROACH	AD ELEVATION	15
TWR 122.830	BELFAST TOWER	THR ELEVATION	13
RAD 134.800	BELFAST RADAR	OBSTACLE ELEVATION	
ATIS 124.580	BELFAST INFORMATION	1744 AMSL (1731) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-HBD	6	5	4	3	2.5 (SDF)	2
ALT(HGT)	**1990**(1977)	**1670**(1657)	**1360**(1347)	**1040**(1027)	**880**(867)	**720**(707)



MAPt I-HBD DME 0.5
Climb straight ahead on QDR 035° to **3000** or **I-HBD DME 8** whichever is the earlier then turn right to return to **NDB(L) HB** to enter the hold at **3000** or as directed.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**650**(637)	**650**(637)	**650**(637)
VM(C)OCA (OCH AAL)	Total Area	**1040**(1025)	**1120**(1105)	**1800**(1785)
	Southeast of RWY 04/22	**1040**(1025)	**1120**(1105)	**1230**(1215)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

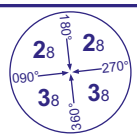
NOTE 1 FAT offset 2° from RWY C/L.
2 Direct Arrivals available on request to ATC.

CHANGE (10/23): BEL VOR/DME ELEVATION REVISED.

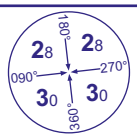
AERO INFO DATE 12 JUL 23

INSTRUMENT APPROACH CHART - ICAO

BELFAST CITY ILS/DME/NDB(L) RWY 22
(ACFT CAT A,B,C)



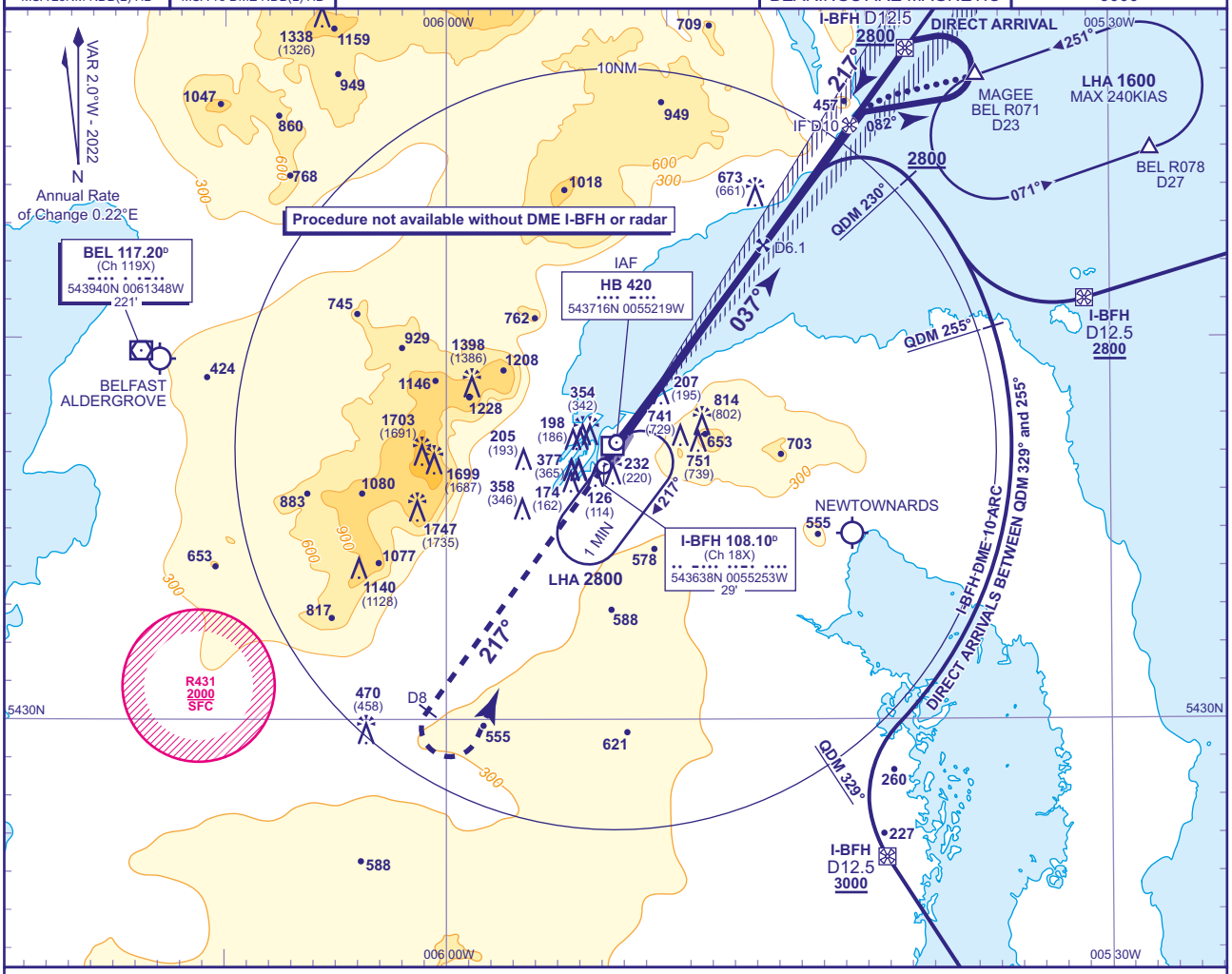
MSA 25NM NDB(L) HB



MSA 15 DME NDB(L) HB

APP 130.850	BELFAST APPROACH	AD ELEVATION	15
TWR 122.830	BELFAST TOWER	THR ELEVATION	12
RAD 134.800	BELFAST RADAR	OBSTACLE ELEVATION	
ATIS 124.580	BELFAST INFORMATION	**1744 AMSL** (1732) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

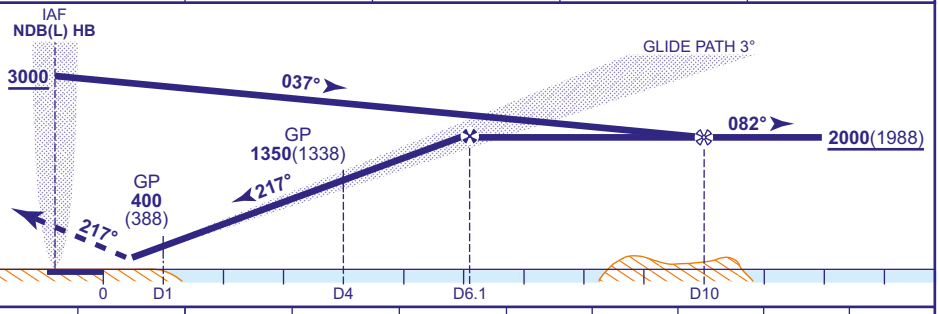


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-BFH	6	5	4	3	2	1
ALT(HGT)	**1990**(1978)	**1670**(1658)	**1350**(1338)	**1030**(1018)	**720**(708)	**400**(388)

RDH 50

Climb straight ahead to **3000** or **I-BFH DME 8** whichever is the earlier then turn left to return to **NDB(L) HB** to enter the hold at **3000** or as directed.



Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**CLIMB GRAD 2.5%**	**598**(586)	**608**(596)	**619**(607)
	CLIMB GRAD 3%	**175**(163)	**185**(173)	**198**(186)
VM(C)OCA (OCH AAL)	**Total Area**	**1040**(1025)	**1120**(1105)	**1800**(1785)
	Southeast of RWY 04/22	**1040**(1025)	**1120**(1105)	**1230**(1215)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-BFH
Advise ATC. Radar ranges will be provided approaching the FAP and at 4NM and 1NM from the THR on the final approach.

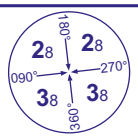
NOTE Direct arrivals available on request to ATC.

CHANGE (1/25): BEL VOR RECALIBRATED. MAGEE HOLD REVISED.

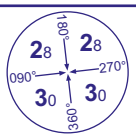
AERO INFO DATE 25 OCT 24 AD 2-EGAC-8-4

INSTRUMENT APPROACH CHART - ICAO

BELFAST CITY
LOC/DME/NDB(L)
RWY 22
(ACFT CAT A,B,C)



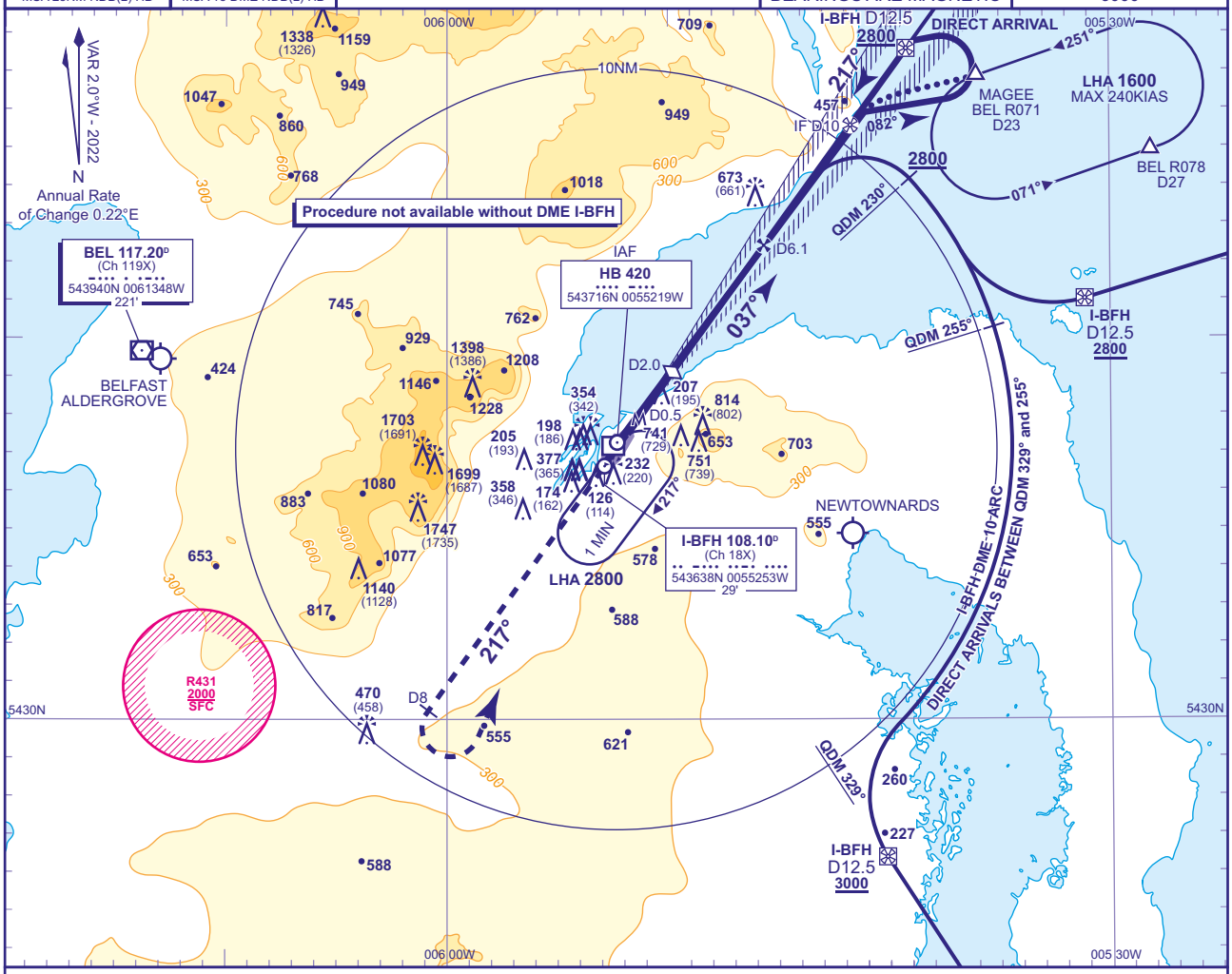
MSA 25NM NDB(L) HB



MSA 15 DME NDB(L) HB

APP 130.850	BELFAST APPROACH	AD ELEVATION	15
TWR 122.830	BELFAST TOWER	THR ELEVATION	12
RAD 134.800	BELFAST RADAR	OBSTACLE ELEVATION	
ATIS 124.580	BELFAST INFORMATION	1744 AMSL (1732) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

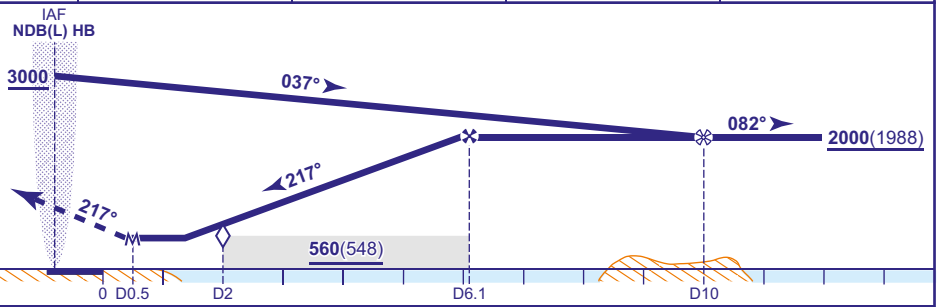


RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-BFH	6	5	4	3	2 (SDF)
ALT(HGT)	**1990**(1978)	**1670**(1658)	**1350**(1338)	**1030**(1018)	**720**(708)

MAPt I-BFH DME 0.5

Climb straight ahead to **3000** or **I-BFH DME 8** whichever is the earlier then turn left to return to **NDB(L) HB** to enter the hold at **3000** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**500**(488)	**500**(488)	**500**(488)
VM(C)OCA (OCH AAL)	**Total Area**	**1040**(1025)	**1120**(1105)	**1800**(1785)
	Southeast of RWY 04/22	**1040**(1025)	**1120**(1105)	**1230**(1215)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE Direct arrivals available on request to ATC.

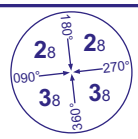
CHANGE (1/25): BEL VOR RECALIBRATED. MAGEE HOLD REVISED.

AERO INFO DATE 25 OCT 24

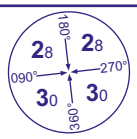
AD 2-EGAC-8-5

INSTRUMENT APPROACH CHART - ICAO

BELFAST CITY NDB(L)/DME RWY 22
(ACFT CAT A,B,C)



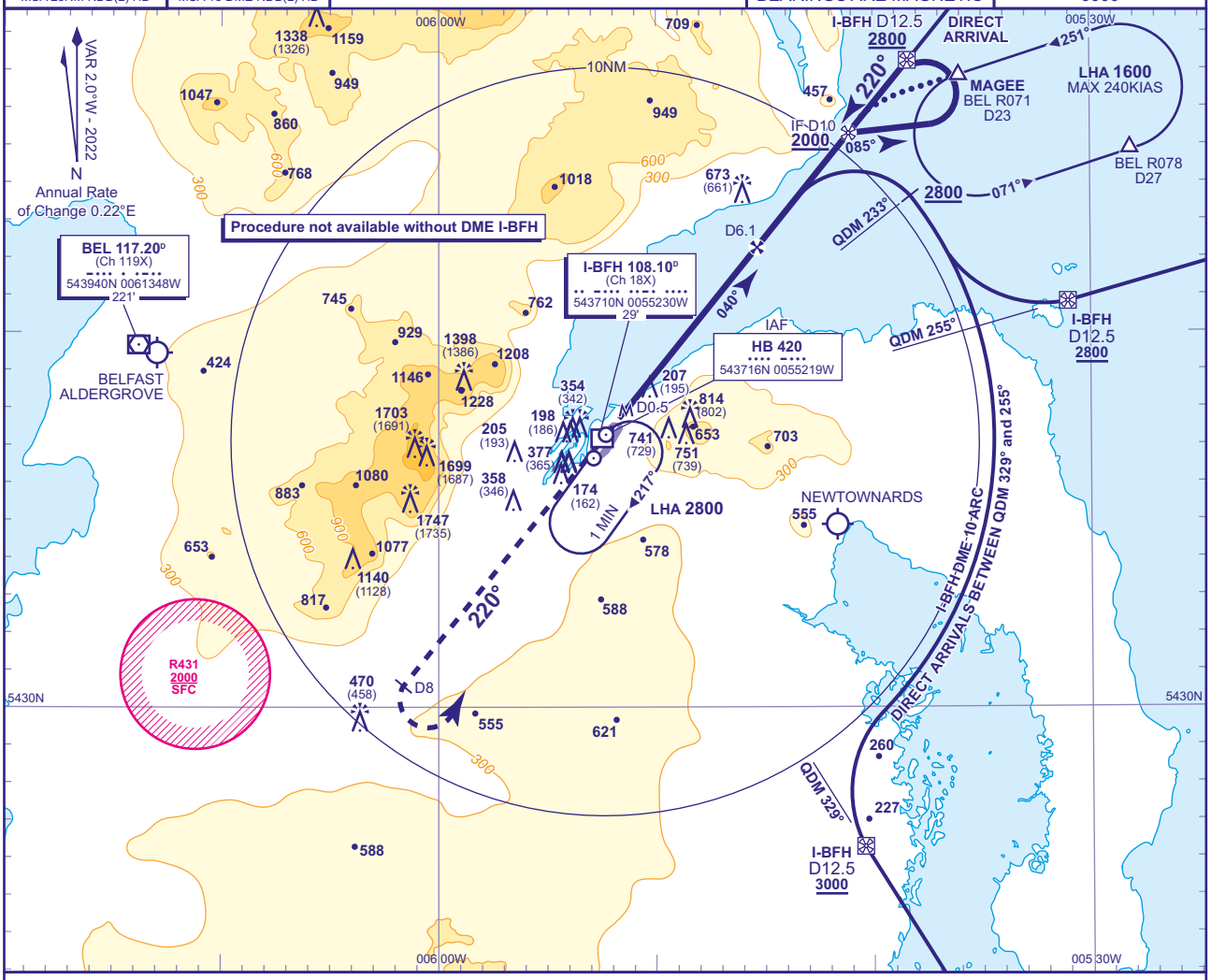
MSA 25NM NDB(L) HB



MSA 15 DME NDB(L) HB

APP 130.850	BELFAST APPROACH	AD ELEVATION	15
TWR 122.830	BELFAST TOWER	THR ELEVATION	12
RAD 134.800	BELFAST RADAR	OBSTACLE ELEVATION	
ATIS 124.580	BELFAST INFORMATION	**1744 AMSL** (1732) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

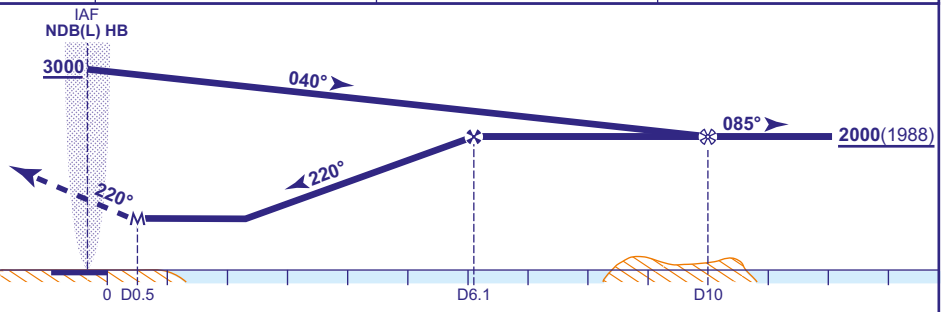
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GRADIENT 5.24%, 320FT/NM

DME I-BFH	6	5	4	3
ALT(HGT)	**1990**(1978)	**1670**(1658)	**1350**(1338)	**1030**(1018)

MAPt I-BFH DME 0.5
Climb straight ahead on QDR 220° to **3000** or **I-BFH DME 8** whichever is the earlier then turn left to return to **NDB(L) HB** to enter the hold at **3000** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**810**(798)	**810**(798)	**810**(798)
VM(C)OCA (OCH AAL)	**Total Area**	**1040**(1025)	**1120**(1105)	**1800**(1785)
	Southeast of RWY 04/22	**1040**(1025)	**1120**(1105)	**1230**(1215)

Rate of descent						
	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 FAT offset 3° from RWY C/L.
2 Direct Arrivals available on request to ATC.

CHANGE (1/25): BEL VOR RECALIBRATED. MAGEE HOLD REVISED.

AERO INFO DATE 25 OCT 24 AD 2-EGAC-8-6

EGPL — BENBECULA

EGPL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPL — BENBECULA

EGPL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 572850N Long: 0072150W Mid point of Runway 06/24
2	Direction and distance from city	West side of Isle of Benbecula
3	Elevation / Reference temperature / Mean Low Temperature	19 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	188 FT
5	Magnetic Variation / Annual Change	2.11°W (2027) / 0.22°E
6	AD Administration Address Telephone Telefax	HIAL Benbecula Aerodrome, Balivanich, Western Isles, HS7 5LA. 01870-602051 (Administration) 01870-604804 (ATC) 01870-604818 (MET/AD Info) 0141-8427455 (Loganair Operations - Glasgow) 01870-604826 (ATC) 01870-602278 (AD/Administration) 01870-602931 (RFFS)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPL AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0830-1630 (0730-1530); Sat 0830-0930 (0730-0830), 1015-1145 (0915-1045), 1215-1245 (1115-1145); Sun 1515-1630 (1415-1530). See remarks.
2	Customs and immigration	By arrangement, 48 HR notice required.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	By telephone to Aberdeen MET Office.
7	ATS	Mon-Fri 0815-1630 (0715-1530); Sat 0815-0915 (0715-0815), 1000-1145 (0900-1045), 1215-1245 (1115-1145); Sun 1500-1630 (1400-1530). See remarks.
8	Fuelling	
9	Handling	As AD hours.
10	Security	As AD hours.
11	De-icing	As AD Hours.
12	Remarks	This aerodrome is PPR. 3 hours notice by Tel: 01870-602051 or Fax: 01870-604826. Please see current NOTAMs for any changes to published Operational Hours.

EGPL AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement with Loganair, Tel: 01870-602310, email: bebcs@loganair.co.uk.
2	Fuel and oil types	
3	Fuelling facilities/capacity	
4	De-icing facilities	By arrangement with Loganair, Tel: 01870-602310, email: bebcs@loganair.co.uk.
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	Limited aircraft handling is provided by Loganair, Tel: 01870-602310.

EGPL AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in vicinity.
2	Restaurants	Terminal café.
3	Transportation	Taxis, Car hire and Buses.
4	Medical facilities	Limited first aid, local doctors and ambulance available.
5	Bank and Post Office	Bank and Post Office close by in Balivanich.
6	Tourist Office	
7	Remarks	

EGPL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4 RFF Category 5 accepted by prior arrangement. RFF Category 6 accepted under remission, by prior arrangement.
2	Rescue equipment	Limited water rescue facilities are available for Runway 06/24 during published opening hours and special/on call openings, subject to serviceability of equipment and times when the weather conditions and sea state are conducive to search operations. Contact: 01870-604820.
3	Capability for removal of disabled aircraft	Limited. Contact: 01870-604820.
4	Remarks	

EGPL AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, chemical de-icing.
2	Clearance priorities	Standard, see AD 1.2.2.
3	Remarks	Contact: 01870-604804, Runway 06/24 de-iced with Potassium Formate as required.

EGPL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete PCN 30/R/B/W/T (108 x 120 M).
2	Taxiway width, surface and strength	Taxiway MAIN TAXIWAY: 15 M Surface: Concrete PCN 30/R/B/W/T
3	Altimeter checkpoint location and elevation	Apron 19 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 06/24: Runway threshold, Runway designators, runway centre-line. Taxiway marking aid(s): Yellow centre-line
3	Stop bars and runway guard lights (if any)	3 RWY guard lights and illuminated signs RWY 06 Hold Alpha.
4	Other runway protection measures	
5	Remarks	WDIs RWY 06 THR: 572835.45N 0072213.82W (LGTD); RWY 24: 572858.83N 0072111.44W (LGTD) and 572903.28N 0072136.05W.

EGPL AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPL2313) 24/APPROACH 06/ TAKE-OFF	SOUTH LEE	573421.69N 0070923.22W	922 FT		No	
(EGPL2500) 24/APPROACH 06/ TAKE-OFF	EAVAL	573141.34N 0071057.95W	1138 FT		No	
(EGPL2836) 24/APPROACH 06/ TAKE-OFF	DRDF RAF	572918.52N 0072059.76W	37 FT	25 FT	Yes Red	
(EGPL2328) 24/APPROACH 06/ TAKE-OFF	ANEMOMETER	572859.06N 0072113.12W	50 FT	37 FT	Yes Red	
(EGPL2800) 24/APPROACH 06/ TAKE-OFF	WDI	572858.83N 0072111.44W	41 FT	29 FT	Yes Red	
(EGPL3015) 06/APPROACH 24/ TAKE-OFF	DVOR BEN	572840.57N 0072155.08W	46 FT	31 FT	No	
(EGPL3106) 06/APPROACH 24/ TAKE-OFF	ANEMOMETER	572835.60N 0072218.00W	51 FT	35 FT	Yes Red	
(EGPL2705) 06/APPROACH 24/ TAKE-OFF	WDI	572835.45N 0072213.82W	43 FT	28 FT	Yes Red	
(EGPL2845) 06/APPROACH 24/ TAKE-OFF	VDF	572835.27N 0072210.82W	36 FT	20 FT	Yes Red	
(EGPL3013) 06/APPROACH 24/ TAKE-OFF	NDB BBA	572834.24N 0072209.32W	52 FT	36 FT	Yes Red	
(EGPL1048) 06/APPROACH 24/ TAKE-OFF	FLOODLIGHT	572827.66N 0072223.03W	74 FT	57 FT	No	
(EGPL1034) 06/APPROACH 24/ TAKE-OFF	BUILDING	572825.62N 0072231.72W	63 FT	39 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPL2851)	WINDTURBINE	573152.34N 0071918.12W	81 FT	69 FT	No	
(EGPL2852)	WINDTURBINE	573054.80N 0071816.84W	119 FT	90 FT	Yes Red	
(EGPL2067)	TERRAIN	572934.08N 0072129.61W	58 FT	1 FT	No	
(EGPL1036)	WATERTOWER	572821.66N 0072227.24W	98 FT	70 FT	No	
(EGPL2811)	WIND TURBINE	572819.09N 0072318.04W	76 FT	58 FT	No	
(EGPL3003)	MAST	572744.72N 0071939.58W	174 FT	46 FT	Yes Red	
(EGPL2501)	RUEVAL	572733.11N 0071744.51W	407 FT		No	
(EGPL3005)	MAST	572629.58N 0072149.21W	102 FT	67 FT	Yes Red	
(EGPL2710)	WIND TURBINE	572518.27N 0072142.25W	266 FT	256 FT	No	

EGPL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English
7	Charts and other information available for briefing or consultation	AIRMET. Metforms 214, 215. SIGMET.
8	Supplementary equipment available for providing information	Fax. Automated information available by telephone 01870-604818, H24 (unverified outside AD hours).
9	ATS units provided with information	BENBECULA
10	Additional information (limitation of service, etc.)	Outside AD hours, unverified automatic observations provided by telephone ATIS (see 8).

EGPL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06	055.45°	1837 x 40 M	RWY surface: Asphalt. Grooved. PCN 26/F/B/X/T	572837.28N 0072225.09W 188.2 FT	THR 16.2 FT	
24	235.47°	1837 x 40 M	RWY surface: Asphalt. Grooved. PCN 26/F/B/X/T	572908.72N 0072100.27W 188.2 FT	THR 13.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	219 x 140 M	1917 x 280 M				RWY 06 Non-precision approach runway. Threshold displaced by 119 M.
	149 x 140 M	1917 x 280 M				RWY 24 Non-precision approach runway.

EGPL AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	1837 M	2056 M	1837 M	1717 M	
24	1688 M	1837 M	1688 M	1688 M	

EGPL AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06	Centre-line with one crossbar. 242 M Light intensity high	Light intensity high Green wingbars	PAPI Left/3° 42 FT 250 M			Elevated Light intensity high	Red		
24	Centre-line with one crossbar. 342 M Light intensity high	Light intensity high Green wingbars	PAPI Left/3° 42 FT 255 M			Elevated Light intensity high	Red		

EGPL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: RWY 06: 572835.60N 0072218.00W (LGTD), RWY 24: 572859.06N 0072113.12W (LGTD).
3	TWY edge and centre line lighting	EDGE: Blue edge lights on taxiway and apron edge.
4	Secondary power supply/switch-over time	Standby Generator/15 seconds.
5	Remarks	Apron Floodlighting. Obstacle lighting.

EGPL AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGPL AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BENBECULA ATZ A circle, 2 NM radius, centred at 572850N 0072150W on longest notified runway (06/ 24)	Upper limit: 2000 FT AGL Lower limit: SFC	G	BENBECULA APPROACH English	3000 FT		

EGPL AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	BENBECULA APPROACH	119.205 DOC 40 NM/ 15,000 FT.			Please refer to AD 2.3 Operational hours.	ATZ hours coincident with Approach hours. VDF 572835.27N 0072210.82W.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	BENBECULA TOWER	119.205 DOC 40 NM/ 15,000 FT.			Please refer to AD 2.3 Operational hours.	Due to FISO training and maintenance of currency, FISO phraseology may be in use during ATC published hours, with ATC in attendance. ATC service will remain available at all times. Pilots will be advised of periods of FISO training, normally via ATIS. VDF 572835.27N 0072210.82W.
AFIS	BENBECULA INFORMATION	119.205			By arrangement outside hours of Approach	
ATIS	BENBECULA INFORMATION	129.885			Please refer to AD 2.3 Operational hours.	
OTHER	BENBECULA FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 2.11°W (2027) 2.4°W (2023)	BEN	86Y 113.950 MHz	H24 Hours of operation for aerodrome purposes: Refer to EGPL AD 2.3 Operational hours.	572840.57N 0072155.08W	46 FT	VOR DOC 60 NM. VOR/DME normally radiates H24.
DME	BCL	18X 108.100 MHz	Please refer to AD 2.3 Operational hours.	572830.37N 0072213.10W	51 FT	DOC 25 NM. Zero range to site. Unlocks may be observed between radials 070 and 080.
NDB (L) 2.11°W (2027)	BBA	401.000 kHz	Please refer to AD 2.3 Operational hours.	572834.24N 0072209.32W		DOC 40 NM. Used as IAP when VOR BEN is not available. Normally radiates H24.

EGPL AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of Benbecula aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.
b) High Visibility Clothing is to be worn when airside.
c) Unmanned Air System (UAS) operators should request permission from Benbecula ATS at least 24 hours in advance of the flight within the Flight Restricted Zone (FRZ) to allow sufficient time for impact assessment and NOTAM action.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Intensive military activity takes place in the vicinity. ATS/ATIS will advise EGD701A-F, EGD701Y and EGD704 activity. Instrument approaches to Runway 06 may not be available or may be restricted during periods of activity. The entry procedure from the BEN VOR and the BBA NDB, for instrument approaches to Runway 24, may not be available or may be restricted during periods of activity.
b) The aerodrome is frequently opened for Air Ambulance and SAR flights outside published hours.
c) The use of the aerodrome is unavailable for 'out of hours' permit holders due to airport security restrictions.
d) All taxiways are closed, except between threshold of Runway 06 and the apron.
e) There are no marked parking stands on the apron due to rapid changes in wind conditions, marshallers will be provided when possible.
f) Grass areas are soft and unsafe. Poor load bearing characteristics may be found on the runway/taxiway strips and the area adjacent to the apron. Only marked taxiway to be used.
g) The apron area is subject to aerodrome security procedures during published hours.
h) Flocks of geese present on, and in fields adjacent to, the aerodrome, all year round.
i) Runway 24 during strong winds, moderate turbulence may be experienced on final between 8 to 4 NM.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

a) Whenever weather conditions allow, the preferred runway for landing is Runway 24 and the preferred runway for departure is Runway 06.
b) Runway departure restriction for aircraft requiring the use of a licensed aerodrome:

i. **Runway 06/24**. Except where an AOC holder has a less restrictive State authorised take-off minima, departures in RVR conditions of less than 400 M are not permitted

7 TRAINING

a) Training flights are subject to prior approval and acceptance by ATC.

EGPL AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable.

EGPL AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5

2 NORTH ATLANTIC DEPARTURES

a) Due to the proximity of the Shanwick Oceanic boundary to Benbecula, pilots must consider time scales for submitting an ’RCL’. Refer to ENR 2.2, paragraph 3.8.2 for details.

3 AIR TRAFFIC SERVICES OUTSIDE CONTROLLED AIRSPACE

a) During notified ATC Hours of service:

i. A procedural service will be routinely applied for IFR flights. Pilots will be expected to accept levels, radials, tracks and/or time allocation.
ii. A basic service will be applied to VFR flights. IFR flights may request a basic service.

b) Outside notified ATC Hours of service:

i. A basic service will be applied to SAR and Ambulance flights by a Flight Information Service Officer.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

5 CIRCUITS

a) Circuit Height: 1000 FT AAL unless instructed by ATC.
b) Circuit Directions: Runway 06 - LH; Runway 24 - RH.

c) Joining instructions as instructed by ATC.

EGPL AD 2.23 ADDITIONAL INFORMATION

a) Aircraft operators are responsible for the searching of any aircraft parked either overnight or within the demarcated area prior to departure.

EGPL AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPL-2-1
INSTRUMENT APPROACH CHART VOR/DME RWY 06 - ICAO
AD 2.EGPL-8-1
INSTRUMENT APPROACH CHART VOR RWY 06 - ICAO
AD 2.EGPL-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 06 - ICAO
AD 2.EGPL-8-3
INSTRUMENT APPROACH CHART NDB(L) RWY 06 - ICAO
AD 2.EGPL-8-4
INSTRUMENT APPROACH CHART VOR/DME Z RWY 24 - ICAO
AD 2.EGPL-8-5
INSTRUMENT APPROACH CHART VOR/DME Y RWY 24 - ICAO
AD 2.EGPL-8-6
INSTRUMENT APPROACH CHART NDB(L)/DME Z RWY 24 - ICAO
AD 2.EGPL-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME Y RWY 24 - ICAO
AD 2.EGPL-8-8

EGPL AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

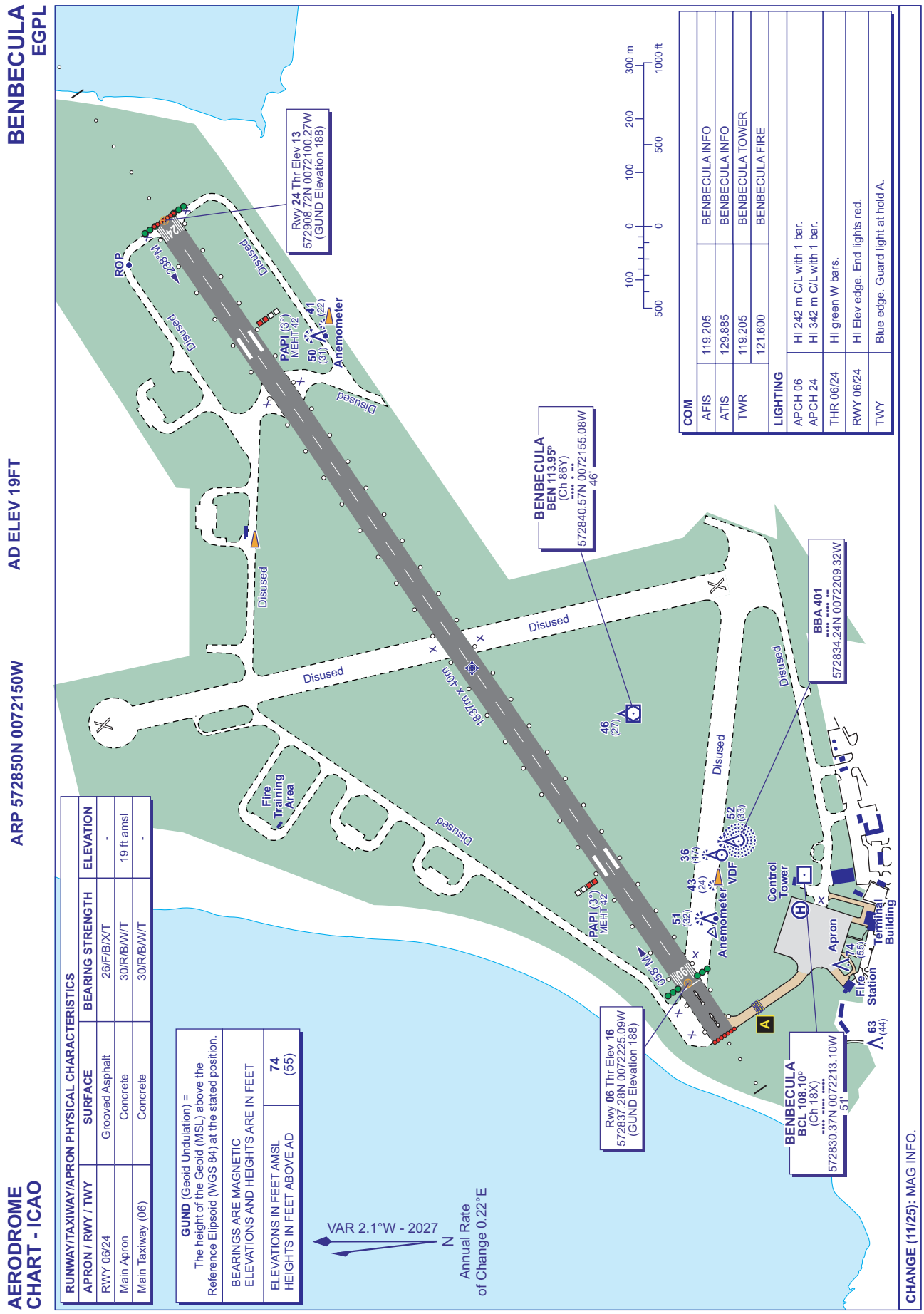
Not applicable

BENBECULA EGPL

AERODROME CHART - ICAO

ARP 572850N 0072150W

AD ELEV 19FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 06/24	Grooved Asphalt	26/F/B/X/T	-
Main Apron	Concrete	30/R/B/W/T	19 ft amsl
Main Taxiway (06)	Concrete	30/R/B/W/T	-

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL 74
HEIGHTS IN FEET ABOVE AD (55)

VAR 2.1°W - 2027
Annual Rate of Change 0.22°E

CHANGE (11/25): MAG INFO.

AERO INFO DATE 12 AUG 25

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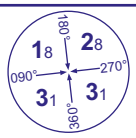
INSTRUMENT APPROACH CHART - ICAO

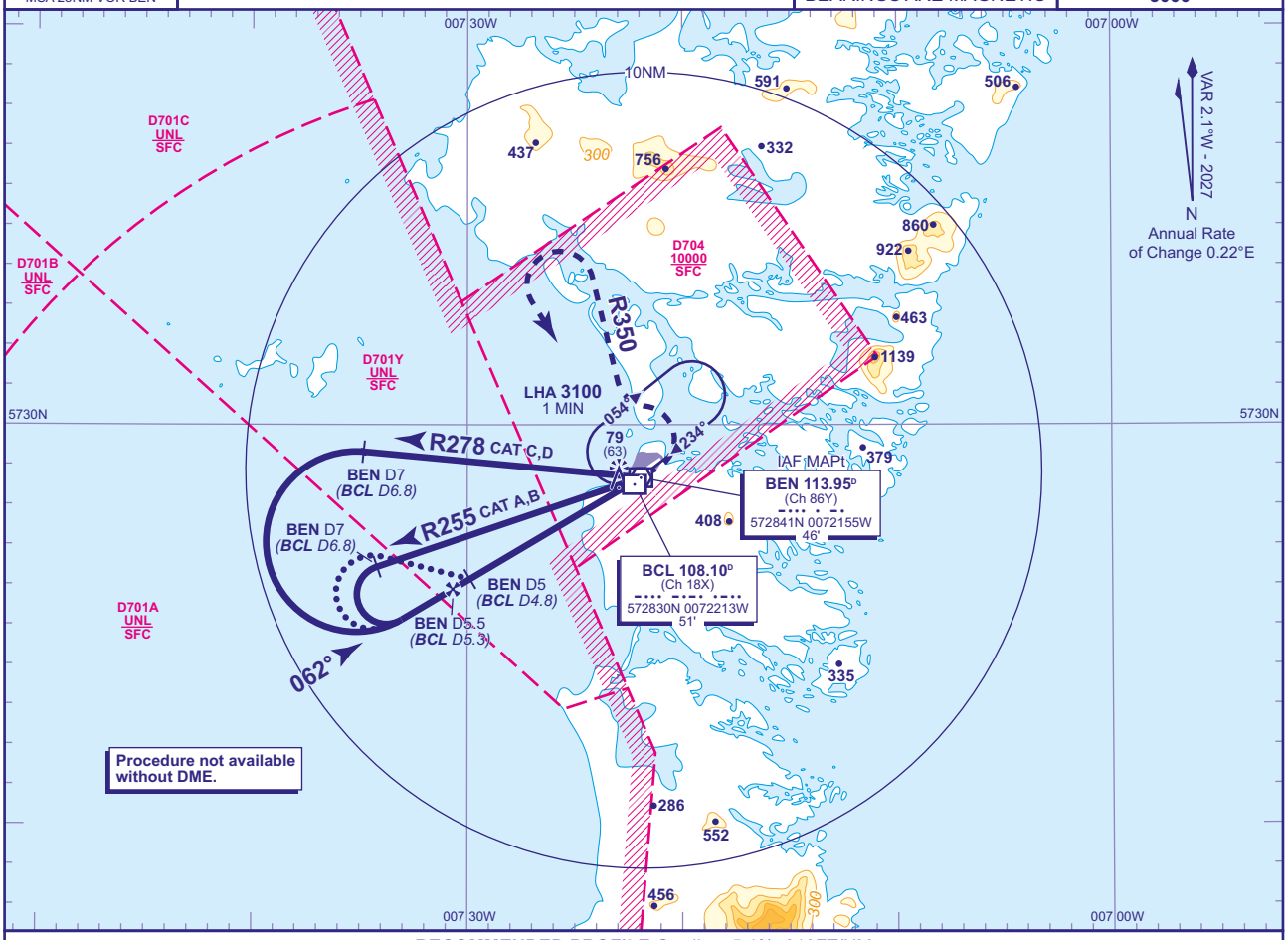
BENBECULA VOR/DME RWY 06
(ACFT CAT A,B,C,D)



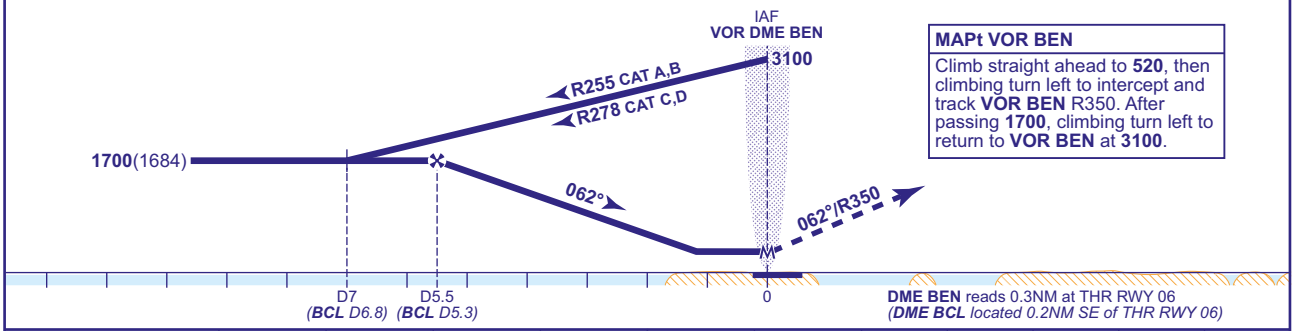
MSA 25NM VOR BEN

APP	119.205	BENBECULA APPROACH	AD ELEVATION	19
TWR	119.205	BENBECULA TOWER	THR ELEVATION	16
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION	79 AMSL (63)(ABOVE THR)
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.1%, 310FT/NM				
DME BEN (BCL)	5(4.8)	4(3.8)	3(2.8)	2(1.8)
ALT(HGT)	**1540**(1524)	**1230**(1214)	**920**(904)	**610**(594)



MAPt VOR BEN

Climb straight ahead to **520**, then climbing turn left to intercept and track **VOR BEN** R350. After passing **1700**, climbing turn left to return to **VOR BEN** at **3100**.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**360**(344)	**360**(344)	**360**(344)	**360**(344)
VM(C)OCA (OCH AAL)	**Total Area**	**470**(451)	**710**(691)	**810**(791)	**810**(791)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	830	720	620	520	410

ALTERNATIVE PROCEDURE (PROCEDURE TURN REVERSAL)
Overhead VOR DME BEN (IAF) at **3100**, fly outbound on R242 descending to **1700**(1684). At BEN DME 5 (BCL D4.8) procedure turn right onto extended FAT. When established, continue as for main procedure.

NOTES
1 FAT is offset 4.3° from RWY 06 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedures available subject to ATC permission.
3 Base Turn and Procedure Turn for CAT C and D aircraft are based on 250KIAS to accommodate military aircraft.

CHANGE (11/25): MAG INFO.

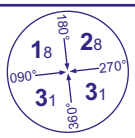
AERO INFO DATE 11 AUG 25

AD 2-EGPL-8-1

INSTRUMENT APPROACH CHART - ICAO

BENBECULA VOR RWY 06

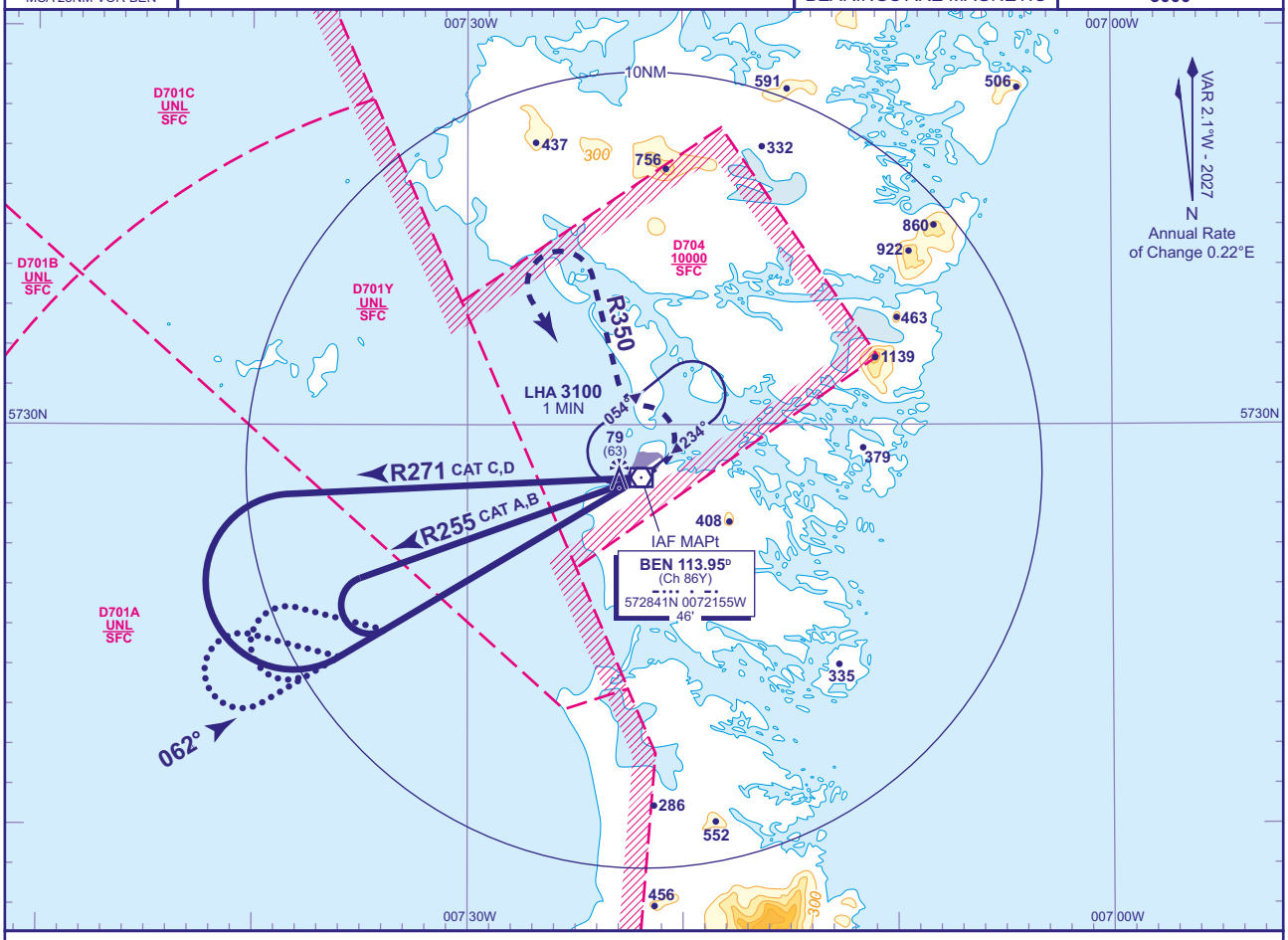
(ACFT CAT A,B,C,D)

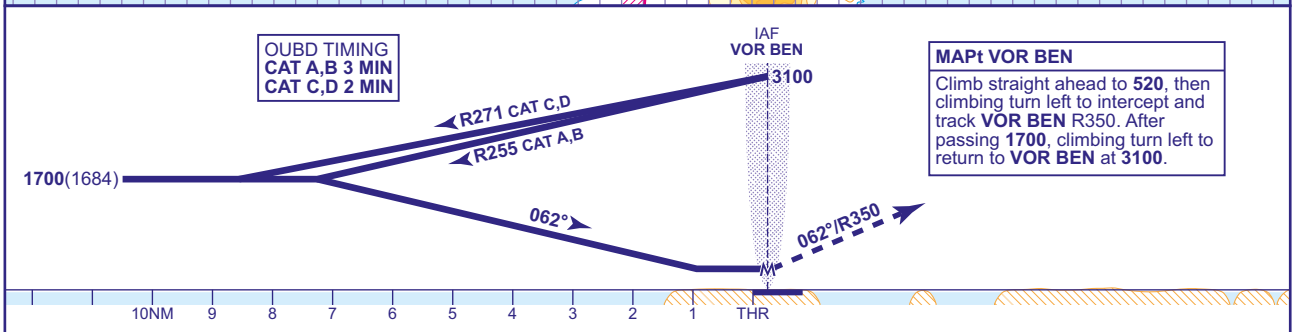


MSA 25NM VOR BEN

APP	119.205	BENBECULA APPROACH	AD ELEVATION	19
TWR	119.205	BENBECULA TOWER	THR ELEVATION	16
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION	79 AMSL (63)(ABOVE THR)
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**





MAPt VOR BEN

Climb straight ahead to **520**, then climbing turn left to intercept and track **VOR BEN** R350. After passing **1700**, climbing turn left to return to **VOR BEN** at **3100**.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**410**(394)	**410**(394)	**410**(394)	**410**(394)
VM(C)OCA (OCH AAL)	**Total Area**	**470**(451)	**710**(691)	**810**(791)	**810**(791)

ALTERNATIVE PROCEDURE (PROCEDURE TURN REVERSAL)
Overhead VOR BEN (IAF) at **3100**, fly outbound on R242 descending to **1700**(1684). For CAT A,B 3MIN and CAT C,D 2MIN prior to procedure turn right, when established on FAT descend to MDH.

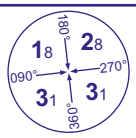
NOTES
1 FAT is offset 4.3° from RWY 06 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedure available subject to ATC permission.
3 Base Turn and Procedure Turn for CAT C and D aircraft are based on 250KIAS to accommodate military aircraft.

CHANGE (11/25): MAG INFO.

AERO INFO DATE 11 AUG 25

INSTRUMENT APPROACH CHART - ICAO

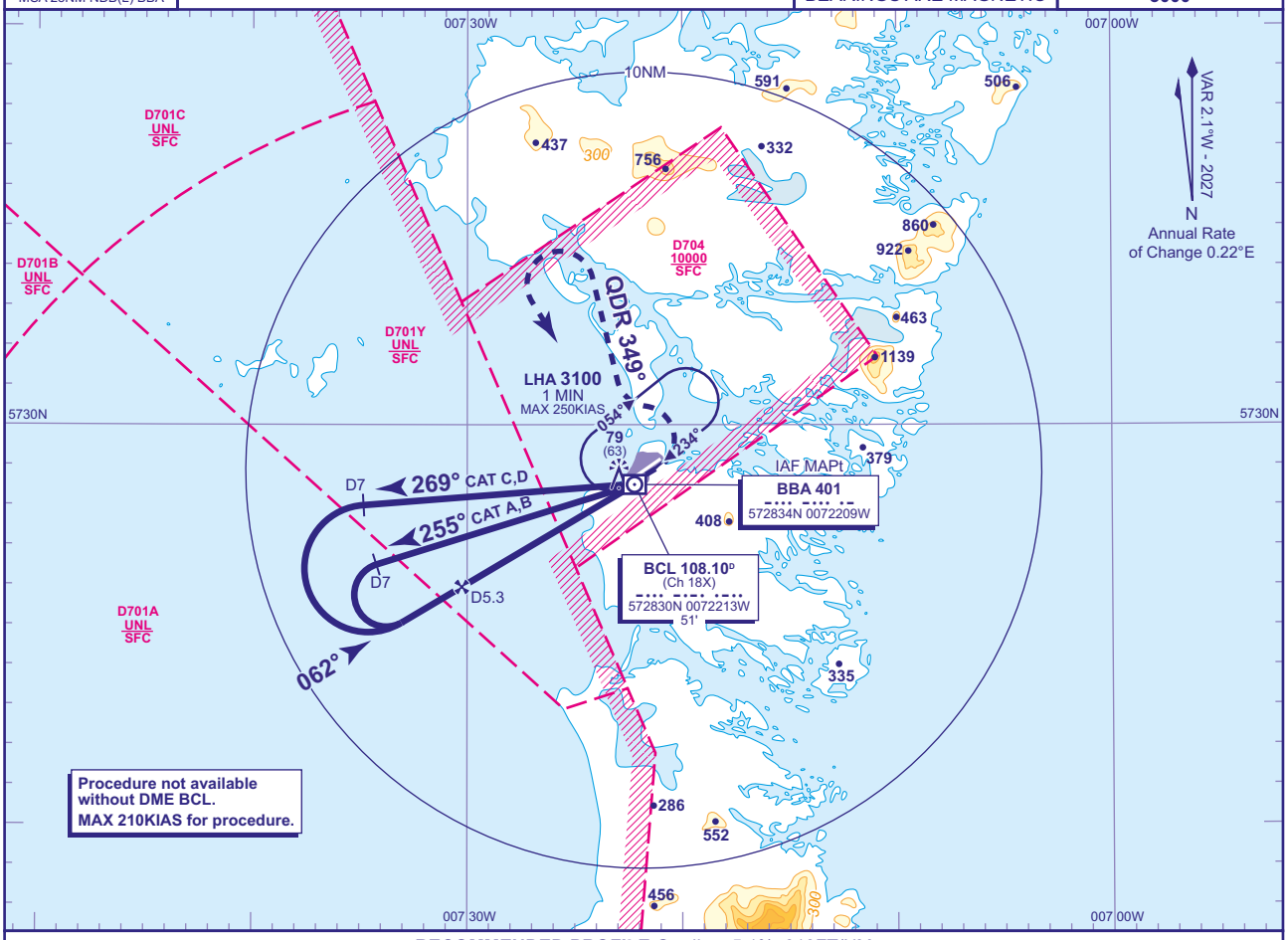
BENBECULA NDB(L)/DME RWY 06
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BBA

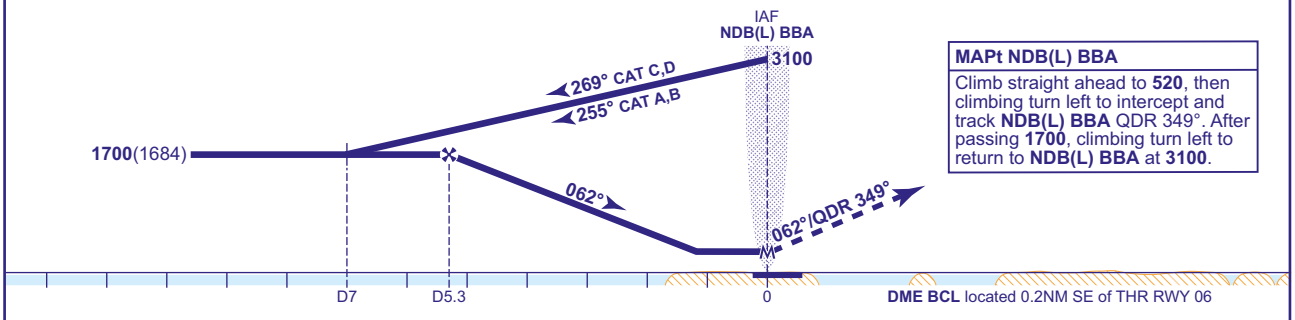
APP	119.205	BENBECULA APPROACH	AD ELEVATION	19	
TWR	119.205	BENBECULA TOWER	THR ELEVATION	16	
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION	79 AMSL (63)(ABOVE THR)	
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.1%, 310FT/NM

DME BCL	5	4	3	2	1
ALT(HGT)	**1610**(1594)	**1300**(1284)	**990**(974)	**680**(664)	**370**(354)



MAPt NDB(L) BBA
Climb straight ahead to **520**, then climbing turn left to intercept and track **NDB(L) BBA** QDR 349°. After passing **1700**, climbing turn left to return to **NDB(L) BBA** at **3100**.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**360**(344)	**360**(344)	**360**(344)	**360**(344)
VM(C)OCA (OCH AAL)	**Total Area**	**470**(451)	**710**(691)	**810**(791)	**810**(791)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	830	720	620	520	410

NOTES 1 FAT is offset 4.4° from RWY 06 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedure available subject to ATC permission.

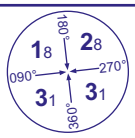
CHANGE (11/25): MAG INFO. MAG TRACKS.

AERO INFO DATE 11 AUG 25

INSTRUMENT APPROACH CHART - ICAO

BENBECULA NDB(L) RWY 06

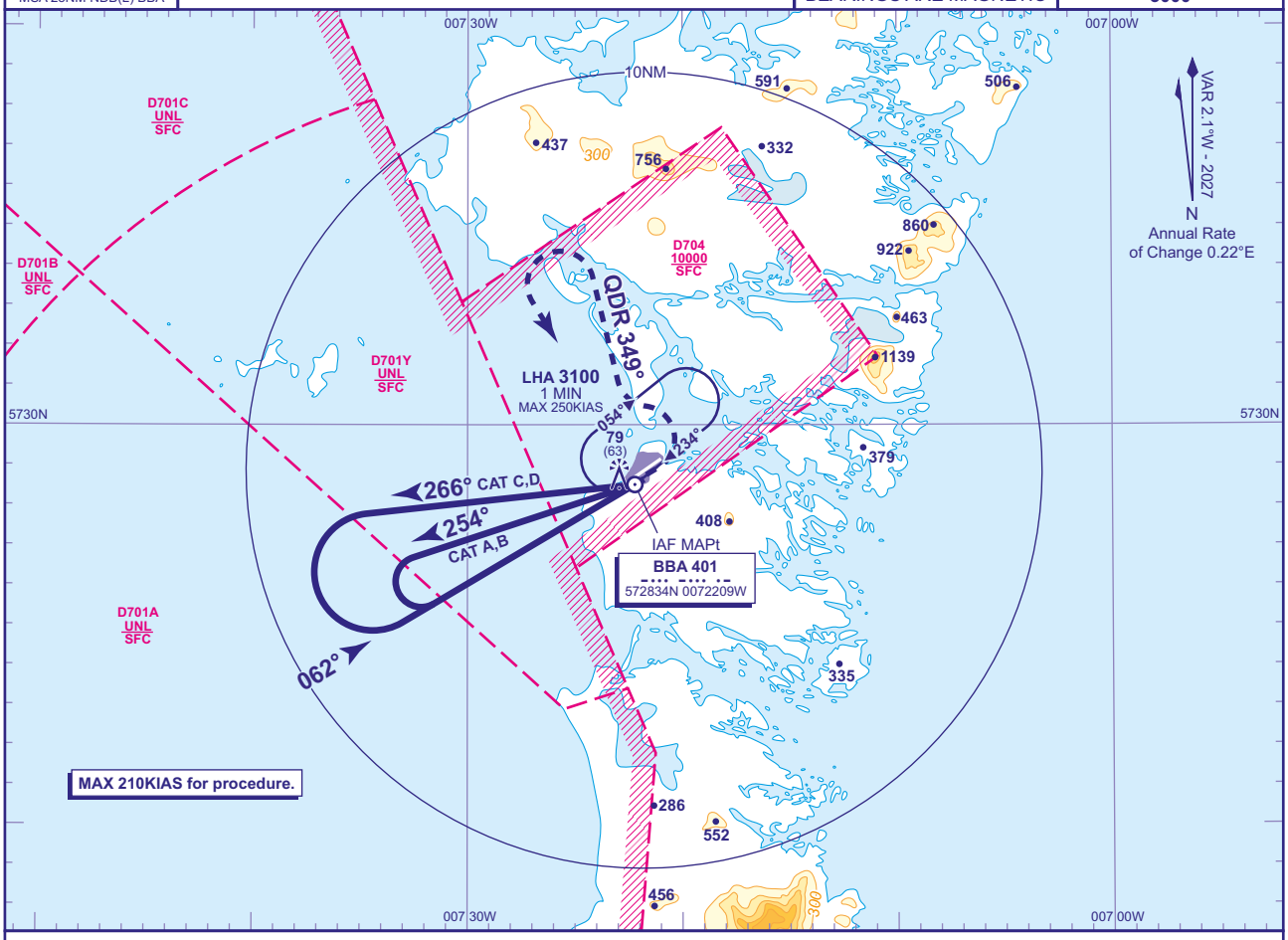
(ACFT CAT A,B,C,D)

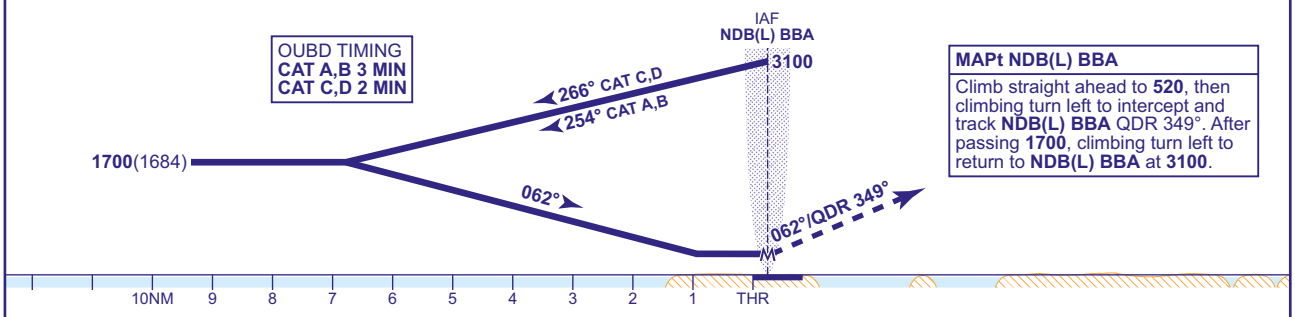


MSA 25NM NDB(L) BBA

APP	119.205	BENBECULA APPROACH	AD ELEVATION	19
TWR	119.205	BENBECULA TOWER	THR ELEVATION	16
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION	79 AMSL (63)(ABOVE THR)
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**





MAPt NDB(L) BBA

Climb straight ahead to **520**, then climbing turn left to intercept and track **NDB(L) BBA** QDR 349°. After passing **1700**, climbing turn left to return to **NDB(L) BBA** at **3100**.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**410**(394)	**410**(394)	**410**(394)	**410**(394)
VM(C)OCA (OCH AAL)	Total Area	**470**(451)	**710**(691)	**810**(791)	**810**(791)

NOTES **1** FAT is offset 4.4° from RWY 06 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedure available subject to ATC permission.

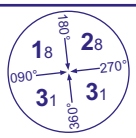
CHANGE (11/25): MAG INFO. MAG TRACKS.

AERO INFO DATE 11 AUG 25

AD 2-EGPL-8-4

INSTRUMENT APPROACH CHART - ICAO

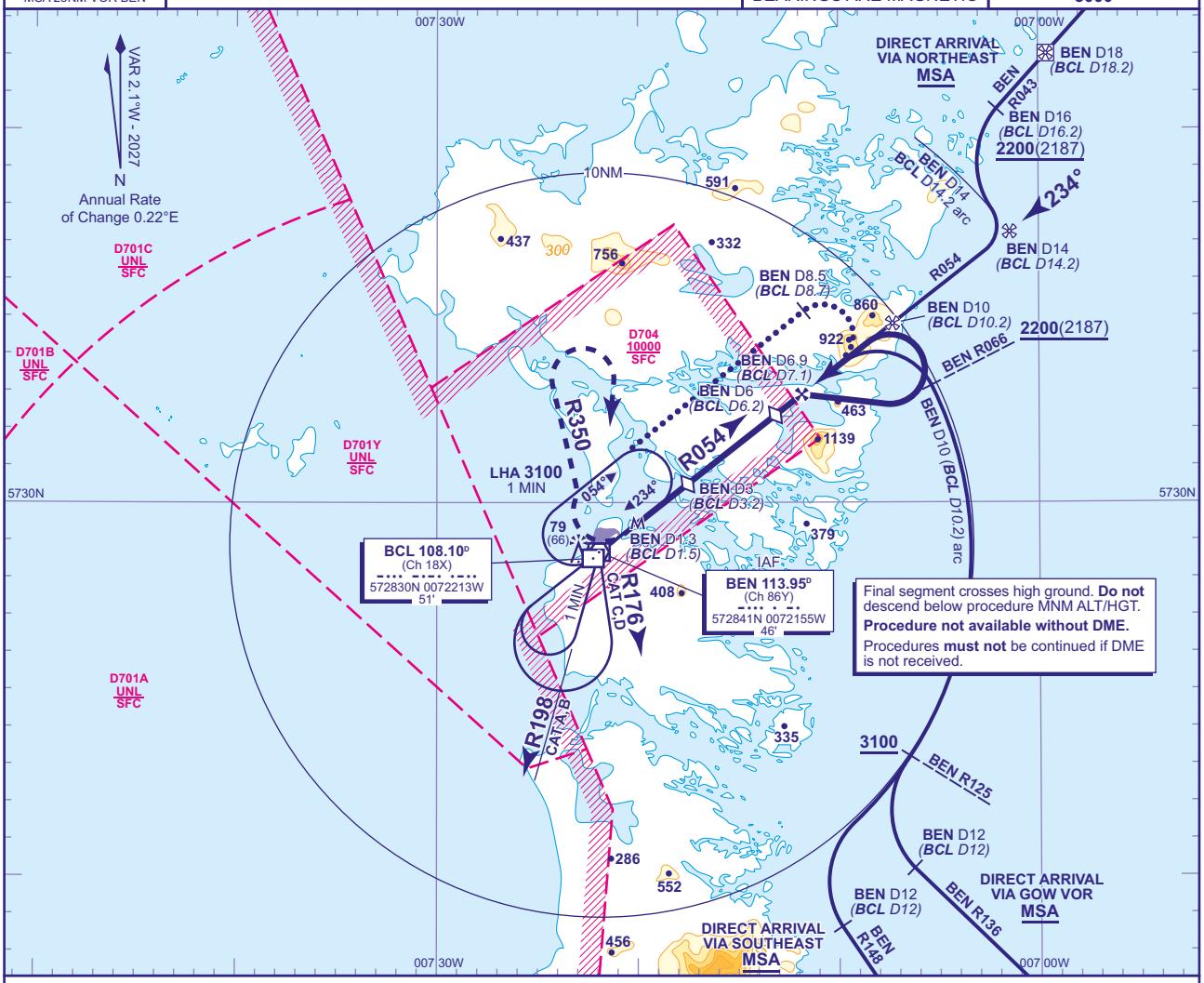
BENBECULA VOR/DME Z RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEN

APP	119.205	BENBECULA APPROACH	AD ELEVATION	19
TWR	119.205	BENBECULA TOWER	THR ELEVATION	13
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION	79 AMSL (66)(ABOVE THR)
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

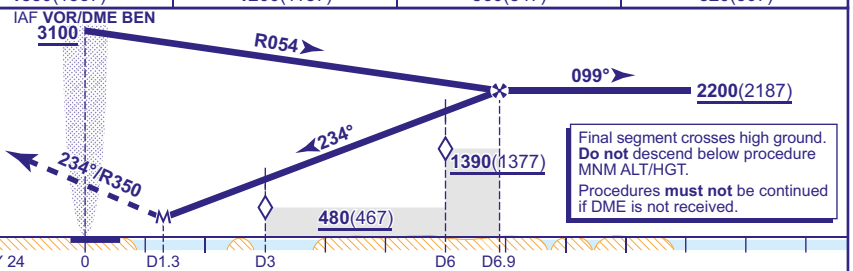


RECOMMENDED PROFILE Gradient 5.7%, 344FT/NM

DME BEN (BCL)	6 (6.2) **(SDF)**	5 (5.2)	4 (4.2)	3 (3.2) **(SDF)**	2 (2.2)
ALT(HGT)	**1890**(1877)	**1550**(1537)	**1200**(1187)	**860**(847)	**520**(507)

MAPt BEN DME 1.3 (BCL D1.5)

Danger Areas Active:
Climb straight ahead to **520**, then climbing turn right to intercept and track **VOR BEN** R350. After passing **1700**, climbing turn right to return to **VOR BEN** at **3100**.
Note: No turns permitted before MAPt.



DME BEN reads 0.7NM at THR RWY 24
*(**DME BCL** reads 0.9NM at THR RWY 24)*

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**340**(327)	**340**(327)	**340**(327)	**340**(327)
VM(C)OCA (OCH AAL)	**Total Area**	**470**(451)	**710**(691)	**810**(791)	**810**(791)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	920	800	690	570	460

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN Overhead VOR DME BEN in holding pattern, turn right and descend on extended outbound leg to **2200**. At BEN DME 8.5 (BCL D8.7) turn right to intercept FAT. When established, continue as for main procedure.

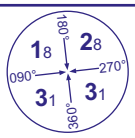
NOTES
1 FAT is offset 3.7° from RWY 24 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedures available subject to ATC permission.
3 Unlocks of BCL DME may be observed between 070 and 080.
4 To commence procedure from hold, overhead VOR DME BEN, fly baseturn manoeuvre on CAT A,B R198, CAT C,D R176 for 1 MIN then turn right to return to the facility on 054° **not below 3100**.

CHANGE (11/25): MAG INFO.

AERO INFO DATE 11 AUG 25

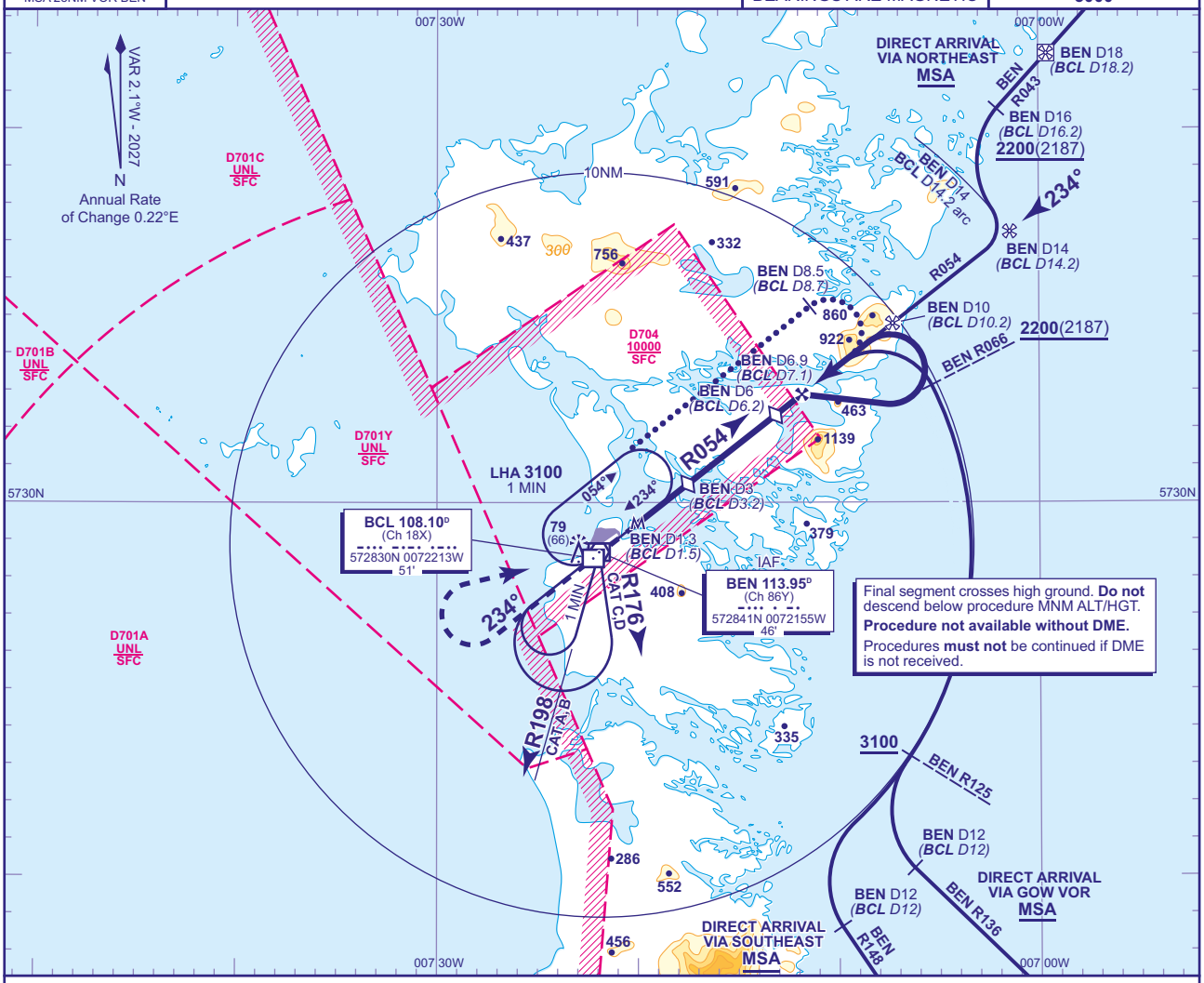
INSTRUMENT APPROACH CHART - ICAO

BENBECULA VOR/DME Y RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM VOR BEN

APP	119.205	BENBECULA APPROACH	AD ELEVATION	19	TRANSITION ALTITUDE 3000
TWR	119.205	BENBECULA TOWER	THR ELEVATION	13	
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION 79 AMSL (66)(ABOVE THR)		
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC		

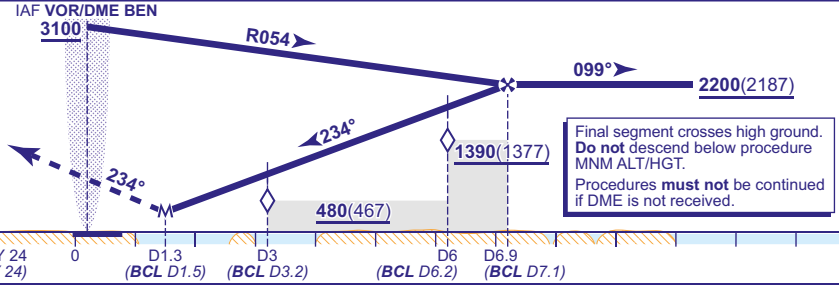


RECOMMENDED PROFILE Gradient 5.7%, 344FT/NM

DME BEN (BCL)	6 (6.2) **(SDF)**	5 (5.2)	4 (4.2)	3 (3.2) **(SDF)**	2 (2.2)
ALT(HGT)	**1890**(1877)	**1550**(1537)	**1200**(1187)	**860**(847)	**520**(507)

MAPt BEN DME 1.3 (BCL D1.5)

Danger Areas Not Active:
Climb straight ahead to **1700**. At **1700**, turn right to return to **VOR BEN** at **3100**.
Note: No turns permitted before MAPt.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**340**(327)	**340**(327)	**340**(327)	**340**(327)
VM(C)OCA (OCH AAL)	**Total Area**	**470**(451)	**710**(691)	**810**(791)	**810**(791)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	920	800	690	570	460

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN Overhead VOR DME BEN in holding pattern, turn right and descend on extended outbound leg to **2200**. At BEN DME 8.5 (BCL D8.7) turn right to intercept FAT. When established, continue as for main procedure.

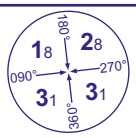
NOTES
1 FAT is offset 3.7° from RWY 24 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedure available subject to ATC permission.
3 Unlocks of BCL DME may be observed between 070 and 080.
4 To commence procedure from hold, overhead VOR DME BEN, fly baseturn manoeuvre on CAT A,B R198, CAT C,D R176 for 1 MIN then turn right to return to the facility on 054° **not below 3100**.

CHANGE (11/25): MAG INFO.

AERO INFO DATE 11 AUG 25 AD 2-EGPL-8-6

INSTRUMENT APPROACH CHART - ICAO

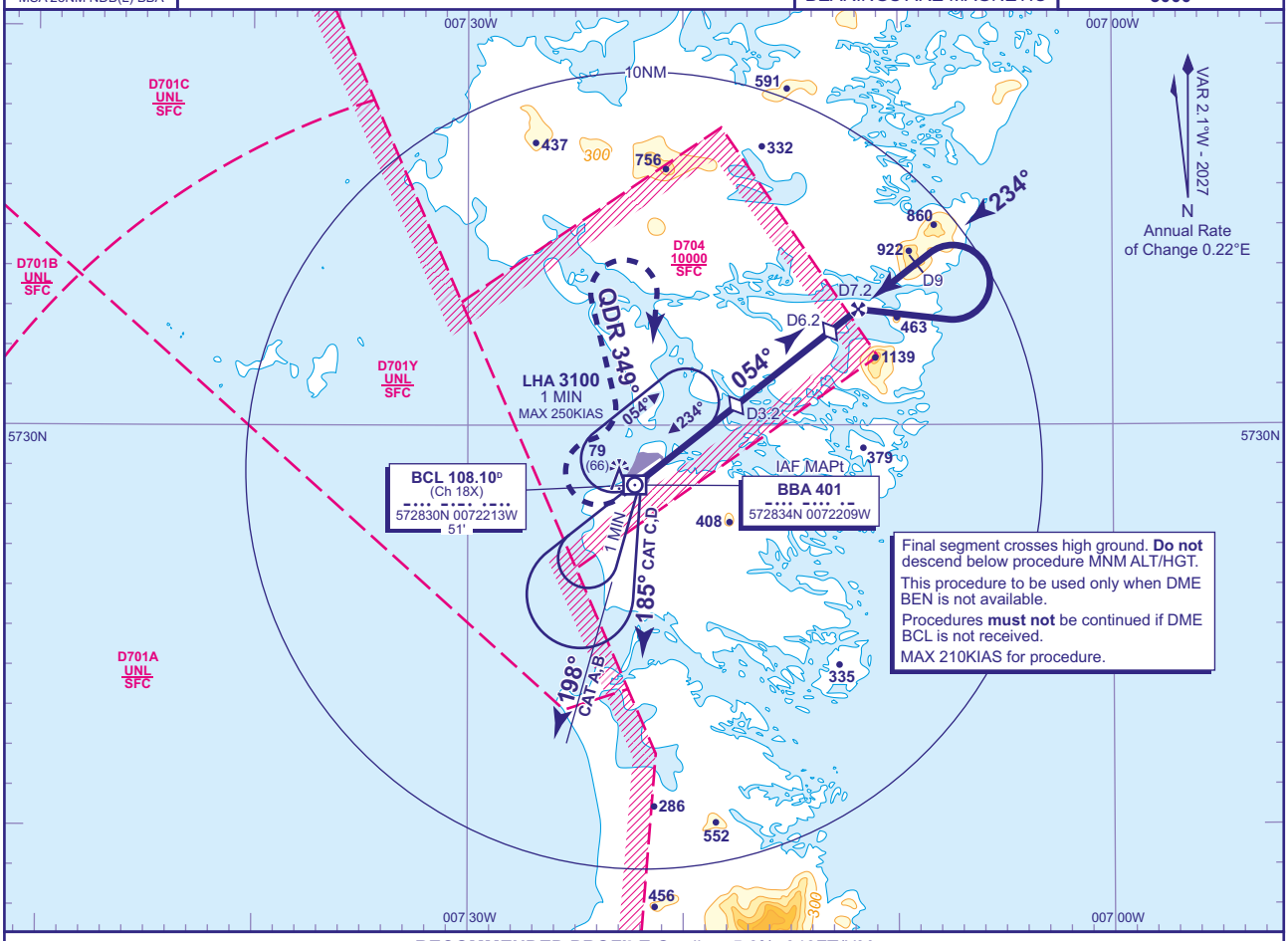
BENBECULA NDB(L)/DME Z RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BBA

APP	119.205	BENBECULA APPROACH	AD ELEVATION	19	
TWR	119.205	BENBECULA TOWER	THR ELEVATION	13	
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION	79 AMSL (66)(ABOVE THR)	
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**

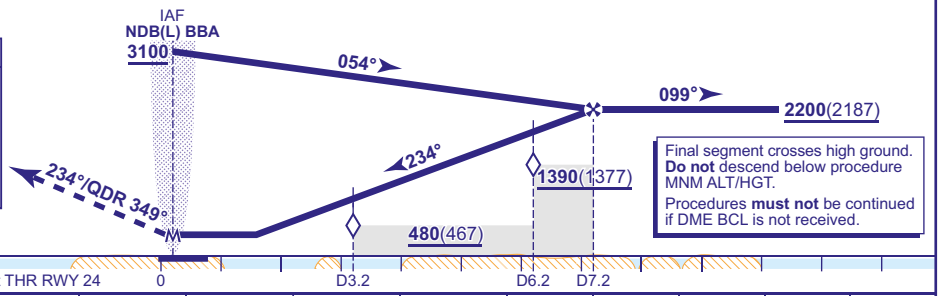


RECOMMENDED PROFILE Gradient 5.6%, 340FT/NM

DME BCL	7	6.2 (SDF)	6	5	4	3.2 (SDF)	3	2
ALT(HGT)	**2130**(2117)	**1860**(1847)	**1790**(1777)	**1450**(1437)	**1110**(1097)	**840**(827)	**770**(757)	**430**(417)

MAPt NDB(L) BBA

Danger Areas Active:
Climb straight ahead to **520**, then climbing turn right to intercept and track **NDB(L) BBA** QDR 349° outbound. After passing **1700**, climbing turn right to return to **NDB(L) BBA** at **3100**.
Note: No turns permitted before MAPt.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**330**(317)	**330**(317)	**330**(317)	**330**(317)
VM(C)OCA (OCH AAL)	Total Area	**470**(451)	**710**(691)	**810**(791)	**810**(791)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	910	790	680	570	450

NOTES
1 FAT is offset 3.6° from RWY 24 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedure available subject to ATC permission.
3 To commence procedure from hold, overhead NDB(L) BBA, fly baseturn manoeuvre on CAT A,B 198°, CAT C,D 185° for 1 MIN then turn right to return to the facility on 054° **not below 3100**.

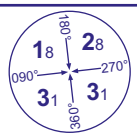
CHANGE (11/25): MAG INFO. MAG TRACKS.

AERO INFO DATE 14 AUG 25

AD 2-EGPL-8-7

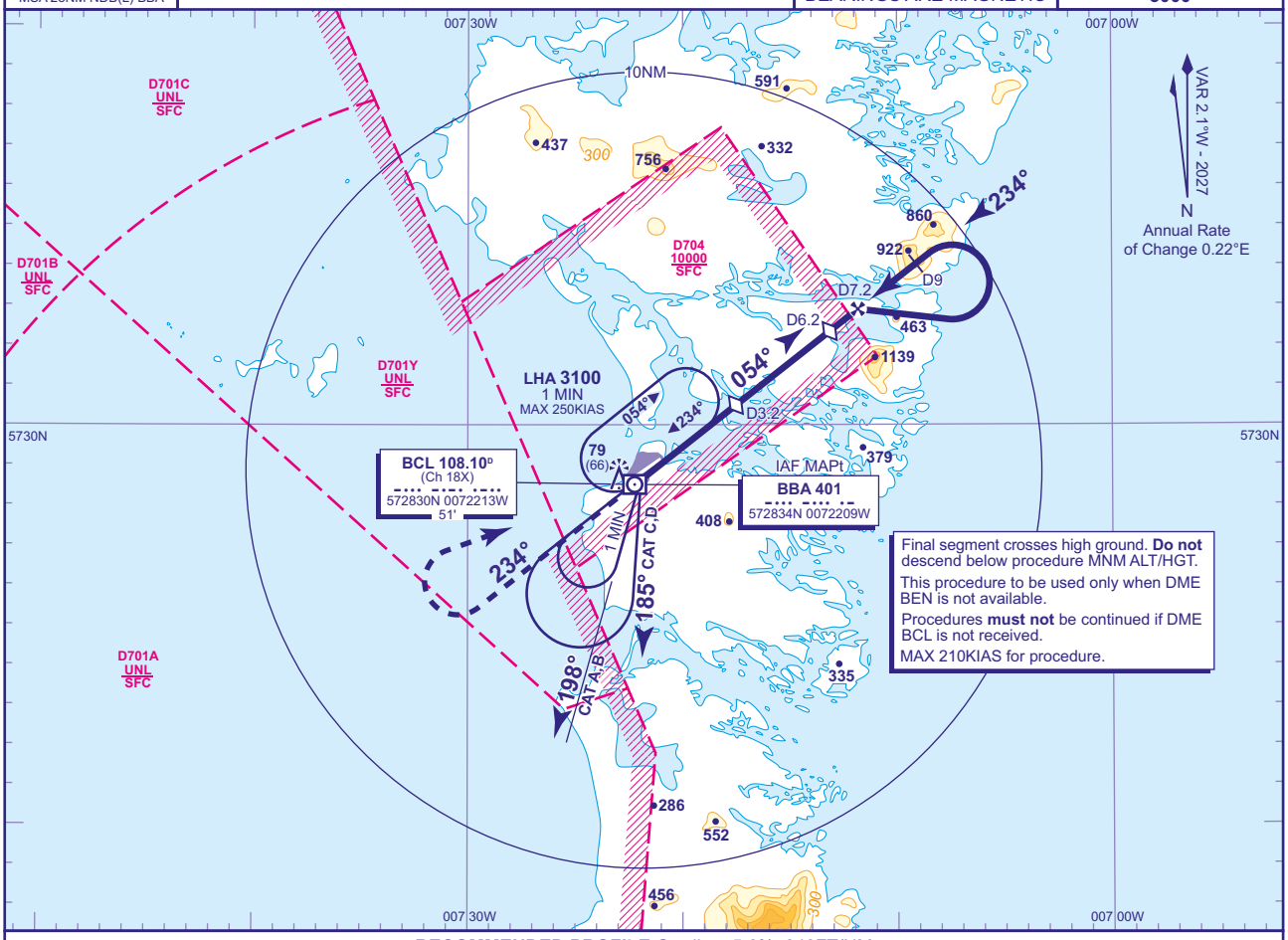
INSTRUMENT APPROACH CHART - ICAO

BENBECULA NDB(L)/DME Y RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BBA

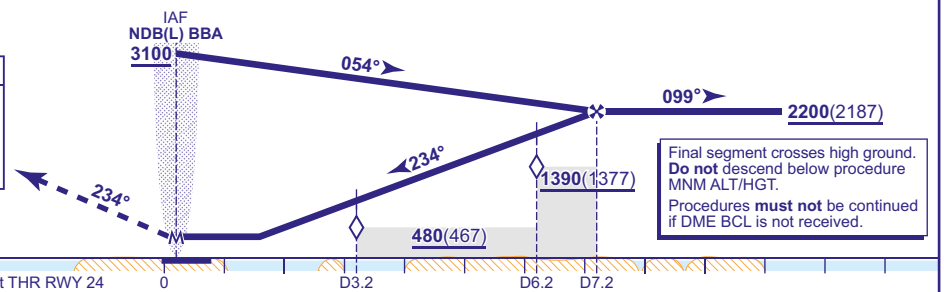
APP	119.205	BENBECULA APPROACH	AD ELEVATION	19	TRANSITION ALTITUDE 3000
TWR	119.205	BENBECULA TOWER	THR ELEVATION	13	
AFIS	119.205	BENBECULA INFORMATION	OBSTACLE ELEVATION 79 AMSL (66)(ABOVE THR)		
ATIS	129.885	BENBECULA INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.6%, 340FT/NM

DME BCL	7	6.2 (SDF)	6	5	4	3.2 (SDF)	3	2
ALT(HGT)	**2130**(2117)	**1860**(1847)	**1790**(1777)	**1450**(1437)	**1110**(1097)	**840**(827)	**770**(757)	**430**(417)

MAPt NDB(L) BBA
Danger Areas Not Active:
Climb straight ahead to **1700**. At **1700**, turn right to return to **NDB(L) BBA** at **3100**.
Note: No turns permitted before MAPt.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**330**(317)	**330**(317)	**330**(317)	**330**(317)		FT/MIN	910	790	680	570	450
VM(C)OCA (OCH AAL)	Total Area	**470**(451)	**710**(691)	**810**(791)	**810**(791)							

NOTES
1 FAT is offset 3.6° from RWY 24 C/L.
2 Procedures interact with Danger Areas EGD701A, 701B, 701C, 701Y and EGD704. Procedure available subject to ATC permission.
3 To commence procedure from hold, overhead NDB(L) BBA, fly baseturn manoeuvre on CAT A,B 198°, CAT C,D 185° for 1 MIN then turn right to return to the facility on 054° **not below 3100**.

CHANGE (11/25): MAG INFO. MAG TRACKS.

AERO INFO DATE 14 AUG 25 AD 2-EGPL-8-8

EGKB — BIGGIN HILL

EGKB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGKB — BIGGIN HILL

EGKB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 511951N Long: 0000157E
2	Direction and distance from city	12 NM SSE of London
3	Elevation / Reference temperature / Mean Low Temperature	584 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	149 FT
5	Magnetic Variation / Annual Change	0.59°E (2022) / 0.19°E
6	AD Administration	BIGGIN HILL AIRPORT LTD.
	Address	Biggin Hill Airport, Biggin Hill, Kent, TN16 3BH
	Telephone	01959-578500 (Admin) 01959-578525 (ATC/Ops/Fuel) 01959-578552 (Handling)
	Telefax	01959-540406 (Admin) 01959-576404 (Ops)
	SITA	BQHAPXH
	E-mail address	enquires@bigginhillairport.com
	Web address	www.bigginhillairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGKB AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).
2	Customs and immigration	UK Border Force available during AD operational hours. UK GAR (General Aviation Report) required prior to international arrivals.
3	Health and sanitation	As AD Hours.
4	AIS Briefing Office	As AD Hours.
5	ATS Reporting Office (ARO)	As AD Hours.
6	MET Briefing Office	As AD Hours.
7	ATS	See also AD 2.18.
8	Fuelling	As AD Hours.
9	Handling	As AD Hours.
10	Security	H24
11	De-icing	As AD Hours.
12	Remarks	Use of this aerodrome is strictly PPR. Operations are not permitted outside of aerodrome operating hours.

EGKB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Contact Biggin Hill Airport Flight Operations.
2	Fuel and oil types	JET A-1, Sustainable Aviation Fuel (SAF JET A-1), AVGAS 100LL Oils by arrangement.
3	Fuelling facilities/capacity	JET A-1 fuel truck, SAF JET A-1 fuel truck, AVGAS 100LL self serve pumps, truck on request. Defueling available on request.
4	De-icing facilities	Yes – Contact Biggin Hill Airport Flight Operations.
5	Hangar space for visiting aircraft	Yes.
6	Repair facilities for visiting aircraft	Yes.

7	Remarks	Mandatory handling applies to all non-based aircraft over a MTOW of 6001 KG. All non-based arrivals above a MTOW of 6001 KG must report to the Main Apron or nominated handling agent apron unless by prior arrangement (Biggin Hill Ops 01959-578525). Portable water, toilet servicing, GPU, airstart and airstairs all available. Biggin Hill Ops – Channel 131.790 Biggin Hill Executive Handling Handling and associated ground equipment for all light aircraft and business aviation aircraft up to B737/A320 size, larger aircraft on request.

EGKB AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels on the airport and in the vicinity.
2	Restaurants	Cafe, Bar. VIP and executive catering by arrangement
3	Transportation	Buses, taxis, car hire and limousines. Nearest railway stations: Bromley South and Orpington. Rail/Air link by shuttle bus.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Biggin Hill Village 1.5 miles.
6	Tourist Office	
7	Remarks	Passenger terminal plus two VIP lounges.

EGKB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFFS Category 7 accepted under remission.
2	Rescue equipment	1 4 x 4 Major Foam Tender. 3 6 x 6 Major Foam Tender.
3	Capability for removal of disabled aircraft	Refer to Airport Operations Manager or FSM.
4	Remarks	

EGKB AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical & Chemical De-icing.
2	Clearance priorities	Standard. See Airport Winter Operations Plan.
3	Remarks	Latest information from: Biggin Operations Tel: 01959-578525.

EGKB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON PCN 45/F/C/X/U Surface: Tarmac/Concrete. Some portions of the Main Apron have a slope of 2%. SOUTH EAST APRON Surface: Concrete PCN 45/R/C/X/U
2	Taxiway width, surface and strength	Taxiway ALPHA: 15 M Surface: Asphalt. Between A1-A2: Concrete. Taxiway BRAVO: 15 M Surface: Asphalt PCN 45/F/C/X/T Taxiway CHARLIE: 15 M Surface: Asphalt Engine run area width 35 M. Taxiway DELTA: 15 M Surface: Asphalt PCN 30/F/C/X/T

		Taxiway FOXTROT: 17 M Surface: Asphalt PCN 30/F/C/X/T
		Taxiway HOTEL: 15 M Surface: Asphalt PCN 45/F/C/X/T Taxiway JULIET: 15 M Surface: Asphalt Taxiway KILO: 15 M Surface: Asphalt Taxiway LIMA: 15 M Surface: Concrete and asphalt PCN 45/F/C/X/U
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGKB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	All aircraft are mashalled as required.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 03/21: Runway 03: Runway designation, displaced threshold, aiming point, centre-line. Runway 21: Runway designation, aiming point, centre-line, touchdown zone. Runway light(s): 03/21: Runway edge, stop end, PAPI. Taxiway marking aid(s): Yellow centre-line, taxiway holding position. Taxiway light(s): ALPHA: Green centre-line reflective studs. Between A3 and C Taxiway, Blue Edge Lights (Portable). BRAVO: Blue edge lights. CHARLIE: Blue edge lights (Portable). DELTA: Blue edge lights. FOXTROT: Blue edge lights (Portable). HOTEL: Blue edge lights. JULIET: Blue edge lights (Portable), green centre-line reflective studs. KILO: Green centre-line reflective studs. LIMA: Green centre-line reflective studs.
3	Stop bars and runway guard lights (if any)	Guard Lights at all Holding Points for Runway 03/21. Stop Bars at all Holding Points for Runway 03/21, Taxiway Holds F1 and F4, and at the following locations which are not associated with a Runway Holding Point: A2, A3, D2 and D3 Runway Link Taxiways. Stop Bars operational during aerodrome operational hours.
4	Other runway protection measures	
5	Remarks	Illuminated wind direction indicators west of Taxiway D between D1 and D2 (512013.35N 0000205.05E), and north of Foxtrot Taxiway between F1 and F3 (511925.46N 0000151.41E).

EGKB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKB9495) 21/APPROACH 03/ TAKE-OFF	TREE	512032.49N 0000219.24E	546 FT	70 FT	No	
(EGKB9504) 21/APPROACH 03/ TAKE-OFF	TREE	512030.82N 0000230.28E	534 FT	73 FT	No	
(EGKB9505) 21/APPROACH 03/ TAKE-OFF	TREE	512029.93N 0000230.55E	531 FT	67 FT	No	
(EGKB8277) 21/APPROACH 03/ TAKE-OFF	TREE	512023.76N 0000230.91E	535 FT	69 FT	No	
(EGKB6936) 21/APPROACH 03/ TAKE-OFF	TREE	512023.11N 0000230.96E	547 FT	83 FT	No	
(EGKB9516) 21/APPROACH 03/ TAKE-OFF	TREE	512022.45N 0000230.83E	557 FT	94 FT	No	
(EGKB6992) 21/APPROACH 03/ TAKE-OFF	TREE	512022.20N 0000229.95E	536 FT	66 FT	No	
(EGKB9517) 21/APPROACH 03/ TAKE-OFF	TREE	512021.69N 0000229.78E	544 FT	73 FT	No	
(EGKB9818) 03/APPROACH 21/ TAKE-OFF	STREETLIGHT	511927.54N 0000131.11E	592 FT	15 FT	No	
(EGKB9827) 03/APPROACH 21/ TAKE-OFF	STREETLIGHT	511925.35N 0000133.90E	594 FT	13 FT	No	
(EGKB9983) 03/APPROACH 21/ TAKE-OFF	MOBILE OBSTACLE	511925.19N 0000133.97E	595 FT	16 FT	No	
(EGKB9831) 03/APPROACH 21/ TAKE-OFF	STREETLIGHT	511924.38N 0000134.91E	594 FT	12 FT	No	
(EGKB10044) 03/APPROACH 21/ TAKE-OFF	LOCALISER	511924.01N 0000136.45E	593 FT	7 FT	Yes Red	
(EGKB9834) 03/APPROACH 21/ TAKE-OFF	STREETLIGHT	511923.87N 0000135.40E	594 FT	11 FT	No	
(EGKB9842) 03/APPROACH 21/ TAKE-OFF	STREETLIGHT	511921.93N 0000137.46E	598 FT	10 FT	No	
(EGKB9852) 03/APPROACH 21/ TAKE-OFF	STREETLIGHT	511920.82N 0000138.53E	602 FT	11 FT	No	
(EGKB10173) 03/APPROACH 21/ TAKE-OFF	TREE	511918.58N 0000138.48E	625 FT	41 FT	No	
(EGKB8166) 03/APPROACH 21/ TAKE-OFF	TREE	511918.08N 0000138.68E	632 FT	50 FT	No	
(EGKB9885) 03/APPROACH 21/ TAKE-OFF	TREE	511916.50N 0000138.69E	635 FT	62 FT	No	
(EGKB9882) 03/APPROACH 21/ TAKE-OFF	TREE	511852.00N 0000112.14E	667 FT	70 FT	No	
(EGKB9767) 03/APPROACH 21/ TAKE-OFF	TREE	511850.67N 0000109.11E	672 FT	75 FT	No	
(EGKB9756) 03/APPROACH 21/ TAKE-OFF	TREE	511847.91N 0000117.58E	677 FT	78 FT	No	
(EGKB9881) 03/APPROACH 21/ TAKE-OFF	TREE	511846.52N 0000110.44E	679 FT	75 FT	No	
(EGKB9872) 03/APPROACH 21/ TAKE-OFF	TREE	511841.53N 0000122.06E	707 FT	94 FT	No	
(EGKB7965) 03/APPROACH 21/ TAKE-OFF	TREE	511839.40N 0000114.33E	688 FT	58 FT	No	
(EGKB9878) 03/APPROACH 21/ TAKE-OFF	TREE	511831.05N 0000111.17E	714 FT	79 FT	No	
(EGKB9353) 03/APPROACH 21/ TAKE-OFF	TREE	511822.09N 0000105.01E	718 FT	68 FT	No	
(EGKB7101) 03/APPROACH 21/ TAKE-OFF	TREE	511810.40N 0000048.27E	762 FT	84 FT	No	
(EGKB9307) 03/APPROACH 21/ TAKE-OFF	TREE	511733.73N 0000035.02E	844 FT	73 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKB8005) 03/APPROACH 21/ TAKE-OFF	MAST	511729.35N 0000003.88W	881 FT	97 FT	No	
(EGKB9302) 03/APPROACH 21/ TAKE-OFF	TREE	511718.41N 0000031.86E	887 FT	65 FT	No	
(EGKB9316) 03/APPROACH 21/ TAKE-OFF	MAST LIGHTNING CONDUCTOR	511708.93N 0000034.70E	1021 FT	185 FT	No	
(EGKB8003) 03/APPROACH 21/ TAKE-OFF	TREE	511707.60N 0000004.94E	938 FT	89 FT	No	
(EGKB7995) 03/APPROACH 21/ TAKE-OFF	MAST	511645.20N 0000049.23W	1008 FT	137 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKB7231)	COMMS MAST	512033.57N 0000212.43E	592 FT	118 FT	Yes Red	
(EGKB9251)	TREE	511914.18N 0000419.83E	695 FT	100 FT	No	
(EGKB9163)	TREE	511840.02N 0000502.74E	751 FT	74 FT	No	
(EGKB9272)	TREE	511825.68N 0000033.88W	794 FT	67 FT	No	
(EGKB9168)	TREE	511819.07N 0000451.15E	844 FT	115 FT	No	
(EGKB7994)	MAST	511811.57N 0000059.54W	877 FT	121 FT	Yes Red	
(EGKB9147)	TREE	511808.58N 0000248.94E	768 FT	59 FT	No	
(EGKB9151)	TREE	511807.28N 0000309.48E	787 FT	66 FT	No	
(EGKB9155)	TREE	511800.11N 0000312.60E	819 FT	94 FT	No	
(EGKB9428)	TREE	511752.28N 0000214.03E	790 FT	98 FT	No	
(EGKB7992)	MAST	511750.15N 0000058.71W	927 FT	126 FT	No	
(EGKB9059)	TREE	511738.05N 0000215.57E	816 FT	86 FT	No	
(EGKB9096)	TREE	511727.59N 0000321.43E	875 FT	88 FT	No	
(EGKB9092)	TREE	511718.23N 0000301.30E	905 FT	95 FT	No	
(EGKB9066)	TREE	511718.05N 0000220.68E	864 FT	78 FT	No	
(EGKB9012)	TREE	511714.78N 0000101.52E	928 FT	96 FT	No	
(EGKB9000)	MAST LIGHTNING CONDUCTOR	511704.52N 0000050.98E	987 FT	122 FT	Yes Red	

EGKB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours.

4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing located in the Crew Facility.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	Self briefing terminal (internet) located in Biggin Operations.
9	ATS units provided with information	BIGGIN HILL THAMES DIRECTOR
10	Additional information (limitation of service, etc.)	Weather Broadcast on ATIS 135.680 MHz.

EGKB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
03	025.71°	1806 x 45 M	RWY surface: Macadam, Grooved PCN 45/F/C/X/U	511932.44N 0000142.18E 148.7 FT	THR 577.2 FT	RWY 03 1.13% down RWY 21 1.13% up
21	205.71°	1806 x 45 M	RWY surface: Macadam, Grooved PCN 45/F/C/X/U	512017.72N 0000216.98E 148.7 FT	THR 516.8 FT TDZ 549.8 FT	RWY 03 1.13% down RWY 21 1.13% up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
	394 x 150 M	1792 x 280 M	240 x 90 M -			RWY 03 Threshold displaced by 251 M. Landing distance remaining may be difficult to assess under certain conditions due to runway profile. At threshold, sight distance at 3 M eye height approximately 720 M. At aiming point, sight distance at 3 M eye height approximately 540 M.
	134 x 150 M	1792 x 280 M	90 x 90 M -			RWY 21 Threshold displaced by 2 M. Landing distance remaining may be difficult to assess under certain conditions due to runway profile. At threshold, sight distance at 3 M eye height approximately 780 M. At aiming point, sight distance at 3 M eye height approximately 480 M. ATZ extended to 2.5 NM to cover Runway 21 IFR Noise Preferential Departures.

EGKB AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	1781 M	2175 M	1781 M	1555 M	
21	1670 M	1804 M	1670 M	1670 M	

EGKB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	Centre-line with one crossbar. 363 M Light intensity high	Green wingbars	PAPI Left/4° 43 FT 220 M			HI elev bi-directional with LI omni-directional component	Stop end Red		EDGE: Runway edge lights approximately 4 M beyond the declared runway width.
21	Coded centre-line with three crossbars. 420 M Light intensity high	Green wingbars	PAPI Left/3° 50 FT 231 M			HI elev bi-directional with LI omni-directional component	Stop end Red		EDGE: The last 600 M of runway edge lights are coloured yellow to designate the runway stop end caution zone. Runway edge lights approximately 4 M beyond the declared runway width.

EGKB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 512012.75N 0000205.15E (LGTD) - 511930.98N 0000147.21E (LGTD)
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes. 15 seconds. Battery back-up.
5	Remarks	Main Apron floodlighting. Blue edge lights on main apron

EGKB AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF WEST: 511923.06N 0000149.66E, 148.7 FT
2	TLOF and/or FATO elevation	TLOF WEST: 596.5 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Helicopters are routed under ATC instructions. Those parking on the main apron will be marshalled. Helicopters should expect to arrive and depart from marked runways. Helicopter Landing Site located on Foxtrot Taxiway.

EGKB AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BIGGIN HILL ATZ A circle, 2.5 NM radius, centred at 511951N 0000157E on longest notified runway (03/21)	Upper limit: 2000 FT AGL Lower limit: SFC	G	BIGGIN TOWER English	6000 FT		Note: London Terminal Control (Swanwick) is the controlling authority for that part of the ATZ from 1900 FT aal to 2000 FT aal.

EGKB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	BIGGIN APPROACH	129.405 DOC 25 NM/ 10,000 FT.			Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	ATZ hours coincident with Approach hours. Pilots of inbound IFR flights requiring a Deconfliction Service or Traffic Service are to contact Thames Director on 128.025 MHz. Pilots of all VFR flights or inbound IFR flights NOT requiring a surveillance service are to contact Biggin Approach. VDF 511928.99N 0000150.59E Warning - Pilots must not enter the Biggin Hill ATZ during notified hours without prior permission.
TWR	BIGGIN TOWER	134.805 When directed by ATC. DOC 25 NM/4,000 FT.			Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	VDF 511928.99N 0000150.59E
ATIS	BIGGIN HILL INFORMATION	135.680 DOC 60 NM/ 20,000 FT.			Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	Weather Broadcast on ATIS
OTHER	BIGGIN FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGKB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.39°E (2027)	IBGH	109.350 MHz	Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	511924.15N 0000135.81E		(RWY 21) 286 M from THR 03. False Localiser Capture may be experienced when approaching RWY 21 from the Northeast.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/GP	IBGH	331.850 MHz	Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	512013.30N 0000206.12E		3° ILS Ref Datum Hgt 50 FT.
ILS/DME	IBGH	30Y 109.350 MHz	Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	512013.28N 0000206.10E	570 FT	(RWY 21) On AD. DME freq paired with ILS I-BGH. Zero range is indicated at THR of Runway 21. DOC 25 NM/25000 FT.
VOR/DME 1.39°E (2027) 1.1°E (2024)	BIG	98X 115.100 MHz	H24 Hours of operation for aerodrome purposes: Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	511951.15N 0000205.32E	589 FT	VOR DOC: 20 NM/50,000 FT (30 NM/50,000 FT in Sector R259-314 and 45 NM/50,000 FT in Sector R314-344). DME DOC: 60 NM/50,000 FT (125 NM/50,000 FT in Sector R284-044 and 100 NM/50,000 FT in Sector R044-134). Due to terrain, coverage at low level is reduced in Sector R114-219. In addition DME unlocks may occur in Sector R004-039 at ranges up to 25 NM.
VOR/DME 1.58°E (2027) 1.2°E (2023)	DET	120X 117.300 MHz	H24 Hours of operation for aerodrome purposes: Mon-Fri 0630-2300 (0530-2200); Sat, Sun and PH 0800-2200 (0700-2100).	511814.41N 0003550.19E	645 FT	VOR DOC: 20 NM/50,000 FT (35 NM/50,000 FT in Sector R289-029 and 45 NM/50,000 FT in Sector R249-289). DME DOC: 60 NM/50,000 FT.

EGKB AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Not available to aircraft unable to communicate with ATC.
b) Aerobatic manoeuvres and low flypasts are prohibited unless prior approval has been given by the aerodrome operator.
c) Microlight flying is prohibited at this airport.
d) Prior to use of this aerodrome, the terms and conditions are to be obtained from the aerodrome operator.
e) All international flights must provide a completed GAR (General Aviation Report) prior to arrival.
f) Biggin Hill Airport is PPR for all aircraft movements. PPR can be obtained directly by use of the booking form at www.bigginhillairport.com (General Aviation Tab) or at www.Bigginbooking.com. The booking form should be submitted a minimum of 30 minutes prior to ETD or ETA. The filing of a Flight Plan (FPL) complies with the requirement to obtain PPR.
g) All personnel must wear hi-visibility personal protective equipment whilst operating on the aprons.
h) Biggin Hill Airport does not permit cost sharing flights advertised through online “flight sharing” platforms. Flights suspected to be operated under this premise may be subject to operational restrictions and are expressly prohibited by the airport authority.
i) Winter Operations - Biggin Hill Airport adheres to a clean aircraft policy with regards to de-icing/anti-icing of aircraft.
j) Drone (UAV) operators requesting to operate within the Biggin Hill FRZ must gain permission through the Biggin Hill Airport Drone Authorisation portal: https://bigginhillairport.com/community/noise/drones/.

2 GROUND MOVEMENT

a) Caution reduced wing tip clearance between taxiing and parked aircraft on Main Apron. Marshalling guidance provided.
b) Aircraft taxiing from any ramp/apron must use minimum power until established on the taxiway centre-line. When calling for start, ramp position must be passed to ATC.

c) Due to the number of personnel and vehicles operating on the Main Apron, pilots are to operate at minimum taxiing speed when approaching or transiting this area.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The only visual signals are light signals.
b) Windshear and turbulence may be experienced on short final for Runway 03 when the wind is from the northwest.
c) Pilots of departing aircraft are warned of the presence of other aircraft joining the visual circuit from the 'Deadside'. The joining aircraft will fly across the mid point of the runway in use at altitude of 1584 FT (1000 FT AAL) at 90° to the runway heading before turning left/ right onto the downwind leg. Pilots of high performance fast climbing aircraft should be particularly alert.
d) Obstacle marking and lighting: Control Tower, VOR/DME site, hangars and anemometer east of Runway 03 threshold. ILS glidepath and localizer sites, anemometer mast and Northern Terminal Hangar.
e) Aircraft under tow at night may not be displaying nav/anti-collision lights.
f) Sections of Taxiway Foxtrot exceed the maximum longitudinal slope requirements and therefore the sight distance requirements as per CAP 168, Chapter 3.
g) A section of the taxiway graded area to the north of Taxiway Foxtrot has an up slope of 5.8%.

5 HELICOPTER OPERATIONS

a) In order to avoid noise sensitive areas surrounding the aerodrome, helicopters must conform to normal fixed-wing joining, departure and circuit procedures unless otherwise instructed by ATC.
b) Pilots of helicopters should take particular note of a noise sensitive area on the northern aerodrome boundary prohibiting close right-base approaches for Runway 21 or direct departures to the north from Runway 03.

6 USE OF RUNWAYS

a) The width at both ends of Runway 03/21, is twice that delineated by the associated edge lights due to extra pavement at one side. Since runway centre-line lighting is not installed, pilots should ensure that they are correctly lined up, especially if take-off is at night or when the runway is contaminated or in low visibility.
b) Except where a public transport operator has a lower State authorised take-off minima, the Aerodrome Authority cannot approve departures in RVR conditions of less than 400 M.

7 TRAINING

a) Use of the aerodrome for training is subject to the following:

   i. The aerodrome is not available for circuit and instrument approach training by non-Biggin Hill based aircraft of less than 3000 KG MTWA.
   ii. The number of aircraft in the visual circuit will be determined by ATC, subject to the prevailing weather conditions and other commercial or corporate traffic.
   iii. The aerodrome is not available to Student Pilots unless accompanied by an appropriately qualified pilot.
   iv. A booking system exists for instrument training. The filing of a flight plan does not constitute a booking. Contact Biggin Hill ATC on +44 (0)1959-578522 for all instrument training bookings.
   v. Circuit Training may be suspended during periods of high traffic density.

EGKB AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) Every operator of aircraft using the airport shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in the area surrounding the airport.
b) Only those aircraft meeting ICAO Chapter 3 criteria or better will be accepted. Contact Flight Operations on +44 (0)1959-578500.
c) Pilots are requested to avoid the use of reverse thrust or reverse pitch above idle power settings on landing, consistent with the safe operation of the aircraft.
d) Due to the close proximity of residential areas, ground running of engines or Auxiliary Power Units (APU) shall be kept to a minimum consistent with operational requirements. At no time shall APUs be run for more than 30 minutes without Aerodrome Operator consent.
e) The use of the Noise Preferential Routings is supplementary to the noise abatement take-off techniques published by specific aircraft manufacturers.
f) The Noise Preferential Routings may at any time be departed from to the extent necessary for avoiding immediate danger.

2 NOISE ABATEMENT PROCEDURES - IFR DEPARTURES

a) **Runway 21/03 IFR Departures**

i. London Biggin Hill Airport is located close to densely populated and largely residential areas. In order to support operating hours that include night time aircraft operations, compliance with NPRs is required and is enforced by a Noise Monitoring and Track Keeping System (NMTKS).
ii. Aircraft failing to comply with NPRs and/or noise limits may be subject to additional charges as set out in the London Biggin Hill Airport Schedule of Fees and Charges. As with other London airports, frequent or repeated noise and/or track violations may result in a permanent exclusion from the airport.
iii. Calibrated Noise Monitors are located approximately 1 KM from the threshold of each runway and lie directly under the approach and departure path. Additionally, a mobile noise monitor may be positioned anywhere from time to time deemed appropriate by the airport operator. Nominal departure track limits are programmed into the NMTKS along with minimum heights set at two points in the standard departure route.

b) **Runway 21 Departures**

i. On departure speed should be restricted to V2+25 KIAS and in any case no more than 185 KIAS, in accordance with the Standard Departure Route (SDR), until passing over BIG eastbound in order to achieve the best practical angle of climb whilst keeping thrust to the minimum required for an expeditious departure.
ii. Following rotation, runway track should be maintained accurately.
iii. On crossing the upwind end of Runway 21, an immediate right turn should be commenced to track 220° M in order to avoid residential housing located at Norheads Farm. In accordance with the SDR, a right turn should be commenced promptly at BIG 1 DME in order to route back over the airfield on track towards DET. Speed in excess of 185 KIAS will result in a radius of turn which exceeds the designated track limits and may therefore result in a track violation. In strong south/southwesterly winds, particular attention should be given to radius of turn.
iv. In order to safely maintain the relatively low speed mandated by this procedure and dependent upon aircraft type, consideration should be given to delaying flap retraction until passing BIG outbound at or above 2100 FT AMSL in order to ensure a sufficiently tight radius of turn is achievable.
v. The procedure is designed to prevent unnecessary overflight of the built up areas lying to the north of the airport. Pilots should pay particular attention to avoiding overflight of these areas. Achieving the correct radius of turn is therefore essential.
vi. Additionally, an altitude limit violation will occur if the noise monitor at Norheads Farm is overflown below 1000 FT AMSL (400 FT AAL) or the BIG is overflown below 2100 FT AMSL.

c) **Runway 03 Departures**

i. On departure speed should be restricted to V2+25 KIAS and in any case no more than 185 KIAS until at or above 2100 FT AMSL in order to achieve the best practical angle of climb whilst keeping thrust to the minimum required whilst at low level.
ii. Following rotation, runway track should be maintained accurately. Upon reaching BIG 1 DME aircraft should commence an immediate right turn to DET in accordance with the Standard Departure Route (SDR).
iii. In order to safely maintain the relatively low speeds required by this procedure and dependent upon aircraft type, consideration should be given to delaying flap retraction until at or above 2100 FT AMSL in order to ensure a sufficiently tight radius of turn is achieved.
iv. The procedure is designed to prevent unnecessary overflight of the built up areas lying to the north of the airport. Pilots should pay particular attention to avoiding overflight of these areas. Excessive speed on departure or a failure to commence a right turn immediately upon reaching BIG 1 DME will likely result in a track violation.
v. Additionally, a limit violation will occur if the noise monitor at Milking Lane Farm is overflown below 1000 FT AMSL (400 FT AAL) or 2100 FT AMSL is not achieved after 5 track miles.

d) **General Exclusion**

Pilots should note that none of these provisions will apply in any emergency. Commanders must place the safety of their aircraft ahead of published NPR requirements.

3 VFR NOISE ABATEMENT PROCEDURES

a) London Biggin Hill Airport is located close to densely populated and largely residential areas. In order to support extended operating hours that include night time aircraft operations, compliance with NPRs is required and is enforced by a Noise Monitoring and Track Keeping System (NMTKS).
b) Aircraft failing to comply with NPRs and/or noise limits may be subject to additional charges as set out in the London Biggin Hill Airport Schedule of Fees and Charges. As with other London airports, frequent or repeated noise and/or track violations may result in a permanent exclusion from the airport.
c) Calibrated Noise Monitors are located approximately 1 KM from the threshold of each runway and lie directly under the approach and departure path. Additionally, a mobile noise monitor may be positioned anywhere from time to time deemed appropriate by the airport operator. Nominal ‘no fly’ zones over Keston, Downe, Farnborough and Orpington are programmed into the NMTKS along with minimum heights set at each noise monitor.
d) **Runway 21 Departures**

i. All aircraft departing Runway 21 VFR are required to turn right, after passing the aerodrome boundary, to make good a track of 220° M:

1. aircraft departing to the west via Kenley should continue to 1 NM, before turning right and setting course, avoiding the villages of Woldingham and Warlingham;
2. aircraft departing to the east or northeast via Sevenoaks or Swanley should continue to 2 NM before turning left and tracking to the southeast, remaining south and east of Tatsfield Village. A useful visual reference for the turn is to remain south of the Tatsfield golf course;

3. once an aircraft has left the ATZ, it should not re-enter the ATZ without the appropriate ATC clearance. Aircraft intending to route to via Swanley should ensure that they arrange their flight in order to avoid the eastern limits of the ATZ whilst tracking northeast. **CAUTION** – there may be numerous aircraft joining from the east.

e) **Runway 03 Departures**

i. Aircraft departing Runway 03 are required to climb straight ahead until 1NM:

1. aircraft departing to the west via Kenley to make a left turn en-route to leave the ATZ
2. aircraft departing east or southeast via Sevenoaks or northeast via Swanley, to leave the ATZ en-route. **CAUTION** – there may be numerous VFR aircraft joining from the east;
3. aircraft departing to the north, continue en-route but avoiding overflight of the Noise Sensitive Areas of Orpington and Chelsfield. Expect an early frequency change to the next agency, due to the close proximity of London Heathrow and London City CTAs;
4. all pilots must in all cases avoid overflight of the residential areas to the north and east especially Keston, Farnborough, Orpington and Downe.

f) **Visual Circuits**

i. All circuits at London Biggin Hill Airport are conducted to the west of the aerodrome (Right Hand - Runway 21, Left Hand - Runway 03). Overflight of the following Noise Sensitive Areas should be avoided, unless necessary to fulfil an ATC instruction such as to extend downwind for spacing, Keston Village, The Leavesdon Estate and Leaves Green. Aircraft with an approach speed category of A or B that are unable to comply with these requirements should not plan to make use of London Biggin Hill Airport.
ii. Aircraft joining the visual circuit from the east or southeast should avoid overflight of the Noise Sensitive Areas of Downe Village and Biggin Hill Village.

g) **Noise Sensitive Areas**

i. The NMTKS will track all aircraft arriving at and departing from London Biggin Hill Airport. Aircraft entering a Noise Sensitive Area will automatically become the subject of a track violation report which will be considered by the airport Noise Abatement and Safety Review Board (SANARB) for consideration of a penalty charge. All penalty charges levied are donated to local good causes. In the case of repeated violations of wither noise or track limits, permanent exclusion from the airport may result.

EGKB AD 2.22 FLIGHT PROCEDURES

1 CIRCUIT PROCEDURES

a) Aircraft taking off, 'going around' or making 'touch and go' landings are to remain at or below 500 FT QFE until the upwind end of the runway in use has been passed, when a left or right turn (as appropriate) should be initiated. Aircraft joining the circuit for landing are to fly across the mid-point of the runway in use at 1000 FT QFE at 90° to the runway heading, a left or right turn (as appropriate) should be made onto the downwind leg.
b) Variable circuits - LH on Runway 03, RH on Runway 21. Circuit heights are 1000 FT QFE (1600 FT QNH) at all times.

2 STANDARD DEPARTURE ROUTES - VIA ATS ROUTE NETWORK

Departure to	Designator	Via	Route
North	Brookmans Park 2 (BPK 2)	L10/N601	DET - N601 - BPK
Northeast	DAGGA 2 (Note 5)	M604	DET - M604 - DAGGA
Southeast	Dover 2 (DVR 2)	L9/L10/Q70	DET - L6 - DVR/DET - Q70 - VABIK
South & southwest	Lydd 2 (LYD 2)	M189	DET - LYD
West	SAXBI 2	N27	DET - N601 - BPK - SAXBI

Note 1: *Departures from Runway 21, follow Noise Abatement Procedure turning right to pass overhead BIG VOR at 2400 FT ALT.*

Note 2: *Departures from Runway 03, after noise abatement, turn right to intercept DET VOR RDL 275° to DET.*

Note 3: *When established on DET VOR RDL 275°, not above 2500 FT ALT until 9 DME DET, then to 4 DME DET at 4000 FT ALT.*

Note 4: *For positioning flights to London Luton/London Stansted, follow BPK 2 SDR to DET then join DET 2A, at altitude as directed by ATC.*

Note 5: *Cross DET VOR/DME fix 017°/7 NM at 5000 FT ALT.*

3 OUTBOUND IFR TRAFFIC OUTSIDE CONTROLLED AIRSPACE

IFR traffic departing from Biggin Hill will be co-ordinated with 'Thames Director'.

Note 1: *Caution -Kenley Aerodrome and associated glider flying.*

Note 2: *IFR Training Flights intending to utilize the services of 'Thames Director' are to obtain prior approval from Biggin Hill ATC, Tel: 01959-578525.*

4 PROCEDURES FOR INBOUND AIRCRAFT

a) **Standard Arrival Routes Biggin Hill**

i. The standard routes for inbound aircraft are detailed in the Standard Arrival Routes (STAR) shown at AD 2-EGLC-7-STAR Charts (and associated database coding tables).

b) **RNAV1 IFR Arrivals from the ATS En-Route Structure via JACKO or GODLU**

i. Runway 21: Aircraft and crews equipped and approved for RNAV1 operations can expect to be cleared to fly the RNAV1 Transition for Runway 21 as detailed in AD 2-EGKB-7-1 (and its associated data base coding table) and then complete an appropriate approach procedure for Runway 21.

ii. Runway 03: Aircraft and crews equipped and approved for RNAV1 operations can expect to be cleared to fly the RNAV1 Transition for Runway 21 as detailed in AD 2-EGKB-7-1 (and its associated database coding table) followed by an instrument approach to Runway 21 and then circle to land on Runway 03 – this is subject to ATC clearance, weather minima and traffic conditions. Please note Visual Manoeuvring (Circling) is conducted west of the aerodrome.

c) **Non-RNAV1 IFR Arrivals from the ATS En-Route Structure via JACKO or GODLU**

i. After passing JACKO or GODLU, non-RNAV1 arrivals will be vectored by ATC for arrival at Biggin Hill prior to transfer to Biggin Hill for the appropriate approach procedure. In the event of RCF the procedures detailed in EGKB AD 2.22 paragraph 6 are to be followed.

5 VFR/IFR FLIGHTS

a) **Traffic Services Outside Controlled Airspace**

i. VFR arrivals, departures and overflights:

Pilots should state the type of service required. If no specific service is requested by the pilot, these flights will be provided with a Basic Service by default.

ii. IFR arrivals following an Instrument Approach and departures via Standard Departure Routes:

Unless otherwise requested by the pilot, these flights will be provided with a Procedural Service by default.

iii. IFR arrivals and departures:

Pilots of inbound flights intending to commence a visual approach and departing flights on routes other than standard departure routes should state the type of service required. If no specific service is requested, a Basic Service will be provided.

iv. IFR overflights:

Pilots of these flights should state the type of service required (Basic Service or Procedural Service).

b) **VFR Arrival Procedures**

All inbound aircraft should comply with ATC instructions where possible.

i. VFR Arrivals from the East:

Pilots should make first contact with Biggin Approach no later than 5 NM from Biggin Hill. Unless ATC issue alternative joining instructions, all aircraft should route and report 3 NM due east of Biggin Hill Airport (*Note 1*) descending to circuit height of 1000 FT QFE (altitude 1600 FT QNH) (*Note 2*), route over the mid-point of Runway 21/03 and turn downwind left-hand or right-hand as required.

Note 1: *Due to Runway 03 departure procedures, pilots should at all times avoid routing towards the north-eastern section of the Biggin Hill ATZ. Pilots should not turn towards the Biggin Hill ATZ until south of M25 Junction 4 (remaining at least 5 NM away from Biggin Hill) or as directed by Biggin Hill ATC.*

Note 2: *Pilots should arrange their flight to be level at circuit height no later than 3 NM from Biggin Hill unless there is conflicting traffic.* ***Caution****: aircraft leaving the Biggin Hill ATZ between altitude 2000-2400 FT QNH eastbound.*

ii. VFR Arrivals from the North, West and South:

Pilots should make first contact with Biggin Hill Approach at the earliest opportunity, in all cases, no later than 5 NM from Biggin Hill Airport. All inbound aircraft shall route as directed by Biggin Hill ATC and be level at circuit height of 1000 FT QFE (altitude 1600 FT QNH) no later than 3 NM from Biggin Hill unless there is conflicting traffic.

Caution: Aircraft joining from the west should avoid overflying Kenley Gliding site.

c) Traffic Information is derived from pilots reports and Aerodrome Traffic Monitor (ATM) data.

6 RADIO COMMUNICATION FAILURE PROCEDURES

In the event of complete Radio Communication Failure (RCF) in an aircraft, the pilot is to adopt the appropriate procedure in ENR 1.1 paragraph 3.4 except where described below:

a) **Inbound RNAV 1 Aircraft via JACKO or GODLU**

i. **Via JACKO**

1. **RCF occurring prior to arrival at JACKO**. The pilot is to adopt the RCF procedures detailed in ENR 1.1 paragraph 3.4.2.2.4 squawking Mode A 7600 when the RCF is detected. On leaving the JACKO hold, follow the routing JACKO – BABKU direct RAVSA – GAPGI – ATPEV – LCE07 – OSVEV, complying with the vertical profile shown on the chart, then route to ALKIN and continue in accordance with the standard procedures from ALKIN.
2. **RCF occurring on the sequencing leg after JACKO**. Squawk Mode A 7600. Fly at the last assigned level to the end of the sequencing leg at LCE23, route RAVSA – GAPGI – ATPEV – LCE07 – OSVEV, complying with the vertical profile shown on the chart, then route to ALKIN and continue in accordance with the standard procedures from ALKIN.
3. **RCF occurring having been cleared off the sequencing leg**. Squawk Mode A 7600. Fly direct to RAVSA – GAPGI – ATPEV – LCE07 – OSVEV complying with the vertical profile shown on the chart, then route to ALKIN and continue in accordance with the standard procedures from ALKIN.

ii. **Via GODLU**

1. **RCF occurring prior to arrival at GODLU**. The pilot is to adopt the RCF procedures detailed in ENR 1.1 paragraph 3.4.2.2.4 squawking Mode A 7600 when the RCF is detected. On leaving the GODLU hold, follow the routing GODLU – ELMIV direct RAVSA – GAPGI – ATPEV – LCE07 – OSVEV, complying with the vertical profile shown on the chart, then route to ALKIN and continue in accordance with the standard procedures from ALKIN.
2. **RCF occurring on the sequencing leg after GODLU**. Squawk Mode A 7600. Fly at the last assigned level to the end of the sequencing leg at LCE13, route RAVSA – GAPGI – ATPEV – LCE07 – OSVEV, complying with the vertical profile shown on the chart, then route to ALKIN and continue in accordance with the standard procedures from ALKIN.
3. **RCF occurring having been cleared off the sequencing leg**. Squawk Mode A 7600. Fly direct to RAVSA – GAPGI – ATPEV – LCE07 – OSVEV complying with the vertical profile shown on the chart, then route to ALKIN and continue in accordance with the standard procedures from ALKIN.

b) **Inbound Non-RNAV 1 Aircraft via JACKO or GODLU**

In the event of complete (RCF) in an aircraft, the pilot is to adopt the appropriate procedure described at ENR 1.1 paragraph 3.4.2.2.4 until reaching JACKO or GODLU. When ready to commence an arrival procedure, the pilot is to follow the procedure as detailed below.

i. **Via JACKO**

Route via JACKO (FL 80) – TRIPO (6000 FT) – SPEAR (5000 FT) – ALKIN (3000 FT) and continue in accordance with the standard procedures from ALKIN.

ii. **Via GODLU**

Route via GODLU (FL 100) – DET (4000 FT) – ALKIN (3000 FT) and continue in accordance with the standard procedures from ALKIN.

Note: *Due to the proximity of the London Control Zone aircraft shall not track further west than the BIG 350R, where the aircraft shall make a left turn direct to ALKIN and continue in accordance with the standard procedures from ALKIN.*

c) **Outbound Aircraft**

i. For the purposes of RCF, the climb to flight planned level should be commenced after the last position shown in the standard departure routes where an altitude or flight level is specified.

7 INSTRUMENT APPROACH PROCEDURES (IAP)

Instrument Approach Procedures for this aerodrome are established outside controlled airspace. See ENR 1.5.

EGKB AD 2.23 ADDITIONAL INFORMATION

a) Mode S Barometric Pressure Setting Data

London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

EGKB AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGKB-2-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGKB-5-1
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 21 OSVEV 1G 1J - ICAO
AD 2.EGKB-7-1
APPROACH TRANSITIONS CODING TABLES - RWY 21 OSVEV 1G 1J
AD 2.EGKB-7-2
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 21 (CAT A,B,C) - ICAO
AD 2.EGKB-8-1
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 21 (CAT A,B,C) - ICAO
AD 2.EGKB-8-2
INSTRUMENT APPROACH CHART VOR/DME RWY 21 (CAT A,B,C) - ICAO
AD 2.EGKB-8-3

EGKB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

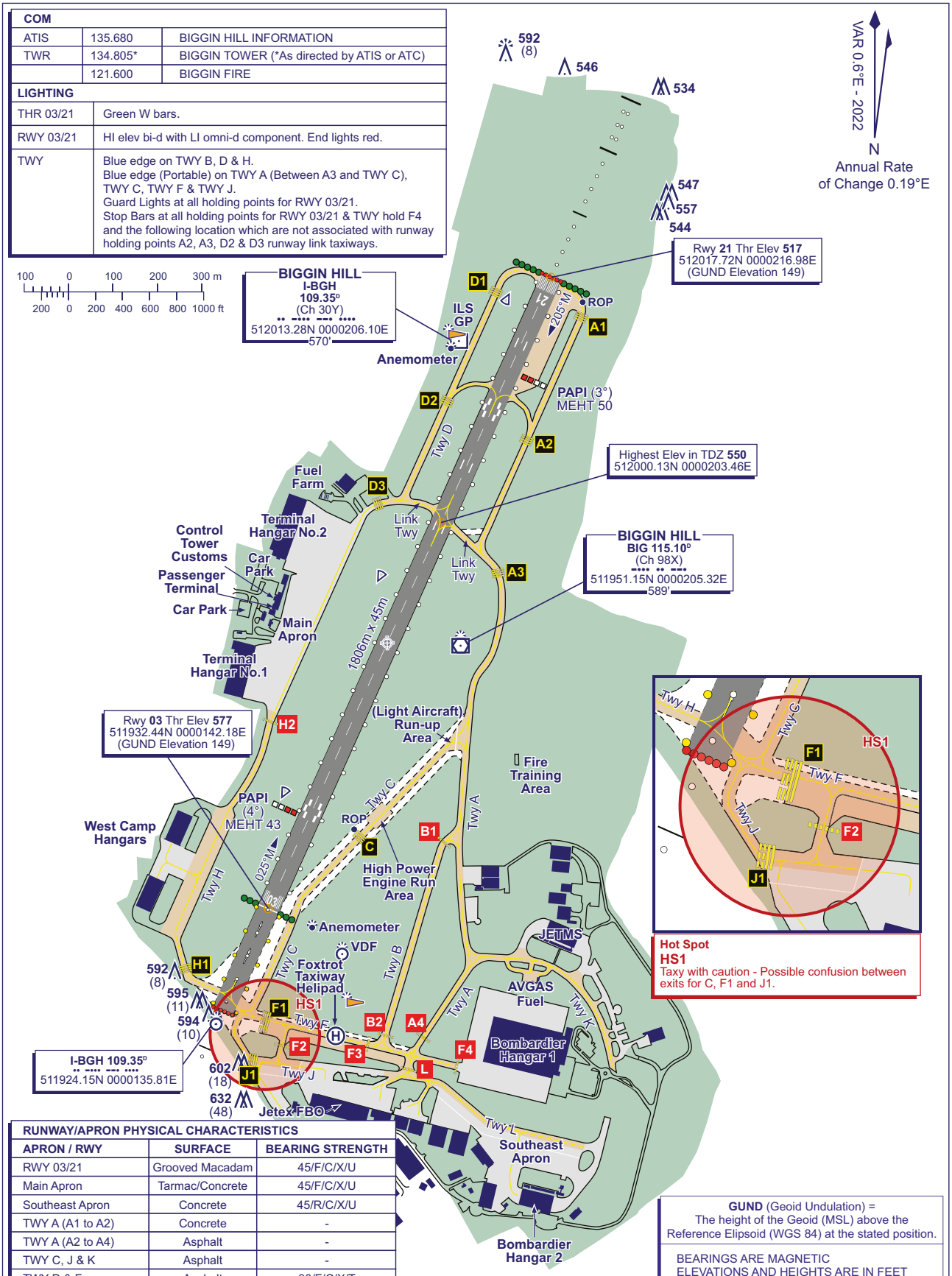
ARP 511951N 0000157E

AD ELEV 584FT

BIGGIN HILL
EGKB

COM		
ATIS	135.680	BIGGIN HILL INFORMATION
TWR	134.805*	BIGGIN TOWER (*As directed by ATIS or ATC)
	121.600	BIGGIN FIRE

LIGHTING	
THR 03/21	Green W bars.
RWY 03/21	HI elev bi-d with LI omni-d component. End lights red.
TWY	Blue edge on TWY B, D & H. Blue edge (Portable) on TWY A (Between A3 and TWY C), TWY C, TWY F & TWY J. Guard Lights at all holding points for RWY 03/21. Stop Bars at all holding points for RWY 03/21 & TWY hold F4 and the following location which are not associated with runway holding points A2, A3, D2 & D3 runway link taxiways.



Hot Spot
HS1
Taxy with caution - Possible confusion between exits for C, F1 and J1.

RUNWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY	SURFACE	BEARING STRENGTH
RWY 03/21	Grooved Macadam	45/F/C/X/U
Main Apron	Tarmac/Concrete	45/F/C/X/U
Southeast Apron	Concrete	45/R/C/X/U
TWY A (A1 to A2)	Concrete	-
TWY A (A2 to A4)	Asphalt	-
TWY C, J & K	Asphalt	-
TWY D & F	Asphalt	30/F/C/X/T
TWY B & H	Asphalt	45/F/C/X/T
TWY L	Asphalt/Concrete	45/F/C/X/U

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	632
HEIGHTS IN FEET ABOVE AD	(48)

CHANGE (11/25): STOP BAR DESCRIPTIVE EDITORIAL.

AERO INFO DATE 13 AUG 25

AD 2-EGKB-2-1

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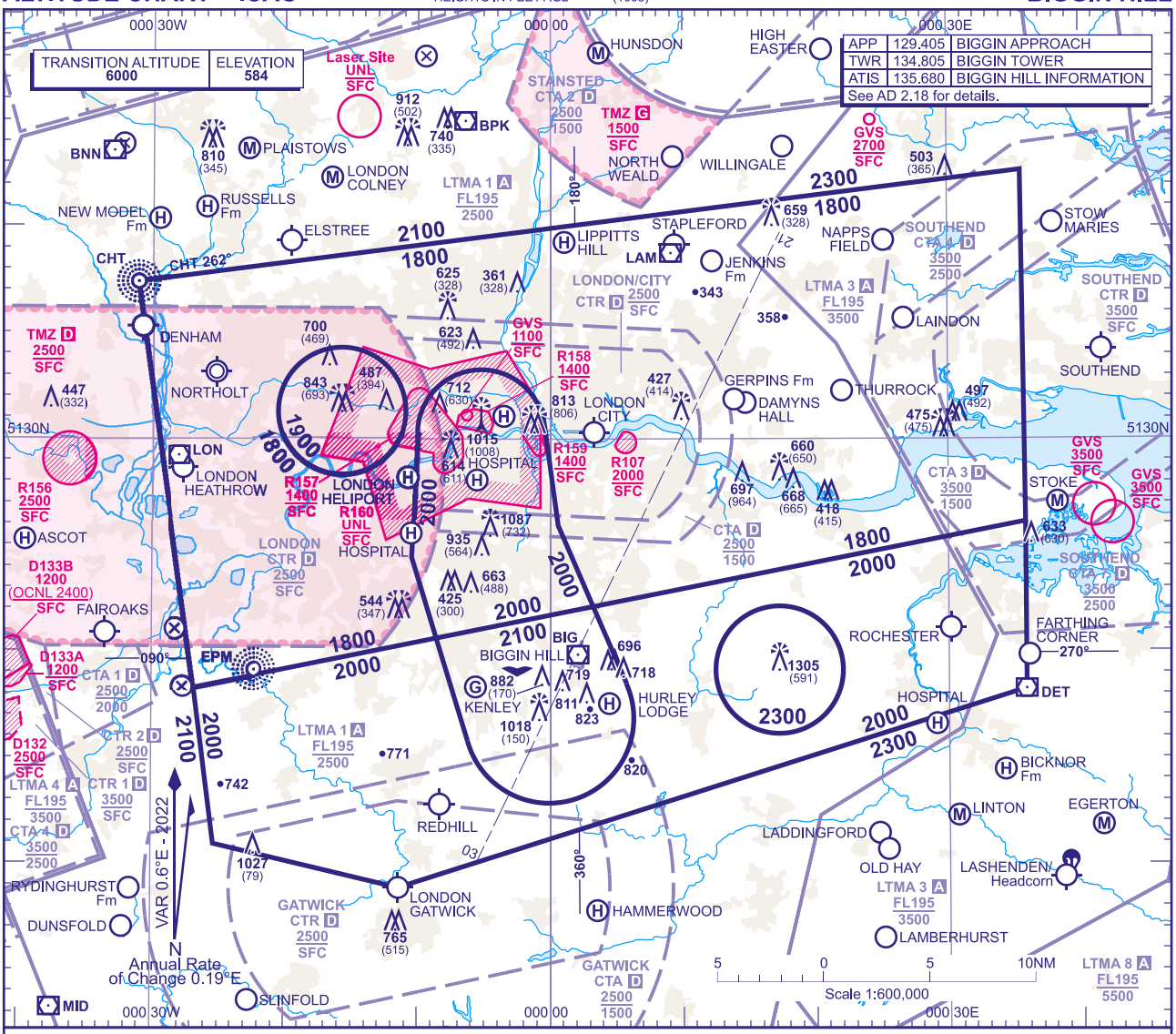
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1015
HEIGHTS IN FEET AGL (1008)

BIGGIN HILL



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2100** in the sector defined by the lateral limits; 512038N 0000835W - 512207N 0000314E - 511829N 0000545E thence clockwise by an arc of a circle radius 4NM centred on 511651N 0000005W to 511548N 0000613W - 512038N 0000835W.

b) **2000** in the sector defined by the lateral limits; 513022N 0001000W thence clockwise by an arc of a circle radius 3NM centred on 513016N 0000512W to 513040N 0000026W - 512556N 0000036E - 512207N 0000314E - 512038N 0000835W - 512426N 0001026W - 513022N 0001000W.

c) **2000** in the sector defined by the lateral limits; 511818N 0002650W - 512038N 0000835W - 511548N 0000613W thence anticlockwise by an arc of a circle radius 4NM centred on 511651N 0000005W to 511829N 0000545E - 512207N 0000314E - 512606N 0003549E - 511814N 0003550E - 510853N 0001125W - 511056N 0002519W - 511818N 0002650W, except within 3NM radius circle enclosing the Wrotham Mast (511914N 0001714E) where the minimum altitude is **2300**.

d) **1900** in the sector defined by the lateral limits; a circle radius 3NM centred on 513119N 0001542W.

e) **1800** in the sector defined by the lateral limits; 513723N 0003108W - 514239N 0003533E - 512606N 0003549E - 512207N 0000314E - 512556N 0000036E - 513040N 0000026W thence anticlockwise by an arc of a circle radius 3NM centred on 513016N 0000512W to 513022N 0001000W - 512426N 0001026W - 512038N 0000835W - 511818N 0002650W - 513723N 0003108W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate final approach aid. If not possible proceed at not above **2300**, to join the **ALKIN** holding pattern†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to join the ALKIN holding pattern†.

†In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. 913FT vertical separation approved against the Crystal Palace mast to meet ATS operational requirements.
7. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
8. **Thls chart may only be used for cross-checkIng of altItudes assIgned when In recelpt of an ATC Surveillance servIce.**

CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 03 FEB 25

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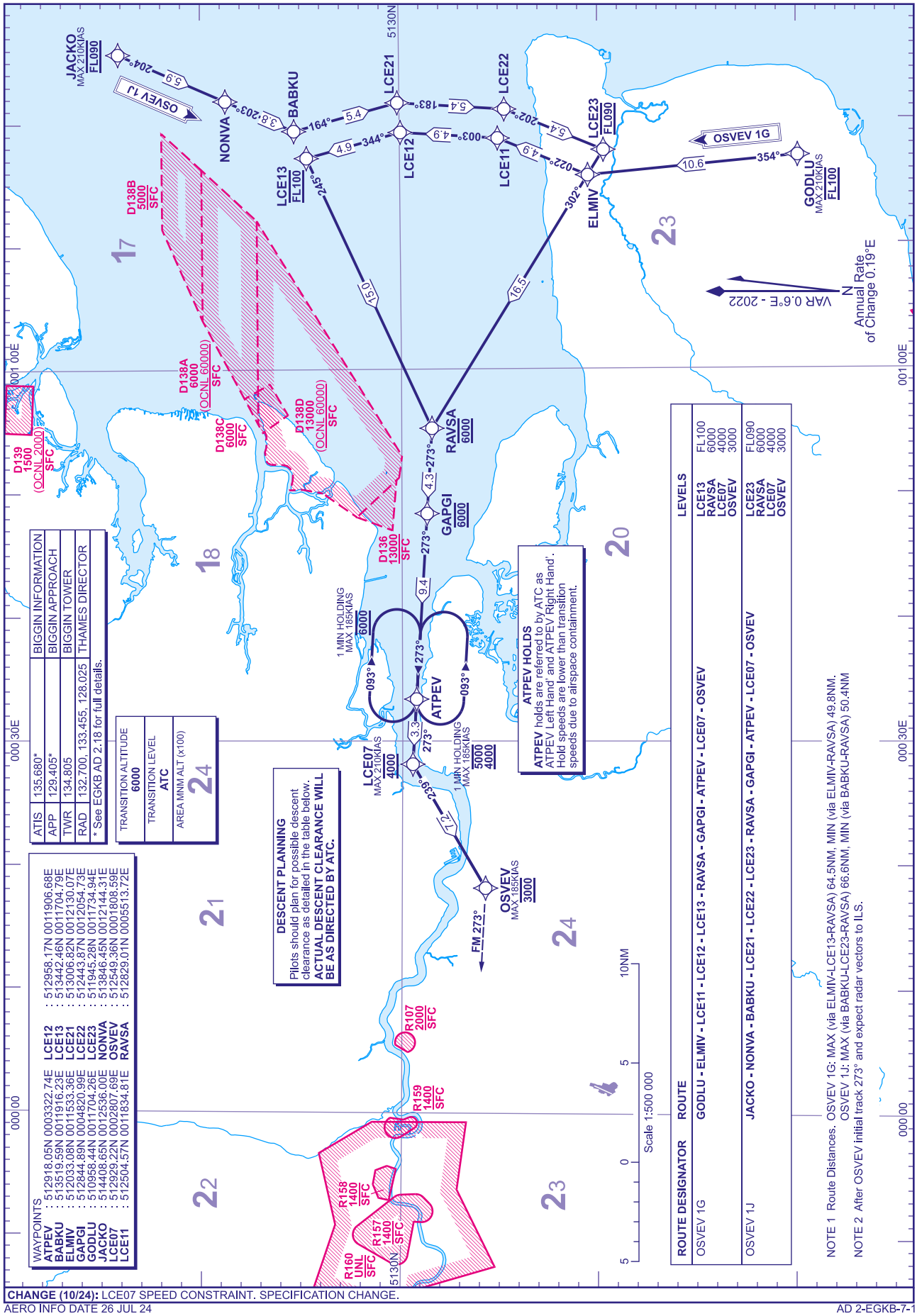
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIGGIN HILL
RWY 21
OSVEV 1G 1J



ATIS	135.680*	BIGGIN INFORMATION
APP	129.405*	BIGGIN APPROACH
TWR	134.805	BIGGIN TOWER
RAD	132.700, 133.455, 128.025	THAMES DIRECTOR

* See EGKB AD 2.18 for full details.

TRANSITION ALTITUDE 6000
TRANSITION LEVEL ATC
AREA MNM ALT (x100) 24

DESCENT PLANNING
Pilots should plan for possible descent clearance as detailed in the table below.
ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

ATPEV HOLDS
ATPEV holds are referred to by ATC as 'ATPEV Left Hand' and 'ATPEV Right Hand'. Hold speeds are lower than transition speeds due to airspace containment.

WAYPOINTS			
ATPEV	512918.05N 0003322.74E	LCE12	512958.17N 0011906.68E
BABKU	513519.59N 0011916.23E	LCE13	513442.46N 0011704.79E
ELMIV	512033.08N 0011533.36E	LCE21	513006.82N 0012130.07E
GAPGI	512844.89N 0004820.99E	LCE22	512443.87N 0012054.73E
GODLU	510958.44N 0011704.26E	LCE23	511945.28N 0011734.94E
JACKO	514408.65N 0012536.00E	NONVA	513846.45N 0012144.31E
LCE07	512929.22N 0002807.69E	OSVEV	512549.36N 0001808.59E
LCE11	512504.57N 0011834.81E	RAVSA	512829.01N 0005513.72E

ROUTE DESIGNATOR	ROUTE	LEVELS	
OSVEV 1G	GODLU - ELMIV - LCE11 - LCE12 - LCE13 - RAVSA - GAPGI - ATPEV - LCE07 - OSVEV	LCE13 RAVSA LCE07 OSVEV	FL100 6000 4000 3000
OSVEV 1J	JACKO - NONVA - BABKU - LCE21 - LCE22 - LCE23 - RAVSA - GAPGI - ATPEV - LCE07 - OSVEV	LCE23 RAVSA LCE07 OSVEV	FL090 6000 4000 3000

NOTE 1 Route Distances. OSVEV 1G: MAX (via ELMIV-LCE13-RAVSA) 64.5NM, MIN (via ELMIV-RAVSA) 49.8NM.
OSVEV 1J: MAX (via BABKU-LCE23-RAVSA) 66.6NM, MIN (via BABKU-RAVSA) 50.4NM

NOTE 2 After OSVEV initial track 273° and expect radar vectors to ILS.

CHANGE (10/24): LCE07 SPEED CONSTRAINT. SPECIFICATION CHANGE.

AERO INFO DATE 26 JUL 24

AD 2-EGKB-7-1

Standard Instrument Arrival Coding Tables

BIGGIN HILL Runway 21 OSVEV 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OSVEV1G	001	IF	GODLU	510958.44N 0011704.26E	N	-	-	-	-	FL100	-210	RNAV1
OSVEV1G	002	TF	ELMIV	512033.08N 0011533.36E	N	354° (354.9°)	0.6	10.6	RIGHT	-	-	RNAV1
OSVEV1G	003	TF	LCE11	512504.57N 0011834.81E	N	022° (022.7°)	0.6	4.9	LEFT	-	-	RNAV1
OSVEV1G	004	TF	LCE12	512958.17N 0011906.68E	N	003° (003.9°)	0.6	4.9	LEFT	-	-	RNAV1
OSVEV1G	005	TF	LCE13	513442.46N 0011704.79E	N	344° (345.0°)	0.6	4.9	LEFT	FL100	-	RNAV1
OSVEV1G	006	TF	RAVSA	512829.01N 0005513.72E	N	245° (245.6°)	0.6	15.0	RIGHT	6000	-	RNAV1
OSVEV1G	007	TF	GAPGI	512844.89N 0004820.99E	N	273° (273.6°)	0.6	4.3	-	6000	-	RNAV1
OSVEV1G	008	TF	ATPEV	512918.05N 0003322.74E	N	273° (273.5°)	0.6	9.4	-	-	-	RNAV1
OSVEV1G	009	TF	LCE07	512929.22N 0002807.69E	N	273° (273.3°)	0.6	3.3	LEFT	4000	-210	RNAV1
OSVEV1G	010	TF	OSVEV	512549.36N 0001808.59E	N	239° (239.6°)	0.6	7.2	RIGHT	3000	-185	RNAV1
OSVEV1G	011	FM	OSVEV	512549.36N 0001808.59E	N	273° (273.1°)	0.6	-	-	3000	-185	RNAV1

BIGGIN HILL Runway 21 OSVEV 1J

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OSVEV1J	001	IF	JACKO	514408.65N 0012536.00E	N	-	-	-	-	FL090	-210	RNAV1
OSVEV1J	002	TF	NONVA	513846.45N 0012144.31E	N	204° (204.1°)	0.6	5.9	-	-	-	RNAV1
OSVEV1J	003	TF	BABKU	513519.59N 0011916.23E	N	203° (204.0°)	0.6	3.8	LEFT	-	-	RNAV1
OSVEV1J	004	TF	LCE21	513006.82N 0012130.07E	N	164° (165.0°)	0.6	5.4	RIGHT	-	-	RNAV1
OSVEV1J	005	TF	LCE22	512443.87N 0012054.73E	N	183° (183.9°)	0.6	5.4	RIGHT	-	-	RNAV1
OSVEV1J	006	TF	LCE23	511945.28N 0011734.94E	N	202° (202.7°)	0.6	5.4	RIGHT	FL090	-	RNAV1
OSVEV1J	007	TF	RAVSA	512829.01N 0005513.72E	N	302° (302.1°)	0.6	16.5	LEFT	6000	-	RNAV1
OSVEV1J	008	TF	GAPGI	512844.89N 0004820.99E	N	273° (273.6°)	0.6	4.3	-	6000	-	RNAV1
OSVEV1J	009	TF	ATPEV	512918.05N 0003322.74E	N	273° (273.5°)	0.6	9.4	-	-	-	RNAV1
OSVEV1J	010	TF	LCE07	512929.22N 0002807.69E	N	273° (273.3°)	0.6	3.3	LEFT	4000	-210	RNAV1
OSVEV1J	011	TF	OSVEV	512549.36N 0001808.59E	N	239° (239.6°)	0.6	7.2	RIGHT	3000	-185	RNAV1
OSVEV1J	012	FM	OSVEV	512549.36N 0001808.59E	N	273° (273.1°)	0.6	-	-	3000	-185	RNAV1

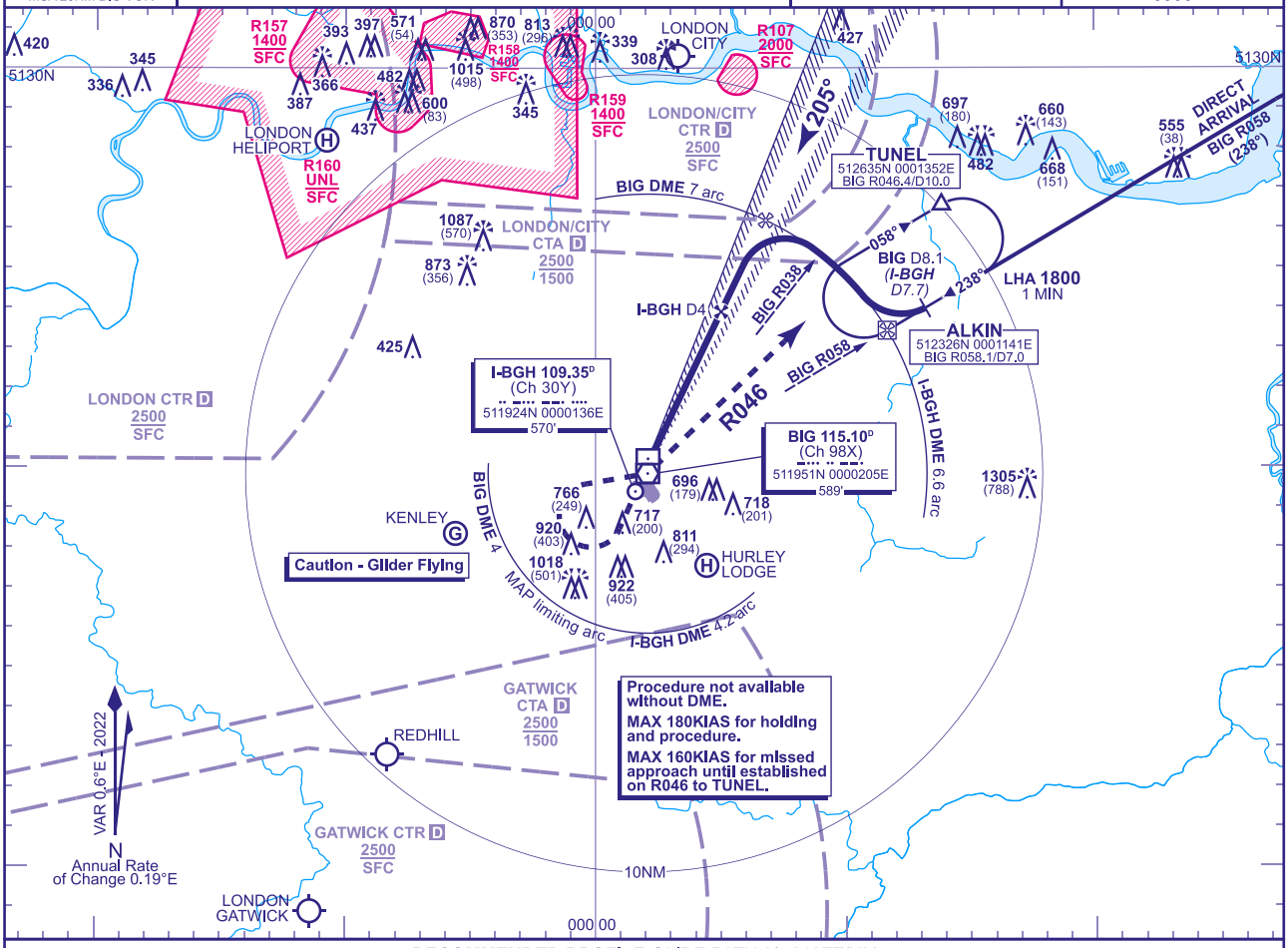
CHANGE (10/24): GAPGI LEVEL CONSTRAINT REVISED. SPECIFICATION CHANGE.
AERO INFO DATE 26 JUL 24

INSTRUMENT APPROACH CHART - ICAO

BIGGIN HILL ILS/DME/VOR RWY 21
(ACFT CAT A,B,C)

APP 129.405	BIGGIN APPROACH	AD ELEVATION	584
TWR 134.805	BIGGIN TOWER	THR ELEVATION	517
RAD 132.700, 133.455, 128.025	THAMES DIRECTOR	OBSTACLE ELEVATION 1305 AMSL (788) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

MSA 25NM BIG VOR



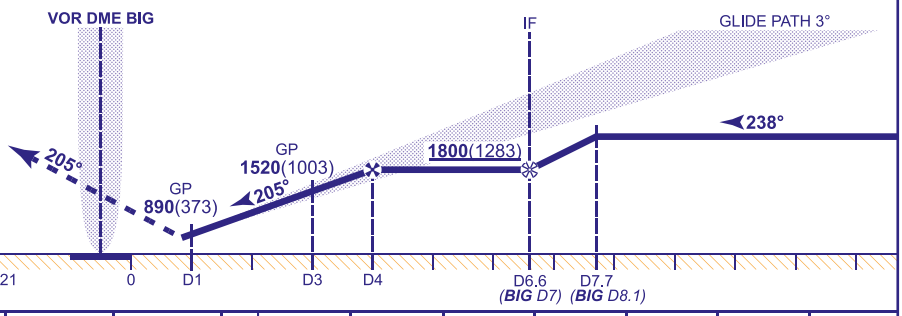
RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-BGH	3	2	1
ALT(HGT)	**1520**(1003)	**1200**(683)	**890**(373)

RDH 50

Arrival **not below MSA.**

Climb straight ahead to not above **2000**. At **I-BGH DME** 2 turn right to **VOR BIG** continuing climb as necessary to **2000**. Leave **VOR BIG** on R046 to TUNEL (**BIG VOR** R046 DME 10) to enter hold or as directed.
Note: Remain within **I-BGH DME** 4.2 or **BIG DME** 4 during right turn to **VOR DME BIG**. MAX 160KIAS until established outbound R046 to **TUNEL**.



Aircraft Category		A	B	C
OCA (OCH)	CLIMB GRAD 2.5%	**860**(343)	**860**(343)	**860**(343)
	CLIMB GRAD 5.0%	**726**(209)	**736**(219)	**746**(229)
VM(C)OCA (OCH AAL)	Total Area	**1150**(566)	**1350**(766)	**1450**(866)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

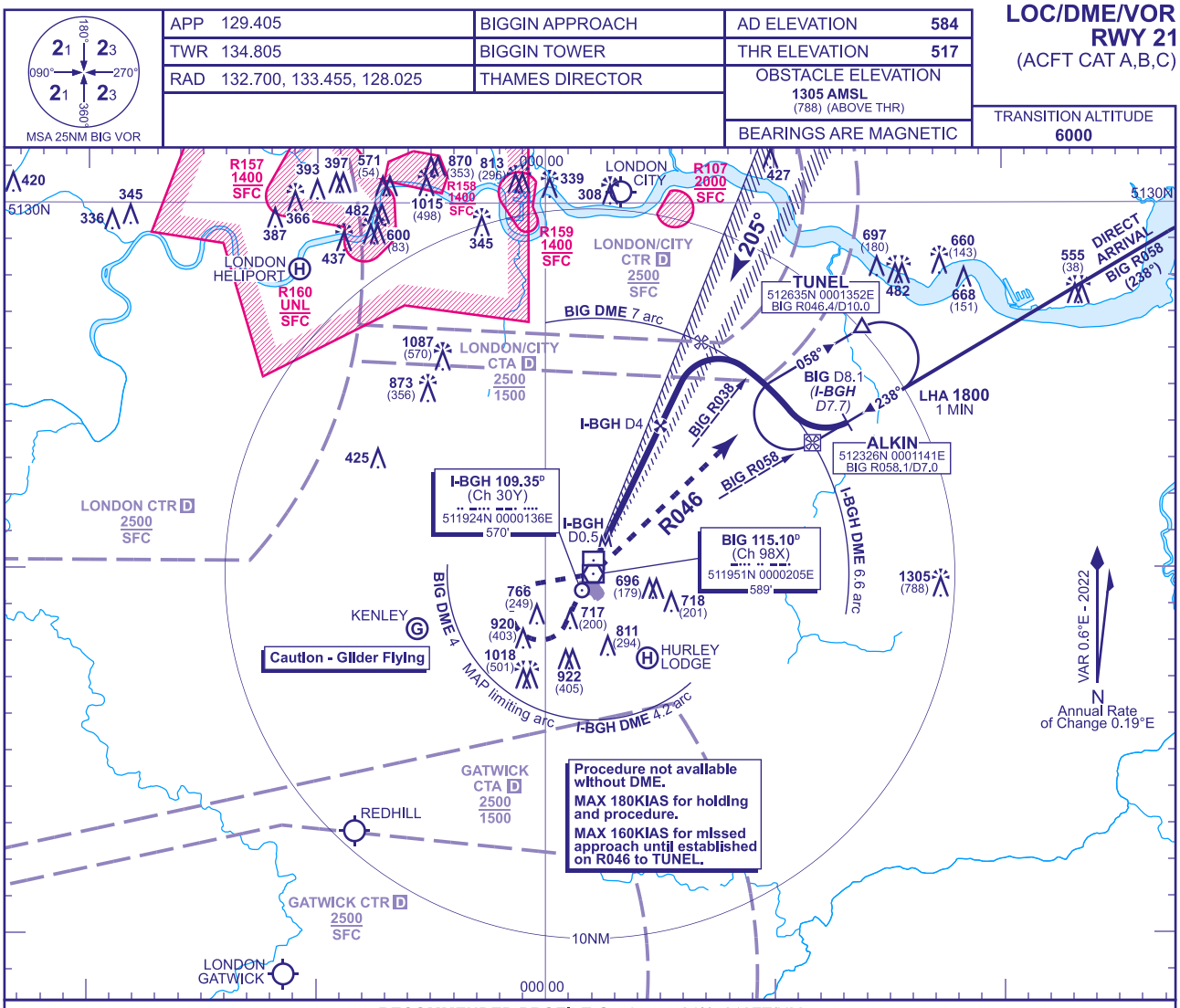
NOTE
1 Initial arc track at BIG R058 is 328°M, Final arc track at BIG R038 is 308°M. Rate of change of arc track 8.2°/NM.
2 Procedural arrivals not normally permitted when 'Thames Director' is available.
3 Aircraft will normally be radar vectored by 'Thames Director' direct to final approach at **1800**, to be established not later than I-BGH DME 5.
4 Aircraft which need to lose significant altitude shuttle in ALKIN hold as directed by ATC.
5 ATC will normally require aircraft to hold **not below 2000**. MAX 180KIAS for holding.

CHANGE (1/25): SPECIFICATION CHANGE. NO AERONAUTICAL CHANGE.

AERO INFO DATE 05 NOV 24

INSTRUMENT APPROACH CHART - ICAO

BIGGIN HILL LOC/DME/VOR RWY 21
(ACFT CAT A,B,C)



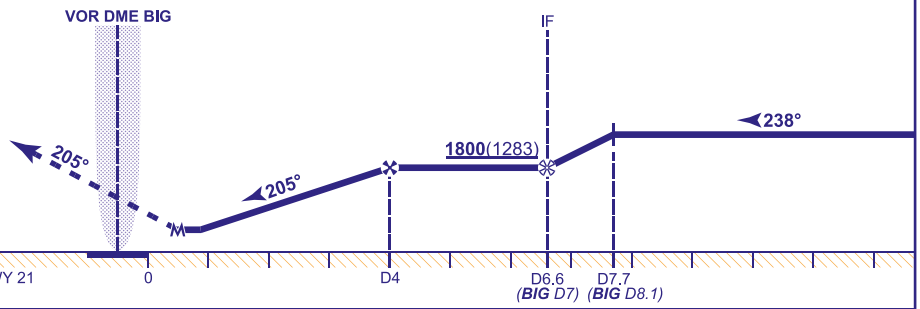
RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-BGH	3	2	1
ALT(HGT)	**1520**(1003)	**1200**(683)	**890**(373)

Arrival **not below MSA**.

MAPt I-BGH DME 0.5

Climb straight ahead to not above **2000**. At **I-BGH DME** 2 turn right to **VOR BIG** continuing climb as necessary to **2000**. Leave **VOR BIG** on R046 to TUNEL (**BIG VOR** R046 DME 10) to enter hold or as directed.
Note: Remain within **I-BGH DME** 4.2 or **BIG DME** 4 during right turn to **VOR DME BIG**. MAX 160KIAS until established outbound R046 to **TUNEL**.



Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**Procedure**	**840**(323)	**840**(323)	**840**(323)
VM(C)OCA (OCH AAL)	**Total Area**	**1150**(566)	**1350**(766)	**1450**(866)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE
1 Initial arc track at BIG R058 is 328°M, Final arc track at BIG R038 is 308°M. Rate of change of arc track 8.2°/NM.
2 Procedural arrivals not normally permitted when 'Thames Director' is available.
3 Aircraft will normally be radar vectored by 'Thames Director' direct to final approach at **1800**, to be established not later than I-BGH DME 5.
4 Aircraft which need to lose significant altitude shuttle in ALKIN hold as directed by ATC.
5 ATC will normally require aircraft to hold **not below 2000**. MAX 180KIAS for holding.

CHANGE (1/25): PROFILE DME DISTANCE. SPECIFICATION CHANGE.

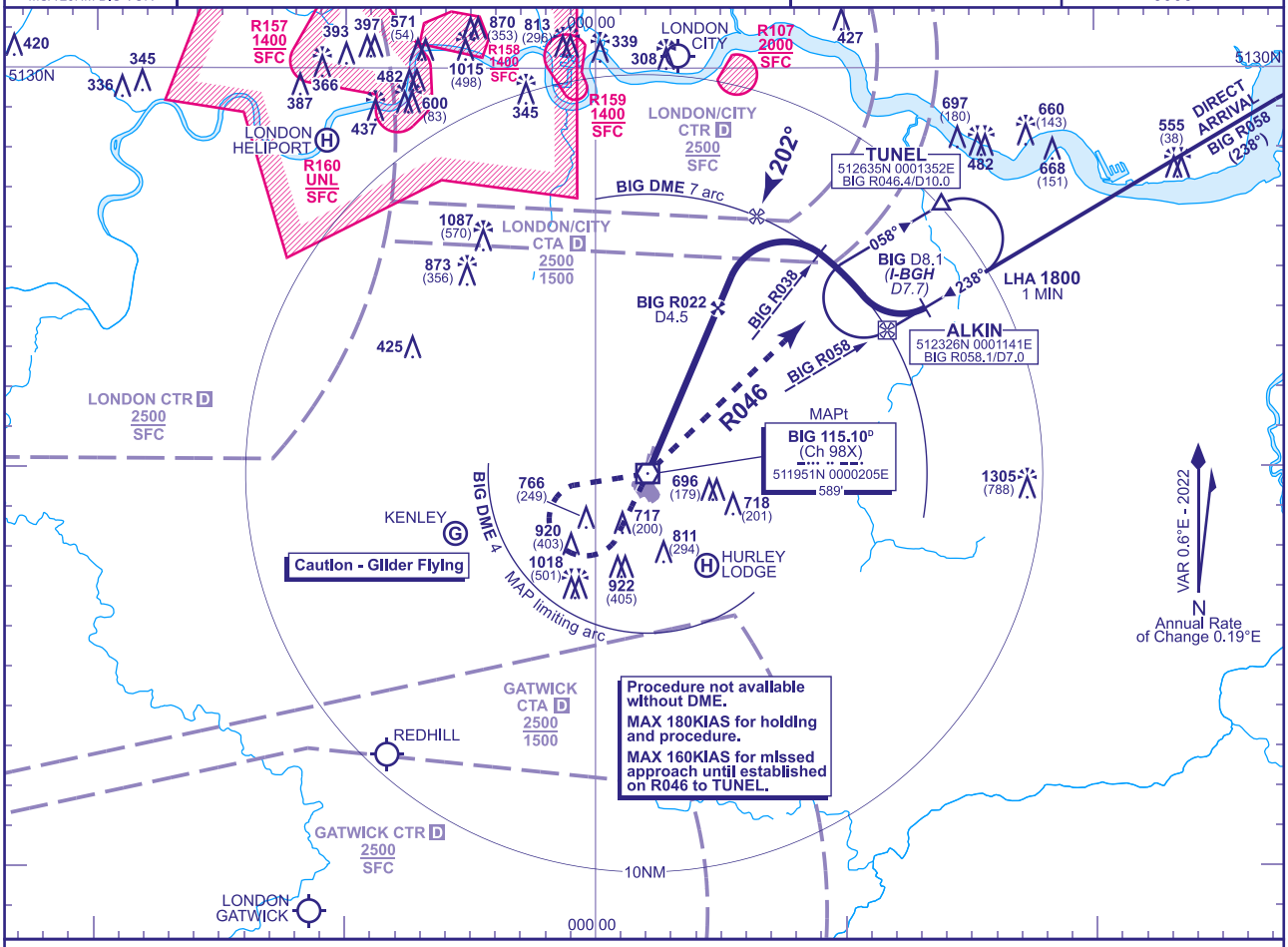
AERO INFO DATE 07 NOV 24

INSTRUMENT APPROACH CHART - ICAO

BIGGIN HILL VOR/DME RWY 21
(ACFT CAT A,B,C)

APP 129.405	BIGGIN APPROACH	AD ELEVATION	584
TWR 134.805	BIGGIN TOWER	THR ELEVATION	517
RAD 132.700, 133.455, 128.025	THAMES DIRECTOR	OBSTACLE ELEVATION 1305 AMSL (788) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

MSA 25NM BIG VOR



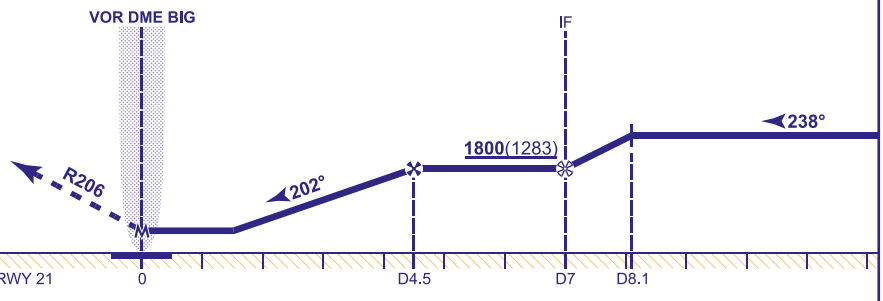
RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME BIG	4	3	2
ALT(HGT)	**1680**(1163)	**1360**(843)	**1040**(523)

Arrival **not below MSA**.

MAPt VOR DME BIG

Climb ahead on R206 to **not above 2000**. At **BIG DME** 2 turn right to **VOR BIG** continuing climb as necessary to **2000**. Leave **VOR BIG** on R046 to TUNEL (**BIG VOR** R046 DME 10) to enter hold or as directed.
Note: Remain within **BIG DME** 4 during right turn to **VOR DME BIG**. MAX 160KIAS until established outbound R046 to **TUNEL**.



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**890**(373)	**890**(373)	**890**(373)
VM(C)OCA (OCH AAL)	Total Area	**1150**(566)	**1350**(766)	**1450**(866)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE
1 Initial arc track at BIG R058 is 328°M, Final arc track at BIG R038 is 308°M. Rate of change of arc track 8.2°/NM.
2 Procedural arrivals not normally permitted when 'Thames Director' is available.
3 Aircraft will normally be radar vectored by 'Thames Director' direct to final approach at **1800**, to be established not later than I-BGH DME 5.
4 Aircraft which need to lose significant altitude shuttle in ALKIN hold as directed by ATC.
5 FAT offset 3° from RWY CL (205°M).
5 ATC will normally require aircraft to hold **not below 2000**. MAX 180KIAS for holding.

CHANGE (1/25): SPECIFICATION CHANGE. BIG D4.5 RADIAL CORRECTION.

AERO INFO DATE 15 NOV 24

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EGBB — BIRMINGHAM

EGBB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBB — BIRMINGHAM

EGBB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 522714N Long: 0014453W Centre point of Runway intersection with Taxiways Lima/Tango.
2	Direction and distance from city	5.5 NM ESE of Birmingham.
3	Elevation / Reference temperature / Mean Low Temperature	339 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	162 FT
5	Magnetic Variation / Annual Change	0.13°W (2022) / 0.20°E
6	AD Administration Address Telephone AFS E-mail address	BIRMINGHAM AIRPORT. Birmingham Airport, Birmingham B26 3QJ. 0871-222 0072 (General Enquiries) 07890-423014 (Airfield Duty Manager) 0121-767 1260 (ATC ATIS) 0121-767 1210 (ATC Watch Manager) EGBBYDYX ADM@birminghamairport.co.uk (Airfield Duty Manager)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All calls to ATC will be recorded.

EGBB AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Refer to NOTAM/AIP Supplements.

EGBB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Dedicated cargo aircraft handling agents and transit sheds available.
2	Fuel and oil types	AVTUR JET A-1. 100, W80 and W100.
3	Fuelling facilities/capacity	Fuel delivery by bowser.
4	De-icing facilities	By arrangement with handling agents.
5	Hangar space for visiting aircraft	Yes, by arrangement with XLR Executive Jet Centres.
6	Repair facilities for visiting aircraft	Maintenance and repair by arrangement.
7	Remarks	Ground handling mandatory for all aircraft. Aircraft handling agencies are: Blue City: Tel: 0121-782 9300; Email: handling@bluecityaviation.co.uk Signature: Tel: 0121-782 1999; Email: bhx@signatureflight.co.uk Swissport: Tel: 0121-767 7772; Email: bhx.ops@swissport.com XLR Executive Jet Centres: Tel: 0121-663 1450; Email: jetcentre@xlrbirmingham.com

EGBB AD 2.5 PASSENGER FACILITIES

1	Hotels	Available on site.
2	Restaurants	Available on site.
3	Transportation	Buses, taxis, trains and hire cars. Nearest railway station, Birmingham International.
4	Medical facilities	First aid treatment & emergency service response.
5	Bank and Post Office	Bureau de Change & Post Office on site.
6	Tourist Office	
7	Remarks	

EGBB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A9 RFF Category 10 aircraft accepted under remission.
2	Rescue equipment	Details available on request from aerodrome.
3	Capability for removal of disabled aircraft	Airlines must have a confirmed contract for aircraft recovery. Aircraft recovery arrangements must be submitted to Birmingham Airport Limited. Tel: 07890-423014 (Airfield Duty Manager). E-mail: ADM@birminghamairport.co.uk.
4	Remarks	

EGBB AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical - Chemical de-icing.
2	Clearance priorities	Standard. See AD 2.1.2.
3	Remarks	ATC snow state and clearance programme. Snow Control 0121-767 7152.

EGBB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	STAND 501 Surface: Concrete PCR 788/R/C/W/U STAND 502 Surface: Concrete PCR 788/R/B/W/U STAND 503 Surface: Concrete PCR 808/R/B/W/U STAND 504 Surface: Concrete PCR 788/R/C/W/U STAND 504R Surface: Concrete PCR 1270/R/B/W/T STAND 601 Surface: Concrete PCR 850/R/B/W/T STAND 77 Surface: Concrete PCR 1590/R/A/W/T STANDS 1 TO 10 Surface: Concrete PCR 650/R/B/W/T STANDS 11 TO 16 Surface: Concrete PCR 643/R/A/W/U STANDS 20 TO 25 Surface: Concrete PCR 1110/R/B/W/T STANDS 40 TO 42 Surface: Concrete PCR 1004/R/A/W/U STANDS 54 TO 57 Surface: Concrete PCR 1170/R/B/W/T STANDS 58 TO 60 Surface: Concrete PCR 710/R/B/W/T STANDS 70 TO 76 Surface: Concrete PCR 1440/R/B/W/T STANDS 80 TO 84 Surface: Concrete PCR 1170/R/B/W/T STANDS 85 TO 86 Surface: Concrete PCR 930/R/A/W/T
2	Taxiway width, surface and strength	Taxiway A: 23 M Surface: Asphalt PCR 2710/F/D/X/T Taxiway AL: 23 M Surface: Asphalt PCR 1220/R/B/W/T

		Taxiway B: 23 M Surface: Asphalt PCR 800/R/B/W/T Taxiway C: 23 M Surface: Concrete and asphalt PCR 780/R/B/W/T Taxiway D: 23 M Surface: Concrete and asphalt PCR 1100/R/B/W/T Taxiway E: 23 M Surface: Concrete and asphalt PCR 1370/R/B/X/T Taxiway F: 23 M Surface: Concrete PCR 784/R/A/W/U Taxiway G: 18 M Surface: Asphalt PCR 560/F/C/X/T Taxiway H: 23 M Surface: Concrete PCR 784/R/A/W/U Taxiway J: 23 M Surface: Asphalt PCR 1470/F/D/X/T Taxiway L: 45 M Surface: Asphalt PCR 1500/F/D/X/T Taxiway S: 23 M Surface: Asphalt PCR 1980/R/B/W/T Taxiway T: 23 M Surface: Concrete PCR 1080/R/C/W/T Taxiway U: 23 M Surface: Concrete PCR 1004/R/B/W/U Taxiway V: 23 M Surface: Asphalt PCR 3780/F/B/X/T Taxiway W: 23 M Surface: Asphalt PCR 2120/F/A/X/T Taxiway Y: 23 M Surface: Concrete PCR 750/R/B/W/T
3	Altimeter checkpoint location and elevation	Terminal Apron 325 FT Elmdon GA Aprons 325 FT
4	VOR checkpoints	
5	INS checkpoints	See Ground Movement/Parking/Docking Chart.
6	Remarks	

EGBB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Taxiing guidance signs: Taxi-holding position; Guide lines at apron. Terminal Apron (Stands 1-86). All aircraft stands are laid out for nose-in/push-back; nose-wheel guidelines are provided and marshalling assistance is available, if required, on request through ATC GMC. Stands 1-4 have directional information provided by Safedock Docking Guidance System. Stands 8C, 12 and 13 have directional information provided by marshaller instruction. Stands 15, 16, 40, 41C, 42C, 54R, 54C, 54L, 55R, 55C, 55L, 56R, 56C, 57R, 57C and 58 have directional information provided by a Safedock Docking Guidance System and are provided with an apron drive airbridge. Stands 41R, 41L, 42R, 42L, 56L, 57L and 59 have directional information provided by Safedock Docking Guidance System. Stands 5-7, 8L, 10-13, 20-25, 60, 70-77, 80-82, 83L, 83C, 83R, 84L, 84C, 84R, 85L, 85C, 85R, 86L, 86C and 86R will be under marshaller instructions. All Stands except 75-77 are fitted with a fixed electrical ground power unit. Pilots must not enter an aircraft stand unless SEG (Stand Entry Guidance) is activated and the correct aircraft type is displayed, or Birmingham Airport Limited marshaller has signalled clearance to proceed. In the event of there being no activated SEG displayed upon approach to the stand, flight crews must hold position on the taxiway and advise GMC of the non-activation of the SEG. Aircrew must not attempt to self-park in the SEG is not activated. Aircrew are to note that all SEG systems are activated by their ground handling agent. The activation of SEG systems should indicate that a safety check of the stands has been made by the handling agent prior to the arrival of the aircraft. Elmdon Apron (Stands 501-506) will be under marshaller instructions. Pilots of light aircraft not using the full stand facilities should await marshaller instructions before proceeding onto the stands to park.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 15/33: Designation, runway edge, threshold, centre-line, TDZ. Taxiway light(s): Green centre-line lighting (15 M spacing) plus blue edge on curves and red stop bars. No green centre-line on Taxiway J and Taxiway L.
3	Stop bars and runway guard lights (if any)	No stop bar at J1. Stop bars at runway entrance points are in operation H24.
4	Other runway protection measures	
5	Remarks	WDI RWY 15 THR (LGTD): 522730.26N 0014520.61W. WDI Midpoint (LGTD): 522652.90N 0014437.40W. WDI RWY 33 THR (LGTD): 522705.56N 0014452.33W.

EGBB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBB1365) 33/TAKE-OFF	HOPPER	522828.00N 0014621.68W	389 FT	52 FT	No	
(EGBB1439) 33/TAKE-OFF	TREE	522825.25N 0014601.20W	373 FT	53 FT	No	
(EGBB1417) 33/TAKE-OFF	TREE	522824.04N 0014605.51W	375 FT	50 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBB1485) 33/TAKE-OFF	GANTRY	522818.37N 0014555.10W	354 FT	31 FT	No	
(EGBB1410) 33/TAKE-OFF	TREE	522815.61N 0014607.11W	364 FT	60 FT	No	
(EGBB1596) 15/APPROACH	POST	522813.00N 0014545.67W	356 FT	59 FT	Yes	
(EGBB1634) 15/APPROACH	GANTRY	522812.08N 0014542.09W	352 FT	31 FT	No	
(EGBB1492) 33/TAKE-OFF	TREE	522811.75N 0014554.40W	342 FT	46 FT	No	
(EGBB1441) 15/APPROACH 33/ TAKE-OFF	TREE	522808.47N 0014600.62W	355 FT	57 FT	No	
(EGBB1577) 33/TAKE-OFF	LAMP POST	522808.23N 0014547.45W	326 FT	26 FT	No	
(EGBB1624) 15/APPROACH	TREE	522807.67N 0014543.63W	353 FT	52 FT	No	
(EGBB1460) 33/TAKE-OFF	TREE	522807.42N 0014558.00W	349 FT	44 FT	No	
(EGBB1571) 33/TAKE-OFF	HEDGE	522803.77N 0014547.90W	320 FT	11 FT	No	
(EGBB1647) 15/APPROACH	TREE	522802.75N 0014537.47W	340 FT	51 FT	No	
(EGBB1512) 33/TAKE-OFF	FENCE	522802.16N 0014551.14W	319 FT	9 FT	No	
(EGBB1482) 15/APPROACH	TREE	522801.33N 0014555.44W	349 FT	36 FT	No	
(EGBB1458) 15/APPROACH	TREE	522800.97N 0014558.46W	367 FT	53 FT	No	
(EGBB1629) 33/TAKE-OFF	LLZ	522800.70N 0014543.32W	316 FT	8 FT	Yes	
(EGBB1615) 33/TAKE-OFF	FFM	522800.24N 0014544.45W	313 FT	7 FT	No	
(EGBB1600) 33/TAKE-OFF	LLZ	522759.75N 0014545.60W	316 FT	9 FT	Yes	
(EGBB1480) 15/APPROACH	TREE	522758.54N 0014555.69W	357 FT	46 FT	No	
(EGBB1535) 15/APPROACH	TREE	522755.41N 0014549.80W	345 FT	49 FT	No	
(EGBB2067) 15/TAKE-OFF	LLZ MON	522633.39N 0014407.91W	344 FT	13 FT	No	
(EGBB2333) 33/APPROACH	TREE	522622.45N 0014338.66W	405 FT	47 FT	No	
33/APPROACH 15/TAKE-OFF	CONSTRUCTI ON EQUIPMENT	522620N 0014401W	383 FT	26 FT	No	
(EGBB2104) 33/APPROACH	TREE	522620.38N 0014403.89W	386 FT	48 FT	No	
(EGBB2239) 15/TAKE-OFF	BUSH	522619.68N 0014349.41W	382 FT	27 FT	No	
(EGBB2335) 33/APPROACH	TREE	522619.47N 0014338.51W	426 FT	60 FT	No	
(EGBB2350) 33/APPROACH	TREE	522618.78N 0014336.57W	417 FT	46 FT	No	
(EGBB2174) 33/APPROACH	TREE	522614.44N 0014358.14W	405 FT	55 FT	No	
(EGBB2332) 15/TAKE-OFF	TREE	522614.01N 0014339.46W	402 FT	30 FT	No	
(EGBB2345) 15/TAKE-OFF	TREE	522610.65N 0014337.38W	414 FT	43 FT	No	
(EGBB2295) 15/TAKE-OFF	TREE	522604.71N 0014342.75W	414 FT	42 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBB2308) 33/APPROACH	TREE	522555.18N 0014341.85W	451 FT	88 FT	No	
(EGBB2347) 15/TAKE-OFF	TREE	522555.10N 0014337.10W	428 FT	70 FT	No	
(EGBB2478) 15/TAKE-OFF	PYLON	522545.63N 0014254.69W	477 FT	142 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBB1090)	BUILDING	522854.46N 0014818.90W	528 FT	155 FT	No	
(EGBB2688)	UK29306514F CRANE	522850.73N 0015425.02W	980 FT	525 FT	No	
	CRANE	522850.54N 0015424.87W	1009 FT	555 FT	Yes	Northwest of Birmingham Airport. End estimated January 2025.
(EGBB2046)	AERIAL	522844.85N 0014411.83W	453 FT	131 FT	No	
(EGBB2471)	PYLON	522835.76N 0014258.70W	486 FT	150 FT	No	
(EGBB1097)	SPIRE	522828.31N 0014810.28W	555 FT	159 FT	No	
(EGBB2638)	UK28540753F CRANE	522821.16N 0015256.84W	1015 FT	638 FT	Yes Solid Red	
(EGBB2595)	TREE	522820.45N 0014733.96W	467 FT	73 FT	No	
(EGBB1052)	BUILDING	522744.37N 0014859.78W	577 FT	150 FT	No	
(EGBB2602)	PYLON	522741.06N 0014229.79W	515 FT	188 FT	No	
(EGBB1098)	TREE	522734.72N 0014809.41W	497 FT	75 FT	No	
(EGBB1034)	CHIMNEY	522733.75N 0015035.65W	644 FT	267 FT	No	
(EGBB1708)	RADOME	522717.34N 0014522.87W	443 FT	125 FT	No	
(EGBB2621)	UK28490886F CRANE	522708.96N 0015627.08W	876 FT	378 FT	Yes Solid Red	
(EGBB2226)	BUILDING	522703.02N 0014350.71W	447 FT	108 FT	No	
(EGBB1927)	ATC AERIAL	522649.81N 0014453.21W	492 FT	130 FT	No	
(EGBB2225)	AERIAL	522648.42N 0014350.82W	483 FT	116 FT	Yes Solid Red	
(EGBB2492)	PYLON	522648.36N 0014240.79W	483 FT	173 FT	Yes Solid Red	
(EGBB1058)	BUILDING	522643.55N 0014853.17W	516 FT	99 FT	No	
(EGBB1557)	TREE	522632.84N 0014548.92W	508 FT	106 FT	No	
(EGBB1700)	MAST	522622.57N 0014524.00W	498 FT	118 FT	No	
(EGBB2486)	PYLON	522622.02N 0014246.61W	488 FT	152 FT	No	
(EGBB2390)	WEATHER V	522621.54N 0014328.85W	487 FT	115 FT	Yes Solid Red	
(EGBB1155)	TREE	522604.52N 0014725.57W	508 FT	113 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBB1361)	MAST	522533.51N 0014624.70W	580 FT	177 FT	Yes Solid Red	
(EGBB2317)	PYLON	522518.42N 0014341.27W	483 FT	89 FT	No	
(EGBB1968)	TREE	522509.01N 0014443.21W	519 FT	95 FT	No	
(EGBB1042)	BUILDING	522456.14N 0014948.29W	638 FT	156 FT	No	
(EGBB1320)	SPIRE	522440.99N 0014633.28W	619 FT	191 FT	No	
(EGBB2459)	PYLON	522421.06N 0014305.76W	545 FT	151 FT	No	

EGBB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 Hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone. ATIS Tel: 0121-767 1260.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English
7	Charts and other information available for briefing or consultation	F214, F215, GAMET available via Met Office Aviation Briefing Service, www.metoffice.gov.uk/aviation.
8	Supplementary equipment available for providing information	Standby systems. ATIS number available: 0121-767 1260.
9	ATS units provided with information	BIRMINGHAM
10	Additional information (limitation of service, etc.)	Unverified AUTO METARs may be published in night periods.

EGBB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
15	145.81°	3052 x 45 M	RWY surface: Asphalt, Grooved PCR 1550/R/C/W/T	522748.52N 0014531.43W 162.1 FT	THR 303.4 FT TDZ 313.1 FT	
33	325.82°	3052 x 45 M	RWY surface: Asphalt, Grooved PCR 1550/R/C/W/T	522646.58N 0014422.56W 161.9 FT	THR 327.9 FT TDZ 327.9 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
	60 x 150 M	3124 x 280 M				RWY 15 Threshold displaced by 291 M. Runway 15/33 has shoulders 7.5 M each side of the runway giving a total paved width of 60 M.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	193 x 150 M	3124 x 280 M				RWY 33 Threshold displaced by 447 M. Runway 15/33 has shoulders 7.5 M each side of the runway giving a total paved width of 60 M.

EGBB AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
15	3004 M	3064 M	3004 M	2581 M	
33	3004 M	3197 M	3004 M	2450 M	
15	2447 M	2508 M	2447 M		Take-off from intersection with Taxiway B.
15	1444 M	1504 M	1444 M		Take-off from intersection with Taxiway L.
15	1220 M	1280 M	1220 M		Take-off from intersection with Taxiway G.
33	2552 M	2745 M	2552 M		Take-off from intersection with Taxiway E.
33	2182 M	2375 M	2182 M		Take-off from intersection with Taxiway C.
33	2093 M	2286 M	2093 M		Take-off from intersection with Taxiway F.
33	1769 M	1962 M	1769 M		Take-off from intersection with Taxiway G.
33	1560 M	1752 M	1560 M		Take-off from intersection with Taxiway L.

EGBB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
15	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Light intensity high Uni-directional Green wingbars	PAPI Left/3° 60 FT 406 M	900 M	Colour coded 15 M spacing Light intensity high	Variable intensity bi-directional Flush fitting Light intensity high	Red		
33	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Light intensity high Uni-directional Green wingbars	PAPI Left/3° 59 FT 370 M	900 M	Colour coded 15 M spacing Light intensity high	Variable intensity bi-directional Flush fitting Light intensity high	Red		

EGBB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Runway 15: 522653.35N 0014438.28W (LGTD); Runway 33: 522736.27N 0014525.44W (LGTD).
3	TWY edge and centre line lighting	

4	Secondary power supply/switch-over time	Yes/1 second.
5	Remarks	

EGBB AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Helicopters to approach using active runway and land as instructed by ATC.

EGBB AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BIRMINGHAM CTR 523507N 0014154W - 522626N 0013203W thence clockwise by the arc of a circle radius 8 NM centred on 522722N 0014502W to 521933N 0014740W - 522835N 0015758W thence clockwise by the arc of a circle radius 8 NM centred on 522722N 0014502W to 523507N 0014154W	Upper limit: 4500 FT ALT Lower limit: SFC	D	BIRMINGHAM RADAR English	6000 FT		Birmingham ATC is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80.
BIRMINGHAM ATZ A circle, 2.5 NM radius, centred at 522722N 0014502W on longest notified runway (15/33)	Upper limit: 2000 FT AGL Lower limit: SFC	D	BIRMINGHAM RADAR English	6000 FT		Birmingham ATC is the Controlling Authority for that part of the Daventry Control Area which overlies the Birmingham CTR and CTA up to and including FL 80.

EGBB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	BIRMINGHAM DIRECTOR	131.005 DOC 40 NM/ 20,000 FT			As Directed by ATC	ATZ hours coincident with Approach hours. In the event of a radar failure, the BIRMINGHAM APPROACH callsign should be used on Channel 123.980 or 131.005.
	BIRMINGHAM RADAR	123.980 DOC 40 NM/ 20,000 FT			H24	
		131.330 DOC 40 NM/ 20,000 FT			As Directed by ATC	
TWR	BIRMINGHAM DELIVERY	121.930 DOC A/C on the ground			H24	GMC outside operating hours use freq 118.305 MHz Departing aircraft are to make initial contact with BIRMINGHAM DELIVERY on 121.930 MHz.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
	BIRMINGHAM GROUND	121.805 DOC A/C on the ground			O/R	
	BIRMINGHAM TOWER	118.305 DOC 25 NM/4000 FT			H24	
ATIS	BIRMINGHAM INFORMATION	136.030 DOC 60 NM/ 20,000 FT			H24	Also available by telephone: 0121-767 1260
OTHER	BIRMINGHAM FIRE	121.600 Non-ATS frequency.				Available when Fire vehicle attending aircraft on the ground in an emergency.
OTHER	BIRMINGHAM EMERGENCY	121.500 DOC 25 NM/ 4000 FT			H24	

EGBB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 0.73°E (2027)	IBIR	110.100 MHz	HO	522631.38N 0014405.69W		(RWY 15) False Capture may be experienced when approaching from the north.
ILS/GP	IBIR	334.400 MHz	HO	522736.73N 0014527.97W		3° ILS Ref Datum Hgt 55 FT.
ILS/LOC III 0.71°E (2027)	IBM	110.100 MHz	HO	522800.17N 0014544.39W		(RWY 33)
ILS/GP	IBM	334.400 MHz	HO	522652.36N 0014437.95W		3° ILS Ref Datum Hgt 54 FT.
DME	IBM	38X 110.100 MHz	HO	522713.83N 0014506.29W	357 FT	(RWY 33) On AD. Freq paired with ILS I-BM and I-BIR. Zero range indicated at THR of Runway 15 and 33.
DME	IBIR	38X 110.100 MHz	HO	522713.83N 0014506.29W	357 FT	(RWY 15) On AD. Freq paired with ILS I-BM and I-BIR. Zero range indicated at THR of Runway 15 and 33.
NDB (L) 0.72°E (2027)	BHX	406.000 kHz	H24	522716.37N 0014508.59W		On AD. Range 25 NM.

EGBB AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Unless by prior agreement aircraft arriving or departing on international flights must clear Customs on Stands 1-86.
b) Slots for all commercial air transport movements must be cleared with Airport Co-ordination Ltd: SITA: LONACXH; e-mail: lonacxh@acl-uk.org; Tel: 020-8634 0636, Fax: 020-8564 0691.
c) Operators are required to have made arrangements for ground handling prior to arrival. Unless in an emergency, inbound diversions will only be accepted subject to stand availability. However operators should note that off-loading and aircraft turnaround may be subject to significant delays.
d) The wearing of high visibility clothing by all employed on the apron including flight crew and attendants is mandatory. It is the responsibility of the aircraft captain to ensure passengers are escorted by aircrew or ground staff at all times when on foot in external areas of the Aerodrome.
e) Aircraft not able to communicate with ATC by radio will not be accepted.
f) Fixed Electrical Ground Power (FEGP) must be used whenever available and serviceable. Use of aircraft Auxiliary Power Units (APUs), and diesel Ground Power Units is subject to strict controls as set out in published airport regulations. APUs should be shut down as soon as practicable following arrival and not restarted until 30 minutes prior to departure.

g) It is a requirement that every airline using Birmingham Airport must have local orders compatible with Birmingham Emergency Orders. Airlines, General Aviation operators and Flying clubs should also note that it is their responsibility to recover disabled aircraft and aircraft wreckage. They must have appropriate arrangements in place, and confirmed in writing to Birmingham Airport, before commencing flying operations into the aerodrome. Birmingham Airport will act as coordinating body throughout the recovery operation and has only limited equipment which may be used to assist in the recovery of aircraft.
h) Birmingham operates a standard taxi time of 15 minutes. Operators must ensure all flight plans filed include a taxi time of 15 minutes.

2 GROUND MOVEMENT

a) Clearance Delivery

i. ATC Clearances may be obtained by Voice RTF or Datalink Departure Clearance Service (DCL). Pilots should not request their clearance or SID information earlier than EOBT-15 minutes.
ii. Voice RTF

1. Pilots of departing aircraft are to call Birmingham Delivery on 121.930 MHz for ATC clearance stating aircraft type, stand number and code letter of latest ATIS received. All operators are to report ready for start with Birmingham Delivery and then proceed as directed by ATC.

iii. Data link Departure Clearance (DCL)

1. Pre-departure clearance by datalink is available at Birmingham for suitably equipped aircraft. Details of the DCL service may be obtained from ATC Operations on +44 (0)121-767 1235.
2. DCL service is available from EOBT -15 minutes.
3. DCL Clearances will not be issued if requested earlier than EOBT -15 minutes. If requested early, a standby message will be delivered and the clearance will automatically be delivered at EOBT -15 minutes.
4. Successful clearances must be ACCEPTED within 10 minutes of receipt or a 'revert to voice' message will be received.
5. If any data errors are detected by the system a 'revert to voice' message will be received.
6. If the attempt to obtain a clearance is unsuccessful the aircraft should revert to voice RTF.
7. Departing aircraft must report their aircraft type, stand number and code letter of latest ATIS received. All operators are to report ready for start with Birmingham Delivery and then proceed as directed by ATC.

b) Birmingham Airport is equipped with an Advanced Surface Movement Radar utilising Mode-S.

i. Aircraft operators intending to use Birmingham Airport shall ensure that Mode-S transponders are able to operate when the aircraft is on the ground.
ii. Flight crew shall:

1. Select AUTO mode and the assigned Mode-A code.
2. If AUTO mode is not available Select ON (e.g. XPNDR) and assigned Mode-A code:

(aa) From the request for push back or taxi whichever is earlier;

(bb) After landing, continuously, until the aircraft is fully parked on stand.

3. When fully parked on stand select STBY.

iii. Whenever the aircraft is capable of reporting Aircraft Identification (i.e. call sign used in flight), the Aircraft's Identification should also be entered from the request for push back or taxi whichever is earlier (through the FMS or the Transponder Control Panel). Flight Crew must use the ICAO defined format for entry of the Aircraft Identification.
iv. To ensure that the performance of systems based on SSR frequencies (including airborne TCAS units and SSR radars) is not compromised; TCAS should not be selected before approaching the holding point. It should then be deselected after vacating the runway.

Aircraft taxiing without flight plan should select Mode A code 2000.

c) All operators requesting tow are to contact Birmingham Ground on 121.805 MHz.
d) Taxiing with engine(s) shut down: The Airport Company will, where possible, facilitate operators wishing to taxi to or from the terminal with less than all engines running. Operators that would like to undertake taxiing with less than all engines operating should in the first instance contact the Airfield Operations Manager, with details of the particular aircraft types involved and likely schedule times.
e) Elmdon Apron:

i. Marshalling is mandatory for all aircraft parking on the Elmdon Apron;
ii. Pilots are advised that parking on the Elmdon apron is under marshaller guidance only. Care should be exercised due to the proximity of other aircraft when manoeuvring. Code E aircraft will be provided with follow-me guidance when entering Taxiway Foxtrot due to reduced main gear wheel to paved edge clearance on the bend.
iii. pilots are reminded of the need to maintain unobstructed access to the hangars at all times.

f) Due to restrictions, Taxiways Tango, Uniform and Stands 81-86 inclusive may not be used during the period Mon-Sat 2300-0700 (2200-0600), Sun 2300-0800 (2200-0700); except in extenuating circumstances as defined in the night flying policy.
g) Aircraft commanders are asked to use minimum power settings when manoeuvring.
h) Self-manoeuvring on Terminal Apron Stands is prohibited at all times unless approved by Airfield Operations.
i) Taxiway Restrictions:

i. Follow ATC instructions to vacate the runway and taxi to stand. No aircraft is to proceed beyond C2 / E2 / S3 (Runway 15 Arrivals) or A6 (Runway 33 Arrivals) without clearance from ATC.

j) A380 Aircraft Operations:

i. Operators of A380 aircraft may designate Birmingham as a nominated diversionary aerodrome subject to prior agreement with the Head of Airfield Operations Tel +44 (0)121-767 7384 and assessment of facilities at Birmingham by the Airline. The use of Birmingham as an alternate for A380 operations is also subject to UK CAA approval on an individual airline basis.
ii. Maximum of 3 A380s can be handled at any time (subject to stand availability).
iii. Follow-me may be requested via ATC if required.
iv. Departing aircraft must use the CAT III runway holds at all times, irrespective of weather conditions.
v. Diverting A380 aircraft will be provided with RFF Category 9 in accordance with UK CAA CAP 168 Chapter 8.

3 CAT II/III OPERATIONS

a) Runways 15 and 33, subject to serviceability of the required facilities, are suitable for Category ll/lll operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category ll/lll operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed by ATIS broadcast or by RTF when these procedures are in operation.
c) Departing aircraft: ATC will require departing aircraft to use the Category II/III holding points located at A2, AL1 and S2 and the Category I/II/III holding points located at E1 and F1 as appropriate.

Arriving aircraft: Pilots should delay the call 'Runway vacated' until the aircraft is clear of the amber and green coded section of the taxiway lead-off lights.

d) Arriving aircraft should note that all appropriate runway exits are illuminated. Pilots should select the first convenient exit unless advised by ATC

4 WARNINGS

a) Taxiway Delta between D4 and D5 is restricted to aircraft with a maximum wingspan of 42 M. Aircraft with a wingspan exceeding 42 M will be routed via Taxiway E.
b) Pilots of long-wheelbase aircraft such as B777-300 should exercise caution when negotiating taxiway curves and intersections as main-gear to pavement edge clearance may be limited.
c) Due to runway orientation relative to prevailing winds, pilots should anticipate crosswinds and may experience building induced turbulence and wind shear on aerodrome in strong winds.
d) Pilots are warned that there is a possibility of Pigeons crossing the runway up to 100 FT AGL. Bird dispersal including the use of pyrotechnics in operation H24.
e) Pilots are warned that unauthorised ground based laser lights have been directed towards aircraft in the vicinity of the airfield. All incidents should be reported immediately via the Tower to the Airport Authority.
f) Operators should note that Birmingham Airport is unable to accept A340-600 aircraft due to limitation on taxiway curves.
g) Aircraft requiring to back-track along the runway must be capable of turning within the runway width of 46 M.
h) Visual/light signals from ATC are not available.
i) The Alpha Loop taxiway adjacent to the Runway 15 threshold is authorised for use by aircraft of Code A-C inclusive only.
j) Pilots are warned that when the runway surface condition is broadcast as wet, standing water could be encountered on the runway edge between Taxiways Foxtrot and Bravo.
k) Airlines should be aware of the increased risk of insect nesting during the spring and summer months. During this time, the use of pitot tube covers should be considered.
l) Pilots may experience localiser deviations due to Code D and above aircraft vacating at the end of the runway.

5 HELICOPTER OPERATIONS

a) Helicopters to arrive and depart as instructed by ATC. All helicopters should expect to land on and depart from the main runway.

6 USE OF RUNWAYS

a) Preferential Runway.

Runway 33 will be selected as the preferred runway for departures and arrivals when the runway surface is dry and the mean surface wind speed as displayed from Runway 33 anemometer site is 5 KT or less. Aircraft requiring the use of Runway 15 must advise ATC and state that is for operational reasons.

7 TRAINING

a) Use of the aerodrome for training purposes is subject to the approval of Birmingham Airport Limited and the following conditions:

i. Training aircraft must climb straight ahead to 1000 FT QFE before turning, unless otherwise instructed by ATC;
ii. Aircraft above 5700 KG MTWA taking off from Runway 15 must climb straight ahead to 1.5 NM DME I BIR or 500 FT QFE whichever is later then turn as instructed by ATC;
iii. Training flights are restricted to commercial based operators (Easyjet, Jet2, Ryanair and TUI), NPAS, Air Ambulance (Helimed) and RAF Brize Norton only;
iv. Jet aircraft above 5700 KG require prior approval; contact: 0121-767 1210.

b) **Circuits**

i. Circuits by jet aircraft of more than 5700 KG MTWA on training flights will be carried out at 2500 FT QNH. Descent below this altitude should not take place until abeam the airfield on the downwind leg usually:

Runway 33 – right hand circuits;

Runway 15 – left hand circuits.

ii. Direction may be varied for environmental reasons.

c) **Procedural Instrument Training**

i. All procedural instrument training for non-turbo-jet aircraft of 5700 KG or less will require approval from ATC and is subject to prevailing traffic.

8 ROUND ROBIN FLIGHTS

a) Operators wishing to undertake round robin flights are required to contact ATC on 0121-767 1235 prior to requesting flight clearance to confirm that the intended flight routing matches the flight plan submitted. Operators wishing to undertake round robin flights who do not comply with this requirement will not receive flight clearance and pushback until the routing has been confirmed.

EGBB AD 2.21 NOISE ABATEMENT PROCEDURES

1 NOISE

a) Noise Preferential Routeings and Procedures - all aircraft inbound or outbound from this aerodrome are required to conform to the following procedures; notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

2 GENERAL

a) Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the aerodrome.
b) Unless on radar vectors, aircraft shall avoid the congested areas of Hampton-in-Arden and Balsall Common to the southeast of the aerodrome and Dorridge, Knowle and Hockley Heath to the southwest of the aerodrome.

3 TAKE-OFF AND MISSED APPROACHES

a) Every jet aircraft using the aerodrome shall, after take-off or 'go-around' attain as soon as safety permits, a rate of climb of at least 500 FT per minute at power settings which will ensure progressively decreasing noise levels at points under the flight path.

4 ILS APPROACHES

a) Unless otherwise instructed by ATC, aircraft using the ILS in IMC or VMC shall not descend below 2000 FT QNH before intercepting the glidepath nor fly below the glidepath thereafter. An aircraft approaching without assistance from ILS or radar shall follow a descent path which will not result in its being at any time lower than the approach path which would be followed by an aircraft using the ILS glidepath.

5 CONTINUOUS DESCENT APPROACHES

a) Turbo-jet and turbo-prop aircraft are expected to apply continuous descent, low power, low drag approach techniques at all times.
b) Subject to ATC instructions, inbound aircraft are to maintain as high an altitude as practical and adopt a low power, low drag, continuous descent approach profile. ATC will provide estimated track distance to touchdown to allow pilots to descend at a rate they judge best suited to achieve continuous descent without using more power or drag than necessary. The object will be to join the glidepath at the appropriate height for the distance without level flight.
c) To facilitate these techniques aircraft should be flown no faster than 250 KT from the Speed Limiting Points and below FL 100 and 250 KT-210 KT during the intermediate approach phase. Thereafter speed should be managed so as to achieve a continuous descent using as little power or drag as possible. ATC may impose speed control if required for separation purposes. ATC will impose a speed of 180 KT or less inside 10 DME I-BM/I-BIR.
d) CDAs will commence from ALT 6000 FT QNH.
e) ATC will provide regular range checks. Pilots who require additional track mileage to facilitate a successful CDA should inform ATC as soon as the requirement is apparent.

6 VISUAL CIRCUITS APPROACHES – GENERAL

a) **Propeller driven aircraft MTWA 5700 KG or less**

i. For aircraft in this category, the minimum height for joining the final approach track shall be 1000 FT QFE for all approaches.

b) All aircraft except those excluded in paragraph **6 a**

i. All aircraft carrying out visual circuits/approaches to Runways 33 and 15 shall not, unless instructed by ATC, descend below 2500 FT QNH (2175 FT QFE) on the downwind legs until they are abeam the aerodrome, after which a continuous rate is to be maintained.
ii. Aircraft must not join the final approach track to any runway at a height of less than 1825 FT QNH (1500 FT QFE), except when carrying out a right hand visual circuit to Runway 33 when the minimum height for joining the final approach track will be 1225 FT QNH (900 FT QFE).
iii. To minimise noise disturbance to congested urban areas adjacent to the aerodrome, base turns to visual circuits to Runway 15 and 33 are shown in the map at AD 2-EGBB-4-1. These should be flown whenever possible.
iv. To minimise disturbance in areas adjacent to the aerodrome, captains are requested to avoid the use of reverse thrust after landing, consistent with safe operation of the aircraft, especially between 2300-0700 (2200-0600).

7 NOISE PREFERENTIAL ROUTINGS

a) The Noise Preferential Routings given below are compatible with ATC requirements and shall apply in both VMC and IMC. The tracks are to be flown by all departing jet aircraft and by all other aircraft with a maximum certified weight exceeding 5700 KG unless otherwise instructed by ATC or unless deviations are required in the interests of safety. The use of the route is supplementary to noise abatement take-off techniques. After take-off, pilots should ensure that they are at a minimum height of 500 FT QFE before initiating any turn. The obligations of NPRs for Runway 33 cease when the aircraft is at an altitude of 3000 FT or above. The obligations of NPRs for Runway 15 northbound departures cease when the aircraft is at an altitude of 3000 FT or above. The obligations of NPRs for Runway 15 southbound departures (including COWLY, CPT, DTY) cease when the aircraft is at an altitude of 4000 FT or above.

i. Take-off – Runway 15:

Climb straight ahead to 1.5 NM DME I BIR or 500 FT QFE whichever is later then:

Take-off Runway	Routing	Procedure
15	Left turn to a track of less than 060°	Turn left as instructed by ATC
	Left turn to a track of 060° or greater	At 2 DME I-BIR turn left as instructed by ATC
	Right turn out (non-MOSUN/LUXTO)	At 4 DME I-BIR turn right as instructed by ATC
	MOSUN/LUXTO	At 2 DME I-BIR track 165° to 4 DME I-BIR
	Unable RNAV	At 2 DME I-BIR track 165° to 4 DME I-BIR

ii. Take-off – Runway 15 Aerodrome DME Out of Service:

Climb straight ahead to 4.5 NM DME HON or 500 FT QFE whichever is later then:

Take-off Runway	Routing	Procedure
15	Left turn to a track of less than 060°	Turn left as instructed by ATC
	Left turn to a track of 060° or greater	At 1.5 DME HON turn left as instructed by ATC
	Right turn out (non-MOSUN/LUXTO)	At 1.5 DME HON turn right as instructed by ATC
	MOSUN/LUXTO	Track 165° to 2 DME HON
	Unable RNAV	Track 165° to 2 DME HON

iii. Take-off – Runway 33:

Climb straight ahead to 2 NM DME I BM or 500 FT QFE whichever is later. Then either

Take-off Runway	Routing	Procedure
33	Left or right turn out°	At 2 NM DME I BM turn as instructed by ATC

iv. Take-off – Runway 33 Aerodrome DME out of service:

Climb straight ahead to 9 NM DME HON or 500 FT QFE whichever is later. Then either:

Take-off Runway	Routing	Procedure
33	Left or right turn out	At 9 NM DME HON turn as instructed by ATC

Note 1: *Directions of turn onto course shall be such that as far as possible the surrounding built-up areas will be avoided.*

b) Except in emergency and for safety reasons no aircraft movements or activities involving the running of aircraft engines shall take place on or along the first 100 M of Runway 15, Taxiway A or Taxiway B north of Hold A6 between the hours of 2300-0700 (2200-0600), unless the aircraft landed at the Airport before 2300 (2200) and is proceeding to the aprons. Pilots should note that in such circumstances Runway 15 TORA/ASDA/TODA will be reduced by 150 M.

8 AUXILIARY POWER UNITS (APU)

a) Except for stands not equipped with a serviceable Fixed Electrical Ground Power Unit, APU must be shut down immediately on arrival on stand and not restarted more than 30 minutes prior to departure without permission from the aerodrome operator.

b) Except in an emergency, no aircraft activities involving the running of APU's shall take place on the aprons between the hours of 2300-0600 (2200-0500), unless such activities are necessary in the case of an aircraft which has landed at the aerodrome before 2330 (2230).

9 NIGHT NOISE RESTRICTIONS/ALLOCATIONS

a) Birmingham Airport operates a noise policy restricting the operation of certain types of aircraft during the night period of 2330-0600 (2230-0500). Full details are available from Airport Co-ordination Limited or the Airfield Duty Manager.
b) Aircraft with a noise classification of 93 EPNdB or more are not permitted to be scheduled during the night period. Aircraft with a noise classification of 93 EPNdB or more may be permitted to operate in exceptional circumstances subject to prior approval by the Airfield Duty Manager.
c) All movements recording a level above 83 dB(A) Lmax on departure at the noise monitors located 6.5 KM from ‘start of roll’ during the night period will be subject to a runway surcharge.
d) Records of night infringements are available on request from the Birmingham Airport Sustainability Team.

10 RESTRICTIONS

a) Restrictions are imposed on the ground running of engines in the interests of noise abatement and operators are advised to contact the Airfield Duty Manager (0121-767 7139).

11 NOISE ABATEMENT PROCEDURES FOR HELICOPTERS

a) To minimise noise disturbance to urban areas adjacent to the airport, helicopters should, except in the case of an emergency, avoid overflying the noise sensitive area at less than 500 FT AAL. This area extends between 230° and 290° from the Western end of stand 506, to a distance of 0.5 NM

EGBB AD 2.22 FLIGHT PROCEDURES

1 RADIO COMMUNICATION FAILURE PROCEDURES

In the event of complete radio failure in an aircraft the pilot is to adopt the appropriate procedures notified at ENR 1.1.3, with the exception described below.

a) Inbound Aircraft

i. When complete communications failure occurs in the aircraft before ETA, or before EAT when this has been received and acknowledged, the aircraft will:

1. fly to the appropriate holding point (GROVE or CHASE);
2. hold at the last assigned level until the last acknowledged ETA plus 10 minutes or EAT when this has been given;
3. descend to the lowest whole flight level which gives at least 1000 FT separation from the Transition Altitude. When level transit from the appropriate holding point (GROVE or CHASE) to the BHX holding point;
4. when established in the BHX hold commence descent for landing in accordance with the approach procedure for the runway-in-use and effect a landing within 30 minutes (or later if able to approach and land visually).

ii. If complete radio communications failure occurs after an aircraft has reported to ATC on reaching the holding point, the aircraft will:

1. hold at the last assigned level at GROVE or CHASE until:

(aa) ATA over the holding point plus 10 minutes or 10 minutes after the last acknowledged communication with ATC, whichever is the later; or

(bb) EAT when this has been received and acknowledged;

2. descend to the lowest whole flight level which gives at least 1000 FT separation from the Transition Altitude. When level transit from the appropriate holding point (GROVE or CHASE) to the BHX holding point;
3. when established in the BHX hold commence descent for landing in accordance with the approach procedure for the runway-in-use and effect a landing within 30 minutes (or later if able to approach and land visually).

iii. When complete radio communication failure occurs during intermediate or final approach under radar control the procedures to be followed are detailed at AD 2-EGBB-5-1.
iv. When complete radio communication failure occurs in the aircraft following a missed approach the aircraft will:

1. fly the appropriate missed approach procedure to BHX NDB(L);
2. complete at least one holding pattern at 2500 FT;
3. then commence descent for landing in accordance with the approach procedure for the runway-in-use and effect a landing within 30 minutes (or later if able to approach and land visually)

v. The routes and levels to be used when leaving the Zone or Holding Area in accordance with the procedures given at ENR 1.1.3 are shown in the table below:

Position at time of decision	Route
BHX NDB(L)	
GROVE	
CEDAR	Track 270°T at last assigned altitude
CHASE	
MAPLE	

b) Outbound Aircraft

i. Aircraft departing under radar control from Birmingham may be instructed by the radar controller, via aerodrome control, to maintain specific headings.
ii. If, after having been instructed to maintain a specific heading after take-off, a pilot experiences radio failure, he shall climb on the assigned heading to the first altitude detailed in the clearance, maintain this heading and altitude for two minutes, and then proceed in accordance with the published radio failure procedures.

2 PROCEDURE FOR INBOUND/OUTBOUND AIRCRAFT VIA MOSUN/LUXTO

a) Birmingham-MOSUN Procedures

The Birmingham-MOSUN Procedure is only available to turbo-prop aircraft joining or leaving MOSUN FL 160 or below between Mon-Fri 0900-1700 (0800-1600) excluding public holidays.

b) Operators intending their aircraft to make use of the MOSUN procedure on departure must ensure that the following addresses are added to the flight plan:

EGWDZQZX and EGFFZPZX and EGTTZFZC

Significant delays may be encountered in the event that these addresses are omitted.

c) MOSUN Departure Clearances

When Runway 15 is in use, aircraft departing towards MOSUN will be instructed to follow the MOSUN 15 procedure. For example: “Callsign, MOSUN 15 procedure, squawk XXXX”.

i. MOSUN 15 Procedure - Runway 15

At 2 DME, turn right to track 165 to 4 DME, then turn right cleared to leave controlled airspace on track MOSUN, climb to altitude 6000 FT.

When Runway 33 is in use, aircraft departing towards MOSUN will be issued with the BRUMI 1M SID.

ii. BRUMI 1M Departure - Runway 33

The BRUMI 1M SID is available to turbo prop aircraft joining at MOSUN FL 160 or below between the hours specified in paragraph 2a.

d) During the hours when N92 is available:

When Runway 33 is in use, aircraft filing via N92 will receive an BRUMI 1M departure.

When Runway 15 is in use, aircraft departing to join N92 at LUXTO will be instructed to follow the LUXTO 15 procedure. For example:

“Callsign, LUXTO 15 procedure, squawk XXXX”

i. LUXTO 15 procedure – Runway 15

At 2 DME, turn right to track 165 to 4 DME, then turn right direct LUXTO, climb to altitude 6000 FT.

3 PROCEDURE FOR INBOUND AIRCRAFT

a) **Standard Terminal Arrival Routes (STARs)**

i. Standard Arrival routes for aircraft inbound from the airways system will be routed via the Standard Terminal Arrival Routes (STARs) detailed at AD 2-EGBB-7 charts.
ii. Where STARs are designated as RNAV1 Only, Non-RNAV 1 aircraft should file the via the existing route structure as featured in the SRD. Aircraft should not proceed beyond CHASE or GROVE without ATC clearance.

b) **Clearance to enter the CTR/CTA**

i. Aircraft flying the Airways System will be cleared into the CTR/CTA without having to request a specific entry clearance.
ii. Aircraft wishing to enter the CTR/CTA from the London FIR must obtain clearance from Birmingham Radar Control before entering Controlled Airspace.

c) **Holding.** Holding patterns are as follows:

Birmingham NDB(L) BHX	Holding axis 147° MAG, turning right at the facility. (Lowest holding ALT 2500 FT) **(See Note)**.
GROVE	Holding fix HON VOR/DME 284°/10 NM on an axis of 104° MAG turning right at the fix. Lowest holding level FL 70. Speed limit 210 KT.
CEDAR	Holding axis 147° MAG, turning right at the fix. (Lowest holding ALT 2500 FT) (**See Note**).
CHASE	Holding fix HON VOR/DME 330°/18 NM on an axis of 150° MAG turning right at the fix. Lowest holding level 5000 FT (**See Note**). Speed limit 210 KT.
MAPLE	Holding axis 327° MAG, turning left at the fix. (Lowest holding ALT 2500 FT) (**See Note**).

Note: *Aircraft holding at the above facilities may be required to do so above the upper limit of the Birmingham CTA, and within the Daventry CTA.*

d) **Missed Approaches**

i. Loss of Radio Communications – The Birmingham Standard Missed Approach Procedures are detailed within the associated Instrument Flight Procedure Charts. The following procedures shall apply in the event of executing a missed approach with loss of radio communications:

Landing direction	Procedure
Runway 15	Climb ahead to 1000 FT (QNH). Turn right onto track 166° MAG to 2500 FT or I BIR DME 4, whichever is the later, then turn left to NDB(L) BHX.
Runway 33	Climb ahead to 2500 FT (QNH) or I BM DME 2, whichever is the later. Then procedure turn right to NDB(L) BHX.

ii. Non-Radar Procedures – The Birmingham Standard Missed Approach Procedures are detailed within the associated Instrument Flight Procedure Charts. The following procedures shall apply in the event of executing a missed approach during non-radar operations.

Landing direction	Procedure
Runway 15	Climb ahead to 1000 FT (QNH). Turn right onto track 166° MAG to 3000 FT or I BIR DME 4, whichever is the later, then turn left to NDB(L) BHX.
Runway 33	Climb ahead to 3000 FT (QNH) or I BM DME 2, whichever is the later. Then procedure turn right to NDB(L) BHX.

e) **Speed Control**

i. Pilots should typically expect the following speed restrictions to be enforced:
220 KT from the holding facility during intermediate approach phase;
180 KT on base leg/closing heading to the ILS;
180-160 KT when first established on the ILS;
160 KT between 7 and 4 DME
ii. These speeds are mandatory for applying standardised CDA approaches, optimizing departure flow and for ATC separation purposes. In the event of a new (non-speed related) ATC Clearance being issued (eg an instruction to descend on ILS), pilots are not absolved from a requirement to maintain a previously allocated speed. All speed restrictions are to be flown as accurately as possible. Aircraft unable to conform to these speeds should inform ATC and state what speeds will be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as feasible within their own operational constraints, advising ATC if circumstances necessitate a change of speed for aircraft performance reasons.

4 PROCEDURES FOR OUTBOUND AIRCRAFT

a) After departure, aircraft shall remain on the Tower frequency until instructed.
b) Departure Speed Restriction: In order to optimise the departure flow and assist in the separation between successive departing aircraft a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase No ATC Speed Restriction. Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation.
c) If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation.
d) Pilots of departing VFR flights should expect departure via one of the following 4 designated VRPs closest to the required departure track, not above altitude 2000 FT:

i. M42 Junction 10 (Tamworth);
ii. M6 Junction 3 (Bedworth);
iii. M40/M42 Interchange;
iv. Frankley Reservoirs.

Pilots should state requested VRP on first contact with ATC.

5 SPECIAL VFR FLIGHT

a) Special VFR clearances for flights within the Birmingham CTR may be requested and will be given whenever traffic conditions permit. These flights are subject to the general conditions laid down for Special VFR flights.
b) Aircraft may be given a radar service whilst within the CTR if, due to the traffic situation, ATC considers it advisable. It will remain the responsibility of the pilot to remain at all times in flight conditions which will enable him to determine his flight path and to keep clear of obstacles, and to ensure that he is able to comply with the requirements of SERA.3105 Minimum Heights, SERA.5010 Special VFR in control zones and ENR 1.2 paragraph 1.3(l). Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
c) Clearance to make Special VFR flights below 1500 FT ALT will not be given in the sector of the Birmingham CTR enclosed by the bearings 240°T and 360°T.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

7 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Birmingham controlled airspace, clear of Coventry within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Birmingham Radar frequency, 123.980 MHz, are encouraged to select SSR code 0010.

524800N 0015216W - 524216N 0021343W -
523130N 0021145W - 520515N 0014622W -
521600N 0011000W - 523440N 0013300W -
524800N 0015216W.

b) Selection of 0010 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the controlled airspace at all times.
c) Whilst squawking 0010 pilots should be aware that Birmingham Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 0010 shall be deselected.

EGBB AD 2.23 ADDITIONAL INFORMATION

Not Applicable.

EGBB AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBB-2-1
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO
AD 2.EGBB-2-2
A380 GROUND MOVEMENT - ICAO
AD 2.EGBB-2-3
VISUAL CIRCUIT RWY 15/33 - RECOMENDED TURNS TO BASE LEG
AD 2.EGBB-4-1
CONTROL ZONE and CONTROL AREA CHART - VRPS
AD 2.EGBB-4-3
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGBB-5-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 15 DTY 2Y - ICAO
AD 2.EGBB-6-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 15 COWLY 2Y - ICAO
AD 2.EGBB-6-2
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 15 CPT 2Y - ICAO
AD 2.EGBB-6-3
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 15/33 LUVUM 1Y 1M - ICAO
AD 2.EGBB-6-4
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 33 ADMEX 1M UNGAP 1M - ICAO
AD 2.EGBB-6-5
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 33 BRUMI 1M - ICAO

AD 2.EGBB-6-6
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 15 DTY 2Y COWLY 2Y
AD 2.EGBB-6-7
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 15 CPT 2Y LUVUM 1Y
AD 2.EGBB-6-8
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 33 LUVUM 1M ADMEX 1M UNGAP 1M BRUMI 1M
AD 2.EGBB-6-9
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) FIGZI 1B - ICAO
AD 2.EGBB-7-1
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) MAKUX 2B - ICAO
AD 2.EGBB-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) HEMEL 1B SILVA 1B - ICAO
AD 2.EGBB-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) DOLOP 1B MALUD 1B AMPIT 1B WAL 1B - ICAO
AD 2.EGBB-7-4
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BEGAM 1B CROFT 1B LIBSO 1B VEGUS 1B - ICAO
AD 2.EGBB-7-5
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) POL 1B - ICAO
AD 2.EGBB-7-6
STANDARD INSTRUMENT ARRIVAL CODING TABLES FIGZI 1B MAKUX 2B HEMEL 1B SILVA 1B
AD 2.EGBB-7-7
STANDARD INSTRUMENT ARRIVAL CODING TABLES DOLOP 1B MALUD 1B AMPIT 1B WAL 1B
AD 2.EGBB-7-8
STANDARD INSTRUMENT ARRIVAL CODING TABLES BEGAM 1B CROFT 1B LIBSO 1B
AD 2.EGBB-7-9
STANDARD INSTRUMENT ARRIVAL CODING TABLES VEGUS 1B POL 1B
AD 2.EGBB-7-10
RNAV HOLD CODING TABLES GROVE CHASE
AD 2.EGBB-7-11
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 15 - ICAO
AD 2.EGBB-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 15 - ICAO
AD 2.EGBB-8-2
INSTRUMENT APPROACH CHART RNP RWY 15 - ICAO
AD 2.EGBB-8-3
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 15 - ICAO
AD 2.EGBB-8-4
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 33 - ICAO
AD 2.EGBB-8-5
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 33 - ICAO
AD 2.EGBB-8-6
INSTRUMENT APPROACH CHART RNP RWY 33 - ICAO
AD 2.EGBB-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 33 - ICAO
AD 2.EGBB-8-8
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 15
AD 2.EGBB-8-9
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 33
AD 2.EGBB-8-10

EGBB AD VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

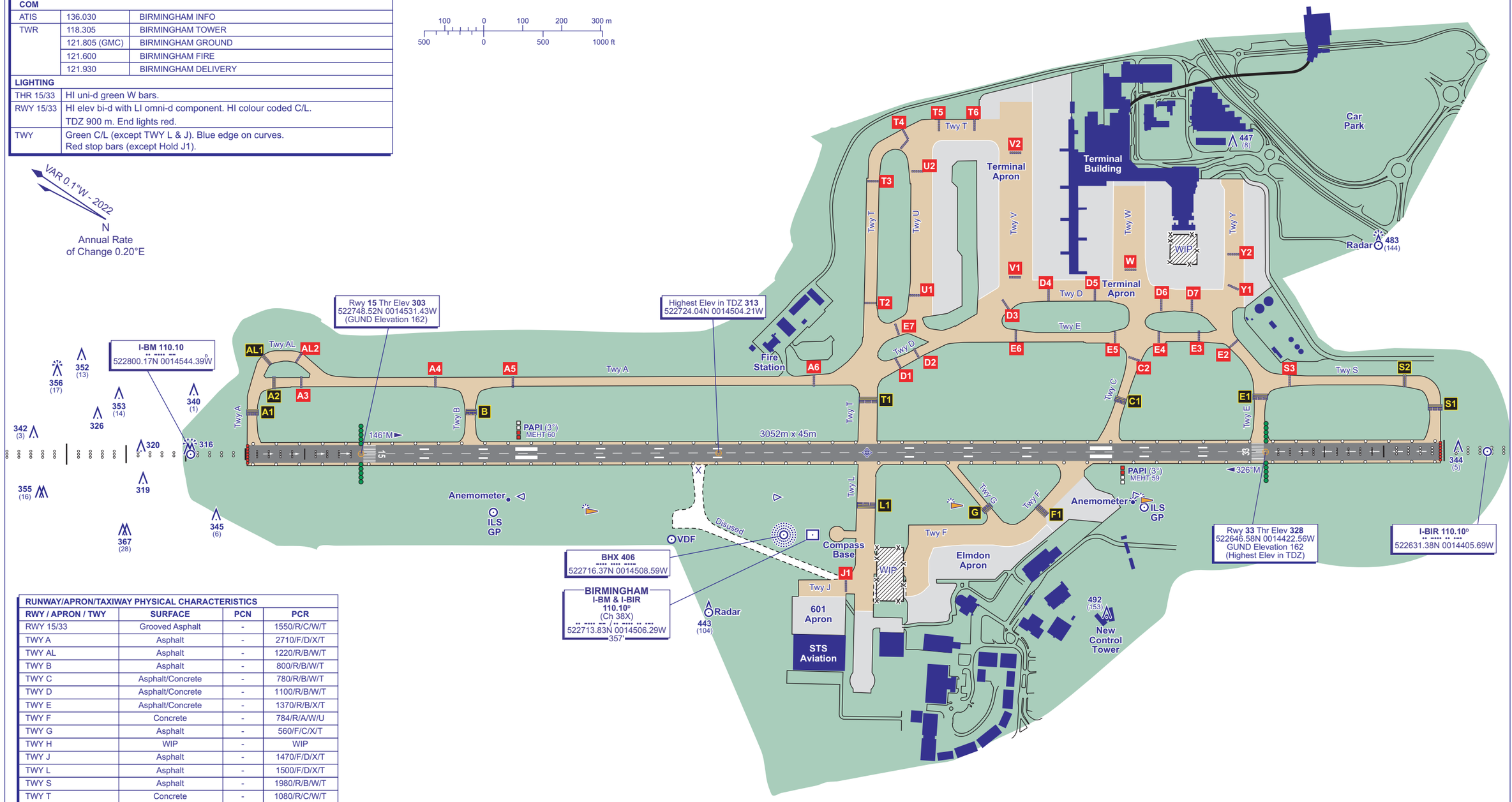
ARP 522714N 0014453W

AD ELEV 339FT

BIRMINGHAM
EGBB

COM		
ATIS	136.030	BIRMINGHAM INFO
TWR	118.305	BIRMINGHAM TOWER
	121.805 (GMC)	BIRMINGHAM GROUND
	121.600	BIRMINGHAM FIRE
	121.930	BIRMINGHAM DELIVERY

LIGHTING	
THR 15/33	HI uni-d green W bars.
RWY 15/33	HI elev bi-d with LI omni-d component. HI colour coded C/L. TDZ 900 m. End lights red.
TWY	Green C/L (except TWY L & J). Blue edge on curves. Red stop bars (except Hold J1).



RUNWAY/APRON/TAXIWAY PHYSICAL CHARACTERISTICS			
RWY / APRON / TWY	**SURFACE**	**PCN**	**PCR**
RWY 15/33	Grooved Asphalt	-	1550/R/C/W/T
TWY A	Asphalt	-	2710/F/D/X/T
TWY AL	Asphalt	-	1220/R/B/W/T
TWY B	Asphalt	-	800/R/B/W/T
TWY C	Asphalt/Concrete	-	780/R/B/W/T
TWY D	Asphalt/Concrete	-	1100/R/B/W/T
TWY E	Asphalt/Concrete	-	1370/R/B/X/T
TWY F	Concrete	-	784/R/A/W/U
TWY G	Asphalt	-	560/F/C/X/T
TWY H	WIP	-	WIP
TWY J	Asphalt	-	1470/F/D/X/T
TWY L	Asphalt	-	1500/F/D/X/T
TWY S	Asphalt	-	1980/R/B/W/T
TWY T	Concrete	-	1080/R/C/W/T
TWY U	Concrete	-	1004/R/B/W/U
TWY V	Asphalt	-	3780/F/B/X/T
TWY W	Asphalt	-	2120/F/A/X/T
TWY Y	Concrete	-	750/R/B/W/T
Terminal Apron	*See AD 2-EGBB-2-2*		
Elmdon Apron			
601 Apron			

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**492** (153)

CHANGE (5/25): ELMDON APRON. HOLD H MOVED. TWY H UNDER CONSTRUCTION. BUILDINGS.

AERO INFO DATE 06 MAR 25

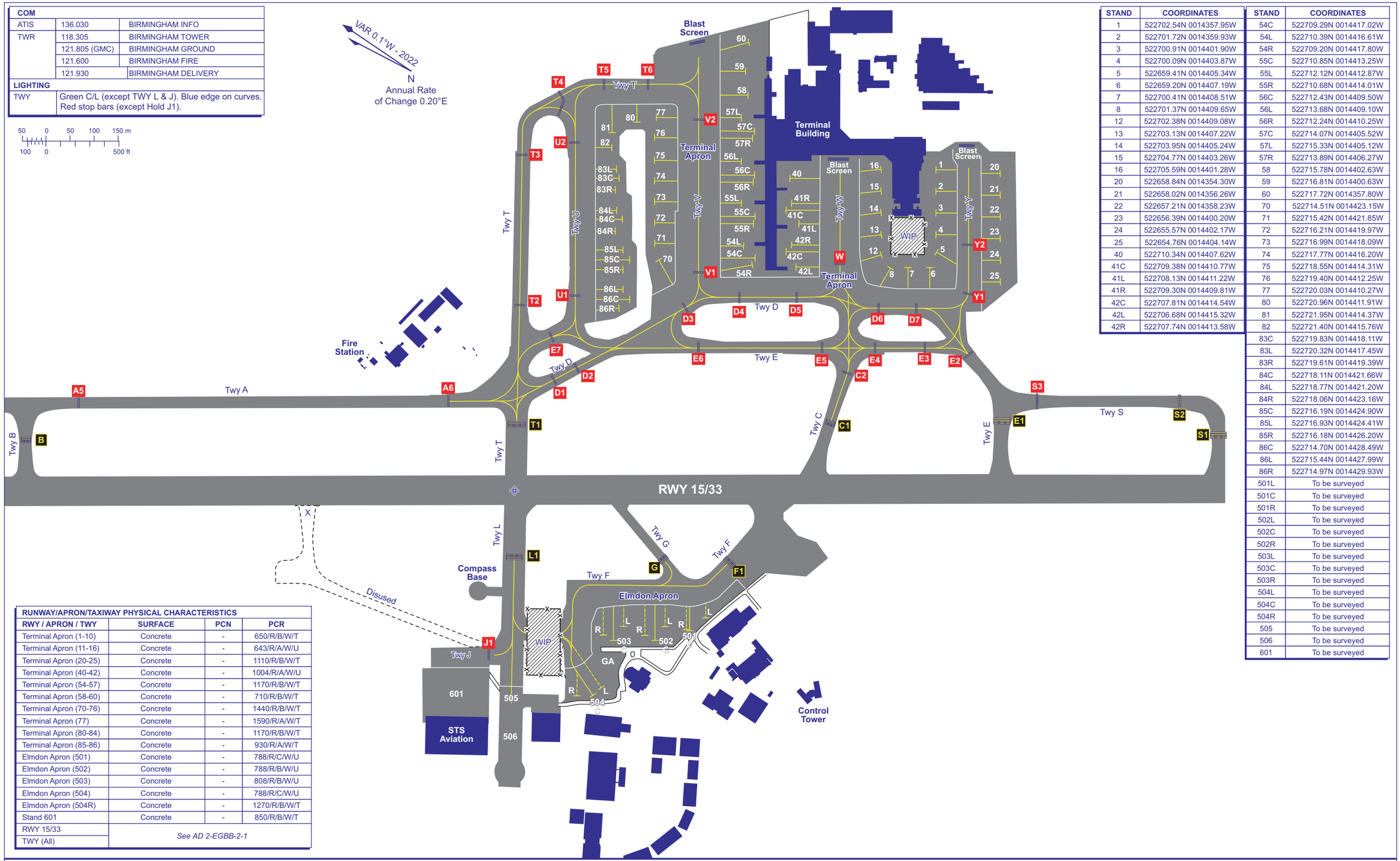
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

ARP 522714N 0014453W

AD ELEV 339FT

BIRMINGHAM
EGBB

COM		
ATIS	136.030	BIRMINGHAM INFO
TWR	118.305	BIRMINGHAM TOWER
	121.805 (GMC)	BIRMINGHAM GROUND
	121.600	BIRMINGHAM FIRE
	121.930	BIRMINGHAM DELIVERY
LIGHTING		
TWY	Green C/L (except TWY L & J). Blue edge on curves. Red stop bars (except Hold J1).	



RUNWAY/APRON/TAXIWAY PHYSICAL CHARACTERISTICS			
RWY / APRON / TWY	**SURFACE**	**PCN**	**PCR**
Terminal Apron (1-10)	Concrete	-	650/R/B/W/T
Terminal Apron (11-16)	Concrete	-	643/R/A/W/U
Terminal Apron (20-25)	Concrete	-	1110/R/B/W/T
Terminal Apron (40-42)	Concrete	-	1004/R/A/W/U
Terminal Apron (54-57)	Concrete	-	1170/R/B/W/T
Terminal Apron (58-60)	Concrete	-	710/R/B/W/T
Terminal Apron (70-76)	Concrete	-	1440/R/B/W/T
Terminal Apron (77)	Concrete	-	1590/R/A/W/T
Terminal Apron (80-84)	Concrete	-	1170/R/B/W/T
Terminal Apron (85-86)	Concrete	-	930/R/A/W/T
Elmdon Apron (501)	Concrete	-	788/R/C/W/U
Elmdon Apron (502)	Concrete	-	788/R/B/W/U
Elmdon Apron (503)	Concrete	-	808/R/B/W/U
Elmdon Apron (504)	Concrete	-	788/R/C/W/U
Elmdon Apron (504R)	Concrete	-	1270/R/B/W/T
Stand 601	Concrete	-	850/R/B/W/T
RWY 15/33	*See AD 2-EGBB-2-1*		
TWY (All)			

STAND	COORDINATES	STAND	COORDINATES
1	522702.54N 0014357.95W	54C	522709.29N 0014417.02W
2	522701.72N 0014359.93W	54L	522710.39N 0014416.61W
3	522700.91N 0014401.90W	54R	522709.20N 0014417.80W
4	522700.09N 0014403.87W	55C	522710.85N 0014413.25W
5	522659.41N 0014405.34W	55L	522712.12N 0014412.87W
6	522659.20N 0014407.19W	55R	522710.68N 0014414.01W
7	522700.41N 0014408.51W	56C	522712.43N 0014409.50W
8	522701.37N 0014409.65W	56L	522713.68N 0014409.10W
12	522702.38N 0014409.08W	56R	522712.24N 0014410.25W
13	522703.13N 0014407.22W	57C	522714.07N 0014405.52W
14	522703.95N 0014405.24W	57L	522715.33N 0014405.12W
15	522704.77N 0014403.26W	57R	522713.89N 0014406.27W
16	522705.59N 0014401.28W	58	522715.78N 0014402.63W
20	522658.84N 0014354.30W	59	522716.81N 0014400.63W
21	522658.02N 0014356.26W	60	522717.72N 0014357.80W
22	522657.21N 0014358.23W	70	522714.51N 0014423.15W
23	522656.39N 0014400.20W	71	522715.42N 0014421.85W
24	522655.57N 0014402.17W	72	522716.21N 0014419.97W
25	522654.76N 0014404.14W	73	522716.99N 0014418.09W
40	522710.34N 0014407.62W	74	522717.77N 0014416.20W
41C	522709.38N 0014410.77W	75	522718.55N 0014414.31W
41L	522708.13N 0014411.22W	76	522719.40N 0014412.25W
41R	522709.30N 0014409.81W	77	522720.03N 0014410.27W
42C	522707.81N 0014414.54W	80	522720.96N 0014411.91W
42L	522706.68N 0014415.32W	81	522721.95N 0014414.37W
42R	522707.74N 0014413.58W	82	522721.40N 0014415.76W
		83C	522719.83N 0014418.11W
		83L	522720.32N 0014417.45W
		83R	522719.61N 0014419.39W
		84C	522718.11N 0014421.66W
		84L	522718.77N 0014421.20W
		84R	522718.06N 0014423.16W
		85C	522716.19N 0014424.90W
		85L	522716.93N 0014424.41W
		85R	522716.18N 0014426.20W
		86C	522714.70N 0014428.49W
		86L	522715.44N 0014427.99W
		86R	522714.97N 0014429.93W
		501L	To be surveyed
		501C	To be surveyed
		501R	To be surveyed
		502L	To be surveyed
		502C	To be surveyed
		502R	To be surveyed
		503L	To be surveyed
		503C	To be surveyed
		503R	To be surveyed
		504L	To be surveyed
		504C	To be surveyed
		504R	To be surveyed
		505	To be surveyed
		506	To be surveyed
		601	To be surveyed

CHANGE (6/25): STAND 502 PCR. STANDS 505 & 506 ADDED.

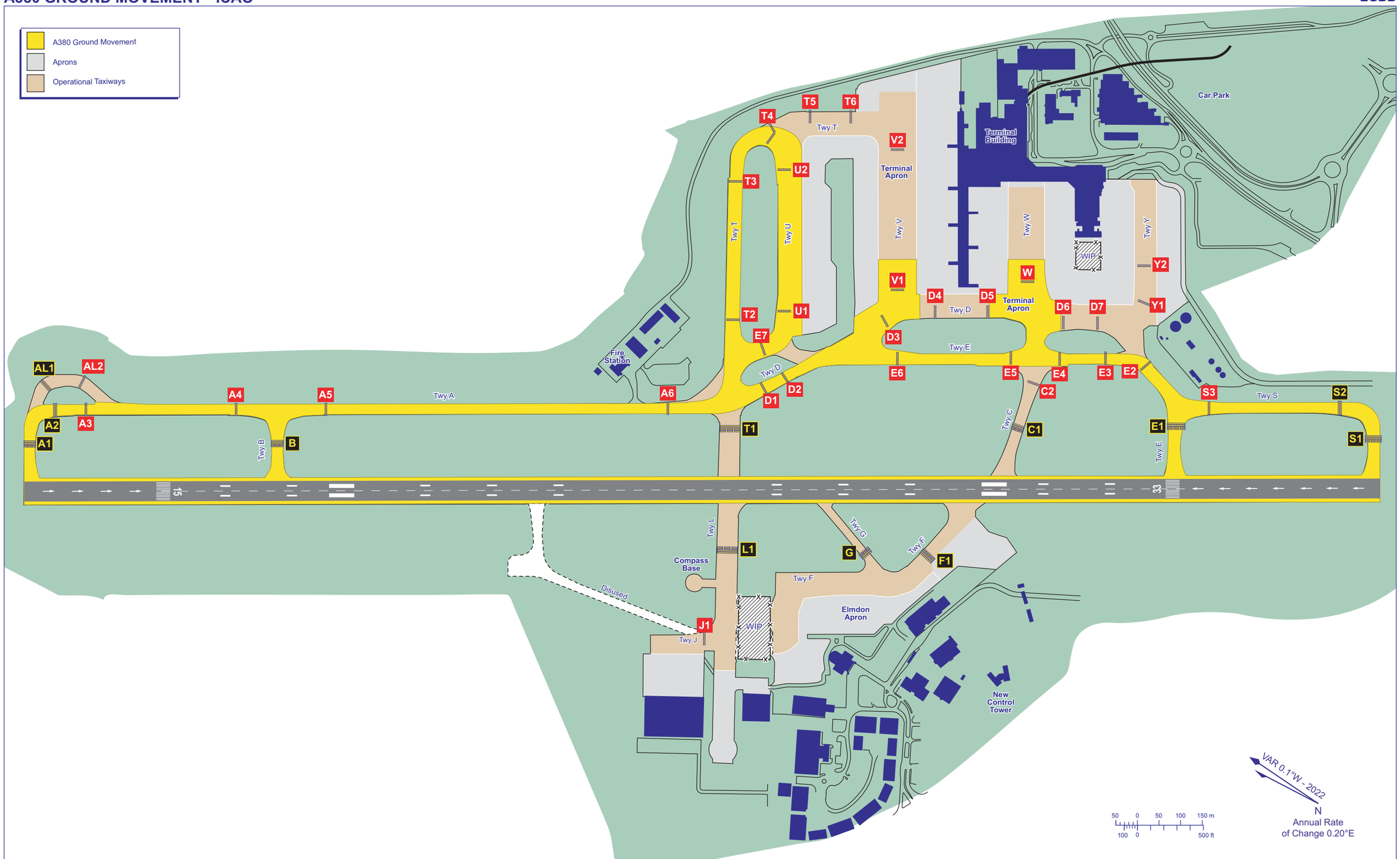
AERO INFO DATE 07 APR 25

AERODROME CHART
A380 GROUND MOVEMENT - ICAO

ARP 522714N 0014453W

AD ELEV 339FT

BIRMINGHAM
EGBB



CHANGE (5/25): ELMDON APRON. HOLD H MOVED. TWY H UNDER CONSTRUCTION. BUILDINGS. EDITORIAL.

AERO INFO DATE 06 MAR 25

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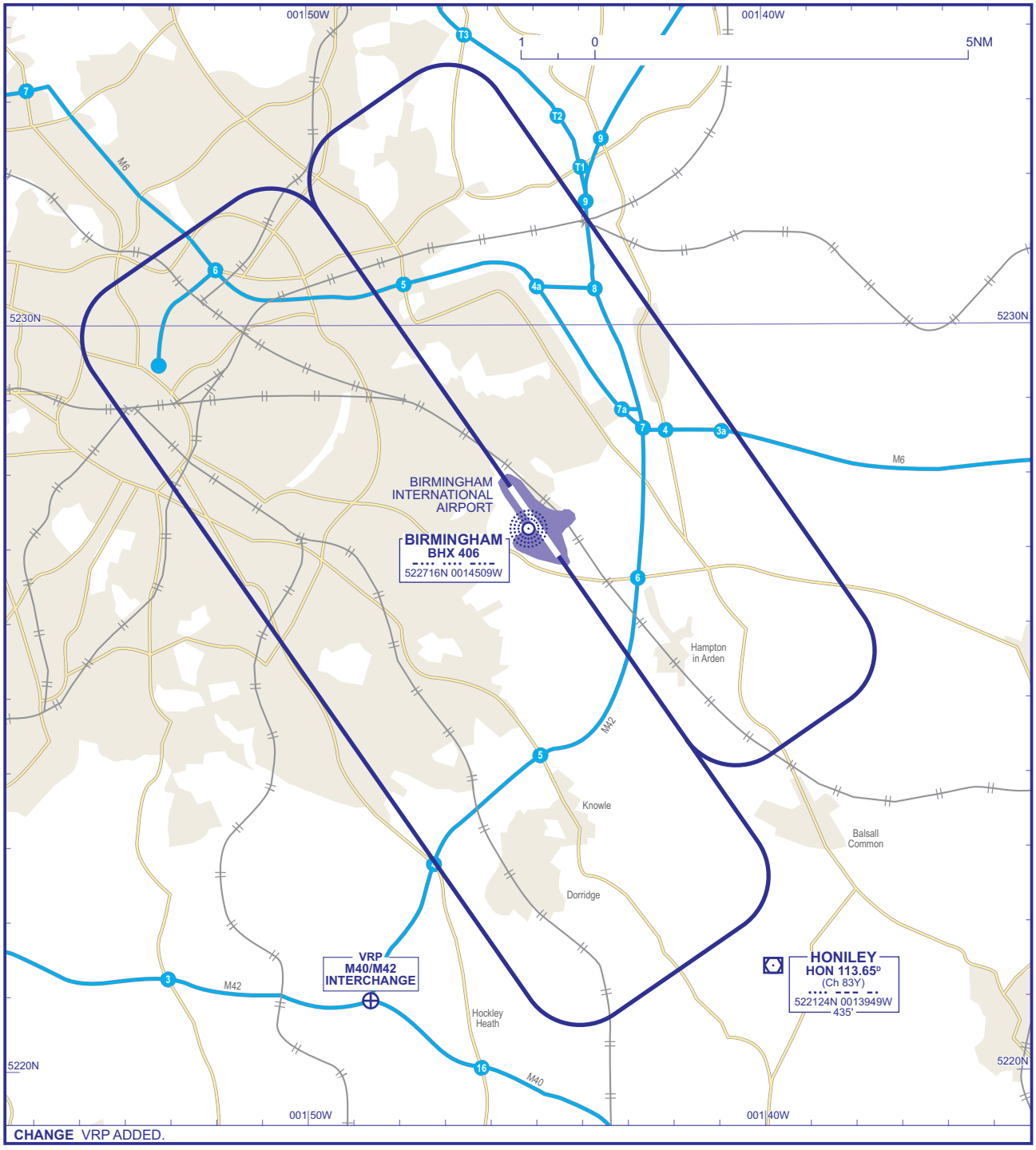
VISUAL CIRCUIT RWY 15/33 - RECOMMENDED TURNS TO BASE LEG



AERO INFO DATE 10 JAN 11

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CHANGE (4/25): HOSPITAL HELI SITE ADDED.
AERO INFO DATE 23 JAN 25

CONTROL ZONE AND CONTROL AREA - VRPs

VAR 0.1°W / 2022
N
Annual Rate of Change 0.20°E

002 00W
001 30W
5230N

ARDEN HOUSE Fm
AIAA SHAWBURY FL70 SFC
SEIGHFORD
DAVENTRY CTA 8 A FL195 5500
DAVENTRY CTA 9 A FL195 4500
DAVENTRY CTA 20 A FL195 FL85
DAVENTRY CTA 19 A FL195 FL145
TATENHILL
EAST MIDS CTA 12 D 4500 3500
EAST MIDS CTA 11 D 4500 3000
EAST MIDS CTA 6 D 5500 2500
DERBY
DAVENTRY CTA 3 A FL195 5500
DONNINGTON Pk
EMW
LANGLEY PRIORY
EAST MIDLANDS CTA 5 D 5500 1500
EAST MIDLANDS CTR 2 D 5500 SFC
EAST MIDS CTA 13 D 4500 2500
EAST MIDLANDS CTA 4 D 5500 2500
EAST MIDLANDS CTA 9 D 5500 4500
VALLEY Fm
OTHERTON
STAFFORDSHIRE
GVS 2700 SFC
CATTON
GRANGEWOOD
PACKINGTON
SITTLES Fm
FISHERWICK
COTTAGE Fm
TWYCROSS
WHARF Fm
BIRMINGHAM CTA 3 D 4500 3500
VRP LICHFIELD CITY RAILWAY JUNCTION
VRP M42 JUNCTION 11 (MEASHAM)
VRP M6 HILTON PARK SERVICES
BIRMINGHAM CTA 9 D FL85 FL65
BIRMINGHAM CTA 1 D 4500 1500
DAVENTRY CTA 19 A FL195 FL145
VRP M42 JUNCTION 10 (TAMWORTH)
STOKE GOLDING
BAXTERLEY
VRP NUNEATON (DISUSED AD)
BIRMINGHAM CTA 6 D FL145 3500
BIRMINGHAM CTA 8 D 4500 2000
VRP M6 JUNCTION 3 (BEDWORTH)
HOSPITAL
BIRMINGHAM
BIRMINGHAM CTR D 4500 SFC
DAVENTRY CTA 9 A FL195 4500
PETERHALL Fm
VRP FRANKLEY RESERVOIRS
DAVENTRY CTA 19 A FL195 FL145
BIRMINGHAM CTA 7 D FL145 FL65
GVS 2200 SFC
VRP M40/M42 INTERCHANGE
HON
COVENTRY
STONEY LANE
BIRMINGHAM CTA 5 D FL145 2500
BIRMINGHAM CTA 2 D 4500 1500
BIRMINGHAM CTA 4 D 4500 3500
DROITWICH
VRP SOUTHAM
COTSWOLD CTA 17 C FL195 FL175
VRP STUDLEY
BIRMINGHAM CTA 10 D FL105 FL65
SNITTERFIELD
WELLESBOURNE MOUNTFORD
DAVENTRY CTA 19 A FL195 FL145
DAVENTRY CTA 23 C FL145 FL105
PERSHORE 700 SFC
Laser Site UNL SFC
ALSCOT
DAVENTRY CTA 18 A FL195 5500
D218C FL660 FL160
D213 2400 SFC
BIDFORD
R204 2200 SFC
COTSWOLD CTA 18 C FL195 FL75
DAVENTRY CTA 17 A FL195 FL65
SHOTTESWELL
DAVENTRY CTA 4 A FL195 5500
EDGE HILL/ Shenington
CROFT Fm
STRENSHAM
D218B FL240 FL50
DAVENTRY CTA 16 A FL195 FL75
DAVENTRY CTA 24 C FL145 FL105
DAVENTRY CTA 15 A FL195 FL105
DAVENTRY CTA 14 A FL195 FL85
GVS 2600 SFC

478 451 502 820 (604) 1080 (318) 725 (413) 795 611 1487 (1001) 1358 (884) 744 1035 942 955 683 662 601 538 880 (700) 876 935 (529) 978 (517) 770 (310) 816 (427) 853 (368) 803 (361) 269 635 849 761 604 597 581 446 561 609 (335) 433 599 (300) 658 (324) 439 689 706 437 746 358

5 0 5NM
Scale 1:250,000

Controlled airspace with an upper limit of FL195 and above is not shown.

BIRMINGHAM

AD 2-EGBB-4-3

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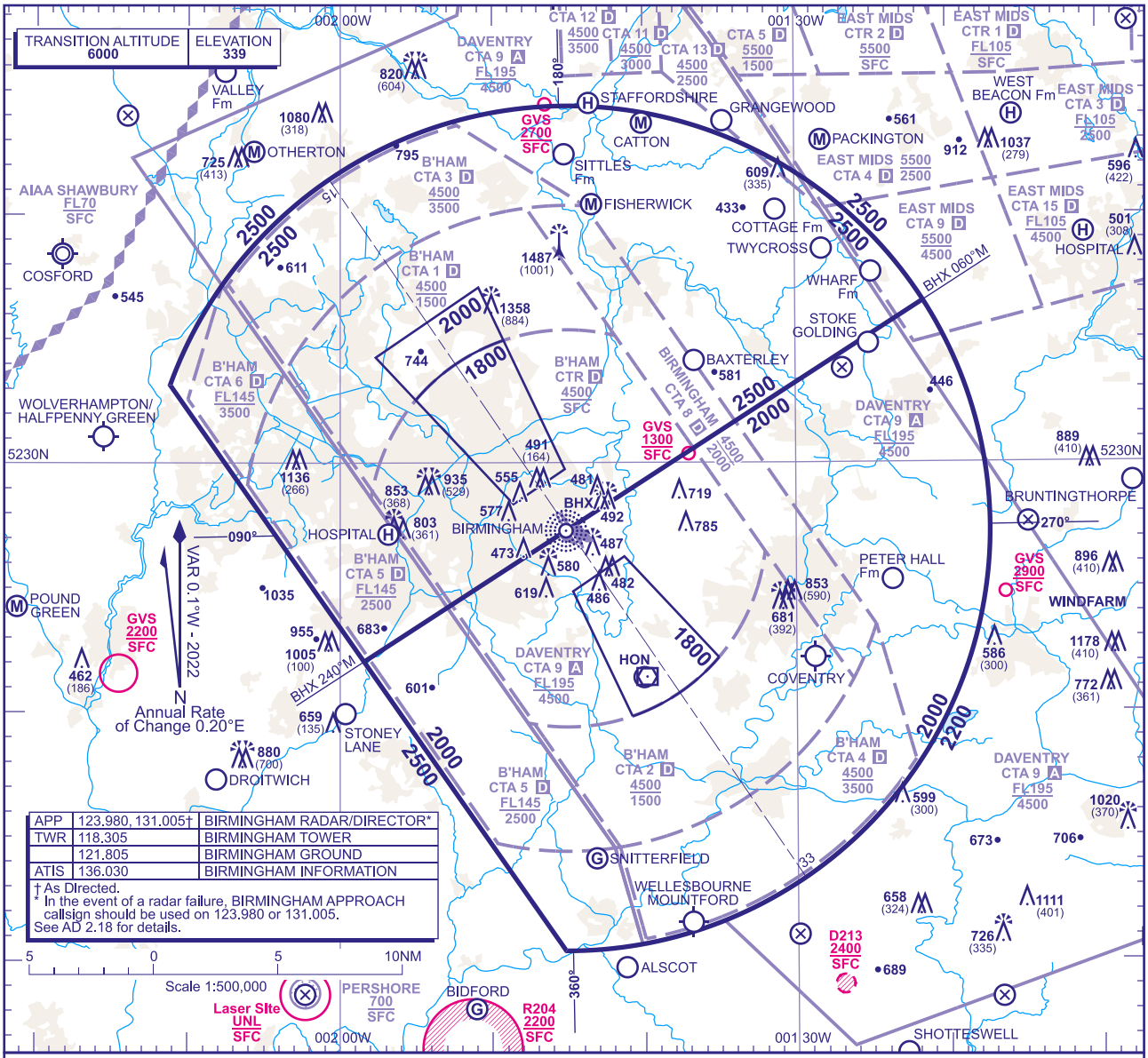
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1487
HEIGHTS IN FEET AGL (1001)

BIRMINGHAM



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2000** in the sector defined by the lateral limits; 522201N 0015826W - 523630N 0012133W thence clockwise by an arc of a circle radius 17NM centred on 522722N 0014502W to 521023N 0014512W - 522201N 0015826W.

b) **2500** in the sector defined by the lateral limits; 522201N 0015826W - 523630N 0012133W thence anti-clockwise by an arc of a circle radius 17NM centred on 522722N 0014502W to 523308N 0021112W - 522201N 0015826W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) BHX**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) BHX**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of BHX NDB.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HELI SITES REVISED.

AERO INFO DATE 23 JAN 25

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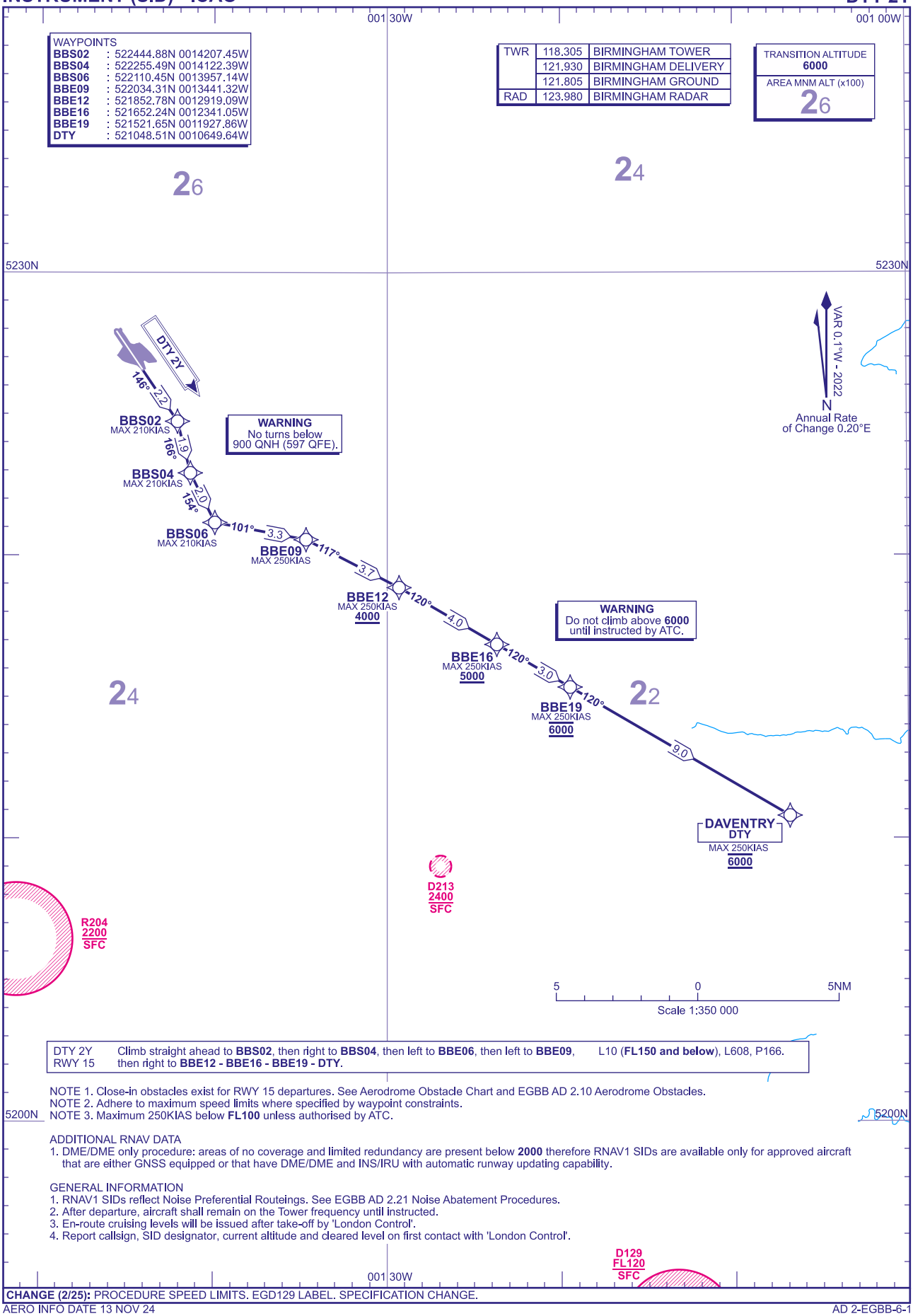
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM
RWY 15
DTY 2Y



DTY 2Y / RWY 15: Climb straight ahead to **BBS02**, then right to **BBS04**, then left to **BBE06**, then left to **BBE09**, then right to **BBE12 - BBE16 - BBE19 - DTY**. L10 (**FL150 and below**), L608, P166.

NOTE 1. Close-in obstacles exist for RWY 15 departures. See Aerodrome Obstacle Chart and EGBB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: areas of no coverage and limited redundancy are present below **2000** therefore RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGBB AD 2.21 Noise Abatement Procedures.
2. After departure, aircraft shall remain on the Tower frequency until instructed.
3. En-route cruising levels will be issued after take-off by 'London Control'.
4. Report callsign, SID designator, current altitude and cleared level on first contact with 'London Control'.

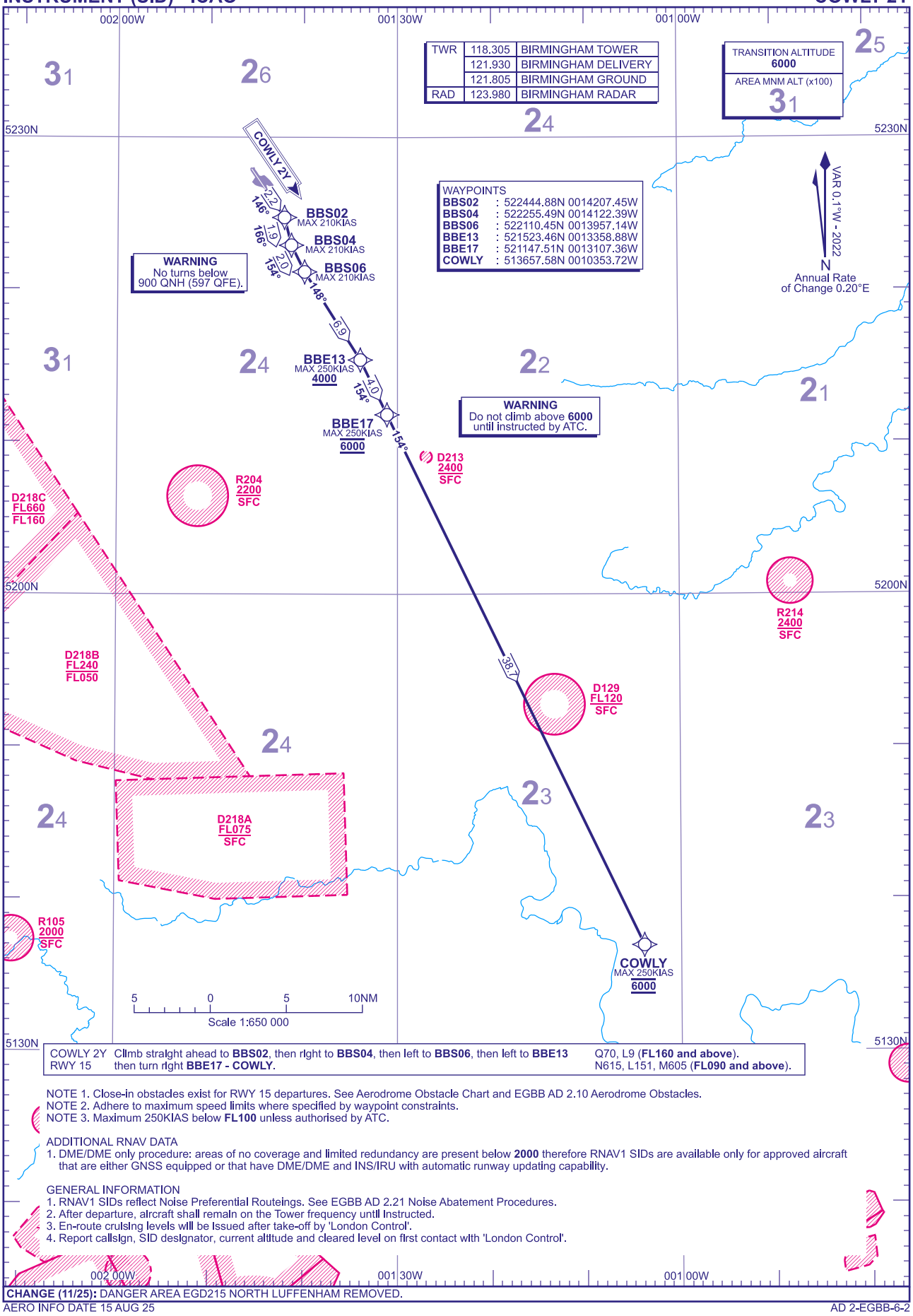
CHANGE (2/25): PROCEDURE SPEED LIMITS. EGD129 LABEL. SPECIFICATION CHANGE.

AERO INFO DATE 13 NOV 24
AD 2-EGBB-6-1

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

BIRMINGHAM
RWY 15
COWLY 2Y



COWLY 2Y RWY 15 — Climb straight ahead to **BBS02**, then right to **BBS04**, then left to **BBS06**, then left to **BBE13** then turn right **BBE17 - COWLY**.

Q70, L9 (**FL160 and above**).
N615, L151, M605 (**FL090 and above**).

NOTE 1. Close-in obstacles exist for RWY 15 departures. See Aerodrome Obstacle Chart and EGBB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: areas of no coverage and limited redundancy are present below **2000** therefore RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGBB AD 2.21 Noise Abatement Procedures.
2. After departure, aircraft shall remain on the Tower frequency until instructed.
3. En-route cruising levels will be issued after take-off by 'London Control'.
4. Report callsign, SID designator, current altitude and cleared level on first contact with 'London Control'.

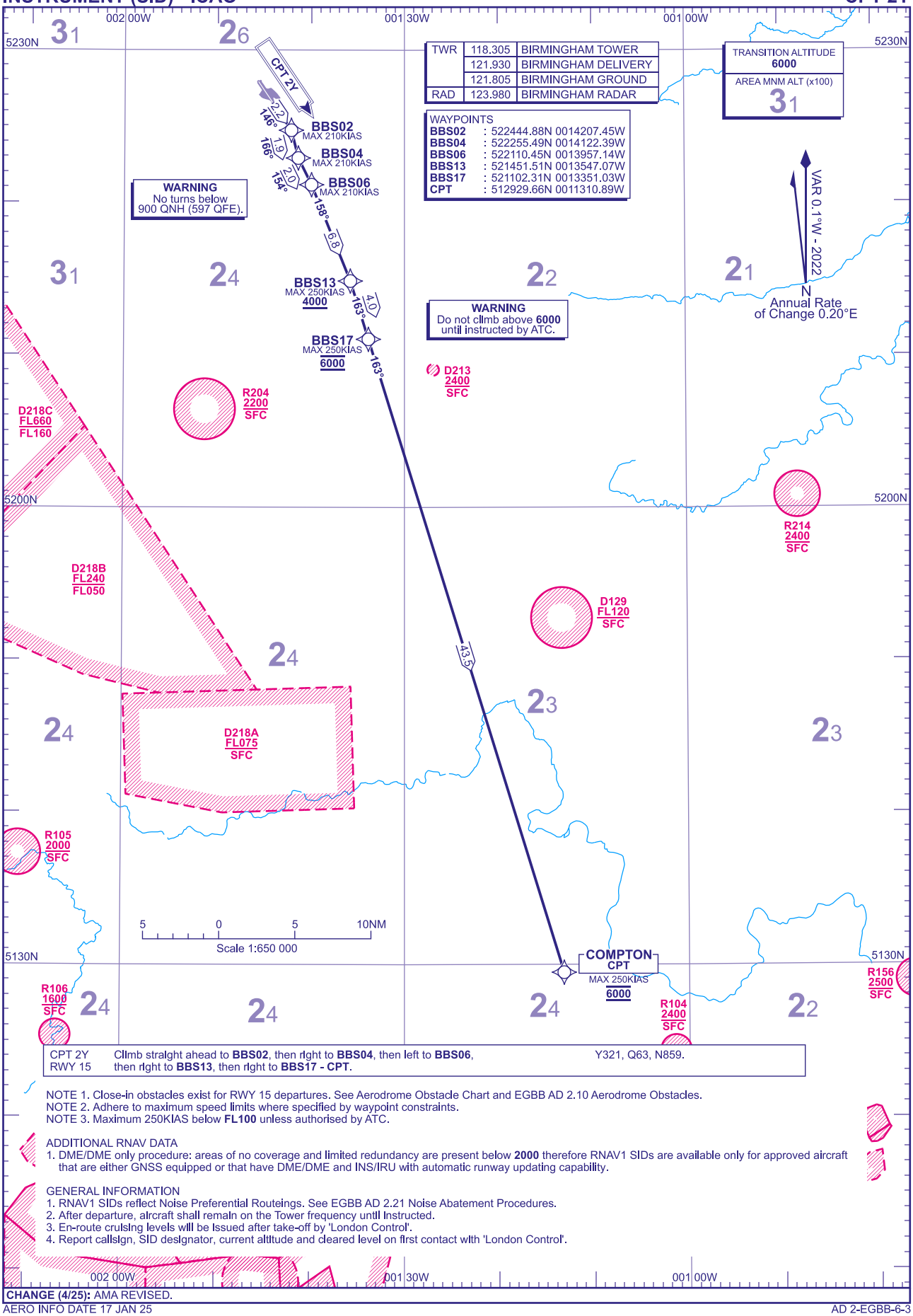
CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED.

AERO INFO DATE 15 AUG 25

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM
RWY 15
CPT 2Y



CPT 2Y RWY 15	Climb straight ahead to **BBS02**, then right to **BBS04**, then left to **BBS06**, then right to **BBS13**, then right to **BBS17 - CPT**.	Y321, Q63, N859.

NOTE 1. Close-in obstacles exist for RWY 15 departures. See Aerodrome Obstacle Chart and EGBB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: areas of no coverage and limited redundancy are present below **2000** therefore RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGBB AD 2.21 Noise Abatement Procedures.
2. After departure, aircraft shall remain on the Tower frequency until instructed.
3. En-route cruising levels will be issued after take-off by 'London Control'.
4. Report callsign, SID designator, current altitude and cleared level on first contact with 'London Control'.

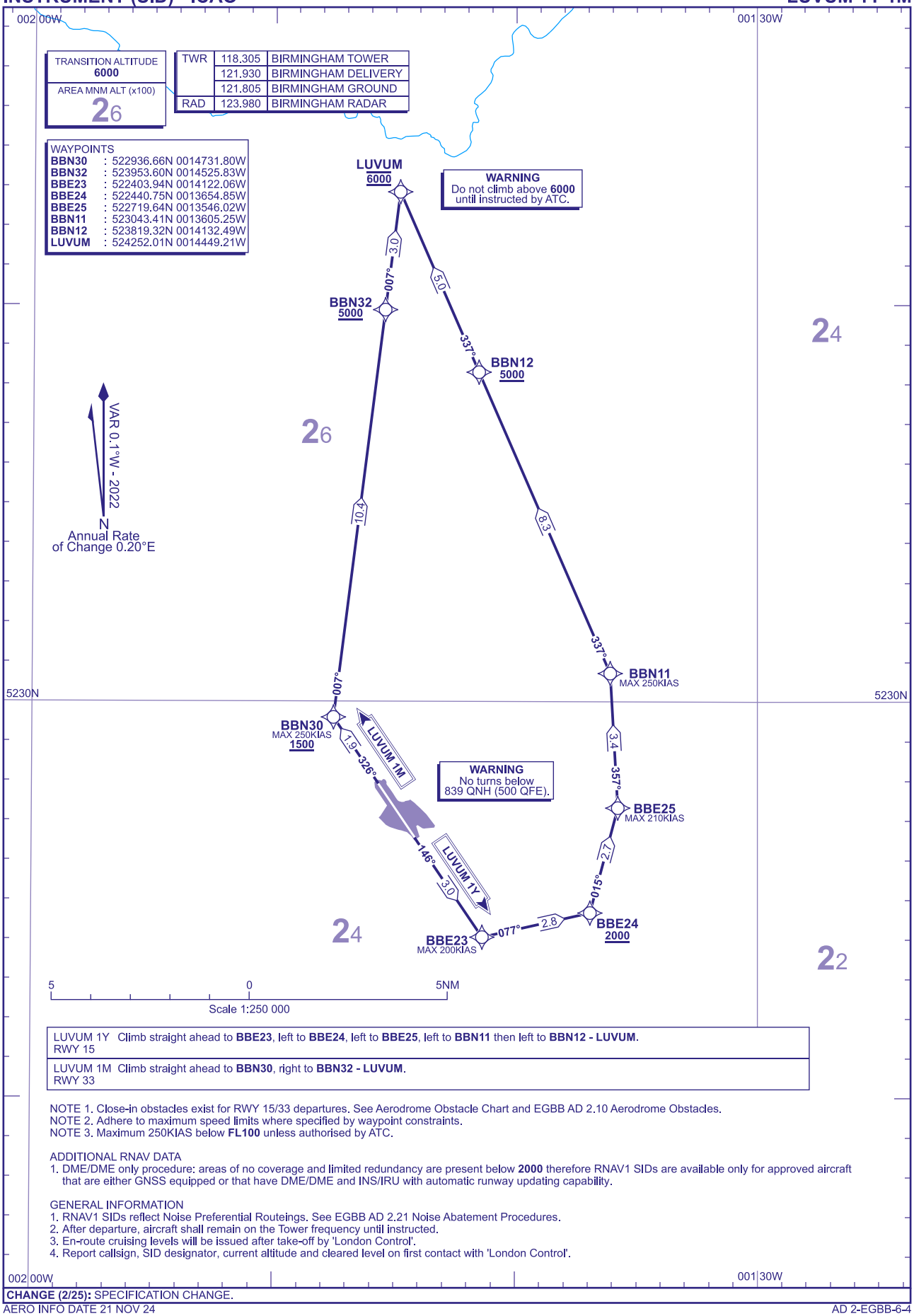
CHANGE (4/25): AMA REVISED.
AERO INFO DATE 17 JAN 25
AD 2-EGBB-6-3

I

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM
RWY 15/33
LUVUM 1Y 1M



LUVUM 1Y Climb straight ahead to **BBE23**, left to **BBE24**, left to **BBE25**, left to **BBN11** then left to **BBN12 - LUVUM**.
RWY 15

LUVUM 1M Climb straight ahead to **BBN30**, right to **BBN32 - LUVUM**.
RWY 33

NOTE 1. Close-in obstacles exist for RWY 15/33 departures. See Aerodrome Obstacle Chart and EGBB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: areas of no coverage and limited redundancy are present below **2000** therefore RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

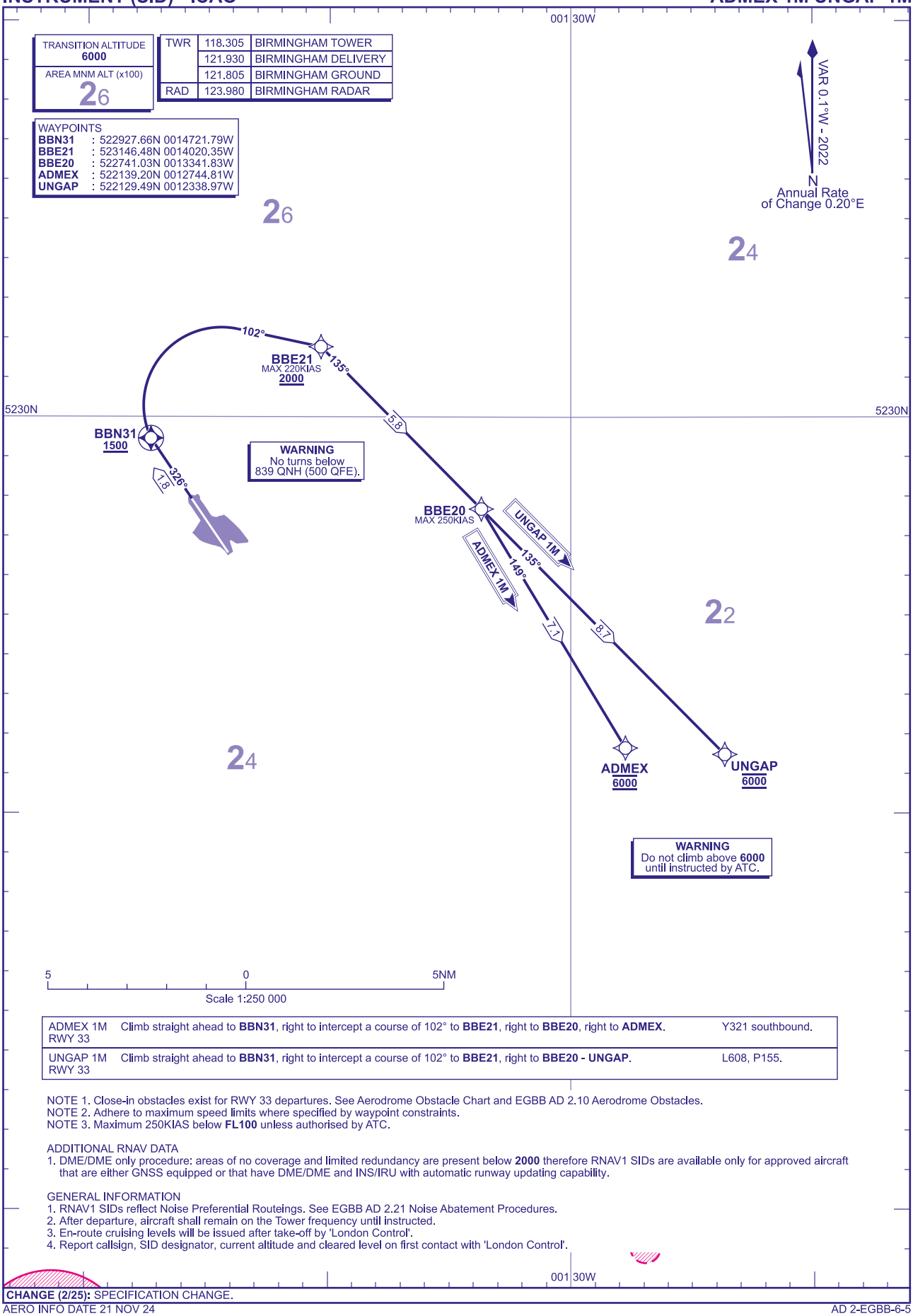
GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGBB AD 2.21 Noise Abatement Procedures.
2. After departure, aircraft shall remain on the Tower frequency until instructed.
3. En-route cruising levels will be issued after take-off by 'London Control'.
4. Report callsign, SID designator, current altitude and cleared level on first contact with 'London Control'.

CHANGE (2/25): SPECIFICATION CHANGE.
AERO INFO DATE 21 NOV 24 AD 2-EGBB-6-4

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM
RWY 33
ADMEX 1M UNGAP 1M



ADMEX 1M RWY 33	Climb straight ahead to **BBN31**, right to intercept a course of 102° to **BBE21**, right to **BBE20**, right to **ADMEX**.	Y321 southbound.
UNGAP 1M RWY 33	Climb straight ahead to **BBN31**, right to intercept a course of 102° to **BBE21**, right to **BBE20 - UNGAP**.	L608, P155.

NOTE 1. Close-in obstacles exist for RWY 33 departures. See Aerodrome Obstacle Chart and EGBB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: areas of no coverage and limited redundancy are present below **2000** therefore RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGBB AD 2.21 Noise Abatement Procedures.
2. After departure, aircraft shall remain on the Tower frequency until instructed.
3. En-route cruising levels will be issued after take-off by 'London Control'.
4. Report callsign, SID designator, current altitude and cleared level on first contact with 'London Control'.

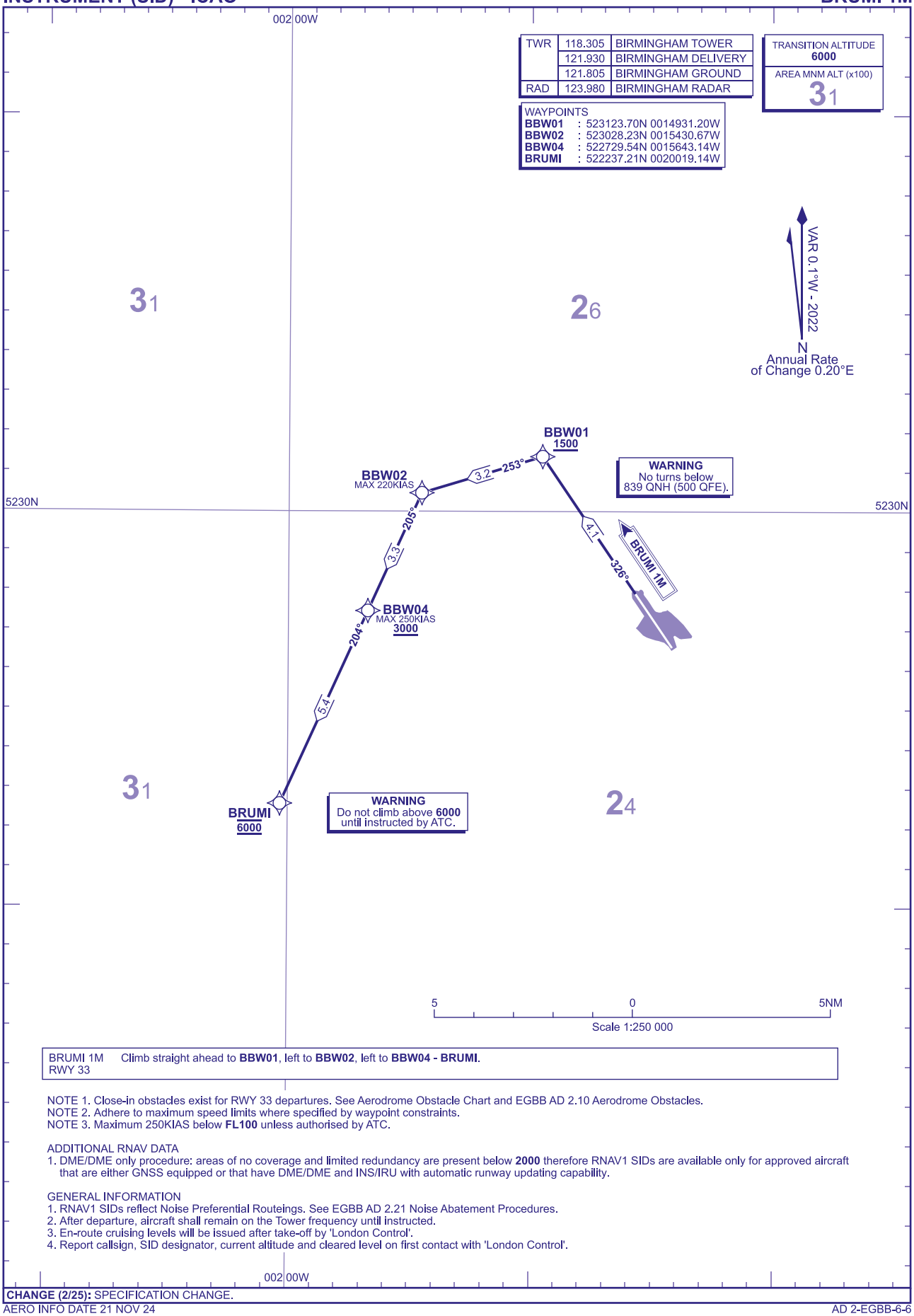
CHANGE (2/25): SPECIFICATION CHANGE.

AERO INFO DATE 21 NOV 24

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM
RWY 33
BRUMI 1M



BRUMI 1M RWY 33 — Climb straight ahead to **BBW01**, left to **BBW02**, left to **BBW04 - BRUMI**.

NOTE 1. Close-in obstacles exist for RWY 33 departures. See Aerodrome Obstacle Chart and EGBB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: areas of no coverage and limited redundancy are present below **2000** therefore RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGBB AD 2.21 Noise Abatement Procedures.
2. After departure, aircraft shall remain on the Tower frequency until instructed.
3. En-route cruising levels will be issued after take-off by 'London Control'.
4. Report callsign, SID designator, current altitude and cleared level on first contact with 'London Control'.

002 00W

CHANGE (2/25): SPECIFICATION CHANGE.

AERO INFO DATE 21 NOV 24

Standard Instrument Departure Coding Tables

BIRMINGHAM Runway 15 DTY 2Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DTY2Y	001	CA	-	-	-	146° (145.8°)	-0.1	-	-	+900	-210	RNAV1
DTY2Y	002	CF	BBS02	522444.88N 0014207.45W	N	146° (145.8°)	-0.1	2.2	RIGHT	-	-210	RNAV1
DTY2Y	003	TF	BBS04	522255.49N 0014122.39W	N	166° (165.9°)	-0.1	1.9	LEFT	-	-210	RNAV1
DTY2Y	004	TF	BBS06	522110.45N 0013957.14W	N	154° (153.5°)	-0.1	2.0	LEFT	-	-210	RNAV1
DTY2Y	005	TF	BBE09	522034.31N 0013441.32W	N	101° (100.6°)	-0.1	3.3	RIGHT	-	-250	RNAV1
DTY2Y	006	TF	BBE12	521852.78N 0012919.09W	N	117° (117.2°)	-0.1	3.7	RIGHT	+4000	-250	RNAV1
DTY2Y	007	TF	BBE16	521652.24N 0012341.05W	N	120° (120.1°)	-0.1	4.0	-	+5000	-250	RNAV1
DTY2Y	008	TF	BBE19	521521.65N 0011927.86W	N	120° (120.2°)	-0.1	3.0	-	6000	-250	RNAV1
DTY2Y	009	TF	DTY	521048.51N 0010649.64W	N	120° (120.3°)	-0.1	9.0	-	6000	-250	RNAV1

BIRMINGHAM Runway 15 COWLY 2Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
COWLY2Y	001	CA	-	-	-	146° (145.8°)	-0.1	-	-	+900	-210	RNAV1
COWLY2Y	002	CF	BBS02	522444.88N 0014207.45W	N	146° (145.8°)	-0.1	2.2	RIGHT	-	-210	RNAV1
COWLY2Y	003	TF	BBS04	522255.49N 0014122.39W	N	166° (165.9°)	-0.1	1.9	LEFT	-	-210	RNAV1
COWLY2Y	004	TF	BBS06	522110.45N 0013957.14W	N	154° (153.5°)	-0.1	2.0	LEFT	-	-210	RNAV1
COWLY2Y	005	TF	BBE13	521523.46N 0013358.88W	N	148° (147.6°)	-0.1	6.9	RIGHT	+4000	-250	RNAV1
COWLY2Y	006	TF	BBE17	521147.51N 0013107.36W	N	154° (154.0°)	-0.1	4.0	-	6000	-250	RNAV1
COWLY2Y	007	TF	COWLY	513657.58N 0010353.72W	N	154° (154.0°)	-0.1	38.7	-	6000	-250	RNAV1

CHANGE (2/25): SPECIFICATION CHANGE.
AERO INFO DATE 25 NOV 24

Standard Instrument Departure Coding Tables

BIRMINGHAM Runway 15 CPT2Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CPT2Y	001	CA	-	-	N	146° (145.8°)	-0.1	-	-	+900	-210	RNAV1
CPT2Y	002	CF	BBS02	522444.88N 0014207.45W	N	146° (145.8°)	-0.1	2.2	RIGHT	-	-210	RNAV1
CPT2Y	003	TF	BBS04	522255.49N 0014122.39W	N	166° (165.9°)	-0.1	1.9	LEFT	-	-210	RNAV1
CPT2Y	004	TF	BBS06	522110.45N 0013957.14W	N	154° (153.6°)	-0.1	2.0	RIGHT	-	-210	RNAV1
CPT2Y	005	TF	BBS13	521451.51N 0013547.07W	N	158° (157.9°)	-0.1	6.8	RIGHT	+4000	-250	RNAV1
CPT2Y	006	TF	BBS17	521102.31N 0013351.03W	N	163° (162.7°)	-0.1	4.0	-	6000	-250	RNAV1
CPT2Y	007	TF	CPT	512929.66N 0011310.89W	N	163° (162.7°)	-0.1	43.5	-	6000	-250	RNAV1

BIRMINGHAM Runway 15 LUVUM 1Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LUVUM1Y	001	CA	-	-	-	146° (145.8°)	-0.1	-	-	+839	-	RNAV1
LUVUM1Y	002	CF	BBE23	522403.94N 0014122.06W	N	146° (145.8°)	-0.1	3.0	LEFT	-	-200	RNAV1
LUVUM1Y	003	TF	BBE24	522440.75N 0013654.85W	N	077° (077.3°)	-0.1	2.8	LEFT	+2000	-	RNAV1
LUVUM1Y	004	TF	BBE25	522719.64N 0013546.02W	N	015° (014.8°)	-0.1	2.7	LEFT	-	-210	RNAV1
LUVUM1Y	005	TF	BBN11	523043.41N 0013605.25W	N	357° (356.7°)	-0.1	3.4	LEFT	-	-250	RNAV1
LUVUM1Y	006	TF	BBN12	523819.32N 0014132.49W	N	337° (336.4°)	-0.1	8.3	-	+5000	-	RNAV1
LUVUM1Y	007	TF	LUVUM	524252.01N 0014449.21W	N	336° (336.4°)	-0.1	5.0	-	6000	-	RNAV1

CHANGE (2/25): SPECIFICATION CHANGE.
AERO INFO DATE 05 DEC 24

Standard Instrument Departure Coding Tables

BIRMINGHAM Runway 33 LUVUM 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LUVUM1M	001	CA	-	-	-	326° (325.8°)	-0.1	-	-	+839	-	RNAV1
LUVUM1M	002	CF	BBN30	522936.66N 0014731.80W	N	326° (325.8°)	-0.1	1.9	RIGHT	+1500	-250	RNAV1
LUVUM1M	003	TF	BBN32	523953.60N 0014525.83W	N	007° (007.1°)	-0.1	10.4	-	+5000	-	RNAV1
LUVUM1M	004	TF	LUVUM	524252.01N 0014449.21W	N	007° (007.1°)	-0.1	3.0	-	6000	-	RNAV1

BIRMINGHAM Runway 33 ADMEX 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ADMEX1M	001	CA	-	-	-	326° (325.8°)	-0.1	-	-	+839	-	RNAV1
ADMEX1M	002	CF	BBN31	522927.66N 0014721.79W	Y	326° (325.8°)	-0.1	1.8	RIGHT	+1500	-	RNAV1
ADMEX1M	003	CF	BBE21	523146.48N 0014020.35W	N	102° (102.0°)	-0.1	-	RIGHT	+2000	-220	RNAV1
ADMEX1M	004	TF	BBE20	522741.03N 0013341.83W	N	135° (135.2°)	-0.1	5.8	RIGHT	-	-250	RNAV1
ADMEX1M	005	TF	ADMEX	522139.20N 0012744.81W	N	149° (148.9°)	-0.1	7.1	-	6000	-	RNAV1

BIRMINGHAM Runway 33 UNGAP 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
UNGAP1M	001	CA	-	-	-	326° (325.8°)	-0.1	-	-	+839	-	RNAV1
UNGAP1M	002	CF	BBN31	522927.66N 0014721.79W	Y	326° (325.8°)	-0.1	1.8	RIGHT	+1500	-	RNAV1
UNGAP1M	003	CF	BBE21	523146.48N 0014020.35W	N	102° (102.0°)	-0.1	-	RIGHT	+2000	-220	RNAV1
UNGAP1M	004	TF	BBE20	522741.03N 0013341.83W	N	135° (135.2°)	-0.1	5.8	-	-	-250	RNAV1
UNGAP1M	005	TF	UNGAP	522129.49N 0012338.97W	N	135° (135.2°)	-0.1	8.7	-	6000	-	RNAV1

BIRMINGHAM Runway 33 BRUMI 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BRUMI1M	001	CA	-	-	-	326° (325.8°)	-0.1	-	-	+839	-	RNAV1
BRUMI1M	002	CF	BBW01	523123.70N 0014931.20W	N	326° (325.8°)	-0.1	4.1	LEFT	+1500	-	RNAV1
BRUMI1M	003	TF	BBW02	523028.23N 0015430.67W	N	253° (253.1°)	-0.1	3.2	LEFT	-	-220	RNAV1
BRUMI1M	004	TF	BBW04	522729.54N 0015643.14W	N	204° (204.4°)	-0.1	3.3	-	+3000	-250	RNAV1
BRUMI1M	005	TF	BRUMI	522237.21N 0020019.14W	N	204° (204.3°)	-0.1	5.4	-	6000	-	RNAV1

CHANGE (2/25): SPECIFICATION CHANGE.
AERO INFO DATE 25 NOV 24

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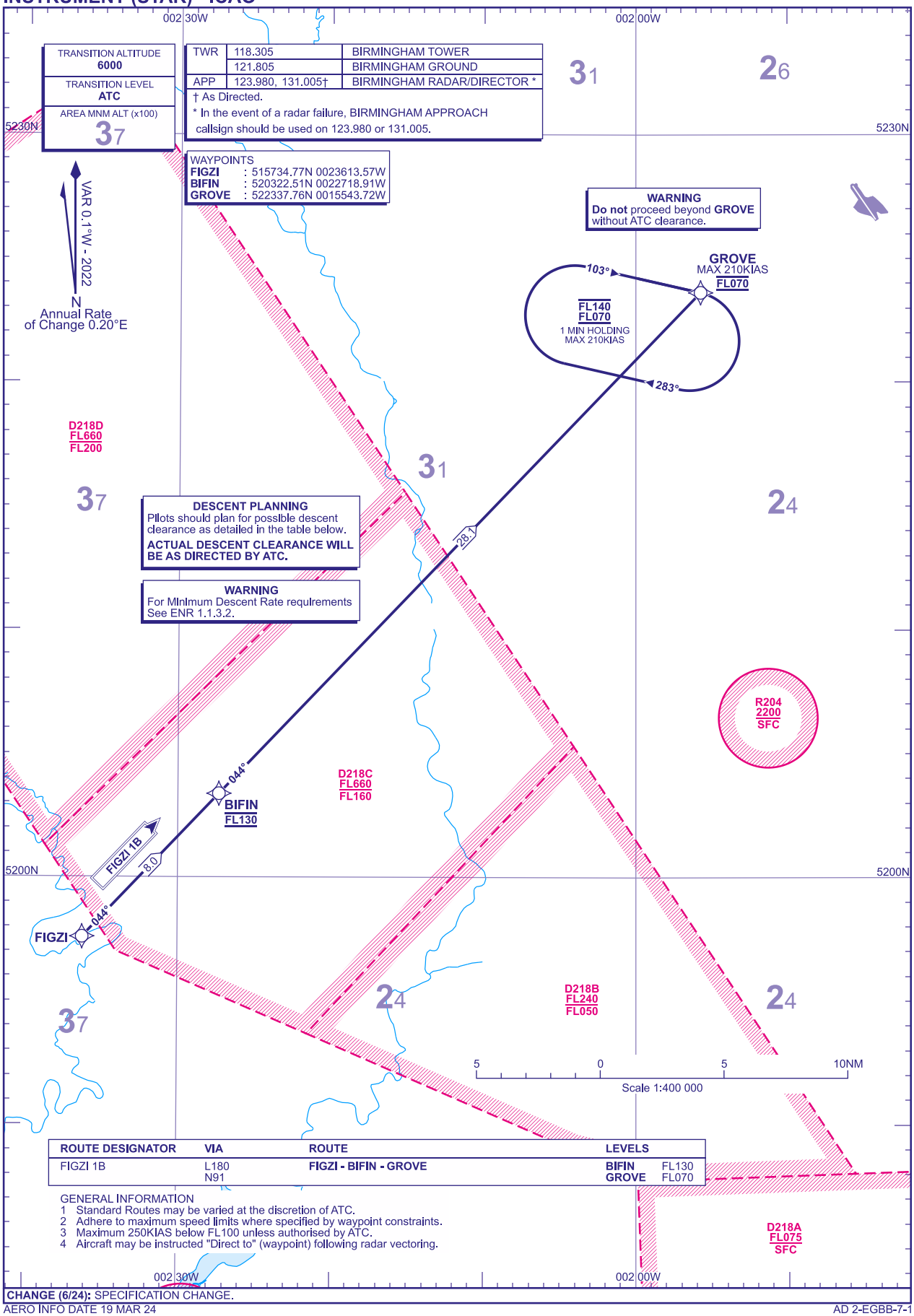
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM FIGZI 1B



CHANGE (6/24): SPECIFICATION CHANGE.

AERO INFO DATE 19 MAR 24

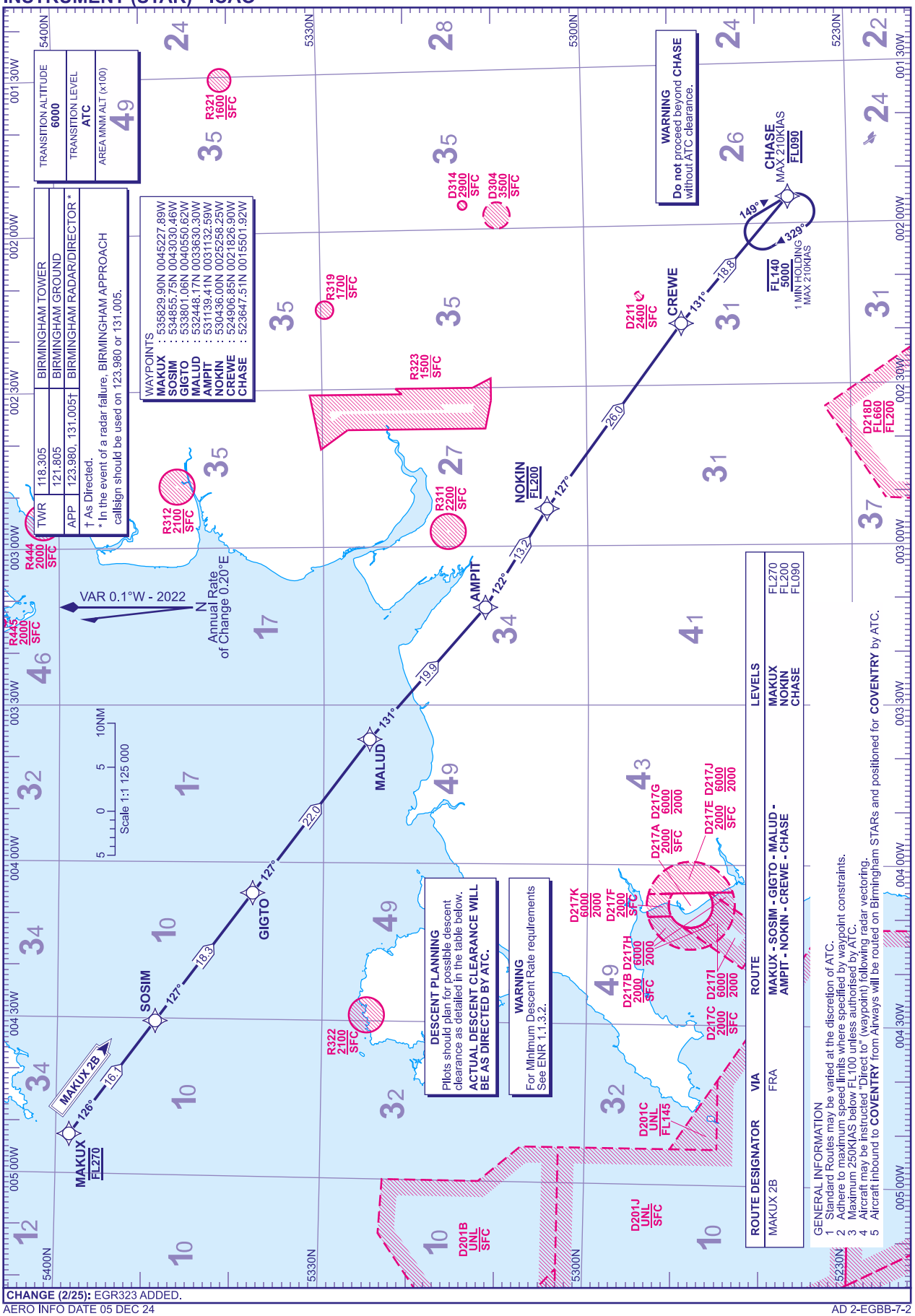
AD 2-EGBB-7-1

I

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM MAKUX 2B



CHANGE (2/25): EGR323 ADDED.

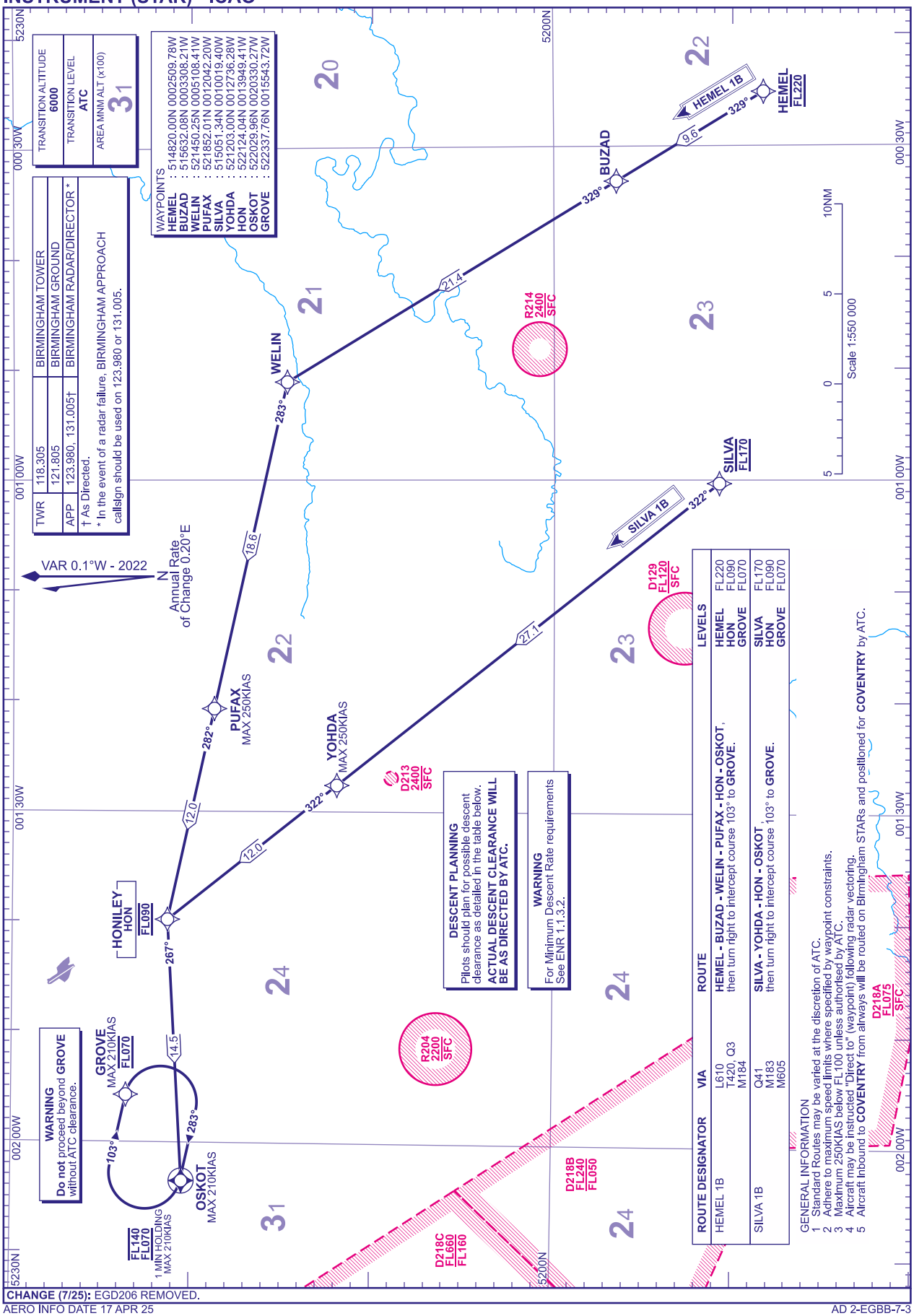
AERO INFO DATE 05 DEC 24

AD 2-EGBB-7-2

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

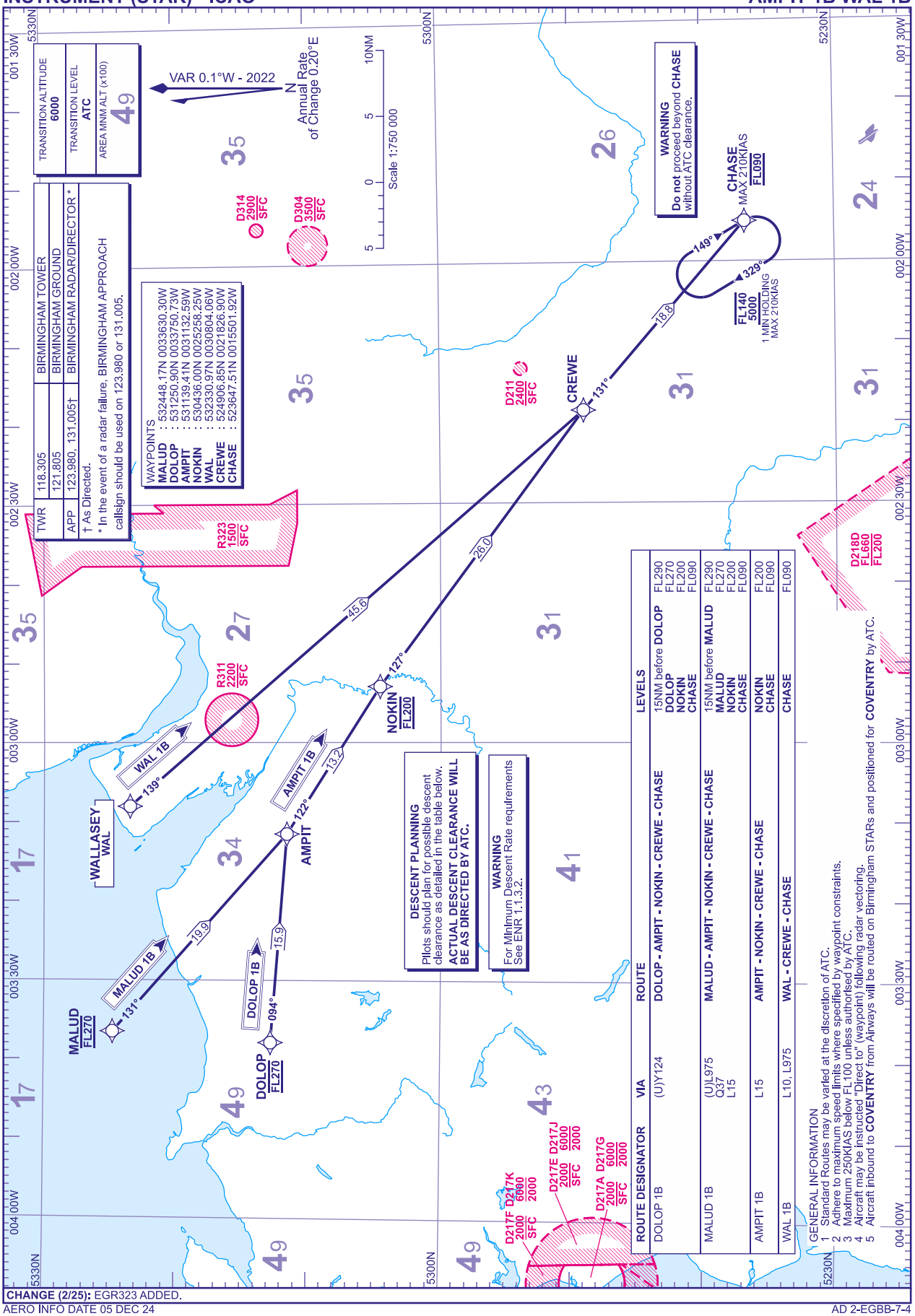
BIRMINGHAM HEMEL 1B SILVA 1B



RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM DOLOP 1B MALUD 1B AMPIT 1B WAL 1B



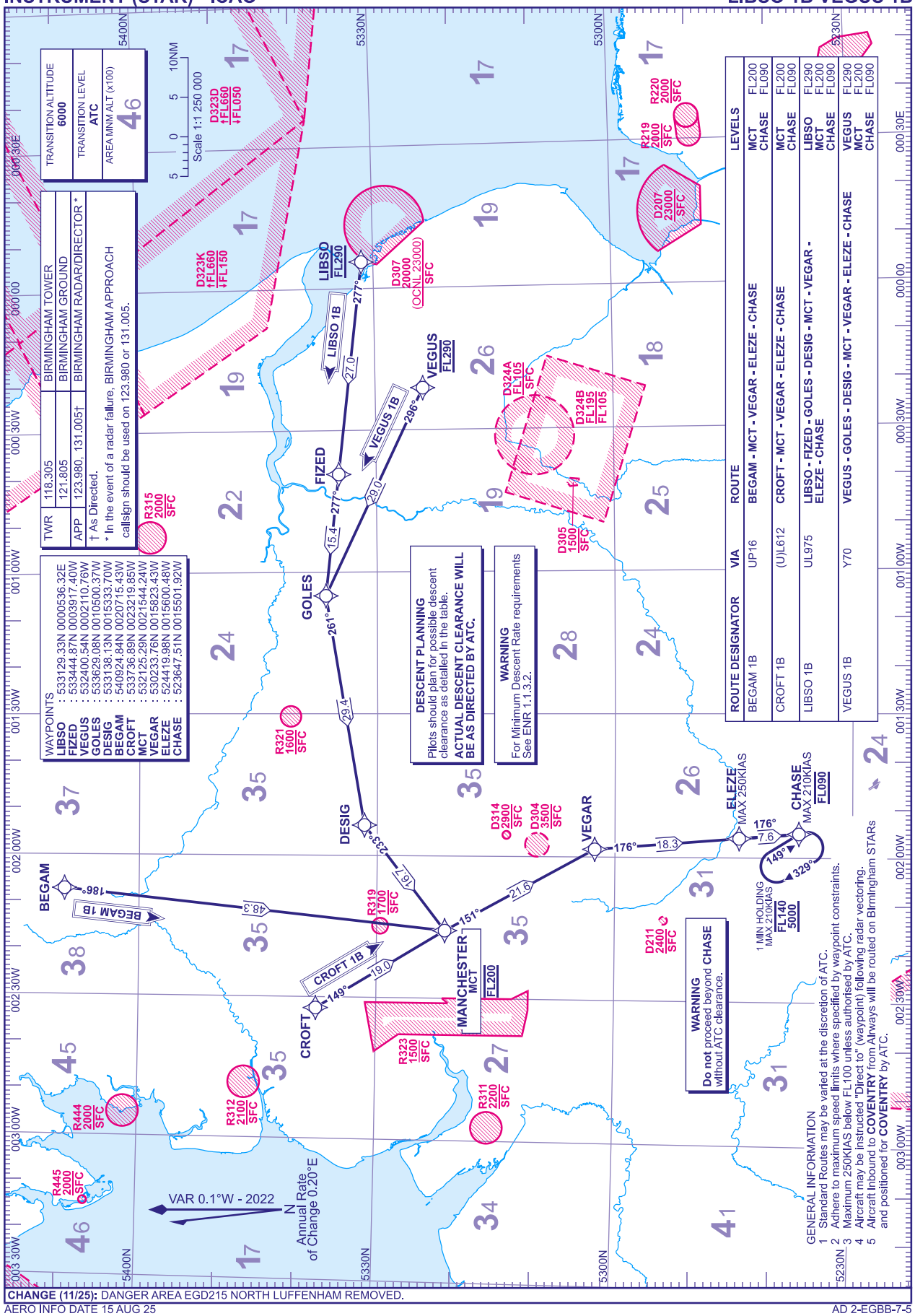
CHANGE (2/25): EGR323 ADDED.
AERO INFO DATE 05 DEC 24
AD 2-EGBB-7-4

I

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM
BEGAM 1B CROFT 1B
LIBSO 1B VEGUS 1B



CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED.

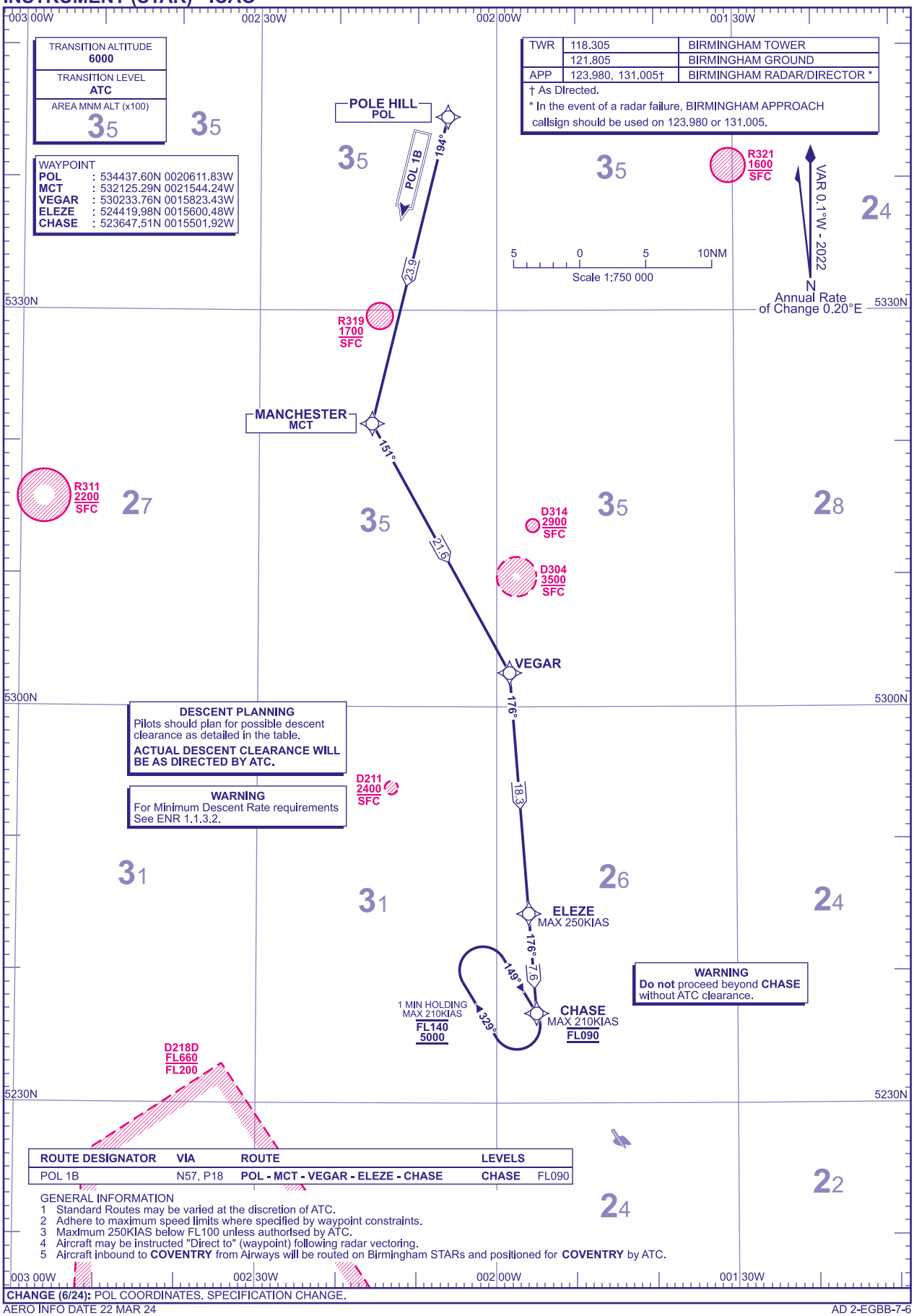
AERO INFO DATE 15 AUG 25

AD 2-EGBB-7-5

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BIRMINGHAM
POL 1B



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
POL 1B	N57, P18	POL - MCT - VEGAR - ELEZE - CHASE	CHASE FL090

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 Aircraft inbound to **COVENTRY** from Airways will be routed on Birmingham STARs and positioned for **COVENTRY** by ATC.

CHANGE (6/24): POL COORDINATES. SPECIFICATION CHANGE.

AERO INFO DATE 22 MAR 24

AD 2-EGBB-7-6

Standard Instrument Arrival Coding Tables

BIRMINGHAM FIGZI 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FIGZI1B	001	IF	FIGZI	515734.77N 0023613.57W	N	-	-	-	-	-	-	RNAV1
FIGZI1B	002	TF	BIFIN	520322.51N 0022718.91W	N	044° (043.4°)	-0.1	8.0	-	FL130	-	RNAV1
FIGZI1B	003	TF	GROVE	522337.76N 0015543.72W	N	044° (043.6°)	-0.1	28.1	-	FL070	-210	RNAV1

BIRMINGHAM MAKUX 2B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MAKUX2B	001	IF	MAKUX	535829.90N 0045227.89W	N	-	-	-	-	FL270	-	RNAV1
MAKUX2B	002	TF	SOSIM	534855.75N 0043030.46W	N	126° (126.3°)	-0.1	16.1	-	-	-	RNAV1
MAKUX2B	003	TF	GIGTO	533801.06N 0040550.62W	N	127° (126.6°)	-0.1	18.3	-	-	-	RNAV1
MAKUX2B	004	TF	MALUD	532448.17N 0033630.30W	N	127° (126.9°)	-0.1	22.0	RIGHT	-	-	RNAV1
MAKUX2B	005	TF	AMPIT	531139.41N 0031132.59W	N	131° (131.2°)	-0.1	19.9	LEFT	-	-	RNAV1
MAKUX2B	006	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	-0.1	13.2	RIGHT	FL200	-	RNAV1
MAKUX2B	007	TF	CREWE	524906.85N 0021826.90W	N	127° (126.4°)	-0.1	26.0	RIGHT	-	-	RNAV1
MAKUX2B	008	TF	CHASE	523647.51N 0015501.92W	N	131° (130.8°)	-0.1	18.8	-	FL090	-210	RNAV1

BIRMINGHAM HEMEL 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HEMEL1B	001	IF	HEMEL	514820.00N 0002509.78W	N	-	-	-	-	FL220	-	RNAV5
HEMEL1B	002	TF	BUZAD	515632.08N 0003308.21W	N	329° (329.0°)	-0.1	9.6	-	-	-	RNAV5
HEMEL1B	003	TF	WELIN	521450.25N 0005108.41W	N	329° (328.9°)	-0.1	21.4	LEFT	-	-	RNAV5
HEMEL1B	004	TF	PUFAX	521852.01N 0012042.20W	N	283° (282.7°)	-0.1	18.6	-	-	-250	RNAV5
HEMEL1B	005	TF	HON	522124.04N 0013949.41W	N	282° (282.3°)	-0.1	12.0	LEFT	FL090	-	RNAV5
HEMEL1B	006	TF	OSKOT	522029.96N 0020330.27W	Y	267° (266.6°)	-0.1	14.5	RIGHT	-	-210	RNAV5
HEMEL1B	007	CF	GROVE	522337.76N 0015543.72W	N	103° (103.0°)	-0.1	-	-	FL070	-210	RNAV5

BIRMINGHAM SILVA 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SILVA1B	001	IF	SILVA	515051.34N 0010019.40W	N	-	-	-	-	FL170	-	RNAV5
SILVA1B	002	TF	YOHDA	521203.00N 0012736.28W	N	322° (321.7°)	-0.1	27.1	-	-	-250	RNAV5
SILVA1B	003	TF	HON	522124.04N 0013949.41W	N	322° (321.4°)	-0.1	12.0	LEFT	FL090	-	RNAV5
SILVA1B	004	TF	OSKOT	522029.96N 0020330.27W	Y	267° (266.6°)	-0.1	14.6	RIGHT	-	-210	RNAV5
SILVA1B	005	CF	GROVE	522337.76N 0015543.72W	N	103° (103.0°)	-0.1	-	-	FL070	-210	RNAV5

CHANGE (6/24): SPECIFICATION CHANGE.
AERO INFO DATE 22 MAR 24

Standard Instrument Arrival Coding Tables

BIRMINGHAM DOLOP 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DOLOP1B	001	IF	DOLOP	531250.90N 0033750.73W	N	-	-	-	-	FL270	-	RNAV5
DOLOP1B	002	TF	AMPIT	531139.41N 0031132.59W	N	094° (094.1°)	-0.1	15.9	RIGHT	-	-	RNAV5
DOLOP1B	003	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	-0.1	13.2	RIGHT	FL200	-	RNAV5
DOLOP1B	004	TF	CREWE	524906.85N 0021826.90W	N	127° (126.4°)	-0.1	26.0	RIGHT	-	-	RNAV5
DOLOP1B	005	TF	CHASE	523647.51N 0015501.92W	N	131° (130.8°)	-0.1	18.8	-	FL090	-210	RNAV5

BIRMINGHAM MALUD 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MALUD1B	001	IF	MALUD	532448.17N 0033630.30W	N	-	-	-	-	FL270	-	RNAV5
MALUD1B	002	TF	AMPIT	531139.41N 0031132.59W	N	131° (131.2°)	-0.1	19.9	LEFT	-	-	RNAV5
MALUD1B	003	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	-0.1	13.2	RIGHT	FL200	-	RNAV5
MALUD1B	004	TF	CREWE	524906.85N 0021826.90W	N	127° (126.4°)	-0.1	26.0	RIGHT	-	-	RNAV5
MALUD1B	005	TF	CHASE	523647.51N 0015501.92W	N	131° (130.8°)	-0.1	18.8	-	FL090	-210	RNAV5

BIRMINGHAM AMPIT 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AMPIT1B	001	IF	AMPIT	531139.41N 0031132.59W	N	-	-	-	-	-	-	RNAV5
AMPIT1B	002	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	-0.1	13.2	RIGHT	FL200	-	RNAV5
AMPIT1B	003	TF	CREWE	524906.85N 0021826.90W	N	127° (126.4°)	-0.1	26.0	RIGHT	-	-	RNAV5
AMPIT1B	004	TF	CHASE	523647.51N 0015501.92W	N	131° (130.8°)	-0.1	18.8	-	FL090	-210	RNAV5

BIRMINGHAM WAL 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WAL1B	001	IF	WAL	532330.97N 0030804.06W	N	-	-	-	-	-	-	RNAV5
WAL1B	002	TF	CREWE	524906.85N 0021826.90W	N	139° (138.7°)	-0.1	45.6	LEFT	-	-	RNAV5
WAL1B	003	TF	CHASE	523647.51N 0015501.92W	N	131° (130.8°)	-0.1	18.8	-	FL090	-210	RNAV5

CHANGE (6/24): SPECIFICATION CHANGE.
AERO INFO DATE 25 MAR 24

Standard Instrument Arrival Coding Tables

BIRMINGHAM BEGAM 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BEGAM1B	001	IF	BEGAM	540924.84N 0020715.43W	N	-	-	-	-	-	-	RNAV1
BEGAM1B	002	TF	MCT	532125.29N 0021544.24W	N	186° (186.0°)	-0.1	48.3	LEFT	FL200	-	RNAV1
BEGAM1B	003	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	-0.1	21.6	RIGHT	-	-	RNAV1
BEGAM1B	004	TF	ELEZE	524419.98N 0015600.48W	N	176° (175.5°)	-0.1	18.3	-	-	-250	RNAV1
BEGAM1B	005	TF	CHASE	523647.51N 0015501.92W	N	176° (175.5°)	-0.1	7.6	-	FL090	-210	RNAV1

BIRMINGHAM CROFT 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CROFT1B	001	IF	CROFT	533736.89N 0023219.85W	N	-	-	-	-	-	-	RNAV1
CROFT1B	002	TF	MCT	532125.29N 0021544.24W	N	149° (148.5°)	-0.1	19.0	-	FL200	-	RNAV1
CROFT1B	003	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	-0.1	21.6	RIGHT	-	-	RNAV1
CROFT1B	004	TF	ELEZE	524419.98N 0015600.48W	N	176° (175.5°)	-0.1	18.3	-	-	-250	RNAV1
CROFT1B	005	TF	CHASE	523647.51N 0015501.92W	N	176° (175.5°)	-0.1	7.6	-	FL090	-210	RNAV1

BIRMINGHAM LIBSO 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LIBSO1B	001	IF	LIBSO	533129.33N 0000536.32E	N	-	-	-	-	FL290	-	RNAV1
LIBSO1B	002	TF	FIZED	533444.87N 0003917.40W	N	277° (277.3°)	-0.1	27.0	-	-	-	RNAV1
LIBSO1B	003	TF	GOLES	533629.08N 0010500.37W	N	277° (276.7°)	-0.1	15.4	LEFT	-	-	RNAV1
LIBSO1B	004	TF	DESIG	533138.13N 0015333.70W	N	261° (260.8°)	-0.1	29.4	LEFT	-	-	RNAV1
LIBSO1B	005	TF	MCT	532125.29N 0021544.24W	N	233° (232.5°)	-0.1	16.7	LEFT	FL200	-	RNAV1
LIBSO1B	006	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	-0.1	21.6	RIGHT	-	-	RNAV1
LIBSO1B	007	TF	ELEZE	524419.98N 0015600.48W	N	176° (175.5°)	-0.1	18.3	-	-	-250	RNAV1
LIBSO1B	008	TF	CHASE	523647.51N 0015501.92W	N	176° (175.5°)	-0.1	7.6	-	FL090	-210	RNAV1

CHANGE (6/24): SPECIFICATION CHANGE.
AERO INFO DATE 25 MAR 24

Standard Instrument Arrival Coding Tables

BIRMINGHAM VEGUS 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
VEGUS1B	001	IF	VEGUS	532400.54N 0002110.76W	N	-	-	-	-	FL290	-	RNAV1
VEGUS1B	002	TF	GOLES	533629.08N 0010500.37W	N	296° (295.8°)	-0.1	29.0	LEFT	-	-	RNAV1
VEGUS1B	003	TF	DESIG	533138.13N 0015333.70W	N	261° (260.8°)	-0.1	29.4	LEFT	-	-	RNAV1
VEGUS1B	004	TF	MCT	532125.29N 0021544.24W	N	233° (232.5°)	-0.1	16.7	LEFT	FL200	-	RNAV1
VEGUS1B	005	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	-0.1	21.6	RIGHT	-	-	RNAV1
VEGUS1B	006	TF	ELEZE	524419.98N 0015600.48W	N	176° (175.5°)	-0.1	18.3	-	-	-250	RNAV1
VEGUS1B	007	TF	CHASE	523647.51N 0015501.92W	N	176° (175.5°)	-0.1	7.6	-	FL090	-210	RNAV1

BIRMINGHAM POL 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
POL1B	001	IF	POL	534437.60N 0020611.83W	N	-	-	-	-	-	-	RNAV1
POL1B	002	TF	MCT	532125.29N 0021544.24W	N	194° (193.8°)	-0.1	23.9	LEFT	-	-	RNAV1
POL1B	003	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	-0.1	21.6	RIGHT	-	-	RNAV1
POL1B	004	TF	ELEZE	524419.98N 0015600.48W	N	176° (175.5°)	-0.1	18.3	-	-	-250	RNAV1
POL1B	005	TF	CHASE	523647.51N 0015501.92W	N	176° (175.5°)	-0.1	7.6	-	FL090	-210	RNAV1

CHANGE (6/24): POL COORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 25 MAR 24

RNAV Hold Coding Tables

BIRMINGHAM GROVE Hold

Designator	Sequence Number	Path Termination	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GROVE	-	-	GROVE	522337.76N 0015543.72W	Y	103° (102.8°)	-0.1	1 MIN	RIGHT	-FL140 +FL070	-210	RNAV1/ RNAV5

BIRMINGHAM CHASE Hold

Designator	Sequence Number	Path Termination	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CHASE	-	-	CHASE	523647.51N 0015501.92W	Y	149° (148.8°)	-0.1	1 MIN	RIGHT	-FL140 +5000	-210	RNAV1/ RNAV5

CHANGE (6/24): SPECIFICATION CHANGE.
AERO INFO DATE 25 MAR 24

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INSTRUMENT APPROACH CHART - ICAO

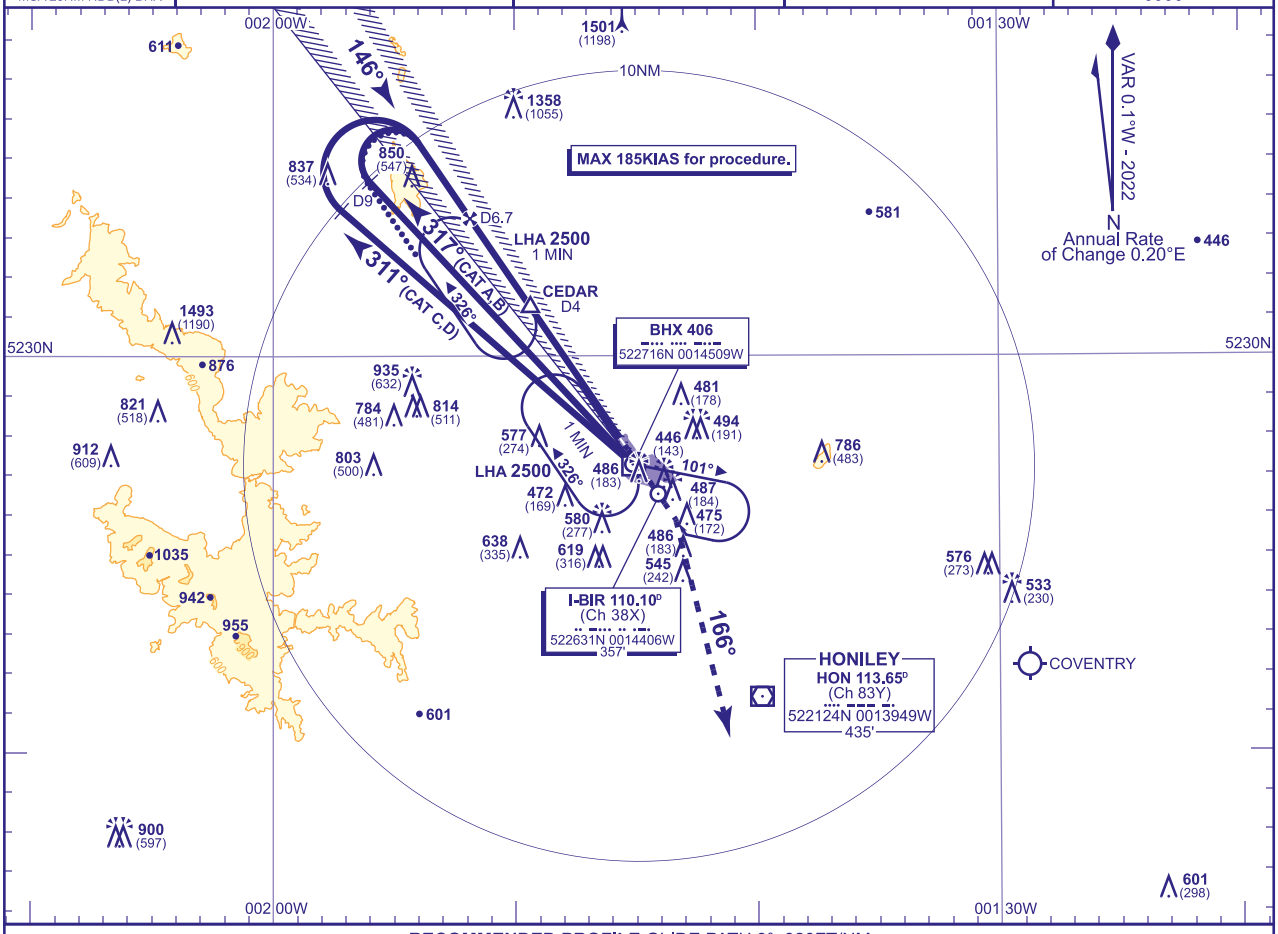
BIRMINGHAM
ILS/DME/NDB(L)
RWY 15
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BHX

APP 123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION	339
TWR 118.305	BIRMINGHAM TOWER	THR ELEVATION	303
121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION 1501 AMSL (1198) (ABOVE THR)	
ATIS 136.030	BIRMINGHAM INFORMATION		
* See Note 2		BEARINGS ARE MAGNETIC	

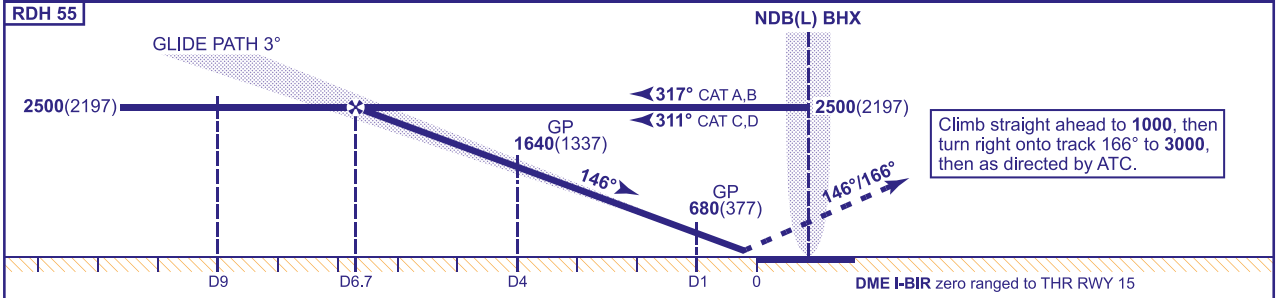
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-BIR	6	5	4	3	2
ALT(HGT)	**2280**(1977)	**1960**(1657)	**1640**(1337)	**1320**(1017)	**1000**(697)

RDH 55



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**466**(163)	**474**(171)	**485**(182)	**497**(194)
	CAT II	**385**(82)	**388**(85)	**397**(94)	**413**(110)
VM(C)OCA (OCH AAL)	Total Area	**810**(471)	**920**(581)	**1080**(741)	**1410**(1071)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE FROM EXTENDED CEDAR HOLD
Overhead CEDAR at **2500**. Extend the outbound leg of the CEDAR holding pattern to I-BIR DME 9, then turn right onto LOC. When established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME
Advise ATC and continue as for normal procedure. Radar ranges will be provided at 9NM outbound and at 4NM inbound.

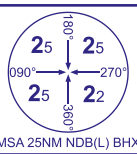
NOTE **1** Aircraft commencing from the NDB(L) BHX holding pattern make a 1NM procedure turn left at NDB(L) BHX to establish on appropriate outbound QDR.
2 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA(OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

AERO INFO DATE 22 APR 24
AD 2-EGBB 8-1

INSTRUMENT APPROACH CHART - ICAO

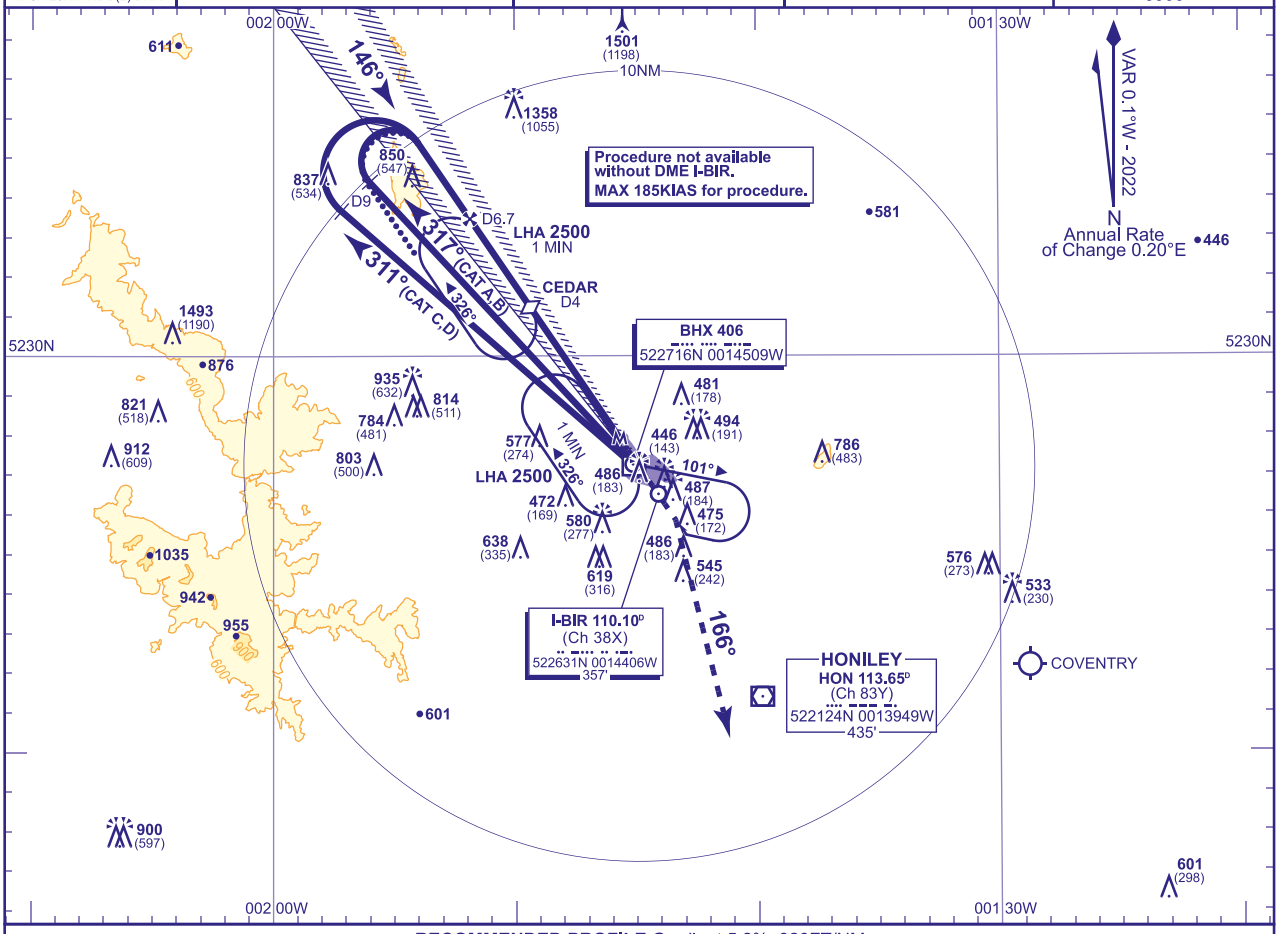
BIRMINGHAM LOC/DME/NDB(L) RWY 15
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BHX

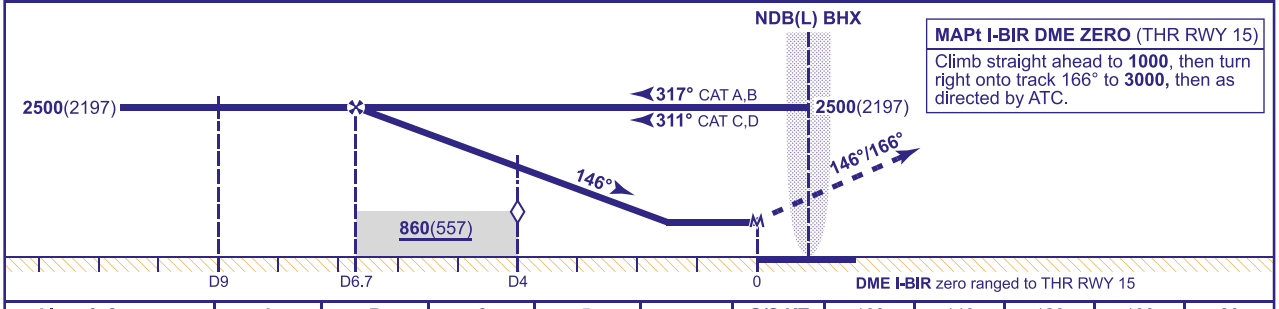
APP 123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION	339
TWR 118.305	BIRMINGHAM TOWER	THR ELEVATION	303
121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION	
ATIS 136.030	BIRMINGHAM INFORMATION	1501 AMSL (1198) (ABOVE THR)	
* See Note 2		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-BIR	6	5	4 (SDF)	3	2
ALT(HGT)	**2280**(1977)	**1960**(1657)	**1640**(1337)	**1320**(1017)	**1000**(697)



MAPt I-BIR DME ZERO (THR RWY 15)
Climb straight ahead to **1000**, then turn right onto track 166° to **3000**, then as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**750**(447)	**750**(447)	**750**(447)	**750**(447)
VM(C)OCA (OCH AAL)	Total Area	**810**(471)	**920**(581)	**1080**(741)	**1410**(1071)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE FROM EXTENDED CEDAR HOLD
Overhead CEDAR at **2500**. Extend the outbound leg of the CEDAR holding pattern to I-BIR DME 9, then turn right onto LOC. When established continue as for main procedure.

NOTE **1** Aircraft commencing from the NDB(L) BHX holding pattern make a 1NM procedure turn left at NDB(L) BHX to establish on appropriate outbound QDR.
2 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA (OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

AERO INFO DATE 22 APR 24
AD 2-EGBB 8-2

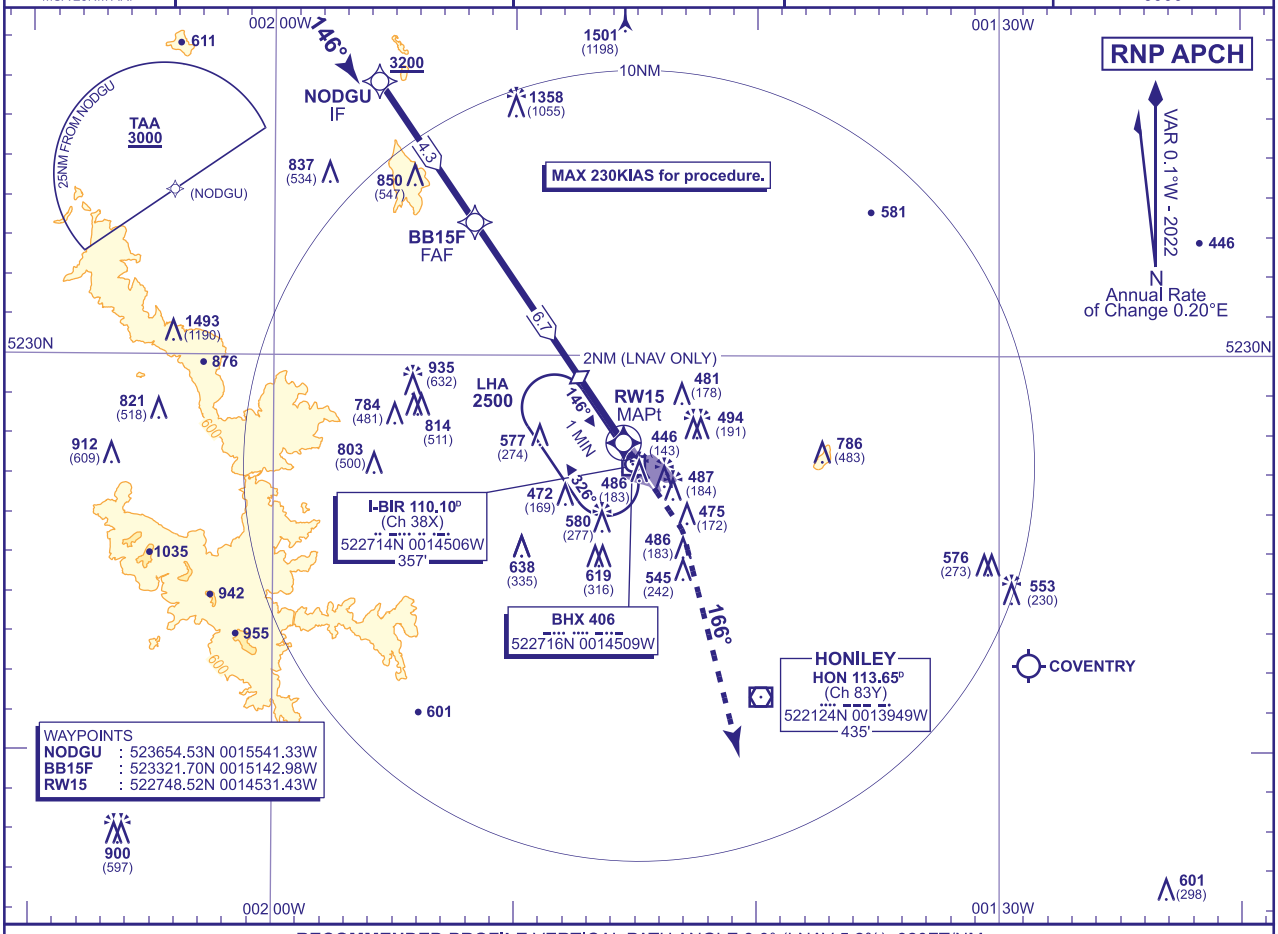
INSTRUMENT APPROACH CHART - ICAO

BIRMINGHAM
RNP
RWY 15
(ACFT CAT A,B,C,D)

APP 123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION	339
TWR 118.305	BIRMINGHAM TOWER	THR ELEVATION	303
121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION 1501 AMSL (1198) (ABOVE THR)	
ATIS 136.030	BIRMINGHAM INFORMATION		
* See Note 1		BEARINGS ARE MAGNETIC	

MIN TEMP -10C
TRANSITION ALTITUDE 6000

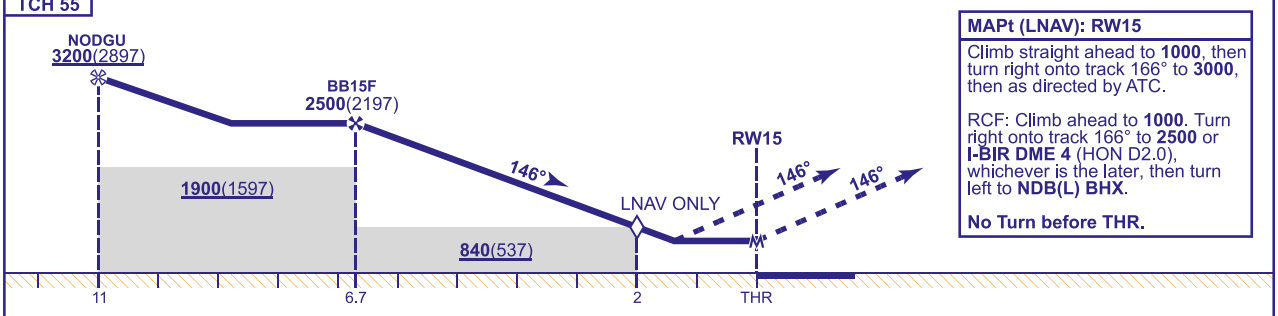
MSA 25NM ARP: 25 (090°–180°), 25 (180°–270°), 25 (270°–360°), 22 (360°–090°)



RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.0° (LNAV 5.2%), 320FT/NM

NM to RW15	6	5	4	3	2 (LNAV SDF)
ALT(HGT)	**2270**(1967)	**1960**(1657)	**1640**(1337)	**1320**(1017)	**1000**(697)

TCH 55



MAPt (LNAV): RW15

Climb straight ahead to **1000**, then turn right onto track 166° to **3000**, then as directed by ATC.

RCF: Climb ahead to **1000**. Turn right onto track 166° to **2500** or **I-BIR DME 4** (HON D2.0), whichever is the later, then turn left to **NDB(L) BHX**.

No Turn before THR.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**740**(437)	**740**(437)	**740**(437)	**740**(437)		FT/MIN	850	740	640	530	420
	LNAV	**740**(437)	**740**(437)	**740**(437)	**740**(437)							
VM(C)OCA (OCH AAL)	Total Area	**810**(471)	**920**(581)	**1080**(741)	**1410**(1071)							

NOTE 1 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA(OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

AERO INFO DATE 22 APR 24

INSTRUMENT APPROACH CHART - ICAO

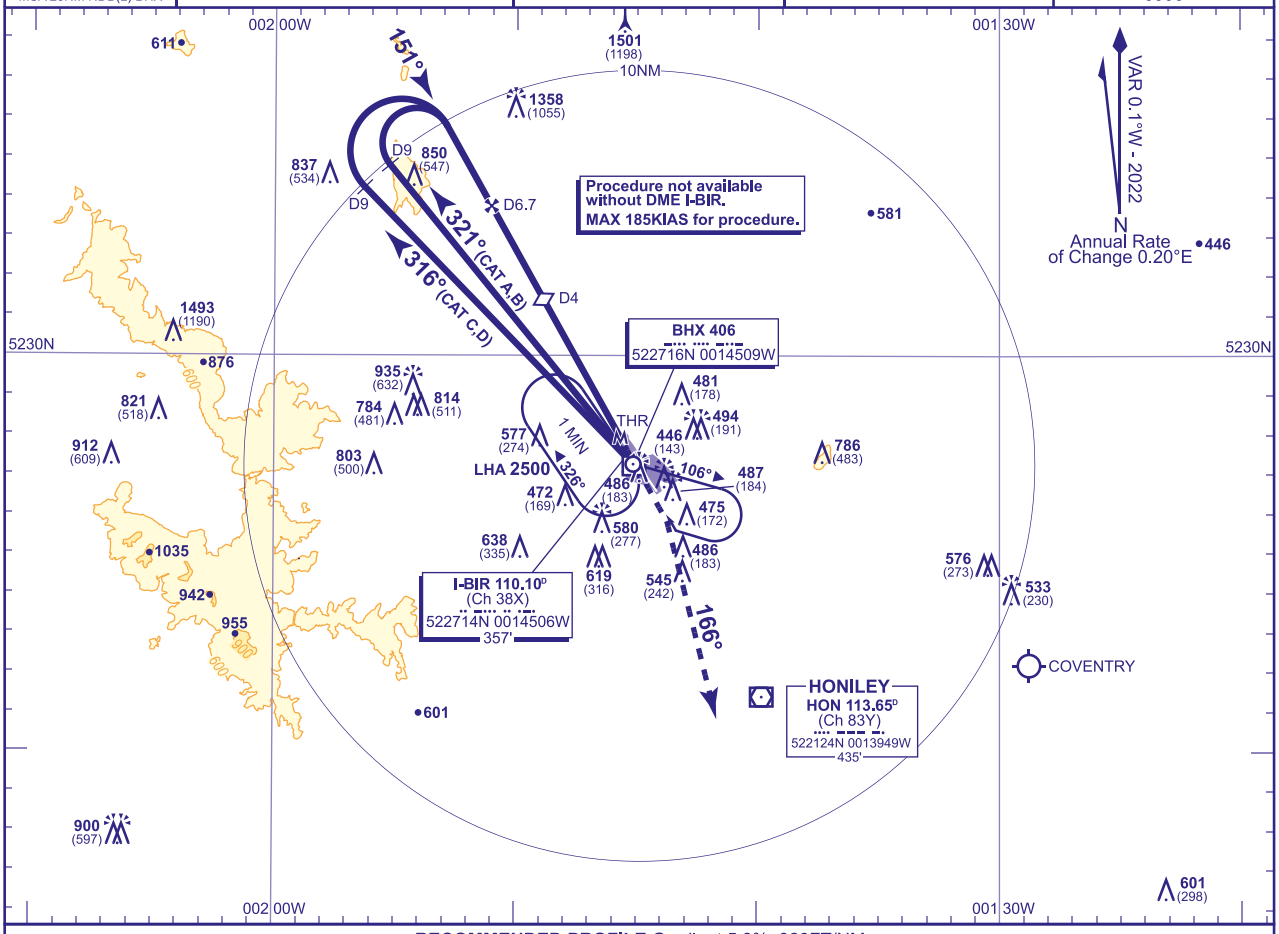
BIRMINGHAM NDB(L)/DME RWY 15
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BHX

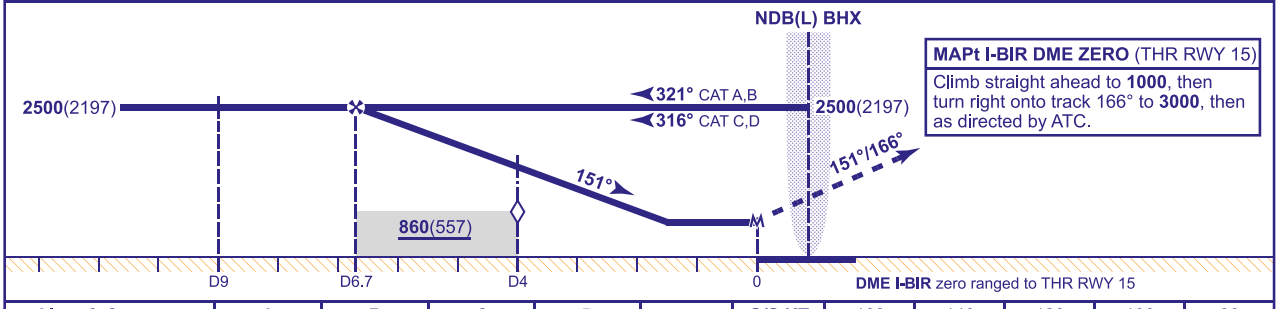
APP 123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION	339
TWR 118.305	BIRMINGHAM TOWER	THR ELEVATION	303
121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION	
ATIS 136.030	BIRMINGHAM INFORMATION	1501 AMSL (1198) (ABOVE THR)	
* See Note 4		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.3%, 320FT/NM

DME I-BIR	6	5	4	3	2
ALT(HGT)	**2280**(1977)	**1960**(1657)	**1640**(1337)	**1320**(1017)	**1000**(697)



MAPt I-BIR DME ZERO (THR RWY 15)
Climb straight ahead to **1000**, then turn right onto track 166° to **3000**, then as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**770**(467)	**770**(467)	**770**(467)	**770**(467)
VM(C)OCA (OCH AAL)	Total Area	**810**(471)	**920**(581)	**1080**(741)	**1410**(1071)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	740	640	540	420

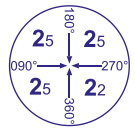
NOTE
1 FAT offset 5° from RWY C/L and intercepts RWY C/L 0.8NM before THR.
2 Remain within I-BIR DME 13 during baseturn.
3 Aircraft commencing from the NDB(L) BHX holding pattern make a 1NM procedure turn left at NDB(L) BHX to establish on appropriate outbound QDR.
4 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA (OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

AERO INFO DATE 22 APR 24
AD 2-EGBB 8-4

INSTRUMENT APPROACH CHART - ICAO

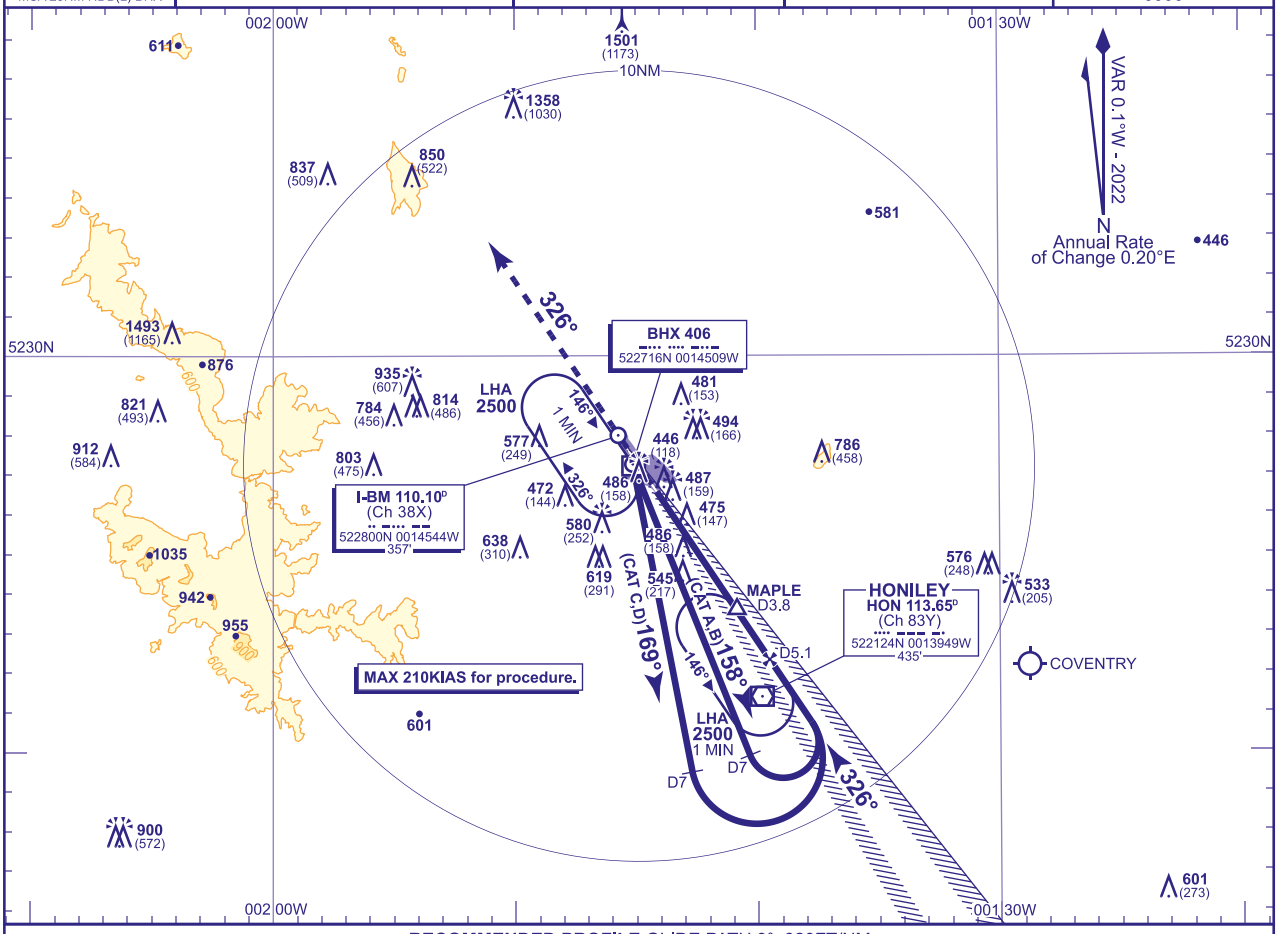
BIRMINGHAM
ILS/DME/NDB(L)
RWY 33
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BHX

APP 123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION	339
TWR 118.305	BIRMINGHAM TOWER	THR ELEVATION	328
121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION 1501 AMSL (1173) (ABOVE THR)	
ATIS 136.030	BIRMINGHAM INFORMATION		
* See Note 1		BEARINGS ARE MAGNETIC	

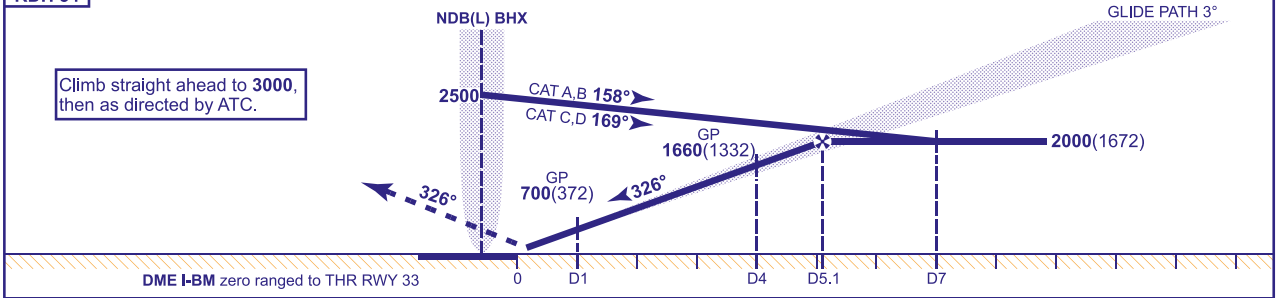
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-BM	5	4	3	2	1
ALT(HGT)	**1970**(1642)	**1660**(1332)	**1340**(1012)	**1020**(692)	**700**(372)

RDH 54



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	CAT I	**488**(160)	**496**(168)	**503**(175)	**513**(185)		FT/MIN	850	740	640	530	420
	CAT II	**396**(68)	**407**(79)	**420**(92)	**432**(104)							
VM(C)OCA (OCH AAL)	Total Area	**810**(471)	**920**(581)	**1080**(741)	**1410**(1071)							

ALTERNATIVE PROCEDURE FROM EXTENDED MAPLE HOLD
Overhead MAPLE at **2500**. Extend the outbound leg of the MAPLE holding pattern to **2000**(1672). At I-BM DME 7 turn left onto LOC. When established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME
Advise ATC and continue as for normal procedure. Radar ranges will be provided at 7NM outbound and at 4NM inbound.

NOTE 1 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA (OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

AERO INFO DATE 22 APR 24
AD 2-EGBB-8-5

INSTRUMENT APPROACH CHART - ICAO

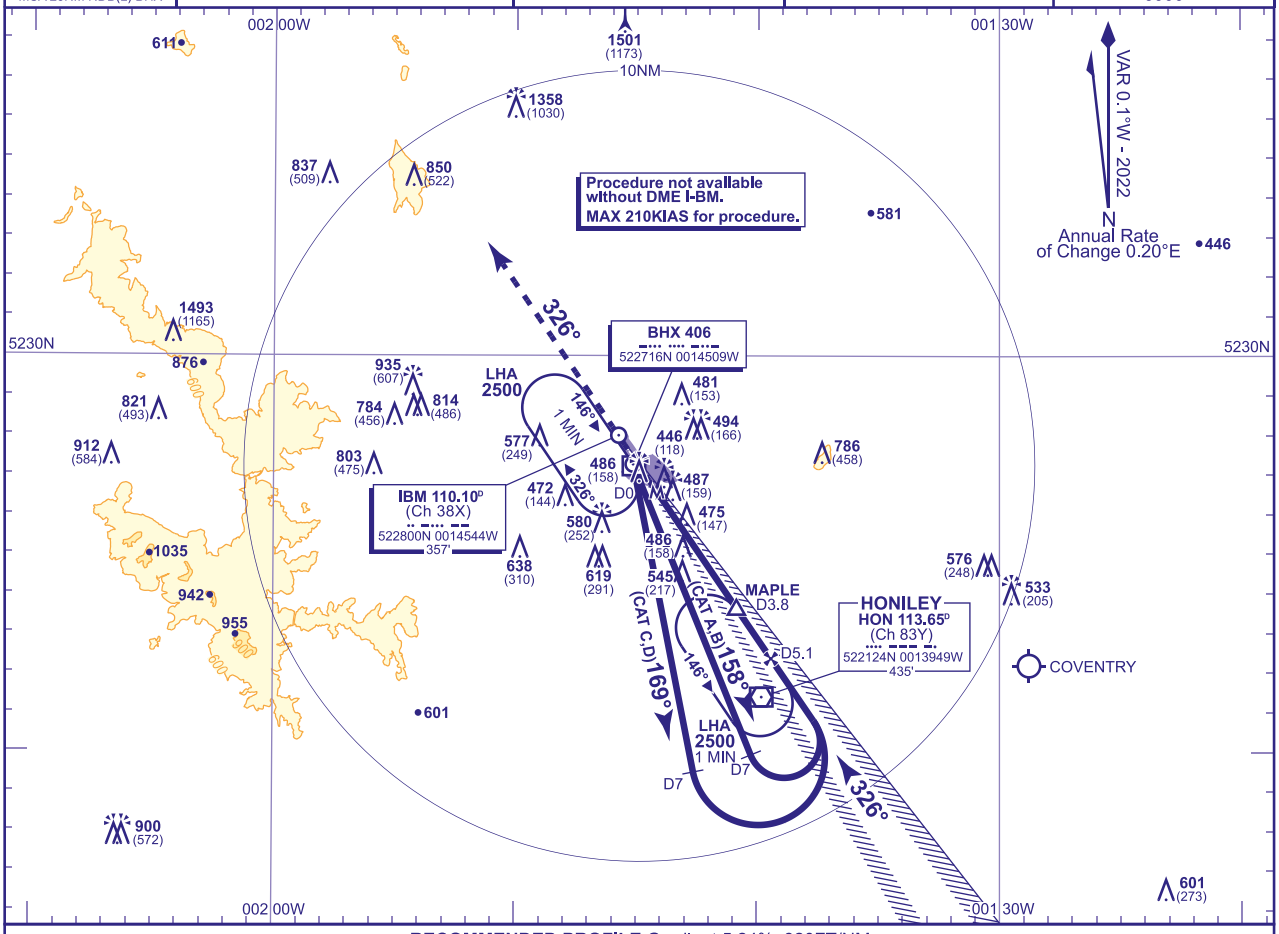
BIRMINGHAM
LOC/DME/NDB(L)
RWY 33
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BHX

APP 123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION	339
TWR 118.305	BIRMINGHAM TOWER	THR ELEVATION	328
121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION	
ATIS 136.030	BIRMINGHAM INFORMATION	1501 AMSL (1173) (ABOVE THR)	
* See Note 1		BEARINGS ARE MAGNETIC	

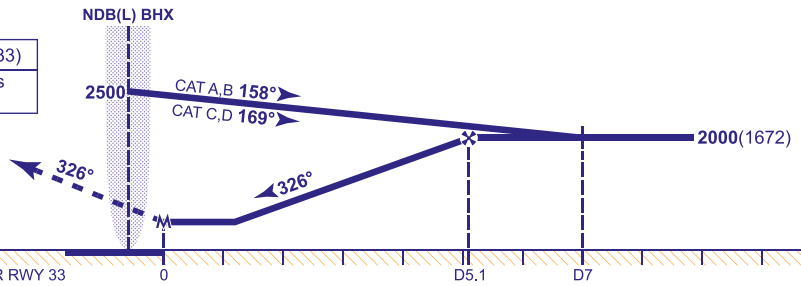
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-BM	5	4	3	2
ALT(HGT)	**1970**(1642)	**1660**(1332)	**1340**(1012)	**1020**(692)

MAPt I-BM DME ZERO (THR RWY 33)
Climb straight ahead to **3000**, then as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**740**(412)	**740**(412)	**740**(412)	**740**(412)
VM(C)OCA (OCH AAL)	Total Area	**810**(471)	**920**(581)	**1080**(741)	**1410**(1071)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE FROM EXTENDED MAPLE HOLD
Overhead MAPLE at **2500**. Extend the outbound leg of the MAPLE holding pattern to **2000**(1672). At I-BM DME 7 turn left onto LOC. When established continue as for main procedure.

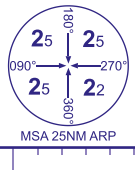
NOTE 1 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA (OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

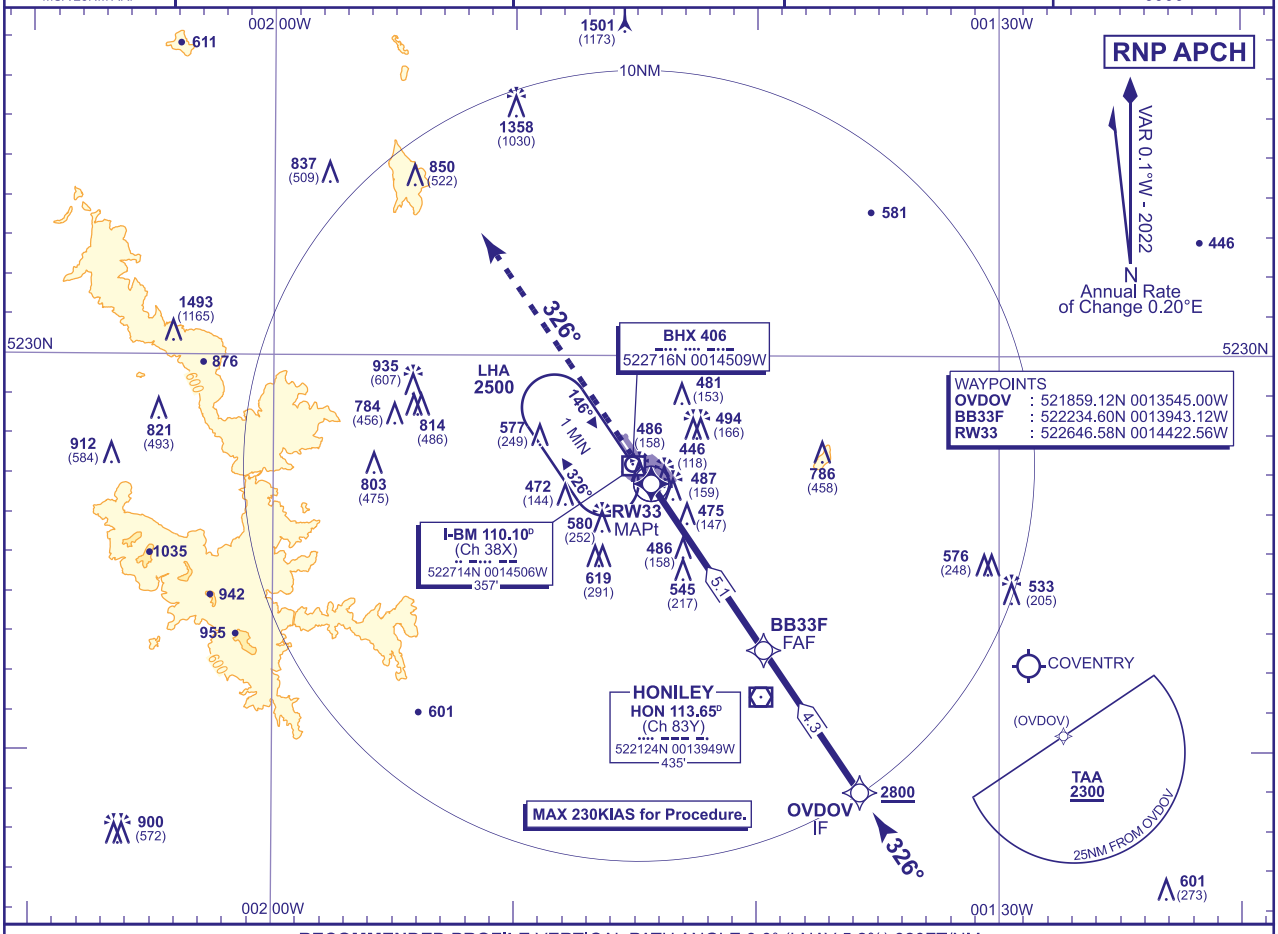
AERO INFO DATE 22 APR 24
AD 2-EGBB-8-6

INSTRUMENT APPROACH CHART - ICAO

BIRMINGHAM
RNP
RWY 33
(ACFT CAT A,B,C,D)



APP 123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION 339	MIN TEMP -10C
TWR 118.305	BIRMINGHAM TOWER	THR ELEVATION 328	TRANSITION ALTITUDE 6000
121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION 1501 AMSL (1173) (ABOVE THR)	
ATIS 136.030	BIRMINGHAM INFORMATION		
* See Note 1		BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.0° (LNAV 5.2%) 320FT/NM

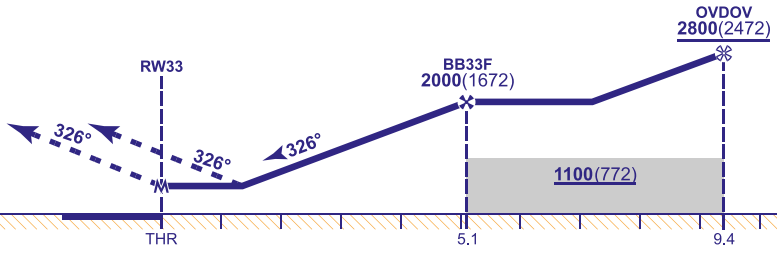
NM to RW33	5	4	3	2
ALT(HGT)	**1980**(1652)	**1660**(1332)	**1340**(1012)	**1020**(692)

TCH 54

MAPt (LNAV): RW33

Climb straight ahead to **3000** then as directed by ATC.

RCF: Climb ahead to **2500** or **I-BM DME 2** (HON D9.2), whichever is the later. Then procedure turn right to **NDB(L) BHX**.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**740**(412)	**740**(412)	**740**(412)	**740**(412)		FT/MIN	850	740	640	530	420
	LNAV	**750**(422)	**750**(422)	**750**(422)	**750**(422)							
VM(C)OCA (OCH AAL)	Total Area	**810**(471)	**920**(581)	**1080**(741)	**1410**(1071)							

NOTE 1 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA (OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

AERO INFO DATE 22 APR 24

I

INSTRUMENT APPROACH CHART - ICAO

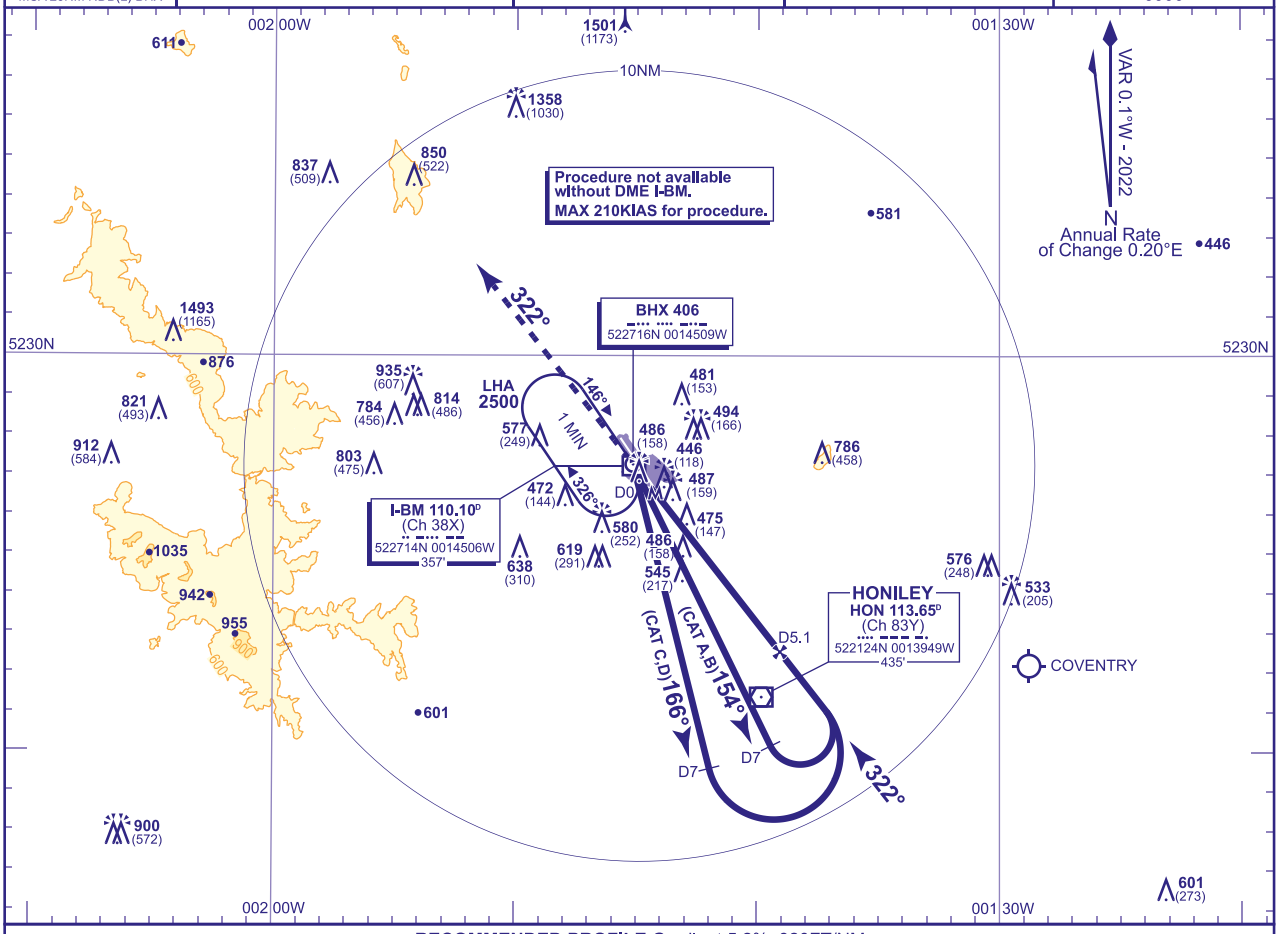
BIRMINGHAM NDB(L)/DME RWY 33

(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BHX

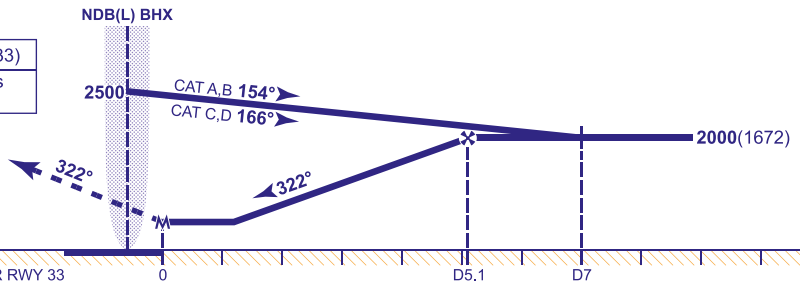
APP	123.980 (131.005 DIRECTOR)	BIRMINGHAM RADAR *	AD ELEVATION	339	TRANSITION ALTITUDE 6000
TWR	118.305	BIRMINGHAM TOWER	THR ELEVATION	328	
	121.805	BIRMINGHAM GROUND	OBSTACLE ELEVATION 1501 AMSL (1173) (ABOVE THR)		
ATIS	136.030	BIRMINGHAM INFORMATION			
* See Note 2			BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-BM	5	4	3	2
ALT (HGT)	1970 (1642)	1660 (1332)	1340 (1012)	1020 (692)

MAPt I-BM DME ZERO (THR RWY 33)
Climb straight ahead to **3000**, then as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	800 (472)	800 (472)	800 (472)	800 (472)
VM(C)OCA (OCH AAL)	Total Area	810 (471)	920 (581)	1080 (741)	1410 (1071)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE **1** FAT offset 3° from RWY C/L and intercepts RWY C/L 1.4NM before THR.
2 In the event of a radar failure, BIRMINGHAM APPROACH callsign should be used on 123.980 or 131.005.

CHANGE (7/24): VM(C) OCA (OCH AAL) CAT D REVISED. SPECIFICATION CHANGE.

AERO INFO DATE 23 APR 24

Instrument Approach Procedure Coding Tables

BIRMINGHAM RNP RWY15 - Instrument Approach Procedure via NODGU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R15	001	IF	NODGU	N	-	-	3200	-230	523654.53N 0015541.33W	IF 11.0NM
R15	002	TF	BB15F	N	146° (145.7°)	-	2500	-	523321.70N 0015142.98W	FAF / 6.7NM
R15	003	TF	RW15	Y	146° (145.7°)	-	-	-	522748.52N 0014531.43W	MAPt
R15	004	CA	-	-	146° (145.8°)	RIGHT	1000	-	-	-
R15	005	CA	-	-	166° (165.7°)	-	3000	-	-	-

CHANGE (7/24): SPECIFICATION CHANGE.
AERO INFO DATE 11 APR 24

Instrument Approach Procedure Coding Tables

BIRMINGHAM RNP RWY33 - Instrument Approach Procedure via OVDOV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R33	001	IF	OVDOV	N	-	-	2800	-230	521859.12N 0013545.00W	IF 9.4NM
R33	002	TF	BB33F	N	326° (325.9°)	-	2000	-	522234.60N 0013943.12W	FAF / 5.1NM
R33	003	TF	RW33	Y	326° (325.9°)	-	-	-	522646.58N 0014422.56W	MAPt
R33	004	CA	-	-	326° (325.8°)	-	3000	-	-	-

HANGE (7/24): SPECIFICATION CHANGE.
ERO INFO DATE 11 APR 24

EGLK — BLACKBUSHE

EGLK AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGLK — BLACKBUSHE

EGLK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 511926N Long: 0005051W Mid Point of Runway 07/25
2	Direction and distance from city	8.5 NM SE by S of Reading.
3	Elevation / Reference temperature / Mean Low Temperature	325 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	1.11°E (2027) / 0.17°E
6	AD Administration Address Telephone E-mail address Web address	BLACKBUSHE AIRPORT LTD. Terminal Building, Blackbushe Airport, Camberley, Surrey, GU17 9LQ. 01252-471300 (Ext 2 for ATSU/PPR) 07710-364933 (ATS mobile) tower@blackbusheairport.co.uk www.blackbusheairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGLK AD 2.3 OPERATIONAL HOURS

1	AD Administration	0700-1800 (0600-1700), and by arrangement within period 1800-2200 (1700-2100).
2	Customs and immigration	By arrangement through FIS/ATSU
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18.
8	Fuelling	0800-1800 (0700-1700), and by arrangement at other times.
9	Handling	As AD hours
10	Security	
11	De-icing	As AD hours
12	Remarks	This aerodrome is strictly PPR by website (www.blackbusheairport.co.uk/ppr) or by telephone for all movements.

EGLK AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL, AVGAS UL91 100 Aero, 80 Aero, D100, D80, Aero Multi.
3	Fuelling facilities/capacity	AVTUR Jet A-1 bowser with over wing and pressure refuelling capability, AVGAS 100LL mobile bowser. AVTUR Jet A-1 fixed storage capacity 45,000 LT, mobile capacity 19,000 LT. AVGAS 100LL fixed storage capacity 40,000 LT, mobile capacity 11,000 LT. AVGAS UL91 fixed storage capacity 15,000 LT. AVGAS 100LL self-service refuelling using local account card or credit card.
4	De-icing facilities	Limited to Kilfrost RDF in manual sprayers.
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Limited on-site engineer, by arrangement with ATSU.
7	Remarks	RFFS able to assist with pushback for some types.

EGLK AD 2.5 PASSENGER FACILITIES

1	Hotels	See Airport website: www.blackbusheairport.co.uk/hotels.
2	Restaurants	Pathfinder Cafe open 0800-1600 (0700-1500) daily: www.blackbusheairport.co.uk/cafe.
3	Transportation	Pre-booked Taxis or Chauffeur Services: See www.blackbusheairport.co.uk/taxi. Car Hire: Enterprise Rent-A-Car Camberley will drop vehicles. Nearest Rail Station: Fleet (3.4 Miles). Complementary Crew Car available for Executive Aircraft Pilots (MTOW > 3500 KG) by prior arrangement. Book online: https://www.blackbusheairport.co.uk/executive.
4	Medical facilities	Company first aiders
5	Bank and Post Office	Cash Machine (ATM) Yateley 2.0 Miles. Post Office Yateley 2.3 Miles.
6	Tourist Office	
7	Remarks	WC and Refreshment Facilities available to all users in the Pathfinder Café. Complementary Use of Passenger Lounge, Crew Briefing Room and Shower Room in Terminal Building for Executive Aircraft Pilots (MTOW > 3500 KG). See www.blackbusheairport.co.uk/executive.

EGLK AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission. RFF Category 1 between 1200-1400 (1100-1300). RFF Category 2 available during these hours by prior arrangement.
2	Rescue equipment	Simon Gloucester Saro Highlander Protector. Chevrolet Silverado 4x4 Rapid Intervention Vehicle.
3	Capability for removal of disabled aircraft	In the event of an aircraft incident, light aircraft can usually be removed using Airport resources. Large aircraft can be removed using outside contractors in conjunction with Airport staff.
4	Remarks	

EGLK AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations, no snow clearing facilities available. Contact ATSU for further information.

EGLK AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	TERMINAL APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway ALPHA: 10.5 M Surface: Asphalt Taxiway CHARLIE: 15 M Surface: Asphalt Taxiway DELTA: 9.5 M Surface: Asphalt Taxiway ECHO: 15 M Surface: Asphalt Taxiway FOXTROT: 10 M Surface: Asphalt

		Taxiway GOLF: 15 M Surface: Asphalt
		Taxiway HOTEL: 15 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGLK AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Aircraft > 3500 KG MTOW will park on Apron Stands 1-9 marked on the ground and with signage, with taxiway guide lines.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Runway designation, displaced landing thresholds, runway centre-line, continuous yellow lines mark the runway entry/exit routes. Runway light(s): Threshold - HI green, Runway Edge - HI colour coded red (pre threshold)/white, Runway End - HI red. Taxiway marking aid(s): Yellow centre-line, with green reflectors. Blue edge reflectors. Taxiway light(s): Blue edge lights from runway to holding points A2, C1, D & E1.
3	Stop bars and runway guard lights (if any)	Runway guard lights at holding points A1, C1, D, E1.
4	Other runway protection measures	Illuminated runway hold signs at A1, C1, D, E1.
5	Remarks	Three WDIs (LGTD): 511926.21N 0005105.69W - 511931.30N 0005041.24W - 511923.79N 0005027.49W. WDI: 511917.58N 0005111.38W.

EGLK AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLK4230) 07/TAKE-OFF 25/ APPROACH	MAST	512124.71N 0004321.29W	766 FT	348 FT	No	
(EGLK4057) 07/APPROACH 25/ TAKE-OFF	COMMS MAST	511926.64N 0005139.25W	390 FT	72 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
TRAINING AREA 2	CRANE	511911.25N 0004824.62W	425 FT	100 FT	Yes Solid white.	Gibraltar Barracks, Minley Road.
TRAINING AREA 1	CRANE	511856.58N 0004848.72W	425 FT	100 FT	Yes Solid white.	Gibraltar Barracks, Minley Road.

EGLK AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24

3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	Available via Met Office Aviation Briefing Service.
8	Supplementary equipment available for providing information	Webcam and local Met observations at www.blackbusheairport.co.uk/weather.
9	ATS units provided with information	BLACKBUSHE
10	Additional information (limitation of service, etc.)	Observations only disseminated locally.

EGLK AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
07	071.57°	1285 x 46 M	RWY surface: Asphalt	511921.18N 0005116.63W 151.4 FT	THR 321.7 FT	
25	251.58°	1285 x 46 M	RWY surface: Asphalt	511931.40N 0005027.69W 151.4 FT	THR 324.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1285 x 102 M				RWY 07 Threshold displaced by 149 M.
		1285 x 102 M				RWY 25 Threshold displaced by 137 M.

EGLK AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	1199 M	1199 M	1199 M	1102 M	
25	1199 M	1199 M	1199 M	1062 M	

EGLK AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07		Green Light intensity high Green wingbars	PAPI Left/3.1° 20 FT			Full length 60 M White Light intensity high	Red Light intensity high		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
25		Green Light intensity high Green wingbars	PAPI Left/3.1° 20 FT			Full length 60 M White Light intensity high	Red Light intensity high		

EGLK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 511921.72N 0005021.78W Flashing White.
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	EDGE: Blue edge lights from runway to holding points A2, C1, D & E1.
4	Secondary power supply/switch-over time	Yes 15 S
5	Remarks	

EGLK AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGLK AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BLACKBUSHE ATZ 511738N 0005215W thence clockwise by the arc of a circle radius 2 NM centred on 511926N 0005051W to 511806N 0004829W - 511801N 0004919W - 511758N 0004954W - 511753N 0005038W - 511746N 0005120W - 511738N 0005215W	Upper limit: 2000 FT AGL Lower limit: SFC	G	BLACKBUSHE INFORMATION English	6000 FT		0700-2200 (0600-2100). The southern boundary of the ATZ is formed by the northern extremity of the M3 motorway. That part of Blackbushe ATZ coincident with Farnborough CTR 1 is Class D. Designation and lateral limits: Local Flying Area see EGLK AD 2.22, Flight Procedures.

EGLK AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	BLACKBUSHE INFORMATION	122.305 DOC 10 NM/3,000 FT.			0700-1800 (0600-1700), and by arrangement within period 1800-2200 (1700 2100).	AFIS service is subject to downgrade to A/G at short notice.
OTHER	BLACKBUSHE RADIO	122.305 A/G frequency. DOC 10 NM/3,000 FT.			As directed by ATSU.	

EGLK AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB 1.11°E (2027)	BLK	328.000 kHz	HO	511923.84N 0005041.26W		On AD. Range 15 NM. Normally radiates H24

EGLK AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Non-radio aircraft not accepted except in an emergency.
b) Limited to three aircraft undertaking circuit practice/training. All circuit bookings managed by ATSU in accordance with airport Rules & Procedures.
c) Circuit Training by non-based fixed wing aircraft not permitted.
d) Flexwing Microlights are not permitted.
e) Jets & turbo-props are required to file IFR flight plans and operate approaches in accordance with the Blackbushe Airport Rules & Procedures at www.blackbusheairport.co.uk/ifr so as to ensure the separation of dissimilar types. Jets & turbo-props must not attempt to enter the ATZ VFR unless it has been established with ATSU that the visual circuit is empty.
f) All pilots/operators are bound by the Blackbushe Airport Terms and Conditions and Rules & Procedures, which are available on the aerodrome website: www.blackbusheairport.co.uk/vfr.

2 GROUND MOVEMENT

a) All IFR departures and all aircraft parked on the main apron are required to obtain start approval from AFIS before starting engines.
b) Restricted Runway Code A operations on Taxiway Delta. Aircraft with wingspan 15 M or greater or main gear wheel span of 4.5 M or greater are prohibited from using Taxiway Delta, irrespective of any instruction passed by AFIS, except in an emergency.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Fast jet aircraft mixing with much slower GA aircraft should be expected at any time during operational hours. All pilots must exercise caution and always obtain traffic information before entering the ATZ.
b) The grassed surface South of Runway 07/25 between Taxiways C and D is unsuitable for use by certain types of helicopter due to its poor grading. Pilots are cautioned to positively ascertain that the grading of this area is suitable for their operational requirements.
c) Visual glide slope guidance signals for both Runways 07 and 25 are visible to the south of the extended runway centre-lines where normal obstacle clearance is not guaranteed. They should not be used until the aircraft is aligned with the runway.
d) Caution, large concentrations of birds maybe on and in vicinity of the aerodrome.
e) Helicopter training in designated areas takes place on the airport.
f) Blackbushe is located 3.8 NM northwest of Farnborough aerodrome, which shares a similar runway orientation. Pilots should exercise caution in identifying the correct aerodrome from the air, notably when approaching Blackbushe from the south and southeast. Farnborough is distinguishable by a large silver coloured hangar and terminal complex located to the north of the runway.
g) Below FL 65 aircraft arriving/departing via the ATS route network can expect to operate within Class E airspace between ASLAP and 3 NM west of HAZEL/within 7.5 NM of GWC. ATC will not provide notification to pilots of entry to or exit from Class Echo airspace when the aircraft is transitioning from a higher classification of airspace.
h) Farnborough controlled airspace exists south of Blackbushe. Pilots to remain outside of this controlled airspace unless in receipt of a clearance directly from Farnborough Radar or Blackbushe Information. See also EGLK AD 2.22, Flight Procedures.
i) Model Aircraft Flying within 0.2 NM radius of 512106.53N 0005112.53W (Eversley Cricket Club, Hampshire) Max height 400 FT AGL; 700 FT AMSL.

5 HELICOPTER OPERATIONS

a) Helicopters must avoid flying parallel with fixed wing aircraft on final approach.
b) Rotary aircraft must contact Blackbushe ATSU for permission to start their rotors/engines.
c) All rotary traffic shall conform to the published circuit procedures and avoid all published noise abatement areas.
d) Rotary aircraft joining from H3/Bagshot VRP arriving from the east shall establish communication with Blackbushe ATSU prior to entering the ATZ. A standard join shall be in compliance with EGLK AD 2.22 paragraph 2 (a) below. If unable to establish communications, aircraft shall remain outside of the ATZ until this can be achieved.
e) Departing:

i. Operators must inform Blackbushe ATSU if they intend to enter the London CTR via Bagshot VRP (H3) when booking out/ requesting PPR.
ii. Blackbushe ATSU will obtain a VFR clearance to enter the EGLF CTR1 in accordance with Blackbushe Airport Rules & Procedures S.11 and deliver this to the operator who must acknowledge and comply with it.
iii. Operators must not lift without first being in receipt of the clearance.
iv. When departing, operators must comply with the published circuit, climb on the downwind leg and exit to the east of the ATZ, remaining north of the M3 until otherwise instructed by Farnborough Radar.
v. Rotary traffic intending to enter the London CTR without transiting EGLF CTR1 must depart to the west, turn north when able to avoid the noise abatement areas and remain outside the ATZ.

6 USE OF RUNWAYS

a) When the RVR at Blackbushe is reported as 1500 M or less, Low Visibility Safeguarding will be implemented. The aerodrome will be unavailable to fixed wing VFR traffic.
b) When the RVR at Blackbushe is reported as 800 M or less, LVPs will be implemented. All arrivals are prohibited and only IFR departures permitted. Aircraft departing IFR will be required to inform the ATSU of their designated take-off alternate, as returning to the aerodrome will be unavailable. Departures IFR during LVPs must be in accordance with regulatory, or operator defined minima.
c) When the RVR is reported as 250 M or less the aerodrome will close.
d) The Airport and its runways can be closed at the Airport Managements discretion.
e) PPR is required via website or telephone for all movements.

7 TRAINING

Not applicable.

EGLK AD 2.21 NOISE ABATEMENT PROCEDURES

a) All pilots must familiarise themselves with the noise abatement areas on the airport website: www.blackbusheairport.co.uk/vfr.
b) Remain well clear of the villages of Yateley and Eversley to the north/northeast of the aerodrome and Hartley Wintney to the west of the aerodrome.
c) When arriving from the northeast, position sufficiently to the west to avoid overflying Yateley and Eversley.
d) On approach to Runway 25, ensure sufficient height is maintained to avoid the use of excessive power. Keep clear of housing areas to the north.
e) On climb-out from Runway 07, a 10° turn to the south (right) as soon as safe to do so will avoid overflying Yateley.

EGLK AD 2.22 FLIGHT PROCEDURES

1 GENERAL

a) Circuits are always to the south of the airfield and are flown at 800 FT (QFE) for most fixed wing aircraft (including twins).
b) Jets & turbo-props are not to enter the visual circuit unless ATSU confirm the circuit is empty. Such aircraft shall file IFR flight plans and receive ATC instructions from Farnborough Radar onto a long final approach so as to separate dissimilar types. See www.blackbusheairport.co.uk/ifr for more information and diagrams.
c) Where a light twin has difficulty integrating with slower aircraft in the 800 FT circuit, a 1200 FT circuit may be appropriate having caution to controlled airspace. Pilots must communicate their intentions with Blackbushe ATSU.
d) Rotary wing circuits are flown at 800 FT (QFE) typically inside the fixed wing circuit. All pilots should be aware of rotary traffic using non-standard circuits when using the Helicopter Training Area to the south of Runway 07/25.
e) Aircraft operating within the circuit are required to select transponder code A7010 (with associated Mode C and/or Mode S), unless having been allocated with a discrete code by an appropriate ATSU. This transponder code shall be selected before taking off into the circuit, or when rejoining the circuit to land, and prior to entering the LFA.
f) Pilots must at all times remain north of the M3 motorway to avoid straying into the Farnborough ATZ.
g) Circuit traffic shall be limited to a maximum of 3 fixed wing aircraft on circuit details, plus one aircraft departing the aerodrome, and one aircraft returning, providing for a maximum of 5 fixed wing at a time.
h) A maximum of two rotary aircraft, including arrivals and departures, to be operating at any one time.
i) When the rotary circuit is active, the fixed wing circuit shall conform to the published circuit pattern and glide approaches / low level circuits shall not be flown.
j) Circuit details shall be limited to 5 Touch & Gos / Go arounds, with a full stop landing on the 6th approach. Details may be extended if Blackbushe ATSU advises no other aircraft are waiting for a circuit slot.
k) Circuit availability will be provided to aircraft in the order in which they report ready at the holding point for the runway in use. Aircraft returning to the aerodrome and requesting circuits will only be permitted where there is an available circuit slot, and there are no aircraft on the ground waiting for access to the circuit.
l) Pilots engaged in examinations should be afforded circuit priority where possible, and the cooperation of other pilots in vacating circuit slots will be appreciated.
m) Student solo circuit details may not be conducted after 1500 (1400) on weekends and bank holidays, with the exception of winter night flying, see relevant procedures.
n) Instructors are reminded to consider whether traffic complexity levels are appropriate for solo student pilot operations when booking out, particularly whether business jets or turbo-props are expected within the planned operation period.
o) Circuits by non-based fixed wing aircraft will not normally be permitted.

p) IFR jet & turbo-prop traffic will operate straight-in “long final” approaches to Blackbushe. This is to facilitate the integration with Farnborough airspace, and to avoid faster types using the visual circuit with much slower aircraft.

i. When an IFR fast aircraft is expected, Blackbushe ATSU may inform VFR aircraft that “jet / turbo-prop aircraft expected imminently”. When this information is provided, VFR pilots are expected to either vacate the ATZ to the northwest, or land on their next approach.
ii. Aircraft waiting to join or re-join the visual circuit may only do so once the fast IFR aircraft is established on final and must ensure they fly their circuit to remain behind the jet or turboprop, taking into consideration wake turbulence.
iii. Jet & turbo-prop traffic must not attempt to enter the ATZ VFR without first establishing that the visual circuit is empty.

2 JOINING AND DEPARTURE PROCEDURES

a) There are two standard VFR / SVFR joins:

i. From outside CAS (north and west). Joins from the north and west shall descend to circuit height on the “deadside” (to the north of the Aerodrome). Care must be taken not to overfly Yateley or Eversley to the north, and aircraft arriving from the north east should ensure they are positioned sufficiently west to avoid them.
ii. From within CAS (south and east). Aircraft coming from within the Farnborough CTR shall join overhead at 1,600 FT AAL to ensure they are within the LFA. They shall descend on the deadside and integrate with the visual circuit. Care should be exercised not to overfly the noise abatement area of Yateley except in an emergency.
iii. See diagrams on aerodrome website: www.blackbusheairport.co.uk/vfr.

b) Downwind, base leg, and long final joins may be possible depending on circuit traffic, but pilots are advised to plan for a standard join to avoid circuit conflicts if the circuit is busy.
c) Outside published opening hours (OOH), all aircraft must join using a standard overhead join making blind calls at the appropriate point in the circuit. Pilots should be aware that other aircraft may be operating within the ATZ who may not hear or respond to their calls, and so standard joins are the safest way for all aircraft to join.
d) Runway 07 joins: When joining or descending deadside, take care to remain west of Yateley. Follow the path of disused runway 14/32, keeping it to the left at all times.
e) Unless in an emergency, all fixed wing and rotary aircraft must not depart from either runway to the north over Yateley. Aircraft must first head west before tracking north once clear of the town.
f) Runway 25 departures: If departing to the north or west, straight out departures are permitted with a turn to the right to avoid overflying Hartley Wintney.
g) Runway 07 departures: On climb out, a turn 10° to the south must be made to avoid Yateley. Unless in an emergency, all turns must be to the south. To leave the circuit, climb into the overhead (once clear of the LFA).
h) For more information on circuit procedures, including diagrams, visit the airport website: www.blackbusheairport.co.uk/vfr.

3 MISSED APPROACHES

a) In the event of an aircraft carrying out a Missed Approach, pilots are requested where able, to carry out a visual circuit (south side of the Runway), remain within the Blackbushe ATZ north of the M3 and operate VFR.
b) Pilots must remain aware of the close proximity of instrument approach procedures to Farnborough, and the likelihood of traffic confliction.
c) Where remaining within the Blackbushe ATZ is not possible, the following Missed Approach tracks/altitudes are recommended to deconflict against IFR operations within Farnborough CAS. Note these have not been assessed for terrain clearance, and pilots must ensure they adhere to their own terrain clearance requirements and maintain a good lookout within Class G airspace for other aircraft in the vicinity.

i. Runway 07

1. Climb straight ahead until exiting the ATZ or 1500 FT QNH (whichever is sooner) then turn left (north) remaining outside of controlled airspace. Maintain VMC (if possible) and remain outside CAS climbing to altitude 2400 FT. Retain last assigned SSR code and contact Farnborough Radar frequency 134.355 MHz.
2. If 2 way contact cannot be established with Farnborough Radar, aircraft should either attempt a further approach to Blackbushe, or divert remaining outside of CAS as appropriate.
3. Pilots should note the Farnborough ATZ is notified as active H24.

ii. Runway 25

1. Climb straight ahead until exiting the ATZ or 1500 FT QNH (whichever is sooner) then turn right on track to the west, maintain VMC (if possible) and climb to altitude 2400 FT. Retain last assigned SSR code and contact Farnborough Radar frequency 134.355 MHz.
2. If 2 way contact cannot be established with Farnborough Radar, aircraft should either attempt a further approach to Blackbushe, or divert remaining outside of CAS as appropriate.
3. Pilots should note the Farnborough ATZ is notified as active H24.

d) Farnborough radar may offer traffic information and guidance on repositioning during its hours of operation.

4 LOCAL FLYING AREA

a) Within a Local Flying Area (LFA) of 2 NM radius, centered on the aerodrome (511926N 0005051W) excluding that part of the circle on or south of the M3 motorway, and that part north of a line joining positions 511705N 0005508W - 512112N 0004247W. The part north of these positions is existing Blackbushe ATZ.

b) Pilots are required to contain their circuits within the LFA and ATZ. In particular, on Runway 25 note to turn base leg west of Hawley Lake to avoid infringing the CTR to the east. On Runway 07 turn base leg east of The Elvetham Hotel to avoid infringing the CTR to the west. See circuit diagrams on Blackbushe Airport website for more information.
c) Pilots of aircraft operating within LFA are responsible for providing their own separation from other aircraft operating within the LFA.
d) VFR flights may take place within the LFA subject to the following conditions:

i. In compliance with the Class D Airspace weather minima as defined in ENR 1.4;
ii. Maximum altitude: 2000 FT QNH.

5 SPECIAL VFR IN THE LOCAL FLYING AREA

a) When the official meteorological report at EGLF Farnborough indicates a ground visibility less than 5 KM, all aircraft operating within the Blackbushe LFA will be considered as special VFR flights and compliance with published procedures within this section will be accepted as compliance with a special VFR clearance.
b) In accordance with ORS4 1467, the CAA has authorised an exemption to SERA 8005(b)(5), permitting multiple special VFR aircraft to operate simultaneously within the LFA subject to the following conditions:

i. by day only;
ii. clear of cloud and with the surface in sight;
iii. in a flight visibility of at least 3000 M;
iv. at a speed which, according to its airspeed indicator, is 140 KT or less, to give adequate opportunity to observe other traffic and any obstacles in time to avoid a collision; and,
v. when the reported meteorological conditions at Farnborough Aerodrome include:

1. a ground visibility of not less than 3000 M;
2. a cloud ceiling of not less than 600 FT.

c) The following additional conditions exist as agreed between the Blackbushe and Farnborough ANSPs within a Letter of Agreement:

i. Maximum altitude 1500 FT within the LFA;
ii. A dedicated SSR Code of A0424 is to be utilised by all special VFR flights;
iii. Blackbushe ATSU must be open and operational;
iv. Aircraft must remain north of the M3 motorway at all times unless otherwise coordinated with Farnborough;
v. Blackbushe will limit the number of aircraft operating within the visual circuit to three special VFR flights.

d) Separation between aircraft operating within the Blackbushe Local Flying Area is not provided. Pilots are responsible for providing their own separation from other such aircraft within said Local Flying Area.
e) All Autonomous SVFR circuits shall be flown at 800 FT AAL.
f) Aircraft joining from within the Farnborough CTR shall join overhead at an altitude of not greater than 1400 FT (1075 FT AAL) to provide adequate separation from Odiham traffic at 2400 FT.
g) The circuit is limited to three aircraft at a time operating SVFR circuits. In addition, arrivals and departures shall be permitted one at a time. Circuit availability will be provided to aircraft in the order in which they report ready at the holding point for the runway in use.
h) Departures on Runway 25 remaining outside of the LFA may continue subject to VFR rules for Class G airspace.
i) Rotary aircraft capable of operating circuits north of the LFA, remaining outside controlled airspace may continue to do so, VFR. Such aircraft must communicate their intentions to remain outside controlled airspace to Blackbushe ATSU. All fixed wing aircraft must conform to the published circuit, operate within the LFA, and will be considered special VFR.
j) If all 3 circuit slots are in use, then subsequent aircraft may depart, (including using the LFA if departing on Runway 07) but may not remain in the circuit for Touch & Gos or Go-Arounds.
k) Joining aircraft may request circuits prior when approaching the ATZ, but aerodrome policy does not permit these if all 3 circuit slots are in use. Blackbushe ATSU will state “Special VFR Circuit full, standby”. Joining traffic may then elect to join the circuit to land only; or may remain outside of the ATZ until Blackbushe ATSU advises there is a circuit slot.
l) Aircraft joining when the SVFR circuit is full that need to go-around for any safety reason are requested to follow the recommended go-around profile to avoid entering the LFA:

i. Runway 25 – Climb straight ahead, bearing right (to the north) to avoid overflying Hartley Wintney, exit the ATZ, and position to re-join.
ii. Runway 07 – Climb straight ahead until exiting the ATZ, or 1500 FT QNH (whichever is sooner) then turn left (north) remaining outside of controlled airspace and position around the north of Yateley (without overflying noise abatement areas) to re-join from the north west.

m) Where the official meteorological report at EGLF Farnborough indicates a ground visibility less than 3000 M, all aircraft operating within the Blackbushe LFA will be required to land on their next approach or vacate the LFA. Any special VFR flights will need to be provided a clearance to operate one at a time by Farnborough as follows:

i. Clearance to operate within the LFA, Special VFR will need to ensure required separation from other IFR/SVFR operations, and will be relayed from Farnborough via the Blackbushe AFISO when manned, or issued directly by Farnborough Radar for aircraft operating out of hours. The separation requirement will result in only one aircraft being able to operate Special VFR at a time within the LFA;

1. Remain clear of cloud and with the surface in sight;
2. Maximum altitude: 1500 FT QNH;
3. Fly at a speed of 140 KT IAS or less;
4. A minimum cloud ceiling of 600 FT;

5. A minimum flight visibility of 1500 M;
6. In compliance with the requirements of ENR 1.2.

n) When IFR traffic is operating at Blackbushe, aircraft operating special VFR will be required to land or vacate the LFA in accordance with Rule 10.2 of the Blackbushe Airport Rules & Procedures.

i. Due to the proximity of Farnborough and RAF Odiham, some types of IFR flights into or out of those aerodromes will conflict with the use of the LFA SVFR. In such situations Farnborough Radar may inform Blackbushe that SVFR is temporarily unavailable, and Blackbushe traffic shall be required to land on the next approach or vacate the LFA / ATZ.

o) Blackbushe ATSU will make use of specific phrases to advise pilots of the availability of slots within the special VFR circuit, and when aircraft are required to vacate. For examples of these see the Blackbushe Airport Rules & Procedures available on the airport website.

6 AIRCRAFT IN THE FARNBOROUGH CTR OUTSIDE THE BLACKBUSHE LFA

a) Aircraft operating VFR or Special VFR in the Farnborough CTR inbound to Blackbushe (or otherwise) must also satisfy the requirements of Rule 11 of the Rules of the Air 2015 by contacting Blackbushe ATSU before entering the Blackbushe ATZ, including the LFA. Farnborough Radar will, whenever possible, permit an aircraft to leave frequency temporarily in order to do so. If this is not possible, aircraft must leave the CTR clear of the Blackbushe LFA and route to Blackbushe from a northerly direction.
b) Pilots requiring a VFR or Special VFR clearance to transit the Farnborough CTR must not fly beyond the LFA/CTR boundary or otherwise enter the CTR until a clearance has been obtained from Farnborough Radar.

7 ATS ROUTE FLIGHTS

a) **General**

In order to provide improved ATC handling a system of Standard Routes has been established and these are published in the UK Standard Route Document (SRD) which can be found here:

http://www.nats.aero/ais.

Additionally, aircraft inbound via the ATS Route Network must follow the Farnborough Standard Arrival Routes (STAR) as shown at AD 2-EGLF-7-1 to 7-8.

b) **Flight Plans**

Pilots wishing to fly on the ATS Route System are to flight plan via the appropriate routes detailed in paras (c) and (d) and include EGLFZTZX in their Flight Plan.

c) **Inbound Aircraft**

i. **Routes**

Inbound aircraft that are RNAV 1 compliant are to flight plan via the RNAV 1 Standard Arrival Routes (STARs) associated with Farnborough as detailed in AD 2.EGLF-7-1 to 7-2 and AD 2.EGLF-7-5 to 7-8. Other aircraft are to flight plan via the RNAV 5 STARs as detailed in AD 2.EGLF-7-3 to 7-4.

Note: *Arrivals routing via RNAV 5 STARs may be tactically routed via 5LNC points detailed within the RNAV1 STAR plates. Crews should be familiar with the following 5LNC points:*

Point	Latitude	Longitude
INDOX	511839.55N	0010114.04W
DIXIB	511412.22N	0005053.53W
EVATA	510821.29N	0004557.52W
LUXIV	510510.63N	0004657.06W

ii. **Inbound Procedures**

1. After leaving the ATS Route System, pilots will normally be provided with a radar service outside CAS by Farnborough Radar during the notified operating hours shown at EGLF AD 2.18. A contact frequency will be given by London Control before leaving the ATS Route System.
2. When Farnborough Radar Unit is closed or unable to provide a radar service, pilots will be instructed to leave CAS in the vicinity of PEPIS and are then to proceed by a route which remains outside of CAS.

iii. **Speed Limits**

Speed limit points are included within the various Standard Arrival Routes (STARs) referred to in c (i).

iv. **Loss of Communications Procedures (inbound aircraft)**

Aircraft should descend to leave CAS at an appropriate point and proceed outside CAS in accordance with the Basic Loss of Communications Procedures detailed at ENR 1.1, paragraph 3.4.

d) **Departing Aircraft**

i. **Routes**

1. ATS Route joining clearance is to be requested for the first ATS Significant Point in the routes detailed below. **These routes are not assessed for obstacle clearance and do not constitute Standard Instrument Departure procedures.**
2. Pilots who wish to join the ATS Route Network at other than CPT, GWC or HAZEL should flight plan to join the Airways System when clear of the London TMA.

Note: *Pilots should be aware that the provision of ATS is extremely limited for any flight outside CAS between OCK/BIG/DET. This is due to the large number of locations from which extensive VFR operations take place in this constrained area, combined with the limitations of any ATS provision.*

Pilots should therefore take into account the lack of available ATS in any area that is known to be busy with multiple VFR operations and should anticipate the extended time that may be required to operate outside CAS before any joining clearance can be provided.

Additionally, requests made to LTC Swanwick to join CAS prior to the boundary of the London TMA may be unfulfilled due to sector workload and it should also be noted that below FL 70 a Basic Service is the only ATS available from LTC Swanwick TMA controllers.

Departure to	Via	Route	Notes
North	CPT	As per UK SRD	Includes departures to EGGW, EGSC, EGSG, EGSS and EGSU
Northeast			
West			
Northwest			
South	GWC	As per UK SRD	Includes departures to EGKA, EGKB, EGKK, EGKR, EGLC and EGMC
East	HAZEL	As per UK SRD	Includes departures to EGLD, EGLL and EGWU
Southeast			
Southwest			

Note: *See UK Standard Route Document:*

http://www.nats.aero/ais.

ii. **Procedures**

1. **Pilots are to ensure that they have received and acknowledged a joining clearance before entering CAS.**
2. The Blackbushe ATSU will notify the pending departure to London Terminal Control (Swanwick) (LTCC) and will co-ordinate the departure with Farnborough.
3. When Runway 07 is in use at Blackbushe, the Blackbushe ATSU will normally relay joining clearances, to enter the Farnborough CTR/CTA, to pilots on behalf of Farnborough. At all other times the Blackbushe ATSU will issue pilots with after departure instructions and pilots must remain outside of CAS until a clearance to enter CAS has been issued by Farnborough or LTCC.
4. Aircraft will contact Farnborough Radar as soon as possible after departure from Blackbushe whilst maintaining a listening watch on the Blackbushe frequency until clear of the ATZ. Unless otherwise instructed, the Farnborough Radar frequency is 134.355 MHz.
5. Farnborough Radar will individually coordinate entry into the ATS Route Network with LTCC once the departure is airborne. This may require the aircraft to leave Farnborough CAS prior to subsequent join into the LTMA. If this is the case, Farnborough may provide a Traffic Service or Deconfliction Service as appropriate.
6. If Farnborough Radar is closed or is unable to provide a radar service outside CAS the Blackbushe ATSU will transfer the aircraft directly to the appropriate LTCC sector and the pilot must request clearance to join CAS.
7. Pilots are reminded of the need to comply with any Air Traffic Flow Management measures in force at the time.
8. Departures outside of the opening hours of Blackbushe ATSU requiring airways joining clearance are requested to call the London Terminal Control Supervisor on 02380-401104 prior to departure in order to activate their flight plan and receive an airways squawk. During the opening hours of Farnborough pilots shall also telephone Farnborough on 01252-526015. For Farnborough opening hours see EGLF AD 2.3.

iii. **Loss of Communication Procedures (outbound aircraft)**

1. Pilots should adopt the Loss of Communications Procedures detailed at ENR 1.1, paragraph 3.4.

Flights which have not received an ATC clearance to enter CAS should not enter CAS unless an overriding safety reason compels entry.

e) **Warnings**

Below FL 65 aircraft arriving/departing via the ATS route network can expect to operate within Class Echo airspace between ASLAP and 3 NM West of HAZEL/within 7.5 NM of GWC. ATC will not provide notification to pilots of entry to or exit from Class Echo airspace when the aircraft is transitioning from a higher classification of airspace.

Within these volumes of airspace VFR traffic may be operating but not in communication with Farnborough.

EGLK AD 2.23 ADDITIONAL INFORMATION

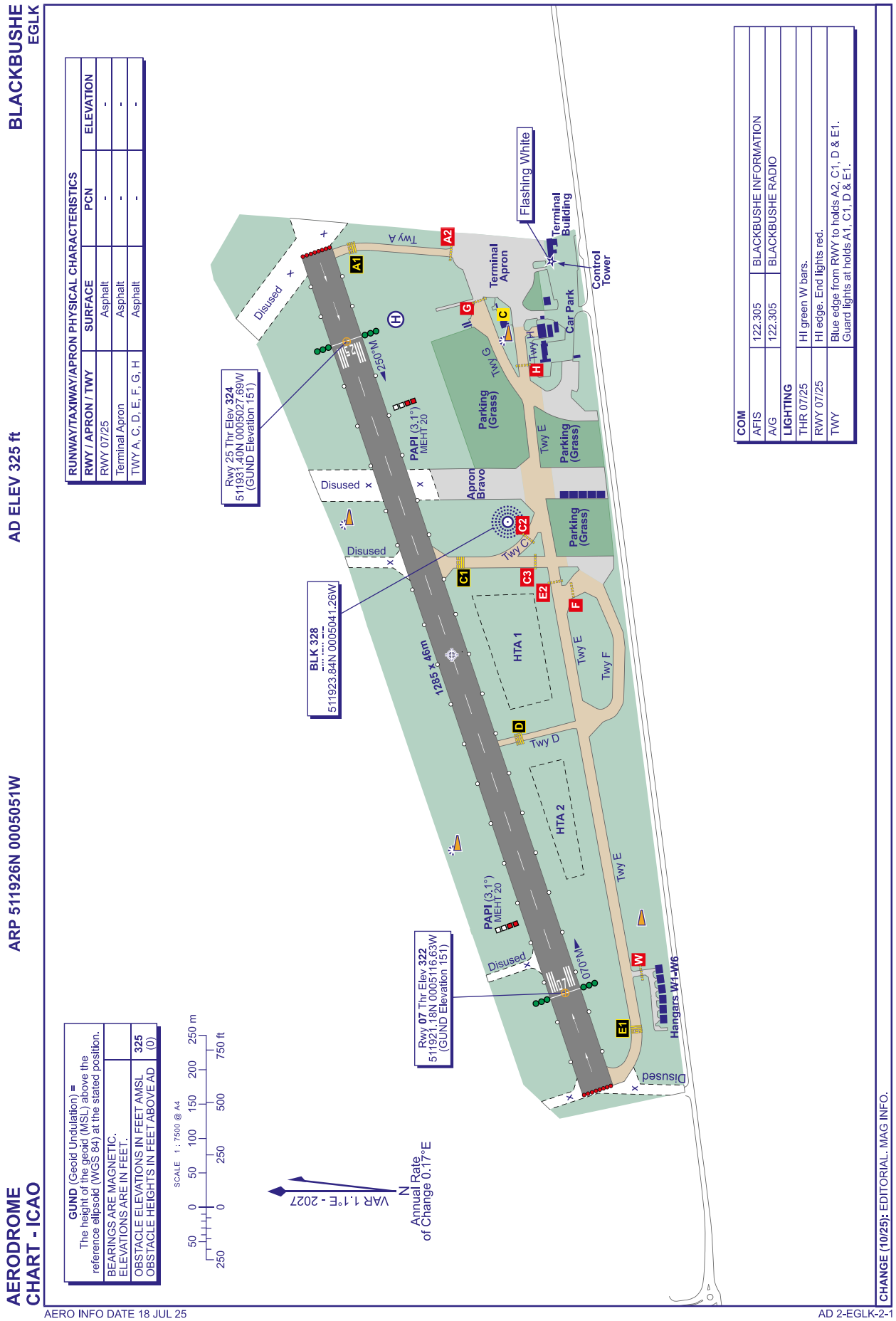
Not applicable.

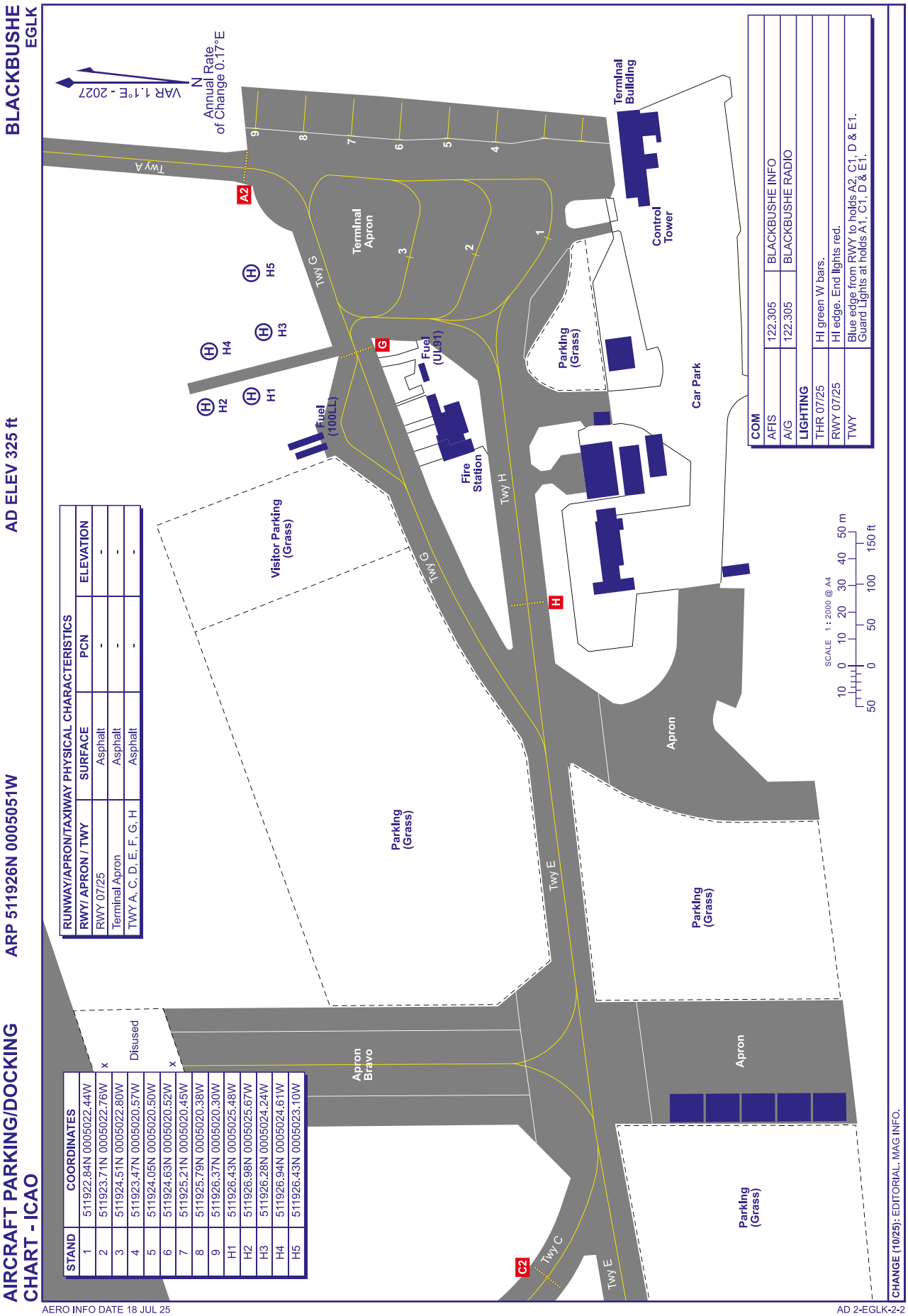
EGLK AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGLK-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGLK-2-2

EGLK AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable


BLACKBUSHE
EGLK
AD ELEV 325 ft
ARP 511926N 0005051W
AERODROME CHART - ICAO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
RWY / APRON / TWY | SURFACE | PCN | ELEVATION
RWY 07/25 | Asphalt | - | -
Terminal Apron | Asphalt | - | -
TWY A, C, D, E, F, G, H | Asphalt | - | -
COM
AFIS | 122.305 | BLACKBUSHE INFORMATION
A/G | 122.305 | BLACKBUSHE RADIO
LIGHTING
THR 07/25 | Hl green W bars.
RWY 07/25 | Hl edge. End lights red.
TWY | Blue edge from RWY to holds A2, C1, D & E1. Guard lights at holds A1, C1, D & E1.
GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC. ELEVATIONS ARE IN FEET.
OBSTACLE ELEVATIONS IN FEET AMSL 325
OBSTACLE HEIGHTS IN FEET ABOVE AD (0)
SCALE 1 : 7500 @ A4
50 0 50 100 150 200 250 m
250 0 250 500 750 ft
VAR 1.1°E - 2027
N
Annual Rate of Change 0.17°E
Rwy 25 Thr Elev 324
511931.40N 0005027.69W
(GUND Elevation 151)
BLK 328
511923.84N 0005041.26W
Rwy 07 Thr Elev 322
511921.18N 0005116.63W
(GUND Elevation 151)
1285 x 46m
250°M
070°M
PAPI (3.1°) MEHT 20
PAPI (3.1°) MEHT 20
Twy A
Twy C
Twy D
Twy E
Twy F
Twy G
Twy H
Terminal Apron
Apron Bravo
Parking (Grass)
Parking (Grass)
Parking (Grass)
Car Park
Terminal Building
Control Tower
Flashing White
HTA 1
HTA 2
Hangars W1-W6
Disused
A1
A2
C1
C2
C3
D
E1
E2
F
G
H
W
CHANGE (10/25): EDITORIAL. MAG INFO.
AERO INFO DATE 18 JUL 25
AD 2-EGLK-2-1


BLACKBUSHE
EGLK
AD ELEV 325 ft
ARP 511926N 0005051W
AIRCRAFT PARKING/DOCKING CHART - ICAO
VAR 1.1°E - 2027
Annual Rate of Change 0.17°E
RUNWAY/APRON/TAXIWAY PHYSICAL CHARACTERISTICS
RWY/ APRON / TWY | SURFACE | PCN | ELEVATION
RWY 07/25 | Asphalt | - | -
Terminal Apron | Asphalt | - | -
TWY A, C, D, E, F, G, H | Asphalt | - | -
STAND | COORDINATES
1 | 511922.84N 0005022.44W
2 | 511923.71N 0005022.76W
3 | 511924.51N 0005022.80W
4 | 511923.47N 0005020.57W
5 | 511924.05N 0005020.50W
6 | 511924.63N 0005020.52W
7 | 511925.21N 0005020.45W
8 | 511925.79N 0005020.38W
9 | 511926.37N 0005020.30W
H1 | 511926.43N 0005025.48W
H2 | 511926.98N 0005025.67W
H3 | 511926.28N 0005024.24W
H4 | 511926.94N 0005024.61W
H5 | 511926.43N 0005023.10W
COM
AFIS | 122.305 | BLACKBUSHE INFO
A/G | 122.305 | BLACKBUSHE RADIO
LIGHTING
THR 07/25 | Hl green W bars.
RWY 07/25 | Hl edge. End lights red.
TWY | Blue edge from RWY to holds A2, C1, D & E1. Guard Lights at holds A1, C1, D & E1.
Terminal Building
Control Tower
Terminal Apron
Car Park
Parking (Grass)
Visitor Parking (Grass)
Fuel (100LL)
Fuel (UL91)
Fire Station
Apron
Apron Bravo
Disused
Twy A
Twy C
Twy E
Twy G
Twy H
SCALE 1 : 2000 @ A4
CHANGE (10/25): EDITORIAL, MAG INFO.
AERO INFO DATE 18 JUL 25
AD 2-EGLK-2-2

EGNH — BLACKPOOL

EGNH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNH — BLACKPOOL

EGNH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 534618N Long: 0030143W Mid point of Runway 10/28.
2	Direction and distance from city	2.6 NM SSE of Blackpool.
3	Elevation / Reference temperature / Mean Low Temperature	34 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	172 FT
5	Magnetic Variation / Annual Change	0.76°W (2022) / 0.21°E
6	AD Administration Address Telephone E-mail address	BLACKPOOL AIRPORT OPERATIONS LTD. Blackpool Airport, Squires Gate Lane, Blackpool, Lancashire, FY4 2QY. 01253-342734 (ATC - option 4) 01253-472527 (ATC) 01253-407070 (Airport Authorised Handling Agent - Hangar 3) blkhandling@hangar3blackpool.com (Airport Authorised Handling Agent - Hangar 3)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGNH AD 2.3 OPERATIONAL HOURS

1	AD Administration	0700-2100 (0600-2000) and by arrangement.
2	Customs and immigration	0700-2100 (0600-2000) subject to 24 hours notice. Mandatory handling for flights originating outside the UK FIR (including N Ireland).
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD Hours.
8	Fuelling	As AD hours.
9	Handling	As AD hours. OOH avaliable subject to operational limitations, contact handling agent, see AD 2.2-6.
10	Security	H24
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGNH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL AD80, AD100, W80, W100, 100
3	Fuelling facilities/capacity	Jet A1 bowser 17,000 LT capacity.
4	De-icing facilities	Limited self-service de-icing, contact the handling agent, see AD 2.2-6.
5	Hangar space for visiting aircraft	Limited overnight hangarage up to 10,000 KG MTOW, contact handling agent, see AD 2.2-6.
6	Repair facilities for visiting aircraft	By arrangement only. B1 and B2 licensed engineers available, contact handling agent, see AD 2.2-6.

7	Remarks	Mandatory handling for aircraft >3000 KG. Airport Appointed and Authorised Handling Agent: Hangar 3 Blackpool Ltd. GPU and lavatory services available. For contact details see AD 2.2-6. AVGAS refuelling for helicopters without wheels is available, pre-note ATC via PPR.

EGNH AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels at Airport and within 1 mile. Discount accommodation rates available, contact handling agent, see AD 2.2-6.
2	Restaurants	Large choice in the local area.
3	Transportation	Taxis, Buses. Nearest railway station Squires Gate 0.2 NM. VIP road transfers and helicopter transfers available, contact handling agent, see AD 2.2-6.
4	Medical facilities	First aid available.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGNH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4 RFF Category A5 accepted under remission. RFF Category A6 available but subject to minimum 24 hours notice and availability of category upgrade; handling requests to handling@blackpoolairport.com or blkhandling@hangar3blackpool.com if handled by Airport Authorised Handling Agent (Hangar 3).
2	Rescue equipment	
3	Capability for removal of disabled aircraft	15,270 KG. Contact 0844-4827171.
4	Remarks	

EGNH AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical De-icing.
2	Clearance priorities	NHV Helipad 1 and 2 - Taxiway Alpha - Runway 10/28 - other taxiways as necessary.
3	Remarks	Latest information from: ATC 01253-472527.

EGNH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt PCN 25/F/A/W/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 18 M Surface: Asphalt PCN 33/F/A/W/T Taxiway BRAVO: 15 M Surface: Asphalt PCN 14/F/A/W/T Taxiway CHARLIE: 15 M Surface: Asphalt PCN 14/F/A/W/T Taxiway DELTA: 15 M Surface: Asphalt PCN 14/F/A/W/T

		Taxiway ECHO: 15 M Surface: Asphalt PCN 14/F/A/W/T
3	Altimeter checkpoint location and elevation	Apron 33 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking chart.
6	Remarks	

EGNH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Aircraft >3000 KG to be parked under the instruction of a marshaller. Marshaller guidance also available on request.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 10/28: Runway designation, runway threshold markings, centre-lines, Runway 28 TDZs. Runway light(s): Runway 28 yellow caution zone lighting. Taxiway light(s): Edge and centre-line lighting, blue edge lighting on Taxiway Alpha via the main Apron to B3 and Taxiway Echo south of Taxiway Charlie. Green centre-line lighting on Taxiway Echo north of Taxiway Charlie. Additionally reflective edge and centre-line markers are installed between B3 and B4 and on the eastern section of Taxiway Charlie (between Bravo and Echo).
3	Stop bars and runway guard lights (if any)	Runway guard lights at A3, C1, D2, E2.
4	Other runway protection measures	
5	Remarks	At night-time taxiways with reflective markers may be used by aircraft which have a serviceable taxi or landing light which must be illuminated. It is the pilot's responsibility to refuse taxi clearance via these routes at night if not so equipped. Taxiways without powered lighting will not be used in either visibility or RVR of 1500 M or less. 2 X WDI: 534612.67N 0030110.16W (LGTD), 534627.70N 0030220.42W (LGTD).

EGNH AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNH9714) 10/APPROACH 28/ TAKE-OFF	STREETLIGHT	534624.67N 0030308.50W	56 FT	33 FT	No	
(EGNH9713) 10/APPROACH 28/ TAKE-OFF	STREETLIGHT	534623.60N 0030307.15W	59 FT	36 FT	No	
(EGNH8773) 10/APPROACH 28/ TAKE-OFF	CONTROL BOX	534621.90N 0030248.03W	34 FT	5 FT	No	
(EGNH9711) 10/APPROACH 28/ TAKE-OFF	STREETLIGHT	534621.29N 0030305.83W	55 FT	33 FT	No	
(EGNH9709) 10/APPROACH 28/ TAKE-OFF	STREETLIGHT	534619.02N 0030304.47W	58 FT	36 FT	No	
(EGNH9708) 10/APPROACH 28/ TAKE-OFF	STREETLIGHT	534617.77N 0030304.46W	55 FT	34 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNH8848)	MAST	534946.57N 0024948.65W	654 FT	602 FT	Yes Red	
(EGNH6333)	BLACKPOOLTOWER	534857.27N 0030318.79W	534 FT	498 FT	Yes Red	
(EGNH8494)	COMMS MAST	534832.45N 0030301.04W	224 FT	207 FT	No	
(EGNH9471)	MAST LC	534740.63N 0025948.87W	286 FT	248 FT	No	
(EGNH9521)	HV PYLON	534735.96N 0025825.06W	187 FT	151 FT	No	
(EGNH6317)	RIDE	534720.23N 0030326.12W	242 FT	224 FT	Yes Red	
(EGNH9232)	ANTENNA	534608.12N 0030052.69W	80 FT	51 FT	No	
	CRANE	534545.07N 0030012.92W	100 FT	88 FT	Yes Red	Expected duration Dec 2025.

EGNH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing facilities available, contact Security for details.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	METFORM 214-215, H24 MSLP Forecast, EUR SIG WX, Upperwind/Temps, AIRMET Southern, AIRMET Northern, AIRMET Scottish.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	BLACKPOOL
10	Additional information (limitation of service, etc.)	

EGNH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
10	094.63°	1868 x 45 M	RWY surface: Asphalt, Grooved PCN 33/F/A/W/T	534620.06N 0030233.67W 171.6 FT	THR 31.8 FT	
28	274.66°	1868 x 45 M	RWY surface: Asphalt, Grooved PCN 33/F/A/W/T	534615.16N 0030051.98W 171.5 FT	THR 28.0 FT TDZ 29.1 FT	
13	127.30°	998 x 24 M	RWY surface: Asphalt PCN 14/F/A/W/T	534625.45N 0030231.30W 171.6 FT	THR 32.1 FT	
31	307.31°	998 x 24 M	RWY surface: Asphalt PCN 14/F/A/W/T	534608.74N 0030154.29W 171.6 FT	THR 31.1 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	302 x 150 M	1988 x 280 M	90 x 92 M -			RWY 10
	261 x 150 M	1988 x 280 M	90 x 92 M -			RWY 28 OFZ: Yes.
	79 x 150 M	1090 x 80 M	90 x 46 M -			RWY 13 Threshold displaced by 146 M. The runway edges are delineated by side-stripe markings.
		1090 x 80 M	90 x 46 M -			RWY 31 The runway edges are delineated by side-stripe markings. The Threshold/start of TORA for Runway 31 is inset 73 M from the start of the hardstanding, marked with standard start of runway markings.

EGNH AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
10	1868 M	2170 M	1868 M	1868 M	
28	1868 M	2129 M	1868 M	1868 M	
10	1452 M	1754 M	1452 M		Take-off from intersection of Taxiway Delta.
10	1017 M	1319 M	1017 M		Take-off from intersection of Taxiway Echo.
28	866 M	1127 M	866 M		Take-off from intersection of Taxiway Echo.
13	998 M	1077 M	998 M	852 M	
31	852 M	852 M	970 M	970 M	ASDA/LDA ends 24 M before end of pavement.

EGNH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
10	Centre-line with one crossbar. 300 M Light intensity high	Green Light intensity high Bi-directional with green wingbars	PAPI /3° 55 FT 330 M			HI Elev bi-directional with LI omni-directional component	Red		
28	Centre-line with three crossbars. 450 M Light intensity high	Green Light intensity high Elev bi-directional with green wingbars	PAPI /3° 55 FT 320 M			HI Elev bi-directional with LI omni-directional component Yellow Caution Zone lights	Red		

EGNH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 534629.03N 0030216.13W (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes/14 seconds.
5	Remarks	Limited apron floodlighting.

EGNH AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGNH AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BLACKPOOL ATZ A circle, 2.5 NM radius, centred at 534618N 0030143W on longest notified runway (10/28)	Upper limit: 2000 FT AGL Lower limit: SFC	G	BLACKPOOL APPROACH/ TOWER English	3000 FT		

EGNH AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	BLACKPOOL APPROACH/ TOWER	119.955 DOC 40 NM/ 10,000 FT.			0700-2100 (0600-2000) and by arrangement.	ATZ hours coincident with Approach hours. VDF 534627.55N 0030217.78W Height 39 FT On AD.
TWR	BLACKPOOL TOWER	118.405 DOC 25 NM/4000 FT.			When instructed by ATC.	VDF 534627.55N 0030217.78W Height 39 FT On AD.
ATIS	BLACKPOOL INFORMATION	127.205 DOC 60 NM/ 20,000 FT.			0700-2100 (0600-2000) and by arrangement.	ATIS also available by telephone externally on 01253-472555 or internally on extension 8315.
OTHER	BLACKPOOL FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.13°E (2027)	IBPL	108.150 MHz	0700-2100 (0600-2000)	534620.77N 0030248.35W		(RWY 28)

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/GP	IBPL	334.550 MHz	0700-2100 (0600-2000)	534611.73N 0030107.74W		3° ILS Ref Datum Hgt 55 FT.
DME	IBPL	18Y 108.150 MHz	H24	534612.93N 0030142.36W	46 FT	(RWY 28) On AD. DME freq paired with ILS I-BPL. Zero range is indicated at THR of Runway 28 and 10.
NDB (L) 0.14°E (2027)	BPL	318.000 kHz	0700-2100 (0600-2000)	534623.35N 0030140.59W		On AD. Range 15 NM.

EGNH AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) The aerodrome is PPR for all aircraft movements. Prior permission must be obtained from ATC; this may be requested by:

- Arranging directly with ATC by telephone;
- Submitting a PPR form online https://www.blackpoolairport.com/ppr/; or
- Arranging through a based operator/handling agent.

Note: *Filing a flight plan does not constitute a PPR request.*

b) Aircraft using Blackpool Airport are recommended to carry third party insurance cover of not less than £5,000,000.
c) Aircraft using Blackpool Airport do so in accordance with Blackpool Airport Terms and Conditions, a copy of which is available on application.
d) All movements outside published hours and amendments to these must be notified to ATC and RFFS in advance, prior to 2100 (2000) on the day of operation.
e) Parachuting is not permitted at Blackpool aerodrome.
f) The wearing of high visibility clothing is mandatory for all personnel operating on the apron and manoeuvring areas, including flight crew.
g) Diversion procedure: All operators are advised that before filing Blackpool as an alternate, they are required to have made arrangements for ground handling; this arrangement is subject to the agreement of the Airport Management. Nothing in this procedure shall, however, prevent an aircraft that has declared an emergency from landing.
h) Mandatory handling is required for all aircraft >3000 KG. Handling requests to be submitted to handling agent, see AD 2.2-6.
i) Any inbound aircraft requiring fuel are requested to advise ATC before landing.

2 GROUND MOVEMENT

a) When requesting start-up, pilots should give the full callsign, type and location. Aircraft must be ready in all respects to start before calling on the appropriate frequency.
b) If within 30 minutes of a previously issued CTOT the flight is unable to comply with that CTOT, the pilot should advise Blackpool ATC (via the handling agent if needed) as soon as possible.
c) Parking for visiting aircraft is provided on the Main Apron. The northern extremity of the parking area is bounded by a 2 M high fence, marshaller assistance is available if requested by pilot. Additional parking available on Stand 1 or with based executive handling agencies.
d) Taxiing and parking on grass areas prohibited.
e) AVGAS pumps are located to the western side of the main apron; aircraft should approach the pumps so that they are facing south, on the eastern side of the fuel farm.
f) Authorised vehicles operate between holding point B3 and the Main Apron without ATC clearance.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) **Potential for misidentification.** Warton Aerodrome is approximately 6 miles to the South East of Blackpool Airport and has a similar layout. The approach paths for the two main instrument runways at Warton (RWY 25) and Blackpool (RWY 28) cross each other approximately 8 NM from Blackpool and 3 NM from Warton. All pilots are reminded to exercise caution as misidentification is common. Ensure you have the correct Aerodrome in sight before committing to your approach. A video providing additional information can be accessed at https://www.youtube.com/watch?v=CQC7JnwdY8.
b) Damage to the grass areas to the edge of paved surfaces caused by rabbits.
c) Pink Foot Goose activity is present in the vicinity of Blackpool from September to April. Skeins range from 10 to 500 birds but can be in significantly larger quantities. Most activity takes place in daylight but the birds may be present at any time of day or night up to 2,000

AMSL. Route is generally North-South or South-North anywhere up to 4 KM East of the aerodrome. Goose activity affects Runway 10 climbout/28 approach and potentially 13 climbout/31 approach. ATC will normally attempt to pass warnings of detected birds.

d) Intermittent transiting Gulls crossing Runway 28 North to South and South to North from midpoint to 28 approach are possible all year round, but are most likely from April to September. Bird control is on site 7 days per week to deal with this potential hazard. Thermalling Gulls are sometimes present above an established nesting site 1000 M due North of the ARP April to September. These Gulls thermal above the site to various heights in hot weather or when disturbed by helicopters. The thermalling activity usually remains outside the approach to any of the runways currently in use. It may infringe on GA circuits or low level helicopter traffic transiting directly over this area.
e) Large flocks of Starlings may be encountered in the vicinity of the airport especially to the East and North West but are controlled to the point where only smaller flocks of 1 to 50 are encountered on the airfield itself. These birds are controlled by bird patrols and grass management. Peak period is around May.
f) Pilots, especially rotary wing, should, where possible, avoid overflying a liquid petroleum gas storage facility located at 534643N 0030126W (022 degrees True range 850 M from ARP).
g) Category A Police and Air Ambulance flights can take place at the aerodrome H24. Pilots should afford these flight priority where possible subject to the Rules of the Air Regulations and flight safety.
h) Non standard helicopter landing lighting installed adjacent to H North (SW of Control Tower), this system is strictly reserved for emergency service helicopter operations outside normal aerodrome hours.

5 HELICOPTER OPERATIONS

a) Three helicopter aiming points in the grass areas marked with an 'H':

i. H NORTH - 534631.4183N 0030226.2817W (Approx. 160 M South West of the ATC Tower);
ii. H EAST - 534632.7491N 0030211.7586W (Approx. 160 M South East of the ATC Tower, light helicopters maximum 2.6 Tonnes);
iii. H SOUTH - 534611.0326N 0030208.3570W (Approx. 355 M South of Holding Point D2).

b) Procedures

i. Air taxiing on apron areas is not permitted except with authorisation from ATC. Marshaller available on request.
ii. All training must be booked through ATC. The filing of a flight plan does not constitute compliance.

6 USE OF RUNWAYS

a) Runways 13/31 are not available for use during night time hours. Available for Daylight use only.
b) Right hand circuits are in force for Runways 28 and 31.
c) Unless an AOC holder has less restrictive minima, take-offs in RVR less than 400 M will not be permitted as Runway 10/28 is not equipped with centre-line lighting.

7 TRAINING

a) All instrument training must be booked through ATC. The filing of a flight plan does not constitute compliance.

EGNH AD 2.21 NOISE ABATEMENT PROCEDURES

a) All aircraft are to be operated in such a manner as to cause the least possible disturbance to surrounding residential areas.
b) Every operator of turbo-jet/turbo-fan aircraft shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
c) The following noise routeings shall apply to departing turbo-jet/turbo-fan aircraft:

i. Runways 10 and 28 - Climb straight ahead to at least 1500 FT AMSL before turning onto course;
ii. Runway 13/31 is NOT available for turbo-jet/turbo-fan engine aircraft except when weather conditions preclude the use of Runway 10/28.

Note: *The above routeings are compatible with normal ATC practice. In individual cases they may be varied owing to operational circumstances. The use of the Noise Preferential Routeings specified above is supplementary to the noise abatement take-off techniques detailed in Operations Manuals.*

d) These requirements may at any time be departed from to the extent necessary for avoiding immediate danger.

EGNH AD 2.22 FLIGHT PROCEDURES

1 IFR ROUTINGS

- Inbound from N864: via WAL
- Inbound from DTY CTA: Via POL
- Inbound from Scottish TMA: Via DCS
- Outbound to N864: Via ESTRY WAL
- Outbound to DTY CTA: Via ESTRY WAL
- Outbound to Scottish TMA: Via RIBEL/GASKO

2 INSTRUMENT APPROACH PROCEDURES

Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

3 VISUAL REFERENCE POINTS (VRP)

a) Pilots approaching Blackpool from a southerly direction under VFR must always contact Warton LARS 129.530 MHz in the first instance during their notified hours of operation.
b) During the notified hours of Warton Radar, VFR traffic departing Blackpool in a southerly direction should anticipate departure instructions to route via St Anne's Pier, then Southport Pier, not above altitude 1,500 FT AMSL until clear of Warton MATZ.
c) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGNH AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNH AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNH-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGNH-2-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 10 - ICAO
AD 2.EGNH-8-1
INSTRUMENT APPROACH CHART NDB(L) RWY 10 - ICAO
AD 2.EGNH-8-2
INSTRUMENT APPROACH CHART ILS/DME RWY 28 - ICAO
AD 2.EGNH-8-3
INSTRUMENT APPROACH CHART LOC/DME RWY 28 - ICAO
AD 2.EGNH-8-4
INSTRUMENT APPROACH CHART RNP RWY 28 - ICAO
AD 2.EGNH-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 28 - ICAO
AD 2.EGNH-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 28
AD 2.EGNH-8-7

EGNH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

BLACKPOOL EGNH

AERODROME CHART - ICAO

ARP 534618N 0030143W

AD ELEV 34FT

COM		
ATIS	127.205	BLACKPOOL INFORMATION
TWR	119.955 (TWR/APP)	BLACKPOOL TOWER
	121.600	BLACKPOOL FIRE

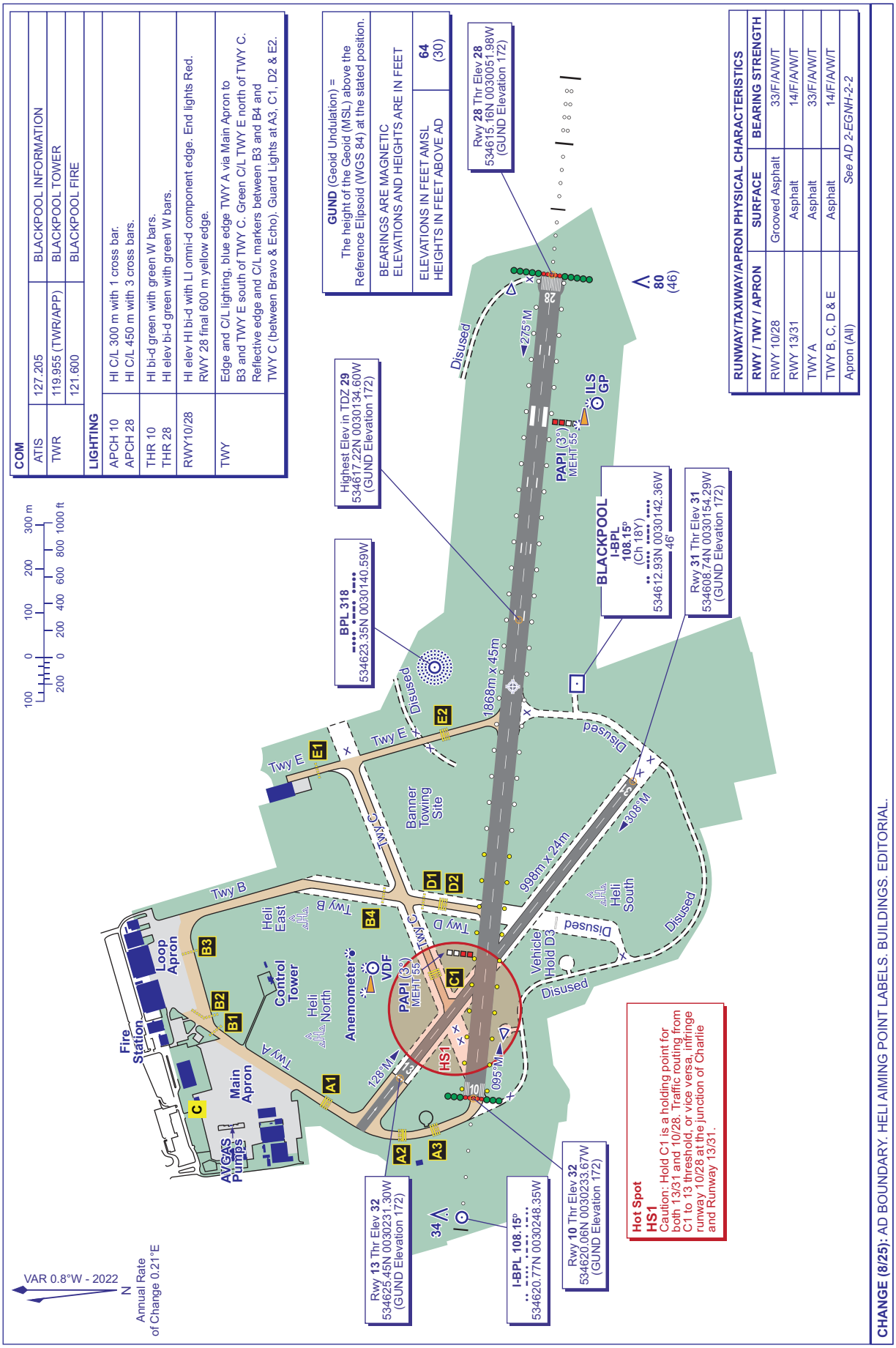
LIGHTING	
APCH 10 APCH 28	HI C/L 300 m with 1 cross bar. HI C/L 450 m with 3 cross bars.
THR 10 THR 28	HI bi-d green with green W bars. HI elev bi-d green with green W bars.
RWY10/28	HI elev HI bi-d with LI omni-d component edge. End lights Red. RWY 28 final 600 m yellow edge.
TWY	Edge and C/L lighting, blue edge TWY A via Main Apron to B3 and TWY E south of TWY C. Green C/L TWY E north of TWY C. Reflective edge and C/L markers between B3 and B4 and TWY C (between Bravo & Echo). Guard Lights at A3, C1, D2 & E2.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL — 64
HEIGHTS IN FEET ABOVE AD — (30)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	BEARING STRENGTH
RWY 10/28	Grooved Asphalt	33/F/A/W/T
RWY 13/31	Asphalt	14/F/A/W/T
TWY A	Asphalt	33/F/A/W/T
TWY B, C, D & E	Asphalt	14/F/A/W/T
Apron (All)	*See AD 2-EGNH-2-2*	



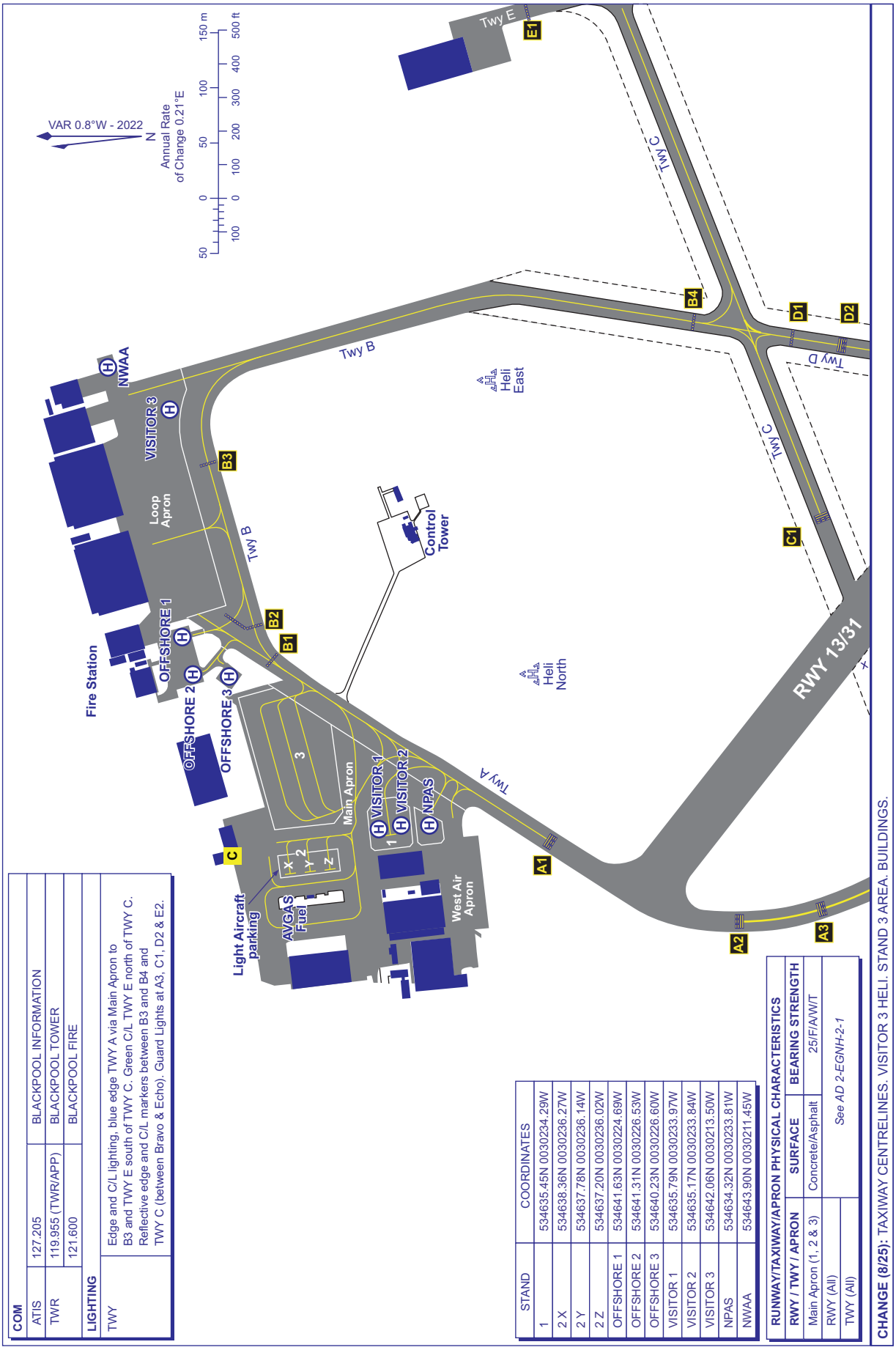
CHANGE (8/25): AD BOUNDARY. HELI AIMING POINT LABELS. BUILDINGS. EDITORIAL.

BLACKPOOL EGNH

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 534618N 0030143W

AD ELEV 34FT



COM		
ATIS	127.205	BLACKPOOL INFORMATION
TWR	119.955 (TWR/APP)	BLACKPOOL TOWER
	121.600	BLACKPOOL FIRE
LIGHTING		
TWY	Edge and C/L lighting, blue edge TWY A via Main Apron to B3 and TWY E south of TWY C. Green C/L TWY E north of TWY C. Reflective edge and C/L markers between B3 and B4 and TWY C (between Bravo & Echo). Guard Lights at A3, C1, D2 & E2.	

STAND	COORDINATES
1	534635.45N 0030234.29W
2 X	534638.36N 0030236.27W
2 Y	534637.78N 0030236.14W
2 Z	534637.20N 0030236.02W
OFFSHORE 1	534641.63N 0030224.69W
OFFSHORE 2	534641.31N 0030226.53W
OFFSHORE 3	534640.23N 0030226.60W
VISITOR 1	534635.79N 0030233.97W
VISITOR 2	534635.17N 0030233.84W
VISITOR 3	534642.06N 0030213.50W
NPAS	534634.32N 0030233.81W
NWAA	534643.90N 0030211.45W

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**BEARING STRENGTH**
Main Apron (1, 2 & 3)	Concrete/Asphalt	25/F/A/W/T
RWY (All)	*See AD 2-EGNH-2-1*	
TWY (All)		

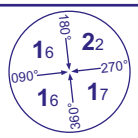
CHANGE (8/25): TAXIWAY CENTRELINES. VISITOR 3 HELI. STAND 3 AREA. BUILDINGS.

AERO INFO DATE 02 JUN 25

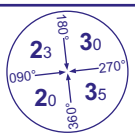
INSTRUMENT APPROACH CHART - ICAO

BLACKPOOL NDB(L)/DME RWY 10

(ACFT CAT A,B,C,D)



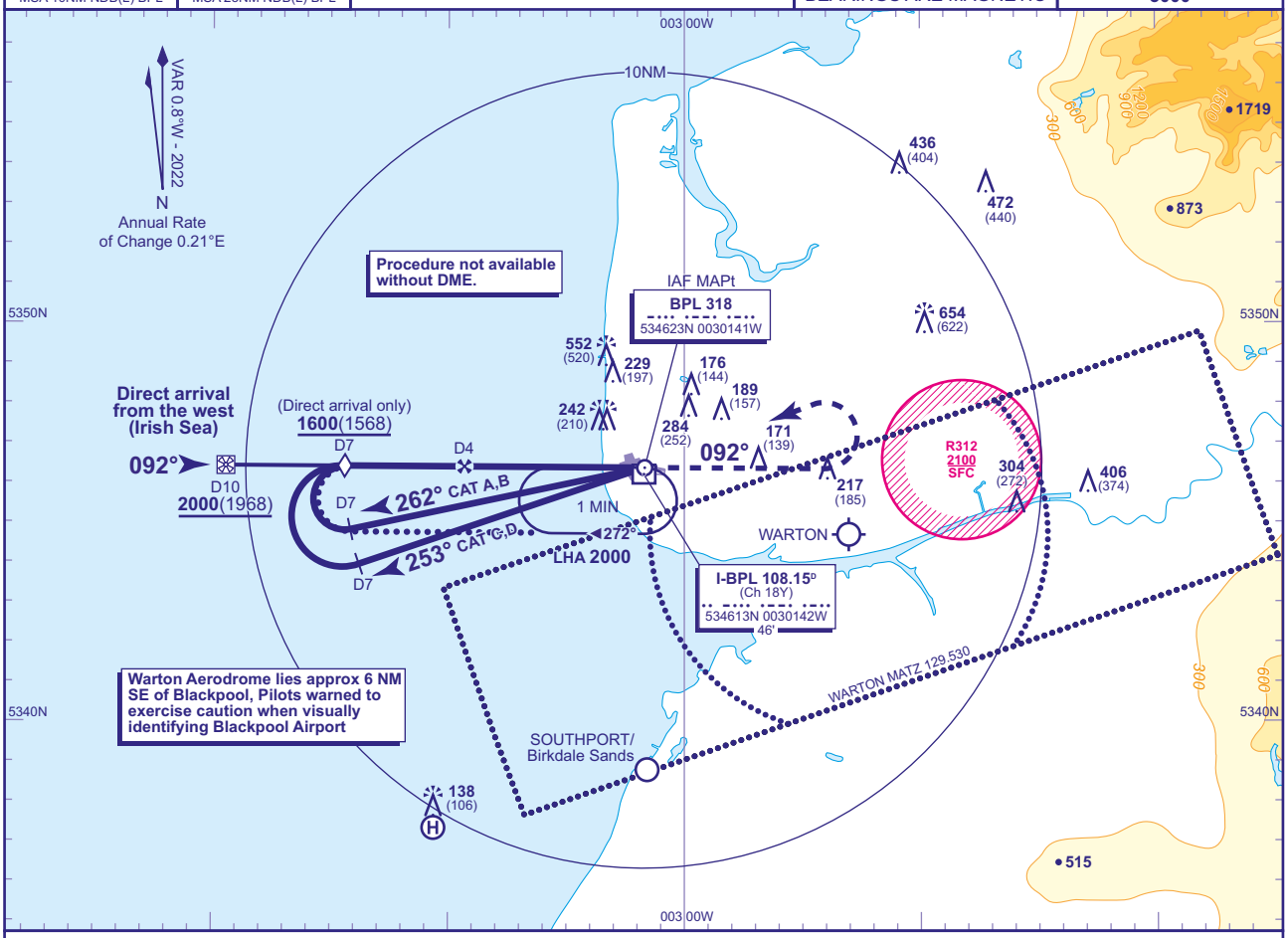
MSA 10NM NDB(L) BPL



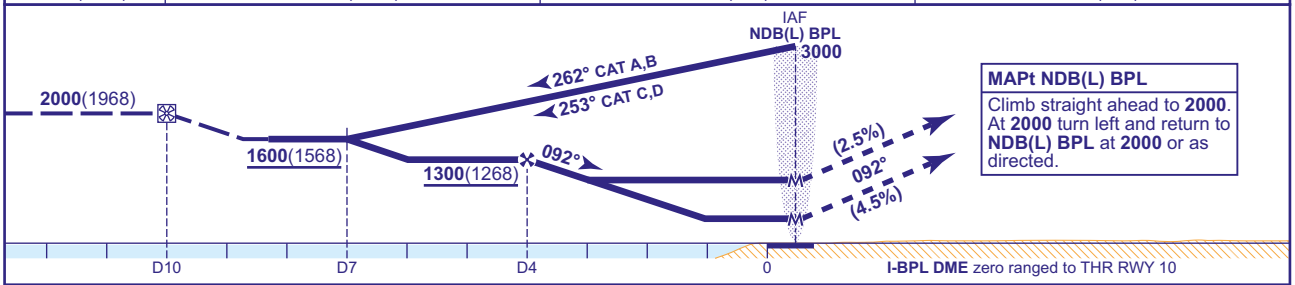
MSA 25NM NDB(L) BPL

APP	119.955	BLACKPOOL APPROACH	AD ELEVATION	34	
TWR	119.955	BLACKPOOL TOWER	THR ELEVATION	32	
ATIS	127.205	BLACKPOOL INFORMATION	OBSTACLE ELEVATION	654 AMSL (622) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5%, 300FT/NM			
DME I-BPL	4	3	2
ALT(HGT)	**1300**(1268)	**1000**(968)	**700**(668)



Aircraft Category		A	B	C	D
OCA(OCH) Climb Gradients	4.5%	**410**(378)	**410**(378)	**410**(378)	**410**(378)
	3.5%	**700**(668)	**700**(668)	**700**(668)	**700**(668)
	3.0%	**850**(818)	**850**(818)	**850**(818)	**850**(818)
	2.5%	**1000**(968)	**1000**(968)	**1000**(968)	**1000**(968)
VM(C)OCA (OCH AAL)	Total Area	**580**(546)	**830**(796)	**930**(896)	**930**(896)
	South of RWY 10/28	**N/A**	**N/A**	**N/A**	**N/A**

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
From the NDB(L) BPL holding pattern at **3000** extend the outbound leg, descending to **not below 1600**(1568). At I-BPL DME 7 turn right, continuing decent as required, to establish on the extended FAT. When established continue as for main procedure.

DIRECT ARRIVAL FROM THE WEST (IRISH SEA)
When cleared by ATC, before I-BPL DME 15 inbound, fly DR track to intercept extended FAT (QDM 092°) at I-BPL DME 10 (IAF). Fly extended FAT inbound to cross I-BPL DME 7 **not below 1600**(1568). Descend to cross I-BPL DME 4 (FAF) **not below 1300**(1268) then continue as for main procedure.

NOTE 1 FAT offset 3.6° south of RWY C/L.
2 Lowest altitude to commence procedure from holding or missed approach is **2000**.
3 Aircraft not permitted below **1670** over EGR312 for the purpose of landing at Blackpool.

CHANGE (3/24): VM(C)OCA(OCH AAL) SOUTH OF RWY 10/28.

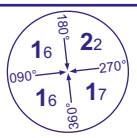
AERO INFO DATE 08 JAN 24

AD 2-EGNH-8-1

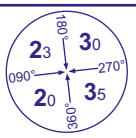
I

INSTRUMENT APPROACH CHART - ICAO

BLACKPOOL
NDB(L)
RWY 10
(ACFT CAT A,B,C,D)



MSA 10NM NDB(L) BPL

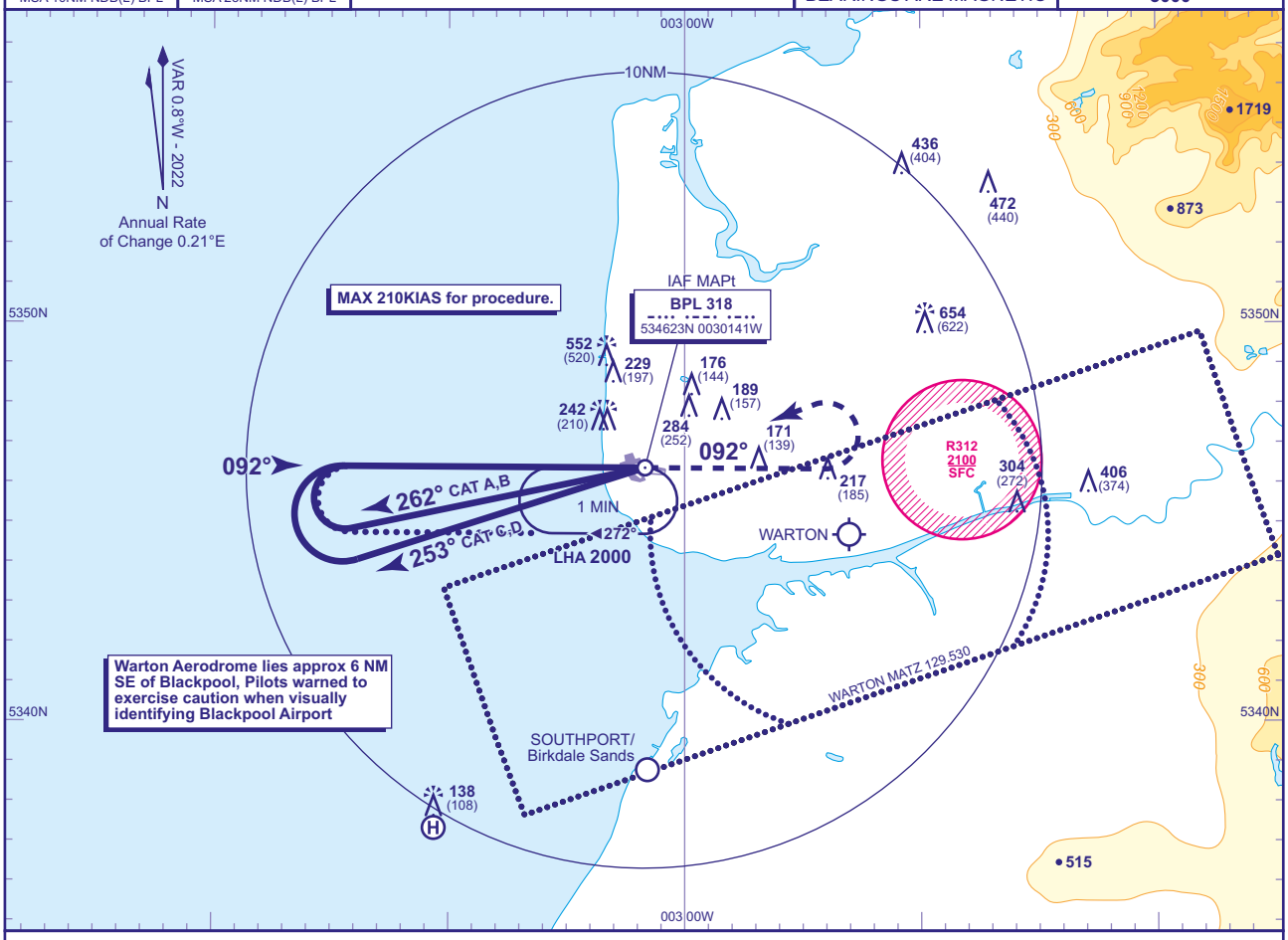


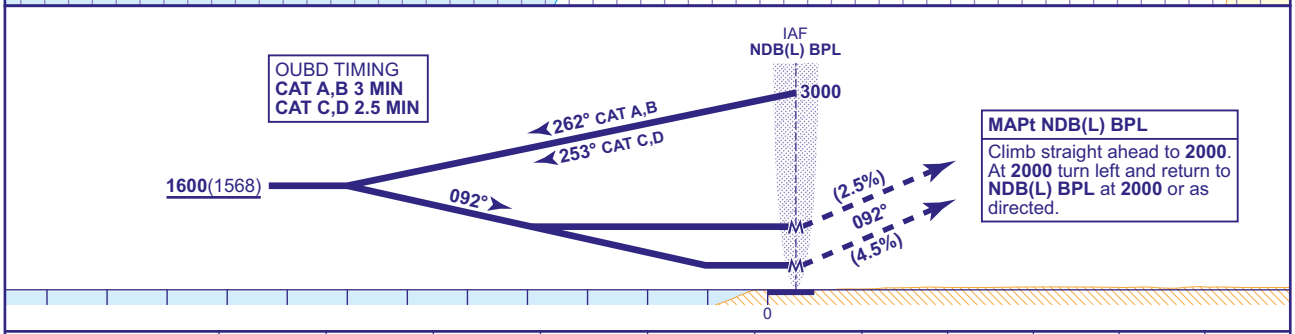
MSA 25NM NDB(L) BPL

APP	119.955	BLACKPOOL APPROACH
TWR	119.955	BLACKPOOL TOWER
ATIS	127.205	BLACKPOOL INFORMATION

AD ELEVATION	34
THR ELEVATION	32
OBSTACLE ELEVATION	654 AMSL (622) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**





Aircraft Category		A	B	C	D
OCA(OCH) Climb Gradients	4.5%	450(418)	450(418)	450(418)	450(418)
	3.5%	700(668)	700(668)	700(668)	700(668)
	3.0%	850(818)	850(818)	850(818)	850(818)
	2.5%	1000(968)	1000(968)	1000(968)	1000(968)
VM(C)OCA (OCH AAL)	Total Area	580(546)	830(796)	930(896)	930(896)
	South of RWY 10/28	N/A	N/A	N/A	N/A

Rate of descent						
CAT A,B	G/S KT	120	100	80	
	FT/MIN	510	510	510	
CAT C,D	G/S KT	180	160	140	120
	FT/MIN	610	610	610	610

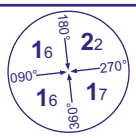
ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
From the NDB(L) BPL holding pattern at **3000** extend the outbound leg to 3 MIN (CAT A,B); 2.5 MIN (CAT C,D), descending to **not below 1600**(1568). Turn right, continuing decent as required, to establish on the extended FAT. When established continue as for main procedure.

NOTE 1 FAT offset 3.6° south of RWY C/L.
2 Lowest altitude to commence procedure from holding or missed approach is **2000**.
3 Aircraft not permitted below **1670** over EGR312 for the purpose of landing at Blackpool.

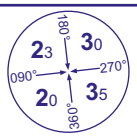
CHANGE (3/24): VM(C)OCA(OCH AAL) SOUTH OF RWY 10/28.

INSTRUMENT APPROACH CHART - ICAO

BLACKPOOL ILS/DME RWY 28
(ACFT CAT A,B,C,D)



MSA 10NM NDB(L) BPL

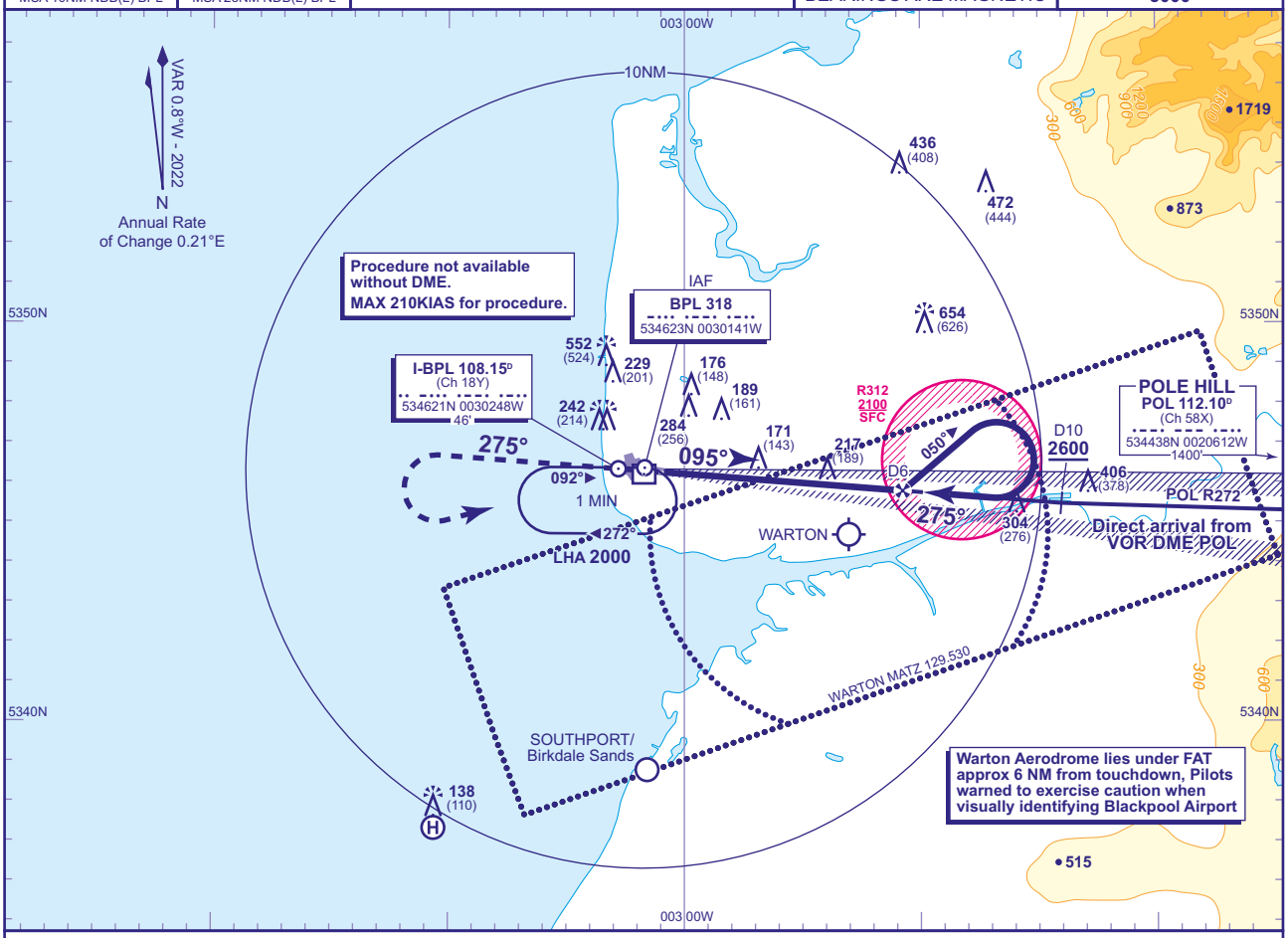


MSA 25NM NDB(L) BPL

APP	119.955	BLACKPOOL APPROACH	
TWR	119.955	BLACKPOOL TOWER	
ATIS	127.205	BLACKPOOL INFORMATION	

AD ELEVATION	34
THR ELEVATION	28
OBSTACLE ELEVATION 654 AMSL (626) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
3000



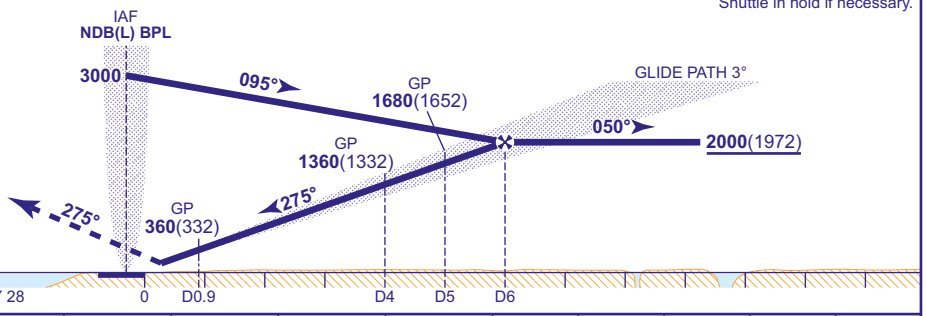
RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-BPL	5	4	3	2	1
ALT(HGT)	**1680**(1652)	**1360**(1332)	**1040**(1012)	**720**(692)	**400**(372)

RDH 55

Shuttle in hold if necessary.

Climb straight ahead to **2000**. At **2000** turn left and return to **NDB(L) BPL** at **2000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**171**(143)	**181**(153)	**193**(165)	**205**(177)
VM(C)OCA (OCH AAL)	Total Area	**580**(546)	**830**(796)	**930**(896)	**930**(896)
	South of RWY 10/28	**N/A**	**N/A**	**N/A**	**N/A**

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

DIRECT ARRIVAL FROM VOR DME POL
(Subject to ATC approval). Depart VOR DME POL on R272 and descend **not below 2600**. Request direct approach from ATC and continue descend **not below 2600** to intercept LOC inbound at I-BPL DME 10. When established continue **not below 2000**(1972) and continue as for main procedure.

NOTE 1 During reversal procedure, aircraft should not proceed beyond I-BPL DME 13.
2 This procedure has no outer marker. Warton outer marker (75Mhz) may be received in the final approach area at approximately I-BPL DME 9.
3 An incorrect MM indication may be received at I-BPL DME 6, due to intersection with Warton ILS.
4 Lowest altitude to commence procedure from holding or missed approach is **2000**.
5 Aircraft not permitted below **1670** over EGR312 for the purpose of landing at Blackpool.

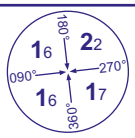
CHANGE (5/24): LOC I-BPL COORDINATES CORRECTED.

AERO INFO DATE 26 FEB 24

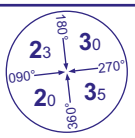
AD 2-EGNH-8-3

INSTRUMENT APPROACH CHART - ICAO

BLACKPOOL LOC/DME RWY 28
(ACFT CAT A,B,C,D)



MSA 10NM NDB(L) BPL

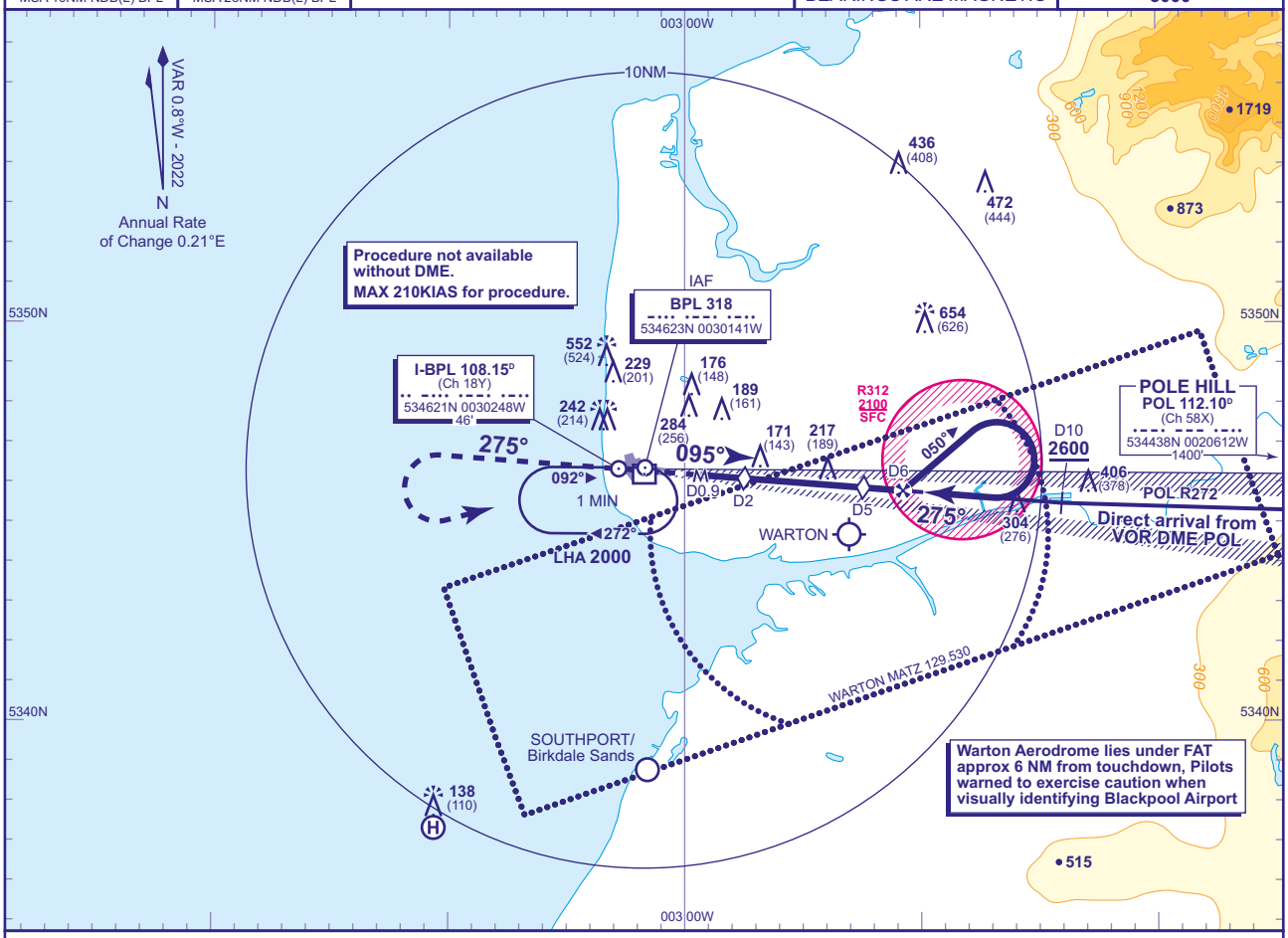


MSA 25NM NDB(L) BPL

APP	119.955	BLACKPOOL APPROACH	
TWR	119.955	BLACKPOOL TOWER	
ATIS	127.205	BLACKPOOL INFORMATION	

AD ELEVATION	**34**
THR ELEVATION	**28**
OBSTACLE ELEVATION	**654 AMSL** (626) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

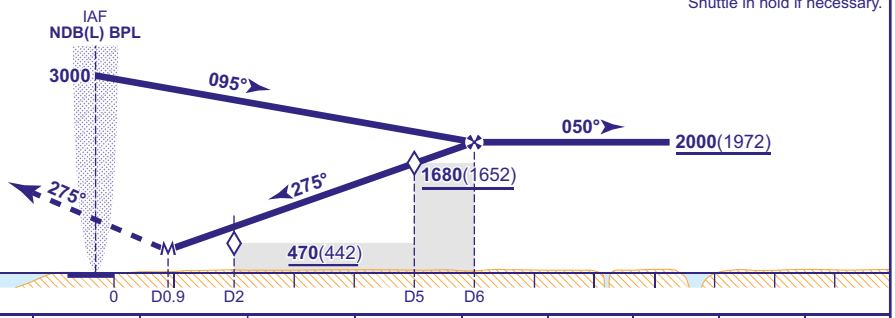


RECOMMENDED PROFILE Gradient 5.3%, 320FT/NM

DME I-BPL	5	4	3	2	1
ALT(HGT)	**1680**(1652)	**1360**(1332)	**1040**(1012)	**720**(692)	**400**(372)

Shuttle in hold if necessary.

MAPt I-BPL DME 0.9
Climb straight ahead to **2000**. At **2000** turn left and return to **NDB(L) BPL** at **2000** or as directed.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**400**(372)	**400**(372)	**400**(372)	**400**(372)
VM(C)OCA (OCH AAL)	**Total Area**	**580**(546)	**830**(796)	**930**(896)	**930**(896)
	South of RWY 10/28	**N/A**	**N/A**	**N/A**	**N/A**

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	750	640	530	430

DIRECT ARRIVAL FROM VOR DME POL
(Subject to ATC approval). Depart VOR DME POL on R272 and descend **not below 2600**. Request direct approach from ATC and continue descend **not below 2600** to intercept LOC inbound at I-BPL DME 10. When established continue **not below 2000**(1972) and continue as for main procedure.

NOTE 1 During reversal procedure, aircraft should not proceed beyond I-BPL DME 13.
2 This procedure has no outer marker. Warton outer marker (75Mhz) may be received in the final approach area at approximately I-BPL DME 9.
3 An incorrect MM indication may be received at I-BPL DME 6, due to intersection with Warton ILS.
4 Lowest altitude to commence procedure from holding or missed approach is **2000**.
5 Aircraft not permitted below **1670** over EGR312 for the purpose of landing at Blackpool.

CHANGE (5/24): LOC I-BPL COORDINATES CORRECTED.

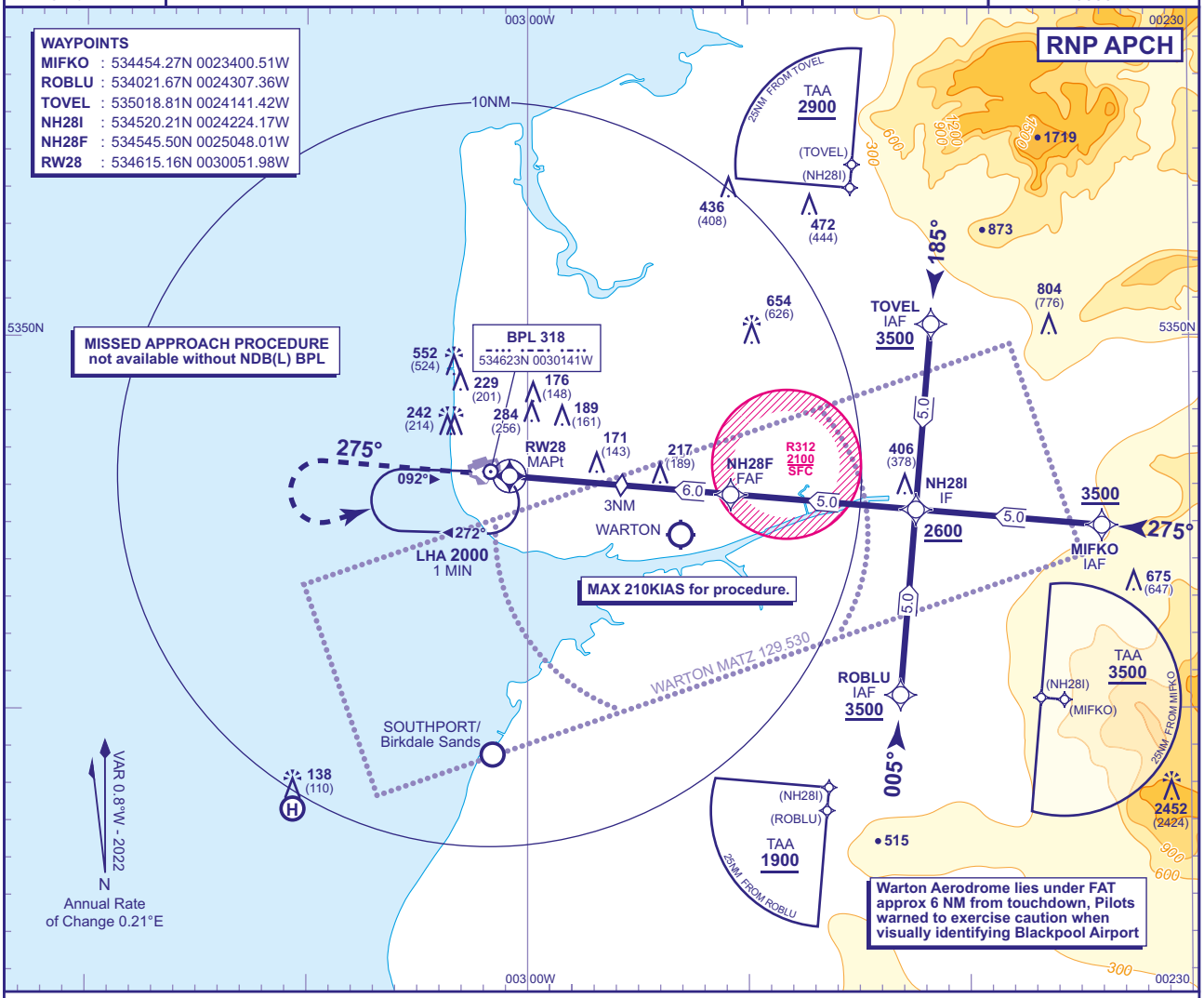
AERO INFO DATE 26 FEB 24 AD 2-EGNH-8-4

INSTRUMENT APPROACH CHART - ICAO

BLACKPOOL
RNP
RWY 28
(ACFT CAT A,B,C,D)

3.5 MSA 25NM ARP	APP	119.955	BLACKPOOL APPROACH	AD ELEVATION	34
	TWR	119.955	BLACKPOOL TOWER	THR ELEVATION	28
	ATIS	127.205	BLACKPOOL INFORMATION	OBSTACLE ELEVATION 2452 AMSL (2424) (ABOVE THR)	
				BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

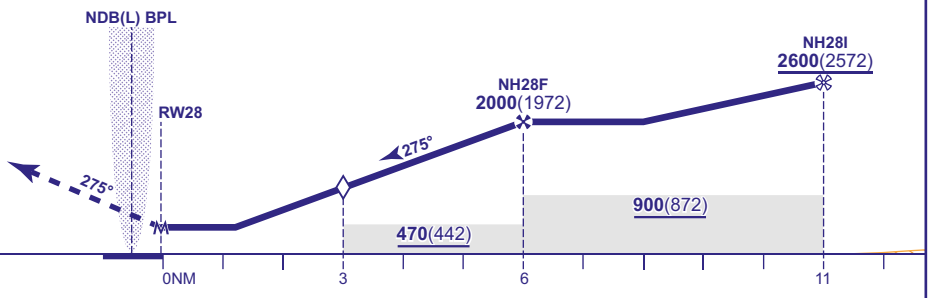


RECOMMENDED PROFILE Gradient 5.3%, 323FT/NM

NM to RW28	6	5	4	3(SDF)	2
ALT(HGT)	**2000**(1972)	**1680**(1652)	**1360**(1332)	**1040**(1012)	**720**(692)

MAPt (LNAV): RW28
(See Note 2)

Continuous climb to **2000**. Straight ahead until reaching **2000** then turn left to proceed to **NDB(L) BPL** at **2000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV	**420**(392)	**420**(392)	**420**(392)	**420**(392)
VM(C)OCA (OCH AAL)	Total Area	**580**(546)	**830**(796)	**930**(896)	**930**(896)
	South of RWY 10/28	N/A	N/A	N/A	N/A

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	861	746	640	533	426

NOTE 1 Aircraft not permitted below **1670** over EGR312 for the purpose of landing at Blackpool. Recommended profile **MANDATORY**.
2 Missed Approach Procedure shall be converted to a conventional Missed Approach upon reaching **2000**.

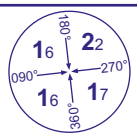
CHANGE (3/24): VM(C)OCA(OCH AAL) SOUTH OF RWY 10/28.

AERO INFO DATE 08 JAN 24

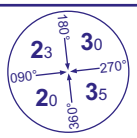
I

INSTRUMENT APPROACH CHART - ICAO

BLACKPOOL NDB(L)/DME RWY 28
(ACFT CAT A,B,C,D)



MSA 10NM NDB(L) BPL

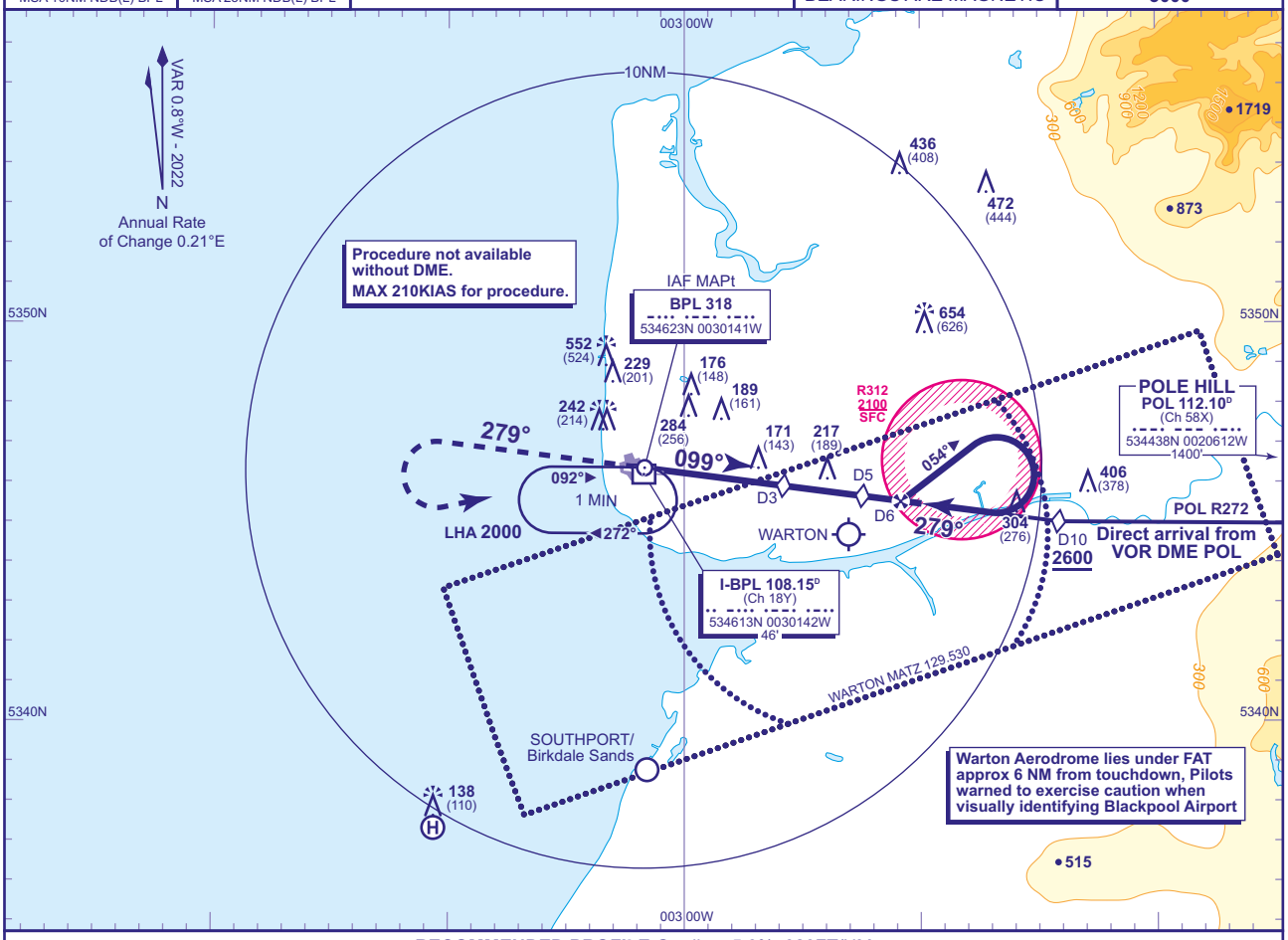


MSA 25NM NDB(L) BPL

APP	119.955	BLACKPOOL APPROACH	
TWR	119.955	BLACKPOOL TOWER	
ATIS	127.205	BLACKPOOL INFORMATION	

AD ELEVATION	34
THR ELEVATION	28
OBSTACLE ELEVATION	654 AMSL (626) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

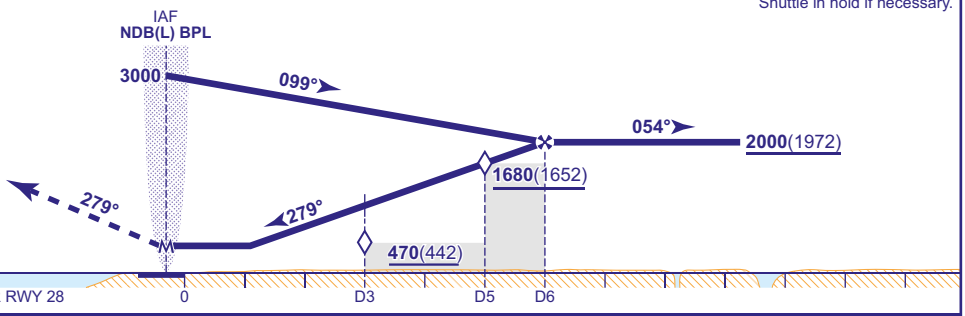


RECOMMENDED PROFILE Gradient 5.3%, 320FT/NM

DME I-BPL	5	4	3	2	1
ALT(HGT)	**1680**(1652)	**1360**(1332)	**1040**(1012)	**720**(692)	**400**(372)

Shuttle in hold if necessary.

MAPt NDB(L) BPL
Climb straight ahead to **2000**. At **2000** turn left and return to **NDB(L) BPL** at **2000** or as directed.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**430**(402)	**430**(402)	**430**(402)	**430**(402)
VM(C)OCA (OCH AAL)	**Total Area**	**580**(546)	**830**(796)	**930**(896)	**930**(896)
	South of RWY 10/28	**N/A**	**N/A**	**N/A**	**N/A**

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	750	640	530	430

DIRECT ARRIVAL FROM VOR DME POL
(Subject to ATC approval). Depart VOR DME POL on R272 and descend **not below 3000**. Request direct approach from ATC and continue descend **not below 2600** to intercept extended FAT (QDM 279°) at I-BPL DME 10. When established continue **not below 2000**(1972) and continue as for main procedure.

NOTE 1 During procedure turn, aircraft should not proceed beyond I-BPL DME 13.
2 FAT offset 3.3° south of RWY C/L.
3 Lowest altitude to commence procedure from holding or missed approach is **2000**.
4 Aircraft not permitted below **1670** over EGR312 for the purpose of landing at Blackpool.

CHANGE (3/24): VM(C)OCA(OCH AAL) SOUTH OF RWY 10/28.

AERO INFO DATE 08 JAN 24 AD 2-EGNH-8-6

Instrument Approach Procedure Coding Tables

Blackpool RNP RWY 28 - Instrument Approach Procedure via MIFKO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R28C	001	IF	MIFKO	-	-	-	3500	-	534454.27N 0023400.51W	IAF
R28C	002	TF	NH28I	-	275°M (274.65°T)	-	2600	210	534520.21N 0024224.17W	IF 11nm
R28C	003	TF	NH28F	-	275°M (274.65°T)	-	2000	210	534545.50N 0025048.01W	FAF 6nm
R28C	004	TF	RW28	Y	275°M (274.65°T)	-	-	-	534615.16N 0030051.98W	MAPt
R28C	005	CA	-	-	275°M (274.65°T)	-	2000	-	-	-

Blackpool RNP RWY 28 - Instrument Approach Procedure via ROBLU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R28L	001	IF	ROBLU	-	-	-	3500	-	534021.67N 0024307.36W	IAF
R28L	002	TF	NH28I	-	005°M (004.66°T)	LEFT	2600	210	534520.21N 0024224.17W	IF 11nm
R28L	003	TF	NH28F	-	275°M (274.65°T)	-	2000	210	534545.50N 0025048.01W	FAF 6nm
R28L	004	TF	RW28	Y	275°M (274.65°T)	-	-	-	534615.16N 0030051.98W	MAPt
R28L	005	CA	-	-	275°M (274.65°T)	-	2000	-	-	-

Blackpool RNP RWY 28 - Instrument Approach Procedure via TOVEL

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R28R	001	IF	TOVEL	-	-	-	3500	-	535018.81N 0024141.42W	IAF
R28R	002	TF	NH28I	-	185°M (184.66°T)	RIGHT	2600	210	534520.21N 0024224.17W	IF 11nm
R28R	003	TF	NH28F	-	275°M (274.65°T)	-	2000	210	534545.50N 0025048.01W	FAF 6nm
R28R	004	TF	RW28	Y	275°M (274.65°T)	-	-	-	534615.16N 0030051.98W	MAPt
R28R	005	CA	-	-	275°M (274.65°T)	-	2000	-	-	-

CHANGE (14/20): MAG TRACKS.
AERO INFO DATE 09 OCT 20

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EGHH — BOURNEMOUTH

EGHH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHH — BOURNEMOUTH

EGHH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 504648N Long: 0015033W Mid point of Runway 08/26.
2	Direction and distance from city	3.5 NM NNE of Bournemouth.
3	Elevation / Reference temperature / Mean Low Temperature	38 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	155 FT
5	Magnetic Variation / Annual Change	0.01°E (2022) / 0.20°E
6	AD Administration Address Telephone Web address	BOURNEMOUTH INTERNATIONAL AIRPORT LTD. Bournemouth International Airport, Christchurch, Dorset BH23 6SE. 01202-364170 (Airport Duty Manager) www.bournemouthairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGHH AD 2.3 OPERATIONAL HOURS

1	AD Administration	Oct-Mar 0800-2000 (0700-1900); Apr-Sep 0630-2130 (0530-2030). Outside of these hours, by prior arrangement. Contact the Aerodrome Duty Manager on 01202-364170. Refer to AD 2.20 item 1.
2	Customs and immigration	As AD hours.
3	Health and sanitation	As AD hours.
4	AIS Briefing Office	Not available.
5	ATS Reporting Office (ARO)	Not available.
6	MET Briefing Office	Not available.
7	ATS	As AD hours. See also AD 2.18. See also AD 2.20 para 4 Warnings.
8	Fuelling	0630-2130 (0530-2030) by arrangement with Bournemouth Airport Fuelling: Email: fuel@bournemouthairport.com Tel: 01202-364217 Fax: 01202-364219 Out of Hours by prior arrangement – subject to out of hours fees per hour or part thereof.
9	Handling	As AD hours.
10	Security	H24
11	De-icing	As AD hours.
12	Remarks	PPR for all aircraft. Refer to AD 2.20 item 1.

EGHH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full. By prior arrangement through Bournemouth Airport Handling. Nearest railway siding, Christchurch 3 NM.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	Mobile bowser supply of AVTUR JET A-1 / AVGAS 100LL on request with Bournemouth Airport Fuelling.
4	De-icing facilities	Available by arrangement through appointed handling agents, Bournemouth Airport Handling or XLR Jet Centre.
5	Hangar space for visiting aircraft	Available by prior arrangement only.
6	Repair facilities for visiting aircraft	Full up to 5700 KG AUW.

7	Remarks	All aircraft that use the Eastern or Western aprons and/or the terminal facilities are required to be handled by an approved handling agent. The airports approved handling agents are: Bournemouth Airport Handling (Charter/Scheduled): Tel: 01202-364252; Email: infodesk@bournemouthairport.com XLR Jet Centre. (Executive): Tel: 01202-364401; Email: jetcentre@xlrbournemouth.com Bliss Aviation Handling Ltd (General Aviation): Tel: 01202-590888; Email: info@blissaviation.com

EGHH AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel 1 mile.
2	Restaurants	Cafeteria, Restaurant, Buffet and Bar.
3	Transportation	Bus service; Taxis; Nearest railway station, Christchurch 3 NM.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	
6	Tourist Office	Terminal Building.
7	Remarks	

EGHH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	Promulgated Category A7: 0630-2130 (0530-2030). Outside of promulgated HR, the RFF category provided will be as required for the specific aircraft type. RFF Category 8 provided with RFF Category 7 under remission. Category 9 available on request and by prior arrangement, minimum 24 HR notice required.
2	Rescue equipment	As detailed for Category 9.
3	Capability for removal of disabled aircraft	10,000 KG MTWA. Contact OPS Tel: 01202-364155. The registered owner or aircraft operator retains complete responsibility for the removal of the disabled aircraft. All aircraft operators at BOH are required to have aircraft recovery plans.
4	Remarks	

EGHH AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard, See AD 1.2.2.
3	Remarks	Braking action assessment by pilot report. Latest information from ATC, Tel: 01202-364150.

EGHH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt PCN 46/F/B/X/U
2	Taxiway width, surface and strength	Taxiway ALPHA: 16 M Surface: Asphalt PCN 46/F/B/X/U Taxiway BRAVO: 23 M Surface: Asphalt PCN 46/F/B/X/U Taxiway CHARLIE: 16 M Surface: Asphalt PCN 46/F/B/X/U

		Taxiway DELTA: 16 M Surface: Asphalt PCN 46/F/B/X/U Taxiway ECHO: 16 M Surface: Asphalt PCN 46/F/B/X/U Taxiway GOLF: 16 M Surface: Asphalt PCN 46/F/B/X/U Taxiway MIKE: 16 M Surface: Asphalt PCN 46/F/B/X/U Taxiway NOVEMBER: 16 M Surface: Asphalt PCN 46/F/B/X/U Taxiway ROMEO: 23 M Surface: Asphalt PCN 46/F/B/Y/U Taxiway TANGO: 23 M Surface: Concrete and asphalt PCN 46/F/B/X/U Taxiway WHISKEY: 16 M Surface: Asphalt PCN 46/F/B/X/U →
3	Altimeter checkpoint location and elevation	Apron 34 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	Taxiway Bravo available only at the discretion of the Airport Authority when operationally required for Code D or Code E aircraft movements.

EGHH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Restricted to B737-800 size of aircraft or smaller on apron stands. Unrestricted on remote stands. All apron stands are nose in/push back stands. Stands 1R and 3R are available for larger aircraft at the airport authority's discretion. All stands must be used under marshalling guidance that will provide stop information to pilots. Aircraft may, at times, be required to park off the painted stand guidance lines, to ensure adequate wingtip clearance.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 08/26: Taxi-holding position, runway designation, runway threshold, runway centre-line, fixed distance markings. Taxiway light(s): Green centre-line lighting on Taxiway A, B, R and T. Other taxiways have blue edge lighting. Taxiway W has centre-line and edge reflectors.
3	Stop bars and runway guard lights (if any)	Red stop bars on holding points A, B1, B2, C, D, E, G1, G4, M, N, R and T →
4	Other runway protection measures	
5	Remarks	The portion of Taxiway Golf between holding points Golf 2 and Golf 3, is within the instrument strip. Obstacle marking. WDI: 504639.35N 0015048.29W, 504642.53N 0015008.47W and 504658.98N 0014953.62W (LGTD). Pilots are advised that holding points A and N infringe the glidepath critical area. Taxiing A and N delays possible.

EGHH AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHH3366) 26/APPROACH 08/ TAKE-OFF	TREE	504712.22N 0014831.37W	148 FT	113 FT	No	
(EGHH3236) 26/APPROACH	TREE	504711.62N 0014855.51W	112 FT	74 FT	No	
(EGHH3106) 26/APPROACH	TREE	504711.23N 0014902.15W	126 FT	82 FT	No	
(EGHH1405) 26/TAKE-OFF	TREE	504640.88N 0015146.75W	81 FT	44 FT	No	
(EGHH1314) 08/APPROACH	TREE	504640.38N 0015215.27W	127 FT	88 FT	No	
(EGHH1520) 26X/TAKE-OFF	ROAD	504636.98N 0015134.39W	53 FT	15 FT	No	
(EGHH1517) 26X/TAKE-OFF	TREE	504636.55N 0015134.60W	49 FT	11 FT	No	
(EGHH1423) 26/TAKE-OFF 26X/ TAKE-OFF	TREE	504635.25N 0015146.29W	80 FT	43 FT	No	
(EGHH1283) 08/APPROACH	PYLON	504631.69N 0015232.91W	120 FT	84 FT	Yes Red	
(EGHH1250) 08/APPROACH	PYLON	504629.55N 0015245.59W	135 FT	98 FT	Yes Red	
(EGHH1222) 08/APPROACH	PYLON	504628.55N 0015307.94W	147 FT	113 FT	No	
(EGHH1140) 08/APPROACH	PYLON	504623.91N 0015419.39W	150 FT	109 FT	No	
(EGHH1127) 08/APPROACH	PYLON	504622.91N 0015435.66W	156 FT	114 FT	No	
(EGHH3267) 26/APPROACH 08/ TAKE-OFF	TREE	504707.32N 0014852.55W	108 FT	65 FT	No	
(EGHH2691) 26/APPROACH	TREE	504705.59N 0014919.84W	69 FT	35 FT	No	
(EGHH2479) 26/APPROACH	TREE	504704.38N 0014929.48W	52 FT	20 FT	No	
(EGHH2647) 26/APPROACH	TREE	504654.76N 0014921.57W	70 FT	31 FT	No	
26/APPROACH 08/TAKE-OFF	WIND SENSOR	504650.92N 0014951.51W	65 FT	33 FT	Yes Steady red	
08/APPROACH 26/TAKE-OFF	WIND SENSOR	504648.41N 0015054.29W	68 FT	33 FT	Yes Steady red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHH2750)	TREE	504903.04N 0014917.32W	236 FT	63 FT	No	
(EGHH1240)	TREE	504834.63N 0015249.09W	274 FT	192 FT	No	
(EGHH2519)	TREE	504823.52N 0014927.10W	198 FT	85 FT	No	
(EGHH3491)	TREE	504814.24N 0014413.33W	330 FT	99 FT	No	
(EGHH1128)	PYLON	504802.36N 0015434.46W	266 FT	156 FT	No	
(EGHH1181)	TREE	504650.05N 0015329.95W	192 FT	147 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHH1222) 08/APPROACH	PYLON	504628.55N 0015307.94W	147 FT	113 FT	No	
(EGHH1055)	MAST	504525.45N 0015620.12W	362 FT	159 FT	No	
(EGHH1467)	CHURCH	504455.28N 0015138.68W	204 FT	108 FT	No	
(EGHH1147)	TREE	504449.65N 0015359.67W	241 FT	129 FT	No	
(EGHH1037)	MAST	504447.02N 0015650.00W	366 FT	212 FT	No	
(EGHH1204)	TREE	504439.27N 0015325.71W	240 FT	137 FT	No	
(EGHH1143)	MAST	504358.40N 0015406.39W	297 FT	180 FT	No	
(EGHH1213)	TREE	504537.53N 0015320.49W	193 FT	81 FT	No	
(EGHH3430)	MAST	504534.77N 0014756.76W	293 FT	156 FT	No	

EGHH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/Online.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	BOURNEMOUTH
10	Additional information (limitation of service, etc.)	METARs are only issued outside of promulgated ATS hours when ATC is active due to prearranged flights.

EGHH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
08	075.31°	2272 x 46 M	RWY surface: Concrete and asphalt PCN 46/F/A/X/U	504642.47N 0015107.76W 154.7 FT	THR 37.8 FT TDZ 38.2 FT	RWY 08 0.1% down RWY 26 0.1% up
26	255.33°	2272 x 46 M	RWY surface: Concrete and asphalt PCN 46/F/A/X/U	504657.57N 0014936.88W 154.5 FT	THR 31.0 FT TDZ 35.2 FT	RWY 08 0.1% down RWY 26 0.1% up
26X	255.33°	2272 x 46 M	RWY surface: Concrete and asphalt PCN 46/F/A/X/U	504657.56N 0014936.97W	THR 31.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	305 x 150 M				Standard for Code 4 RWY.	RWY 08 Threshold displaced by 432 M. Strip Dimensions: 2392 x 280 M.
60 x 46 M	60 x 150 M				Standard for Code 4 RWY.	RWY 26 Clear and graded area to the south of 26 threshold does not conform with EASA Reg (EU) No 139/2014 requirements. Strip Dimensions: 2207 x 280 M.
	60 x 150 M	2332 x 280 M				RWY 26X

EGHH AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	2272 M	2577 M	2272 M	1840 M	
26	2027 M	2087 M	2087 M	1971 M	
08	1704 M	2009 M	1704 M		Take-off from intersection with Taxiway Mike. See AD 2.20 paragraph 6c.
26	1778 M	1838 M	1838 M		Take-off from intersection with Taxiway Echo. See AD 2.20 paragraph 6c.
26X	2212 M	2272 M	2212 M	1971 M	See AD 2.20 paragraph 6a.

EGHH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08	Coded centre-line with three crossbars. 510 M Light intensity high	Green Light intensity high Elevated with green wingbars	PAPI /3° 50 FT 312 M		Colour coded centre-line 15 M Light intensity high	Elev bi-directional with LI omni-directional component Light intensity high	Red	Red	
26	Coded centre-line with five crossbars. Supplementary lights inner 300 M. 914 M Light intensity high	Green Light intensity high Elevated with green wingbars	PAPI Left/3° 57 FT 352 M	900 M	Colour coded centre-line 15 M Light intensity high	HI elev bi-directional with LI omni-directional component	Red	Red	

EGHH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 504641.43N 0015050.12W, 504659.99N 0014952.68W and 504640.70N 0015024.15W.

3	TWY edge and centre line lighting	CL: Green centre-line lights on Taxiways Alpha, Bravo, Romeo and Tango. EDGE: Blue edge lights on Taxiways Charlie, Delta, Echo, Golf, Mike and November.
4	Secondary power supply/switch-over time	Yes. Average 8 seconds.
5	Remarks	During CAT II/III Operations standby generator selected as mains power source. Back-up power supply switch over time of 1 second average.

EGHH AD 2.16 HELICOPTER LANDING AREA

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EGHH AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BOURNEMOUTH CTR 505312N 0014301W thence clockwise by the arc of a circle radius 8 NM centred on 504648N 0015033W to 504441N 0013824W - 504111N 0015930W thence clockwise by the arc of a circle radius 8 NM centred on 504648N 0015033W to 505003N 0020205W - 505312N 0014301W	Upper limit: 2000 FT ALT Lower limit: SFC	D	BOURNEMOUTH APPROACH English	6000 FT		Outside the Solent CTA notified hours of operation the Transition Altitude is 3000 FT.
BOURNEMOUTH ATZ A circle, 2.5 NM radius, centred at 504648N 0015033W on longest notified runway (08/26)	Upper limit: 2000 FT AGL Lower limit: SFC	D	BOURNEMOUTH APPROACH English	6000 FT		Outside the Solent CTA notified hours of operation the Transition Altitude is 3000 FT. Airspace Classification D/G refer to Section ENR 1.4 for Notifications.

EGHH AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	BOURNEMOUTH APPROACH	119.480 DOC 50 NM/ 10,000 FT.			0630-2130 (0530-2030).	ATZ hours coincident with aerodrome hours.
		121.500 Emergency frequency. DOC 25 NM/4,000 FT.			O/R	
TWR	BOURNEMOUTH GROUND	121.705 DOC 2 NM/GND.			1000-1800 (0900-1700).	GMC opening between these hours varies according to ATC requirements and traffic levels.
	BOURNEMOUTH TOWER	121.500 Emergency frequency. DOC 25 NM/4,000 FT.			O/R	
		125.605 DOC 25 NM/4,000 FT.			0630-2130 (0530-2030).	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
RADAR	BOURNEMOUTH DIRECTOR	118.655 Not continuously monitored. DOC 25 NM/ 10,000 FT.			As directed by ATC.	
	BOURNEMOUTH RADAR	119.480 DOC 50 NM/ 10,000 FT.			0630-2130 (0530-2030). Outside of promulgated ATS hours for prearranged flights.	
ATIS	BOURNEMOUTH INFORMATION	133.730 DOC 50 NM/ 20,000 FT.			0620-2120 (0520-2020).	
OTHER	BOURNEMOUTH FIRE	121.600 Non-ATS Frequency. Not continuously monitored.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	BOURNEMOUTH RADIO	125.605 DOC 25 NM/4,000 FT. A/G frequency.			Outside of the promulgated hours of ATS, Air Ground Communication Service available for pre-agreed fixed wing air ambulance flights only.	

EGHH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.83°E (2027)	IBMH	110.500 MHz	HO	504700.23N 0014920.86W		(RWY 08) ILS is not suitable for coupled approaches below 200 FT.
ILS/GP	IBMH	329.600 MHz	HO	504641.44N 0015050.18W		ILS is not suitable for coupled approaches below 200 FT. Glidepath purturbations may be experienced between 8 NM and 4 NM. 3° ILS Ref Datum Hgt 53 FT. Localizer range is limited to 18 NM at +-10 degrees and 8 NM at +-35 degrees of the localizer centre-line.
ILS/LOC III 0.82°E (2027)	IBH	110.500 MHz	HO	504638.14N 0015133.75W		(RWY 26)
ILS/GP	IBH	329.600 MHz	HO	504659.98N 0014952.63W		3° ILS Ref Datum Hgt 51 FT. Pilots may not experience full fly-up indication when below the Glidepath, outside of 6° right of centreline.
VOR/DME 0.98°E (2027) 0.8°E (2024)	SAM	80Y 113.350 MHz	H24 Hours of operation for aerodrome purposes: HO	505718.90N 0012042.20W	64 FT	VOR DOC: 20 NM/50,000 FT (35 NM/ 50,000 FT in Sector R249-084 and 40 NM/50,000 FT in Sector R359-034). DME DOC: 100 NM/50,000 FT (150 NM/50,000 FT in Sector R224-314). On R202 VOR flag alarms and DME unlocks may be experienced at ranges exceeding 30 NM below 8000 FT.
DME	IBH	42X 110.500 MHz	HO	504655.73N 0015027.85W	51 FT	(RWY 26) On AD. Freq paired with ILS I-BH and I-BMH. Zero range is indicated at THR of Runway 26 and 0.1 NM before crossing THR of Runway 08. DOC 25 NM/10,000 FT.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	IBMH	42X 110.500 MHz	HO	504655.73N 0015027.85W	51 FT	(RWY 08) On AD. Freq paired with ILS I-BH and I-BMH. Zero range is indicated at THR of Runway 26 and 0.1 NM before crossing THR of Runway 08. DOC 25 NM/10,000 FT.
NDB (L) 0.83°E (2027)	BIA	339.000 kHz	H24	504639.61N 0015032.95W		On AD. Range 20 NM.

EGHH AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) PPR for all aircraft (see paragraphs b and c).

i. All flights, except General Aviation and Military flights, are subject to the prior approval of the Airport Authority, Bournemouth Airport Ltd and prior notification to Airport Coordination Ltd, who act as an agent for the airport. Requests for ad-hoc slot allocations should be made to ACL during working hours Mon-Fri 0830-1700 (0730-1600) by SITA: LONACXH; e-mail: lonacxh@acl-uk.org; or Tel: +44 (0)161-493 1850; Fax: +44 (0)161-493 1853; or at all other times to the Aerodrome Duty Manager +44 (0)1202-364350. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com/.

b) All visiting commercial and executive aircraft are subject to compulsory handling by either Bournemouth Airport Handling or XLR Jet Centre (see AD 2.4). Flights intending to operate outside the notified operating hours, are subject to prior approval from the Airport Authority. Operators where possible should provide at least 24 hours notice. Bournemouth Airport is unable to guarantee any requests outside of promulgated AD hours.
c) All visiting General Aviation aircraft are strictly subject to PPR and compulsory handling. Pilots must obtain a PPR reference number prior to arrival from Bliss Aviation Handling Ltd (01202-590888) and indicate the purpose of the visit and parking requirements. They will be required to leave the pilot's name, address and contact number. Aircraft without a PPR number will not be permitted to land.
d) Non-radio aircraft are subject to approval by ATC only.
e) Flight planning facilities for General Aviation aircraft are available at Bliss Aviation Handling. Flight Plans are not accepted over the telephone.
f) Pilots must book out with Bliss Aviation Handling or ATC by telephone (01202-364150) prior to departure. Booking out on RTF is not permitted and pilots may face lengthy delays.
g) Landing fees are usually invoiced but can be paid either in person or by telephone through Bliss Aviation Handling Ltd only.
h) In order to comply with the CAA, HSE and Department for Transport regulations, all persons entering airside areas on foot, are required to wear high visibility clothing. All persons entering the Restricted Zone are required to be escorted at all times.
i) All visiting operators must be aware of, and comply with, the airport's Terms & Conditions; these are published with the Airport Fees and Charges, available via the "Airfield Information" link on the Bournemouth Airport Website.
j) Banner towing aircraft are not permitted.

2 GROUND MOVEMENT

a) Entrance to the east and west aprons from Taxiways Alpha and Bravo is restricted to aircraft with a wingspan not exceeding 60 M. Entrance to the east and west aprons via Taxiway Charlie, Delta or Golf from the north is restricted to aircraft with a wingspan not exceeding 41 M.
b) The following restrictions apply to the use of taxiways:

Taxiways, with the exception of Taxiways Romeo and Tango, are 16 M wide and not suitable for use by aircraft with wheelbase more than 18 M and/or wheelspan of 9 M. Taxiways Romeo and Tango are 23 M wide and suitable for use by most current civil aircraft. Taxiway Bravo is 23 M wide and suitable for aircraft up to category E. (Can only be used at the discretion of the Airport Authority when operationally required). That portion of taxiway between the north end of Taxiway Whiskey and the north end of Taxiway Tango is code B with a width of 19.5 M due to the proximity of the Fire Ground Training Area.

c) Due to multiplicity of parking areas, pilots of all outbound aircraft are to state their parked position on initial RTF contact with ATC.
d) Ground Engine running for maintenance/testing is only permitted in accordance with detailed Airport Operational Instructions. All ground running must be booked with ATC (Ext 150) and have the approval of the airport authority. Charges will be in accordance with the current scale of fees and charges airport publication.
e) Compass Swing procedures are permitted at the designated site only. Requests to carry out a Compass Swing must be approved by ATC. Charges will be in accordance with the current Scale of Fees and Charges Airport Publication.
f) Pilots using Taxiway Whiskey should be alert to the movement of vehicles between European Aviation, Hangar 103 and the remotely parked aircraft on Taxiway Tango. Vehicles may be operating on a 'free-flow' basis.

3 CAT II/IIIA OPERATIONS:

a) ATC Low Visibility Procedures (LVPs) will be initiated whenever the IRVR or meteorological visibility is 1000 M and is forecast to deteriorate or the cloud ceiling is 300 FT and forecast to deteriorate.
b) CAT II/IIIa operations apply whenever the IRVR is less than 600 M and/or the cloud ceiling is less than 200 FT. Only Runway 26 is available for CAT II/IIIa operations.
c) ATC will operate a block-to-block taxi system with only one aircraft allowed in each block. Due to these limitations the arrival rate cannot be greater than 12 aircraft per hour.
d) A 'Follow-me' vehicle may be used to escort all arriving and departing aircraft, between aprons and the runway holding points, depending on the prevailing visibility at the time, or if requested by the pilot.
e) The following runway entry/exit points will be closed: Alpha, Charlie, Delta, Echo, Juliet, Mike and November.
f) Runway centre-line spacing is 15 M.
g) During CAT II/IIIa operations, CAT III holding points are in use. Pilots may require to backtrack the Runway and must follow ATC instructions.

4 WARNINGS

a) Three roadways, delineated by white lines, exist between the East and West Apron areas. Pedestrian crossing of the Apron taxi lane is only permitted between the designated points. All pedestrians must wear high visibility clothing. No crossing is permitted when the red stoplights are on.
b) A roadway delineated by solid white lines exists across the taxiway in the vicinity of DRAKEN hangars. These routes are uncontrolled and not visible to ATC. The area is floodlit at night and warning signs are situated at the taxiway edge. Pilots are to exercise particular caution when traversing the area. During Low Visibility Procedures and at night, access is controlled by traffic lights.
c) Pilots are warned, when landing on Runway 26 in strong southwesterly wind conditions, of the possibility of building induced turbulence and/or windshear.
d) Hang-gliders and Paragliders are operating within parts of the Bournemouth CTR coastal area, known as area 'Southbourne' (between Sandbanks and Hengistbury Head) and area 'Barton' (between Hengistbury Head and Barton-on-Sea) not above an altitude of 1000 FT (Bournemouth QNH). When active, promulgated by ATIS.
e) AD may operate outside published operating hours for prearranged flights only.

5 HELICOPTER OPERATIONS

a) All Helicopters capable of ground taxiing will use the Runway for take-off and landing and the taxiways for taxiing. All other helicopters will hover taxi using the runway and taxiways and alight and depart as directed by ATC. Helicopters must avoid overflying parked aircraft.
b) Helicopter circuits operate north of Runway 26 and at a height of 700 FT AGL.

6 USE OF RUNWAYS

a) Use of higher TORA, ASDA and TODA figures for Runway 26, shown at AD 2.13 as Runway 26X, require that traffic lights on the public road immediately to the west of the aerodrome should be illuminated. Aircraft operators or pilots are to ensure that they have notified ATC of their requirements to use the higher declared distances when they request engine start-up clearance. There is a restriction on departures from Runway 26 requiring the higher declared distances between 0730-0900 and 1600-1800 (0630-0800 and 1500-1700) when only three such departures per time period are permitted.
b) Runway 08/26 is compatible for use by wide body aircraft up to code E.
c) Due to RESA limitations all aircraft with a MTWA of 5700 KG or more, cannot use any intermediate departure point of either runway.

7 TRAINING

a) Training for non-Bournemouth based operators is only available by prior arrangement with ATC and subject to local traffic. All Turbine powered and all aircraft above 5700 KG MTWA that require visual circuits will need to comply with the Noise Abatement Procedures (AD 2.21) and may be required to be vectored for sequencing purposes.
b) Any requests for training outside the published Aerodrome Operational Hours are subject to Airport Authority approval.
c) Due to the large numbers of aircraft using the aerodrome for instrument training, a booking system is in operation. Training periods can be booked by application to ATC. The filing of a flight plan does not constitute a booking to carry out instrument training at the aerodrome. Failure to make a booking may result in the aircraft being refused use of the facilities. Pilots unable to make the booked time must inform ATC so that a new booking may perhaps be made. Pilots should inform ATC of booking cancellations. The Slot tolerance for beacon training is +/- 10 min and pilots should be aware that at peak times, not adhering to the slot may result in delays and/or cancellations. The Flow Management for Instrument Route training within Solent CTA is controlled by Southampton Airport. Bookings for route training are in addition to Instrument Training bookings made at this aerodrome.
d) All aircraft going around from an approach to either runway that do not need to comply with the Noise Abatement Procedures, shall not commence a turn before at least 1.0 DME, unless otherwise instructed by ATC for expedition or separation purposes.

EGHH AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance to the area around the aerodrome.

2 NOISE PREFERENTIAL ROUTES

a) The following Noise Preferential Routes shall apply to all turbine powered/jet aircraft and all other aircraft with a MTWA greater than 5700 KG, unless specifically otherwise instructed by ATC, or deviation required for safety reasons.

i. Take-off Runway 26:

Climb straight ahead to 0.6 DME, then track 270° MAG to 3.1 DME, before commencing any turn. (This also applies to LH and RH Visual Circuits).

ii. Take-off Runway 08:

1. Required track between 001° and 079° MAG: Climb straight ahead to 1.0 DME, then track 075° MAG to 5.6 DME before commencing any turn.
2. Required track between 080° and 259° MAG: Climb straight ahead to 1.0 DME, then track 075° MAG to 4.1 DME before commencing any turn. (This also applies to RH Visual Circuits).
3. Required track between 260° and 360° MAG: Climb straight ahead to 2.0 DME, to be no lower than 1500 FT QNH before commencing any turn. (This also applies to LH Visual Circuits).

3 TAKE-OFF AND CLIMB PROCEDURES (INCLUDING 'GO-AROUNDS')

a) Aircraft Operators shall instigate their aircraft manufacturer 's noise abatement recommended procedures on departure and up to FL 100, or the procedures listed in the following paragraphs:

i. Take-off Runway 26:

1. Take-off to 1500 FT QNH;

Power - Normal Take-off;

Speed V2 + 10 KT (+);

Flaps - Set as appropriate.

2. 1500 FT to 3000 FT QNH;

Power - Reduce to climb thrust;

Speed V2 + 10 KT (+);

Flaps - Maintain previous setting.

3. At 3000 FT QNH Retract flaps on schedule and assume normal en-route climb;
4. Between 3000 FT QNH and FL 100: Maximum climb speed 250 KT unless otherwise instructed.

ii. Take-off Runway 08:

1. Take-off to 1500 FT QNH;

Power - Normal Take-off;

Speed V2 + 10 KT (+);

Flaps - Set as appropriate.

2. 1500 FT to 3000 FT QNH;

Power - Reduce to climb thrust;

Speed V2 + 10 KT (+);

Flaps - Maintain previous setting.

3. At 3000 FT QNH accelerate and retract flaps/slats on schedule while maintaining a positive rate of climb;
4. Between 3000 FT QNH and FL100: maximum climb speed 250 KT unless otherwise instructed.

Note: *V2 + 10 KT (+) indicates that V2 + 10 may be exceeded where pitch angle or specific aircraft characteristics are possible limiting factors.*

All light propeller driven aircraft with a MTWA of less than 5700 KG, on departure of either runway, shall not commence a turn before passing 700 FT QNH or 1.0 DME (whichever first), unless otherwise instructed by ATC.

4 ILS APPROACHES

a) When using the ILS in IMC or VMC, all turbine powered aircraft and all other aircraft with a MTWA of 5700 KG or more, shall not descend below 2000 FT QNH before intercepting the glidepath, nor thereafter fly below it. Aircraft approaching without assistance from the ILS or radar shall not at any time follow a descent path lower than that which would result from an approach using guidance from the ILS. Aircraft may be routinely vectored or execute procedural approaches below this level within the SMAA, according to ATC procedures.
b) All turbine powered aircraft and all other Aircraft with a MTWA greater than 5700 KG making Visual Approaches to Runway 26 shall intercept the final approach track at:

- Not less than 3 DME from the north;
- Not less than 4.1 DME from the south.

To Runway 08 at:

- Not less than 4 DME from either direction.

c) Between 2130-0630 (2030-0530) all aircraft that wish to self position for an ILS or a visual approach shall establish on final approach at no less than 8 DME and not below 2500 FT QNH.

5 CONTINUOUS DESCENT APPROACHES

a) Turbine powered aircraft are expected to apply continuous descent, low power, low drag approach techniques at all times.
b) Subject to ATC instructions, inbound aircraft are to maintain as high an altitude as practical and adopt a low power, low drag, continuous descent approach profile. ATC will provide estimated track distance to touchdown to allow pilots to descend at a rate they judge best suited to achieve continuous descent without using more power or drag than necessary. The object will be to join the glidepath at the appropriate height for the distance without level flight.
c) To facilitate these techniques aircraft should be flown no faster than 250 KT from the Speed Limiting Points and below FL 100 and 250-210 KT during the intermediate approach phase. Thereafter speed should be managed so as to achieve a continuous descent using as little power or drag as possible. ATC may impose speed control if required for separation purposes.
d) ATC will provide range checks. Pilots who require additional track mileage to facilitate a successful CDA should inform ATC as soon as the requirement is apparent.

6 REVERSE THRUST

a) Pilots are requested to avoid the use of reverse thrust or reverse pitch above idle power settings on landing, consistent with the safe operation of the aircraft.

7 VISUAL CIRCUIT HEIGHT

a) Circuit height for aircraft with a MTWA less than 5700 KG is 1200 FT QNH. For all turbine powered and all other aircraft with a MTWA above 5700 KG, the circuit height is 1500 FT QNH. Aircraft will have to comply with the Noise Preferential Routes and may be required to be vectored for sequencing purposes.
b) Low level circuits are only permitted to the south of the aerodrome and at a height of 700 FT QNH. Maximum two low level circuits per training sortie.

8 ENGINE GROUND RUNNING

a) Engine Ground Running (including idle power) is only permitted Mon-Fri 0800-2000 (0700-1900); Sat 0900-1700 (0800-1600); Sun and PH (idle power only) 0900-1700 (0800-1600). No high power engine runs on Sundays. All Engine Run Sessions must be approved by the Airport Authority and booked through ATC (ext. 150).
b) Use of APU shall be limited as much as possible. APU may be used:

i. 5 minutes after 'On Blocks';
ii. 30 minutes before Estimated Time of Departure (ETD).

EGHH AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Inbound Routes.

i. Full routeings are published in the UK Standard Route Document (SRD). IFR traffic inbound to Bournemouth from the ATS Route network will be routed on the designated Standard Arrival Routes and positioned for Bournemouth by ATC. The Standard Arrival Routes are published at AD 2-EGHH-7-1 to 7-4.

b) Inbound Procedures other than from the ATS Route network

i. Inbound aircraft other than from the west should route direct to NDB(L) BIA.

c) Holding Procedures

i. Holding patterns are as follows:

Main Stacks	Holding
Bournemouth NDB(L) BIA (Lowest level 3000 FT ALT)	Holding axis 078° MAG turning left at the facility.
NEDUL (Lowest level 4000 FT ALT)	See AD 2-EGHH-7-4 and Coding Table on AD 2-EGHH-7-7.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) The initial departure routes are shown below. Full routeings are published in the UK Standard Route Document (SRD). These routes may be varied at the discretion of ATC (eg. to offer more direct routeing when the traffic situation permits). Pilots must adhere to the Noise Preferential Routes detailed at AD 2.21 before turning onto the specified route. **These routes are not assessed for obstacle clearance and do not constitute Standard Instrument Departure procedures.**

Departing to	Runway	Via	Direction of Turn	Route
North	08	SAM	Left Turn	As per UK SRD
	26	SAM	Right Turn	As per UK SRD
North-West	08	SAM	Left Turn	As per UK SRD
	26	SAM	Right Turn	As per UK SRD
East	08	GWC	Right Turn	As per UK SRD
	26	GWC	Right Turn	As per UK SRD
South	08	THRED	Right Turn	As per UK SRD
	26	THRED	Left Turn	As per UK SRD
West	08	FIR	Left Turn	As per UK SRD
	26	FIR	Direct	As per UK SRD

Note: *See also UK Standard Route Document (available online from NATS/AIS website: http://www.nats.aero/ais.*

3 RADIO COMMUNICATIONS FAILURE PROCEDURES

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1 paragraph 3.4.
b) The routes to be used when leaving the CTR in accordance with the procedures at ENR 1.1 paragraph 3.4 are shown in the table below; the route to be followed is dependent on the position of the aircraft at the time the decision to leave the Airspace is made.

Position at time of decision	Route
Bournemouth NDB BIA	Track 270°(T)

4 FLIGHTS ENGAGED IN INSTRUMENT ROUTE TRAINING - FLOW MANAGEMENT REQUIREMENTS

a) Instrument Route Training may be subject to Air Traffic Flow Management at peak times.
b) All flights planned to engage in Instrument Route Training either wholly or partially within the Solent CTA must:

i. File a flight plan; and
ii. Telephone Bournemouth Approach Control to book a 'Training Slot' within the Solent CTA prior to departure. The telephone number to contact is Bournemouth 01202-364150.

Note: *It should be noted that, normally only one route training detail will be permitted in any 30 minute period.*

c) Instrument Route Training flights operating from Southampton (EGHI) or Bournemouth (EGHH) must conform to the procedures in paragraph 4 b i and ii. These flights will be allocated a take-off time by Bournemouth Approach. A tolerance of take-off time + 15 minutes will be given to allow for ATC or aircraft operation constraints. Aircraft which fail to become airborne within this tolerance, will be required to obtain a new slot.
d) Pilots should note that the preferred Instrument Training Routes and optimum flight levels are as follows:

HI 1	NEDUL - THRED - BIA FL 50.
HI 2	BIA - THRED - NEDUL - FL 50.
HI 3	SAM - CPT - SAM FL 80/70
HI 4	EGHH - SAM - BIA FL 50
HI 5	EGHH - SAM - BIA-EGHH FL 50.
HI 6	EGHI - NEDUL - BIA - SAM - EGHI FL50.
HI 7	EGHI - NEDUL - BIA - SAM - EGHH FL 50

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

Note: *Refer also to VRPs in use at Southampton.*

6 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Bournemouth CTR, within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Bournemouth Radar frequency, 119.480 MHz, are encouraged to select SSR code 0011.

503620N 0015730W - 504311N 0021212W -
505248N 0021628W - 510128N 0013420W -
505442N 0013925W - 504229N 0013301W -
503620N 0015730W.

b) Selection of 0011 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the controlled airspace at all times.
c) Whilst squawking 0011 pilots should be aware that Bournemouth Radar may make contact in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 0011 shall be deselected.

EGHH AD 2.23 ADDITIONAL INFORMATION

a) Model aircraft flying is occasionally active at the following sites, each up to 400 FT AGL:

i. North End House, Avon. 504800.27N 0014746.29W;
ii. Oldfield, Sopley. 504636.08N 0014545.15W;
iii. Avon Model Flying Club, Matchams Lane. 504846.80N 0014948.65W.

Pilots are advised to exercise caution in these areas as flying is not notified by ATC.

EGHH AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHH-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGHH-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGHH-5-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BUGUP 1S CPT 1S UMBUR 2S - ICAO
AD 2.EGHH-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) COWLY 1S - ICAO
AD 2.EGHH-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ELDAX 1S - ICAO
AD 2.EGHH-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) THRED 1S - ICAO
AD 2.EGHH-7-4
STANDARD INSTRUMENT ARRIVAL CODING TABLES BUGUP 1S CPT 1S UMBUR 2S COWLY 1S
AD 2.EGHH-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES ELDAX 1S THRED 1S
AD 2.EGHH-7-6
RNAV HOLD CODING TABLES NEDUL PEPIS RUDMO SAM
AD 2.EGHH-7-7
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 08 - ICAO
AD 2.EGHH-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 08 - ICAO
AD 2.EGHH-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 08 - ICAO
AD 2.EGHH-8-3
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 26 - ICAO

AD 2.EGHH-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 26 - ICAO
AD 2.EGHH-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 26 - ICAO
AD 2.EGHH-8-6

EGHH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

AERODROME CHART - ICAO

ARP 504648N 0015033W

AD ELEV 38FT

BOURNEMOUTH
EGHH

AERO INFO DATE 18 JUN 25

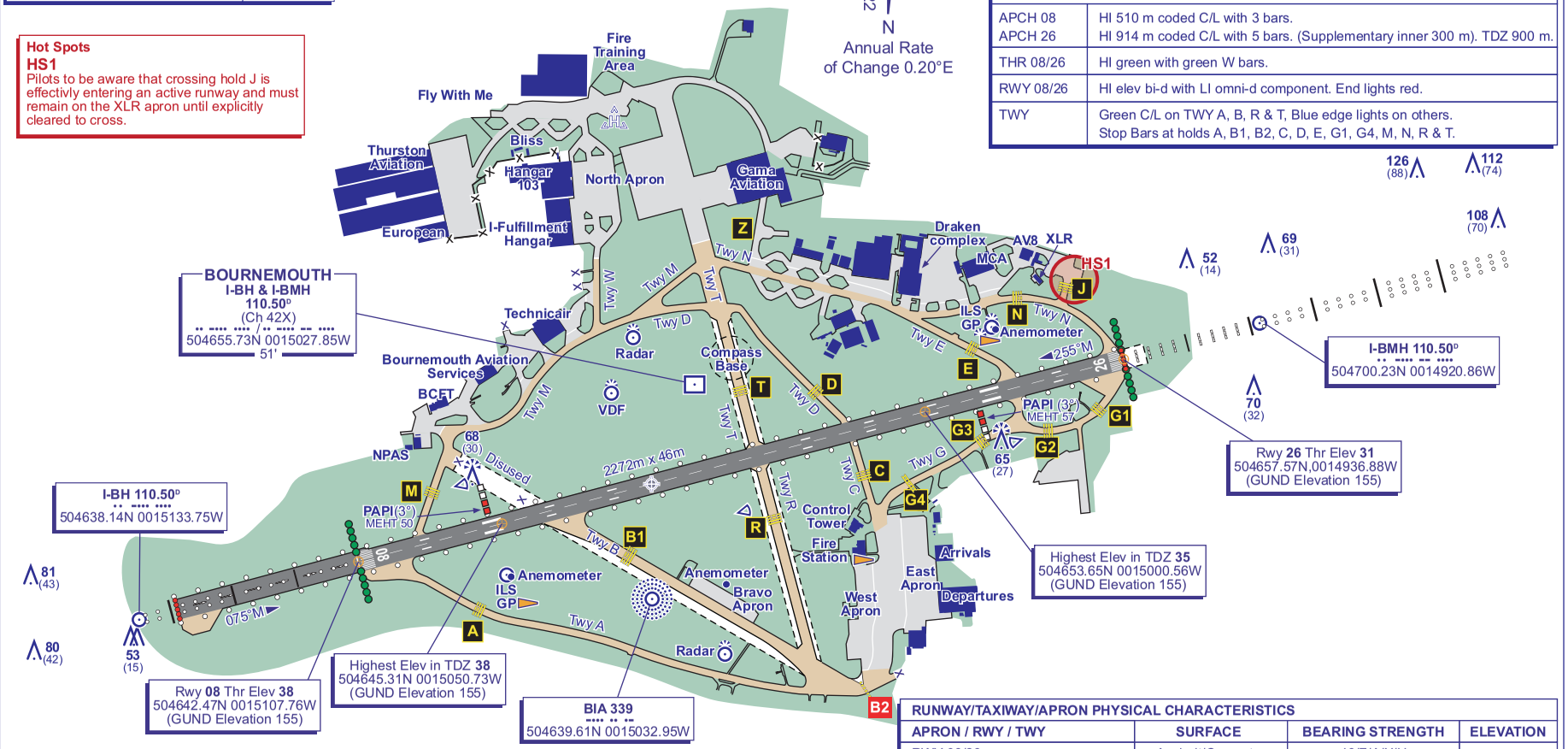
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	126 (88)

Hot Spots
HS1
Pilots to be aware that crossing hold J is effectivly entering an active runway and must remain on the XLR apron until explicitly cleared to cross.

100 0 100 200 300 400 500 m
500 0 500 1000 1500 ft

VAR 0.0°E - 2022
N
Annual Rate of Change 0.20°E

COM		
ATIS	133.730	BOURNEMOUTH INFO
TWR	125.605	BOURNEMOUTH TOWER
	121.705 (GMC)	BOURNEMOUTH GROUND
	121.600	BOURNEMOUTH FIRE
OTHER	125.605 (A/G)	BOURNEMOUTH RADIO
LIGHTING		
APCH 08 APCH 26	HI 510 m coded C/L with 3 bars. HI 914 m coded C/L with 5 bars. (Supplementary inner 300 m). TDZ 900 m.	
THR 08/26	HI green with green W bars.	
RWY 08/26	HI elev bi-d with LI omni-d component. End lights red.	
TWY	Green C/L on TWY A, B, R & T, Blue edge lights on others. Stop Bars at holds A, B1, B2, C, D, E, G1, G4, M, N, R & T.	



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
RWY 08/26	Asphalt/Concrete	46/F/A/X/U	-
Apron	Asphalt/Concrete	46/F/B/X/U	34 ft amsl
TWY A, B, C, D, E, G, M, N & W	Asphalt	46/F/B/X/U	-
TWY R	Asphalt	46/F/B/Y/U	-
TWY T	Concrete/Asphalt	46/F/B/X/U	-

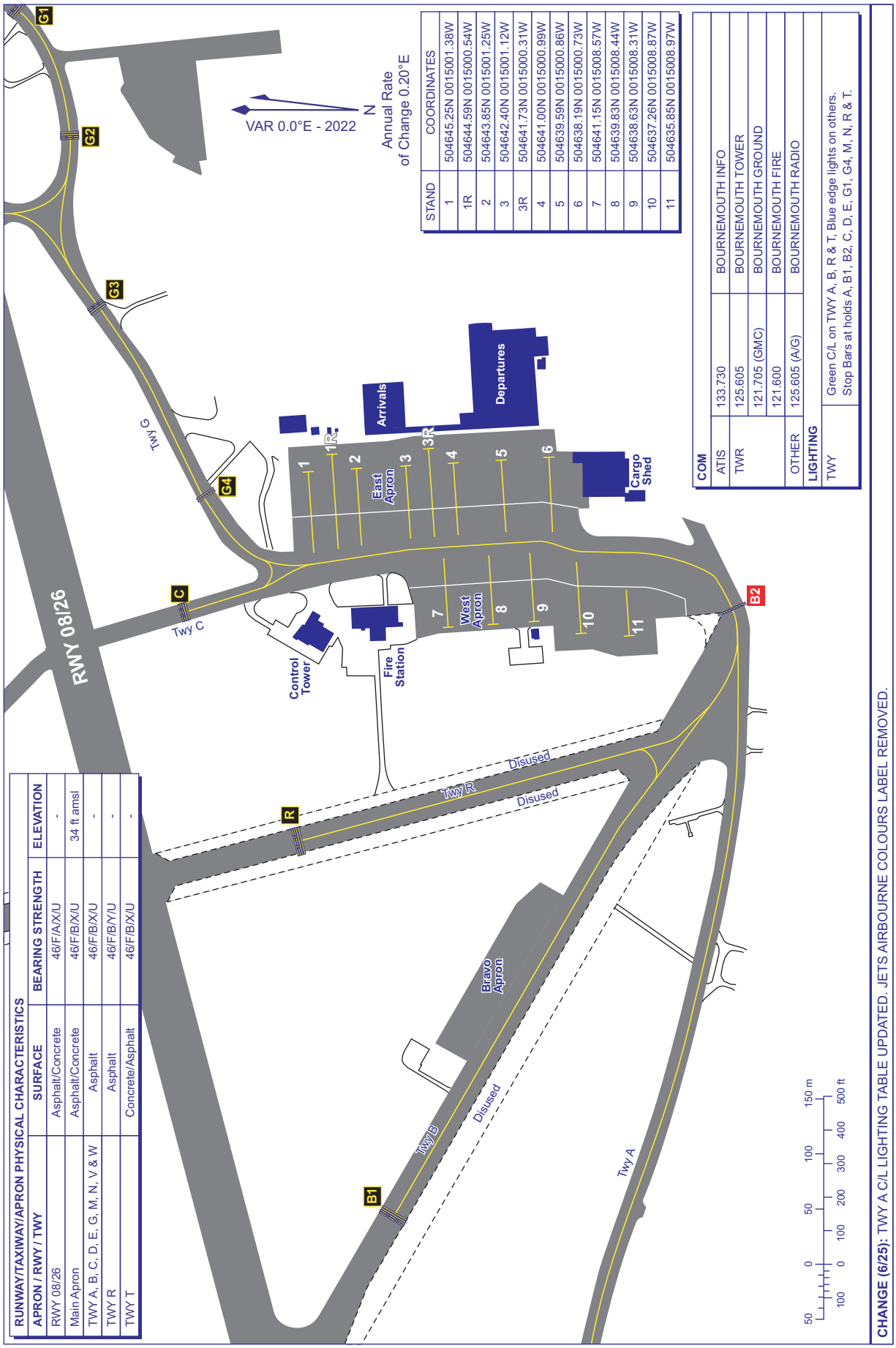
CHANGE (9/25): NORTH APRON. OBSTACLES ADDED. HOT SPOTS. BUILDING LABELS REMOVED. TWY V REMOVED. TWY T & W REDUCED. EDITORIAL.

AIRCRAFT PARKING/DOCKING CHART - ICAO

BOURNEMOUTH EGHH

ARP 504648N 0015033W

AD ELEV 38FT



STAND	COORDINATES
1	504645.25N 0015001.38W
1R	504644.59N 0015000.54W
2	504643.85N 0015001.25W
3	504642.40N 0015001.12W
3R	504641.73N 0015000.31W
4	504641.00N 0015000.99W
5	504639.59N 0015000.86W
6	504638.19N 0015000.73W
7	504641.15N 0015008.57W
8	504639.83N 0015008.44W
9	504638.63N 0015008.31W
10	504637.26N 0015008.87W
11	504635.85N 0015008.97W

COM		
ATIS	133.730	BOURNEMOUTH INFO
TWR	125.605	BOURNEMOUTH TOWER
	121.705 (GMC)	BOURNEMOUTH GROUND
	121.600	BOURNEMOUTH FIRE
OTHER	125.605 (A/G)	BOURNEMOUTH RADIO
LIGHTING		
TWY	Green C/L on TWY A, B, R & T, Blue edge lights on others. Stop Bars at holds A, B1, B2, C, D, E, G1, G4, M, N, R & T.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 08/26	Asphalt/Concrete	46/F/A/X/U	-
Main Apron	Asphalt/Concrete	46/F/B/X/U	34 ft amsl
TWY A, B, C, D, E, G, M, N, V & W	Asphalt	46/F/B/X/U	-
TWY R	Asphalt	46/F/B/Y/U	-
TWY T	Concrete/Asphalt	46/F/B/X/U	-

CHANGE (6/25): TWY A C/L LIGHTING TABLE UPDATED. JETS AIRBOURNE COLOURS LABEL REMOVED.

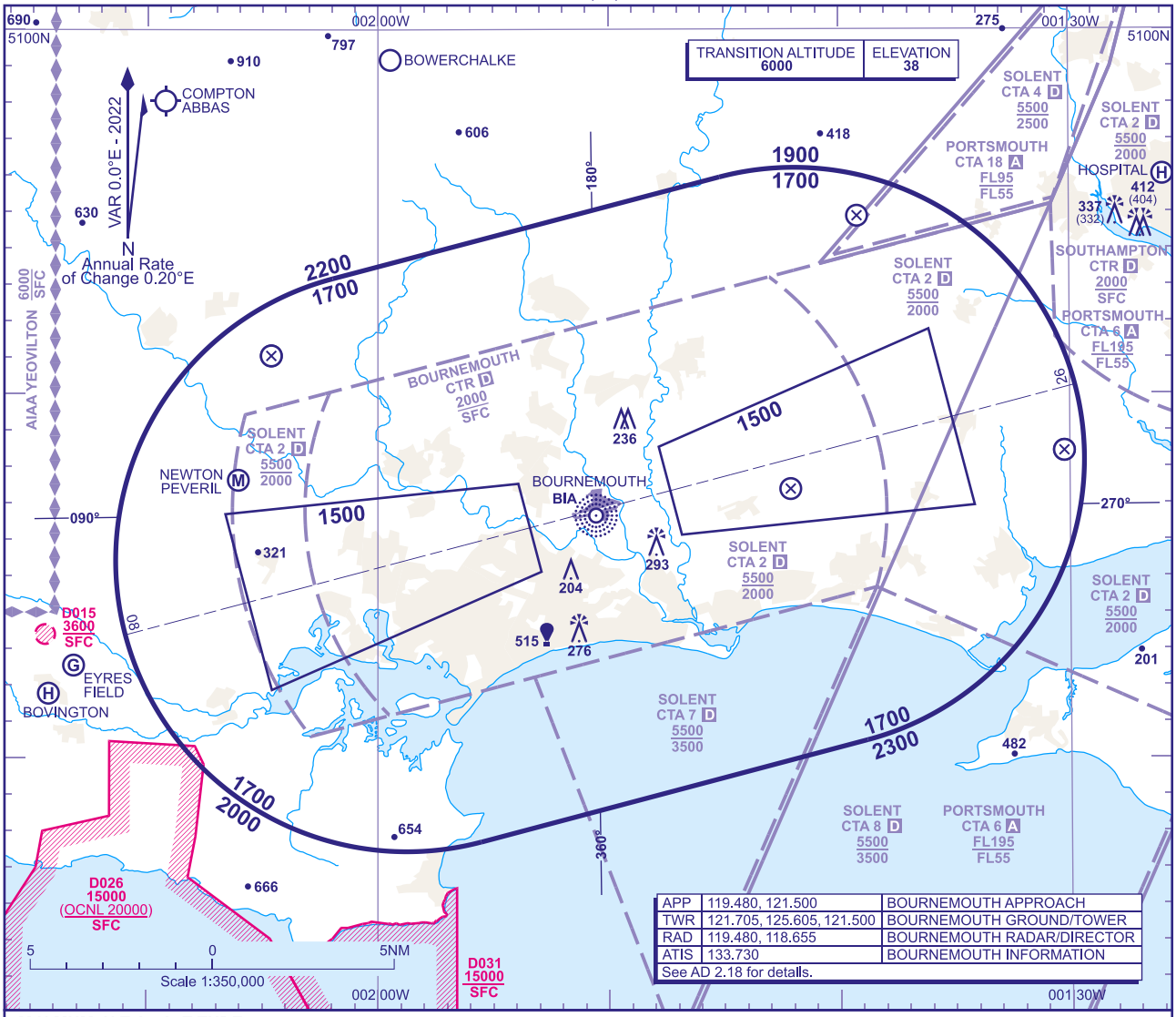
AERO INFO DATE 04 APR 25

AD 2-EGHH-2-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 293
HEIGHTS IN FEET AGL (293)

BOURNEMOUTH



APP	119.480, 121.500	BOURNEMOUTH APPROACH
TWR	121.705, 125.605, 121.500	BOURNEMOUTH GROUND/TOWER
RAD	119.480, 118.655	BOURNEMOUTH RADAR/DIRECTOR
ATIS	133.730	BOURNEMOUTH INFORMATION
See AD 2.18 for details.		

MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is **1700** in the sector defined by the lateral limits; 505310N 0020158W - 505557N 0014510W thence clockwise by an arc of a circle radius 8NM centred on 504813N 0014159W to 504029N 0013849W - 503742N 0015532W thence clockwise by an arc of a circle radius 8NM centred on 504526N 0015845W to 505310N 0020158W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum atltitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude or **1000** above any fixed obstacles:
a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.
*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher to **NDB(L) BIA**†.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) BIA**†.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA Is cleared to Intercept the final approach track.**

CHANGE (4/25): SPECIFICATION CHANGE. HOSPITAL HELI SITE ADDED.

AERO INFO DATE 24 JAN 25
AD 2-EGHH-5-1

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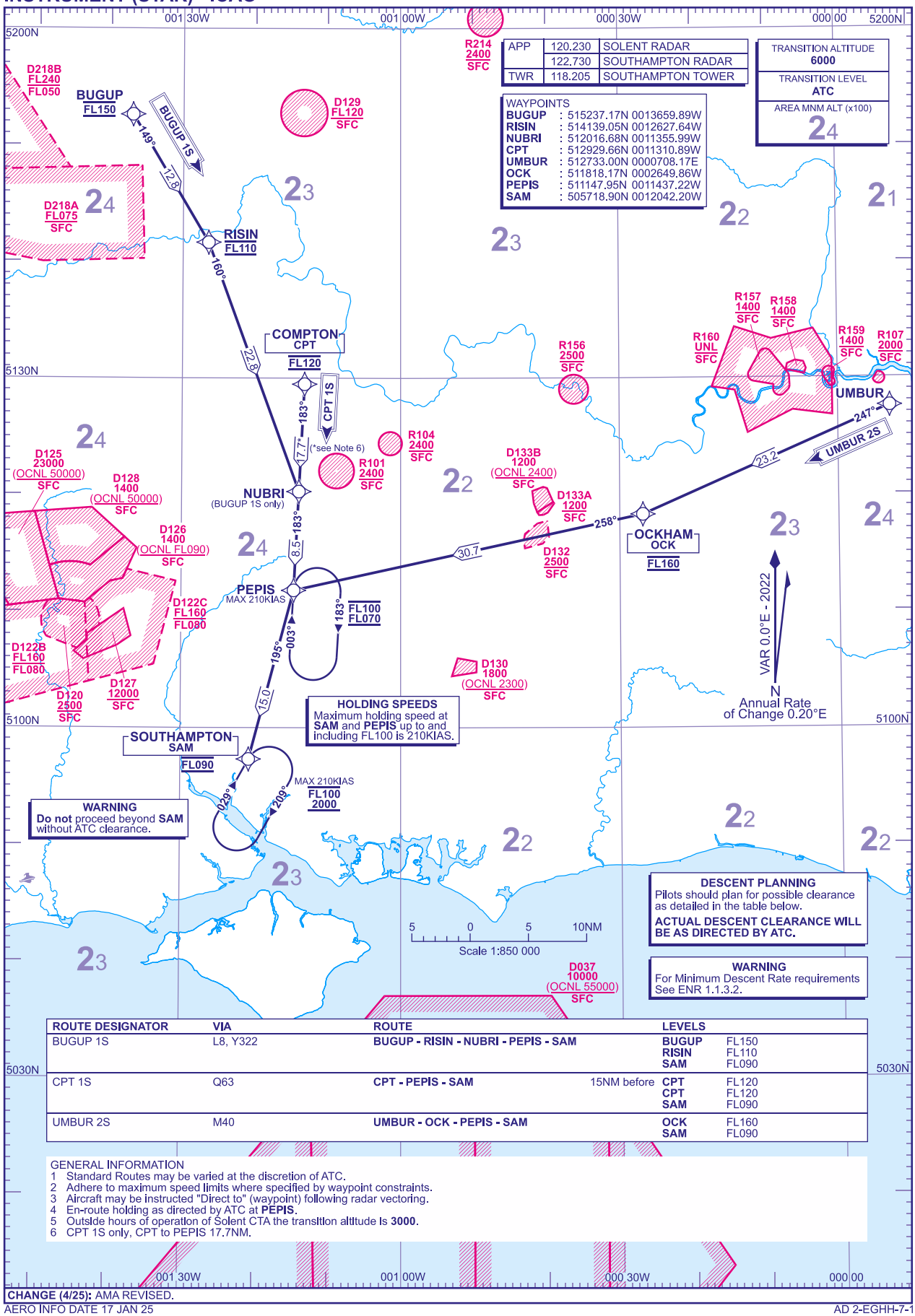
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

BOURNEMOUTH
BUGUP 1S CPT 1S UMBUR 2S



ROUTE DESIGNATOR	VIA	ROUTE		LEVELS	
BUGUP 1S	L8, Y322	**BUGUP - RISIN - NUBRI - PEPIS - SAM**		**BUGUP** **RISIN** **SAM**	FL150 FL110 FL090
CPT 1S	Q63	**CPT - PEPIS - SAM**	15NM before	**CPT** **CPT** **SAM**	FL120 FL120 FL090
UMBUR 2S	M40	**UMBUR - OCK - PEPIS - SAM**		**OCK** **SAM**	FL160 FL090

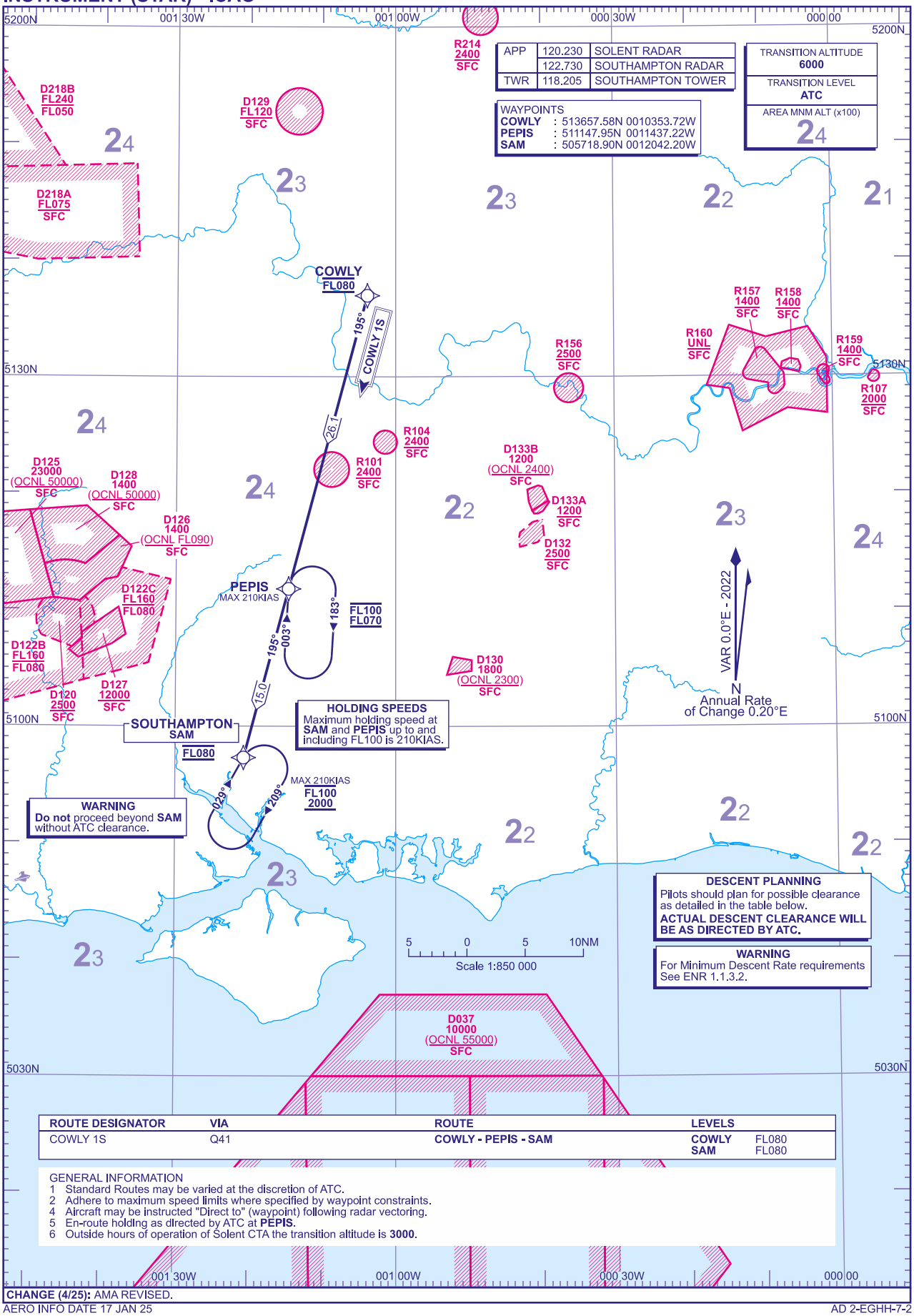
GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
4 En-route holding as directed by ATC at **PEPIS**.
5 Outside hours of operation of Solent CTA the transition altitude is **3000**.
6 CPT 1S only, CPT to PEPIS 17.7NM.

CHANGE (4/25): AMA REVISED.
AERO INFO DATE 17 JAN 25
AD 2-EGHH-7-1

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

BOURNEMOUTH COWLY 1S



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
COWLY 1S	Q41	COWLY - PEPIS - SAM	COWLY FL080 SAM FL080

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 En-route holding as directed by ATC at **PEPIS**.
6 Outside hours of operation of Solent CTA the transition altitude is **3000**.

CHANGE (4/25): AMA REVISED.

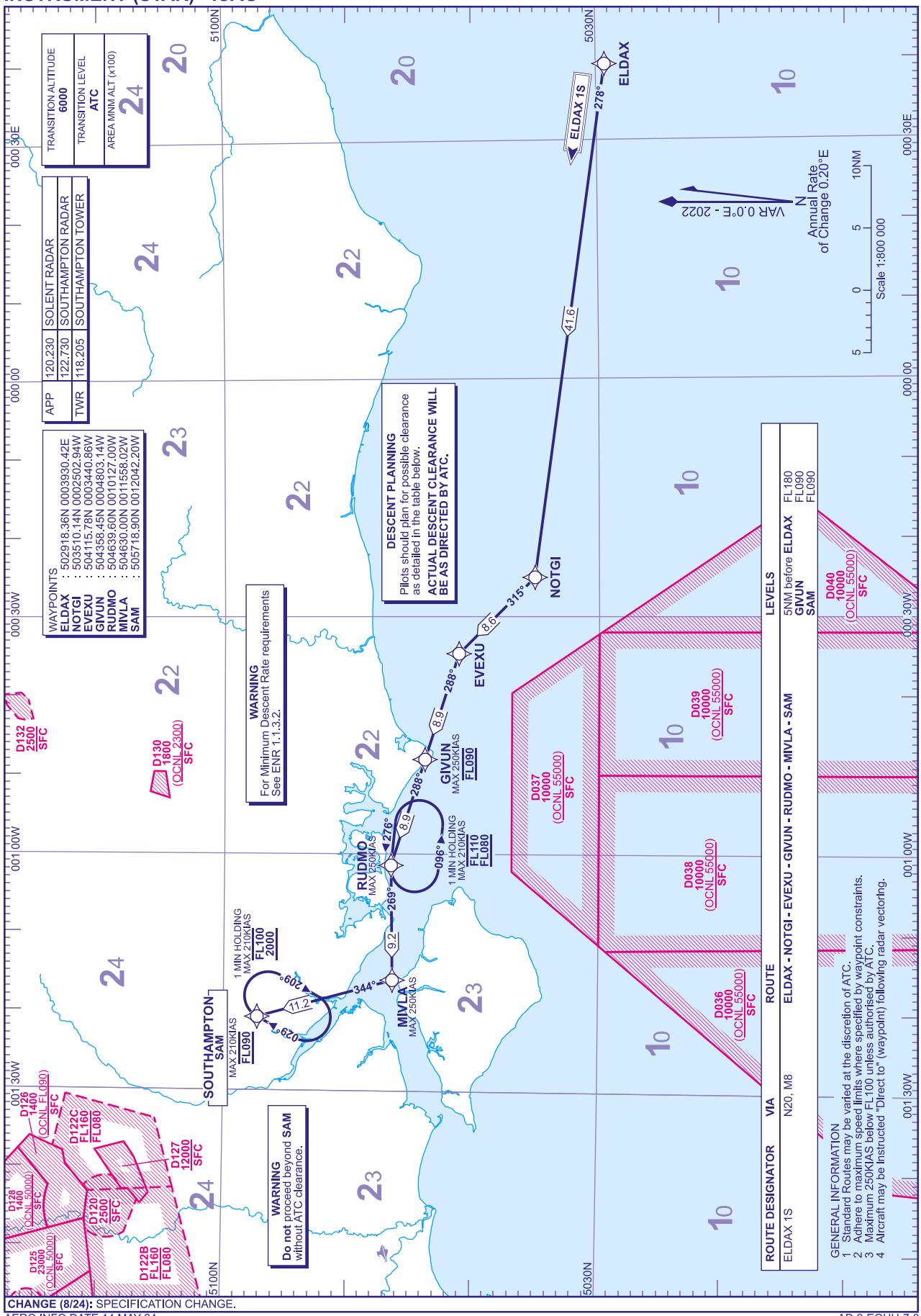
AERO INFO DATE 17 JAN 25

AD 2-EGHH-7-2

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BOURNEMOUTH ELDAX 1S



CHANGE (8/24): SPECIFICATION CHANGE.

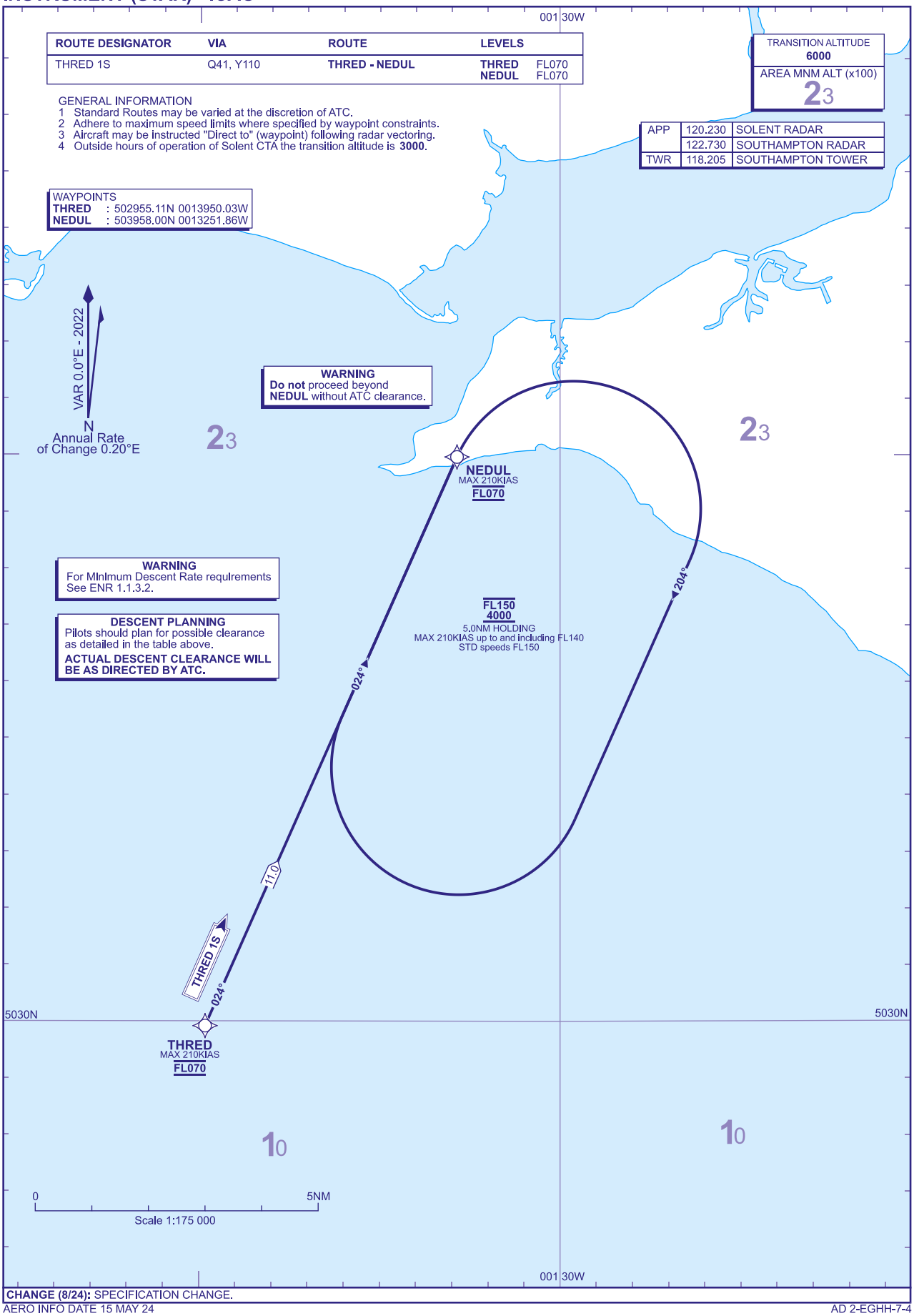
AERO INFO DATE 14 MAY 24

AD 2-EGHH-7-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BOURNEMOUTH THRED 1S



CHANGE (8/24): SPECIFICATION CHANGE.

AERO INFO DATE 15 MAY 24

AD 2-EGHH-7-4

Standard Instrument Arrival Coding Tables

BOURNEMOUTH BUGUP 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BUGUP1S	001	IF	BUGUP	515237.17N 0013659.89W	N	-	-	-	-	FL150	-	RNAV5
BUGUP1S	002	TF	RISIN	514139.05N 0012627.64W	N	149° (149.1°)	0.0	12.8	RIGHT	FL110	-	RNAV5
BUGUP1S	003	TF	NUBRI	512016.68N 0011355.99W	N	160° (159.8°)	0.0	22.8	RIGHT	-	-	RNAV5
BUGUP1S	004	TF	PEPIS	511147.95N 0011437.22W	N	183° (182.9°)	0.0	8.5	RIGHT	-	-210	RNAV5
BUGUP1S	005	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.0	15.0	-	FL090	-210	RNAV5

BOURNEMOUTH CPT 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CPT1S	001	IF	CPT	512929.66N 0011310.89W	N	-	-	-	-	FL120	-	RNAV5
CPT1S	002	TF	PEPIS	511147.95N 0011437.22W	N	183° (182.9°)	0.0	17.7	RIGHT	-	-210	RNAV5
CPT1S	003	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.0	15.0	-	FL090	-210	RNAV5

BOURNEMOUTH UMBUR 2S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
UMBUR2S	001	IF	UMBUR	512733.00N 0000708.17E	N	-	-	-	-	-	-	RNAV5
UMBUR2S	002	TF	OCK	511818.17N 0002649.86W	N	247° (246.7°)	0.0	23.2	RIGHT	FL160	-	RNAV5
UMBUR2S	003	TF	PEPIS	511147.95N 0011437.22W	N	258° (258.1°)	0.0	30.7	LEFT	-	-210	RNAV5
UMBUR2S	004	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.0	15.0	-	FL090	-210	RNAV5

BOURNEMOUTH COWLY 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
COWLY1S	001	IF	COWLY	513657.58N 0010353.72W	N	-	-	-	-	FL080	-	RNAV5
COWLY1S	002	TF	PEPIS	511147.95N 0011437.22W	N	195° (195.0°)	0.0	26.1	-	-	-210	RNAV5
COWLY1S	003	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.0	15.0	-	FL080	-210	RNAV5

CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 20 MAY 24

Standard Instrument Arrival Coding Tables

BOURNEMOUTH ELDAX 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ELDAX1S	001	IF	ELDAX	502918.36N 0003930.42E	N	-	-	-	-	-	-	RNAV5
ELDAX1S	002	TF	NOTGI	503510.14N 0002502.94W	N	278° (278.5°)	0.0	41.6	RIGHT	-	-	RNAV5
ELDAX1S	003	TF	EVEXU	504115.78N 0003440.86W	N	315° (314.9°)	0.0	8.6	LEFT	-	-	RNAV5
ELDAX1S	004	TF	GIVUN	504358.45N 0004803.14W	N	288° (287.8°)	0.0	8.9	-	FL090	-250	RNAV5
ELDAX1S	005	TF	RUDMO	504639.60N 0010127.00W	N	288° (287.6°)	0.0	8.9	LEFT	-	-250	RNAV5
ELDAX1S	006	TF	MIVLA	504630.00N 0011558.02W	N	269° (269.1°)	0.0	9.2	RIGHT	-	-250	RNAV5
ELDAX1S	007	TF	SAM	505718.90N 0012042.20W	N	344° (344.5°)	0.0	11.2	-	FL090	-210	RNAV5

BOURNEMOUTH THRED 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
THRED1S	001	IF	THRED	502955.11N 0013950.03W	N	-	-	-	-	FL070	-210	RNAV5
THRED1S	002	TF	NEDUL	503958.00N 0013251.86W	N	024° (023.8°)	0.0	11.0	-	FL070	-210	RNAV5

CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 13 MAY 24

RNAV Hold Coding Tables

BOURNEMOUTH NEDUL Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NEDUL	-	-	NEDUL	503958.00N 0013251.86W	Y	024° (023.9°)	0.0	5.0 NM	RIGHT	-FL150 +4000	-210*	RNAV5

*up to and including FL140
std speed FL150

BOURNEMOUTH PEPIS Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PEPIS	-	-	PEPIS	511147.95N 0011437.22W	Y	003° (003.5°)	0.0	1 MIN	RIGHT	-FL100 +FL070	-210	RNAV5

BOURNEMOUTH RUDMO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RUDMO	-	-	RUDMO	504639.60N 0010127.00W	Y	276° (275.9°)	0.0	1 MIN	LEFT	-FL110 +FL080	-210	RNAV5

BOURNEMOUTH SAM Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SAM	-	-	SAM	505718.90N 0012042.20W	Y	029° (029.5°)	0.0	1 MIN	RIGHT	-FL100 +2000	-210	RNAV5

CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 20 MAY 24

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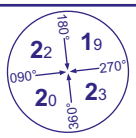
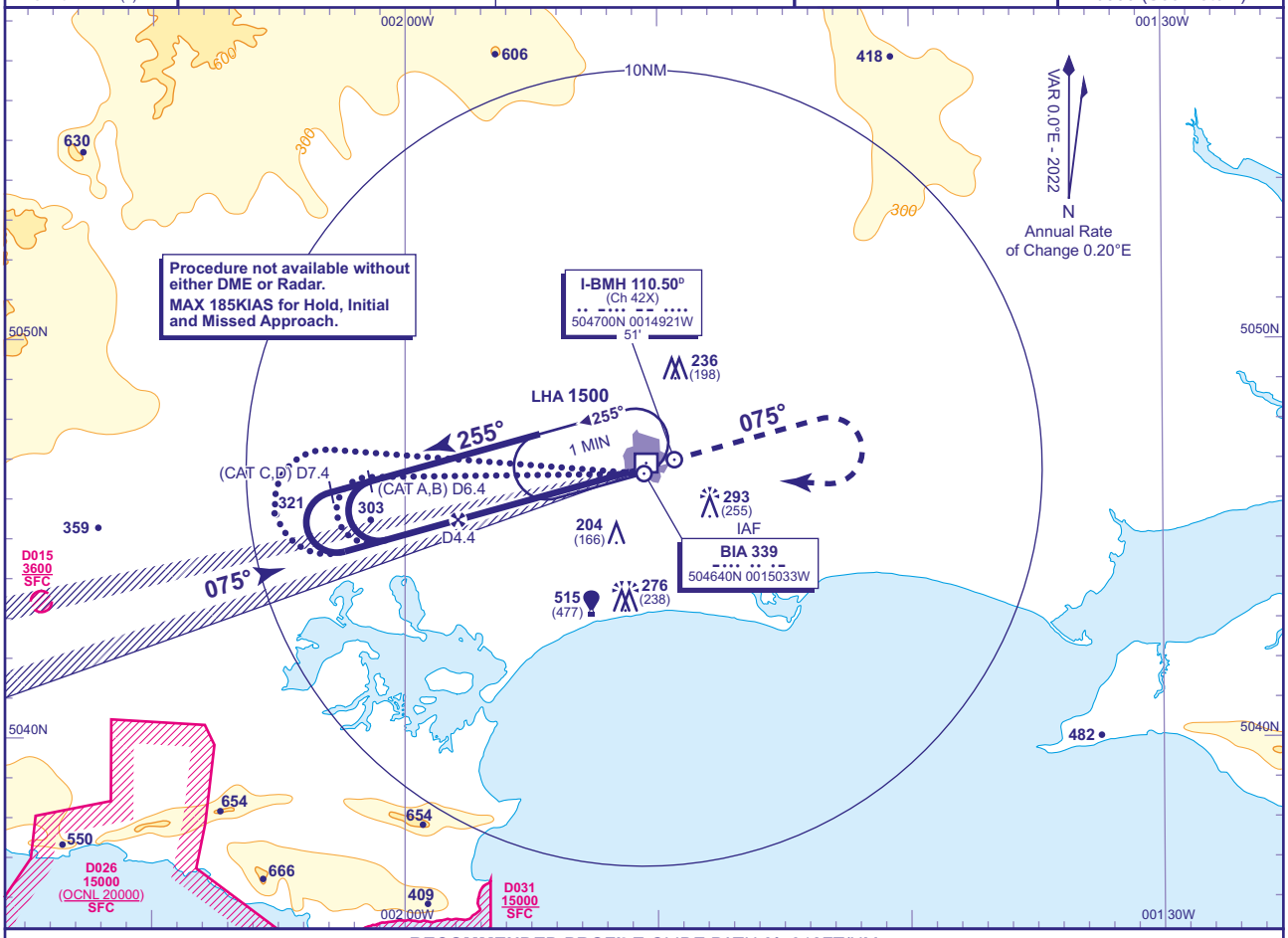
INSTRUMENT APPROACH CHART - ICAO

BOURNEMOUTH ILS/DME/NDB(L) RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BIA

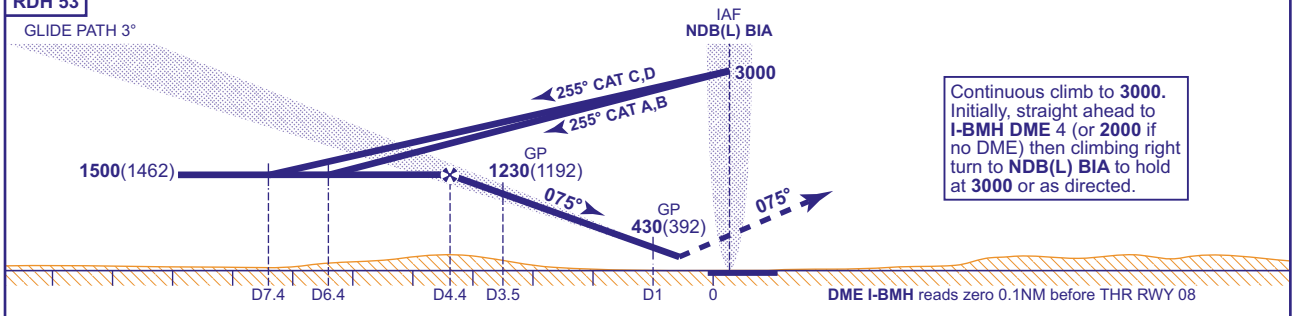
APP	119.480 (120.230 SOLENT)	BOURNEMOUTH APPROACH	AD ELEVATION	38	TRANSITION ALTITUDE
TWR	125.605	BOURNEMOUTH TOWER	THR ELEVATION	38	**6000** (See Note 2)
	121.705	BOURNEMOUTH GROUND	OBSTACLE ELEVATION		
RAD	119.480 (118.655 DIRECTOR)	BOURNEMOUTH RADAR	**293 AMSL** (255) (ABOVE THR)		
ATIS	133.730	BOURNEMOUTH INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-BMH	4	3	2	1
ALT(HGT)	**1390**(1352)	**1070**(1032)	**750**(712)	**430**(392)

RDH 53



Continuous climb to **3000.** Initially, straight ahead to **I-BMH DME** 4 (or **2000** if no DME) then climbing right turn to **NDB(L) BIA** to hold at **3000** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**177**(139)	**187**(149)	**198**(160)	**212**(174)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(562)	**600**(562)	**1000**(962)	**1000**(962)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE BASETURN Procedure
From overhead NDB(L) BIA (IAF) not below **3000** fly outbound on QDM 270° (CAT A,B), 275° (CAT C,D) descending to **1500**. At I-BMH DME 6.4 (CAT C,D DME 7.4) baseturn left to establish on the LOC. Once established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-BMH
Advise ATC. As for main and alternative procedures with DME. Radar Ranges will be provided at 6.4NM (CAT A,B) and 7.4NM (CAT C,D) outbound, and approaching the GP and at 3.5NM.

NOTE
1 This procedure and its associated protection areas are not totally contained within Controlled Airspace.
2 Outside hours of operation of Solent CTA the transition altitude is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (14/20): FREQUENCIES.

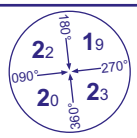
AERO INFO DATE 15 OCT 20

AD 2-EGHH-8-1

INSTRUMENT APPROACH CHART - ICAO

BOURNEMOUTH LOC/DME/NDB(L) RWY 08

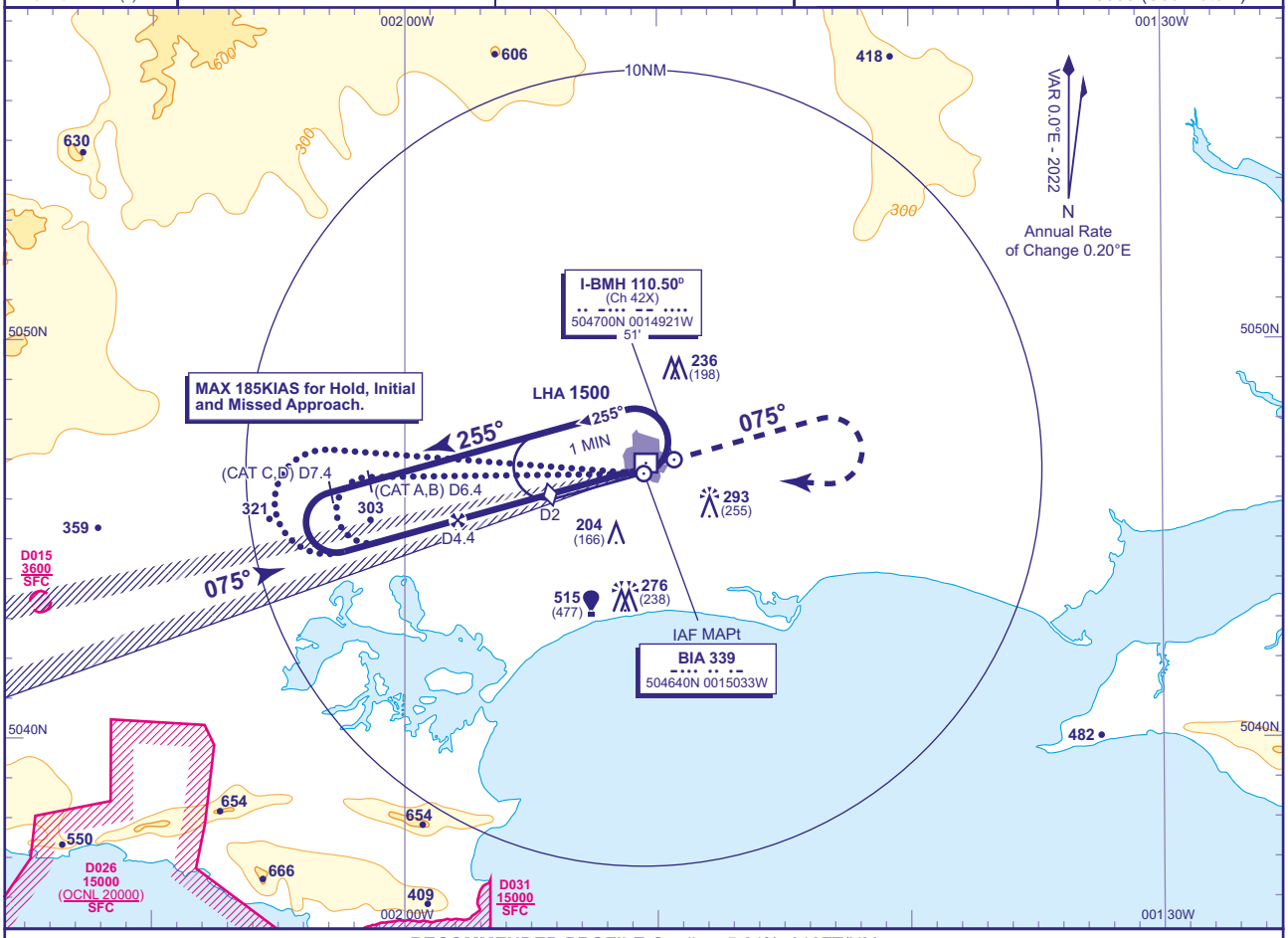
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BIA

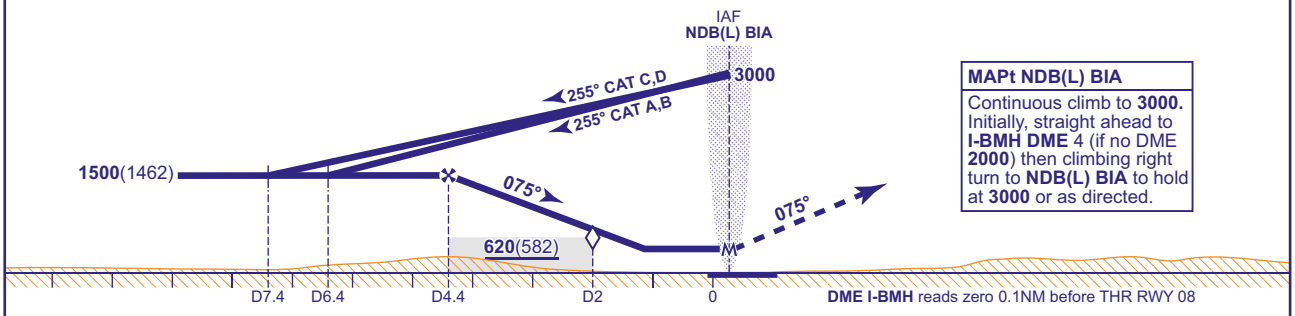
APP	119.480 (120.230 SOLENT)	BOURNEMOUTH APPROACH	AD ELEVATION	38
TWR	125.605	BOURNEMOUTH TOWER	THR ELEVATION	38
	121.705	BOURNEMOUTH GROUND	OBSTACLE ELEVATION	
RAD	119.480 (118.655 DIRECTOR)	BOURNEMOUTH RADAR	293 AMSL (255) (ABOVE THR)	
ATIS	133.730	BOURNEMOUTH INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
6000 (See Note 2)



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-BMH	4	3	2 **(SDF)**	1
ALT(HGT)	**1390**(1352)	**1070**(1032)	**750**(712)	**430**(392)



MAPt NDB(L) BIA
Continuous climb to **3000.** Initially, straight ahead to **I-BMH DME** 4 (if no DME **2000**) then climbing right turn to **NDB(L) BIA** to hold at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**380**(342)	**380**(342)	**380**(342)	**380**(342)
	NO DME	**670**(632)	**670**(632)	**670**(632)	**670**(632)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(562)	**600**(562)	**1000**(962)	**1000**(962)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE BASETURN Procedure
From overhead NDB(L) BIA (IAF) not below **3000** fly outbound on QDM 270° (CAT A,B), 275° (CAT C,D) descending to **1500**. At I-BMH DME 6.4 (CAT C,D DME 7.4) baseturn left to establish on the LOC. Once established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-BMH
Advise ATC. As for main and alternative procedures with DME except fly outbound prior to base turn for 3MIN (CAT A,B) and 2MIN (CAT C,D). When established on localiser descend to MDH.

NOTE **1** This procedure and its associated protection areas are not totally contained within Controlled Airspace.
2 Outside hours of operation of Solent CTA the transition altitude is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (14/20): FREQUENCIES.

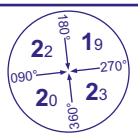
AERO INFO DATE 15 OCT 20

AD 2-EGHH-8-2

INSTRUMENT APPROACH CHART - ICAO

BOURNEMOUTH NDB(L)/DME RWY 08

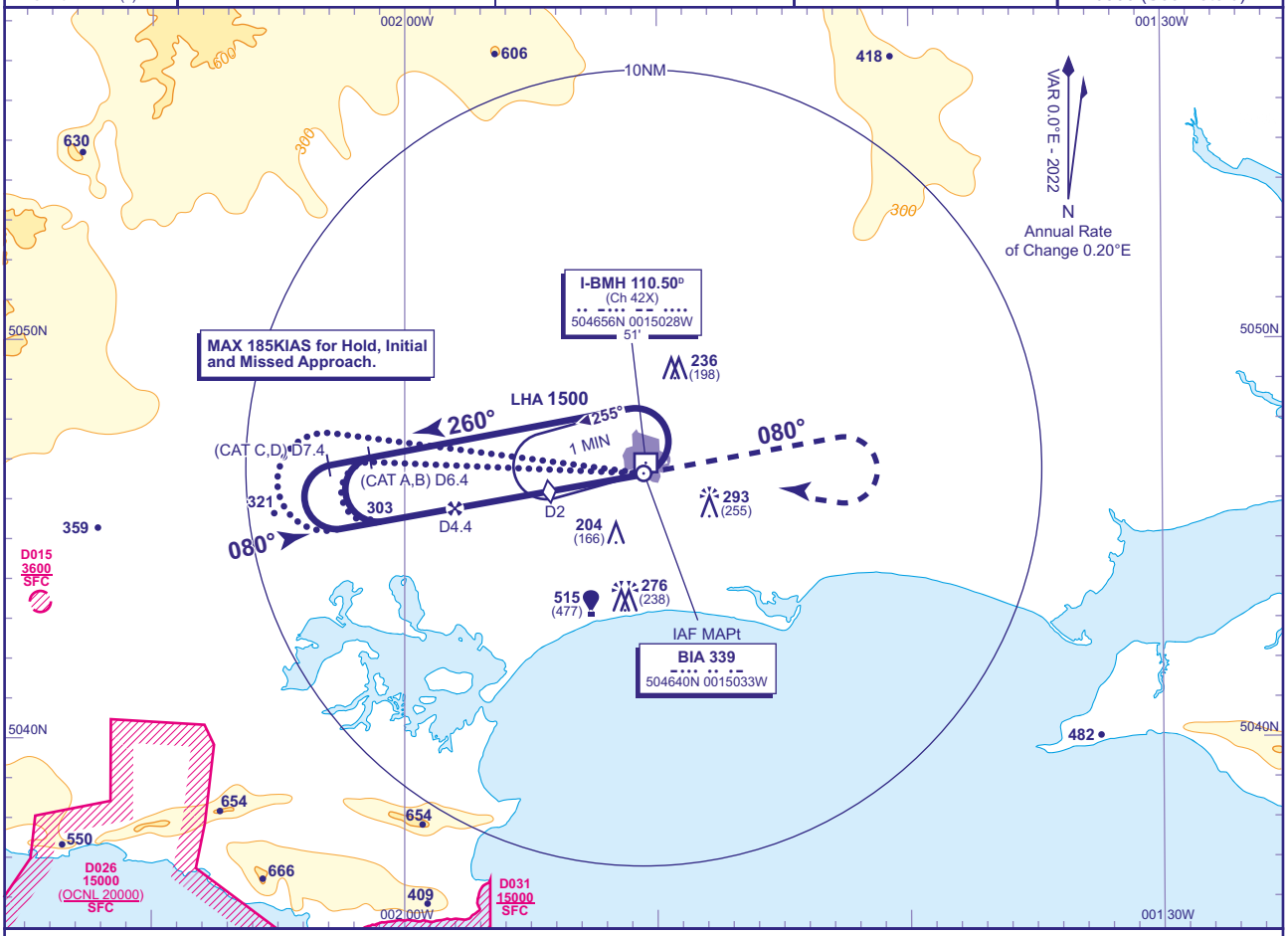
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BIA

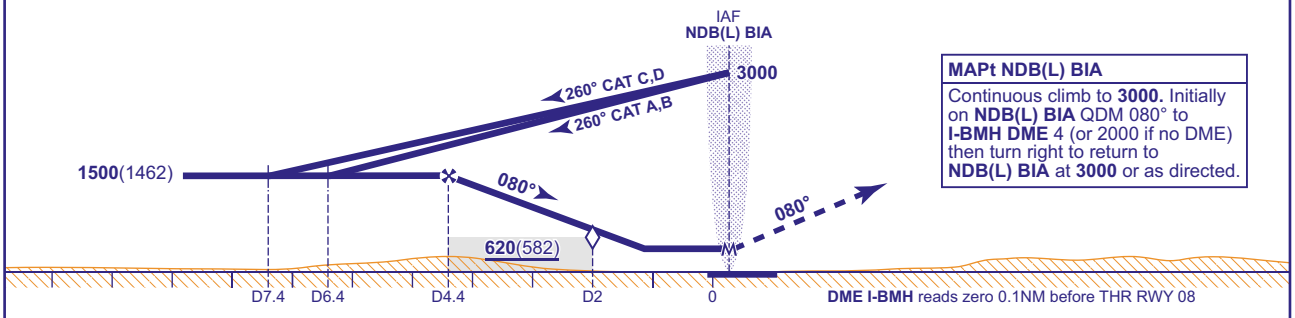
APP	119.480 (120.230 SOLENT)	BOURNEMOUTH APPROACH	AD ELEVATION	38
TWR	125.605	BOURNEMOUTH TOWER	THR ELEVATION	38
	121.705	BOURNEMOUTH GROUND	OBSTACLE ELEVATION	
RAD	119.480 (118.655 DIRECTOR)	BOURNEMOUTH RADAR	293 AMSL (255) (ABOVE THR)	
ATIS	133.730	BOURNEMOUTH INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (See Note 3)



RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM

DME I-BMH	4	3	2 **(SDF)**	1
ALT(HGT)	**1370**(1332)	**1060**(1022)	**740**(702)	**430**(392)



MAPt NDB(L) BIA

Continuous climb to **3000**. Initially on **NDB(L) BIA** QDM 080° to **I-BMH DME** 4 (or 2000 if no DME) then turn right to return to **NDB(L) BIA** at **3000** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**WITH DME**	**470**(432)	**470**(432)	**470**(432)	**470**(432)
	NO DME	**670**(632)	**670**(632)	**670**(632)	**670**(632)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(562)	**600**(562)	**1000**(962)	**1000**(962)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	740	630	530	420

ALTERNATIVE PROCEDURE BASETURN From overhead NDB(L) BIA (IAF) not below **3000**, fly outbound on NDB(L) BIA QDM 273° (CAT A,B), NDB(L) BIA QDM 278° (CAT C,D) descending to not below **1500**(1462). At I-BMH DME 6.4 (CAT A,B) 7.4 (CAT C,D) baseturn left to establish on the FAT. Once established, continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-BMH Advise ATC. As for main and alternative procedures with DME except fly outbound prior to base turn for 3MIN (CAT A,B) and 2MIN (CAT C,D). When established on FAT descend to MDH.

NOTE
1. FAT is offset 4.4° from RWY C/L.
2. This procedure and its associated protection areas are not totally contained within Controlled Airspace.
3. Outside hours of operation of Solent CTA the transition altitude is **3000**.
4. Aircraft will normally be required to hold not lower than **3000**.

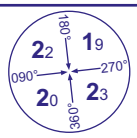
CHANGE (14/20): FREQUENCIES.

AERO INFO DATE 15 OCT 20

AD 2-EGHH-8-3

INSTRUMENT APPROACH CHART - ICAO

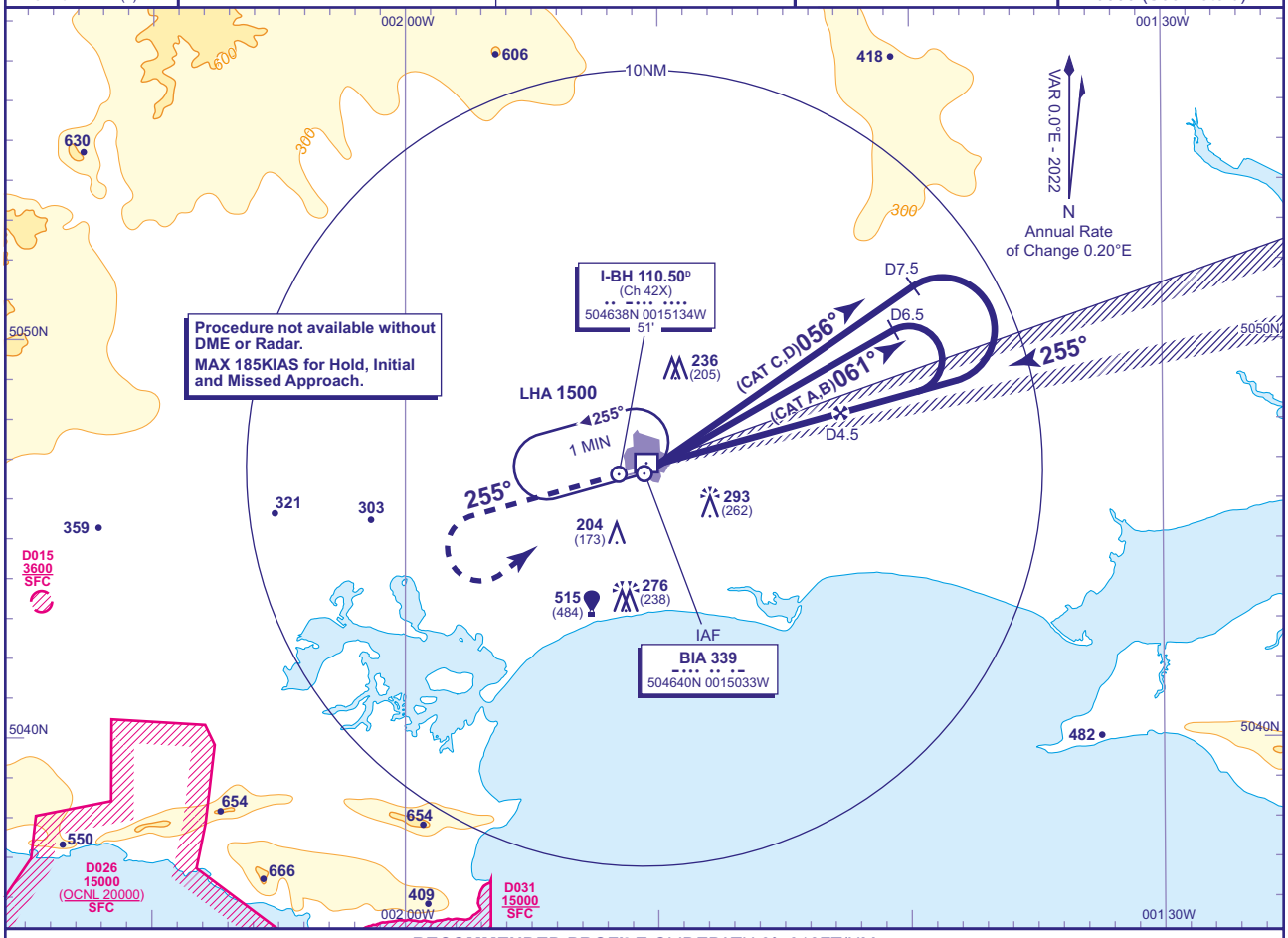
BOURNEMOUTH ILS/DME/NDB(L) RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BIA

APP	119.480 (120.230 SOLENT)	BOURNEMOUTH APPROACH	AD ELEVATION	38
TWR	125.605	BOURNEMOUTH TOWER	THR ELEVATION	31
	121.705	BOURNEMOUTH GROUND	OBSTACLE ELEVATION	
RAD	119.480 (118.655 DIRECTOR)	BOURNEMOUTH RADAR	**293 AMSL** (262) (ABOVE THR)	
ATIS	133.730	BOURNEMOUTH INFORMATION	BEARINGS ARE MAGNETIC	

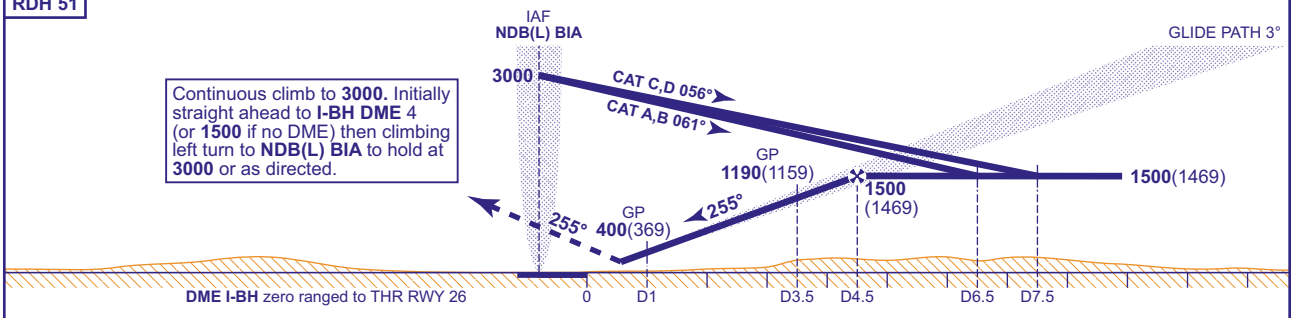
TRANSITION ALTITUDE **6000** (See Note 3)



RECOMMENDED PROFILE GLIDEPATH 3°, 318FT/NM

DME I-BH	4	3	2	1
ALT(HGT)	**1350**(1319)	**1040**(1009)	**720**(689)	**400**(369)

RDH 51



Continuous climb to **3000.** Initially straight ahead to **I-BH DME** 4 (or **1500** if no DME) then climbing left turn to **NDB(L) BIA** to hold at **3000** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**195**(164)	**202**(171)	**210**(179)	**220**(189)
	CAT II	**90**(59)	**101**(70)	**112**(81)	**125**(94)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(562)	**600**(562)	**1000**(962)	**1000**(962)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-BH
Advise ATC. Radar Ranges will be provided at 6.5NM (CAT A,B) and 7.5NM (CAT C,D) outbound and at 4.5NM and 3NM inbound.

NOTE **1** Aircraft will normally be required to hold not lower than **3000.**
2 This procedure and its associated protection areas are not totally contained within Controlled Airspace.
3 Outside hours of operation of Solent CTA the transition altitude is **3000**.

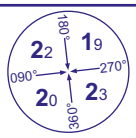
CHANGE (14/20): FREQUENCIES.

AERO INFO DATE 15 OCT 20 AD 2-EGHH-8-4

INSTRUMENT APPROACH CHART - ICAO

BOURNEMOUTH LOC/DME/NDB(L) RWY 26

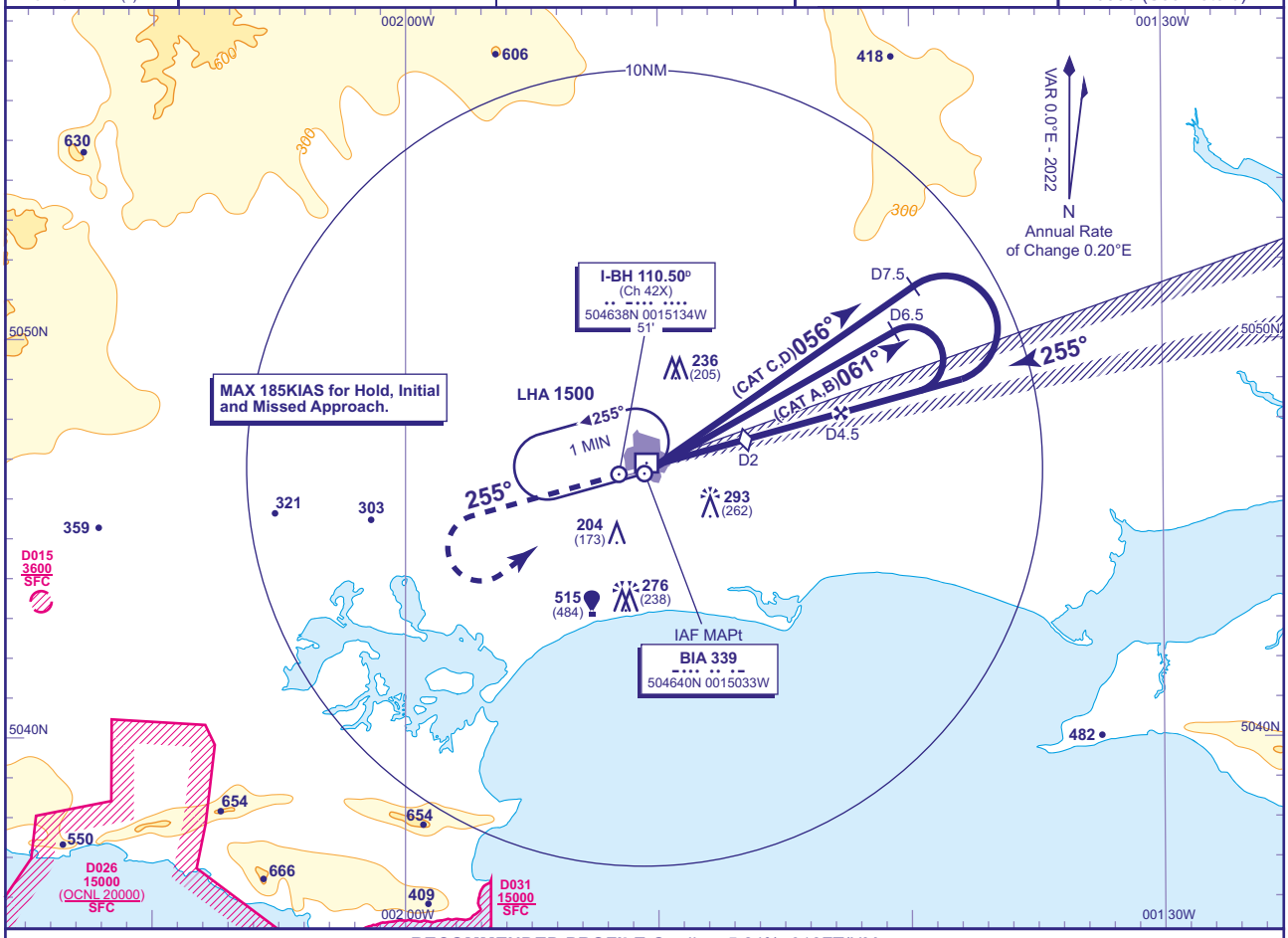
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BIA

APP	119.480 (120.230 SOLENT)	BOURNEMOUTH APPROACH	AD ELEVATION	38
TWR	125.605	BOURNEMOUTH TOWER	THR ELEVATION	31
	121.705	BOURNEMOUTH GROUND	OBSTACLE ELEVATION 293 AMSL (262) (ABOVE THR)	
RAD	119.480 (118.655 DIRECTOR)	BOURNEMOUTH RADAR		
ATIS	133.730	BOURNEMOUTH INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (See Note 3)

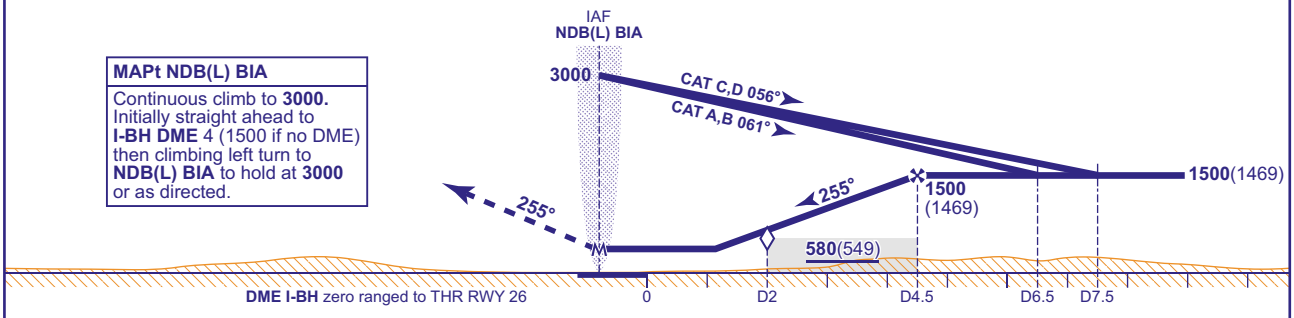


RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-BH	4	3	2 **(SDF)**	1
ALT(HGT)	**1350**(1319)	**1040**(1009)	**720**(689)	**400**(369)

MAPt NDB(L) BIA

Continuous climb to **3000.**
Initially straight ahead to **I-BH DME** 4 (1500 if no DME) then climbing left turn to **NDB(L) BIA** to hold at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**380**(349)	**380**(349)	**380**(349)	**380**(349)
	NO DME	**630**(599)	**630**(599)	**630**(599)	**630**(599)
VM(C)OCA (OCH AAL)	Total Area	**600**(562)	**600**(562)	**1000**(962)	**1000**(962)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	540	420

AIRCRAFT UNABLE TO RECEIVE DME I-BH
Advise ATC. Fly outbound for 3MIN (CAT A,B) and 2MIN (CAT C,D) prior to base turn right to establish on the LOC. Once established on LOC descend to MDH.
ATC will provide a radar range equivalent to DME 4 if missed approach is required.

NOTE
1 Aircraft will normally be required to hold not lower than **3000.**
2 This procedure and its associated protection areas are not totally contained within Controlled Airspace.
3 Outside hours of operation of Solent CTA the transition altitude is **3000**.

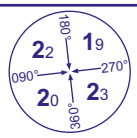
CHANGE (14/20): FREQUENCIES.

AERO INFO DATE 15 OCT 20

AD 2-EGHH-8-5

INSTRUMENT APPROACH CHART - ICAO

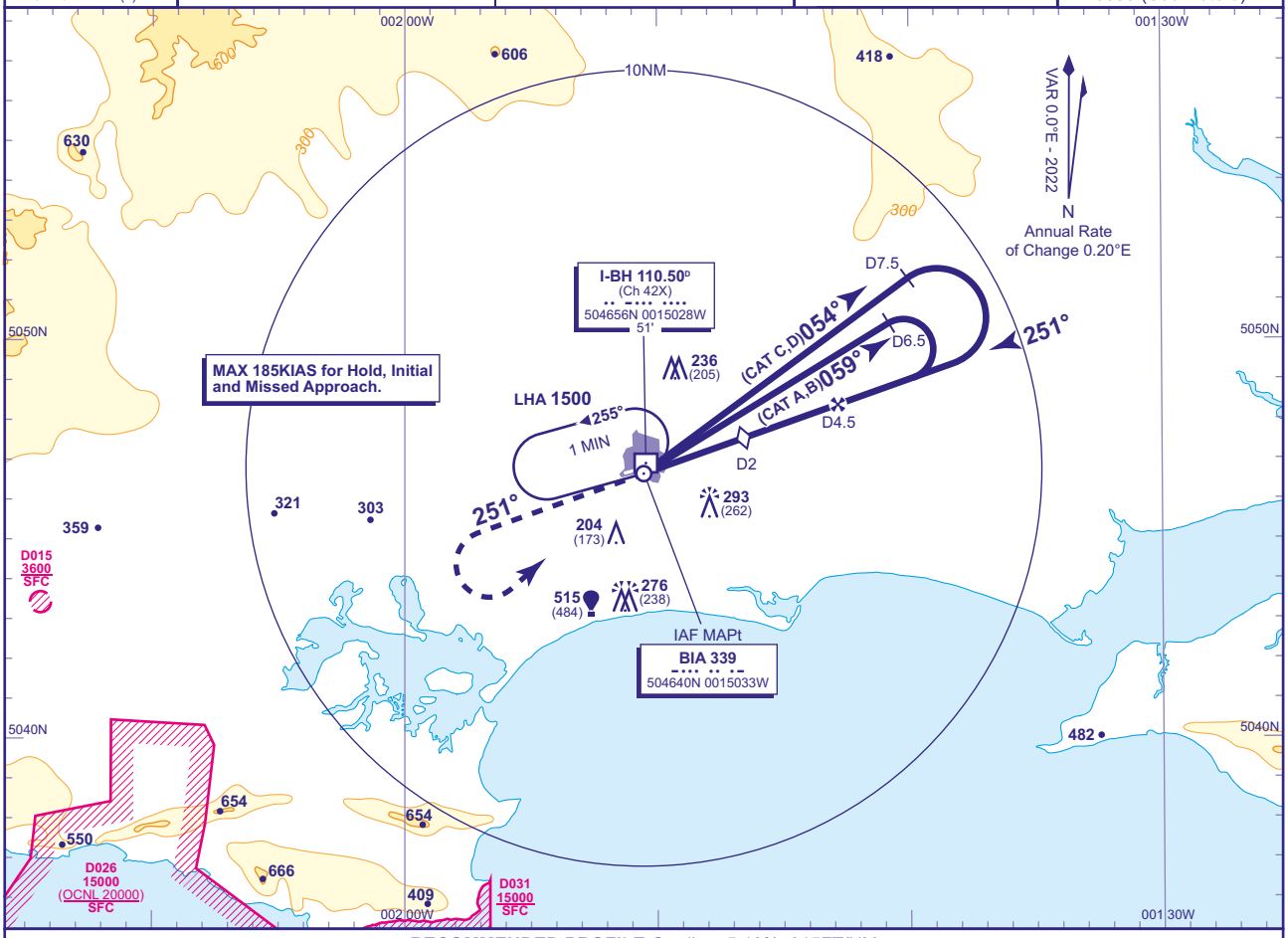
BOURNEMOUTH NDB(L)/DME RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BIA

APP	119.480 (120.230 SOLENT)	BOURNEMOUTH APPROACH	AD ELEVATION	38	
TWR	125.605	BOURNEMOUTH TOWER	THR ELEVATION	31	
	121.705	BOURNEMOUTH GROUND	OBSTACLE ELEVATION		
RAD	119.480 (118.655 DIRECTOR)	BOURNEMOUTH RADAR	**293 AMSL** (262) (ABOVE THR)		
ATIS	133.730	BOURNEMOUTH INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000** (See Note 3)

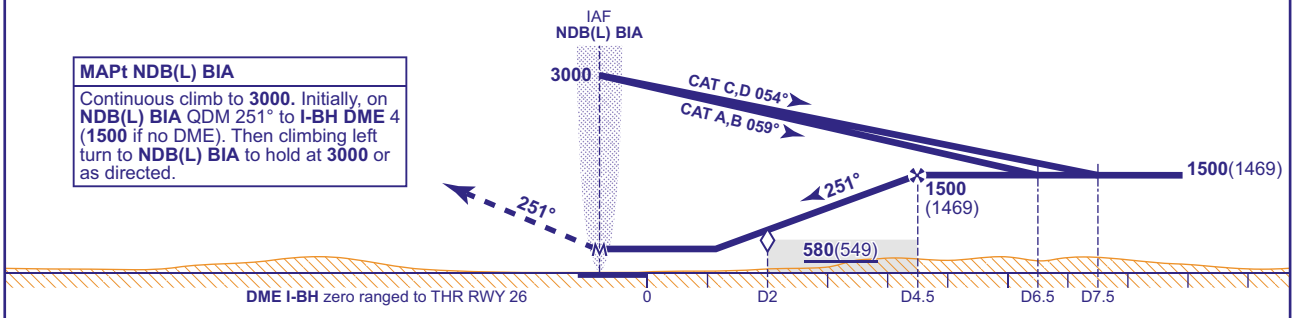


RECOMMENDED PROFILE Gradient 5.19%, 315FT/NM

DME I-BH	4	3	2 **(SDF)**
ALT(HGT)	**1340**(1309)	**1030**(999)	**710**(679)

MAPt NDB(L) BIA

Continuous climb to **3000.** Initially, on **NDB(L) BIA** QDM 251° to **I-BH DME** 4 (**1500** if no DME). Then climbing left turn to **NDB(L) BIA** to hold at **3000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	**WITH DME**	**410**(379)	**410**(379)	**410**(379)	**410**(379)		**FT/MIN**	840	740	630	530	420
	NO DME	**630**(599)	**630**(599)	**630**(599)	**630**(599)							
VM(C)OCA (OCH AAL)	**Total Area**	**600**(562)	**600**(562)	**1000**(962)	**1000**(962)							

AIRCRAFT UNABLE TO RECEIVE DME I-BH
Substitute timing for distance prior to descending base turn 3MIN (CAT A,B); 2.5MIN (CAT C,D). When established on FAT descend to MDH.

NOTE
1 FAT is offset 4° from RWY C/L.
2 This procedure and its associated protection areas are not totally contained within Controlled Airspace.
3 Outside hours of operation of Solent CTA the transition altitude is **3000**.
4 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (14/20): FREQUENCIES.

AERO INFO DATE 15 OCT 20 AD 2-EGHH-8-6

EGGD — BRISTOL

EGGD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGGD — BRISTOL

EGGD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 512258N Long: 0024309W Mid point of Runway 09/27.
2	Direction and distance from city	7 NM SW of Bristol.
3	Elevation / Reference temperature / Mean Low Temperature	622 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	164 FT
5	Magnetic Variation / Annual Change	0.36°W (2022) / 0.20°E
6	AD Administration Address Telephone Telefax	BRISTOL AIRPORT LTD Bristol Airport, Bristol, BS48 3DY. 01275-473712 (ATC/TWR) 01275-473713 (ATC/TWR) 01275-473714 (ATC/TWR) 01275-474800 01275-474482 (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All telephone calls to ATC will be recorded.

EGGD AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24 Subject to notified movements
3	Health and sanitation	
4	AIS Briefing Office	H24 Self-briefing.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	H24 Self-briefing.
7	ATS	H24 See also AD 2.18.
8	Fuelling	AVTUR JET A-1: 0500-2359 (H24); and by arrangement. Sustainable Aviation Fuel: Available by arrangement from Centreline, Tel: 01174-502763.
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Between 2300-0700 (2200-0600) Prior Permission Required. A night surcharge will apply to all landings between 2200-0700 (2100-0600).

EGGD AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1
3	Fuelling facilities/capacity	Up to 1600 lt/Minute.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited. For light aircraft only on the southside.
6	Repair facilities for visiting aircraft	Limited for light aircraft.

7	Remarks	Oxygen available on request. Mandatory handling for all aircraft. Handling agencies are: Centreline: Tel: 01174-502763; Channel: 131.965. DHL: Tel: 01275-473554 or 01275-473629. Swissport: Tel: 01275-472776; Fax: 01275-474514. Due to limited General Aviation parking facilities on the south side of the aerodrome, no further aircraft are to be based without prior permission from the appropriate mandated handling agent. PPR for all non-based aircraft requiring overnight parking on the south side of the aerodrome from the appropriate mandated handling agent.

EGGD AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel on aerodrome.
2	Restaurants	Restaurant, Cocktail bar
3	Transportation	Buses, taxis, trains. Nearest railway station Bristol Temple Meads 7 NM.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Bureau de change.
6	Tourist Office	
7	Remarks	

EGGD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A8 RFF Category 9 accepted under remission.
2	Rescue equipment	1x Fire Command Vehicle, 1x Major Foam Appliance, 4x Major Foam Appliances with Extending Boom Technology.
3	Capability for removal of disabled aircraft	120,000 KG MTWA (if tow bar available and aircraft can be rolled). Full list of equipment available from RFFS. Contact: 01275-473690 (Watch Room).
4	Remarks	

EGGD AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Runway 09/27. Taxiway A, B, G, Z. Apron.
3	Remarks	Runway de-iced/anti-iced with KFOR/NAAC.

EGGD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	EAST APRON Surface: Concrete and asphalt PCN Concrete: 51/R/C/W/T Asphalt: 51/F/C/W/T GRASS PARKING AREA Surface: Grass MAIN APRON Surface: Concrete and asphalt PCN Concrete: 51/R/C/W/T Asphalt: 51/F/C/W/T SOUTHERN PARKING AREA Surface: Asphalt PCN 30/F/C/W/T WEST APRON Surface: Concrete PCN 51/R/C/W/T
2	Taxiway width, surface and strength	Taxiway A: 22 M Surface: Asphalt PCN 51/F/C/W/T Taxiway B: 46 M Surface: Asphalt PCN 53/F/C/W/T Taxiway D: 22 M Surface: Asphalt PCN 42/F/C/W/T Taxiway F: 15 M Surface: Asphalt PCN 25/F/C/W/T Taxiway G: 22 M Surface: Asphalt PCN 51/F/C/W/T Taxiway H: 10.5 M Surface: Asphalt PCN 20/F/C/Y/T Taxiway J: 15 M Surface: Asphalt PCN 30/F/C/W/T Taxiway TAXILANE LINK C: 15 M Surface: Concrete PCN 51/R/C/W/T Taxiway Z: 22 M Surface: Asphalt PCN 51/F/C/W/T
3	Altimeter checkpoint location and elevation	Main Apron 595 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.

6	Remarks	Taxiway D: A 10 metre section of the longitudinal gradient increases up to 1.83% Taxiway F: A 220 metre section of the longitudinal gradient increases up to 2.65% Taxiway G: A 230 metre section of the longitudinal gradient increases up to 1.74% Taxiway Z: A 100 metre section of the longitudinal gradient increases up to 2.11% The following minimum main gear clearance to edge of pavement are provided for A330 operations: AX onto runway 4.1 M GX onto runway 3.1 M AX from runway 4.0 M BX from runway 3.3 M GX from runway 3.0 M

EGGD AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1- 6 are nose in/push back stands adjacent to the terminal building. Stand 7N is a nose in/push back stand at the head of the cul-de-sac serving Stands 5 - 9. Stands 14 - 16 and 17 - 20 are nose in/push back stands. Stands 7 - 12 are nose in/push back or taxi through stands as appropriate. Stands 8 - 11 inclusive have both East and West stand blocks installed. Inbound aircraft shall follow the instructions of the marshaller or Follow Me vehicle in order to be parked in an east or west configuration, as instructed. Stands 21, 26, 26L, 29 and 30 are nose in/push back stands. Stands 22 and 23 are nose in/push back stands. The routine push back for these stands is into Link Charlie to face east. Stands 24, 25 and 26R are nose in/push back stands. The routine push back for these stands is into Link Charlie to face west. Stand 28E is a taxi through stand when stand 26L is unoccupied. Stands 31 and 33 are nose in/push back or taxi through stands as appropriate. Stand 28W is a taxi through stand. Night stopping aircraft allocated to Stand 28 shall be marshalled to park facing west. Stands 32 and 34-40 inclusive are nose in/push back stands. W2, W3 and E2 are north facing, nose in/push back off-stand parking positions. W1, W4, E1 and E3 are south facing off-stand parking positions. W5, W6, W7 and W8 are self-manoeuvring off-stand parking positions. All stands must be used under marshalling guidance to provide stop information to pilots. In the event of there being no marshaller present upon approach to the stand, flight crews should hold position on the taxiway or taxilane centre-line and inform ATC that they are awaiting a marshaller (ATC shall request a marshaller from Airside Operations if the ground handling agent is not immediately available).
2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: Displaced threshold markings and designators on Runway 27. Threshold markings and designators on Runway 09. Fixed distance markings on Runways 09 and 27, centre-line markings. Runway guard lights are located at all taxiway/runway intersections. Taxiway marking aid(s):

		Taxiway holding point markings. Amber/green lead-on/off lines on Taxiways A and G.
3	Stop bars and runway guard lights (if any)	Located at AX, BX, DX, FX, GX, HX, JX (All H24) and G2, G3, Z1, Z2, Z3 and Z4.
4	Other runway protection measures	
5	Remarks	3 WDI (LGTD) - 512300.39N 0024340.88W, 512251.26N 0024314.82W, 512254.28N 0024241.05W

EGGD AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
INTENTIONALLY BLANK					

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGGD8430)	MAST	512357.48N 0023843.56W	888 FT	154 FT	Yes Red	
(EGGD9114)	MAST	512342.82N 0024237.57W	747 FT	89 FT	Yes Red	
(EGGD8927)	MAST	511829.01N 0024314.74W	1158 FT	137 FT	No	
(EGGD8665)	MAST	511413.46N 0023731.39W	1963 FT	973 FT	Yes Red	

EGGD AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 Hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Telephone
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	METFORM 214-215. 24 Hour MSLP forecast. Eur Sig WX, Upperwinds/Temp. AIRMET Southern. AIRMET Scottish, AIRMET Northern.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	BRISTOL APP
10	Additional information (limitation of service, etc.)	

EGGD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
09	086.43°	2011 x 45 M	RWY surface: Asphalt, Grooved PCN 51/F/C/W/T	512255.59N 0024400.61W 163.9 FT	THR 613.5 FT TDZ 621.9 FT	RWY 09 0.15% down RWY 27 0.15% up

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
27	266.45°	2011 x 45 M	RWY surface: Asphalt, Grooved PCN 51/F/C/W/T	512259.37N 0024223.50W 163.8 FT	THR 600.9 FT TDZ 601.3 FT	RWY 09 0.15% down RWY 27 0.15% up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	122 x 150 M	2131 x 280 M				RWY 09 Pilots should note that when using Runway 09, there is a 240 M area of the runway that provides a forward sight distance of less than 1006 M (for an eye height of 3 M above the runway surface) between the start of the LDA and 240 M after the start of the LDA located in the area of the Runway 09 threshold and start of the 09 TDZ. OFZ: Yes.
	1005 x 150 M	2131 x 280 M				RWY 27 Pilots should note that when using Runway 27, there is a 395 M area of the runway that provides a forward sight distance of less than 1006 M (for an eye height of 3 M above the runway surface) between 630 M and 1025 M after the start of the LDA located in the middle of the runway length. Threshold displaced by 129 M. OFZ: Yes.

EGGD AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	2011 M	2133 M	2011 M	2011 M	
27	2011 M	3016 M	2011 M	1882 M	
09	1300 M	1422 M	1300 M		Take-off from intersection with Taxiway Foxtrot.
09	701 M	823 M	701 M		Take-off from intersection with Taxiway Delta.
09	652 M	774 M	652 M		Take-off from intersection with Taxiway Hotel.
27	1828 M	2742 M	1828 M		Take-off from intersection with Taxiway Bravo.
27	1780 M	2670 M	1780 M		Take-off from intersection with Taxiway Juliet.
27	1371 M	2057 M	1371 M		Take-off from intersection with Taxiway Hotel.
27	1348 M	2021 M	1348 M		Take-off from intersection with Taxiway Delta.
27	734 M	1101 M	734 M		Take-off from intersection with Taxiway Foxtrot.

EGGD AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Coded centre-line with three crossbars. 480 M Light intensity high	Green Light intensity high Uni-directional with wingbars	PAPI Left/3° 54 FT 347 M In relation to aircraft approach, B787-800 wheel to eye clearance over threshold is 6.75 M. A330 wheel clearance over threshold is 5.51 M.		Colour coded 15 M Light intensity high	Elev bi-directional with omni-directional component 60 M Light intensity high	Uni-directional Red		EDGE: Yellow runway lights for final 600 M in take-off/landing direction.
27	Coded centre-line with three crossbars. Supplementary lights inner 300 M. 570 M Light intensity high	Green Light intensity high Uni-directional with wingbars	PAPI Left/3° 57 FT 319 M In relation to aircraft approach, B787-800 wheel to eye clearance over threshold is 5.54 M.	900 M	Colour coded 15 M Light intensity high	Elev bi-directional with omni-directional component 60 M Light intensity high	Uni-directional Red		EDGE: Yellow runway lights for final 600 M in take-off/landing direction.

EGGD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: East 512253.74N 0024240.68W, West 512300.90N 0024341.26W.
3	TWY edge and centre line lighting	CL: Green centre-line lighting on taxiways A, B, G and Z. EDGE: Blue edge lighting on taxiways A, B, D, F, H, J and Z.
4	Secondary power supply/switch-over time	Yes/1 second.
5	Remarks	Obstacle lighting. Apron floodlights.

EGGD AD 2.16 HELICOPTER LANDING AREA

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EGGD AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
BRISTOL CTR A circle, 5 NM radius, centred at 512258N 0024309W	Upper limit: FL105 Lower limit: SFC	D	BRISTOL RADAR English	6000 FT		To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
BRISTOL ATZ A circle, 2.5 NM radius, centred at 512258N 0024309W on longest notified runway (09/27)	Upper limit: 2000 FT AGL Lower limit: SFC	D	BRISTOL RADAR English	6000 FT		

EGGD AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	BRISTOL RADAR	125.650 DOC 60 NM/ 15,000 FT.			H24	ATZ hours coincident with Radar hours. For aircraft requesting to join, transit or fly within 10 NM of Bristol CAS.
		136.080 DOC 60 NM/ 15,000 FT.			When directed by ATC.	
TWR	BRISTOL DELIVERY	121.930 Available as directed by ATC. DOC 2 NM/GND.			H24	
	BRISTOL GROUND	121.930 DOC 2 NM/GND.			When directed by ATC.	
	BRISTOL TOWER	133.850 DOC 25 NM/4000 FT.			H24	
		136.080 DOC 60 NM/ 15,000 FT.			When directed by ATC.	
RADAR	BRISTOL DIRECTOR	136.080 Available as directed by ATC. DOC 60 NM/ 15,000 FT.			H24	
ATIS	BRISTOL INFORMATION	126.030			H24	Available by Telephone: 01275-475686 (H24).
OTHER	BRISTOL FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGGD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.49°E (2027)	IBON	110.150 MHz	H24	512300.20N 0024202.08W		(RWY 09)
ILS/GP	IBON	334.250 MHz	H24	512259.92N 0024344.96W		3° ILS Ref Datum Hgt 57 FT. Certified for extended range up to 15 NM.
ILS/LOC III 0.48°E (2027)	IBTS	110.150 MHz	H24	512255.18N 0024411.06W		(RWY 27)
ILS/GP	IBTS	334.250 MHz	H24	512253.79N 0024240.00W		3° ILS Ref Datum Hgt 50 FT. Certified for extended range up to 15 NM.
NDB (L) 0.49°E (2027)	BRI	414.000 kHz	H24	512253.19N 0024303.14W		On AD. Range 40 NM.
ILS/DME	IBON	38Y 110.150 MHz	H24	512259.85N 0024344.78W	628 FT	(RWY 09) DME freq paired with ILS I-BON and I-BTS. Zero range is indicated at THR of Runway 09.
ILS/DME	IBTS	38Y 110.150 MHz	H24	512253.92N 0024240.23W	617 FT	(RWY 27) DME freq paired with ILS I-BON and I-BTS. Zero range is indicated at THR of Runway 27
VOR/DME 0.27°E (2027) 0.8°W (2019)	BCN	121Y 117.450 MHz	H24	514331.89N 0031546.92W	1450 FT	RNAV Substitution Only. VOR DOC: 65 NM/50000 FT. DME DOC: 65 NM/50000 FT (125 NM/50000 FT in Sector R136-001).

EGGD AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aircraft unable to communicate by radio with ATC will not be accepted.
b) All flights are at all times subject to PPR. The filing of a flight plan with NATS Ltd does not constitute permission to use Bristol Aerodrome.
c) Aircraft using Bristol Airport are to carry third party insurance cover of not less than £500,000.
d) Due to restricted General Aviation parking facilities, operators of inbound General Aviation flights must pre-notify published handling agents with their ETA and duration of stay.
e) All aircraft operators should submit details of proposed flights and schedules to Airport Co-ordination Ltd, who act as agents on behalf of Bristol for this purpose. Bristol is an IATA Level 3 coordinated airport as defined by IATA and the UK Department for Transport. It is a condition of use of Bristol Airport that operators fully comply with the time allocated by Airport Co-ordination Ltd on behalf of Bristol Airport. Requests for ad-hoc slot allocations during this period, should be made to ACL during working hours 0730-1600, Monday to Friday by SITA: LONACXH; e-mail: lonacxh@acl-uk.org; Tel: 0161-493 1850; or at all other times to Bristol Airport Duty Manager: 01275-473424.

   These applications must include the following information:

   i. Aircraft owner/operator;
   ii. aircraft type and registration;
   iii. flight number (if applicable);
   iv. requested time of arrival and departure at Bristol;
   v. nominated handling agent at Bristol.

   OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com.

f) Due to limited aircraft stand availability, aircraft wishing to divert to Bristol Airport may not be accepted, except in an emergency.
g) High visibility clothing must be worn on the apron and manoeuvring area at all times, except for passengers under escort.
h) Local airside procedures and requirements are available from the Airside Ops webpage: www.bristolairport.co.uk/airside.

2 GROUND MOVEMENT

a) A marshaller is required for parking on all stands. Aircraft must wait on the taxiway or apron taxilane until a marshaller is present and gives the correct hand signals to proceed.
b) Headsets are to be used for all engine start and pushback/departure communications. The only exceptions are thunderstorm warning, aircraft port unserviceability, or failure of the headset after the pushback has started or the training of ICAO hand signals (which are to be used in these situations).

Flight crew must inform ATC if they are not in, or lose two-way communication with the ground crew. The request for pushback, and issue of pushback instruction is between flight crew and ATC. Flight crew must relay the instruction verbatim to ground crew.

Before pushback is requested, flight crew must confirm ground crew are ready. This is to ensure the tug driver is able to listen to communication between flight crew and ATC. The tug driver must listen carefully to the pushback instruction and ensure they have understood it. This enables the tug driver to cross check the pushback instruction from ATC to what is communicated by the headset operator.

If the tug driver has not heard or understood the pushback instruction they must not commence pushback. The flight crew should request that ATC repeat the instruction. The ground crew must not commence pushback if they believe a safety concern exists. Any request for amendment to the pushback instruction, or clarification regarding the instruction shall, in the first instance, be directed to ATC by the flight crew. If further clarification is required or the concern cannot be resolved, assistance from Airside Operations is to be requested.

c) Aircraft engine runs: Permission to carry out an engine run is required for an aircraft with one or more of the following parameters:

i. An aircraft equipped with jet engines (including business jets);
ii. any commercial turbo prop engine aircraft;
iii. any aircraft planning a high power engine run;
iv. any out of hours engine run.

Permission will be given via an authorisation code. To obtain the authorisation code, contact the Airside Operations Department on 01275-473705 in advance of the planned engine run time.

d) Most grass areas are unsuitable for parking of aircraft.
e) Bristol Delivery frequency 121.930 MHz may be open during peak daytime hours. 121.930 MHz is not monitored if not operational.
f) Pilots should request airways or departure clearances prior to start. Clearances are available up to 15 minutes before EOBT.
g) Code D & E aircraft movements between holding points G3 and Z2 will be provided with a follow-me vehicle.
h) B787 and A330 available taxi routes:

	Departure	Arrival
Runway 09	Taxiway Z to Taxiway G, enter Runway at GX.	Runway to vacate either BX (Taxiway B) or AX (Taxiway A) to Taxiway Z to allocated stand.
Runway 27	Taxiway Z to Taxiway A, enter Runway at AX.	Runway to vacate GX, Taxiways G and Z to allocated stand.

i) B787 and A330 aircraft will not be able to backtrack.
j) Flight crew should only request start up/pushback when ready to depart. This shall include doors closed, steps removed, tug attached and communication established with their ground crew.
k) Pilots are to use the minimum power necessary when manoeuvring on the taxiway and taxilane system. This is of particular importance when manoeuvring in the apron cul-de-sacs.
l) Aircraft shall enter Stands 22-25 inclusive directly from Taxiway Zulu, following the stand identification markings and arrows on the taxiway. Aircraft parking on Stands 23 or 24 must taxi straight in from Taxiway Z and not via Link Charlie to the rear of these stands.
m) Push and hold procedure is available, arrange via ground crew. Start-up approval is required from ground crew.
n) There are four roadway uncontrolled crossings across apron cul-de-sacs and taxi-lanes on the east and west aprons. Traffic on the crossings is not under ATC control but is required to give way to aircraft prior to entering the crossing point. Pilots should be aware of the proximity of road traffic whilst manoeuvring.
o) Due to insufficient main landing gear clearance, A321 are unable to turn westbound from Taxiway Foxtrot onto Taxiway Zulu, and vice-versa.

3 CAT II/III OPERATIONS

a) Runway 27, subject to the serviceability of the equipment, is suitable for Category lll operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) Pilots will be informed by ATIS broadcast or by RTF when Low Visibility Procedures (LVPs) are in operation.
c) Holding points DX, FX and HX will not be available when LVP are in force.
d) Arriving aircraft Runway 27 - Pilots are to delay the call 'runway vacated' until the aircraft has completely passed the end of the green/yellow colour coded taxiway centreline lights. These lights denote the extent of the ILS Localiser sensitive area.
e) When IRVR is 400 M or less, a follow-me vehicle shall be provided from the edge of the manoeuvring area onto the allocated stand.

4 WARNINGS

a) Ground signals are not displayed, except for light signals.
b) Bird Dispersal is carried out on a regular basis, using a bird control laser, BABS and pyrotechnic equipment. Pilots are warned, however, that birds may not always be detected on the extreme western end of the aerodrome and on the approaches and departure tracks of all runways. Racing pigeon activity over/close to the airport is evident throughout the year, especially from 1 April to 31 October.

c) Hot air balloon launches take place in VMC from Ashton Court (3.5 NM north east of the aerodrome) and from Bath (12 NM east of the aerodrome). Balloons may be observed downwind of these sites within the CTR and within or passing beneath the CTA. All hot air balloons within controlled airspace operating above 1000 FT QNH will be in contact with ATC who will notify pilots of known balloon activity which may affect their flights.
d) Glider and hang-glider activity takes place in VMC within designated glider blocks as follows:

i. Ubley - A small section of the CTR south of Blagdon Lake up to 2500 FT QNH.
ii. Halesland blocks A and B - Bristol CTA-5 to the east of Cheddar Reservoir up to 4000 FT QNH and occasionally up to 5000 FT QNH.
iii. The Bath Gap - Bristol CTA-6 up to 4500 FT QNH.

ATC will notify pilots of known glider activity which may affect their flights (this may be via an ATIS message). IFR flights will be vectored to remain clear of active glider blocks and given descent instructions to maintain at least 500 FT above the gliders' maximum operating altitude.

e) Caution, pilots may experience windshear/turbulence, especially if the wind is strong southeasterly (using Runway 09) or strong westerly (using Runway 27).
f) Laser light display at Weston-super-Mare seafront, 10.5 NM west south west of the airport, may affect pilots making approaches to Runway 09 or departing from Runway 27.
g) Small unmanned vehicles (UAVs) may operate from a site within the CTR approximately 3.5 NM north east of the aerodrome, up to 570 FT AMSL within 1 NM of the site.
h) Model aircraft may operate from a site within the CTR approximately 4 NM northwest of the airport up to 1015 FT AMSL within 0.5 NM of the site.

5 HELICOPTER OPERATIONS

a) A noise sensitive area exists immediately to the north of the northern aerodrome boundary, which should not be overflown below 500 FT QFE.
b) Helicopters must arrive/depart using Runway in use. Easterly departures to turn north and follow the A38 after crossing threshold.
c) Westerly departures should not turn north until crossing the aerodrome boundary.
d) Westerly arrivals from the north should approach following the A38 road and join on a right base for Runway 27, avoiding Felton village and the noise sensitive area to the north.
e) Helicopters are not permitted to over-fly any part of the northside aprons. Any helicopters instructed to land on the northside aprons shall be marshalled by Airside Operations.
f) Helicopter circuit height is 700 FT QFE.

6 USE OF RUNWAYS

a) In accordance with EU OPS Subpart E, the following approach operations are available to approved operators:

i. Runway 09 is suitable for lower than Standard Category I operations supported by an ILS Classification of I/T/1, when the IRVR is not less than 550 M.

7 TRAINING

a) Use of the aerodrome for training purposes is subject to the following:

i. Training is not permitted under any circumstances between 2200-0700 (2100-0600);
ii. Use of the aerodrome for training purposes (navaid/runway/circuit), is subject to approval by the aerodrome operator, and subject to restrictions detailed within EGGD AD 2.20, 1. Airport Regulations;
iii. Inbound and outbound training sorties by based operators are permitted, and subject to restrictions detailed within EGGD AD 2.20, 1. Airport Regulations.

EGGD AD 2.21 NOISE ABATEMENT PROCEDURES

a) In exercise of the powers conferred on it by Section 4 of the Civil Aviation Act 2006, Bristol Aerodrome has established a noise control scheme for the purpose of avoiding and limiting the effect of noise connected with the taking-off or, as the case may be, landing of aircraft at Bristol Aerodrome. The noise control scheme provides as follows:
b) The following procedures may be departed from only to the extent necessary for avoiding immediate danger and for complying with ATC instructions.

i. Operators of all aircraft using the airport are to ensure that their aircraft conform to the noise abatement techniques laid down for the type of aircraft and that operations are conducted in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
ii. When operating IFR, any aircraft carrying out a visual approach must not join the final approach track at an altitude of less than 2200 FT (QNH).

c) Unless otherwise instructed by ATC, aircraft using the ILS in IMC or VMC shall not descend below the altitude specified in ii) above before intercepting the glide path nor thereafter fly below it. Aircraft approaching without assistance from ILS or radar shall follow a descent path which will not result in its being at any time lower than the approach path which would be followed by an aircraft using the ILS glide path.

d) The Noise Preferential Routeings (NPR) given below are compatible with ATC requirements and shall apply in both VMC and IMC. The tracks are to be flown by all departing aircraft of more than 5700 KG maximum certified weight, unless otherwise instructed by ATC or unless deviations are required in the interests of safety.

The NPRs are incorporated in the ATC Standard Instrument Departure procedures (SIDs).

Take-Off Runway	NPR
09	Climb straight ahead to IBON 5.4 NM (IBTS 4.7 NM) DME to be no lower than 3000 FT QNH at this point before commencing the turn.
27	Climb straight ahead to IBTS 5.2 NM (IBON 4.5 NM) DME to be no lower than 3000 FT QNH at this point before commencing the turn.

The obligations of NPRs cease when an altitude of 4000 FT QNH or above has been reached.

e) Jet aircraft and propeller driven aircraft of more than 5700 KG maximum certificated weight making visual approaches to Runway 27 shall intercept final approach track at:

i. Not less than 3 DME, from the North;
ii. Not less than 4 DME, from the South.

f) **Continuous Descent Approaches**

Subject to ATC instructions, inbound aircraft are to maintain as high an altitude as practical and adopt a continuous descent profile, when appropriate. ATC will advise pilots of an estimate of the track distance to run to touchdown as soon as possible after first call on the approach frequency.

g) **Aircraft Noise Quota Count System**

Night flying restrictions apply restricting the operations of certain types of aircraft during the periods 2300-0700 (2200-0600). Except in the case of aircraft in distress, all take-offs and landings between these hours are subject to prior application being made to the Airport Co-ordination Ltd. A Night Noise Quota System is in force between 2330-0600 (2230-0500). Full details of the Night Noise Quota System and the night flying restrictions are available from Tel: 01275-475522.

h) Every aircraft using the airport shall, after take-off or 'go around' be operated in the quietest possible manner. Aircraft exceeding 90 dB(A) (103PNdB) by day 0600-2329 (0500-2229) and 85 dB(A) (96PNdB) by night 2330-0559 (2230-0459) at the noise monitoring points located 6.5 KM from the start of roll for Runways 09 and 27 will be subject to a penalty as set out in the airport Fees and Charges.

i) Pilots and engineers should restrict the use of Auxiliary Power Units (APU) to the minimum time necessary. Between 2330-0559 (2230-0459) except when immediately prior to departure, APUs may only be run subject to approval from Airside Operations. An authorisation code will be required; contact 01275-473705. In addition, stands 38 and 39 have additional restrictions: FEGP is to be the primary source of power for aircraft when on stand. APUs may only be operated on these stands when required for operationally essential aircraft systems, immediately prior to departure.

j) In order to avoid overflying Felton Village, when departing Runway 09 and requiring to turn left, all aircraft shall climb ahead to 1 NM DME before commencing the left turn.

k) **Light Aircraft Operations**

i. Runway 27

1. All pilots should arrange their flight so as to minimise noise nuisance.
2. Circuit direction (to land) is normally left hand.

ii. Runway 09

1. Practice engine failures after take-off by single engined aircraft are not permitted.
2. Circuit direction (to land) is normally right hand only. However, ATC may require non-standard circuit direction for traffic integration.

EGGD AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Arrival routes for aircraft inbound from the UK ATS Route network are detailed at AD 2-EGGD-7.

b) **Inbound Procedure other than on ATS Route Network.**

i. VFR and Special VFR aircraft will usually be instructed to route via one of the Visual Reference Points (paragraph 5 refers), not above altitude 2000 FT (aerodrome QNH).

2 PROCEDURE FOR OUTBOUND AIRCRAFT

a) Aircraft Outbound via the ATS Route Network

i. Standard Instrument Departures for aircraft outbound via the UK ATS Route network are detailed at AD 2-EGGD-6.
ii. Aircraft departing on a YORQI or HAWFA SID routeing via L607 requesting a cruising level of FL 110 or above will be expected to maintain climb gradients to achieve FL 110 or above when crossing BUCFA. Pilots of aircraft unable to achieve FL 110 crossing BUCFA must inform ATC for alternative clearance.

Note: *Due to the removal of the BCN DVOR, SIDs as detailed at AD 2-EGGD-6-1 and 6-3 are only available to aircraft that are RNAV 1 compliant.*

b) Aircraft Outbound to the FIR

i. IFR aircraft wishing to leave the Bristol CTR/CTA to enter the London FIR will be cleared by the most direct route consistent with the current traffic situation.
ii. VFR and Special VFR aircraft will usually be instructed to route via one of the Visual Reference Points, not above 2000 FT (aerodrome QNH).

3 SPECIAL VFR FLIGHTS

a) Pilots operating on a Special VFR clearance may be given a radar service whilst within the Bristol CTR/CTA if, due to the traffic situation, ATC considers it advisable. It is the responsibility of the pilot to remain at all times in flight conditions which will enable him to determine his flight path and to keep clear of obstacles and to ensure that he is able to comply with the requirements of SERA.3105 Minimum Heights, SERA.5010 Special VFR in control zones and ENR 1.2 paragraph 1.3(l). Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.

4 HOLDING

a) A 1 minute racetrack procedure, approaching BRI 414 512253N 0024303W on track 095° turning left at the facility.

5 VISUAL REFERENCE POINTS (VRP)

a) Pilots are advised to use caution when routeing via the Bristol VRPs as they are Air Navigation Obstacles with high elevation – See ENR 5.4 dataset for up to date details of ICAO AREA 1 Obstacles.
b) Aircraft entering the Bristol CTR/CTA via M5 Avon Bridge, Cheddar Reservoir, Clifton Suspension Bridge and Chew Valley VRPs may be required to hold at East Nailsea, Barrow Tanks Reservoirs or Churchill VRPs as appropriate.
c) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

6 RADIO COMMUNICATIONS FAILURE PROCEDURE

a) In the event of complete radio communication failure in an aircraft the pilot will adopt the appropriate procedure notified at ENR 1.1.3. The route to be followed when leaving the CTR/CTA in accordance with this procedure is as follows:

Position at time of decision	Route
BRI 414 512253N 0024303W	Track 180°(T) at 3000 FT or last assigned level by ATC if higher

7 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Bristol controlled airspace, within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Bristol Radar frequency, 125.650 MHz, are encouraged to select SSR code 5077.

512715N 0030058W - 512349N 0030302W -
510900N 0030300W - 511200N 0025100W -
511200N 0021400W - 513022N 0020241W -
513533N 0020342W - 513945N 0024042W -
512715N 0030058W.

b) Selection of 5077 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the controlled airspace at all times.
c) Whilst squawking 5077 pilots should be aware that Bristol Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 5077 shall be deselected.

EGGD AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGGD AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGGD-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGGD-2-2
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGGD-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGGD-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) BCN 1X 1Z (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGGD-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) HAWFA 1X YORQI 1Z - ICAO
AD 2.EGGD-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) EXMOR 1X 1Z (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGGD-6-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) WEVBE 1B ELREW 1B - ICAO
AD 2.EGGD-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) FIFAH 1B - ICAO
AD 2.EGGD-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ICTAM 1B - ICAO
AD 2.EGGD-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) DAWLY 1B - ICAO
AD 2.EGGD-7-4
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 ADVED 1A BAXUN 1A - ICAO
AD 2.EGGD-7-5
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) TOJAQ 2B - ICAO
AD 2.EGGD-7-6
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BAJJA 1B - ICAO
AD 2.EGGD-7-7
STANDARD INSTRUMENT ARRIVAL CODING TABLES WEVBE 1B ELREW 1B FIFAH 1B ICTAM 1B
AD 2.EGGD-7-8
STANDARD INSTRUMENT ARRIVAL CODING TABLES DAWLY 1B ADVED 1A BAXUN 1A TOJAQ 2B BAJJA 1B
AD 2.EGGD-7-9
RNAV HOLD CODING TABLES BRI
AD 2.EGGD-7-10
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 09 - ICAO
AD 2.EGGD-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 09 - ICAO
AD 2.EGGD-8-2
INSTRUMENT APPROACH CHART RNP RWY 09 - ICAO
AD 2.EGGD-8-3
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 09 - ICAO
AD 2.EGGD-8-4
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 27 - ICAO
AD 2.EGGD-8-5
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 27 - ICAO
AD 2.EGGD-8-6
INSTRUMENT APPROACH CHART RNP RWY 27 - ICAO
AD 2.EGGD-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 27 - ICAO
AD 2.EGGD-8-8
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09 via EMPAS and ADVED, RWY 27 via ELROV and BAXUN
AD 2.EGGD-8-9

EGGD AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 512258N 0024309W **AD ELEV 622FT**

BRISTOL
EGGD

LIGHTING	
APCH 09 APCH 27	HI 480 m coded C/L with 3 bars. HI 570 m coded C/L with 3 bars. Supplementary inner 300 m.
THR 09/27	HI green uni-d with W bars.
RWY 09/27	HI elev bi-d with LI omni-d component (last 600 m yellow). HI colour coded C/L. End lights red.
TWY	TWYs A, B, G & Z green C/L. TWYs A, B, D, F, H, J & Z blue edge. Stopbars at holds AX, BX, DX, FX, GX, HX, JX, G2-G3 & Z1-Z4.

VAR 0.4°W - 2022
N
Annual Rate of Change 0.20°E

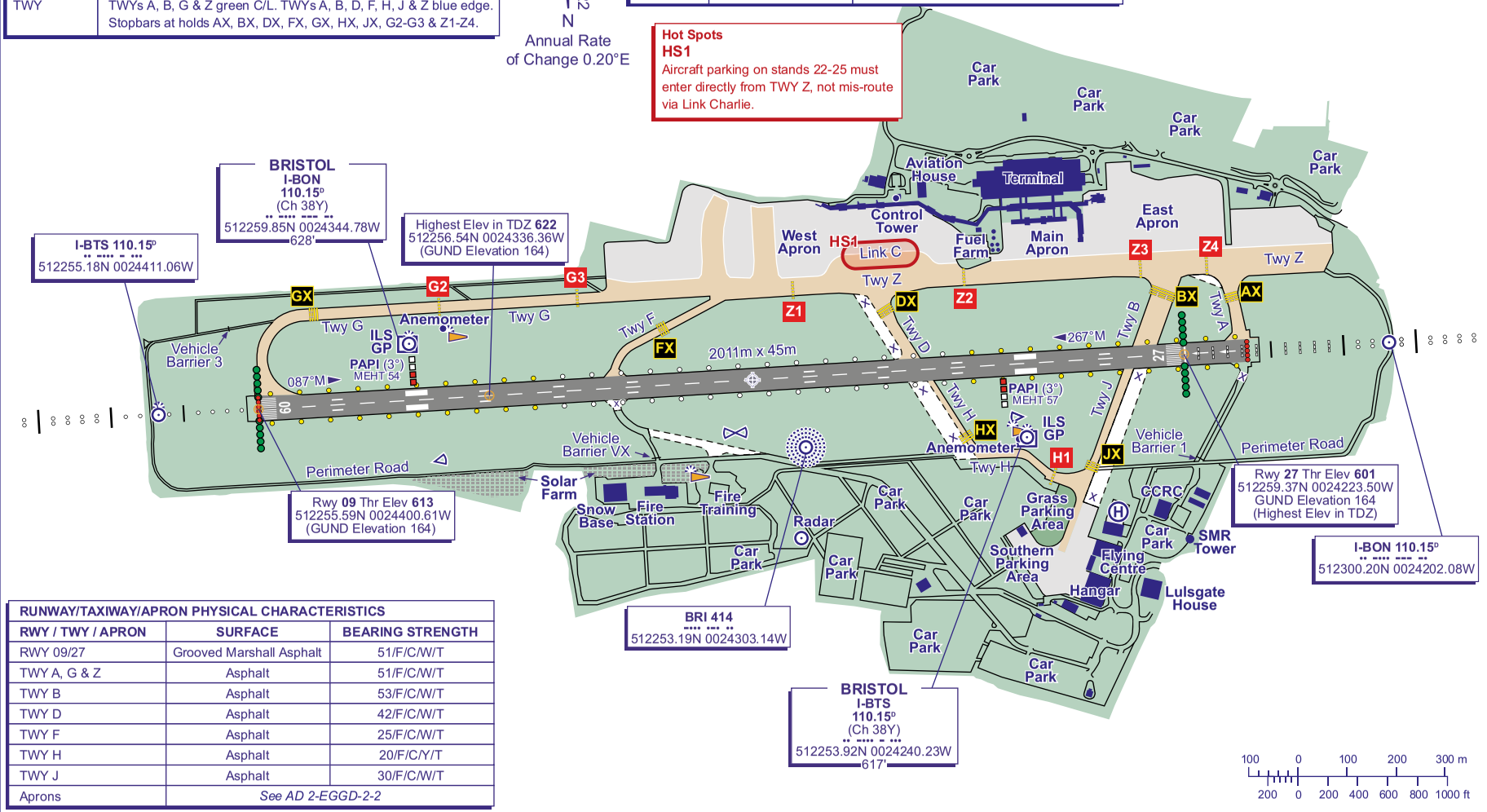
COM		
ATIS	126.030	BRISTOL INFO
TWR	133.850 136.080 (as directed)	BRISTOL TOWER
	121.930 (as directed)	BRISTOL DELIVERY
	121.930 (as directed)	BRISTOL GROUND
OTHER	121.600	BRISTOL FIRE

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL **622**

Hot Spots
HS1
Aircraft parking on stands 22-25 must enter directly from TWY Z, not mis-route via Link Charlie.



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**BEARING STRENGTH**
RWY 09/27	Grooved Marshall Asphalt	51/F/C/W/T
TWY A, G & Z	Asphalt	51/F/C/W/T
TWY B	Asphalt	53/F/C/W/T
TWY D	Asphalt	42/F/C/W/T
TWY F	Asphalt	25/F/C/W/T
TWY H	Asphalt	20/F/C/Y/T
TWY J	Asphalt	30/F/C/W/T
Aprons	*See AD 2-EGGD-2-2*	

CHANGE (8/25): HOTSPOT 1 ADDED. CENTRAL PIER LABEL REMOVED.

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 512258N 0024309W

AD ELEV 622FT

BRISTOL
EGGD

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
Main Apron	Concrete/Asphalt	51/R/C/W/T 51/F/C/W/T
East Apron	Concrete/Asphalt	51/R/C/W/T 51/F/C/W/T
West Apron & Link C	Concrete	51/R/C/W/T
Southern Parking Area	Asphalt	30/F/C/W/T
RWY 09/27	*See AD 2-EGGD-2-1*	
TWY (All)		

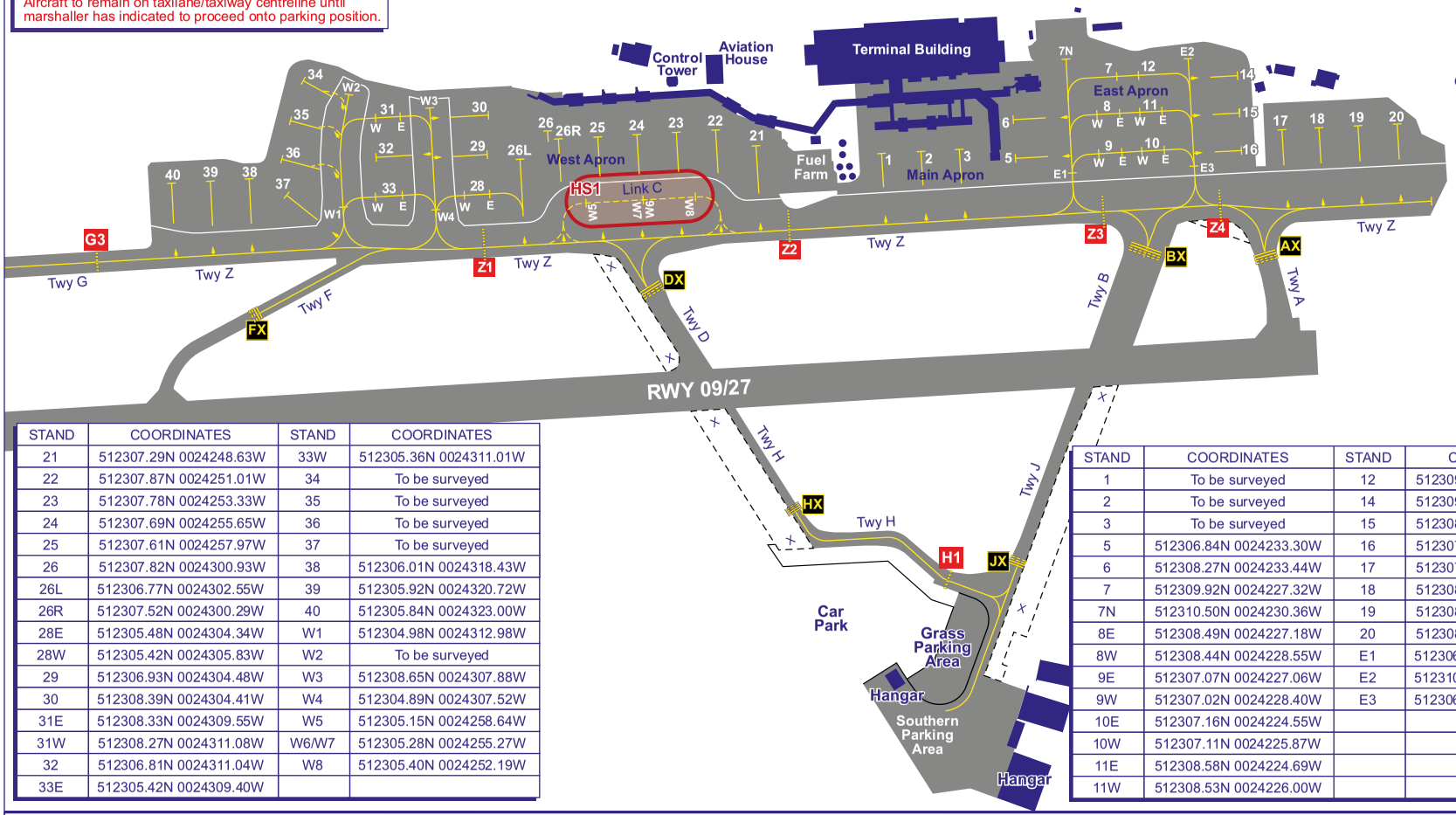
COM		
ATIS	126.030	BRISTOL INFO
TWR	133.850 136.080 (as directed)	BRISTOL TOWER
	121.930 (as directed)	BRISTOL DELIVERY
	121.930 (as directed)	BRISTOL GROUND
OTHER	121.600	BRISTOL FIRE

CAUTION
Aircraft to remain on taxilane/taxiway centreline until marshaller has indicated to proceed onto parking position.

Hot Spots
HS1
Aircraft parking on stands 22-25 must enter directly from TWY Z, not mis-route via Link Charlie.

50 0 50 100 150 m
0 500 ft

VAR 0.4°W - 2022
N
Annual Rate of Change 0.20°E

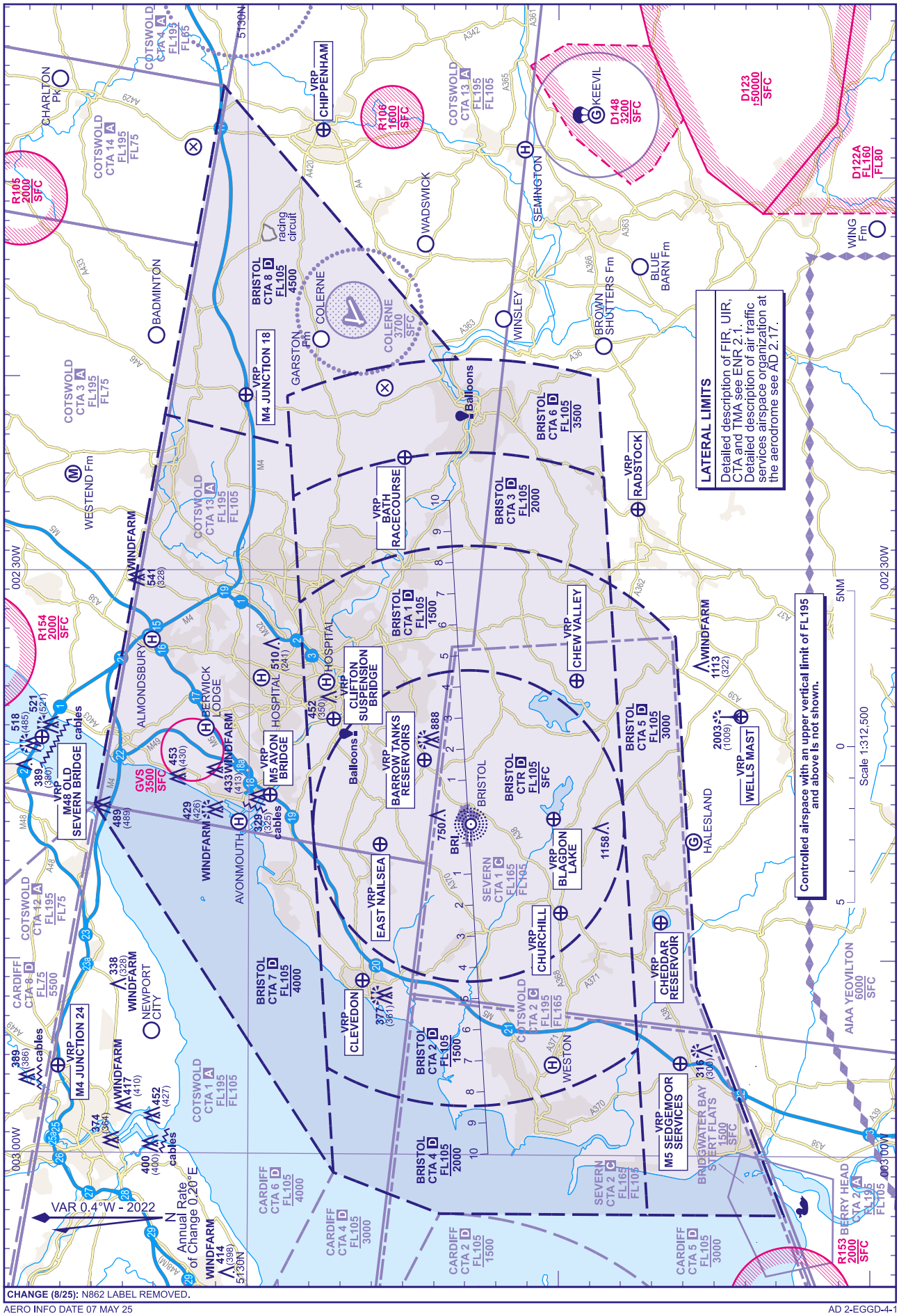


STAND	COORDINATES	STAND	COORDINATES
21	512307.29N 0024248.63W	33W	512305.36N 0024311.01W
22	512307.87N 0024251.01W	34	To be surveyed
23	512307.78N 0024253.33W	35	To be surveyed
24	512307.69N 0024255.65W	36	To be surveyed
25	512307.61N 0024257.97W	37	To be surveyed
26	512307.82N 0024300.93W	38	512306.01N 0024318.43W
26L	512306.77N 0024302.55W	39	512305.92N 0024320.72W
26R	512307.52N 0024300.29W	40	512305.84N 0024323.00W
28E	512305.48N 0024304.34W	W1	512304.98N 0024312.98W
28W	512305.42N 0024305.83W	W2	To be surveyed
29	512306.93N 0024304.48W	W3	512308.65N 0024307.88W
30	512308.39N 0024304.41W	W4	512304.89N 0024307.52W
31E	512308.33N 0024309.55W	W5	512305.15N 0024258.64W
31W	512308.27N 0024311.08W	W6/W7	512305.28N 0024255.27W
32	512306.81N 0024311.04W	W8	512305.40N 0024252.19W
33E	512305.42N 0024309.40W		

STAND	COORDINATES	STAND	COORDINATES
1	To be surveyed	12	512309.92N 0024226.04W
2	To be surveyed	14	512309.99N 0024220.12W
3	To be surveyed	15	512308.57N 0024219.98W
5	512306.84N 0024233.30W	16	512307.16N 0024219.85W
6	512308.27N 0024233.44W	17	512307.92N 0024217.78W
7	512309.92N 0024227.32W	18	512308.01N 0024215.50W
7N	512310.50N 0024230.36W	19	512308.09N 0024213.21W
8E	512308.49N 0024227.18W	20	512308.18N 0024210.92W
8W	512308.44N 0024228.55W	E1	512306.33N 0024229.97W
9E	512307.07N 0024227.06W	E2	512310.54N 0024223.18W
9W	512307.02N 0024228.40W	E3	512306.60N 0024222.81W
10E	512307.16N 0024224.55W		
10W	512307.11N 0024225.87W		
11E	512308.58N 0024224.69W		
11W	512308.53N 0024226.00W		

CHANGE (10/25): STAND 1-3 COORDS REMOVED AWAITING UPDATE.

CONTROL ZONE AND CONTROL AREA CHART — BRISTOL



CHANGE (8/25): N862 LABEL REMOVED.

AERO INFO DATE 07 MAY 25

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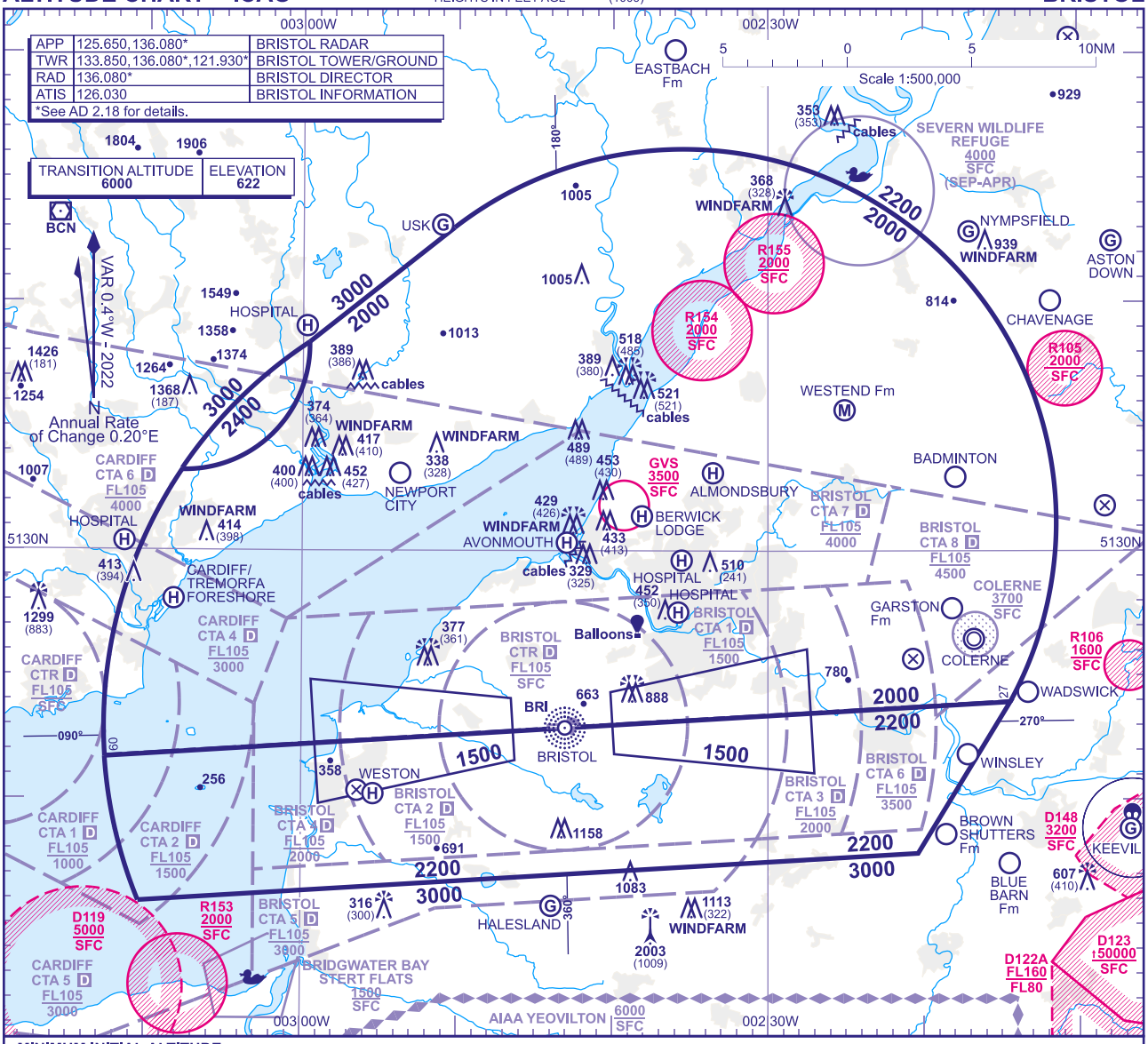
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 2003
HEIGHTS IN FEET AGL (1009)

BRISTOL



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2000** in the sector defined by the lateral limits; 513822N 0025935W - 514259N 0025015W thence clockwise by an arc of a circle radius 15NM centred on 513110N 0023527W to 512356N 0021426W - 512140N 0031237W thence clockwise by an arc of a circle radius 18.5NM centred on 512258N 0024309W to 513315N 0030744W thence anticlockwise by an arc of a circle radius 5NM centred on 513813N 0030737W to 513822N 0025935W.

b) **2200** in the sector defined by the lateral limits; 512140N 0031237W - 512356N 0021426W - 511751N 0022022W - 511553N 0031024W thence clockwise by an arc of a circle radius 18.5NM centred on 512258N 0024309W to 512140N 0031237W.

c) **2400** in the sector defined by the lateral limits; 513315N 0030744W thence clockwise by an arc of a circle radius 18.5NM centred on 512258N 0024309W - 513822N 0025935W thence clockwise by an arc of a circle radius 5NM centred on 513813N 0030737W - 513315N 0030744W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) BRI**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) BRI**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of NDB(L) BRI.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40 degrees or less and is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 24 JAN 25

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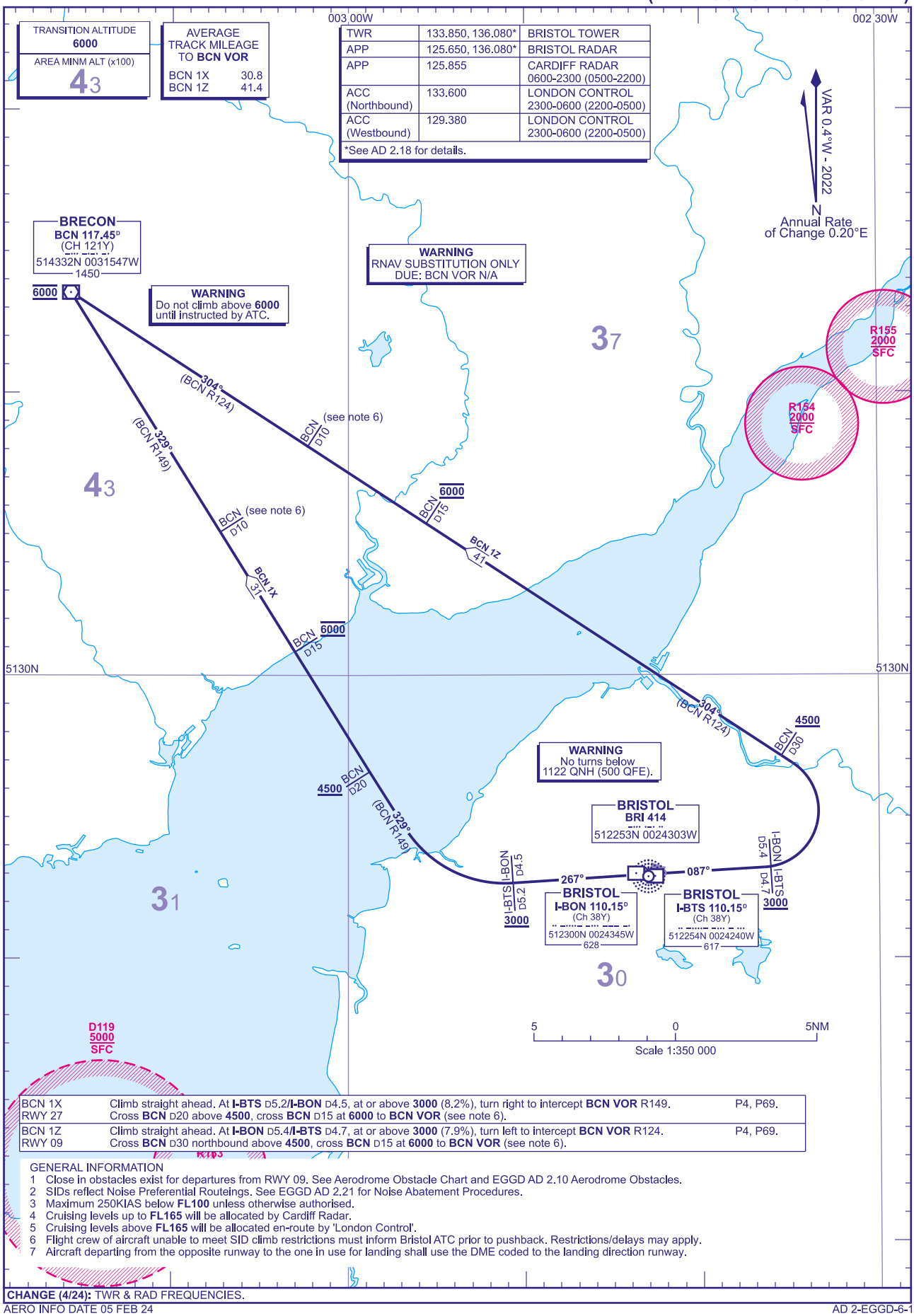
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL
BCN 1X 1Z
(RNAV SUBSTITUTION ONLY)



BCN 1X RWY 27	Climb straight ahead. At **I-BTS** D5.2/**I-BON** D4.5, at or above **3000** (8.2%), turn right to intercept **BCN VOR** R149. Cross **BCN** D20 above **4500**, cross **BCN** D15 at **6000** to **BCN VOR** (see note 6).	P4, P69.
BCN 1Z RWY 09	Climb straight ahead. At **I-BON** D5.4/**I-BTS** D4.7, at or above **3000** (7.9%), turn left to intercept **BCN VOR** R124. Cross **BCN** D30 northbound above **4500**, cross **BCN** D15 at **6000** to **BCN VOR** (see note 6).	P4, P69.

GENERAL INFORMATION
1 Close in obstacles exist for departures from RWY 09. See Aerodrome Obstacle Chart and EGGD AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGGD AD 2.21 for Noise Abatement Procedures.
3 Maximum 250KIAS below **FL100** unless otherwise authorised.
4 Cruising levels up to **FL165** will be allocated by Cardiff Radar.
5 Cruising levels above **FL165** will be allocated en-route by 'London Control'.
6 Flight crew of aircraft unable to meet SID climb restrictions must inform Bristol ATC prior to pushback. Restrictions/delays may apply.
7 Aircraft departing from the opposite runway to the one in use for landing shall use the DME coded to the landing direction runway.

CHANGE (4/24): TWR & RAD FREQUENCIES.

AERO INFO DATE 05 FEB 24

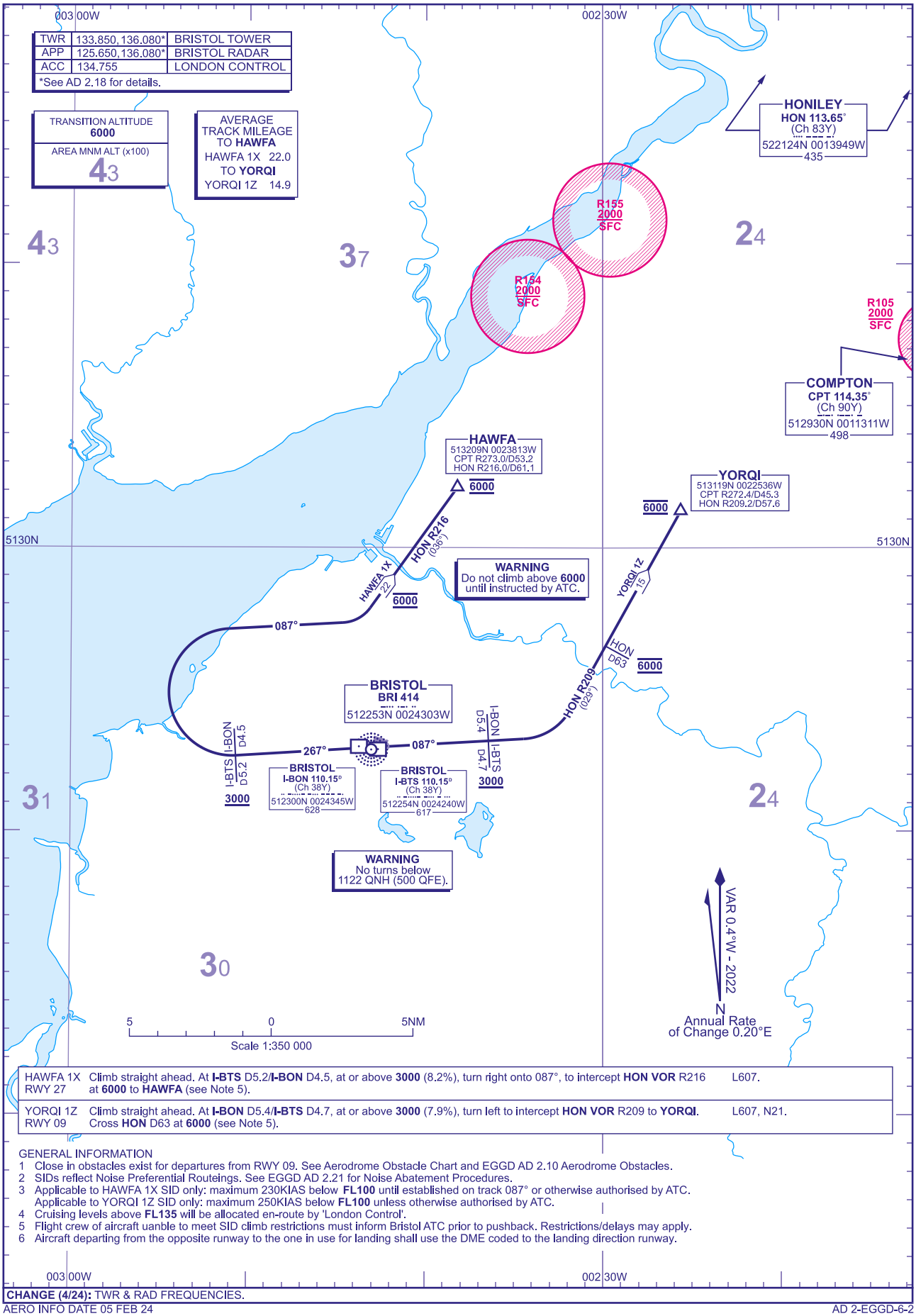
AD 2-EGGD-6-1

I

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL
HAWFA 1X YORQI 1Z



HAWFA 1X RWY 27	Climb straight ahead. At **I-BTS** D5.2/**I-BON** D4.5, at or above **3000** (8.2%), turn right onto 087°, to intercept **HON VOR** R216 at **6000** to **HAWFA** (see Note 5).	L607.
YORQI 1Z RWY 09	Climb straight ahead. At **I-BON** D5.4/**I-BTS** D4.7, at or above **3000** (7.9%), turn left to intercept **HON VOR** R209 to **YORQI**. Cross **HON** D63 at **6000** (see Note 5).	L607, N21.

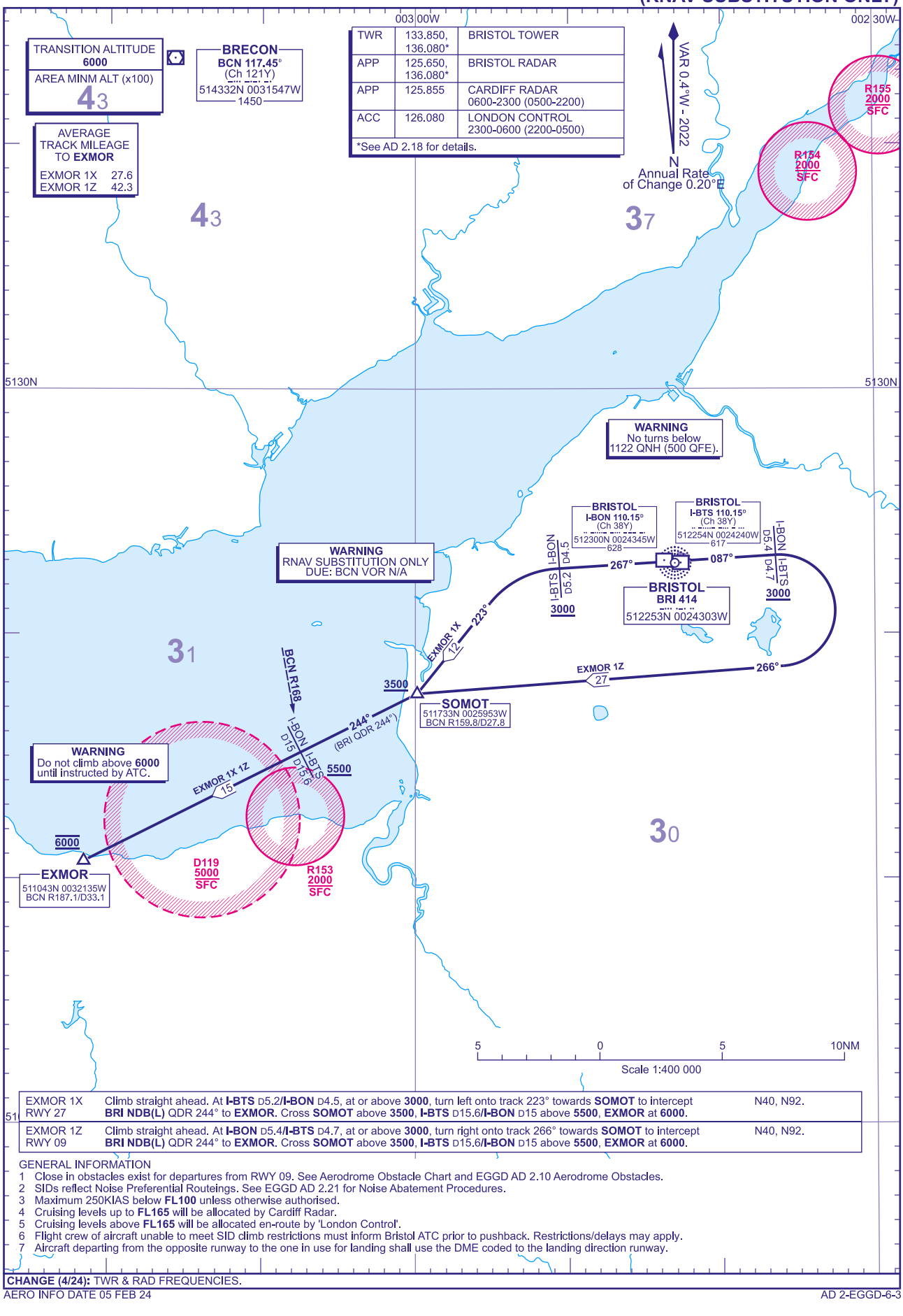
GENERAL INFORMATION
1 Close in obstacles exist for departures from RWY 09. See Aerodrome Obstacle Chart and EGGD AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGGD AD 2.21 for Noise Abatement Procedures.
3 Applicable to HAWFA 1X SID only: maximum 230KIAS below **FL100** until established on track 087° or otherwise authorised by ATC.
Applicable to YORQI 1Z SID only: maximum 250KIAS below **FL100** unless otherwise authorised by ATC.
4 Cruising levels above **FL135** will be allocated en-route by 'London Control'.
5 Flight crew of aircraft uanble to meet SID climb restrictions must inform Bristol ATC prior to pushback. Restrictions/delays may apply.
6 Aircraft departing from the opposite runway to the one in use for landing shall use the DME coded to the landing direction runway.

CHANGE (4/24): TWR & RAD FREQUENCIES.
AERO INFO DATE 05 FEB 24
AD 2-EGGD-6-2

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL
EXMOR 1X 1Z
(RNAV SUBSTITUTION ONLY)



EXMOR 1X RWY 27	Climb straight ahead. At **I-BTS** D5.2/**I-BON** D4.5, at or above **3000**, turn left onto track 223° towards **SOMOT** to intercept **BRI NDB(L)** QDR 244° to **EXMOR**. Cross **SOMOT** above **3500**, **I-BTS** D15.6/**I-BON** D15 above **5500**, **EXMOR** at **6000**.	N40, N92.
EXMOR 1Z RWY 09	Climb straight ahead. At **I-BON** D5.4/**I-BTS** D4.7, at or above **3000**, turn right onto track 266° towards **SOMOT** to intercept **BRI NDB(L)** QDR 244° to **EXMOR**. Cross **SOMOT** above **3500**, **I-BTS** D15.6/**I-BON** D15 above **5500**, **EXMOR** at **6000**.	N40, N92.

GENERAL INFORMATION
1 Close in obstacles exist for departures from RWY 09. See Aerodrome Obstacle Chart and EGGD AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGGD AD 2.21 for Noise Abatement Procedures.
3 Maximum 250KIAS below **FL100** unless otherwise authorised.
4 Cruising levels up to **FL165** will be allocated by Cardiff Radar.
5 Cruising levels above **FL165** will be allocated en-route by 'London Control'.
6 Flight crew of aircraft unable to meet SID climb restrictions must inform Bristol ATC prior to pushback. Restrictions/delays may apply.
7 Aircraft departing from the opposite runway to the one in use for landing shall use the DME coded to the landing direction runway.

CHANGE (4/24): TWR & RAD FREQUENCIES.

AERO INFO DATE 05 FEB 24
AD 2-EGGD-6-3

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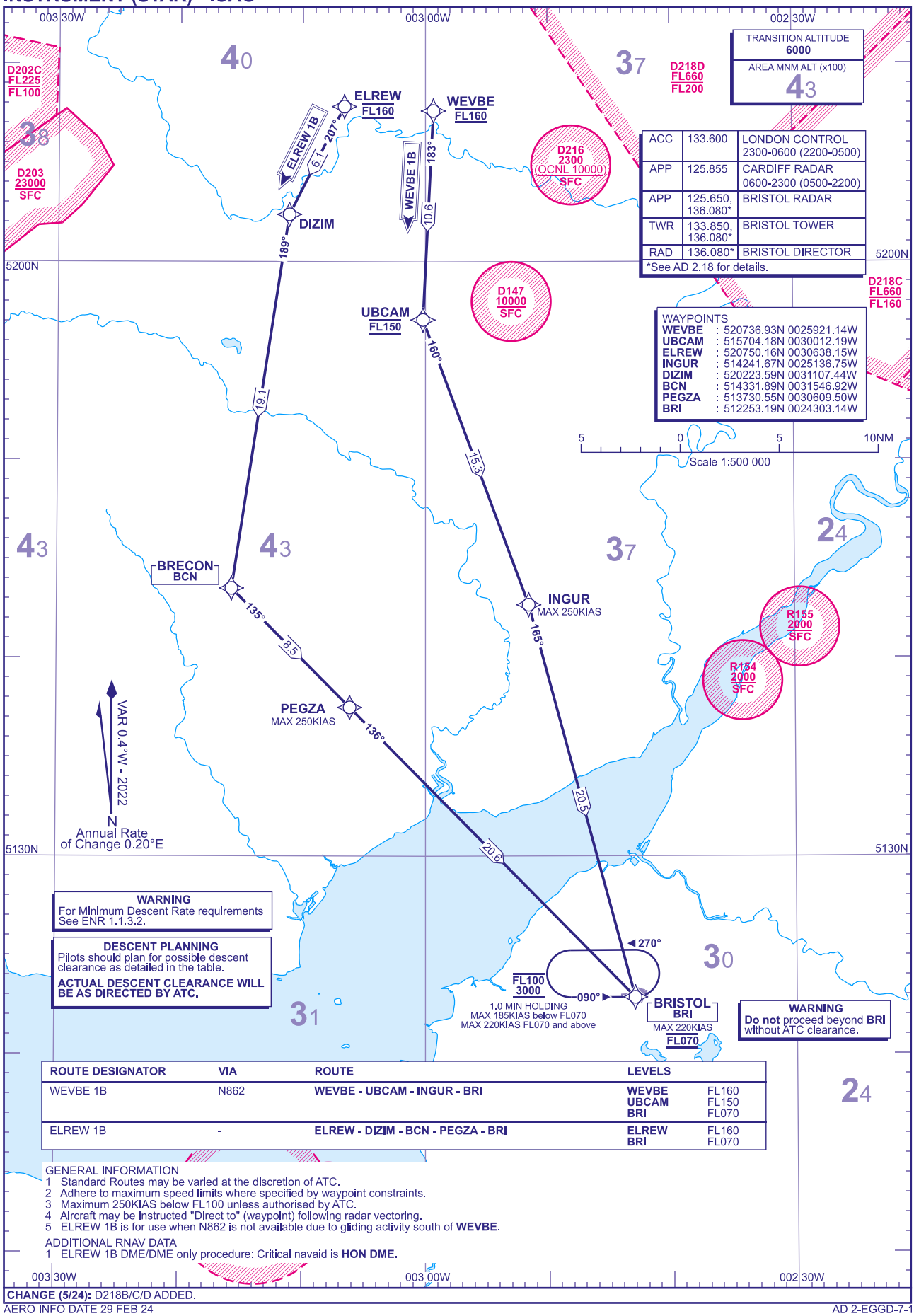
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL
WEVBE 1B ELREW 1B



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
WEVBE 1B	N862	WEVBE - UBCAM - INGUR - BRI	WEVBE UBCAM BRI	FL160 FL150 FL070
ELREW 1B	-	ELREW - DIZIM - BCN - PEGZA - BRI	ELREW BRI	FL160 FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 ELREW 1B is for use when N862 is not available due to gliding activity south of **WEVBE**.

ADDITIONAL RNAV DATA
1 ELREW 1B DME/DME only procedure: Critical navaid is **HON DME.**

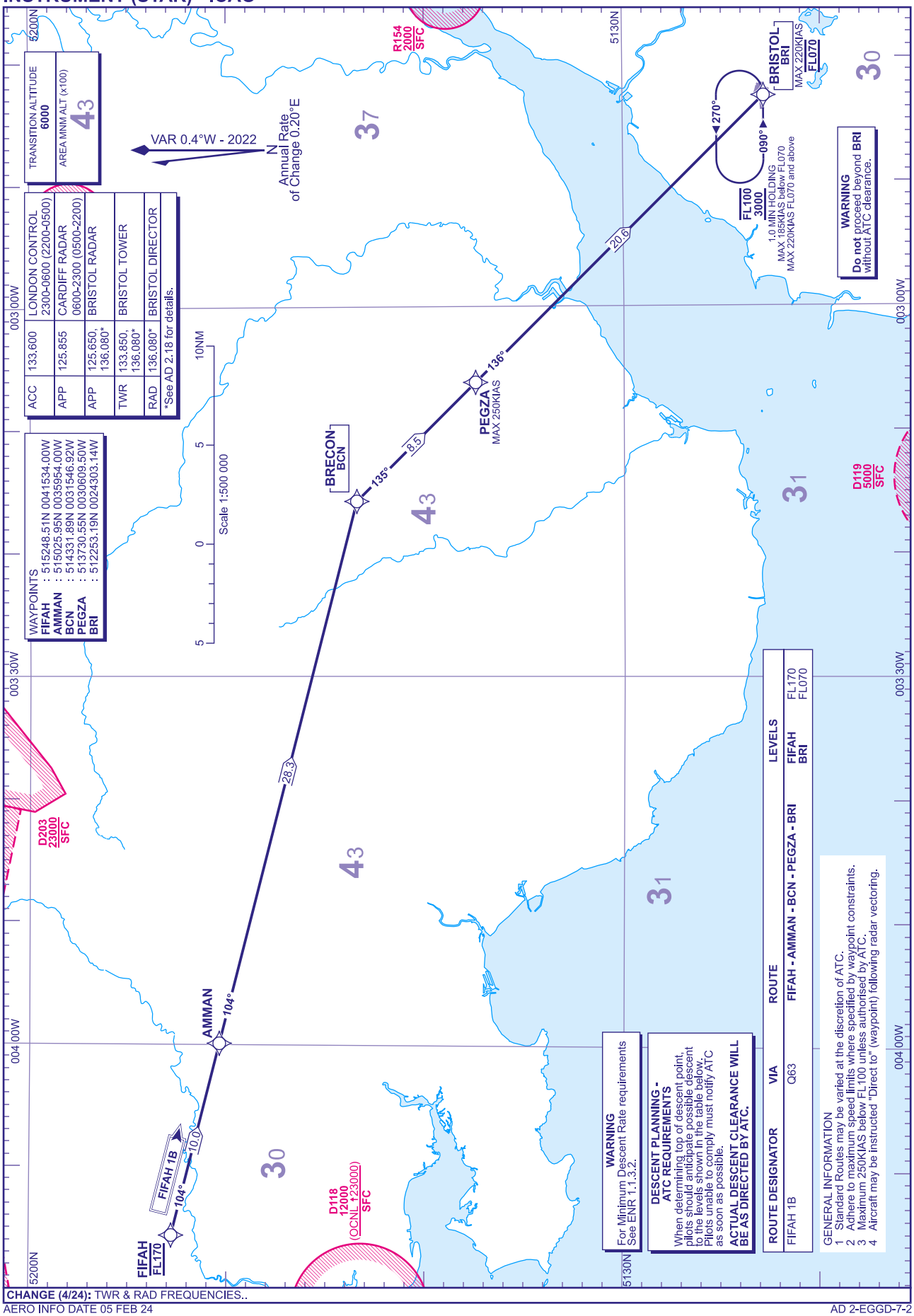
CHANGE (5/24): D218B/C/D ADDED.

AERO INFO DATE 29 FEB 24

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

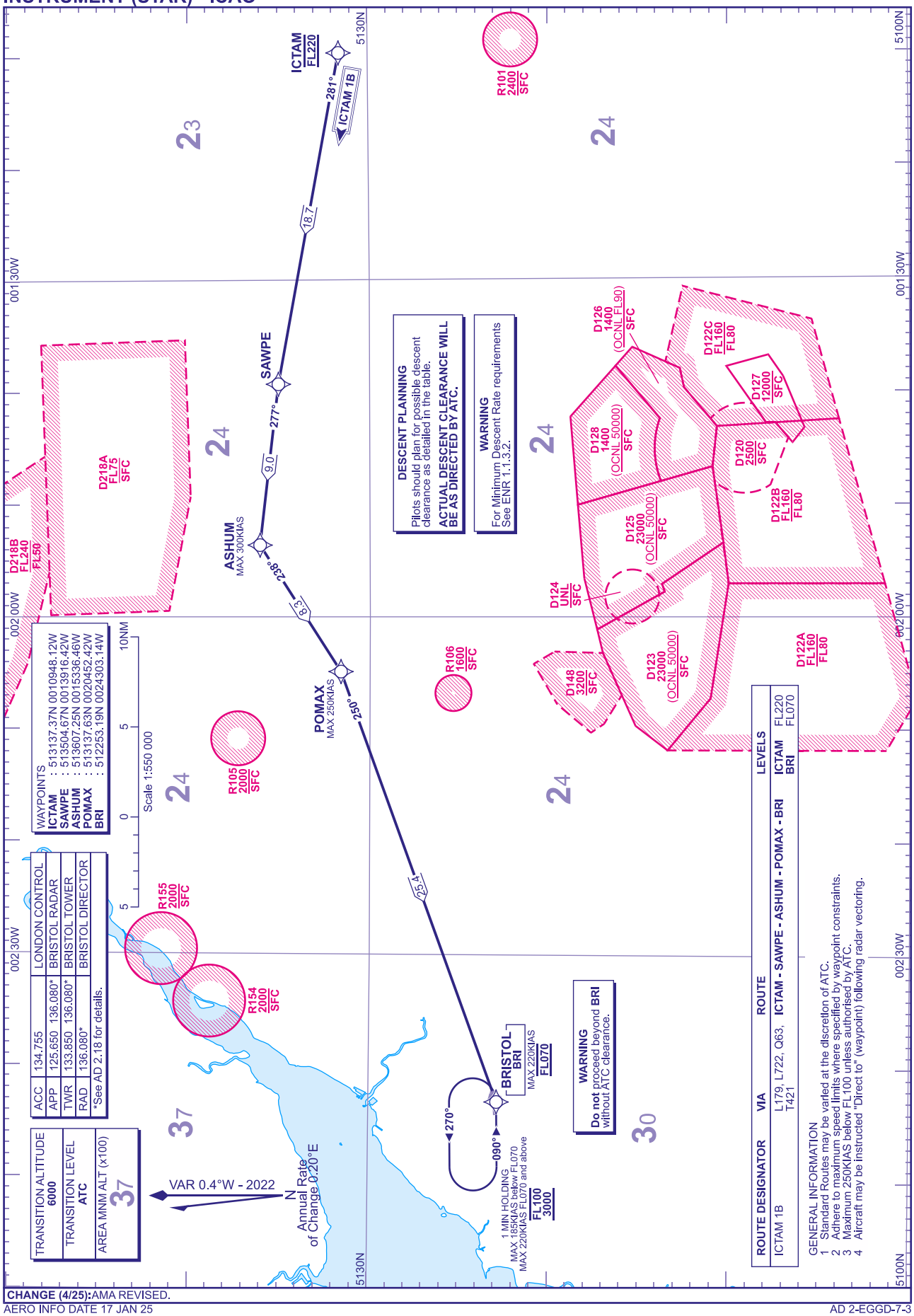
BRISTOL FIFAH 1B



RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL ICTAM 1B



CHANGE (4/25): AMA REVISED.

AERO INFO DATE 17 JAN 25

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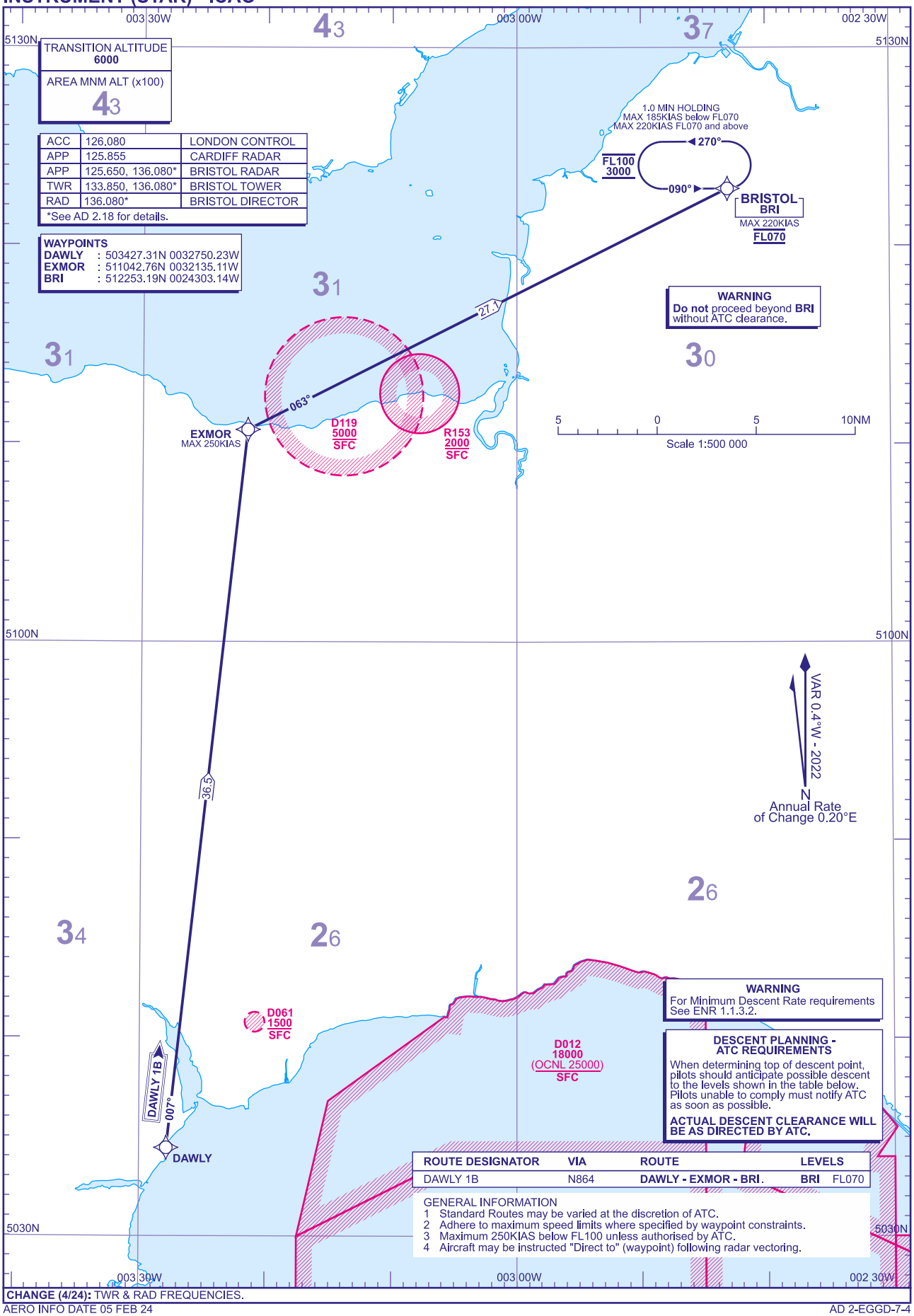
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL DAWLY 1B



CHANGE (4/24): TWR & RAD FREQUENCIES.

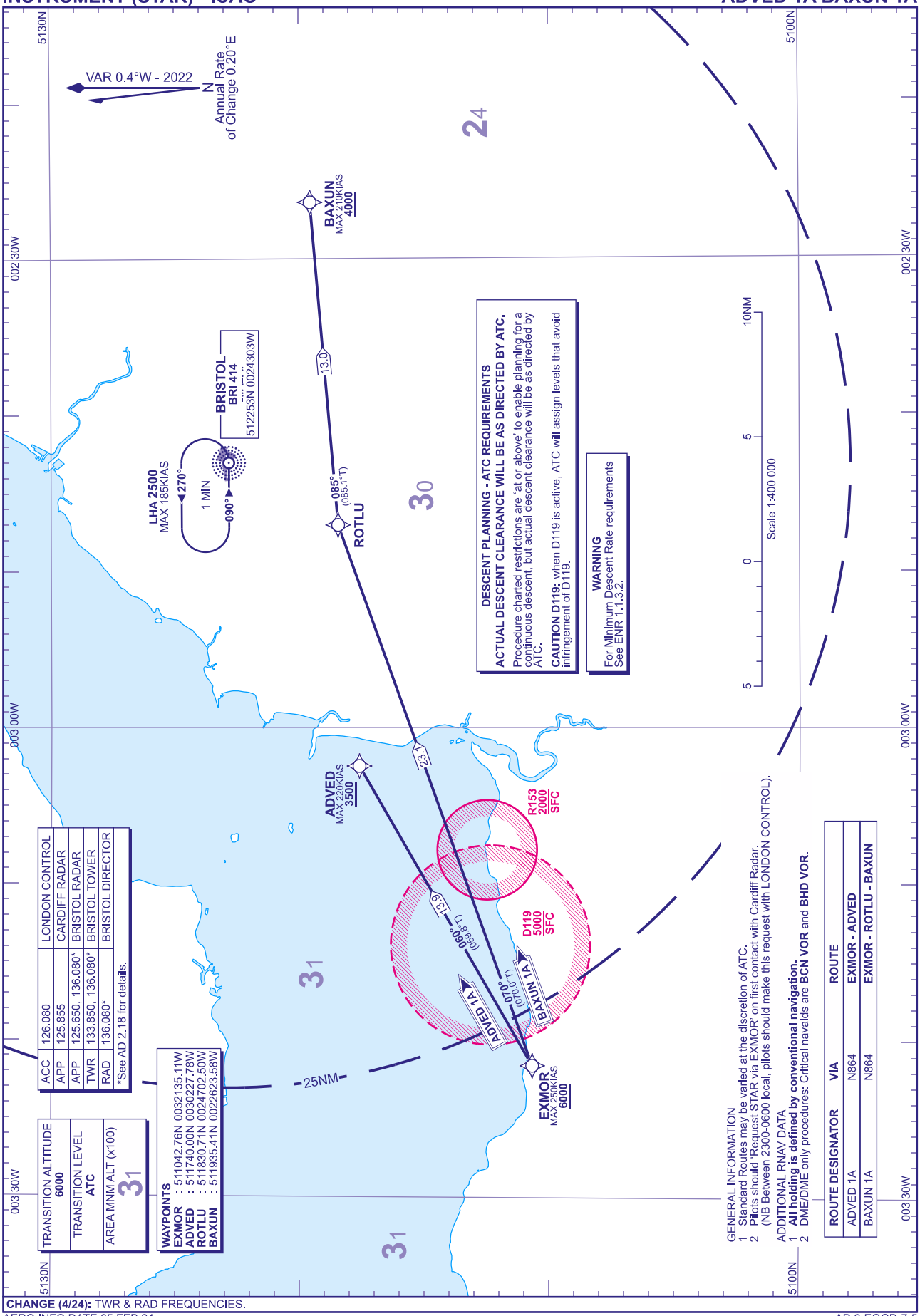
AERO INFO DATE 05 FEB 24

AD 2-EGGD-7-4

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL
RWY 09/27
ADVED 1A BAXUN 1A



ACC	126.080	LONDON CONTROL
APP	125.855	CARDIFF RADAR
APP	125.650, 136.080*	BRISTOL RADAR
TWR	133.850, 136.080*	BRISTOL TOWER
RAD	136.080*	BRISTOL DIRECTOR

*See AD 2.18 for details.

TRANSITION ALTITUDE 6000
TRANSITION LEVEL ATC
AREA MNM ALT (x100) 31

WAYPOINTS
EXMOR : 511042.76N 0032135.11W
ADVED : 511740.00N 0030227.78W
ROTLU : 511830.71N 0024702.50W
BAXUN : 511935.41N 0022623.58W

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Pilots should 'Request STAR via EXMOR' on first contact with Cardiff Radar. (NB Between 2300-0600 local, pilots should make this request with LONDON CONTROL).

ADDITIONAL RNAV DATA
1 **All holding is defined by conventional navigation.**
2 DME/DME only procedures: Critical navalds are **BCN VOR** and **BHD VOR.**

ROUTE DESIGNATOR	VIA	ROUTE
ADVED 1A	N864	EXMOR - ADVED
BAXUN 1A	N864	EXMOR - ROTLU - BAXUN

CHANGE (4/24): TWR & RAD FREQUENCIES.

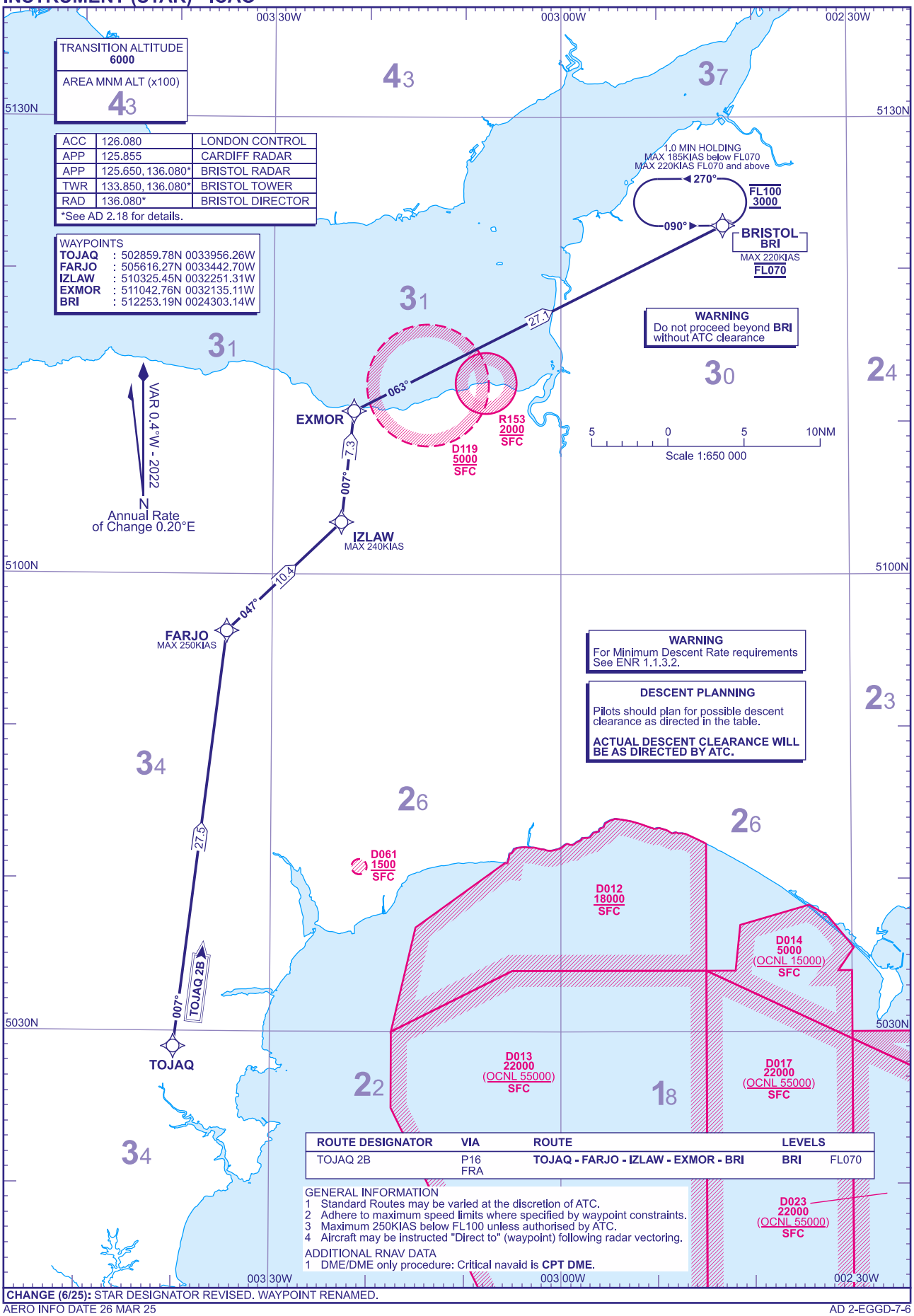
AERO INFO DATE 05 FEB 24

AD 2-EGGD-7-5

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL TOJAQ 2B



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
TOJAQ 2B	P16 FRA	TOJAQ - FARJO - IZLAW - EXMOR - BRI	BRI	FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.

ADDITIONAL RNAV DATA
1 DME/DME only procedure: Critical navaid is **CPT DME**.

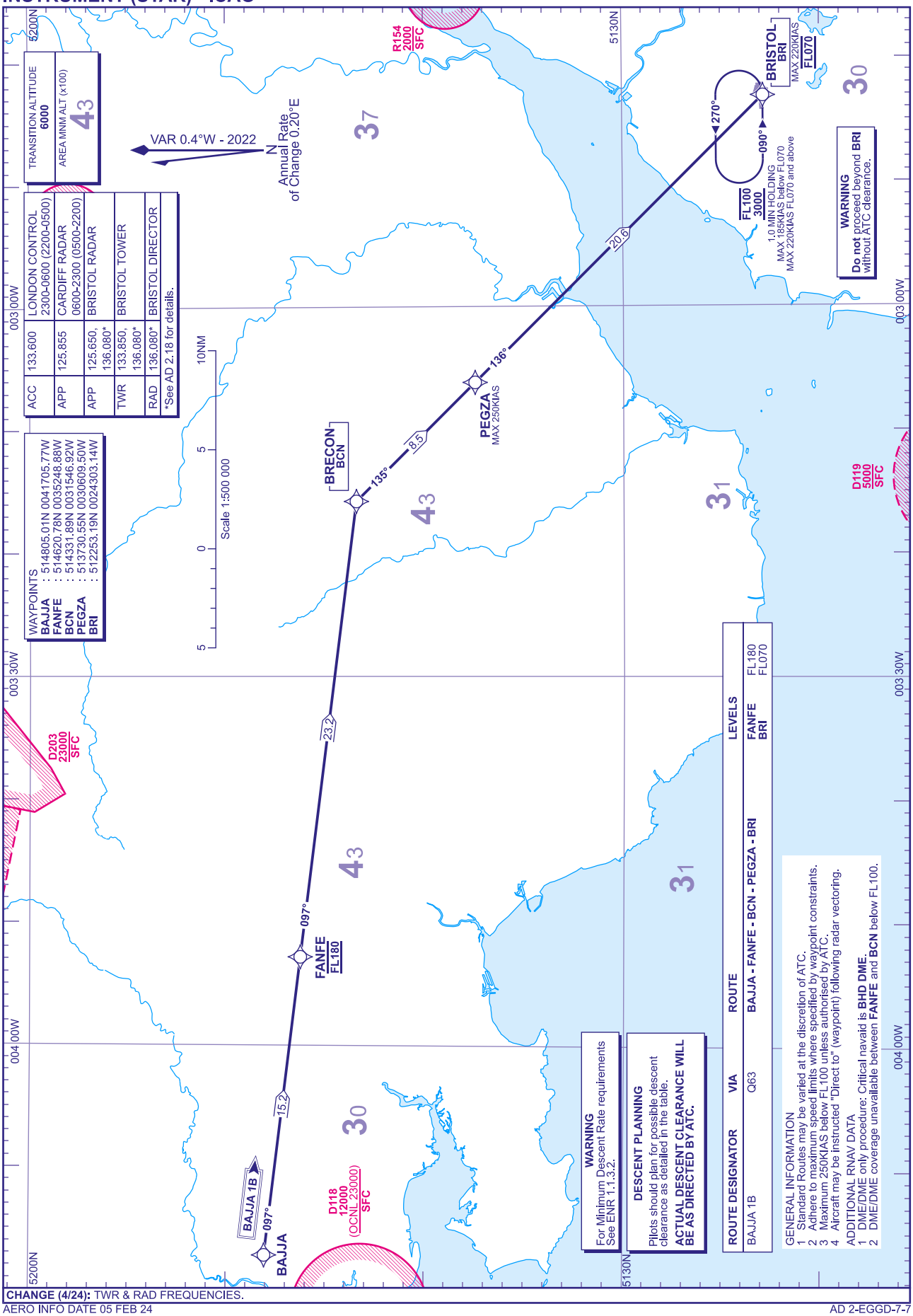
CHANGE (6/25): STAR DESIGNATOR REVISED. WAYPOINT RENAMED.

AERO INFO DATE 26 MAR 25

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

BRISTOL BAJJA 1B



CHANGE (4/24): TWR & RAD FREQUENCIES.

AERO INFO DATE 05 FEB 24

AD 2-EGGD-7-7

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Standard Instrument Arrival Coding Tables

BRISTOL WEVBE 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WEVBE1B	001	IF	WEVBE	520736.93N 0025921.14W	N	-	-	-	-	FL160	-	RNAV5
WEVBE1B	002	TF	UBCAM	515704.18N 0030012.19W	N	183° (182.9°)	-0.4	10.6	LEFT	FL150	-	RNAV5
WEVBE1B	003	TF	INGUR	514241.67N 0025136.75W	N	160° (159.6°)	-0.4	15.3	RIGHT	-	-250	RNAV5
WEVBE1B	004	TF	BRI	512253.19N 0024303.14W	N	165° (164.9°)	-0.4	20.5	-	FL070	-220	RNAV5

BRISTOL ELREW 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ELREW1B	001	IF	ELREW	520750.16N 0030638.15W	N	-	-	-	-	FL160	-	RNAV5
ELREW1B	002	TF	DIZIM	520223.59N 0031107.44W	N	207° (207.0°)	-0.4	6.1	LEFT	-	-	RNAV5
ELREW1B	003	TF	BCN	514331.89N 0031546.92W	N	189° (188.7°)	-0.4	19.1	LEFT	-	-	RNAV5
ELREW1B	004	TF	PEGZA	513730.55N 0030609.50W	N	135° (135.1°)	-0.4	8.5	-	-	-250	RNAV5
ELREW1B	005	TF	BRI	512253.19N 0024303.14W	N	136° (135.3°)	-0.4	20.6	-	FL070	-220	RNAV5

BRISTOL FIFAH 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FIFAH1B	001	IF	FIFAH	515248.51N 0041534.00W	N	-	-	-	-	FL170	-	RNAV5
FIFAH1B	002	TF	AMMAN	515025.95N 0035954.00W	N	104° (103.7°)	-0.4	10.0	-	-	-	RNAV5
FIFAH1B	003	TF	BCN	514331.89N 0031546.92W	N	104° (103.9°)	-0.4	28.3	RIGHT	-	-	RNAV5
FIFAH1B	004	TF	PEGZA	513730.55N 0030609.50W	N	135° (135.1°)	-0.4	8.5	-	-	-250	RNAV5
FIFAH1B	005	TF	BRI	512253.19N 0024303.14W	N	136° (135.3°)	-0.4	20.6	-	FL070	-220	RNAV5

BRISTOL ICTAM 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ICTAM1B	001	IF	ICTAM	513137.37N 0010948.12W	N	-	-	-	-	FL220	-	RNAV5
ICTAM1B	002	TF	SAWPE	513504.67N 0013916.42W	N	281° (280.8°)	-0.4	18.7	-	-	-	RNAV5
ICTAM1B	003	TF	ASHUM	513607.25N 0015336.46W	N	277° (276.8°)	-0.4	9.0	LEFT	-	-300	RNAV5
ICTAM1B	004	TF	POMAX	513137.63N 0020452.42W	N	238° (237.5°)	-0.4	8.3	RIGHT	-	-250	RNAV5
ICTAM1B	005	TF	BRI	512253.19N 0024303.14W	N	250° (250.1°)	-0.4	25.4	-	FL070	-220	RNAV5

CHANGE (3/23): PAGE RENUMBERED. WEVBE 1B, ELREW 1B, ICTAM 1B ADDED.
AERO INFO DATE 19 DEC 22

Standard Instrument Arrival Coding Tables

BRISTOL DAWLY 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DAWLY1B	001	IF	DAWLY	503427.31N 0032750.23W	N	-	-	-	-	-	-	RNAV5
DAWLY1B	002	TF	EXMOR	511042.76N 0032135.11W	N	007° (006.2°)	-0.4	36.5	RIGHT	-	-250	RNAV5
DAWLY1B	003	TF	BRI	512253.19N 0024303.14W	N	063° (063.0°)	-0.4	27.1	-	FL070	-220	RNAV5

BRISTOL Runway 09 ADVED 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ADVED1A	001	IF	EXMOR	511042.76N 0032135.11W	N	-	-	-	-	6000	-250	RNAV1
ADVED1A	002	TF	ADVED	511740.00N 0030227.78W	N	060° (059.8°)	-0.4	13.9	-	3500	-220	RNAV1

BRISTOL Runway 27 BAXUN 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BAXUN1A	001	IF	EXMOR	511042.76N 0032135.11W	N	-	-	-	-	6000	-250	RNAV1
BAXUN1A	002	TF	ROTLU	511830.71N 0024702.50W	N	070° (070.0°)	-0.4	23.1	RIGHT	-	-250	RNAV1
BAXUN1A	003	TF	BAXUN	511935.41N 0022623.58W	N	085° (085.1°)	-0.4	13.0	-	4000	-210	RNAV1

BRISTOL TOJAQ 2B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TOJAQ2B	001	IF	TOJAQ	502859.78N 0033956.26W	N	-	-	-	-	-	-	RNAV1
TOJAQ2B	002	TF	FARJO	505616.27N 0033442.70W	N	007° (006.9°)	-0.4	27.5	RIGHT	-	-250	RNAV1
TOJAQ2B	003	TF	IZLAW	510325.45N 0032251.31W	N	047° (046.2°)	-0.4	10.4	LEFT	-	-240	RNAV1
TOJAQ2B	004	TF	EXMOR	511042.76N 0032135.11W	N	007° (006.3°)	-0.4	7.3	RIGHT	-	-240	RNAV1
TOJAQ2B	005	TF	BRI	512253.19N 0024303.14W	N	063° (063.0°)	-0.4	27.1	-	FL070	-220	RNAV1

BRISTOL BAJJA 1B

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BAJJA1B	001	IF	BAJJA	514805.01N 0041705.77W	N	-	-	-	-	-	-	RNAV1
BAJJA1B	002	TF	FANFE	514620.78N 0035248.88W	N	097° (096.4°)	-0.4	15.2	-	FL180	-	RNAV1
BAJJA1B	003	TF	BCN	514331.89N 0031546.92W	N	097° (096.7°)	-0.4	23.2	RIGHT	-	-	RNAV1
BAJJA1B	004	TF	PEGZA	513730.55N 0030609.50W	N	135° (135.1°)	-0.4	8.5	-	-	-250	RNAV1
BAJJA1B	005	TF	BRI	512253.19N 0024303.14W	N	136° (135.3°)	-0.4	20.6	-	FL070	-220	RNAV1

CHANGE (6/25): TOJAQ STAR DESIGNATOR REVISED. WAYPOINT RENAMED.
AERO INFO DATE 25 MAR 25

RNAV Hold Coding Tables

BRISTOL BRI Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BRI	-	-	BRI	512253.19N 0024303.14W	Y	090° (089.6°)	-0.4	1 MIN	LEFT	-FL100 +3000	-185* -220**	RNAV1/ RNAV5

* below FL070
** FL070 and above

CHANGE (3/23): PAGE RENUMBERED. NAVIGATION PERFORMANCE.
AERO INFO DATE 20 DEC 22

INSTRUMENT APPROACH CHART - ICAO

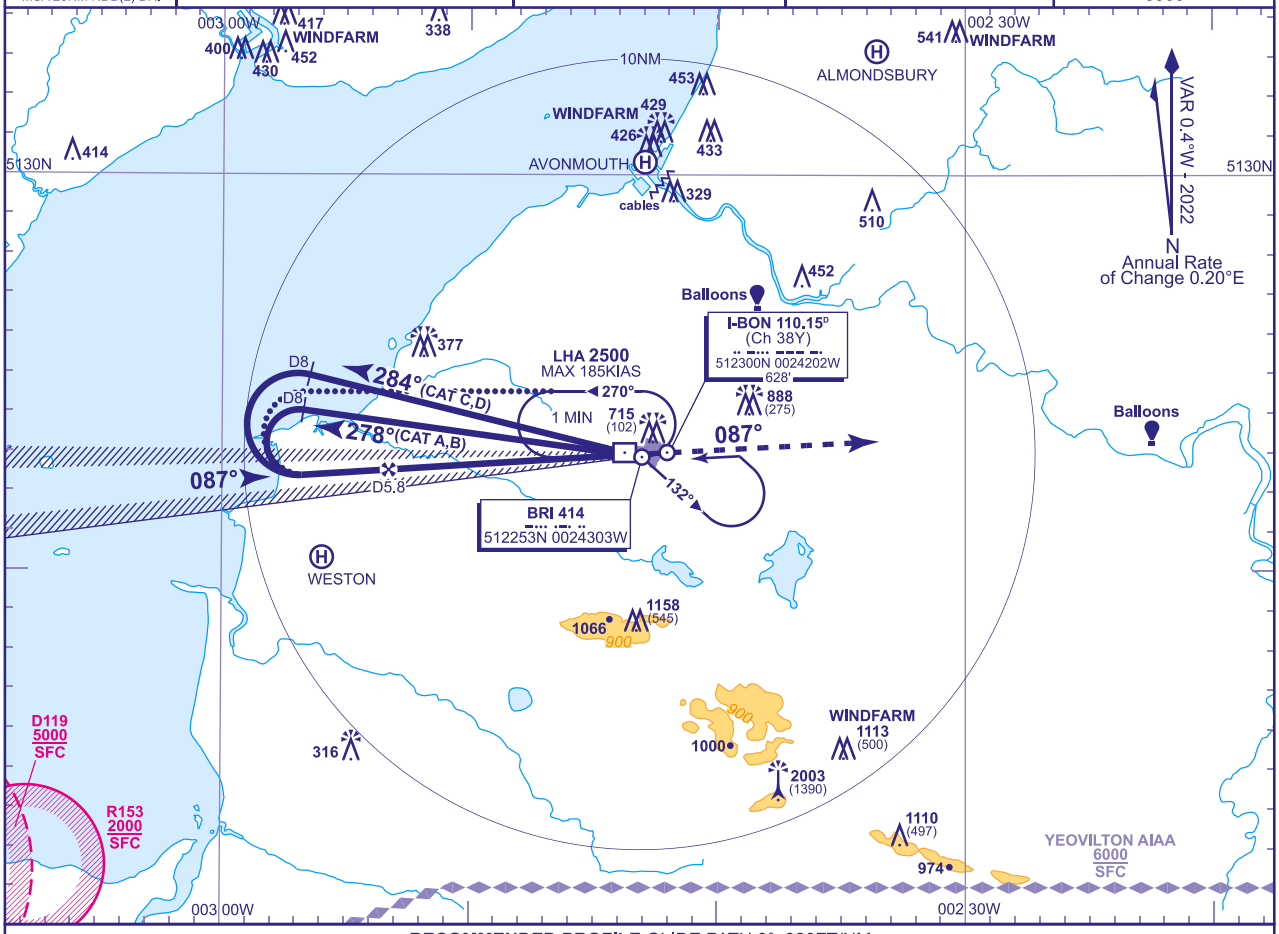
BRISTOL ILS/DME/NDB(L) RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BRI

TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	622
APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	613
RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION	
ATIS 126.030	BRISTOL INFORMATION	2003 AMSL (1390) (ABOVE THR)	
*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

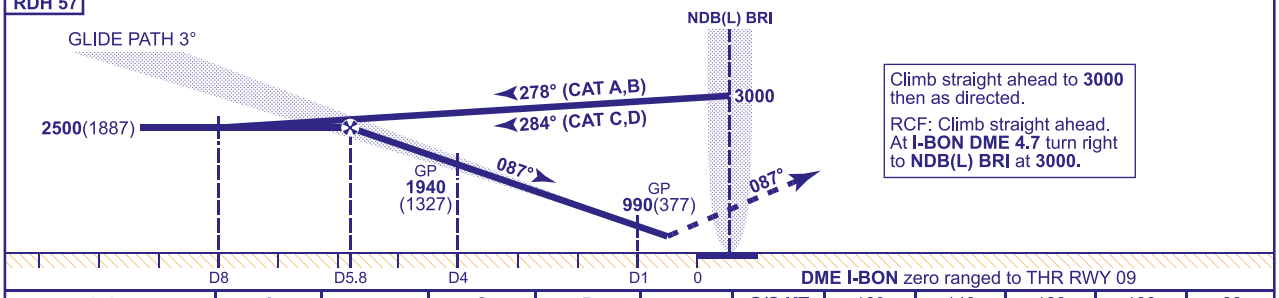
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-BON	5	4	3	2	1
ALT(HGT)	**2260**(1647)	**1940**(1327)	**1620**(1007)	**1310**(697)	**990**(377)

RDH 57



Climb straight ahead to **3000** then as directed.

RCF: Climb straight ahead. At **I-BON DME 4.7** turn right to **NDB(L) BRI** at **3000.**

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**770**(157)	**780**(167)	**790**(177)	**800**(187)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) BRI at **3000** in holding pattern, turn left and descend on the extended outbound leg to **2500**. At I-BON DME 8 turn left to intercept LOC inbound. Then continue as for basic procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-BON
Advise ATC. Radar Ranges will be provided at 8NM outbound and at 6NM and 4NM inbound (See note 5).

NOTES
1 Lowest altitude to commence procedure from hold is **2500**.
2 Maximum KIAS for procedure is 110KIAS (CAT A); 140KIAS (CAT B); 185KIAS (CAT C,D).
3 Below CAT I minima, Glide Path anomalies may be observed.
4 GP Fluctuations may be experienced when taxiing aircraft are transiting through the Sensitive Area.
5 ATC unable to provide Radar Ranges when operating SSR only.

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25

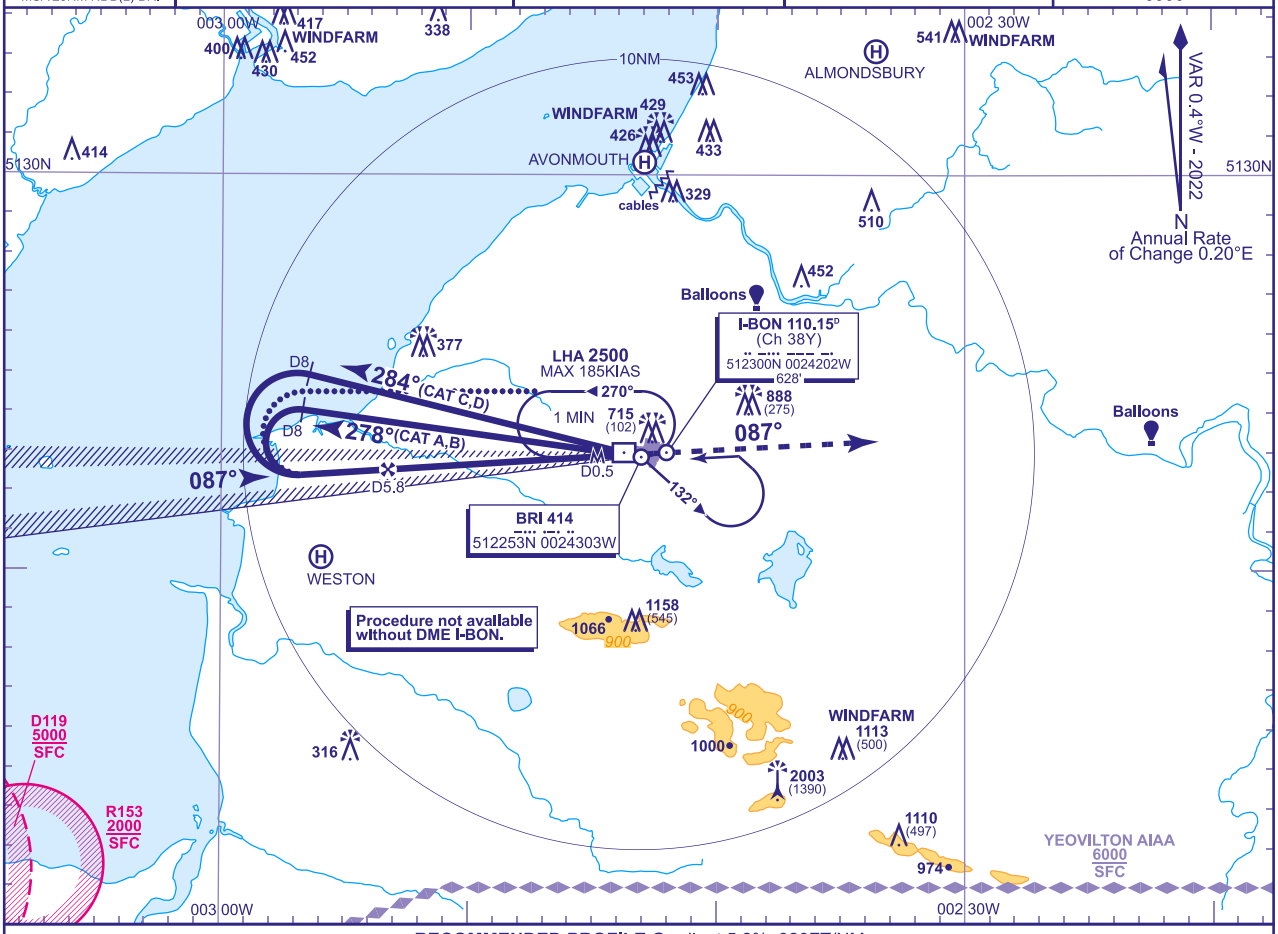
AD 2-EGGD-8-1

INSTRUMENT APPROACH CHART - ICAO

BRISTOL LOC/DME/NDB(L) RWY 09
(ACFT CAT A,B,C,D)

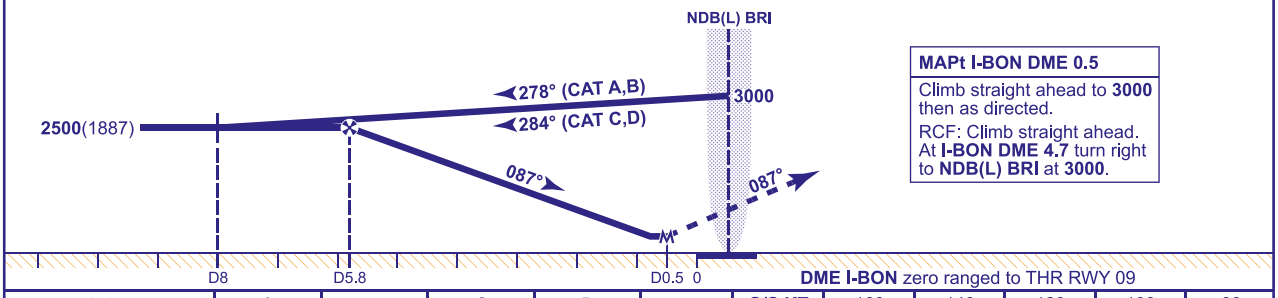
MSA 25NM NDB(L) BRI	TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	622
	APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	613
	RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION 2003 AMSL (1390)(ABOVE THR)	
	ATIS 126.030	BRISTOL INFORMATION		
	*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-BON	5	4	3	2	1
ALT(HGT)	**2260**(1647)	**1940**(1327)	**1620**(1007)	**1310**(697)	**990**(377)



MAPt I-BON DME 0.5

Climb straight ahead to **3000** then as directed.

RCF: Climb straight ahead. At **I-BON DME 4.7** turn right to **NDB(L) BRI** at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**900**(287)	**900**(287)	**900**(287)	**900**(287)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) BRI at **3000** in holding pattern, turn left and descend on the extended outbound leg to **2500**. At I-BON DME 8 turn left to intercept LOC inbound. Then continue as for basic procedure.

NOTES **1** Lowest altitude to commence procedure from hold is **2500**.
2 Maximum KIAS for procedure is 110KIAS (CAT A); 140KIAS (CAT B); 185KIAS (CAT C,D).

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25
AD 2-EGGD-8-2

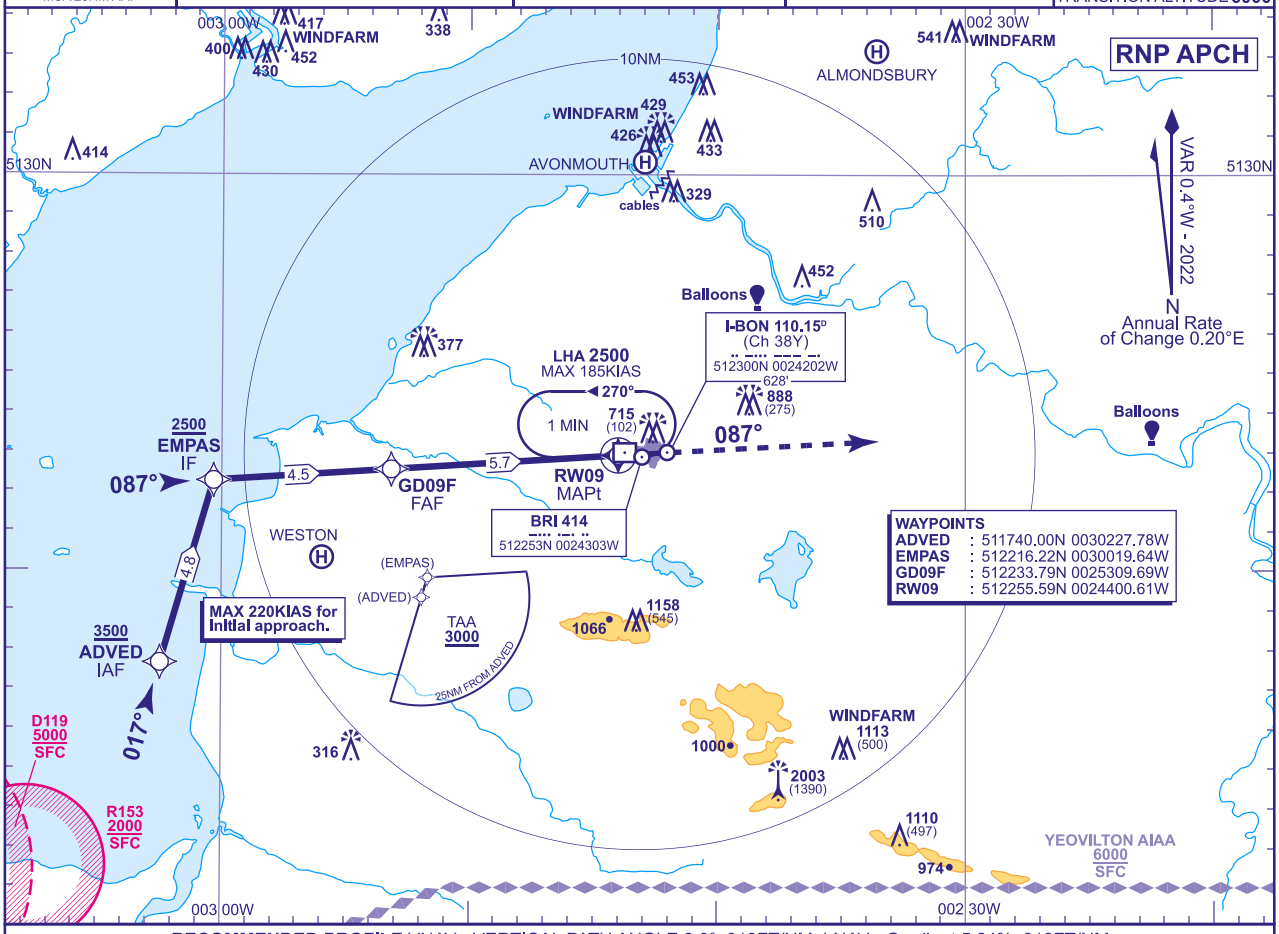
INSTRUMENT APPROACH CHART - ICAO

BRISTOL
RNP
RWY 09
(ACFT CAT A,B,C,D)

TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	622
APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	613
RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION	
ATIS 126.030	BRISTOL INFORMATION	2003 AMSL (1390) (ABOVE THR)	
*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

30 MSA 25NM ARP

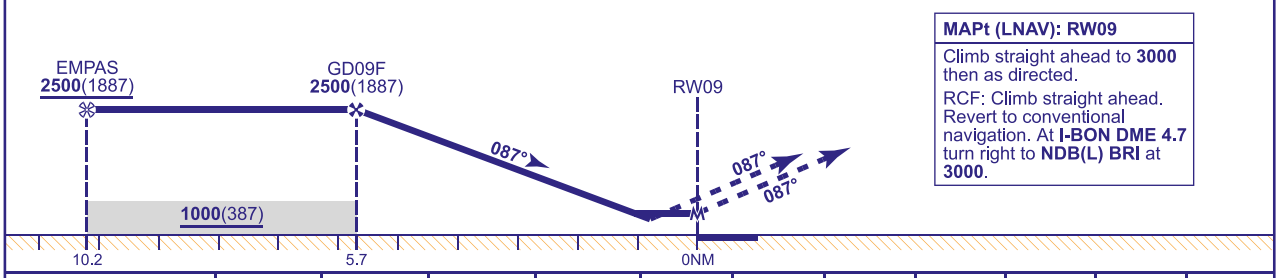
MIN TEMP -10°C
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0°, 318FT/NM, LNAV - Gradient 5.24%, 318FT/NM

NM to RW09	5	4	3	2	1
ALT(HGT)	**2270**(1657)	**1950**(1337)	**1630**(1017)	**1310**(697)	**990**(377)

TCH 57



MAPt (LNAV): RW09
Climb straight ahead to **3000** then as directed.
RCF: Climb straight ahead. Revert to conventional navigation. At **I-BON DME 4.7** turn right to **NDB(L) BRI** at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**910**(297)	**910**(297)	**910**(297)	**910**(297)
	LNAV	**910**(297)	**910**(297)	**910**(297)	**910**(297)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES **1** Pilots should 'Request RNP Approach' on first contact with Bristol Radar.

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25

INSTRUMENT APPROACH CHART - ICAO

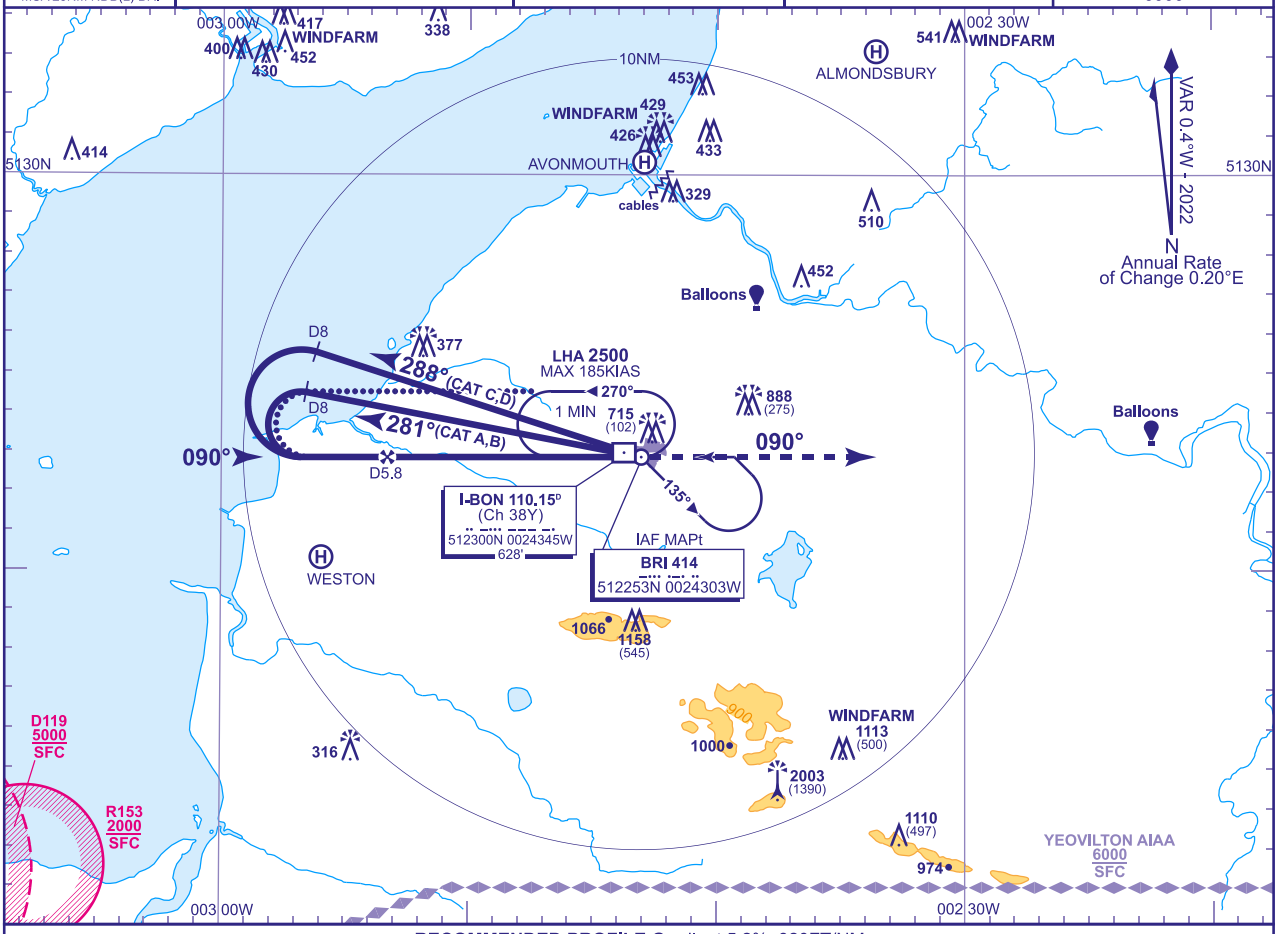
BRISTOL NDB(L)/DME RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BRI

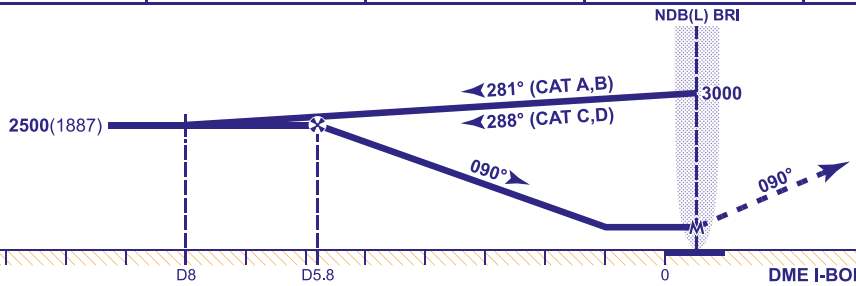
TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	**622**
APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	**613**
RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION **2003 AMSL** (1390)(ABOVE THR)	
ATIS 126.030	BRISTOL INFORMATION		
*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-BON	5	4	3	2	1
ALT(HGT)	**2260**(1647)	**1940**(1327)	**1620**(1007)	**1300**(687)	**980**(367)



MAPt NDB(L) BRI
Climb straight ahead to **3000** then as directed.
RCF: Climb straight ahead. At **I-BON DME 4.7** turn right to **NDB(L) BRI** at **3000.**

DME I-BON zero ranged to THR RWY 09

Aircraft Category		A	B	C	D
OCA (OCH)	With DME or RADAR	**940**(327)	**940**(327)	**940**(327)	**940**(327)
	No DME or RADAR	**N/A**	**N/A**	**1000**(387)	**1000**(387)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	840	740	630	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN Overhead IAF (NDB(L) BRI) at **3000** in holding pattern, turn left and descend on the extended outbound leg to **2500**(1887). At I-BON DME 8 turn left onto FAT. From FAF (I-BON DME 5.8) descend to MDH.

AIRCRAFT UNABLE TO RECEIVE DME I-BON Advise ATC. Radar Ranges will be passed at 8NM outbound and at 5.8NM (See note 4).

ALTERNATIVE TIMED PROCEDURE CAT C and D aircraft may, in the absence of either DME I-BON or radar ranges, fly outbound on baseturn procedure for 2MIN 12SEC. (Note: timed procedure **not available for CAT A or B aircraft**).

NOTES
1 Lowest altitude to commence procedure from hold is **2500**.
2 Maximum KIAS for procedure is 110KIAS (CAT A); 140KIAS (CAT B); 185KIAS (CAT C,D).
3 FAT offset 3.11° from RWY C/L.
4 ATC unable to provide Radar Ranges when operating SSR only.

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25 AD 2-EGGD-8-4

INSTRUMENT APPROACH CHART - ICAO

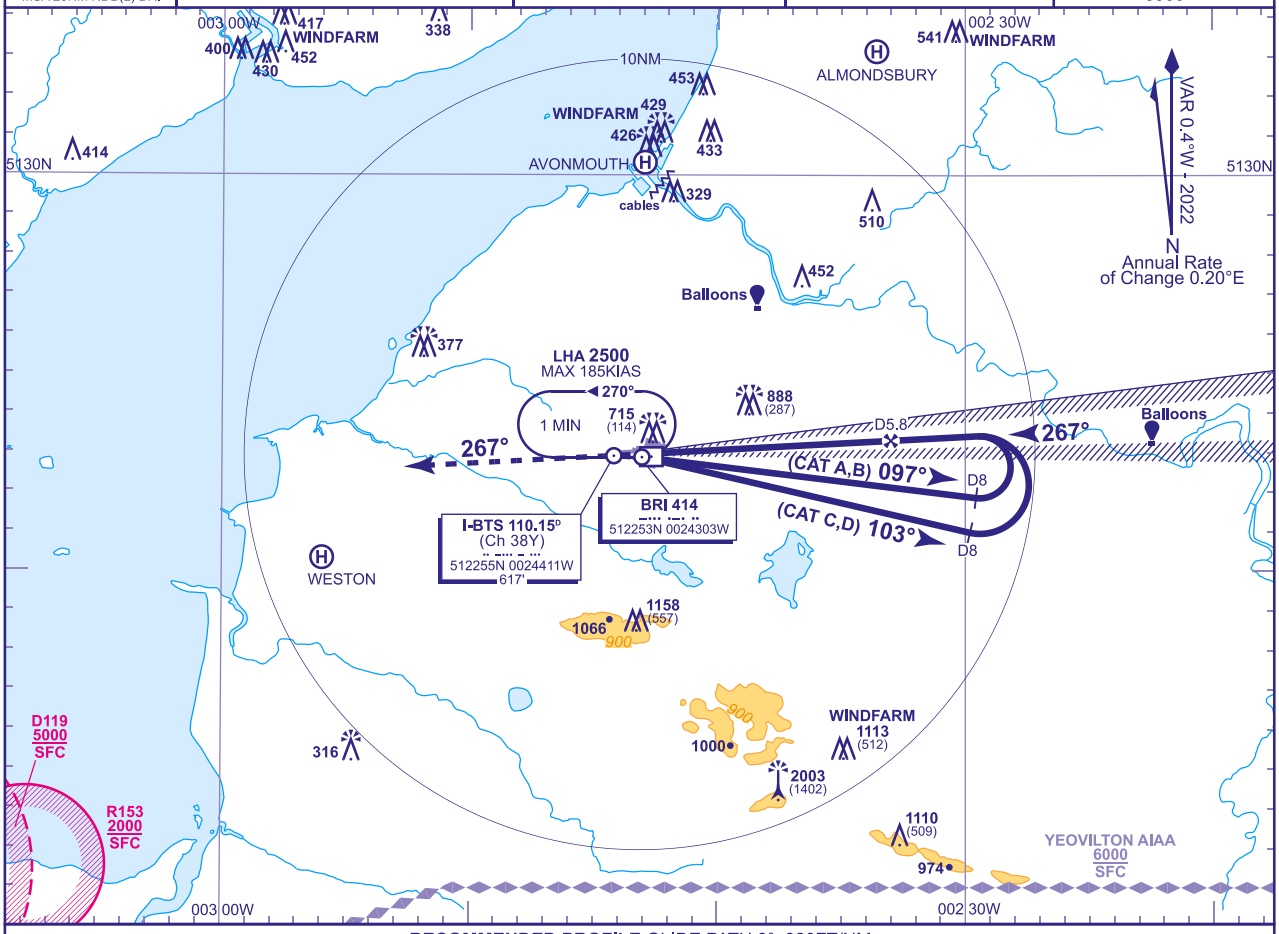
BRISTOL ILS/DME/NDB(L) RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BRI

TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	622
APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	601
RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION 2003 AMSL (1402) (ABOVE THR)	
ATIS 126.030	BRISTOL INFORMATION		
*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



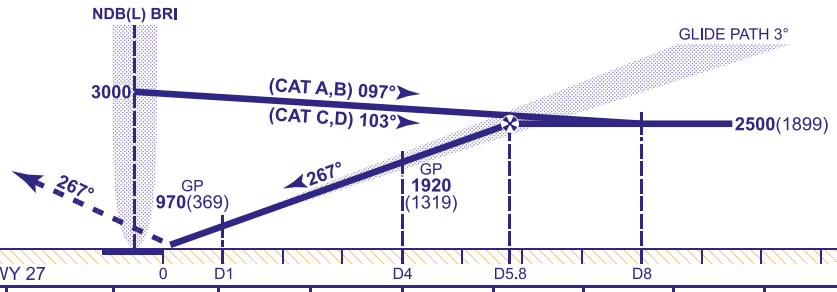
RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-BTS	5	4	3	2	1
ALT(HGT)	**2240**(1639)	**1920**(1319)	**1610**(1009)	**1290**(689)	**970**(369)

RDH 50

Climb straight ahead to **3000** then as directed.

RCF: Climb straight ahead. At **I-BTS DME 4.7** turn right to **NDB(L) BRI** at **3000.**



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**750**(149)	**759**(158)	**768**(167)	**779**(178)
	CAT II	**664**(63)	**672**(71)	**682**(81)	**694**(93)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	430

AIRCRAFT UNABLE TO RECEIVE DME I-BTS
Advise ATC. Radar Ranges will be provided at 8NM outbound and at 6NM and 4NM inbound (See note 4).

NOTES
1 Lowest altitude to commence procedure from hold is **2500**.
2 Maximum KIAS for procedure is 110KIAS (CAT A); 140KIAS (CAT B); 185KIAS (CAT C,D).
3 ILS GP Flags may occur at 8° left of RWY C/L below 2300ft AGL.
4 ATC unable to provide Radar Ranges when operating SSR only.

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25

AD 2-EGGD-8-5

INSTRUMENT APPROACH CHART - ICAO

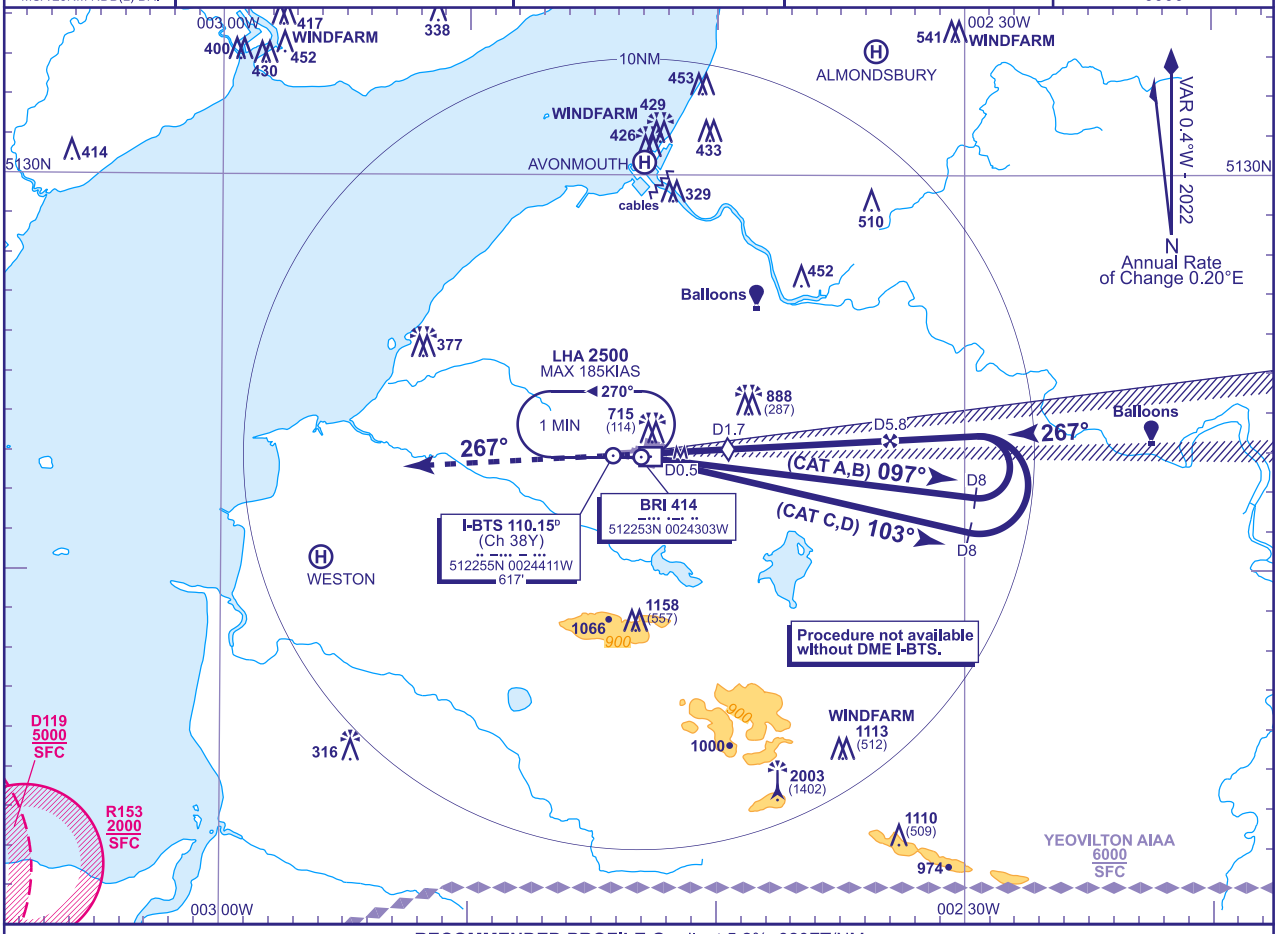
BRISTOL LOC/DME/NDB(L) RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BRI

TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	622
APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	601
RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION 2003 AMSL (1402)(ABOVE THR)	
ATIS 126.030	BRISTOL INFORMATION		
*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

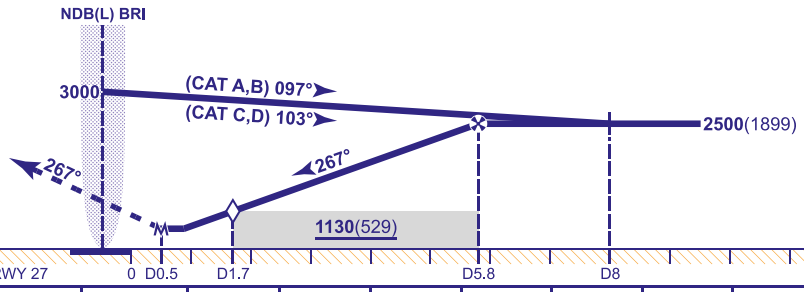
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-BTS	5	4	3	2	1
ALT(HGT)	**2240**(1639)	**1920**(1319)	**1610**(1009)	**1290**(689)	**970**(369)

MAPt I-BTS DME 0.5
Climb straight ahead to **3000** then as directed.
RCF: Climb straight ahead. At **I-BTS DME 4.7** turn right to **NDB(L) BRI** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**910**(309)	**910**(309)	**910**(309)	**910**(309)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	430

NOTES **1** Lowest altitude to commence procedure from hold is **2500**.
2 Maximum KIAS for procedure is 110KIAS (CAT A); 140KIAS (CAT B); 185KIAS (CAT C,D).

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25
AD 2-EGGD-8-6

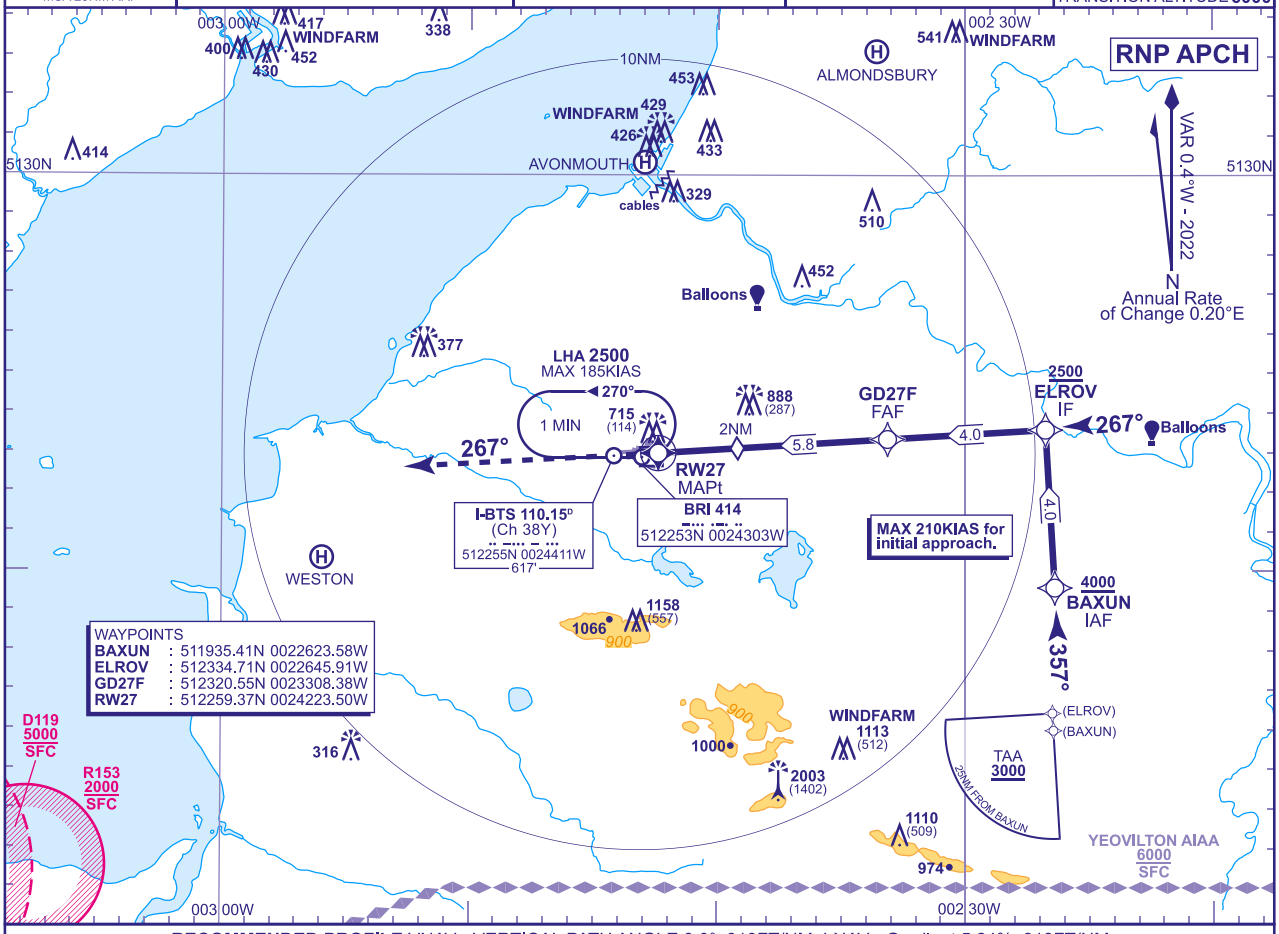
INSTRUMENT APPROACH CHART - ICAO

BRISTOL
RNP
RWY 27
(ACFT CAT A,B,C,D)

TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	**622**
APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	**601**
RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION **2003 AMSL** (1402) (ABOVE THR)	
ATIS 126.030	BRISTOL INFORMATION		
*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

30 MSA 25NM ARP

MIN TEMP **-10°C**
TRANSITION ALTITUDE **6000**

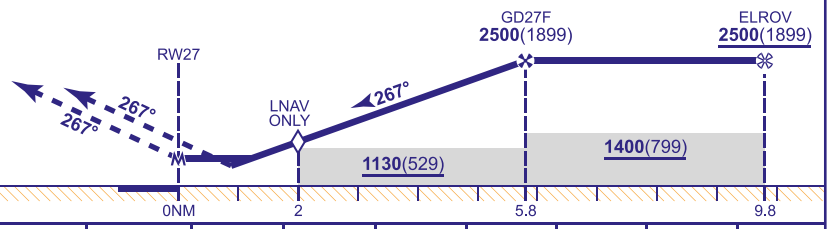


RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0°, 318FT/NM, LNAV - Gradient 5.24%, 318FT/NM

NM to RW27	5	4	3	2 (LNAV SDF)	1
ALT(HGT)	**2250**(1649)	**1930**(1329)	**1610**(1009)	**1290**(689)	**970**(369)

TCH 50

MAPt (LNAV): RW27
Climb straight ahead to **3000** then as directed.
RCF: Climb straight ahead. Revert to conventional navigation. At **I-BTS DME 4.7** turn right to **NDB(L) BRI** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**950**(349)	**950**(349)	**950**(349)	**950**(349)
	LNAV	**1000**(399)	**1000**(399)	**1000**(399)	**1000**(399)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES 1 Pilots should 'Request RNP Approach' on first contact with Bristol Radar.

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25

INSTRUMENT APPROACH CHART - ICAO

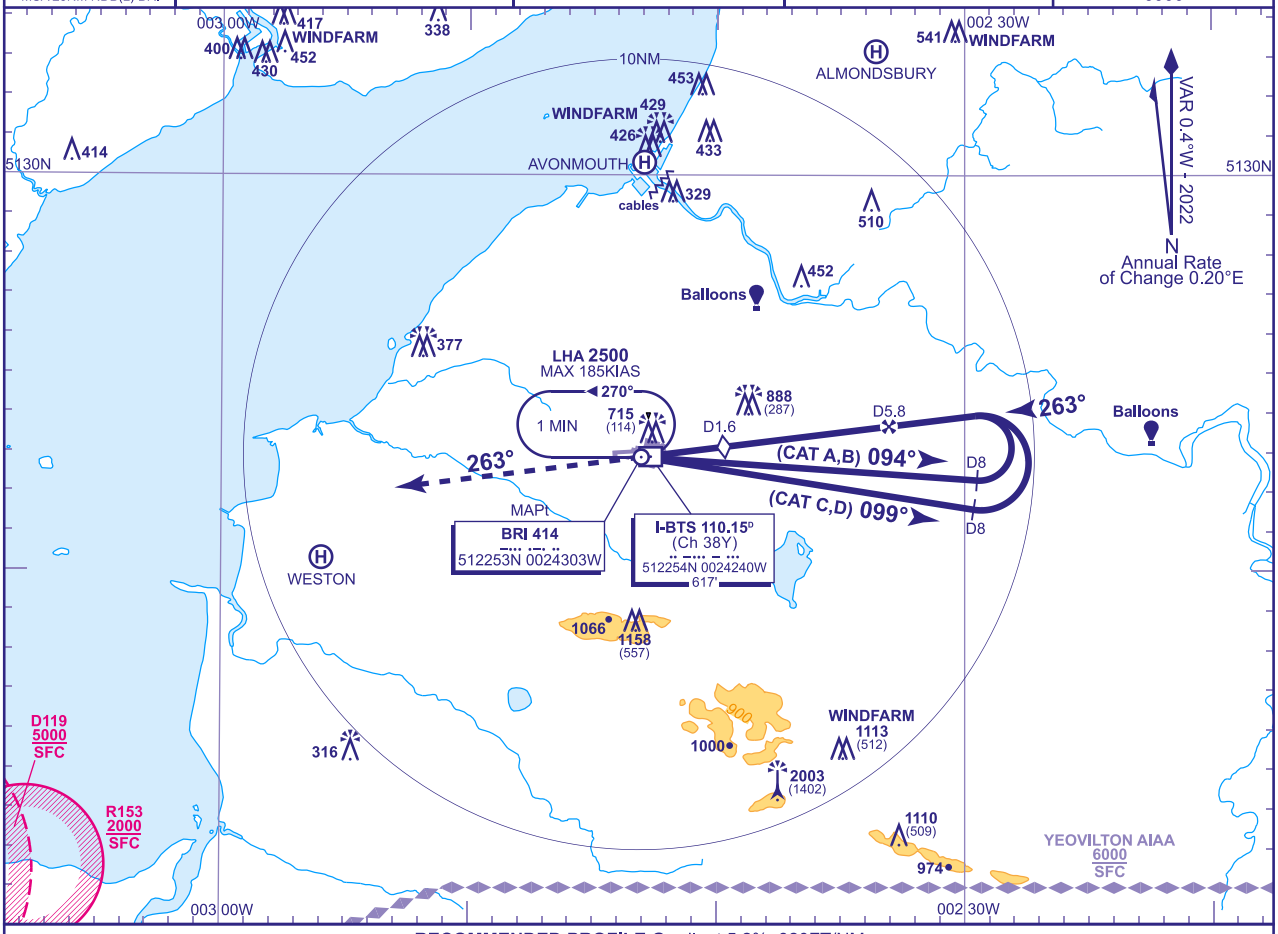
BRISTOL NDB(L)/DME RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) BRI

TWR 133.850, 136.080*	BRISTOL TOWER	AD ELEVATION	622
APP 125.650, 136.080*	BRISTOL RADAR	THR ELEVATION	601
RAD 136.080*	BRISTOL DIRECTOR	OBSTACLE ELEVATION 2003 AMSL (1402)(ABOVE THR)	
ATIS 126.030	BRISTOL INFORMATION		
*See AD 2.18 for details.		BEARINGS ARE MAGNETIC	

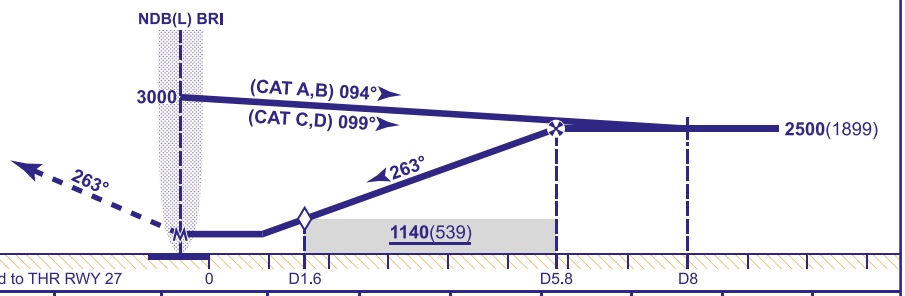
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-BTS	5	4	3	2
ALT(HGT)	**2250**(1649)	**1930**(1329)	**1610**(1009)	**1290**(689)

MAPt NDB(L) BRI
Climb straight ahead to **3000** then as directed.
RCF: Climb straight ahead. At **I-BTS DME 4.7** turn right to **NDB(L) BRI** at **3000.**



Aircraft Category		A	B	C	D
OCA (OCH)	With DME or RADAR	**970**(369)	**970**(369)	**970**(369)	**970**(369)
	No DME or RADAR	N/A	N/A	**1240**(639)	**1240**(639)
VM(C)OCA (OCH AAL)	Total Area	**1050**(428)	**1190**(568)	**1460**(838)	**1560**(938)
	North of RWY 09/27	**1050**(428)	**1190**(568)	**1290**(668)	**1320**(698)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	430

AIRCRAFT UNABLE TO RECEIVE DME I-BTS Advise ATC. Radar Ranges will be passed at 8NM outbound and at 5.8NM inbound (See note 4).

ALTERNATIVE TIMED PROCEDURE CAT C and D aircraft may, in the absence of either DME I-BTS or radar ranges, fly outbound on baseturn procedure for 2MIN 30SEC. (Note: timed procedure **not available for CAT A or B aircraft**).

NOTES
1 Lowest altitude to commence procedure from hold is **2500**.
2 Maximum KIAS for procedure is 110KIAS (CAT A); 140KIAS (CAT B); 185KIAS (CAT C,D).
3 FAT offset 3.8° from RWY C/L and crosses the extended RWY 27 C/L, 1NM from the THR (I-BTS D1.7).
4 ATC unable to provide Radar Ranges when operating SSR only.

CHANGE (5/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 MAR 25
AD 2-EGGD-8-8

Instrument Approach Procedure Coding Tables

BRISTOL RNP RWY 09 - Instrument Approach Procedure via EMPAS

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09C	001	IF	EMPAS	N	-	-	2500	-220	512216.22N 0030019.64W	IF 10.2NM
R09C	002	TF	GD09F	N	087° (086.2°)	-	2500	-	512233.79N 0025309.69W	FAF 5.7NM
R09C	003	TF	RW09	Y	087° (086.3°)	-	-	-	512255.59N 0024400.61W	MAPt
R09C	004	CA	-	-	087° (086.3°)	-	3000	-	-	-

BRISTOL RNP RWY 09 - Instrument Approach Procedure via ADVED

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	ADVED	N	-	-	3500	-220	511740.00N 0030227.78W	IAF
R09R	002	TF	EMPAS	N	017° (016.2°)	RIGHT	2500	-220	512216.22N 0030019.64W	IF 10.2NM
R09R	003	TF	GD09F	N	087° (086.2°)	-	2500	-	512233.79N 0025309.69W	FAF 5.7NM
R09R	004	TF	RW09	Y	087° (086.3°)	-	-	-	512255.59N 0024400.61W	MAPt
R09R	005	CA	-	-	087° (086.3°)	-	3000	-	-	-

BRISTOL RNP RWY 27 - Instrument Approach Procedure via ELROV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27C	001	IF	ELROV	N	-	-	2500	-210	512334.71N 0022645.91W	IF 9.8NM
R27C	002	TF	GD27F	N	267° (266.7°)	-	2500	-	512320.55N 0023308.38W	FAF 5.8NM
R27C	003	TF	RW27	Y	267° (266.6°)	-	-	-	512259.37N 0024223.50W	MAPt
R27C	004	CA	-	-	267° (266.6°)	-	3000	-	-	-

BRISTOL RNP RWY 27 - Instrument Approach Procedure via BAXUN

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	BAXUN	N	-	-	4000	-210	511935.41N 0022623.58W	IAF
R27L	002	TF	ELROV	N	357° (356.7°)	LEFT	2500	-210	512334.71N 0022645.91W	IF 9.8NM
R27L	003	TF	GD27F	N	267° (266.7°)	-	2500	-	512320.55N 0023308.38W	FAF 5.8NM
R27L	004	TF	RW27	Y	267° (266.6°)	-	-	-	512259.37N 0024223.50W	MAPt
R27L	005	CA	-	-	267° (266.6°)	-	3000	-	-	-

CHANGE (5/25): SPECIFICATION CHANGE.
AERO INFO DATE 07 MAR 25

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EGCK — CAERNARFON

EGCK AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCK — CAERNARFON

EGCK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 530607N Long: 0042015W Mid Point of Runway 07/25
2	Direction and distance from city	4 NM SW of Caernarfon.
3	Elevation / Reference temperature / Mean Low Temperature	14 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	179 FT
5	Magnetic Variation / Annual Change	0.26°W (2027) / 0.19°E
6	AD Administration Address Telephone Telefax E-mail address Web address	AIR CAERNARFON LTD. Caernarfon Aerodrome, Dinas Dinlle, Gwynedd, LL54 5TP. 01286-830800 01286-830280 info@caernarfonairport.com www.caernarfonairport.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGCK AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1645 (0800-1545).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	0900-1645 (0800-1545).
9	Handling	0900-1645 (0800-1545).
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. SAR Operations H24. The aerodrome and fuel may be available by arrangement outside the above hours. All requests to operate outside notified hours are to be made through operations on 01286-830800. Requests for extension to operating hours made less than 2 hours before notified closing time cannot be guaranteed.

EGCK AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AL48 JET A-1 de-icing additive, AVGAS 100LL W80, W100.
3	Fuelling facilities/capacity	50,000 LT. Delivery 500 LT per minute.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Yes
6	Repair facilities for visiting aircraft	Yes
7	Remarks	Pilots requiring fuel on arrival should make this request when inbound on A/G frequency

EGCK AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	Yes, On Aerodrome.
3	Transportation	Taxi on request, Buses. Nearest railway station: Bangor.
4	Medical facilities	Limited First Aid.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGCK AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category A2 available on request.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	In the event of an incident, light aircraft can be removed using aerodrome resources.
4	Remarks	

EGCK AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGCK AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGCK AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI (LGTD) - 530604.66N 0042013.09W.

EGCK AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCK1916) 25/APPROACH 07/ TAKE-OFF	TREE	530612.45N 0041945.92W	41 FT		No	
(EGCK1209) 07/APPROACH 25/ TAKE-OFF	VEHICLES ON ROAD	530601.78N 0042037.55W	28 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGCK AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGCK AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
07	070.83°	932 x 23 M	RWY surface: Asphalt	530603.04N 0042032.21W 179.1 FT	THR 12.3 FT	
25	250.83°	932 x 23 M	RWY surface: Asphalt	530610.07N 0041958.61W 179.1 FT	THR 11.4 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 07 Landing threshold displaced by 97 M to allow 1:20 over vehicles on road.
						RWY 25 Landing threshold displaced by 173 M to allow 1:20 approach surface over trees and HT cable.

EGCK AD 2.13 DECLARED DISTANCES

Runway designator	**TORA**	**TODA**	**ASDA**	**LDA**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
07	727 M	727 M	727 M	810 M	
25	799 M	799 M	799 M	727 M	

EGCK AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07		LI Green Wingbar					Red		EDGE: LI Omni-directional inset
25		LI Green Wingbar	APAPI Left/3.5° 20 FT				Red		EDGE: LI Omni-directional inset

EGCK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 530604.75N 0042012.61W (LGTD), next to WDI.
3	TWY edge and centre line lighting	EDGE: Blue edge lighting on Taxiway B.
4	Secondary power supply/switch-over time	Yes/1 minute.
5	Remarks	

EGCK AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Helicopters to approach using active runway and land as instructed by ATC.

EGCK AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CAERNARFON ATZ A circle, 2 NM radius, centred at 530607N 0042015W on longest notified runway (07/ 25)	Upper limit: 2000 FT AGL Lower limit: SFC	G	CAERNARFON RADIO English	3000 FT		Special procedures are in operation for aircraft arriving at and departing from Caernarfon: See AD 2.22. Air ambulance and SAR operations may occur H24: See AD 2.20.

EGCK AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	CAERNARFON RADIO	122.255 A/G frequency.			0900-1645 (0800-1545).	ATZ hours co-incident with A/G hours, but not by arrangement.
SAR	COASTGUARD 936	122.255			H24	Due to SAR H24 operations, all aircraft to transmit blind calls out of airfield licensed hours.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
	RESCUE 936	122.255			H24	

EGCK AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGCK AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All pilots and personnel, except for passengers and other persons that are being escorted, shall wear high visibility clothing at all times whilst airside.
b) Smoking airside strictly prohibited.
c) Not available to aircraft unable to communicate by radio with A/G. Aircraft with radio failure must follow standard radio failure procedures.
d) Each aircraft commander is responsible for the safety of their passengers and other crew members. To ensure the safety of passengers and crew members, the aircraft commander (or other competent crew member) is to supervise and escort passengers whilst airside
e) All movements outside published hours are subject to the out of hours conditions published on the airport website.

2 GROUND MOVEMENT

a) Taxilanes A and C have been introduced between Stands 1 to 10. Aircraft using these taxilanes must not have a wingspan in excess of 17 M. Aircraft must adhere strictly to the yellow centre-line along the taxilane as maximum clearance from the centre-line to obstruction within the taxilane is 14 M. Aircraft parking on Stands 1 to 10 must park north of the yellow markings on the stand to ensure taxilane clearance is maintained at all times.
b) The responsibility for wingtip clearance during taxiing and parking remains with the flight crew.
c) Aircraft should only taxi on paved surfaces, aircraft using the grass to taxi onto their stand do so at the discretion of the flight crew.
d) Pilots must exercise caution and moderate taxiing speeds on Taxi Lanes A, B, C due to the possible presence of pedestrians and intense aircraft movements.
e) All parking is self-manoeuvring, assistance available on request.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Turbulance might on occassion be experienced when there is an easterly wind.
b) High ground beyond 6 NM southeast of the aerodrome rising to 3560 FT AAL/AMSL.
c) Runway 07 take-off; Beyond 11000 M there is mountainous terrain, rising to 3560 FT.
d) Due to RSPB reserve 1 KM south of the aerodrome, between September-March, there will be increased bird activity.
e) Air Ambulance and Coastguard helicopter operations are based at Caernarfon and will be given the appropriate priority over other traffic when operating. These operations may occur H24 including outside of the operating hours of the aerodrome and pilots are to make a blind call on Caernarfon Radio 122.255 MHz when the aerodrome is published as closed and they are transiting through or close to the ATZ.
f) During periods of heavy rain, runways are liable to have patches of standing water.
g) Light aircraft are warned of the possible effect of wake turbulence by preceding helicopters on approach or departure.
h) Light aircraft should also be aware of the possible effect of rotor downwash generated by large helicopters operating on the aerodrome, including the home based S92 SAR Helicopters.

5 HELICOPTER OPERATIONS

a) No helicopter movements within 300 M, downwind of the wind turbines.

6 USE OF RUNWAYS

a) Runway 02/20 is unlicensed and unavailable for aircraft requiring the use of a licenced runway. For details including dimensions and declared distances contact the aerodrome.
b) All CAT operations to make the approach to the licensed Runway 07/25.
c) Circuit Directions: Runways 07 and 20 – LH, Runways 25 and 02 – RH.
d) Due to high ground and HT pylons left of Runway 25 centre-line, at range approximately 4 NM, pilots are to ensure the aircraft is established on runway centre-line before commencing descent on the APAPIs.

7 TRAINING

Not applicable

EGCK AD 2.21 NOISE ABATEMENT PROCEDURES

Helicopters must not overfly any caravan site within the ATZ below 1000 FT on the QFE.

EGCK AD 2.22 FLIGHT PROCEDURES

a) The aerodrome is in the vicinity of the Valley MATZ. Civil aircraft are to fly at 1500 FT or below (Holyhead QNH) in the Menai Straits area.
b) **Arriving aircraft.** Aircraft should call Valley ATC on 125.230 at least 15 minutes before ETA Caernarfon ATZ boundary.
c) **Departing aircraft.** Unless otherwise instructed, departing aircraft should call Valley ATC on 125.230 immediately after take-off.
d) Circuit height: 800 FT AAL. Aircraft are requested to join overhead not above 1300 FT AAL. Circuit direction: Runway 07 - LH, Runway 25 - RH.

EGCK AD 2.23 ADDITIONAL INFORMATION

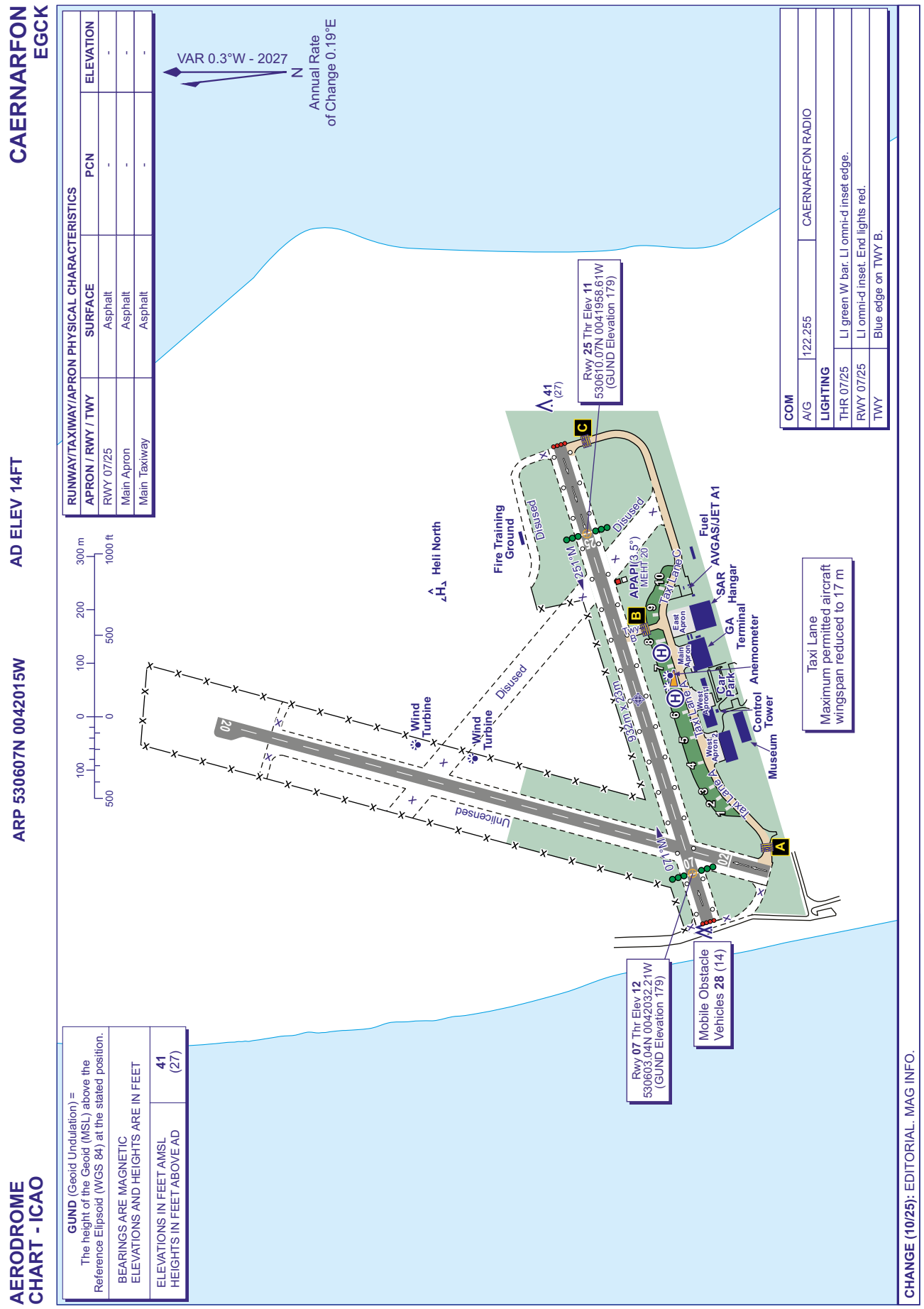
Not applicable

EGCK AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCK-2-1

EGCK AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable



AERO INFO DATE 17 JUL 25

AD 2-EGCK-2-1

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EGSC — CAMBRIDGE

EGSC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSC — CAMBRIDGE

EGSC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 521218N Long: 0001030E Centre of Runway 05/23 Asphalt.
2	Direction and distance from city	1.5 NM E of Cambridge.
3	Elevation / Reference temperature / Mean Low Temperature	48 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	0.57°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax E-mail address Web address	CAMBRIDGE CITY AIRPORT The Airport, Cambridge CB5 8RX. 01223-373213 (ATC) 01223-373717 (GA) 01223-295631 (ATIS) 01223-373535 (Airport Operations) 01223-373214 (Cambridge Jet Centre/FBO) 01223-373502 (ATC) 01223-373259 (Airport Operations) airport.dutymanager@cambridgeairport.com www.cambridgeairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGSC AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0800-1800 (0700-1700); see remarks.
2	Customs and immigration	As AD hours. 24 hours prior notice required. See item 12.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours. By arrangement with FBO.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours, and by arrangement. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	FBO (Mandatory handling over 2.7 tonnes and commercial flights) as AD hours. Cambridge Aeroclub: (General Aviation Under 2.7 tonnes) 0830-1800 (0730-1700).
10	Security	By arrangement with FBO.
11	De-icing	As AD hours.
12	Remarks	Cambridge City Airport is an approved port of entry under designated status of Customs and Excise. All Crew/Passenger passport details for flights arriving from outside the UK (including EGNS, EGJB,EGJJ) must be submitted by the operator at https://www.submit-general-aviation-report.service.gov.uk/login. Please email us once this has been completed. Please ensure purpose and duration of visit is stated and if firearms will be carried onboard. Failure to comply may result in a fine. ATS Mon-Fri hours as above, Sat & Sun No ATS, Local flying only, No visiting aircraft. Aerodrome is strictly PPR; visiting aircraft 24 hour prior notification required. Contact Air Traffic Control either by: Email: ATC.admin@cambridgeairport.com Web: www.cambridgeairport.com Phone: 01223-373213.

EGSC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	No cargo processing facilities available.
2	Fuel and oil types	JET A1 AL48 (with anti-ice additive), AVGAS 100LL. Other oils and fluids available by arrangement.
3	Fuelling facilities/capacity	JET A1 AL48 and AVGAS Bowser service.
4	De-icing facilities	Mobile de-icer, Kilfrost ABC-K and Type II.
5	Hangar space for visiting aircraft	By arrangement up to CL605.
6	Repair facilities for visiting aircraft	
7	Remarks	Mandatory handling for all aircraft except leisure flights under 2.7 tonnes MTOW. Executive handling services available from Cambridge Jet Centre, Tel: 01223-373214, e-mail: fbo@cambridgeairport.com. Company frequency C/S Marshall Cambridge 131.780 Handling for visiting light General Aviation aircraft under 2.7 tonnes is only mandatory outside of the Cambridge Aeroclub opening hours. All training flights contact Cambridge ATC, Tel: 01223-373213, e-mail: atc.admin@cambridgeairport.com All none maintenance military flights over 2.7 tonnes contact FBO. All landing/handling/parking fees charged according to aircraft MTOW (tonnes). Other charges according to services provided. GPU, toilet service, aircraft de-icing, potable water, steps up to Airbus 320.

EGSC AD 2.5 PASSENGER FACILITIES

1	Hotels	In Cambridge, 3 miles.
2	Restaurants	
3	Transportation	Regular bus to City centre, taxis on request with handling agent. Nearest railway station; Cambridge 3 miles.
4	Medical facilities	Yes. Company first aid. Hospital 3 miles.
5	Bank and Post Office	Banks in Cambridge.
6	Tourist Office	Cambridge 3 miles.
7	Remarks	

EGSC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4 Higher Category (up to Category 8) may be available with 24 hours prior notification. The RFF category provided for all-cargo, mail, ferry, training, test, positioning and end-of-life aircraft operations may be reduced in accordance with EASA AMC2 ADR.OPS.B.010(a)(2) (c) Table 2, and subject to prior agreement with the aircraft operator.
2	Rescue equipment	Equipment information available on application.
3	Capability for removal of disabled aircraft	In the event of an incident, light aircraft may be removed using airport resources, provided an indemnity form is signed. Large aircraft may be removed using external resources in conjunction with aircraft operator. Any recovery costs incurred will be charged. Contact Airport Operations for details on 01223-373535.
4	Remarks	

EGSC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Rotary brushes and ploughs.
2	Clearance priorities	Runway 05/23, Taxiway C.

3	Remarks	Latest information from: Tel: Operations 01223-373535.

EGSC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	12 Surface: Concrete and asphalt PCN 8/R/C/W/T 16 Surface: Concrete PCN 23/R/C/W/T 17 Surface: Concrete and asphalt PCN 50/R/C/W/T 2 PCN 22/R/C/W/T CUSTOMS APRON NORTH PCN 17/R/C/W/T CUSTOMS APRON SOUTH PCN 23/R/C/X/T EASTERN APRON Surface: Concrete PCN 14/R/C/X/T
2	Taxiway width, surface and strength	Taxiway A FROM B: 15 M Surface: Concrete PCN 14/R/C/X/T Taxiway A FROM RWY TO B: 20 M Surface: Concrete PCN 42/R/C/X/T Taxiway B: 20 M Surface: Asphalt PCN 15/R/C/X/T Taxiway C FROM RWY TO A: 15 M Surface: Asphalt PCN 24/F/C/X/U Taxiway D: 23 M Surface: Concrete PCN 50/R/C/W/T Taxiway E: 12 M Surface: Concrete PCN 11/R/C/W/T Taxiway F: 23 M Surface: Concrete PCN 39/R/C/X/T
3	Altimeter checkpoint location and elevation	Apron 49 FT
4	VOR checkpoints	
5	INS checkpoints	Customs Apron 521231.80N 0001036.00E
6	Remarks	

EGSC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	All parking under marshaller guidance or as directed by ATC. See AD 2.EGSC-2-2 Aircraft Parking and Docking Chart for the location of aircraft parking spots.

2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Designation, centre-line, threshold, edge. Runway 23 marked for precision approach aid and Runway 05 for non-precision aid. Illuminated designator sign at each runway exit. Runway light(s): Runway Turn Pad lighting blue elevated edge. Taxiway marking aid(s): Taxiway centre-line marking. Blue reflective markers on Alpha, Bravo and Foxtrot. Taxiway light(s): Runway guard lights and signs at each holding point to the main runway. Blue edge lights on Charlie and Delta.
3	Stop bars and runway guard lights (if any)	Stop Bars at Runway 05/23 Holding Points Alpha, Bravo, Charlie and Delta.
4	Other runway protection measures	
5	Remarks	Holding position signs and runway taxi holding positions, runway designators and runway ahead markings provided between taxiways A, B, C, D and the main runway. WDI: 521203.81N 0001010.92E (LGTD) - 521225.90N 0001053.75E (LGTD).

EGSC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSC10595) 23/APPROACH 05/ TAKE-OFF	TERRAIN	521238.77N 0001055.50E	79 FT		No	
(EGSC10203) 05/APPROACH 23/ TAKE-OFF	CONVEYOR TOP	521156.95N 0000938.24E	78 FT	37 FT	No	
(EGSC10125) 05/APPROACH 23/ TAKE-OFF	STREETLIGHT	521155.36N 0000946.30E	64 FT	16 FT	No	
(EGSC10129) 05/APPROACH 23/ TAKE-OFF	STREETLIGHT	521153.78N 0000951.61E	79 FT	28 FT	No	
(EGSC10130) 05/APPROACH 23/ TAKE-OFF	STREETLIGHT	521153.54N 0000953.56E	80 FT	28 FT	No	
(C009.25) 05/APPROACH 23/TAKE-OFF	CRANE	521130N 0000838E	154 FT	102 FT	Yes Steady red	Expected duration October 2026.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
C022.24	CRANE	521411N 0000916E	381 FT	352 FT	Yes Steady red	Expected duration July 2025.
C035.24	CRANE	521410N 0000917E	374 FT	344 FT	Yes Steady red	End estimated December 2025.
C017.25	CRANE	521408N 0000721E	238 FT	197 FT	Yes Steady red	Expected duration November 2025.
C010.24	CRANE	521356N 0000904E	361 FT	312 FT	Yes Steady red	Expected duration September 2026.
C048.23	CRANE	521340N 0000713E	206 FT	164 FT	Yes Steady red	Expected duration May 2025.
C025.22	CRANE	521258N 0001046E	199 FT	146 FT	Yes Steady red	Mobile crane operating within 0.12 NM radius of centre point.
C021.25	CRANE	521247N 0000904E	253 FT	227 FT	Yes Steady red	Expected duration May 2026.
C022.25	CRANE	521244N 0000944E	128 FT	87 FT	Yes Steady red	Expected duration June 2026.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
C024.22	CRANE	521243N 0001042E	197 FT	148 FT	Yes Steady red	Mobile crane operating within 0.12 NM radius of centre point. Expected duration August 2026.
C008.25	CRANE	521243N 0000636E	197 FT	148 FT	Yes Steady red	Expected duration March 2026.
C006.24	CRANE	521241N 0000848E	227 FT	194 FT	Yes Steady red	Expected duration June 2025.
(EGSC10889)	GP MAST	521226.20N 0001054.52E	62 FT	34 FT	No	
(EGSC10890)	WINDSLEEVE	521225.90N 0001053.75E	61 FT	27 FT	No	
(EGSC10651)	BUILDING CHIMNEY	521225.58N 0001005.86E	148 FT	112 FT	No	
C033.25	CRANE	521207N 0000630E	180 FT	148 FT	Yes Steady red	Expected duration May 2027.
(EGSC4160)	WINDSLEEVE	521203.81N 0001010.92E	62 FT	27 FT	Yes Red	
(EGSC10894)	RADAR	521203.08N 0001039.42E	83 FT	49 FT	Yes Red	
(EGSC10681)	CHURCH SPIRE	521156.15N 0000738.70E	255 FT	215 FT	Yes Red	
C012.25	CRANE	521153N 0000822E	304 FT	255 FT	Yes Steady red	Expected duration October 2027.
C025.23	CRANE	521145N 0001055E	139 FT	89 FT	Yes Steady red	Mobile crane operating within 0.08 NM radius of position. Expected duration to 19 December 2025.
(EGSC10726)	INDUSTRIAL CHIMNEY	521033.29N 0000825.80E	258 FT	212 FT	Yes Red	
C029.24	CRANE	521023.80N 0000757.70E	385 FT	334 FT	Yes Steady red	Expected duration January 2027.
(EGSC10571)	MAST	521011.49N 0001128.58E	357 FT	186 FT	Yes Red	

EGSC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/Telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	CAMBRIDGE
10	Additional information (limitation of service, etc.)	Meteorological Information not available outside of AD operating hours.

EGSC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
05	049.87°	1964 x 45 M	RWY surface: Asphalt, Grooved PCN 50/F/C/W/T	521202.12N 0000959.26E 151.0 FT	THR 35.7 FT	RWY 05 0.14% up RWY 23 0.83% down first 400 M
23	229.89°	1964 x 45 M	RWY surface: Asphalt, Grooved PCN 50/F/C/W/T	521235.55N 0001103.83E 151.0 FT	THR 47.5 FT TDZ 47.5 FT	RWY 05 0.14% up RWY 23 0.83% down first 400 M

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	109 x 150 M	1886 x 300 M	90 x 90 M -			RWY 05 Threshold displaced by 216 M.
	133 x 150 M	1886 x 300 M	90 x 90 M -			RWY 23 Threshold displaced by 145 M.

EGSC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	1843 M	1952 M	1843 M	1628 M	
23	1886 M	2019 M	1886 M	1742 M	
05	1255 M	1363 M	1255 M		Take-off from intersection with Taxiway D.
05	580 M	688 M	580 M		Take-off from intersection with Taxiway C.
23	1624 M	1756 M	1624 M		Take-off from intersection with Taxiway A.
23	1519 M	1652 M	1519 M		Take-off from intersection with Taxiway B.
23	1202 M	1335 M	1202 M		Take-off from intersection with Taxiway C.

EGSC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	Centre-line with one crossbar. 420 M Light intensity high	Elev HI wingbars at displaced threshold	PAPI Left/3° 44 FT 296 M			Elev bi-directional with omni-directional component White Light intensity high	Flush bi-directional Red Light intensity high		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
23	Centre-line with five crossbars. 900 M Light intensity high	Flush green threshold bar and elev HI wingbars at displaced threshold	PAPI Left/3° 39 FT 303 M			Elev bi-directional with omni-directional component White Light intensity high	Flush bi-directional Red Light intensity high		

EGSC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 521220.67N 0001057.67E Flashing Green 'CI'. 500 M east north east of the ARP.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 550 M east of the ARP. 521215.02N 0001100.54E
3	TWY edge and centre line lighting	CL: Green bi-directional solarlite 'intelligent' road studs to/from main runway holding points only. EDGE: Blue elevated edge lights on Delta and Charlie Taxiways.
4	Secondary power supply/switch-over time	Standby generator.
5	Remarks	Obstacle lighting.

EGSC AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF H3: 521231.43N 0001025.13E, 151.0 FT TLOF H4: 521231.95N 0001026.91E, 151.0 FT TLOF H5: 521235.13N 0001043.64E, 151.0 FT TLOF H6: 521235.15N 0001044.67E, 151.0 FT
2	TLOF and/or FATO elevation	TLOF H3: 48.9 FT TLOF H4: 48.0 FT TLOF H5: 44.8 FT TLOF H6: 44.8 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	TLOF H3: 19 M x 14 M TLOF surface: Grass TLOF H4: 24 M x 15 M TLOF surface: Grass TLOF H5: 24 M x 15 M TLOF surface: Grass TLOF H6: 24 M x 15 M TLOF surface: Grass
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGSC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CAMBRIDGE ATZ A circle, 2.5 NM radius, centred at 521218N 0001030E on longest notified runway (05/23)	Upper limit: 2000 FT AGL Lower limit: SFC	G	CAMBRIDGE APPROACH English	6000 FT		ATZ hours coincident with AD hours as detailed at EGSC AD 2.3.

EGSC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	CAMBRIDGE APPROACH	120.965 DOC 40 NM/ 20,000 FT.			Mon-Fri 0800-1800 (0700-1700).	VDF 521218.25N 0001052.02E On AD.
TWR	CAMBRIDGE TOWER	125.905 DOC 10 NM/ 10,000 FT.			Mon-Fri 0800-1800 (0700-1700).	
ATIS	CAMBRIDGE INFORMATION	134.605 DOC 40 NM/ 20,000 FT.			Mon-Fri 0800-1800 (0700-1700).	
OTHER	CAMBRIDGE FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	CAMBRIDGE EMERGENCY	121.500 Emergency frequency.			O/R	

EGSC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.38°E (2027)	ICMG	111.300 MHz	Mon-Fri 0800-1800 (0700-1700).	521155.95N 0000947.35E		(RWY 23)
ILS/GP	ICMG	332.300 MHz	Mon-Fri 0800-1800 (0700-1700).	521226.26N 0001054.62E		3° ILS Ref Datum Hgt 40 FT.
NDB (L) 1.39°E (2027)	CAM	332.500 kHz	Mon-Fri 0800-1800 (0700-1700).	521238.57N 0001059.01E		On AD. Range 15 NM.
ILS/DME	ICMG	50X 111.300 MHz	Mon-Fri 0800-1800 (0700-1700).	521226.21N 0001054.36E	59 FT	(RWY 23) On AD. Freq paired with ILS I-CMG. DOC 25 NM/10,000 FT.

EGSC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aircraft unable to communicate by radio with ATC will not be accepted.

b) Insurance; ECAC Resolution 25-1 (minimum levels of insurance) shall apply to all carriers licensed in ECAC member states (GEN 1.2.5 refers). All other aircraft using this aerodrome and its facilities are required to have third party liability insurance cover in the sum of at least £1,000,000. Proof of this insurance should be available for inspection at any time while the aircraft is at the aerodrome.
c) Surcharges will be levied on visiting aircraft arriving or departing outside published operational hours.
d) A security charge may be levied on outbound aircraft requiring to use the aerodrome critical part. Contact FBO Tel: 01223-373214 for details.
e) It is a mandatory requirement that all aircrew and ground staff wear high visibility clothing (minimum standard being a high visibility waistcoat) fastened at all times in external airside areas of the airport.
f) Pedestrians must use the defined pedestrian walkways when transiting to and from aircraft.
g) It is the responsibility of the Pilot in Command to ensure that their passengers are escorted by aircrew or ground staff at all times when on foot in external airside areas of the aerodrome.
h) No smoking airside.

2 GROUND MOVEMENT

a) Light aircraft will be directed to the grass parking area in front of Nº 1 Hangar. Parking is on a grid of four rows marked W, X, Y, Z and numbered 1-8 from west to east. All aircraft will be marshalled except Light Aircraft on grass parking areas and based operators, unless advised otherwise by ATS.
b) When taxiing on the grass, keep to cut grass taxiways. The long grass areas are not inspected and are unfit for manoeuvring.
c) Compass Base, Class 1, located on Taxiway C. Serviceability of this facility does not affect the availability of the taxiway for taxiing aircraft.
d) Runway 05/23 Turn Pads 70 M wide - Code D and E aircraft will require maximum nose wheel steering during turn.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Caution - Aerial activity takes place outside of aerodrome published hours.
b) Hangar 23 blocks a large section of Taxiway Alpha from the direct sight of ATC.
c) Runway 05 - possible turbulence in touch-down area.
d) Taxiway Alpha, please be aware of taxiing speeds, uncontrolled pedestrian crossings cross this taxiway.
e) Grass Taxiway November on the right after Holding Point Charlie obscured by holding point sign, follow lead-off line.
f) Possible glare from car park to the right of Runway 23 approach.

5 HELICOPTER OPERATIONS

a) Mainly light helicopter training and corporate activity.
b) Daily Helimed Operations take place outside of aerodrome operating hours.

6 USE OF RUNWAYS

a) Arrival and Departure Restriction. No departures permitted below 400 M RVR.
b) The width at both ends of Runway 05/23 main is twice that delineated by the associated edge lights due to extra pavement at one side. Since runway centre-line lighting is not installed, pilots should ensure that they are correctly lined up, especially if take-off is at night or when the runway is contaminated or in low visibility.
c) Runway 23 Main, in the event of a go-around, conduct the go-around over the main runway avoiding flying over the dead side.

7 TRAINING

Not applicable.

EGSC AD 2.21 NOISE ABATEMENT PROCEDURES

1 Pilots using Cambridge Airport should at all times endeavour to ensure that aircraft are operated in a manner which causes least disturbance to inhabited areas in the vicinity; more specifically:

a) Except when taking off or landing, pilots should avoid flying below 2000 FT (Cambridge QNH) within 3 NM of Cambridge city;
b) Because of the close proximity of working accommodation, aircraft parked on the Airport terminal apron are not to have APUs running for more than 30 minutes before engine start. An environmental levy of £20 will be charged for every additional 15 minutes APU running time.

2 Aircraft may be permitted to make visual approaches. Visual approaches will not normally be permitted if the PAPI are unserviceable. All inbound wide-body aircraft should follow IFR procedures.

3 VISUAL CIRCUIT HEIGHT

Unless otherwise instructed by Air Traffic Control the visual circuit height is 1500 FT for all multi-engined types, 1000 FT for other fixed-wing aircraft. All heights QFE.

4 ARRIVALS

a) Aircraft approaching asphalt Runway 05/23 without assistance from Radar (or ILS, Runway 23) shall follow a descent path from at least 1000 FT that is no lower than the normal approach path indicated by the PAPI.
b) All VFR aircraft experiencing radio fail to conduct a go around along the centreline of the duty runway and follow any light signals received from the tower. Avoid flying over the dead-side of the runway.

5 DEPARTURES

a) **Asphalt Runway 05**

i. The maximum take-off run available shall always be used by other than light types of aircraft. Light aircraft may start their take-off run from abeam Taxiway D or as instructed by ATC. Aircraft which require a left turn after departure shall avoid Cambridge City until at least 2000 FT AAL.
ii. Aircraft carrying out an Instrument Missed Approach Procedure shall maintain runway heading until at least 1600 FT AAL.
iii. Aircraft which require a right turn after departure and those remaining in the circuit shall, as soon as practicable, but not below 500 FT or within the aerodrome boundary, turn right, unless otherwise directed by ATC.

b) **Asphalt Runway 23**

i. Aircraft which require a right turn after departure shall maintain runway heading until at least 2000 FT AAL.
ii. Aircraft carrying out an Instrument Missed Approach Procedure shall maintain runway heading until at least 1600 FT AAL.
iii. Aircraft which require a left turn after departure and those remaining in the circuit shall, as soon as practicable, but not below 500 FT or within the aerodrome boundary, turn left, unless otherwise directed by ATC.

6 CIRCUIT DIRECTIONS

a) The following circuit directions will be adhered to:

Runway 23 - left hand;

Runway 05 - right hand.

7 The above procedures may be departed from at any time to the extent necessary for avoiding immediate danger.

8 REVERSE THRUST

The use of reverse thrust should be kept to a minimum commensurate with operational safety.

9 HELICOPTER OPERATIONS

Routeing to the aerodrome should avoid overflight of, or passing in close proximity to Cambridge City and surrounding villages.

EGSC AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT VIA THE AIRWAYS SYSTEM

a) Aircraft inbound via the airways system must follow the Stansted Standard Arrival Routes (STAR) as shown at AD 2-EGSS-7-STAR Charts.
b) Stansted Director will co-ordinate a level at the CAM NDB(L) and will issue the inbound aircraft with a clearance to leave controlled airspace.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Preferred Departure Routes- via ATS Route Network

i. These routes do not constitute Standard Instrument Departures, are not assessed for obstacle clearance and are not contained within controlled airspace.
ii. These routes contain noise abatement requirements.
iii. These routes are subject to amendment by ATC.
iv. ADNAM and EBOTO are clearance limits. Pilots are to ensure that they have received and acknowledged an airways joining clearance before entering controlled airspace.
v. Pilots departing RWY23 to EBOTO are to ensure that they remain outside the limits of the London TMA to the Southwest of Cambridge in the horizontal and vertical planes (base 4500 FT-5500 FT) and if necessary step-climb to altitude 6000 FT.
vi. Aircraft departing towards ADNAM can expect to be tactically vectored onto their requested route.
vii. Pilots should be aware that IFR departure clearances are not normally available until the aircraft is taxiing for departure.

viii. Loss of communication procedure (outbound aircraft).
Until a clearance to enter CAS has been received and acknowledged, pilots experiencing radio failure are expected to follow the RTF procedure for IFR aircraft outside controlled airspace (ENR 1.1.3 paragraph 3 refers).

Departure to	Airway Route	Via	Runway	Designator	Routing
East-southeast	L6, L9, L10, L608, L620, M189	ADNAM	23	ADNAM	Left turn on track ADNAM, climb to altitude 3000 FT (see note vi).
			05	ADNAM	Right turn on track ADNAM, climb to altitude 3000 FT (see note vi).
South, Southwest & West-northwest	N57, N601, N859, Q63, T420, Y321	EBOTO	23	EBOTO	Climb runway track to altitude 2000 FT, right turn on track EBOTO step-climb to altitude 6000 FT REMAIN OUTSIDE CAS (See note v).
			05	EBOTO	Left turn on track EBOTO, climb to altitude 6000 FT.

3 Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

EGSC AD 2.23 ADDITIONAL INFORMATION

a) Mode S Barometric Pressure Setting Data

London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

b) Flight testing activity frequently undertaken at Cambridge. Testing may take place at short notice and some disruption can be expected.
c) When an aircraft is departing EGSC on an EBOTO, when the pressure is QNH 976 hPa or below, pilots may be issued a non-standard climb, as instructed by ATC.

EGSC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSC-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGSC-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGSC-5-1
INSTRUMENT APPROACH CHART RNP RWY 05 - ICAO
AD 2.EGSC-8-1
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 05 - ICAO
AD 2.EGSC-8-2
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 23 - ICAO
AD 2.EGSC-8-3
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 23 - ICAO
AD 2.EGSC-8-4
INSTRUMENT APPROACH CHART RNP RWY 23 - ICAO
AD 2.EGSC-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 23 - ICAO
AD 2.EGSC-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 05
AD 2.EGSC-8-7
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 23
AD 2.EGSC-8-8

EGSC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

AERODROME CHART - ICAO

ARP 521218N 0001030E

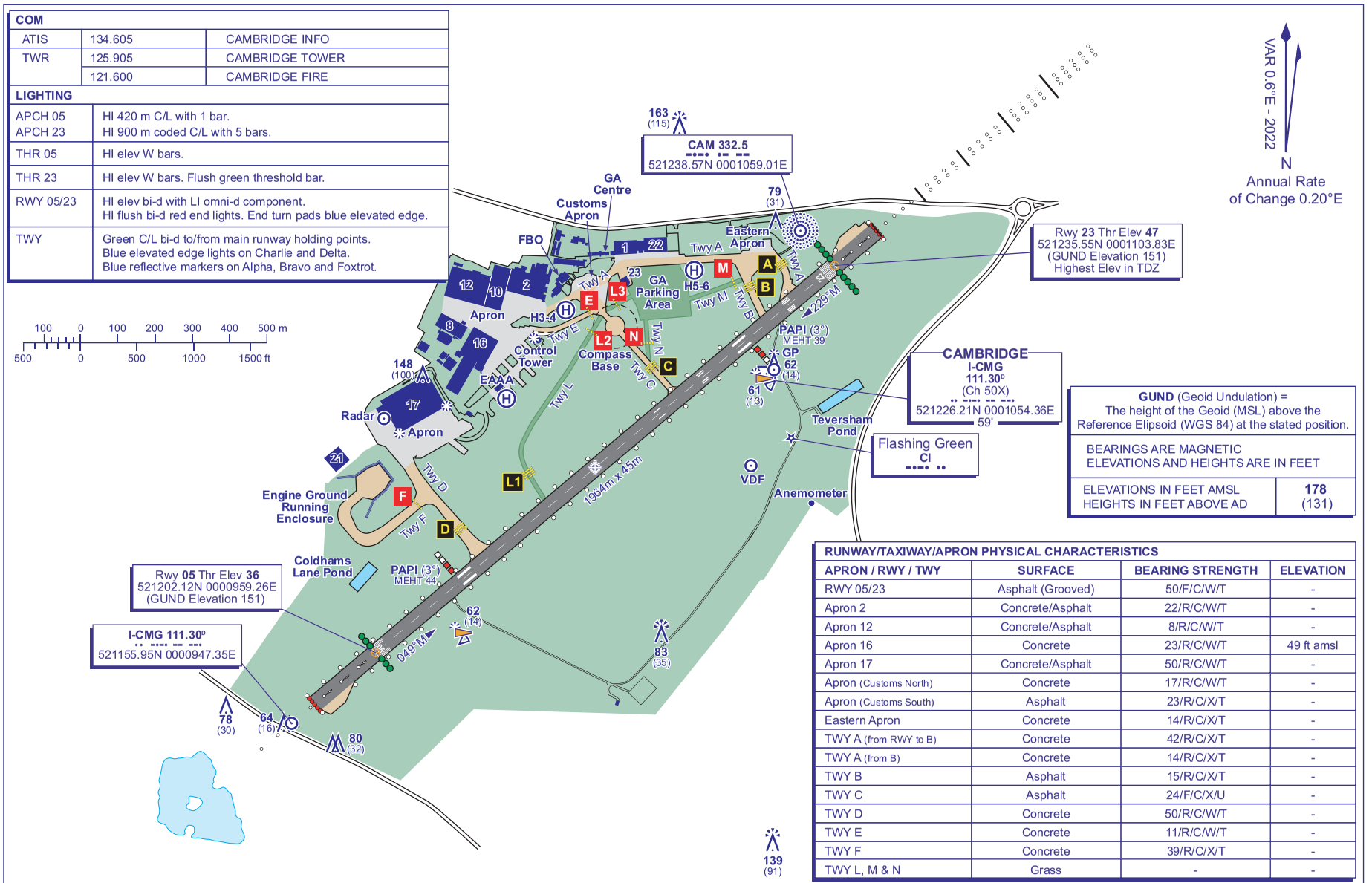
AD ELEV 48FT

CAMBRIDGE
EGSC

AERO INFO DATE 23 MAY 25

COM		
ATIS	134.605	CAMBRIDGE INFO
TWR	125.905	CAMBRIDGE TOWER
	121.600	CAMBRIDGE FIRE

LIGHTING	
APCH 05 APCH 23	HI 420 m C/L with 1 bar. HI 900 m coded C/L with 5 bars.
THR 05	HI elev W bars.
THR 23	HI elev W bars. Flush green threshold bar.
RWY 05/23	HI elev bi-d with LI omni-d component. HI flush bi-d red end lights. End turn pads blue elevated edge.
TWY	Green C/L bi-d to/from main runway holding points. Blue elevated edge lights on Charlie and Delta. Blue reflective markers on Alpha, Bravo and Foxtrot.



GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD — **178** (131)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
RWY 05/23	Asphalt (Grooved)	50/F/C/W/T	-
Apron 2	Concrete/Asphalt	22/R/C/W/T	-
Apron 12	Concrete/Asphalt	8/R/C/W/T	-
Apron 16	Concrete	23/R/C/W/T	49 ft amsl
Apron 17	Concrete/Asphalt	50/R/C/W/T	-
Apron (Customs North)	Concrete	17/R/C/W/T	-
Apron (Customs South)	Asphalt	23/R/C/X/T	-
Eastern Apron	Concrete	14/R/C/X/T	-
TWY A (from RWY to B)	Concrete	42/R/C/X/T	-
TWY A (from B)	Concrete	14/R/C/X/T	-
TWY B	Asphalt	15/R/C/X/T	-
TWY C	Asphalt	24/F/C/X/U	-
TWY D	Concrete	50/R/C/W/T	-
TWY E	Concrete	11/R/C/W/T	-
TWY F	Concrete	39/R/C/X/T	-
TWY L, M & N	Grass	-	-

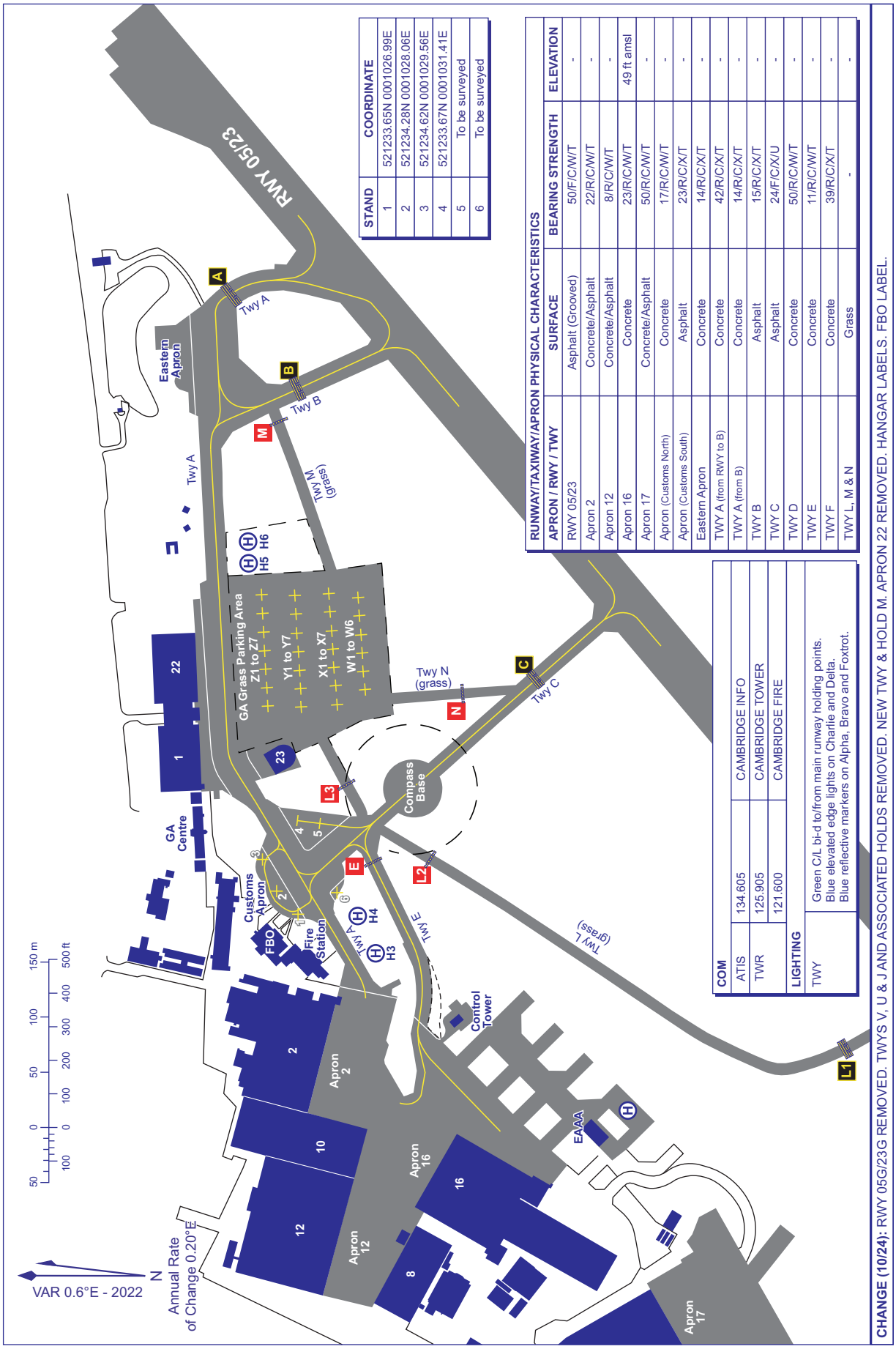
CHANGE (8/25): IRVR ADDED.

CAMBRIDGE EGSC

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 521218N 0001030E

AD ELEV 48FT



STAND	COORDINATE
1	521233.65N 0001026.99E
2	521234.28N 0001028.06E
3	521234.62N 0001029.56E
4	521233.67N 0001031.41E
5	To be surveyed
6	To be surveyed

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 05/23	Asphalt (Grooved)	50/F/C/W/T	-
Apron 2	Concrete/Asphalt	22/R/C/W/T	-
Apron 12	Concrete/Asphalt	8/R/C/W/T	-
Apron 16	Concrete	23/R/C/W/T	49 ft amsl
Apron 17	Concrete/Asphalt	50/R/C/W/T	-
Apron (Customs North)	Concrete	17/R/C/W/T	-
Apron (Customs South)	Asphalt	23/R/C/X/T	-
Eastern Apron	Concrete	14/R/C/X/T	-
TWY A (from RWY to B)	Concrete	42/R/C/X/T	-
TWY A (from B)	Concrete	14/R/C/X/T	-
TWY B	Asphalt	15/R/C/X/T	-
TWY C	Asphalt	24/F/C/X/U	-
TWY D	Concrete	50/R/C/W/T	-
TWY E	Concrete	11/R/C/W/T	-
TWY F	Concrete	39/R/C/X/T	-
TWY L, M & N	Grass	-	-

COM		
ATIS	134.605	CAMBRIDGE INFO
TWR	125.905	CAMBRIDGE TOWER
	121.600	CAMBRIDGE FIRE

LIGHTING	
TWY	Green C/L bi-d to/from main runway holding points. Blue elevated edge lights on Charlie and Delta. Blue reflective markers on Alpha, Bravo and Foxtrot.

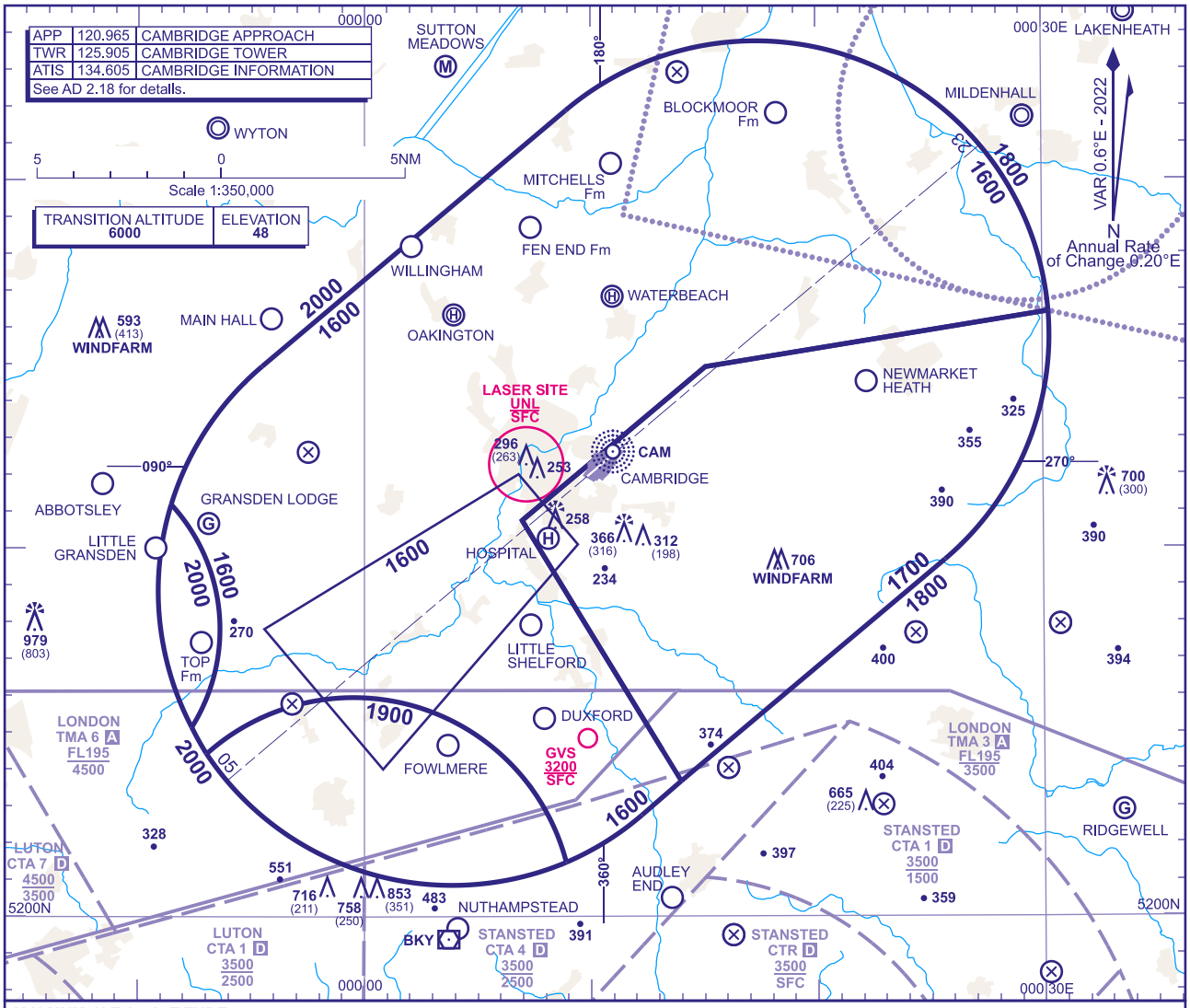
CHANGE (10/24): RWY 05G/23G REMOVED. TWYS V, U & J AND ASSOCIATED HOLDS REMOVED. NEW TWY & HOLD M. APRON 22 REMOVED. HANGAR LABELS. FBO LABEL.

AERO INFO DATE 30 JUL 24

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL **979**
ELEVATIONS IN FEET AGL (801)

CAMBRIDGE



MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:
a) **1600** in the sector defined by the lateral limits; 521457N 0000432W - 522155N 0000854E thence clockwise by an arc of a circle radius 8NM centred on 521548N 0001717E to 521625N 0003014E - 521456N 0001505E - 521046N 0000658E - 520341N 0001358E - 520245N 0001214E thence clockwise by an arc of a circle radius 8NM centred on 520852N 0000352E to 520130N 0000853E - thence anticlockwise by an arc of a circle radius 6NM centred on 515959N 0000029W - 520427N 0000659W thence clockwise by an arc of a circle radius 8NM centred on 520852N 0000352E - 520509N 0000737W thence anticlockwise by an arc of a circle radius 5NM centred on 520748N 0001430W - 521112N 0000833W thence clockwise by an arc of a circle radius 8NM centred on 520852N 0000352E - 521457N 0000432W;
b) **1900** in the sector defined by the lateral limits; 520427N 0000659W thence clockwise by an arc of a circle radius 6NM centred on 515959N 0000029W to 520130N 0000854E thence clockwise by an arc of a circle radius 8NM centred on 520852N 0000352E to 520427N 0000659W.
c) **2000** in the sector defined by the lateral limits; 521112N 0000833W thence clockwise by an arc of a circle radius 5NM centred on 520748N 0001430W to 520509N 0000737W thence clockwise by an arc of a circle radius 8NM centred on 520852N 0000352E to 521112N 0000833W.
d) **1700** in the sector defined by the lateral limits; 521046N 0000658E - 521456N 0001505E - 521625N 0003014E thence clockwise by an arc of a circle radius 8NM centred on 521548N 0001717E to 520941N 0002539E - 520341N 0001358E - 521046N 0000658E.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:
a) within 5NM of the aircraft, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher to **NDB(L) CAM**†.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) CAM**†.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of **NDB(L) CAM**.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches is cleared to intercept the final approach track.**

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 24 JAN 25

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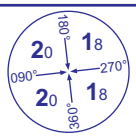
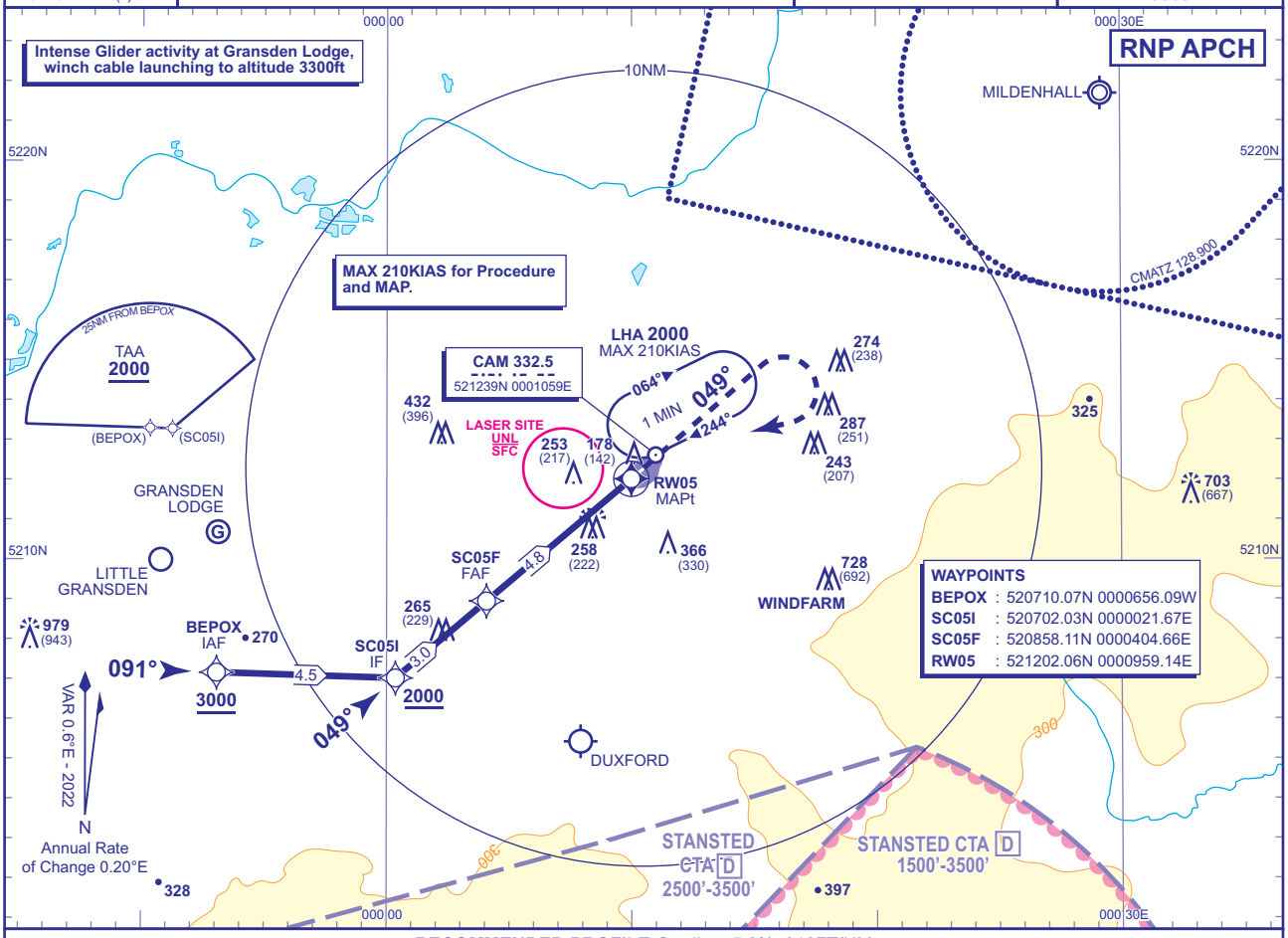
INSTRUMENT APPROACH CHART - ICAO

CAMBRIDGE
RNP
RWY 05
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) CAM

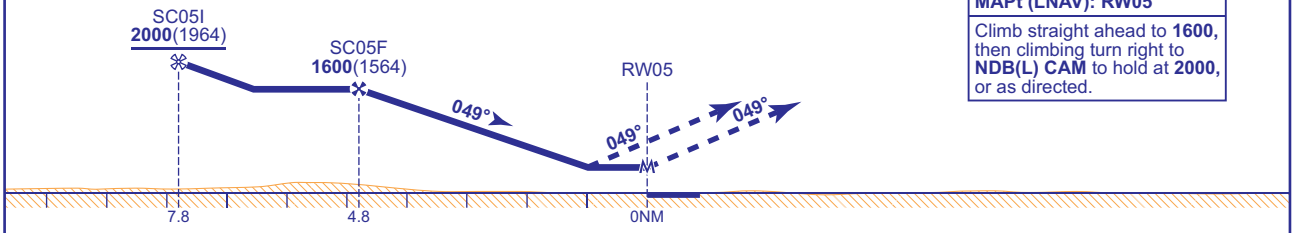
APP	120.965	CAMBRIDGE APPROACH	AD ELEVATION	47	MIN TEMP -15°C
TWR	125.905	CAMBRIDGE TOWER	THR ELEVATION	36	TRANSITION ALTITUDE 6000
ATIS	134.605	CAMBRIDGE INFORMATION	OBSTACLE ELEVATION 979 AMSL (943) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

NM to RW05	4	3	2
ALT(HGT)	**1360**(1324)	**1040**(1004)	**720**(684)

TCH 50



MAPt (LNAV): RW05
Climb straight ahead to **1600**, then climbing turn right to **NDB(L) CAM** to hold at **2000**, or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**660**(624)	**660**(624)	**660**(624)	**660**(624)
	LNAV	**660**(624)	**660**(624)	**660**(624)	**660**(624)
VM(C)OCA (OCH AAL)	Total Area	**660**(613)	**710**(663)	**810**(763)	**1050**(1003)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

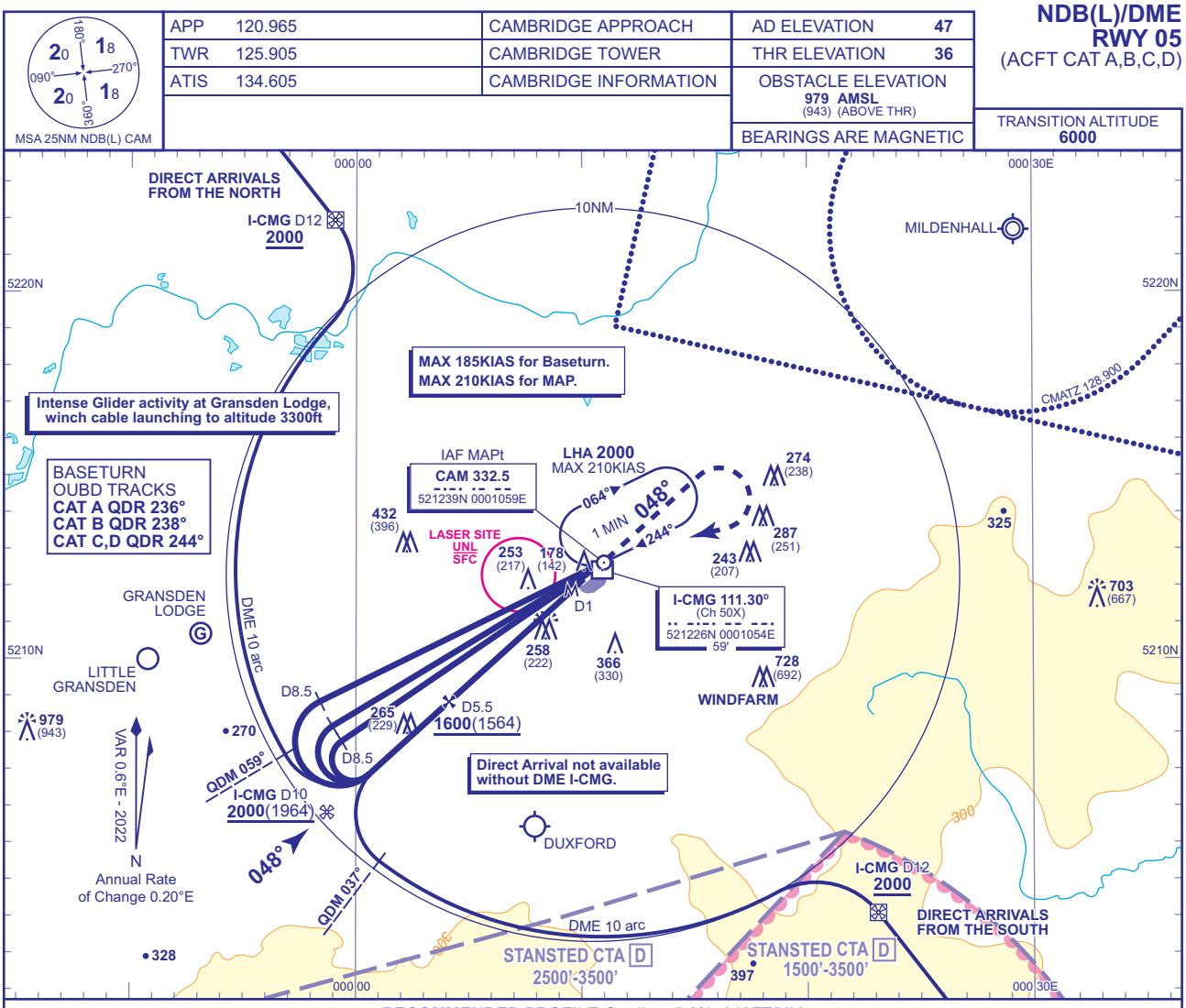
NOTE
1 Aircraft will normally be required to hold not lower than **3000**.
2 RNP procedure is subject to approval from Cambridge ATC.
3 Missed Approach Procedure uses conventional navigation aids and is not available without NDB(L) CAM.
4 Intense glider activity and winch launching can be expected at Gransden Lodge Glider Site seven days a week during daylight hours. Pilots should avoid overflying the site on approach to Cambridge.

CHANGE (10/24): RADAR FREQUENCY REMOVED.

AERO INFO DATE 24 JUL 24

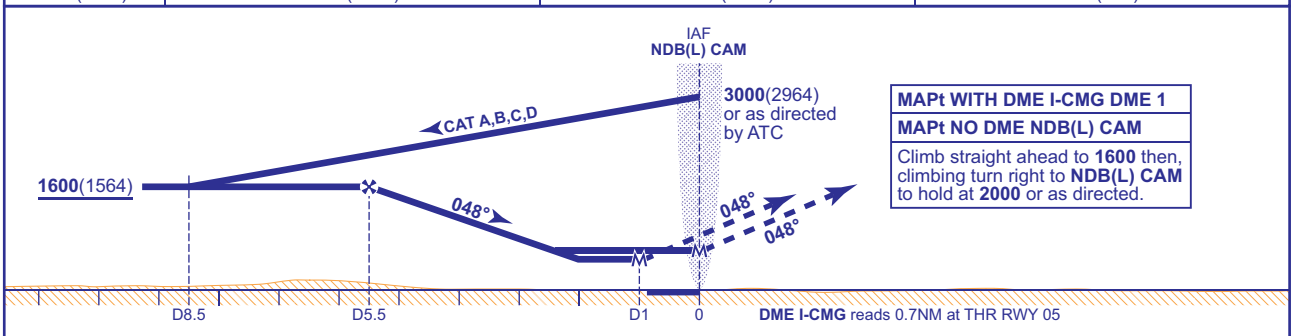
INSTRUMENT APPROACH CHART - ICAO

CAMBRIDGE NDB(L)/DME RWY 05
(ACFT CAT A,B,C,D)



RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM

DME I-CMG	5	4	3
ALT(HGT)	**1440**(1404)	**1130**(1094)	**810**(774)



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	WITH DME	**660**(624)	**660**(624)	**660**(624)	**660**(624)		FT/MIN	840	740	630	530	420
	NO DME	**710**(674)	**710**(674)	**710**(674)	**710**(674)							
VM(C)OCA (OCH AAL)	Total Area	**660**(613)	**710**(663)	**810**(763)	**1050**(1003)							

AIRCRAFT UNABLE TO RECEIVE DME I-CMG
As for main procedure except substitute timing on the outbound legs: 3MIN (CAT A,B); 2.5MIN (CAT C,D). When established on FAT descend to MDA.

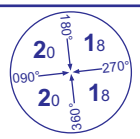
NOTES
1. Aircraft will normally be required to hold not lower than **3000**.
2. Direct arrivals are subject to approval from Cambridge ATC.
3. FAT is offset 1.5° from RWY C/L.
4. Intense glider activity and winch launching can be expected at Gransden Lodge Glider Site seven days a week during daylight hours. Pilots should avoid overflying the site on approach to Cambridge.

CHANGE (10/24): RADAR FREQUENCY REMOVED.

AERO INFO DATE 24 JUL 24 AD 2-EGSC-8-2

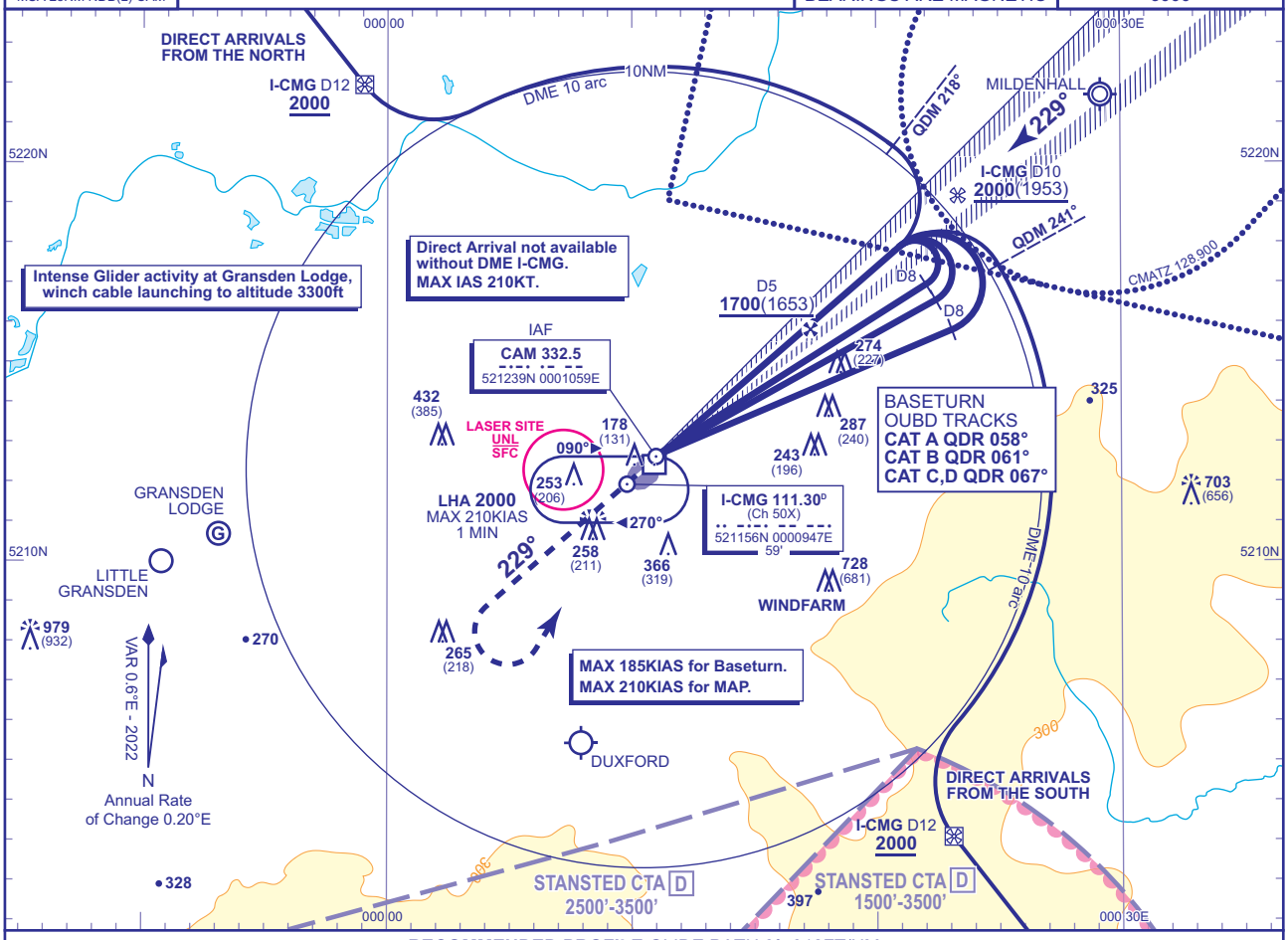
INSTRUMENT APPROACH CHART - ICAO

CAMBRIDGE
ILS/DME/NDB(L)
RWY 23
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) CAM

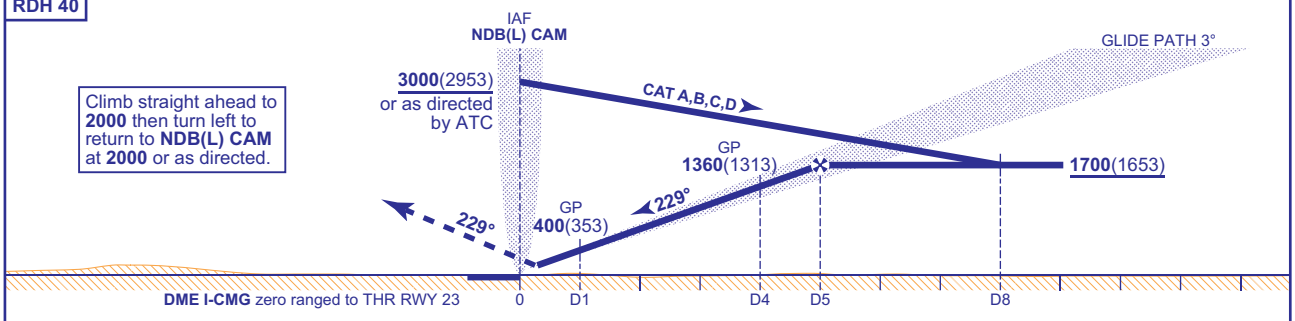
APP	120.965	CAMBRIDGE APPROACH	AD ELEVATION	47	
TWR	125.905	CAMBRIDGE TOWER	THR ELEVATION	47	
ATIS	134.605	CAMBRIDGE INFORMATION	OBSTACLE ELEVATION	979 AMSL (932) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-CMG	4	3	2	1
ALT(HGT)	**1360**(1313)	**1040**(993)	**720**(673)	**400**(353)

RDH 40



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**247**(200)	**247**(200)	**247**(200)	**256**(209)
VM(C)OCA (OCH AAL)	Total Area	**660**(613)	**710**(663)	**810**(763)	**1050**(1003)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-CMG
Advise ATC. Radar vectoring will be provided to the LOC, and a range check will be passed at 4NM before THR.

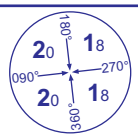
NOTES
1. Aircraft will normally be required to hold not lower than **3000**.
2. Direct arrivals are subject to approval from Cambridge ATC.
3. Intense glider activity and winch launching can be expected at Gransden Lodge Glider Site seven days a week during daylight hours. Pilots should avoid overflying the site on approach to Cambridge.

CHANGE (10/24): RADAR FREQUENCY REMOVED.

AERO INFO DATE 24 JUL 24
AD 2-EGSC-8-3

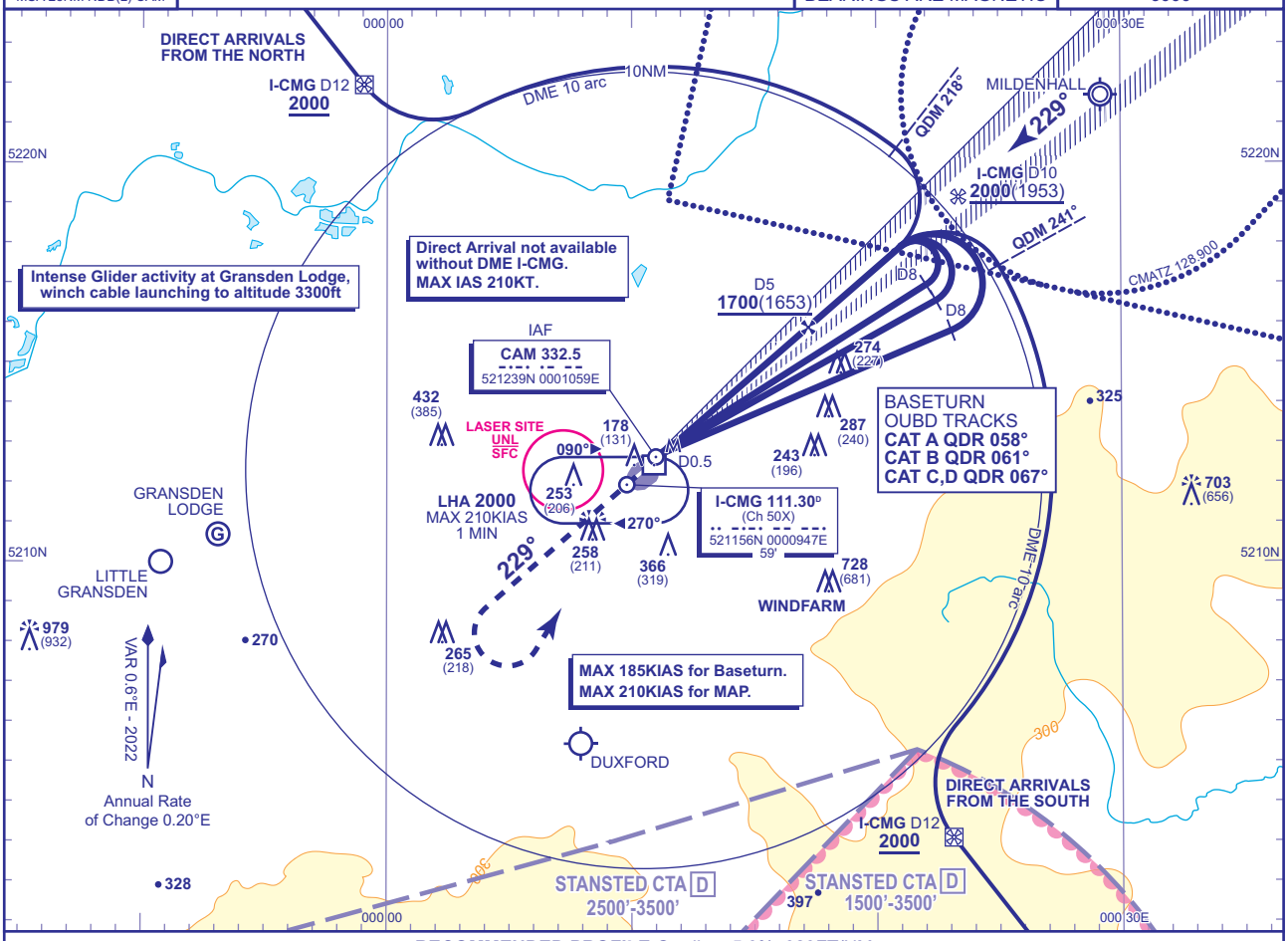
INSTRUMENT APPROACH CHART - ICAO

CAMBRIDGE LOC/DME/NDB(L) RWY 23
(ACFT CAT A,B,C,D)



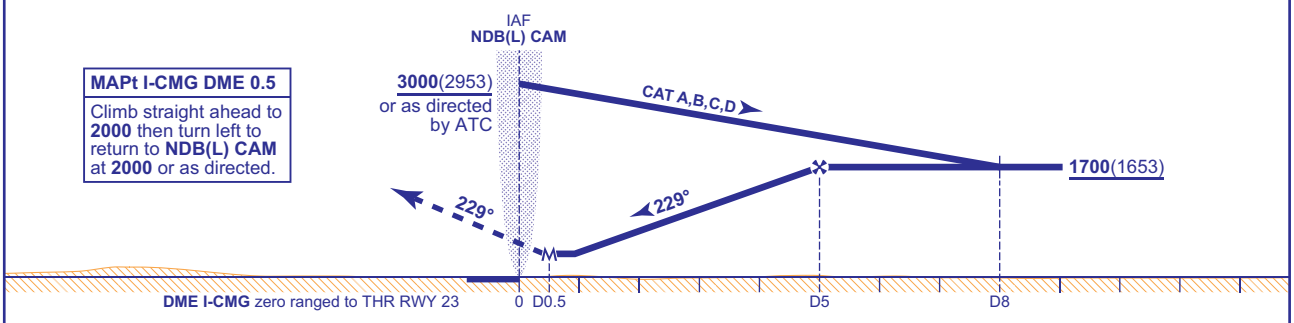
MSA 25NM NDB(L) CAM

APP	120.965	CAMBRIDGE APPROACH	AD ELEVATION	47	TRANSITION ALTITUDE 6000
TWR	125.905	CAMBRIDGE TOWER	THR ELEVATION	47	
ATIS	134.605	CAMBRIDGE INFORMATION	OBSTACLE ELEVATION 979 AMSL (932) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.3%, 323FT/NM

DME I-CMG	4	3	2	1
ALT(HGT)	**1380**(1333)	**1050**(1003)	**730**(683)	**410**(363)



MAPt I-CMG DME 0.5
Climb straight ahead to **2000** then turn left to return to **NDB(L) CAM** at **2000** or as directed.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**460**(413)	**460**(413)	**460**(413)	**460**(413)		FT/MIN	860	750	650	540	430
VM(C)OCA (OCH AAL)	Total Area	**660**(613)	**710**(663)	**810**(763)	**1050**(1003)							

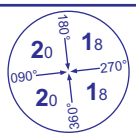
NOTES
1 Aircraft will normally be required to hold not lower than **3000**.
2 Direct arrivals are subject to approval from Cambridge ATC.
3 Intense glider activity and winch launching can be expected at Gransden Lodge Glider Site seven days a week during daylight hours. Pilots should avoid overflying the site on approach to Cambridge.

CHANGE (10/24): RADAR FREQUENCY REMOVED.

AERO INFO DATE 24 JUL 24 AD 2-EGSC-8-4

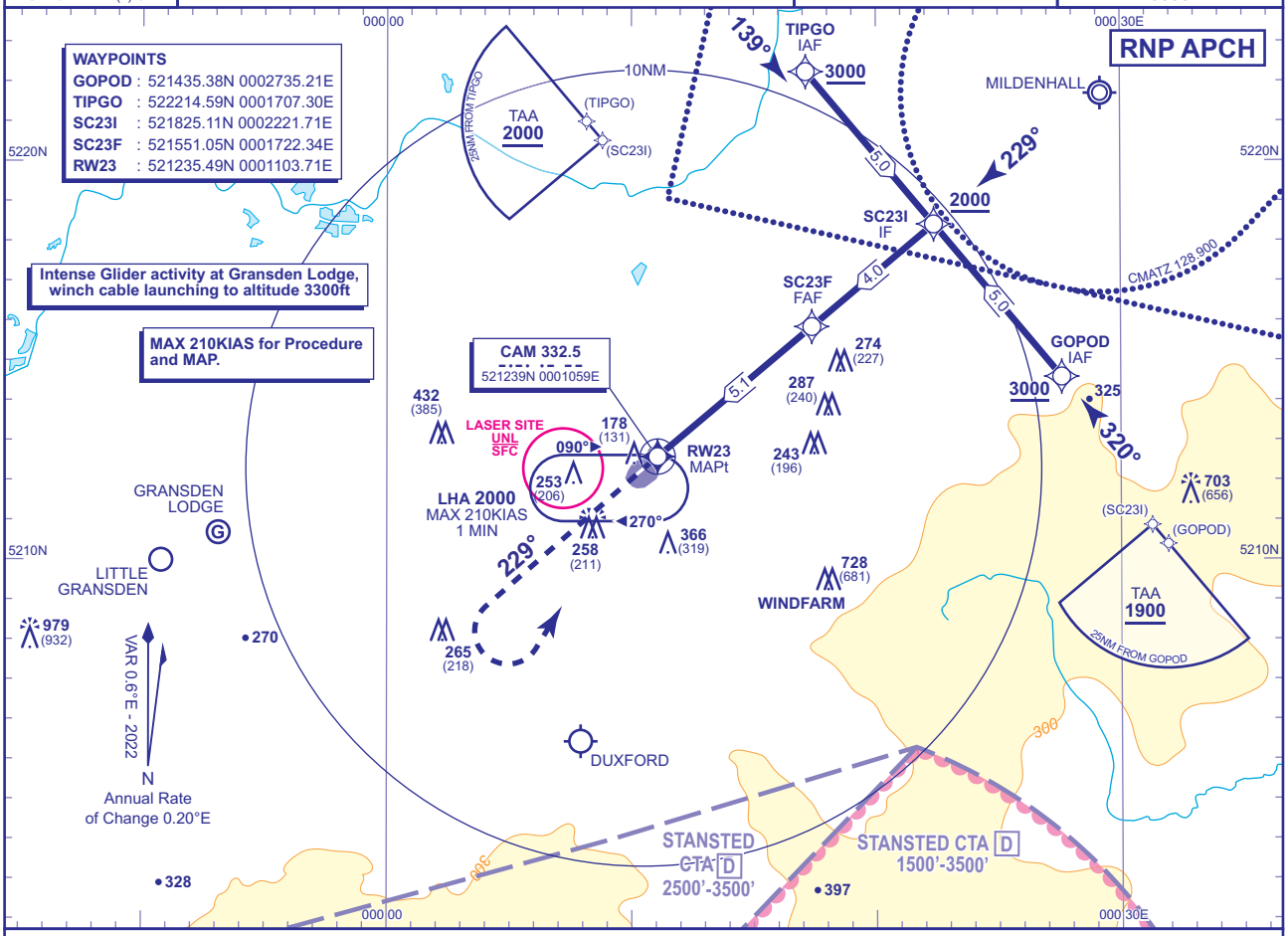
INSTRUMENT APPROACH CHART - ICAO

CAMBRIDGE
RNP
RWY 23
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) CAM

APP	120.965	CAMBRIDGE APPROACH	AD ELEVATION	47	MIN TEMP -15°C
TWR	125.905	CAMBRIDGE TOWER	THR ELEVATION	47	TRANSITION ALTITUDE 6000
ATIS	134.605	CAMBRIDGE INFORMATION	OBSTACLE ELEVATION 979 AMSL (932) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		



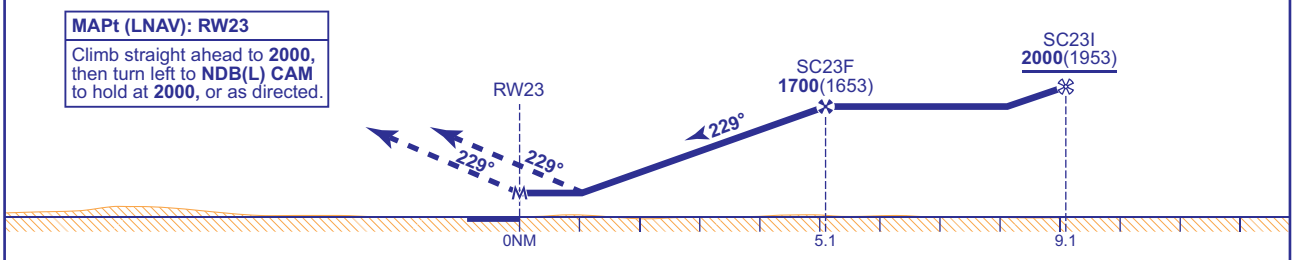
RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

NM to RW23	5	4	3	2	1
ALT(HGT)	**1680**(1633)	**1360**(1313)	**1040**(993)	**720**(673)	**400**(353)

TCH 40

MAPt (LNAV): RW23

Climb straight ahead to **2000**, then turn left to **NDB(L) CAM** to hold at **2000**, or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**460**(413)	**460**(413)	**460**(413)	**460**(413)
	LNAV	**460**(413)	**460**(413)	**460**(413)	**460**(413)
VM(C)OCA (OCH AAL)	Total Area	**660**(613)	**710**(663)	**810**(763)	**1050**(1003)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

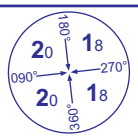
NOTE
1. Aircraft will normally be required to hold not lower than **3000**.
2. RNP Procedure is subject to approval from Cambridge ATC.
3. Missed Approach Procedure uses conventional navigation aids and is not available without NDB(L) CAM.
4. Intense glider activity and winch launching can be expected at Gransden Lodge Glider Site seven days a week during daylight hours. Pilots should avoid overflying the site on approach to Cambridge.

CHANGE (10/24): RADAR FREQUENCY REMOVED.

AERO INFO DATE 24 JUL 24

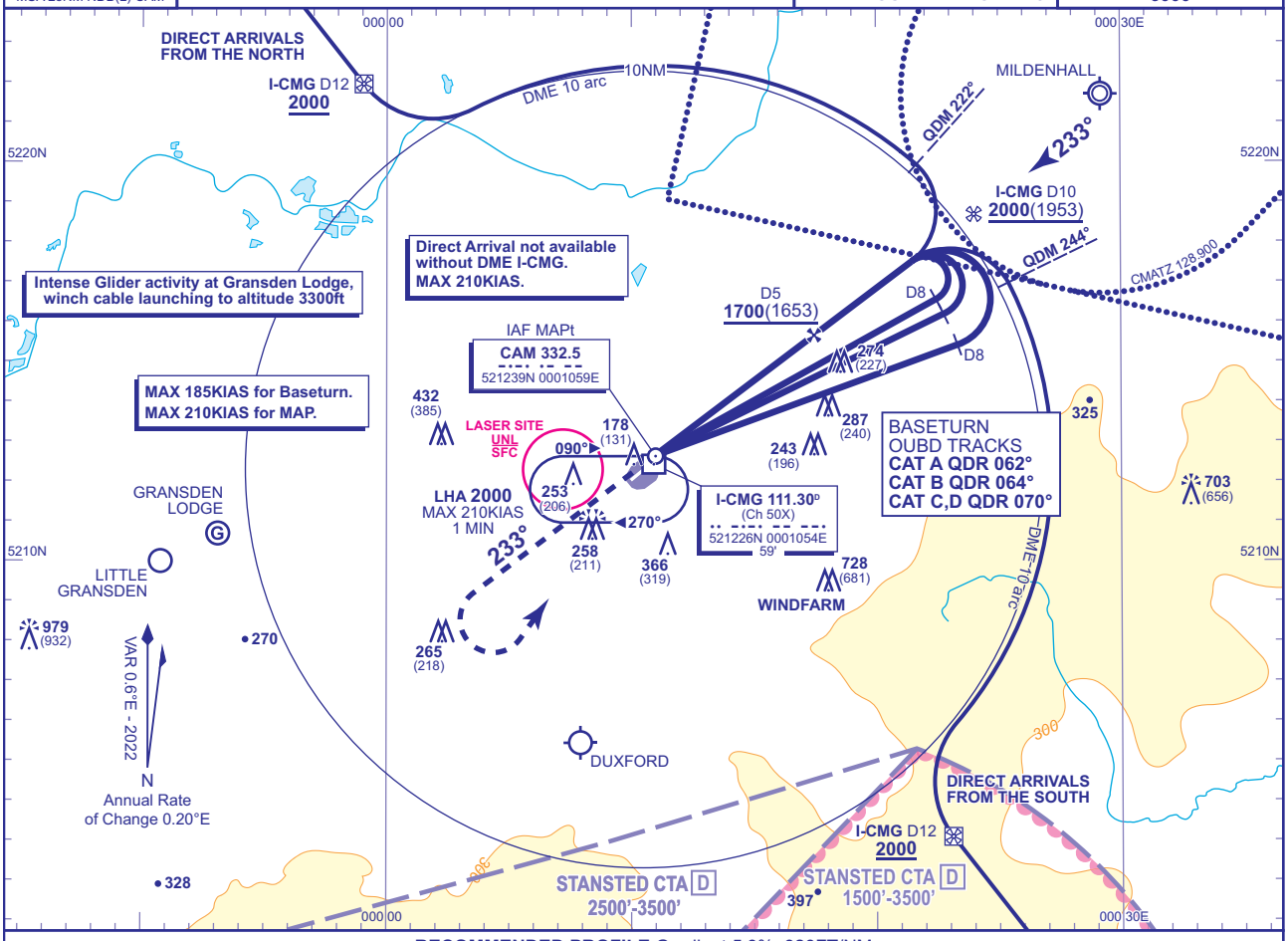
INSTRUMENT APPROACH CHART - ICAO

CAMBRIDGE NDB(L)/DME RWY 23
(ACFT CAT A,B,C,D)



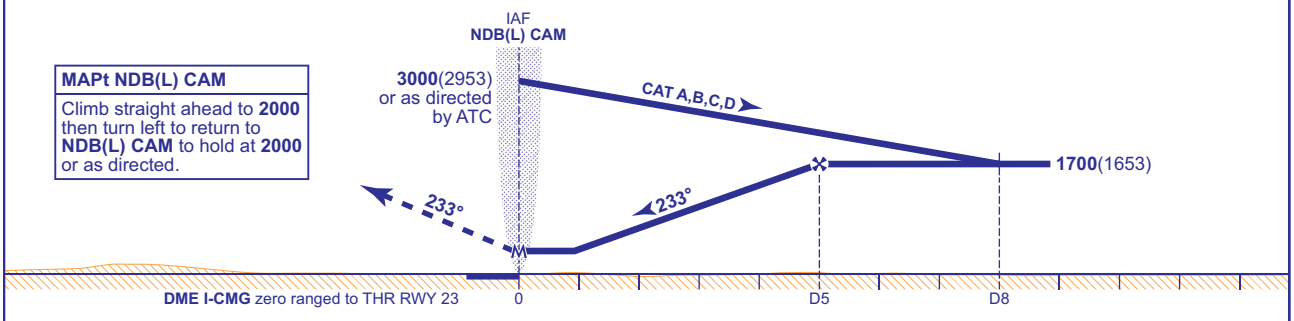
MSA 25NM NDB(L) CAM

APP	120.965	CAMBRIDGE APPROACH	AD ELEVATION	47	
TWR	125.905	CAMBRIDGE TOWER	THR ELEVATION	47	
ATIS	134.605	CAMBRIDGE INFORMATION	OBSTACLE ELEVATION	979 AMSL (932) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.3%, 323FT/NM

DME I-CMG	4	3	2
ALT(HGT)	**1380**(1333)	**1050**(1003)	**730**(683)



MAPt NDB(L) CAM
Climb straight ahead to **2000** then turn left to return to **NDB(L) CAM** to hold at **2000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**460**(413)	**460**(413)	**460**(413)	**460**(413)
	NO DME	**590**(543)	**590**(543)	**590**(543)	**590**(543)
VM(C)OCA (OCH AAL)	**Total Area**	**660**(613)	**710**(663)	**810**(763)	**1050**(1003)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	650	540	430

AIRCRAFT UNABLE TO RECEIVE DME I-CMG
Advise ATC. As for main procedure except substitute timing on the outbound legs: 2.5MIN (CAT A,B); 2MIN (CAT C,D). When established on FAT descend to MDA.

NOTES
1. Aircraft will normally be required to hold not lower than **3000**.
2. Direct arrivals are subject to approval from Cambridge ATC.
3. FAT is offset 3.5° from RWY C/L.
4. Intense glider activity and winch launching can be expected at Gransden Lodge Glider Site seven days a week during daylight hours. Pilots should avoid overflying the site on approach to Cambridge.

CHANGE (10/24): RADAR FREQUENCY REMOVED.

AERO INFO DATE 24 JUL 24 AD 2-EGSC-8-6

Instrument Approach Procedure Coding Tables

Cambridge RNP RWY 05 - Instrument Approach Procedure via BEPOX

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R05L	001	IF	BEPOX	N	-	-	3000	210	520710.07N 0000656.09W	IAF
R05L	002	TF	SC05I	N	091° (091.6°)	LEFT	2000	210	520702.03N 0000021.67E	IF / 7.8NM
R05L	003	TF	SC05F	N	049° (049.7°)	-	1600	-	520858.11N 0000404.66E	FAF / 4.8NM
R05L	004	TF	RW05	Y	049° (049.8°)	-	-	-	521202.06N 0000959.14E	MAPt
R05L	005	CA	-	-	049° (049.8°)	-	1600	210	-	At 1000 revert to conventional navigation

CHANGE (8/23): PAGE RENUMBERED.
AERO INFO DATE 16 MAY 23

Instrument Approach Procedure Coding Tables

Cambridge RNP RWY 23 - Instrument Approach Procedure via GOPOD

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23L	001	IF	GOPOD	N	-	-	3000	210	521435.38N 0002735.21E	IAF
R23L	002	TF	SC23I	N	320° (320.1°)	LEFT	2000	210	521825.11N 0002221.71E	IF / 9.1NM
R23L	003	TF	SC23F	N	229° (230.0°)	-	1700	-	521551.05N 0001722.34E	FAF / 5.1NM
R23L	004	TF	RW23	Y	229° (229.9°)	-	-	-	521235.49N 0001103.71E	MAPt
R23L	005	CA	-	-	229° (229.9°)	-	2000	210	-	At 1000 revert to conventional navigation

Cambridge RNP RWY 23 - Instrument Approach Procedure via TIPGO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23R	001	IF	TIPGO	N	-	-	3000	210	522214.59N 0001707.30E	IAF
R23R	002	TF	SC23I	N	139° (139.9°)	RIGHT	2000	210	521825.11N 0002221.71E	IF / 9.1NM
R23R	003	TF	SC23F	N	229° (230.0°)	-	1700	-	521551.05N 0001722.34E	FAF / 5.1NM
R23R	004	TF	RW23	Y	229° (229.9°)	-	-	-	521235.49N 0001103.71E	MAPt
R23R	005	CA	-	-	229° (229.9°)	-	2000	210	-	At 1000 revert to conventional navigation

CHANGE (8/23): PAGE RENUMBERED.
AERO INFO DATE 16 MAY 23

EGEC — CAMPBELTOWN

EGEC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEC — CAMPBELTOWN

EGEC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 552615N Long: 0054117W Mid point of Runway 11/29.
2	Direction and distance from city	3 NM W of Campbeltown.
3	Elevation / Reference temperature / Mean Low Temperature	42 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	182 FT
5	Magnetic Variation / Annual Change	2.07°W (2022) / 0.22°E
6	AD Administration Address Telephone Telefax	HIAL Campbeltown Aerodrome, Campbeltown, Argyll, PA28 6NU. 01586-553797 01586-553338 (AFS) 01586-552620
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGEC AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0820-1740 (0720-1640); Sun (May-Sep) 1650-1800 (1550-1700); and by arrangement with AD operator (HIAL).
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	Mon-Fri 0820-1740 (0720-1640); Sun (May-Sep) 1650-1800 (1550-1700). See also AD 2.18.
8	Fuelling	
9	Handling	By arrangement with HIAL.
10	Security	On request.
11	De-icing	
12	Remarks	Prior Permission Required at this aerodrome. Arrival/Departure times may be allocated.

EGEC AD 2.4 HANDLING SERVICES AND FACILITIES

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EGEC AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	
3	Transportation	
4	Medical facilities	Limited.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGEC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission. RFF Category 4 available by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited.
4	Remarks	

EGEC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing. Runway 11/29 surfaces de-iced/anti-iced with KAC/EG and/or NAAC.
2	Clearance priorities	Runways, Taxiway, Apron, Airport Domestic Area.
3	Remarks	Latest Information Contact, Tel: 01586-553797

EGEC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGEC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 552603.90N 0054025.49W (LGTD); 552616.80N 0054109.28W (LGTD).

EGEC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEC1974) 11/APPROACH 29/ TAKE-OFF	ANEMOMETER	552630.07N 0054208.72W	67 FT	34 FT	Yes Red	
(EGEC1106) 29/APPROACH 11/ TAKE-OFF	MOBILE OBST	552603.99N 0053942.50W	61 FT	13 FT	No	
(EGEC1069) 29/APPROACH 11/ TAKE-OFF	FENCE	552603.66N 0053943.94W	53 FT	5 FT	No	
(EGEC2595) 29/APPROACH 11/ TAKE-OFF	BUILDING	552603.03N 0053939.30W	71 FT	25 FT	No	
(EGEC1107) 29/APPROACH 11/ TAKE-OFF	MOBILE OBST	552602.71N 0053943.16W	58 FT	13 FT	No	
(EGEC1049) 29/APPROACH 11/ TAKE-OFF	POWER POLE	552601.66N 0053939.05W	73 FT	29 FT	No	
(EGEC1070) 29/APPROACH 11/ TAKE-OFF	FENCE	552601.52N 0053945.04W	51 FT	8 FT	No	
(EGEC1108) 29/APPROACH 11/ TAKE-OFF	MOBILE OBST	552601.28N 0053943.89W	55 FT	13 FT	No	
← (EGEC1109) 29/APPROACH 11/ TAKE-OFF	MOBILE OBST	552600.23N 0053944.44W	54 FT	13 FT	No	
(EGEC1094) 29/APPROACH 11/ TAKE-OFF	POWER POLE	552551.03N 0053740.94W	202 FT	27 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEC2413) 29/APPROACH 11/ TAKE-OFF	DME	552548.08N 0053901.49W	122 FT	30 FT	No	
(EGEC1093) 29/APPROACH 11/ TAKE-OFF	POWER POLE	552547.09N 0053734.04W	209 FT	30 FT	No	
(EGEC2410) 29/APPROACH 11/ TAKE-OFF	DME MONITOR	552545.60N 0053853.05W	134 FT	37 FT	No	
(EGEC1092) 29/APPROACH 11/ TAKE-OFF	POWER POLE	552544.94N 0053730.32W	221 FT	28 FT	No	
(EGEC2684) 29/APPROACH 11/ TAKE-OFF	WIND TURBINE	552445.15N 0053325.30W	554 FT	134 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEC1118)	MAST	553144.88N 0053911.95W	1047 FT	89 FT	No	
(EGEC2433)	MAST	552959.76N 0053948.96W	1004 FT	325 FT	No	
(EGEC2116)	WIND TURBINE	552953.11N 0054035.05W	858 FT	243 FT	Yes Red	
(EGEC2121)	WIND TURBINE	552949.88N 0054020.94W	868 FT	244 FT	Yes Red	
(EGEC2636)	TREE	552819.58N 0053822.13W	583 FT	39 FT	No	
(EGEC2634)	TREE	552816.38N 0053811.62W	578 FT	57 FT	No	
(EGEC2629)	CAIRN	552750.54N 0053926.97W	707 FT	6 FT	No	
(EGEC1384)	POWER POLE	552736.37N 0054017.66W	313 FT	27 FT	No	
(EGEC1385)	CAIRN	552735.30N 0054019.77W	280 FT	8 FT	No	
(EGEC2630)	TREE	552700.78N 0053816.63W	454 FT	52 FT	No	
(EGEC1461)	POWER POLE	552458.21N 0053811.50W	207 FT	27 FT	No	
(EGEC1086)	POWER POLE	552456.96N 0053801.74W	275 FT	34 FT	No	
(EGEC1463)	POWER POLE	552455.48N 0053803.64W	269 FT	31 FT	No	
(EGEC2643)	MAST	552449.72N 0053726.73W	419 FT	146 FT	No	
(EGEC2684) 29/APPROACH 11/ TAKE-OFF	WIND TURBINE	552445.15N 0053325.30W	554 FT	134 FT	No	
(EGEC1326)	POWER POLE	552444.17N 0054434.38W	380 FT	34 FT	No	
(EGEC1323)	POWER POLE	552440.44N 0054446.50W	387 FT	24 FT	No	
(EGEC1075)	MAST	552419.73N 0054446.07W	725 FT	131 FT	No	
(EGEC2432)	WIND TURBINE	552342.48N 0053243.89W	570 FT	166 FT	No	
(EGEC2185)	BUILDING	552216.32N 0053157.57W	719 FT	43 FT	No	
(EGEC2209)	MAST	552216.08N 0053159.40W	791 FT	102 FT	No	

EGEC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 8 hours.
4	Trend forecast Interval of issuance	30 minutes.
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	Charts abbreviated plain language. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	Metforms 214 and 215.
8	Supplementary equipment available for providing information	Fax. Internet.
9	ATS units provided with information	CAMPBELTOWN
10	Additional information (limitation of service, etc.)	During airport opening hours only.

EGEC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
11	106.07°	1412 x 30 M	RWY surface: Asphalt, Grooved PCN 21/R/C/W/T	552616.99N 0054126.75W 182.3 FT	THR 30.2 FT TDZ 30.3 FT	
29	286.09°	1412 x 30 M	RWY surface: Asphalt, Grooved PCN 21/R/C/W/T	552604.35N 0054009.60W 182.2 FT	THR 38.5 FT TDZ 38.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1532 x 280 M				RWY 11
		1532 x 280 M				RWY 29

EGEC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
11	1412 M	1412 M	1412 M	1412 M	
29	1412 M	1412 M	1412 M	1412 M	

EGEC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
11		Green Light intensity low	APAPI Left/3°			60 M spacing bi-directional with omni-directional component. White Light intensity low	Red Light intensity low		
29		Green Light intensity low	APAPI Left/3.5°			60 M spacing bi-directional with omni-directional component. White Light intensity low	Red Light intensity low		

EGEC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 552600.90N 0054011.31W (LGTD) - 552630.07N 0054208.72W (LGTD) - 552618.41N 0054108.47W.
3	TWY edge and centre line lighting	EDGE: Taxiway A blue edge.
4	Secondary power supply/switch-over time	
5	Remarks	Obstacle light on VCR.

EGEC AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 552611.77N 0053948.08W, 182.2 FT
2	TLOF and/or FATO elevation	TLOF: 50.9 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGEC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CAMPBELTOWN ATZ A circle, 2 NM radius, centred at 552615N 0054117W on longest notified runway (11/ 29)	Upper limit: 2000 FT AGL Lower limit: SFC	G	CAMPBELTOWN INFORMATION English	3000 FT		

EGEC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	CAMPBELTOWN INFORMATION	125.905 DOC 30 NM/9,500 FT.			Mon-Fri 0820-1740 (0720-1640); Sun (May-Sep) 1650-1800 (1550-1700).	ATZ hours coincident with AFIS hours. AFIS also available by arrangement with AD operator (HIAL).

EGEC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	MAC	107X 116.000 MHz	H24	552548.08N 0053901.49W	122 FT	No associated En-route VOR. DME DOC: 150 NM/50000 FT (200 NM/50000 FT in Sector R227°-347°). Due to terrain, coverage at low level is reduced in Sectors R122°-162°, R207°-237° and R347°-082°.
NDB 1.09°W (2027)	CBL	380.000 kHz	Mon-Fri 0820-1740 (0720-1640); Sun (May-Sep) 1650-1800 (1550-1700).	552608.28N 0054117.05W		On AD. Range 15 NM. Normally radiates H24.

EGEC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Not available to aircraft unable to communicate by radio.
b) Use of Campbeltown Aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.
c) Use of RNP procedures at this aerodrome restricted to Highlands and Islands Airports Ltd - Approved Operators only.
d) Use of this procedure is strictly PPR from the aerodrome operator.
e) Prior to commencing the procedure, pilots are to broadcast on AFIS 125.905 MHz with flight details and intentions.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) No ground signals.
b) Bird activity may be seasonally high. From October until March, large flocks of geese are prevalent in the vicinity of the aerodrome, especially Runway 29 approach.
c) Deer activity may take place on the aerodrome, pilots will be advised of any hazard.
d) Perimeter fence obstruction at western end of Runway.
e) Pilots are reminded of the close proximity of disused parallel taxiway to the south of Runway 11/29, which is outside of the airport boundary fence and not available for landing/taxiing purposes.
f) Traffic carrying out RNP approaches to Runway 30 at Islay will pass approximately 2 NM North of Campbeltown RNP 11 Hold. Islay Airport is situated approximately 24 NM northwest of Campbeltown. Departures/arrivals may trigger TCAS warnings due to the close proximity of RNP and NDB/DME approaches. Pilots are reminded that Instrument Approach Procedures at Campbeltown are restricted to Highlands and Islands Airports Ltd - Approved Operators only.

g) Aircraft may be backtracking or taxiing the runway in use, after landing roll or for take-off.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Runway departure restriction for aircraft requiring the use of a licensed aerodrome:

i. **Runway 11/29:** Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 400 M or less are not permitted.

7 TRAINING

Not applicable

EGEC AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGEC AD 2.22 FLIGHT PROCEDURES

1 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGEC AD 2.23 ADDITIONAL INFORMATION

Pilots are advised that they are responsible for their passengers and are to escort their passengers from the apron to the terminal building.

EGEC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEC-2-1
INSTRUMENT APPROACH CHART RNP RWY 11 - ICAO
AD 2.EGEC-8-1
INSTRUMENT APPROACH CHART RNP RWY 29 - ICAO
AD 2.EGEC-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 11
AD 2.EGEC-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 29
AD 2.EGEC-8-4

EGEC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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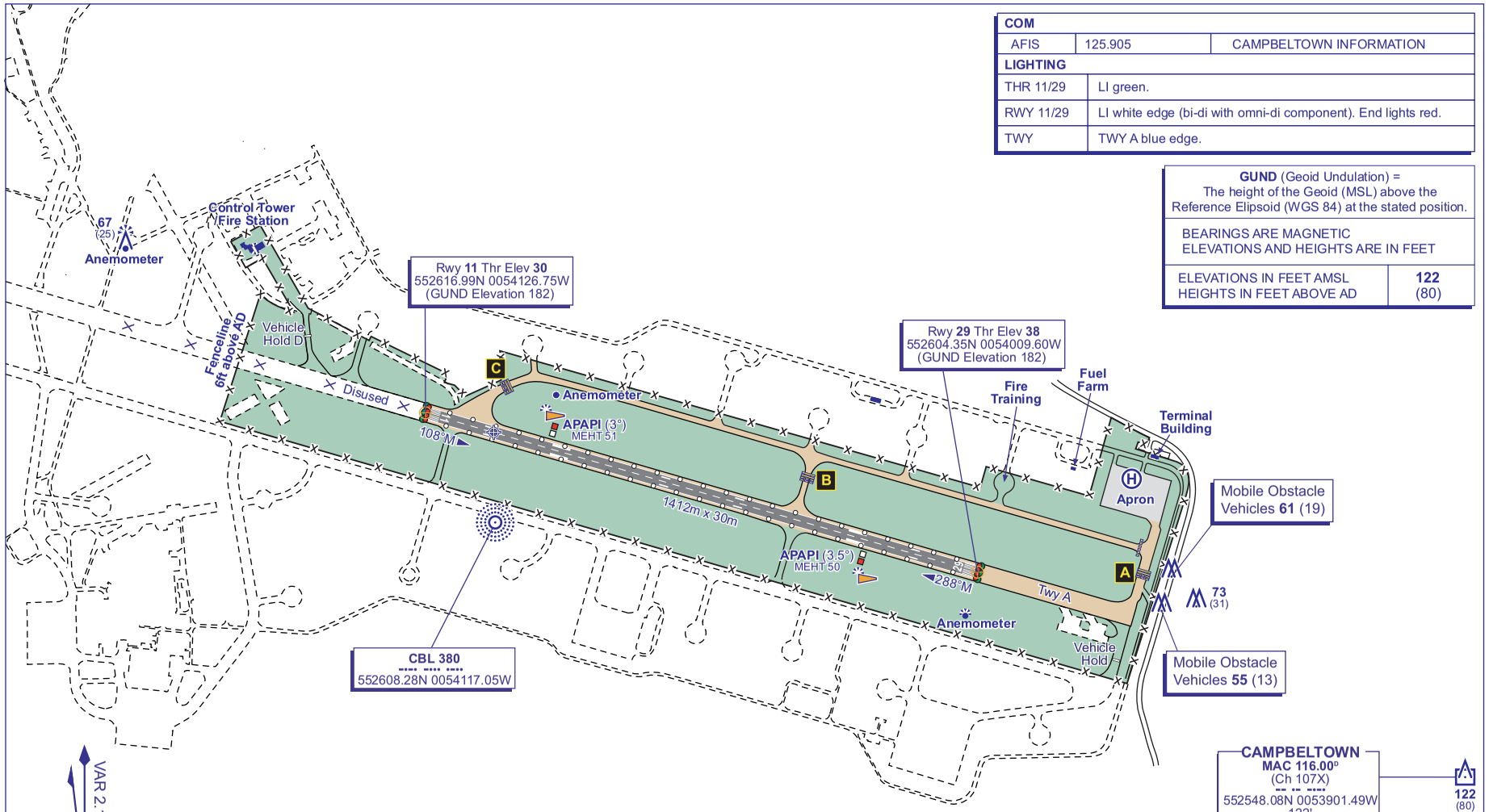
AERODROME CHART - ICAO

ARP 552615N 0054117W

AD ELEV 42FT

CAMPBELTOWN
EGEC

AERO INFO DATE 12 MAY 25



COM		
AFIS	125.905	CAMPBELTOWN INFORMATION
LIGHTING		
THR 11/29	LI green.	
RWY 11/29	LI white edge (bi-di with omni-di component). End lights red.	
TWY	TWY A blue edge.	

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**122** (80)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 11/29	Grooved Asphalt	21/R/C/W/T
All Aprons	Asphalt	-
All Taxiways	Asphalt	-

CHANGE (8/25): OBSTACLE.

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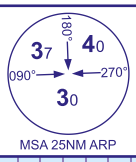
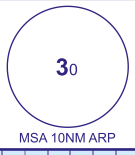
INSTRUMENT APPROACH CHART - ICAO

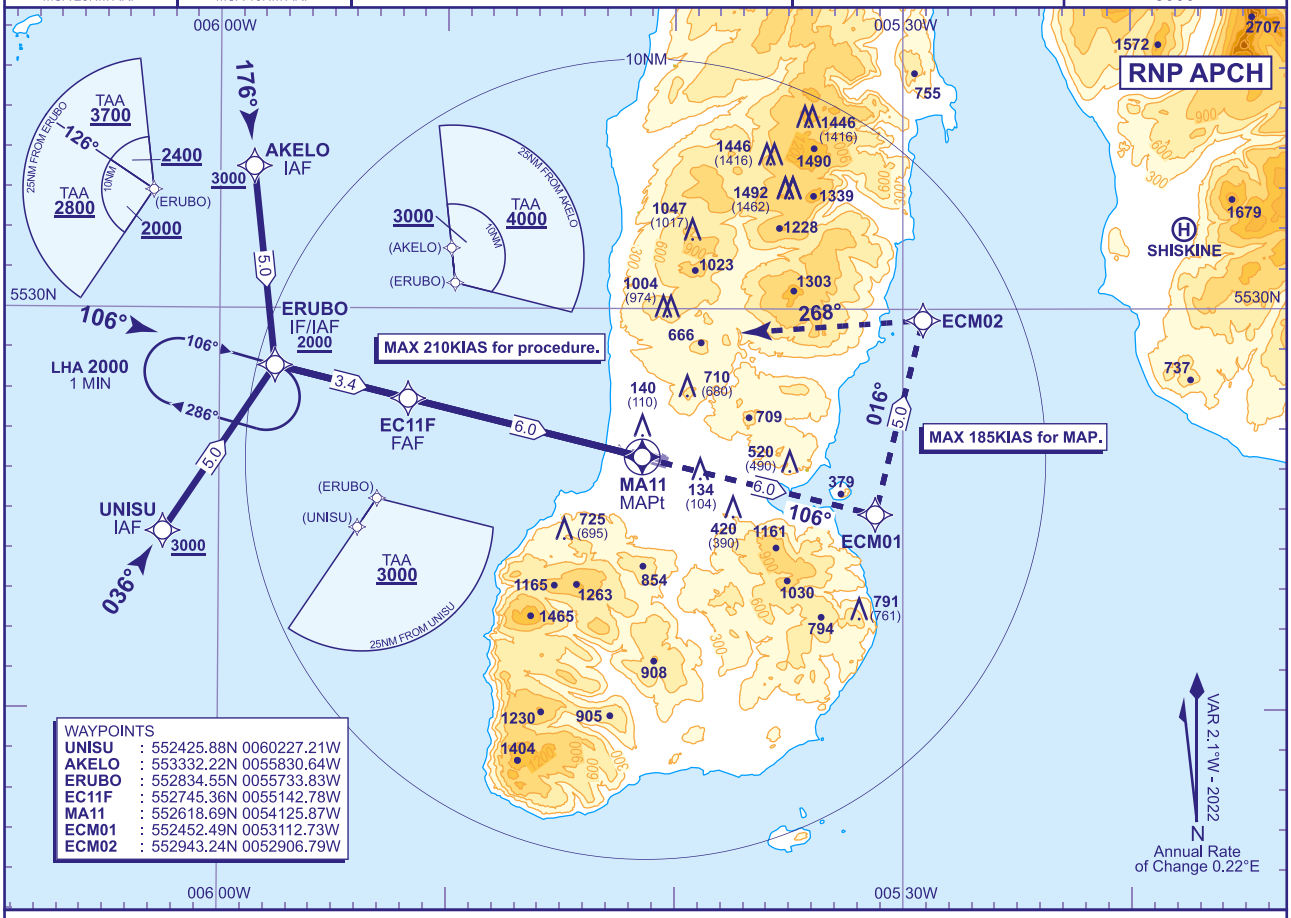
CAMPBELTOWN
RNP
RWY 11
(ACFT CAT A,B,C,D)





AFIS 125.905	CAMPBELTOWN INFORMATION	AD ELEVATION 42
		THR ELEVATION 30
		OBSTACLE ELEVATION 1492 AMSL (1462) (ABOVE THR)
		BEARINGS ARE MAGNETIC

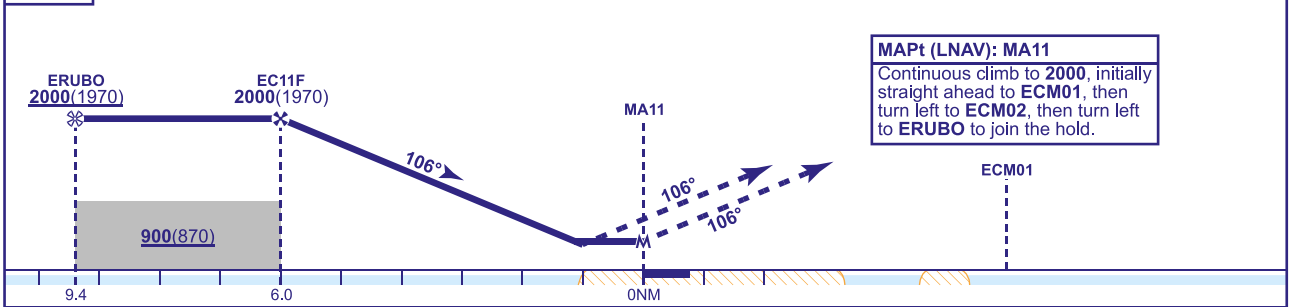
TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

NM to MA11	5	4	3	2	1
ALT(HGT)	**1690**(1660)	**1370**(1340)	**1040**(1010)	**720**(690)	**400**(370)

TCH 50



MAPt (LNAV): MA11
Continuous climb to **2000**, initially straight ahead to **ECM01**, then turn left to **ECM02**, then turn left to **ERUBO** to join the hold.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV 2.5% MAP	**870**(840)	**870**(840)	**870**(840)	**870**(840)		FT/MIN	850	740	640	530	420
	LNAV 5.0% MAP	**500**(470)	**500**(470)	**500**(470)	**500**(470)							
VM(C)OCA (OCH AAL)	Total Area	N/A	N/A	N/A	N/A							
	North of RWY 11/29	**890**(848)	**1010**(968)	**1550**(1508)	**1750**(1708)							

NOTES
1 FAT is offset 2.25° from the RWY C/L.
2 Missed approach climb gradient 5% required up to **1200**.
3 Use of this procedure is strictly PPR from the aerodrome operator.
4 Prior to commencing the procedure, pilots are to broadcast on AFIS with flight details and intentions.

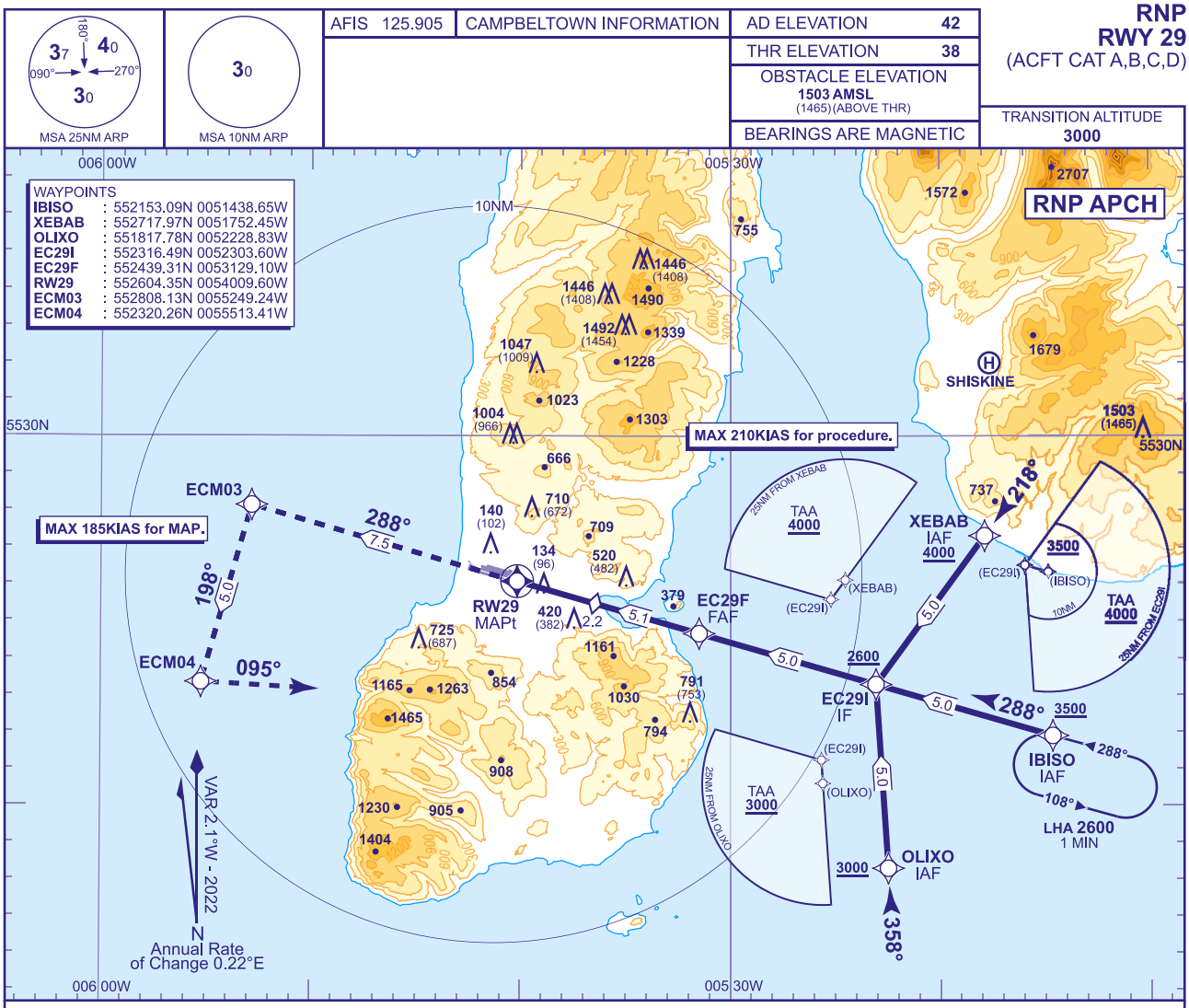
CHANGE (1/25): ERUBO TAA SECTOR 10NM ADDED.

AERO INFO DATE 05 NOV 24

AD 2-EGEC-8-1

INSTRUMENT APPROACH CHART - ICAO

CAMPBELTOWN
RNP
RWY 29
(ACFT CAT A,B,C,D)



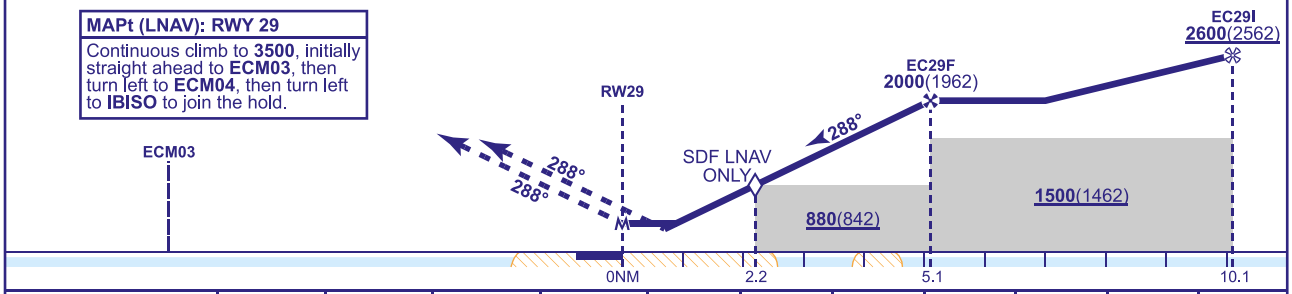
RECOMMENDED PROFILE Gradient 6.12%, 370FT/NM

NM to RW29	5	4	3	2.2 (**SDF**)	2	1
ALT(HGT)	**1950**(1912)	**1580**(1542)	**1200**(1162)	**880**(842)	**830**(792)	**460**(422)

TCH 50

MAPt (LNAV): RWY 29

Continuous climb to **3500**, initially straight ahead to **ECM03**, then turn left to **ECM04**, then turn left to **IBISO** to join the hold.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV	**630**(592)	**630**(592)	**630**(592)	**630**(592)		FT/MIN	990	870	740	620	500
VM(C)OCA (OCH AAL)	Total Area	N/A	N/A	N/A	N/A							
	North of RWY 11/29	**890**(848)	**1010**(968)	**1550**(1508)	**1750**(1708)							

NOTES 1 Use of this procedure is strictly PPR from the aerodrome operator.
2 Prior to commencing the procedure, pilots are to broadcast on AFIS with flight details and intentions.

CHANGE (10/24): SPECIFICATION REVISED.

AERO INFO DATE 11 JUL 24

Instrument Approach Procedure Coding Tables

CAMPBELTOWN RNP RWY 11 - Instrument Approach Procedure via UNISU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R11R	001	IF	UNISU	N	-	-	3000	-	552425.88N 0060227.21W	IAF
R11R	002	TF	ERUBO	N	036° (033.8°)	RIGHT	2000	-210	552834.55N 0055733.83W	IF / 9.46NM
R11R	003	TF	EC11F	N	106° (103.8°)	-	2000	-	552745.36N 0055142.78W	FAF / 6NM
R11R	004	TF	MA11	Y	106° (103.8°)	-	-	-	552618.69N 0054125.87W	MAPt
R11R	005	CF	ECM01	N	106° (103.8°)	LEFT	-	-185	552452.49N 0053112.73W	-
R11R	006	TF	ECM02	N	016° (013.8°)	LEFT	-	-185	552943.24N 0052906.79W	-
R11R	007	TF	ERUBO	N	268° (266.1°)	-	2000	-	552834.55N 0055733.83W	HOLD

CAMPBELTOWN RNP RWY 11 - Instrument Approach Procedure via ERUBO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R11C	001	IF	ERUBO	N	-	-	2000	-210	552834.55N 0055733.83W	IF / 9.46NM
R11C	002	TF	EC11F	N	106° (103.8°)	-	2000	-	552745.36N 0055142.78W	FAF / 6NM
R11C	003	TF	MA11	Y	106° (103.8°)	-	-	-	552618.69N 0054125.87W	MAPt
R11C	004	CF	ECM01	N	106° (103.8°)	LEFT	-	-185	552452.49N 0053112.73W	-
R11C	005	TF	ECM02	N	016° (013.8°)	LEFT	-	-185	552943.24N 0052906.79W	-
R11C	006	TF	ERUBO	N	268° (266.1°)	-	2000	-	552834.55N 0055733.83W	HOLD

CAMPBELTOWN RNP RWY 11 - Instrument Approach Procedure via AKELO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R11L	001	IF	AKELO	N	-	-	3000	-	553332.22N 0055830.64W	IAF
R11L	002	TF	ERUBO	N	176° (173.8°)	LEFT	2000	-210	552834.55N 0055733.83W	IF / 9.46NM
R11L	003	TF	EC11F	N	106° (103.8°)	-	2000	-	552745.36N 0055142.78W	FAF / 6NM
R11L	004	TF	MA11	Y	106° (103.8°)	-	-	-	552618.69N 0054125.87W	MAPt
R11L	005	CF	ECM01	N	106° (103.8°)	LEFT	-	-185	552452.49N 0053112.73W	-
R11L	006	TF	ECM02	N	016° (013.8°)	LEFT	-	-185	552943.24N 0052906.79W	-
R11L	007	TF	ERUBO	N	268° (266.1°)	-	2000	-	552834.55N 0055733.83W	HOLD

CHANGE (10/24): SPECIFICATION CHANGE.
AERO INFO DATE 09 JUL 24

Instrument Approach Procedure Coding Tables

CAMPBELTOWN RNP RWY 29 - Instrument Approach Procedure via XEBAB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R29R	001	IF	XEBAB	N	-	-	4000	-	552717.97N 0051752.45W	IAF
R29R	002	TF	EC29I	N	218° (216.3°)	RIGHT	2600	-210	552316.49N 0052303.60W	IF / 10.1NM
R29R	003	TF	EC29F	N	288° (286.1°)	-	2000	-	552439.31N 0053129.10W	FAF / 5.1NM
R29R	004	TF	RW29	Y	288° (286.1°)	-	-	-	552604.35N 0054009.60W	MAPt
R29R	005	CF	ECM03	N	288° (286.1°)	LEFT	-	-185	552808.13N 0055249.24W	-
R29R	006	TF	ECM04	N	198° (195.9°)	LEFT	-	-185	552320.26N 0055513.41W	-
R29R	007	TF	IBISO	N	095° (093.3°)	-	3500	-	552153.09N 0051438.65W	HOLD

CAMPBELTOWN RNP RWY 29 - Instrument Approach Procedure via IBISO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R29C	001	IF	IBISO	N	-	-	3500	-	552153.09N 0051438.65W	IAF
R29C	002	TF	EC29I	N	288° (286.2°)	-	2600	-210	552316.49N 0052303.60W	IF / 10.1NM
R29C	003	TF	EC29F	N	288° (286.1°)	-	2000	-	552439.31N 0053129.10W	FAF / 5.1NM
R29C	004	TF	RW29	Y	288° (286.1°)	-	-	-	552604.35N 0054009.60W	MAPt
R29C	005	CF	ECM03	N	288° (286.1°)	LEFT	-	-185	552808.13N 0055249.24W	-
R29C	006	TF	ECM04	N	198° (195.9°)	LEFT	-	-185	552320.26N 0055513.41W	-
R29C	007	TF	IBISO	N	095° (093.3°)	-	3500	-	552153.09N 0051438.65W	HOLD

CAMPBELTOWN RNP RWY 29 - Instrument Approach Procedure via OLIXO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R29L	001	IF	OLIXO	N	-	-	3000	-	551817.78N 0052228.83W	IAF
R29L	002	TF	EC29I	N	358° (356.2°)	LEFT	2600	-210	552316.49N 0052303.60W	IF / 10.1NM
R29L	003	TF	EC29F	N	288° (286.1°)	-	2000	-	552439.31N 0053129.10W	FAF / 5.1NM
R29L	004	TF	RW29	Y	288° (286.1°)	-	-	-	552604.35N 0054009.60W	MAPt
R29L	005	CF	ECM03	N	288° (286.1°)	LEFT	-	-185	552808.13N 0055249.24W	-
R29L	006	TF	ECM04	N	198° (195.9°)	LEFT	-	-185	552320.26N 0055513.41W	-
R29L	007	TF	IBISO	N	095° (093.3°)	-	3500	-	552153.09N 0051438.65W	HOLD

CHANGE (10/24): SPECIFICATION CHANGE.
AERO INFO DATE 09 JUL 24

EGFF — CARDIFF

EGFF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGFF — CARDIFF

EGFF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 512348N Long: 0032036W Mid point of Runway 12/30
2	Direction and distance from city	8.5 NM SW of Cardiff.
3	Elevation / Reference temperature / Mean Low Temperature	220 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	169 FT
5	Magnetic Variation / Annual Change	0.58°W (2022) / 0.20°E
6	AD Administration Address Telephone E-mail address Web address	CARDIFF INTERNATIONAL AIRPORT LTD. Cardiff International Airport, Rhoose, Barry, South Glamorgan CF62 3BD. 01446-711111 (Cardiff Airport Ltd) 01446-712562 (ATC) info@cwl.aero (CWL Aero) cardiffatc@nats.co.uk (ATC) www.cardiff-airport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone calls to NATS Ltd operational areas may be recorded.

EGFF AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24 See also AD 2.18.
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	

EGFF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Forklifts, pallet trucks, cargo loader 12.5 tonnes capacity suitable for loading up to Boeing 747 main deck. One lower lobe cargo loader 5 tonnes capacity. 2 Cargo loaders.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80, W100.
3	Fuelling facilities/capacity	
4	De-icing facilities	Upon request with Swissport.
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	Limited.

7	Remarks	Fuel AVTUR JET-A1 is available by arrangement with Swissport, Tel: 07388-943688. Fuel AVGAS is available from Global Trek Aviation, Tel: 01446-712699. Handling is mandatory for all aircraft over 2000 KG MTOW: General Aviation Support (<2000 KG MTOW): 01446-712548; generalaviation@cwl.aero Swissport (Commercial): Tel: 01446-712592. Signature (Executive, GA, Military and Cargo): 01446-712637. Global Trek Aviation (Executive, GA, Military and Cargo): 01446-712699. All departing aircraft are required to file a full or abbreviated flight plan electronically prior to departure. The addresses should be as per ENR 1.11.

EGFF AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel 0.5 miles from the airport.
2	Restaurants	Licensed buffet and cafeteria in the terminal.
3	Transportation	Buses: Shuttle bus to the nearest railway station, Rhoose (Cardiff International Airport) 2 miles. Bus service into Cardiff every 20 minutes (every 30 minutes: 1 November until 31 March). Taxis and car hire.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Bureau de Change. ATM Machine.
6	Tourist Office	Terminal Building.
7	Remarks	

EGFF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8 and 9 available by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Light aircraft can be removed using airport resources. Large aircraft can be removed using outside sources in conjunction with the aircraft operator.
4	Remarks	

EGFF AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, chemical de-icing, chemical anti-icing.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Anti-iced with KC Potassium acetate fluid.

EGFF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	SOUTH MAINTENANCE AREA (SOUTH OF HOLD G) Surface: Asphalt PCN 19/F/A/W/T SOUTH MAINTENANCE AREA (WEST OF HOLD H) Surface: Asphalt PCN 15/F/A/W/T TERMINAL AREA Surface: Concrete PCN 50/R/A/W/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 23 M Surface: Asphalt PCN 50/F/A/W/T

		Taxiway BRAVO: 23 M Surface: Asphalt PCN 50/F/A/W/T Taxiway CHARLIE: 23 M Surface: Asphalt PCN 42/F/A/W/T Taxiway DELTA: 23 M Surface: Asphalt PCN 42/F/A/W/T Taxiway ECHO: 43 M Surface: Asphalt PCN 42/F/A/W/T Taxiway GOLF: 43 M Surface: Asphalt PCN 61/F/A/W/T Taxiway HOTEL: 18 M Surface: Asphalt PCN 35/F/A/W/T Taxiway JULIET: Surface: Concrete PCN 50/R/A/W/T
3	Altimeter checkpoint location and elevation	Stands 1-10: 207-211 FT; Stands 11-17: 212-215 FT AMSL.
4	VOR checkpoints	
5	INS checkpoints	INS Checkpoints: See Aircraft Parking/Docking Chart.
6	Remarks	

EGFF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1-9 and 11-17 parking with marshaller guidance. Stand 10 parking with Safedock 2-18 system. Stands 7 and 9 fitted with driveable type airbridges.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 12/30: Runway designation, runway threshold. Runway centre-line, fixed distance marking. Touchdown zone and aiming point markings. Runway guard lights are positioned at Holding Points A1, A2, B1, B2, C, D, E1, G and H. Taxiway light(s): Centre-line (green) on taxiway serving 12/30, blue edge lights/markers at junctions.
3	Stop bars and runway guard lights (if any)	Red stop bars in use H24. Enhanced taxiway markings associated with all red stop bars. Red stop bars and signs showing holding point numbers at all holding points. Holding points A1 and B1 have no red stop bar and should not be used.
4	Other runway protection measures	
5	Remarks	Minimum power to achieve forward movement should be applied to move off all stands. All holding position signs are black on yellow positioned to the left hand side of the taxiway. There are 2 LGTD WDI to the south of Runway 12/30, adjacent to the runway threshold markings. 512400.40N 0032132.16W - 512333.12N 0032010.42W. Aircraft and vehicles must not cross an illuminated red stop bar, even if receipt of a clearance from ATC. Red stop bars will only be deselected by ATC upon receipt of a correct clearance readback from the pilot or driver. Aircraft requiring pushback from Stands 12-17 can expect to be pushed back into the cul-de-sac and to be towed forward to a position abeam Stands 12-17. Engines are not to be started until abeam Stand 12 for jet blast protection.

EGFF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFF1383) 12/APPROACH 30/ TAKE-OFF	BUILDING	512409.61N 0032135.84W	205 FT	21 FT	No	
(EGFF1382) 12/APPROACH 30/ TAKE-OFF	ILS	512407.83N 0032136.82W	209 FT	9 FT	Yes Red	
(EGFF1547) 30/APPROACH 12/ TAKE-OFF	ILS	512329.10N 0031934.11W	211 FT	11 FT	Yes Red	
(EGFF1539) 30/APPROACH 12/ TAKE-OFF	ILS	512327.74N 0031935.21W	211 FT	10 FT	Yes Red	
(EGFF1541) 30/APPROACH 15/ TAKE-OFF	FENCE	512326.91N 0031934.94W	211 FT	10 FT	No	
(EGFF1538) 30/APPROACH 12/ TAKE-OFF	FENCE	512326.58N 0031935.27W	211 FT	9 FT	No	
(EGFF2120) 30/APPROACH	TREE	512318.88N 0031924.66W	242 FT	55 FT	No	
(EGFF2119) 30/APPROACH	TREE	512318.73N 0031924.73W	235 FT	48 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFF1833)	TREE	512750.63N 0031909.94W	471 FT	65 FT	No	
(EGFF1849)	MAST	512733.54N 0031653.72W	1297 FT	883 FT	Yes Red	
(EGFF1206)	MAST	512726.78N 0032410.63W	1161 FT	751 FT	Yes Red	
(EGFF1223)	TREE	512722.30N 0032253.75W	474 FT	56 FT	No	
(EGFF1199)	PYLON	512721.42N 0032526.84W	541 FT	154 FT	No	
(EGFF1197)	PYLON	512721.18N 0032529.45W	532 FT	157 FT	No	
(EGFF1202)	MAST	512718.85N 0032507.81W	570 FT	138 FT	No	
(EGFF1201)	MAST	512718.80N 0032510.96W	575 FT	140 FT	No	
(EGFF1198)	PYLON	512709.40N 0032527.49W	494 FT	152 FT	No	
(EGFF1200)	PYLON	512709.30N 0032525.57W	520 FT	168 FT	No	
(EGFF1422)	BUILDING	512413.82N 0032046.14W	323 FT	109 FT	Yes Red	
(EGFF1417)	BUILDING	512406.95N 0032051.84W	322 FT	110 FT	Yes Red	
(EGFF1207)	CHIMNEY	512351.88N 0032340.39W	378 FT	344 FT	Yes Red	
(EGFF1204)	CHIMNEY	512314.22N 0032416.92W	529 FT	518 FT	Yes Red	

EGFF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER

2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 Hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	METFORM 214-215, H24 Mean Sea Level Pressure Forecast, EUR SIGWX, Upperwind/Temps, AIRMET Southern, AIRMET Northern, AIRMET Scottish.
8	Supplementary equipment available for providing information	METAR available during aerodrome operating hours, unverified AUTO METAR available when closed. ATIS available on 132.480 MHz.
9	ATS units provided with information	CARDIFF
10	Additional information (limitation of service, etc.)	

EGFF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
12	116.76°	2354 x 45 M	RWY surface: Asphalt, Grooved PCN 50/F/A/W/T	512401.72N 0032120.17W 168.5 FT	THR 205.0 FT TDZ 219.9 FT	
30	296.78°	2354 x 45 M	RWY surface: Asphalt, Grooved PCN 50/F/A/W/T	512332.83N 0031948.64W 168.2 FT	THR 213.0 FT TDZ 218.8 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	185 x 150 M					RWY 12 Threshold displaced by 220 M. Shoulders 7 M wide either side of the runway. Strip Dimensions: 2438 x 280 M.
	152 x 150 M					RWY 30 Threshold displaced by 152 M. Shoulders 7 M wide either side of the runway. Strip Dimensions: 2474 x 280 M.

EGFF AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
12	2318 M	2503 M	2318 M	2098 M	
30	2354 M	2506 M	2354 M	2202 M	
12	2098 M	2283 M	2098 M		Take-off from Holding point Bravo.
12	1494 M	1679 M	1494 M		Take-off from Holding point Echo.
30	2130 M	2282 M	2130 M		Take-off from Holding point Charlie.
30	1426 M	1578 M	1426 M		Take-off from Holding point Delta.
30	1339 M	1491 M	1339 M		Take-off from Holding point Hotel.

EGFF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
12	Coded centre-line with five crossbars. 747 M Light intensity high	Green Light intensity high Flush uni-directional with green wingbars	PAPI Left/3° 57 FT 326 M		Colour coded 30 M spacing	Elev HI bi-directional with LI omni-directional component	Red		
30	Coded centre-line with five crossbars. 832 M Light intensity high	Green Light intensity high Flush uni-directional with green wingbars	PAPI Left/3° 52 FT 297 M		Colour coded 30 M spacing	Elev HI bi-directional with LI omni-directional component	Red		

EGFF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 512355.48N 0032115.49W and 512333.84N 0032005.45W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes/1 Second.
5	Remarks	All stands are covered by apron floodlighting.

EGFF AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 512355.22N 0032038.45W
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	A helicopter set down point marked with a 'H' is situated on taxiway Alpha to the south of Stand 12. Helicopters will be required to ground taxi or hover for parking as instructed by ATC.

EGFF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CARDIFF CTR 513021N 0032755W - 512957N 0032222W - 512815N 0031700W thence clockwise by the arc of a circle radius 5 NM centred on 512348N 0032036W to 511920N 0032411W - 512208N 0033305W thence clockwise by the arc of a circle radius 8 NM centred on 512348N 0032036W to 513021N 0032755W	Upper limit: FL105 Lower limit: SFC	D	CARDIFF APPROACH English	6000 FT		All training flights in the Cardiff CTR/CTA are subject to the prior permission of Cardiff Approach Control. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
CARDIFF ATZ 512532N 0032328W thence clockwise by the arc of a circle radius 2.5 NM centred on 512348N 0032036W to 512241N 0032410W - 512532N 0032328W	Upper limit: 2000 FT AGL Lower limit: SFC	D	CARDIFF APPROACH English	6000 FT		

EGFF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	CARDIFF APPROACH	119.155 DOC 50 NM/ 19,000 FT. Initial contact frequency.			H24	ATZ hours coincident with Approach hours.
		125.855 DOC 40 NM/ 19,000 FT.			As directed by ATC	
TWR	CARDIFF TOWER	133.105 DOC 25 NM/4,000 FT.			H24	
RADAR	CARDIFF RADAR	125.855 DOC 50 NM/ 19,000 FT.			0600-2300 (0500-2200)	Radar may be available 2300-0600 (2200-0500).
ATIS	CARDIFF INFORMATION	132.480 DOC 60 NM/ 20,000 FT.			H24	ATIS information available by telephone externally on 01446-729319 or internally on Ext 3319.
OTHER	CARDIFF FIRE	121.600 Non-ATS frequency.			Available when fire vehicle attending aircraft on the ground in an emergency.	

EGFF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.28°E (2027)	ICDF	110.700 MHz	HO	512328.42N 0031934.66W		

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/GP	ICDF	330.200 MHz	HO	512401.07N 0032103.12W		3° ILS Ref Datum Hgt 50 FT.
ILS/LOC I 0.27°E (2027)	ICWA	110.700 MHz	HO	512407.15N 0032137.37W		(RWY 30) ILS only operational from 18 NM to the threshold.
ILS/GP	ICWA	330.200 MHz	HO	512332.45N 0032004.69W		3° ILS Ref Datum Hgt 50 FT.
NDB (L) 0.27°E (2027)	CDF	388.500 kHz	H24	512336.16N 0032016.47W		On AD. Range 40 NM.
ILS/DME	ICDF	44X 110.700 MHz	H24	512355.80N 0032026.28W	279 FT	(RWY 12) Freq paired with ILS I-CWA and I-CDF. Zero range is indicated at THR of runway in use for ILS approaches only.
ILS/DME	ICWA	44X 110.700 MHz	H24	512355.80N 0032026.28W	279 FT	(RWY 30) Freq paired with ILS I-CWA and I-CDF. Zero range is indicated at THR of runway in use. For ILS approaches only.
VOR/DME 0.27°E (2027) 0.8°W (2019)	BCN	121Y 117.450 MHz	H24	514331.89N 0031546.92W	1450 FT	RNAV Substitution Only. VOR DOC: 65 NM/50000 FT. DME DOC: 65 NM/50000 FT (125 NM/50000 FT in Sector R136-001).

EGFF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Cardiff CTR.
b) Use by aircraft not able to communicate with ATC by radio is subject to prior permission.
c) Terms and conditions of use of aerodrome available from Airport Operations Director.
d) All flights, except General Aviation and Military flights, are subject to the prior approval of the Managing Director, Cardiff Airport Ltd and prior notification to Airport Co-ordination Ltd, who act as an agent for the airport. Requests for ad-hoc slot allocations should be made to ACL during working hours Mon-Fri 0830-1700 (0730-1600) by SITA: LONACXH; e-mail: lonacxh@acl-uk.org; or Tel: +44(0)161-4931850, Fax: +44(0)161-4931853. OCS account holders can add, change and cancel slots at any time on the online co-ordination portal: https://www.online-coordination.com/default.aspx?AspxAutoDetectCookieSupport=1.
e) High-visibility clothing MUST be worn airside.

2 GROUND MOVEMENT

a) Departing aircraft on first contact with Cardiff ATC must state aircraft type, stand number and the code letter of the latest ATIS received. Pilots of departing aircraft are reminded to contact Cardiff Tower for clearance 10 minutes before start up.
b) One way traffic flow system Southside using holding points G and H.

i. Access through holding points G and H is restricted to one aircraft movement at a time.
ii. When Runway 30 is the notified runway in use aircraft will line up via holding point H and vacate though holding point G unless otherwise instructed by ATC.
iii. When runway 12 is the notified runway in use aircraft will line up via holding point G and vacate via holding point H unless otherwise instructed by ATC.
iv. During Low Visibility Procedures access to and from the runway in use will be via H.

c) Taxiway Charlie must not be used by code 'D' or 'E' aircraft to enter or vacate the runway with the exception of the B757 and B767 series aircraft.
d) Aircraft Code ‘D’ and ‘E’ (excluding the B757 and B767) cannot make turns from ‘E’ in a westerly direction onto the 'B' taxiway.

3 CAT II/III OPERATIONS

a) Cardiff Airport is not equipped for CAT II/III operations, however Low Visibility Procedures are used to protect CAT I operations.
b) Low Visibility Procedures will commence when RVR/MET visibility falls to 800 M or less. This will be reported by ATIS or RTF.
c) Pilots will be informed when these procedures are in operation by ATIS or by RTF.

4 WARNINGS

a) Pilots are reminded of the close proximity of St Athan aerodrome to the west north west of Cardiff aerodrome, see AD 2.22 paragraphs 1 and 8.
b) Pilots are warned, when landing on Runway 30 in strong west to south westerly winds, of the possibility of terrain induced turbulence on short finals.
c) Due to possibility of turbulence caused by hangar north east of Runway 12 threshold, caution should be exercised during periods of strong north westerly to north easterly winds.
d) Grass cutting takes place May-Oct.
e) Single-engined aircraft should avoid overflying the chemical complex at Barry.
f) Red Stop Bars in operation H24.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Circuit direction is normally to the north.
b) In accordance with EU OPS Subpart E, the following approach operations are available to approved operators:

i. Runway 12 is suitable for lower than Standard Category I operations supported by an ILS Classification of I/T/4, when the IRVR is not less than 450 M.
ii. Runway 30 is suitable for lower than Standard Category I operations supported by an ILS Classification of I/T/4, when the IRVR is not less than 450 M.

7 TRAINING

a) All IFR training in Cardiff CTR/CTA subject to PPR from Cardiff Approach https://instrumenttraining.as.me/.
b) All aircraft wishing to carry out instrument training within the Cardiff Zone, must have a functioning transponder with Mode C.

EGFF AD 2.21 NOISE ABATEMENT PROCEDURES

a) Every operator of aircraft using the airport shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
b) The Noise Preferential Routeings (NPR) given below are compatible with ATC requirements and shall apply in both VMC and IMC. The tracks are to be flown by all departing jet aircraft and by all other aircraft with a maximum certificated weight exceeding 5700 kg unless otherwise instructed by ATC or unless deviations are required in the interests of safety.

The NPRs are incorporated in ATC Standard Instrument Departure procedures (SIDs)

Take-Off Runway	NPR
12	North: Climb straight ahead to 4.5 nm DME before turning left South: Climb straight ahead to 2 nm DME before turning right
30	Climb straight ahead to 4nm before turning either left or right

The obligations of the NPRs cease when an altitude of 3000 ft QNH or above has been reached.

c) **Continuous Descent Approaches**

Subject to ATC instructions, inbound aircraft are to maintain as high an altitude as practical and adopt a continuous descent profile, when appropriate. ATC will advise pilots of an estimate of the track distance to run to touchdown as soon as possible after first call on the approach frequency.

d) In the interest of noise abatement, restrictions are imposed on the ground running of engines between 2230-0730 (2130-0630) and operators are advised to contact the Airport Operations Director for details.
e) The use of reverse thrust, particularly after 2130 (2030), is to be kept to a minimum consistent with operational needs.

EGFF AD 2.22 FLIGHT PROCEDURES

1 GENERAL INFORMATION

a) The attention of pilots of aircraft inbound to Runway 12 or outbound from Runway 30 at Cardiff Airport is drawn to the close proximity of St Athan aerodrome and the St Athan Local Flying Zone (see paragraph 8) to the Cardiff arrival/departure tracks. Pilots of VFR aircraft to/from Cardiff Airport may be required by Cardiff ATC to enter/leave the CTR at Visual Reference Points which avoid the St Athan Local Flying Zone.

b) Additionally, St Athan based aircraft may carry out aerobatic manoeuvres and other unusual activities above, within and below the western part of the Cardiff CTA. Pilots transitting above or below the CTA are strongly recommended to contact Cardiff Approach Control for appropriate traffic information.

2 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Arrival Routes (STAR) for aircraft inbound from the UK ATS Route network are detailed at AD 2-EGFF-7.
b) Inbound Procedures other than from the ATS Route network:

i. Inbound aircraft other than from the ATS Route network should request clearance to enter the Cardiff CTR/CTA at least 10 minutes from the CTR/CTA boundary and must observe the normal procedure for joining controlled airspace.
ii. VFR flights and flights requesting Special VFR clearance will normally be instructed to route via one of the Visual Reference Points as detailed at paragraph 7.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Aircraft outbound via the UK ATS Route network. Standard Instrument Departures (SID) for aircraft outbound from the UK ATS Route network are detailed at AD 2-EGFF-6-1 to 6-3.

4 AIRCRAFT OUTBOUND TO THE FIR

a) IFR flights wishing to leave the Cardiff CTR/CTA to enter the London FIR will be cleared by the most direct route consistent with the current traffic situation.
b) VFR flights and flights requesting Special VFR clearance will normally be instructed to route via one of the Visual Reference Points as detailed at paragraph 7.

5 HOLDING

Holding Point	Details
Cardiff NDB CDF	Inbound track 297° MAG - turning left at the facility. Lowest holding altitude 2500 FT

6 RADIO COMMUNICATION FAILURE PROCEDURES

a) In the event of complete radio communications failure in an aircraft, the pilot will adopt the appropriate procedure described at ENR 1.1.3. The route to be used when leaving the Zone in accordance with this procedure is as follows:

Position at time of decision	Route
NDB CDF	Track 040°T at 2500 FT ALT.

7 VISUAL REFERENCE POINTS (VRP)

a) Pilots are advised to use caution when routeing via the St Hilary TV Mast and Wenvoe TV Mast VRPs as they are Air Navigation Obstacles with high elevation – See ENR 5.4 dataset for up to date details of ICAO AREA 1 Obstacles.
b) Pilots are advised to use caution when routing via the Cardiff Docks VRP due to its proximity to Cardiff Heliport.
c) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

8 ST ATHAN AERODROME - LOCAL FLYING ZONE AND PROCEDURES

a) St Athan aerodrome lies within the Cardiff CTR/CTA to the west of Cardiff. By arrangement with Cardiff ATC during the hours of watch of St Athan ATC (normally 0830-1700 (0730-1600)), and subject to the conditions detailed in paragraph (b) flights by St Athan based aircraft may take place in VMC, without reference to Cardiff ATC, within a Local Flying Zone (LFZ) bounded by the following positions:

512524N 0033307W - 512456N 0032523W - 512406N 0032302W - 512247N 0032302W - 512124N 0033042W - 512209N 0033306W thence clockwise by the arc of a circle radius 8 NM centred on 512348N 0032036W from 512209N 0033306W to 512524N 0033307W.
b) The following conditions apply to aircraft operating within the St Athan Local Flying Zone:

i. Aircraft are to be in communication with and comply with instructions from St Athan ATC;
ii. All aircraft conduct their flights within the weather criteria specified for VFR flights within Class D Airspace;
iii. Maximum altitude 1700 FT (Cardiff QNH);
iv. Pilots operating in the St Athan LFZ are responsible for maintaining their own visual separation from other aircraft, including aircraft on final approach to Runway 12 and departing from Runway 30 at Cardiff, which are in close proximity to the Local Flying Zone. (Traffic information will be passed by St Athan ATC).

c) Flights to/from St Athan ATC which are unable to comply with the requirements of the St Athan Local Flying Zone will be subject to individual clearance from Cardiff ATC and will be fully in tegrated with Cardiff arriving/departing traffic.
d) Visual approaches to Cardiff Runway 12 are unavailable when the Local Flying Zone is active.
e) All VFR flight is expected to comply with the following published VFR routes:

i. Departure Routes

Designator	Runway	Route	Maximum Altitude
East	07/25	Aircraft remain west of Aberthaw power station over water, clearance limit Aberthaw power station, then as directed by Cardiff Tower.	1500 FT
South	07/25	Aircraft remain west of the quarry and leave CAS towards Minehead VRP.	1500 FT
Nash Point	07/25	Aircraft remain within the confines of the LFZ and leave CAS to the west towards Nash Point VRP.	1500 FT
North	07/25	Leave CAS between the St Hilary and Wenvoe TV Masts.	1500 FT

Note 1: *Pilots who wish to operate above the 'maximum altitude' shall request this once airborne.*

Note 2: *All routes are available Special VFR subject to ATC clearance.*

Note 3: *Pilots can expect to receive a clearance in the format "{Callsign}, cleared to leave controlled airspace on a published {designator} departure, not above {altitude restriction} {QNH} VFR, {Squawk}.". A complete read-back is required.*

ii. Arrival Routes

Designator	Runway	Route	Maximum Altitude
East	07/25	From the northeast, route as directed by Cardiff Tower to hold east of Aberthaw power station and as directed by St Athan ATC.	1500 FT
South	07/25	Enter CAS from the south, remain west of the quarry and as directed by St Athan ATC.	1500 FT
Nash Point	07/25	Enter CAS via Nash Point, route eastbound along the coast over water, then as directed by St Athan ATC.	1500 FT
North Arrival	07/25	Enter CAS towards the St Hilary VRP to orbit and remain north of the mast, then as directed by Cardiff Tower.	1500 FT
Straight In	07/25	Enter CAS to position straight in for the runway in use.	Subject to co-ordination

Note 1: *Pilots who wish to operate above the 'maximum altitude' shall request this.*

Note 2: *All routes are available Special VFR subject to ATC clearance.*

Note 3: *Pilots can expect to receive a clearance in the format: "{Callsign}, cleared to enter controlled airspace on a published {designator} arrival, not above {altitude restriction} {QNH} VFR.". A complete read-back is required.*

9 SPECIAL VFR CLEARANCES

Special VFR Clearances for flights within the Cardiff CTR may be requested and will be given whenever traffic conditions permit. These flights are subject to the general conditions laid down for Special VFR flights and will normally only apply to aircraft which carry RTF including the appropriate frequencies.

10 VFR FLIGHTS

VFR clearance in the Cardiff CTR will be given for flights operating in VMC. Routeing instructions and/or altitude restrictions may be specified in order to integrate VFR flights with other traffic. Pilots are reminded of the requirements to remain in VMC at all times and to comply with the relevant parts of the Low Flying Rules, and must advise ATC if at any time they are unable to comply with the clearance instructions issued.

11 VFR ROUTES TO/FROM CARDIFF

a) In order to integrate VFR flights to/from Cardiff with the normal flow of IFR traffic, a number of published VFR routes are established along which ATC VFR clearances will be issued subject to the conditions specified in paragraph 9. These routes are determined by prominent ground features and are detailed in the following tables.
b) In order to reduce RTF congestion, the published outbound and inbound visual routes are allocated route designators. Pilots are to ensure that they are familiar with the route alignment. Level instructions will be passed with the appropriate ATC VFR clearance.

Published Outbound Visual Routes

Route Designator	Exit Point	RWY	Route	Maximum Altitude	Remarks
VFR St Hilary	Bridgend	30/12	Route north of St Hilary TV Mast and leave CAS to the west routing north of Bridgend at Junction 36 VRP.	1500 FT	
VFR North	North	30/12	Route between the St Hilary and Wenvoe TV masts and leave CAS to the north.	1500 FT	
VFR Wenvoe	W Cardiff Docks	30/12	Route east if the Wenvoe TV masts and leave CAS to the northeast.	1500 FT	

Route Designator	Exit Point	RWY	Route	Maximum Altitude	Remarks
VFR Flat Holm	NE Flat Holm Lighthouse	30/12	Route north of Barry then north of Flat Holm Island, and leave CAS at the east/southeast zone boundary.	1500 FT	
VFR South	N Minehead	30	Route east of the quarry (1 NM west of Cardiff airport) and leave CAS to the south towards Minehead VRP.	1500 FT	Cardiff will endeavour to remove the 1500 FT restriction for flight over water ASAP.
VFR South	N Minehead	12	Route south and leave CAS to the south towards Minehead VRP.	1500 FT	Cardiff will endeavour to remove the 1500 FT restriction for flight over water ASAP.
VFR Nash Point	Nash Point	30	Route east of the quarry (1 NM west of Cardiff airport) and leave CAS to the west along the coast, over water, via Nash Point.	1500 FT	Route normally only available when St Athan is not active.
VFR Nash Point	Nash Point	12	Leave CAS to the west along the coast, over water, via Nash Point.	1500 FT	Route normally only available when St Athan is not active.
VFR Watchet	Watchet Harbour VRP	30	Route east of the quarry (1 NM west of Cardiff airport) and leave CAS to the south east via Watchet Harbour VRP.	1500 FT	Cardiff will endeavour to remove the 1500 FT restriction for flight over water ASAP.
VFR Watchet	Watchet Harbour VRP	12	Route south east and leave CAS to the south east via Watchet Harbour VRP.	1500 FT	Cardiff will endeavour to remove the 1500 FT restriction for flight over water ASAP.

Published Inbound Visual Routes

Route Designator	Entry Point	RWY	Route	Maximum Altitude	Remarks
VFR St Hilary	Bridgend	30/12	Enter CAS via Bridgend and route north of St Hilary TV Mast, then as directed by Cardiff ATC.	1500 FT	
VFR North	North	30/12	Enter Cardiff CAS from the north between the St Hilary and Wenvoe TV Masts, then as directed by Cardiff ATC.	1500 FT	
VFR Wenvoe	W Cardiff Docks	30/12	Enter Cardiff CAS via the Wenvoe TV mast, then as directed by Cardiff ATC.	1500 FT	
VFR Cardiff Docks	Cardiff Docks	30/12	Enter Cardiff CAS via Cardiff Docks, then as directed by Cardiff ATC.	1500 FT	
VFR Flat Holm	N of Flat Holm Lighthouse	30/12	Enter Cardiff CAS via Weston aerodrome, route north of Flat Holm Lighthouse towards Laverrnock Point, then as directed by Cardiff ATC.	1500 FT	
VFR South	N Minehead	30	Enter Cardiff CAS to the south, then as directed by Cardiff ATC.	1500 FT	
VFR South	N Minehead	12	Enter Cardiff CAS from the south, remaining east of the quarry (1 NM west of Cardiff airport) then as directed by Cardiff ATC.	1500 FT	
VFR Nash Point	Nash Point	30	Enter Cardiff CAS via Nash Point, route along the coast, remaining over water, then as directed by Cardiff ATC.	1500 FT	Route normally only available when St Athan is not active.
VFR Nash Point	Nash Point	12	Enter Cardiff CAS via Nash Point, route along the coast, remaining over water and east of the quarry (1 NM west Cardiff airport), then as directed by Cardiff ATC.	1500 FT	Route normally only available when St Athan is not active.
VFR Watchet	Watchet Harbour VRP	30	Enter Cardiff CAS from the south east, then as directed by Cardiff ATC.	1500 FT	
VFR Watchet	Watchet Harbour VRP	12	Enter Cardiff CAS from the south east, remaining east of the quarry (1 NM west of Cardiff airport) then as directed by Cardiff ATC.	1500 FT	

12 CARDIFF CITY HELIPORT (EGFC)

a) **Landing and Taking Off Within Congested Areas**

i. When a landing or take-off is intended at Cardiff Heliport, which is situated within a congested area, compliance with the following procedures is required under the Standardised European Rules of the Air SERA.3105 Minimum Heights and as notified under Rules of the Air Regulations 2015 Rule 5(1)(a).
ii. Notified Procedures:

1. Landing and take-off shall only be performed with the permission of the person in charge of the aerodrome;
2. Except when necessary for take-off or landing at the aerodrome, aircraft shall not be flown over the congested area unless at such a height as will permit, in the event of an emergency arising, including a critical engine failure, a landing to be made without undue hazard to persons or property on the surface. This height shall be at least 300 M (1000 FT) above the highest obstacle within a radius of 600 M from the aircraft; and
3. Approach and departure shall be made over clear areas so that a safe forced landing can be achieved in the event of engine failure.

b) **Use Requirements**

Use of Cardiff City Heliport is subject to a strict PPR policy. A Full briefing pack must be downloaded from www.cardiffheliport.com prior to landing at the Heliport.

c) **Controlled Airspace**

Permission to operate at Cardiff City Heliport does not constitute permission to enter controlled airspace. The controlling authority of the relevant controlled airspace shall be contacted in accordance with standard airspace procedures.

13 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the Cardiff controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Cardiff Approach frequency, 119.155 MHz, are encouraged to select SSR code 3636.

515324N 0032556W - 515122N 0031317W -
515034N 0030532W - 513945N 0024042W -
512715N 0030058W - 512349N 0030302W -
510900N 0030300W - 510306N 0030723W -
505955N 0031044W - 510140N 0033616W -
512432N 0034819W - 515324N 0032556W.

b) Selection of 3636 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Cardiff controlled airspace at all times.
c) Whilst squawking 3636, pilots should be aware that Cardiff Approach may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 3636 shall be deselected.

EGFF AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGFF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGFF-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGFF-2-2
CONTROL ZONE and CONTROL AREA CHART - LOCAL FLYING and ENTRY EXIT PROCEDURES
AD 2.EGFF-4-1
ST ATHAN LOCAL FLYING ZONE
AD 2.EGFF-4-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGFF-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) LEKCI 1B - ICAO
AD 2.EGFF-6-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) BCN 1A 1B (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGFF-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) EXMOR 1A 1B - ICAO
AD 2.EGFF-6-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) WEVBE 1C ELREW 1C - ICAO
AD 2.EGFF-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) FIFAH 1C - ICAO
AD 2.EGFF-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ICTAM 2C - ICAO
AD 2.EGFF-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) DAWLY 1C - ICAO
AD 2.EGFF-7-4
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART – INSTRUMENT (STAR) TOJAQ 2C - ICAO
AD 2.EGFF-7-5
RNAV1 STANDARD ARRIVAL CHART – INSTRUMENT (STAR) BAJJA 1C - ICAO
AD 2.EGFF-7-6
STANDARD INSTRUMENT ARRIVAL CODING TABLES WEVBE 1C ELREW 1C FIFAH 1C
AD 2.EGFF-7-7
STANDARD INSTRUMENT ARRIVAL CODING TABLES ICTAM 2C DAWLY 1C
AD 2.EGFF-7-8
STANDARD INSTRUMENT ARRIVAL CODING TABLES TOJAQ 2C BAJJA 1C
AD 2.EGFF-7-9
RNAV HOLD CODING TABLES CDF
AD 2.EGFF-7-10
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 12 - ICAO
AD 2.EGFF-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 12 - ICAO
AD 2.EGFF-8-2
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 12 - ICAO
AD 2.EGFF-8-3
INSTRUMENT APPROACH CHART RNP RWY 12 - ICAO
AD 2.EGFF-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 12 - ICAO
AD 2.EGFF-8-5
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) y RWY 30 (CAT A,B) - ICAO
AD 2.EGFF-8-6
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) z RWY 30 (CAT C,D) - ICAO
AD 2.EGFF-8-7
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) y RWY 30 (CAT A,B) - ICAO
AD 2.EGFF-8-8
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) z RWY 30 (CAT C,D) - ICAO
AD 2.EGFF-8-9
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 30 - ICAO
AD 2.EGFF-8-10
INSTRUMENT APPROACH CHART RNP RWY 30 - ICAO
AD 2.EGFF-8-11
INSTRUMENT APPROACH CHART NDB(L) DME y RWY 30 (ACFT CAT A,B) - ICAO
AD 2.EGFF-8-12
INSTRUMENT APPROACH CHART NDB(L) DME z RWY 30 (ACFT CAT C,D) - ICAO
AD 2.EGFF-8-13
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 12
AD 2.EGFF-8-14
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 30
AD 2.EGFF-8-15

EGFF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

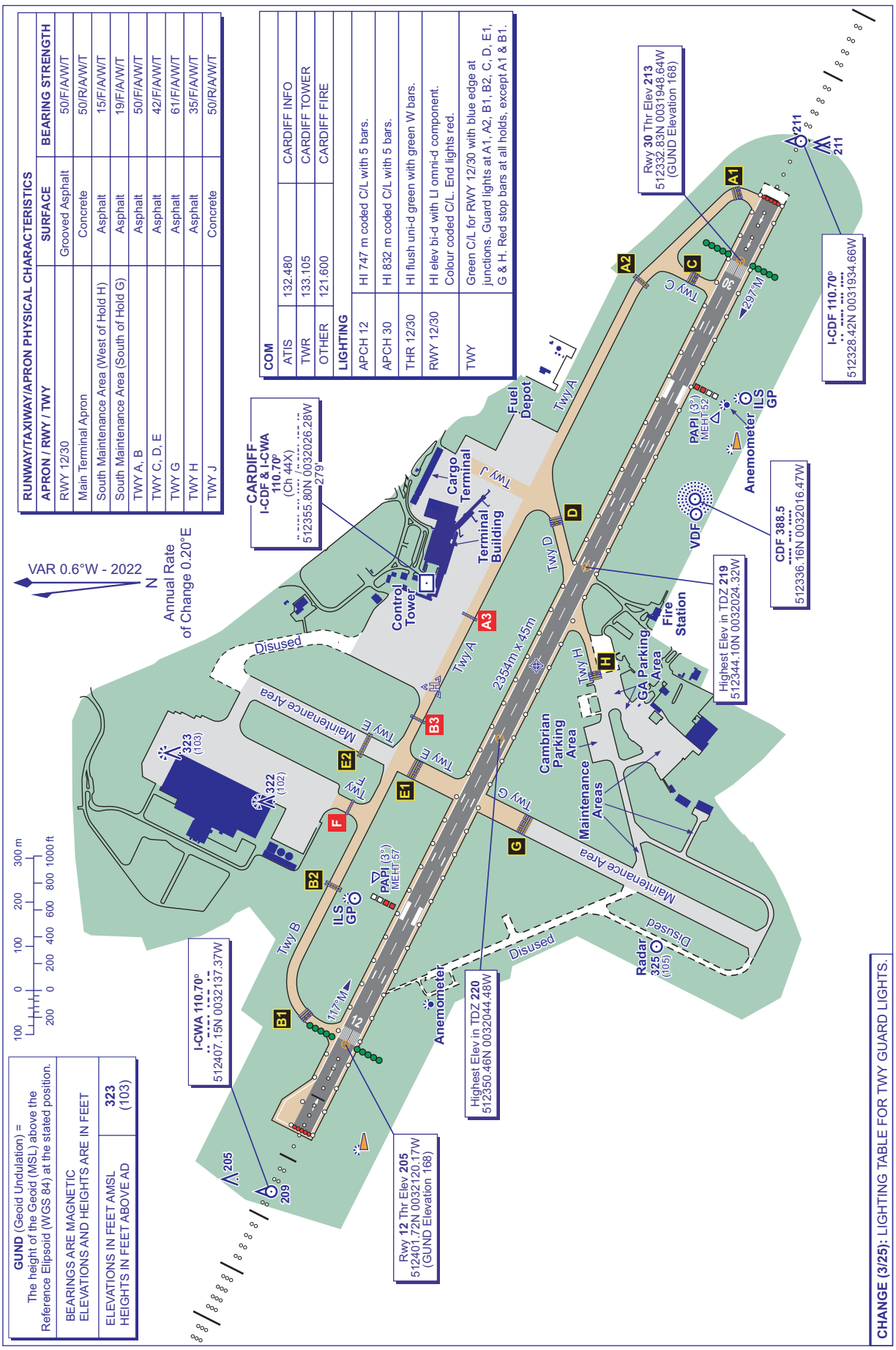
Not applicable

CARDIFF
EGFF

AD ELEV 220FT

ARP 512348N 0032036W

AERODROME CHART - ICAO



AERO INFO DATE 06 JAN 25

AD 2-EGFF-2-1

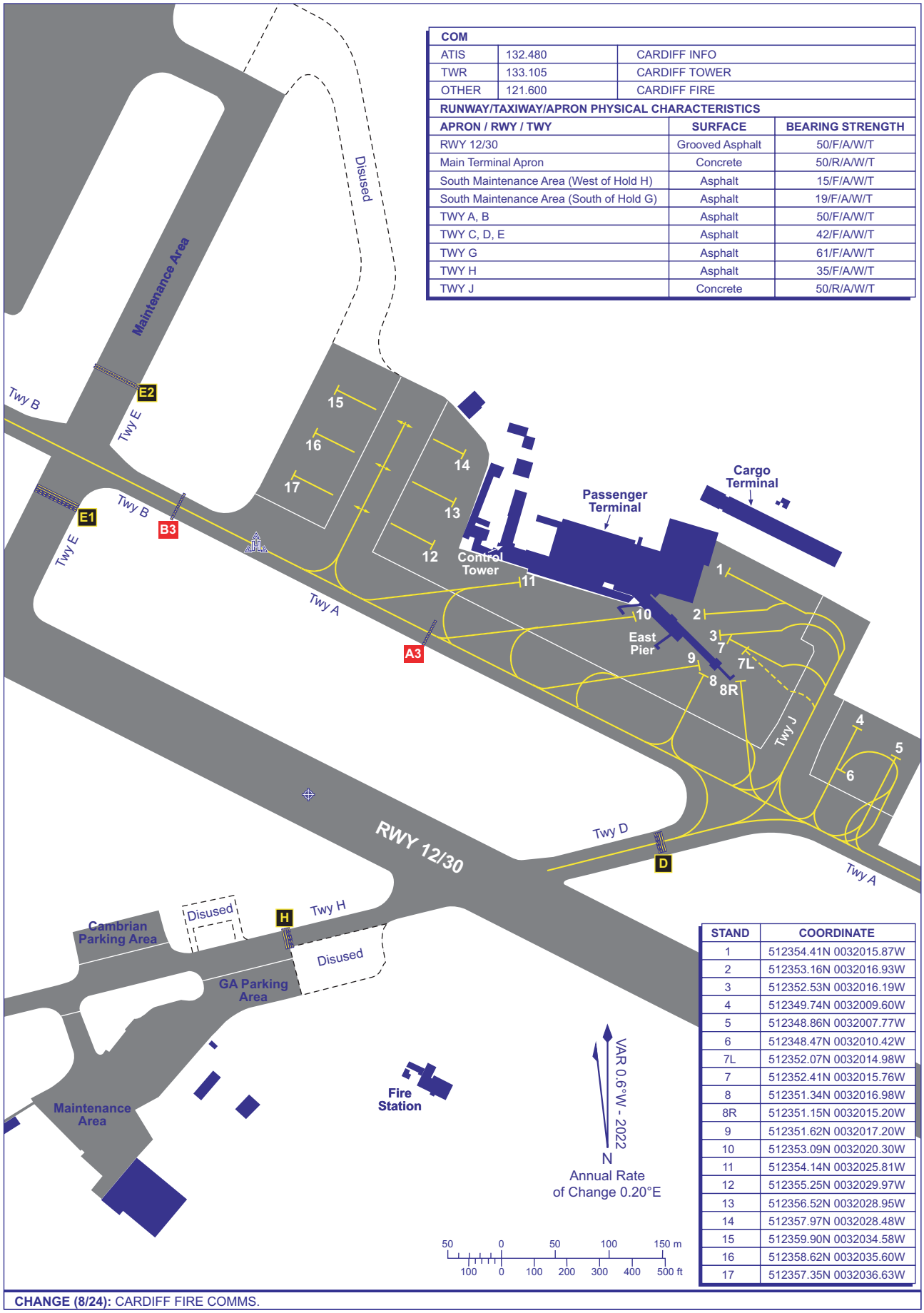
I

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 512348N 0032036W

AD ELEV 220FT

CARDIFF
EGFF



COM		
ATIS	132.480	CARDIFF INFO
TWR	133.105	CARDIFF TOWER
OTHER	121.600	CARDIFF FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 12/30	Grooved Asphalt	50/F/A/W/T
Main Terminal Apron	Concrete	50/R/A/W/T
South Maintenance Area (West of Hold H)	Asphalt	15/F/A/W/T
South Maintenance Area (South of Hold G)	Asphalt	19/F/A/W/T
TWY A, B	Asphalt	50/F/A/W/T
TWY C, D, E	Asphalt	42/F/A/W/T
TWY G	Asphalt	61/F/A/W/T
TWY H	Asphalt	35/F/A/W/T
TWY J	Concrete	50/R/A/W/T

STAND	COORDINATE
1	512354.41N 0032015.87W
2	512353.16N 0032016.93W
3	512352.53N 0032016.19W
4	512349.74N 0032009.60W
5	512348.86N 0032007.77W
6	512348.47N 0032010.42W
7L	512352.07N 0032014.98W
7	512352.41N 0032015.76W
8	512351.34N 0032016.98W
8R	512351.15N 0032015.20W
9	512351.62N 0032017.20W
10	512353.09N 0032020.30W
11	512354.14N 0032025.81W
12	512355.25N 0032029.97W
13	512356.52N 0032028.95W
14	512357.97N 0032028.48W
15	512359.90N 0032034.58W
16	512358.62N 0032035.60W
17	512357.35N 0032036.63W

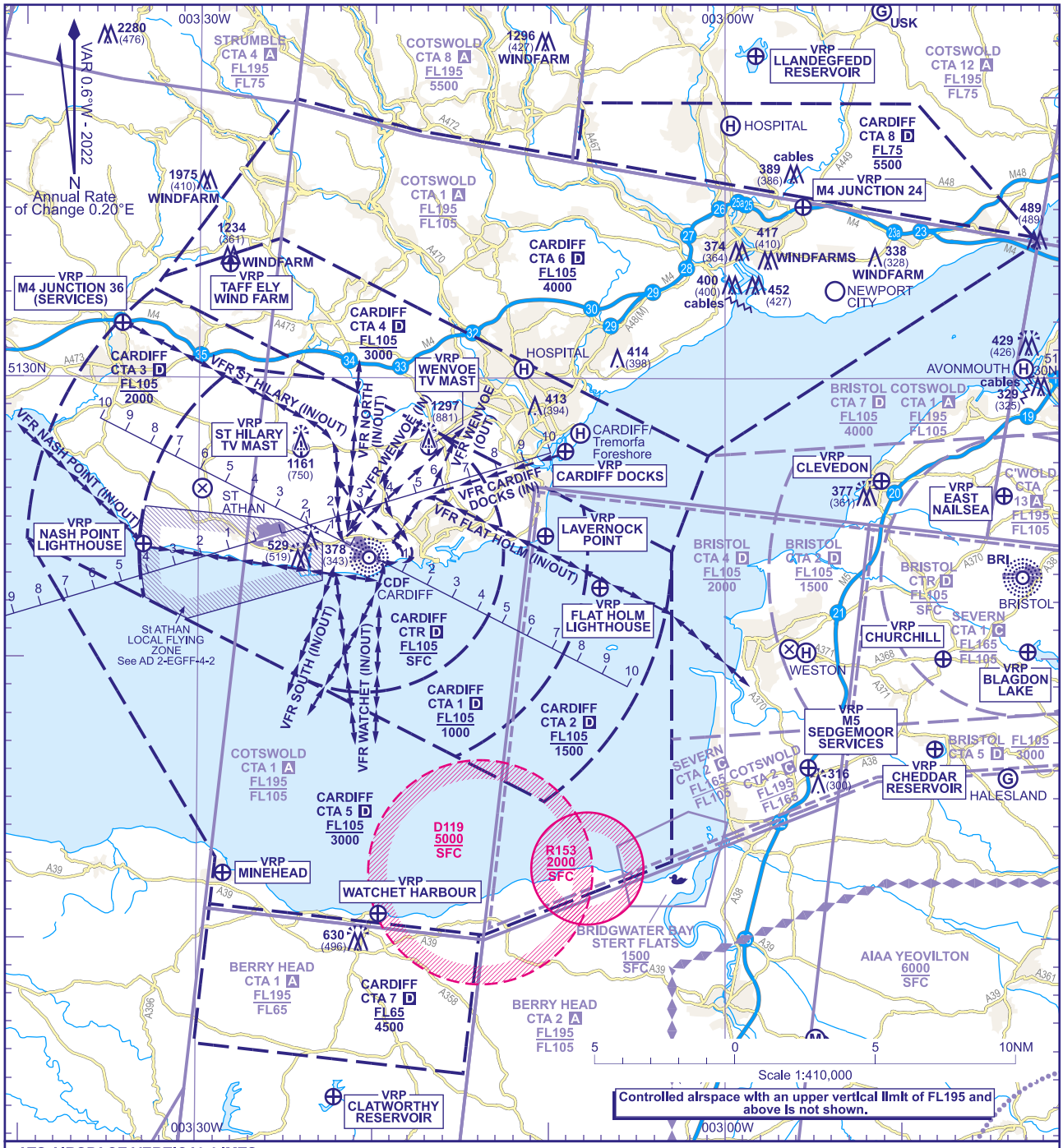
CHANGE (8/24): CARDIFF FIRE COMMS.

AERO INFO DATE 20 MAY 24

AD 2-EGFF-2-2

CONTROL ZONE AND CONTROL AREA CHART - LOCAL FLYING AND ENTRY/EXIT PROCEDURES

CARDIFF



ATS AIRSPACE VERTICAL LIMTS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

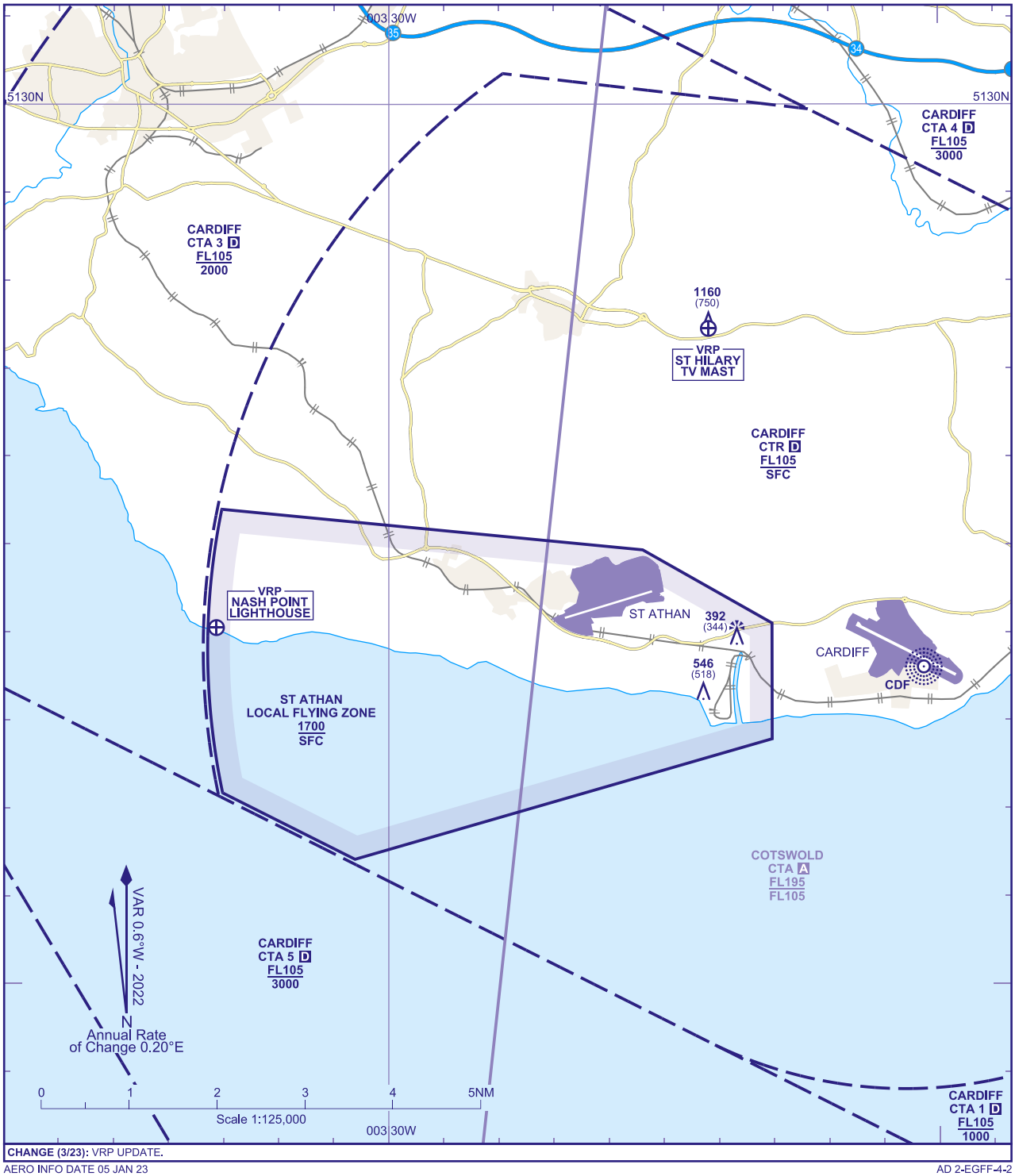
CHANGE (8/25): N862 LABEL REMOVED.

AERO INFO DATE 07 MAY 25

AD 2-EGFF-4-1

ST ATHAN LOCAL FLYING ZONE

CARDIFF



CHANGE (3/23): VRP UPDATE.

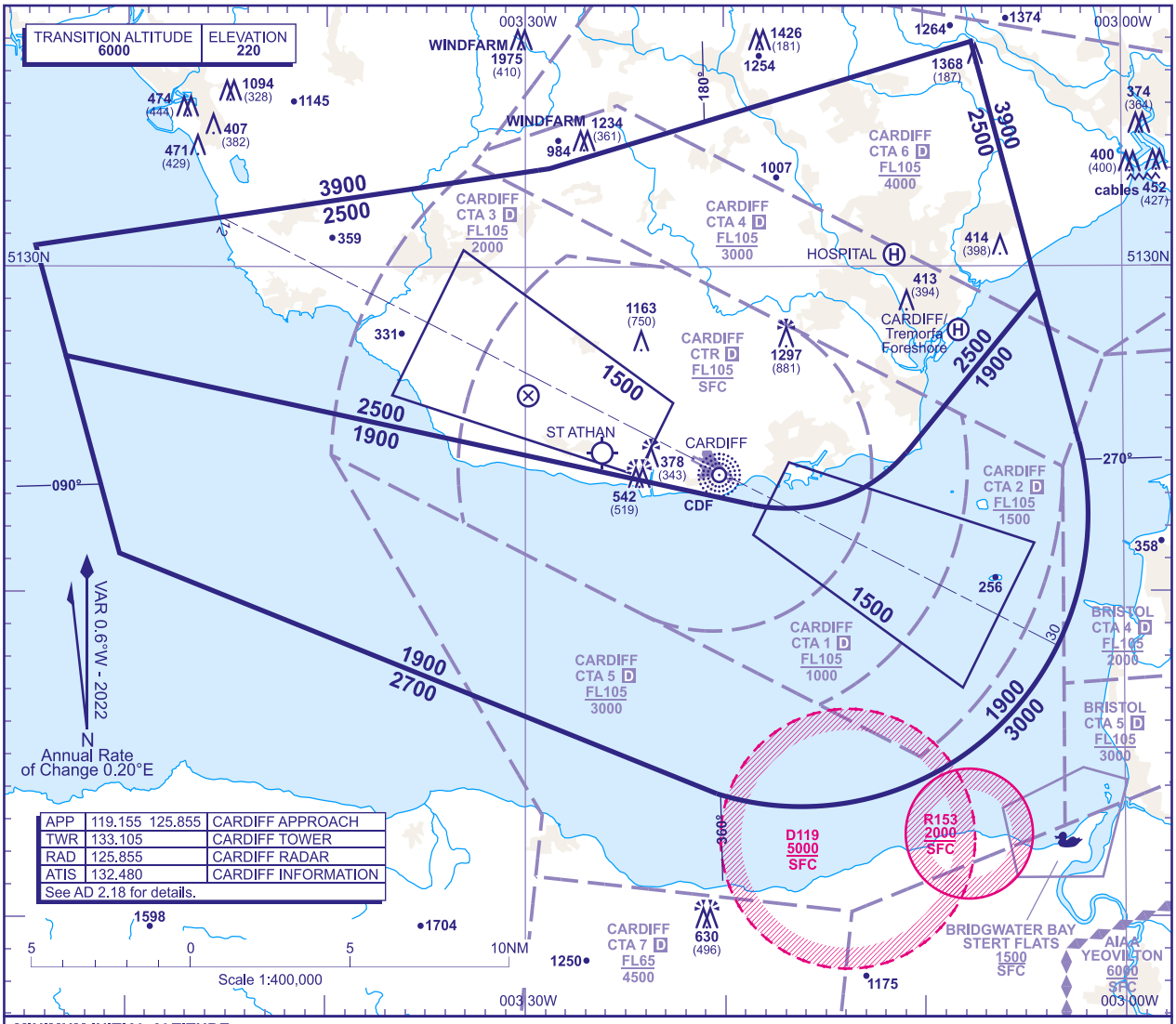
AERO INFO DATE 05 JAN 23

AD 2-EGFF-4-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1975
HEIGHTS IN FEET AGL (410)

CARDIFF



APP	119.155 125.855	CARDIFF APPROACH
TWR	133.105	CARDIFF TOWER
RAD	125.855	CARDIFF RADAR
ATIS	132.480	CARDIFF INFORMATION
See AD 2.18 for details.		

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2500** in the sector defined by the lateral limits; 513039N 0035438W - 513302N 0032847W - 513655N 0030733W - 512913N 0030413W - 512416N 0031053W thence clockwise by an arc of a circle radius 5NM centred on 512734N 0031654W to 512241N 0031835W - 512715N 0035305W - 513039N 0035438W.

b) **1900** in the sector defined by the lateral limits; 512715N 0035305W - 512241N 0031835W thence anticlockwise by an arc of a circle radius 5NM centred on 512734N 0031654W to 512416N 0031053W - 512913N 0030413W - 512435N 0030213W thence clockwise by an arc of a circle radius 9NM centred on 512224N 0031610W to 511348N 0032026W - 512111N 0035021W - 512715N 0035305W.

NOTE: Radar headings will be allocated so as to avoid Danger Area D119 when active.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) CDF**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) CDF**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 24 JAN 25

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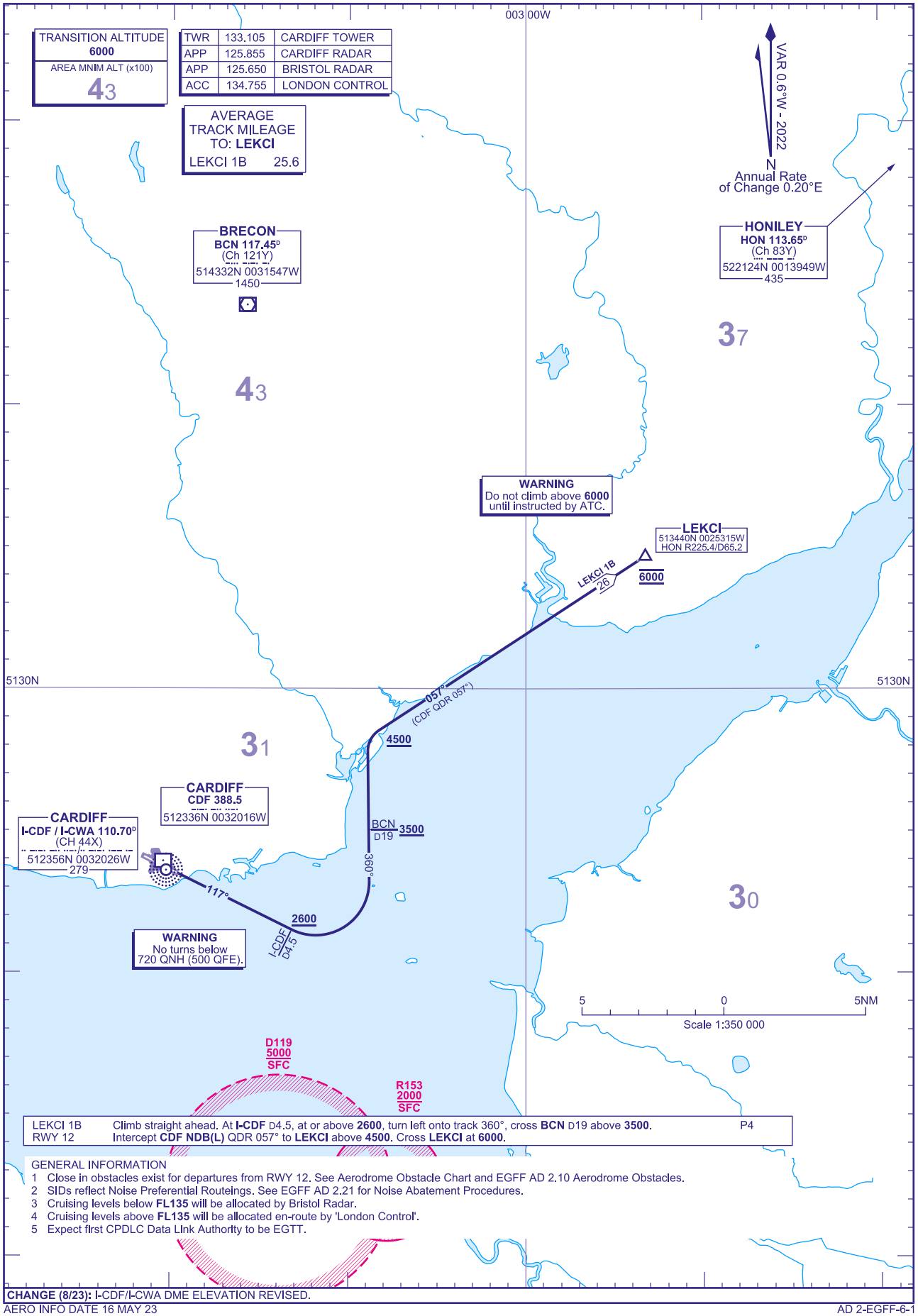
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

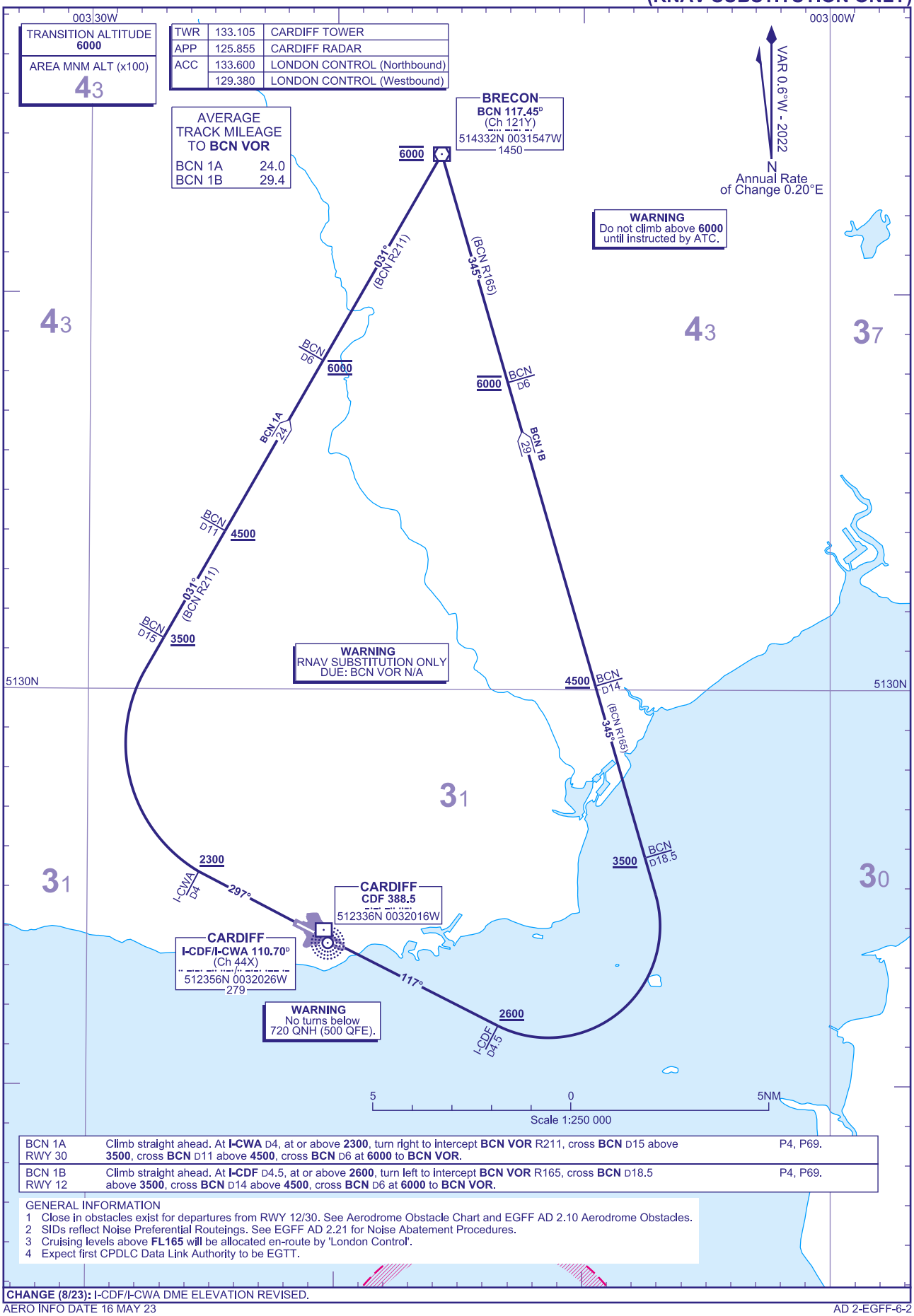
CARDIFF
LEKCI 1B



STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF
BCN 1A 1B
(RNAV SUBSTITUTION ONLY)



BCN 1A RWY 30	Climb straight ahead. At **I-CWA** D4, at or above **2300**, turn right to intercept **BCN VOR** R211, cross **BCN** D15 above **3500**, cross **BCN** D11 above **4500**, cross **BCN** D6 at **6000** to **BCN VOR**.	P4, P69.
BCN 1B RWY 12	Climb straight ahead. At **I-CDF** D4.5, at or above **2600**, turn left to intercept **BCN VOR** R165, cross **BCN** D18.5 above **3500**, cross **BCN** D14 above **4500**, cross **BCN** D6 at **6000** to **BCN VOR**.	P4, P69.

GENERAL INFORMATION
1 Close in obstacles exist for departures from RWY 12/30. See Aerodrome Obstacle Chart and EGFF AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGFF AD 2.21 for Noise Abatement Procedures.
3 Cruising levels above **FL165** will be allocated en-route by 'London Control'.
4 Expect first CPDLC Data Link Authority to be EGTT.

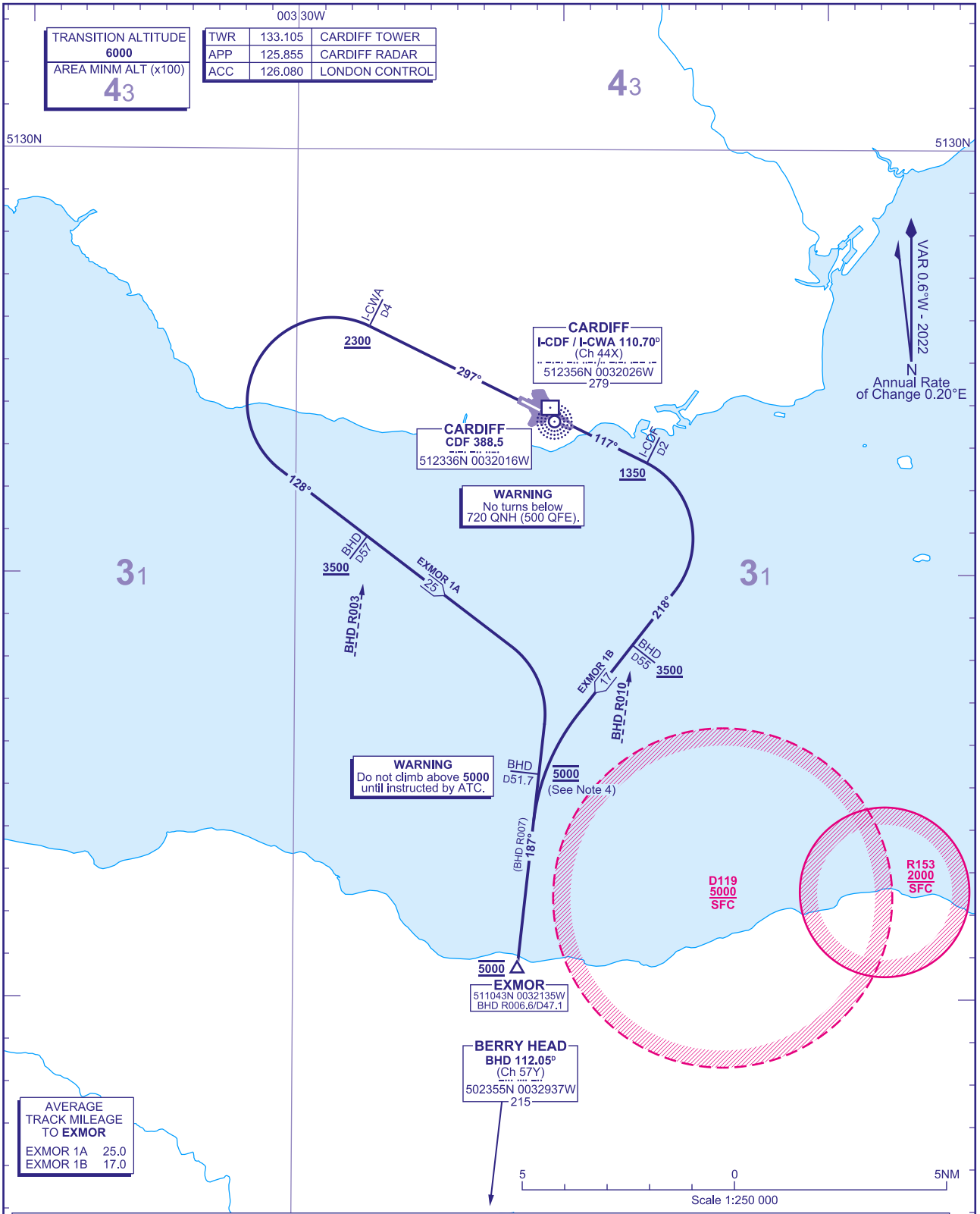
CHANGE (8/23): I-CDF/I-CWA DME ELEVATION REVISED.

AERO INFO DATE 16 MAY 23

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF
EXMOR 1A 1B



EXMOR 1A RWY 30	Climb straight ahead. At **I-CWA** D4, at or above **2300**, turn left onto track 128° to cross **BHD VOR** R003 above **3500**, intercept **BHD VOR** R007, to **EXMOR**. Cross **BHD** D51.7 at **5000**.	N40, N92.
EXMOR 1B RWY 12	Climb straight ahead. At **I-CDF** D2, at or above **1350**, turn right onto track 218° to cross **BHD VOR** R010 above **3500**, intercept **BHD VOR** R007, to **EXMOR**. Cross **BHD** D51.7 at **5000**.	N40, N92.

GENERAL INFORMATION
1 Close in obstacles exist for departures from RWY 12/30. See Aerodrome Obstacle Chart and EGFF AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGFF AD 2.21 for Noise Abatement Procedures.
3 Cruising levels above **FL165** will be allocated en-route by 'London Control'.
4 Pilots of aircraft which are unable to maintain climb gradients to achieve **5000** by **BHD** D51.7 must inform ATC for alternative clearance.
5 Expect first CPDLC Data Link Authority to be EGTT.

CHANGE (8/23): I-CDF/I-CWA DME ELEVATION REVISED.

AERO INFO DATE 16 MAY 23

AD 2-EGFF-6-3

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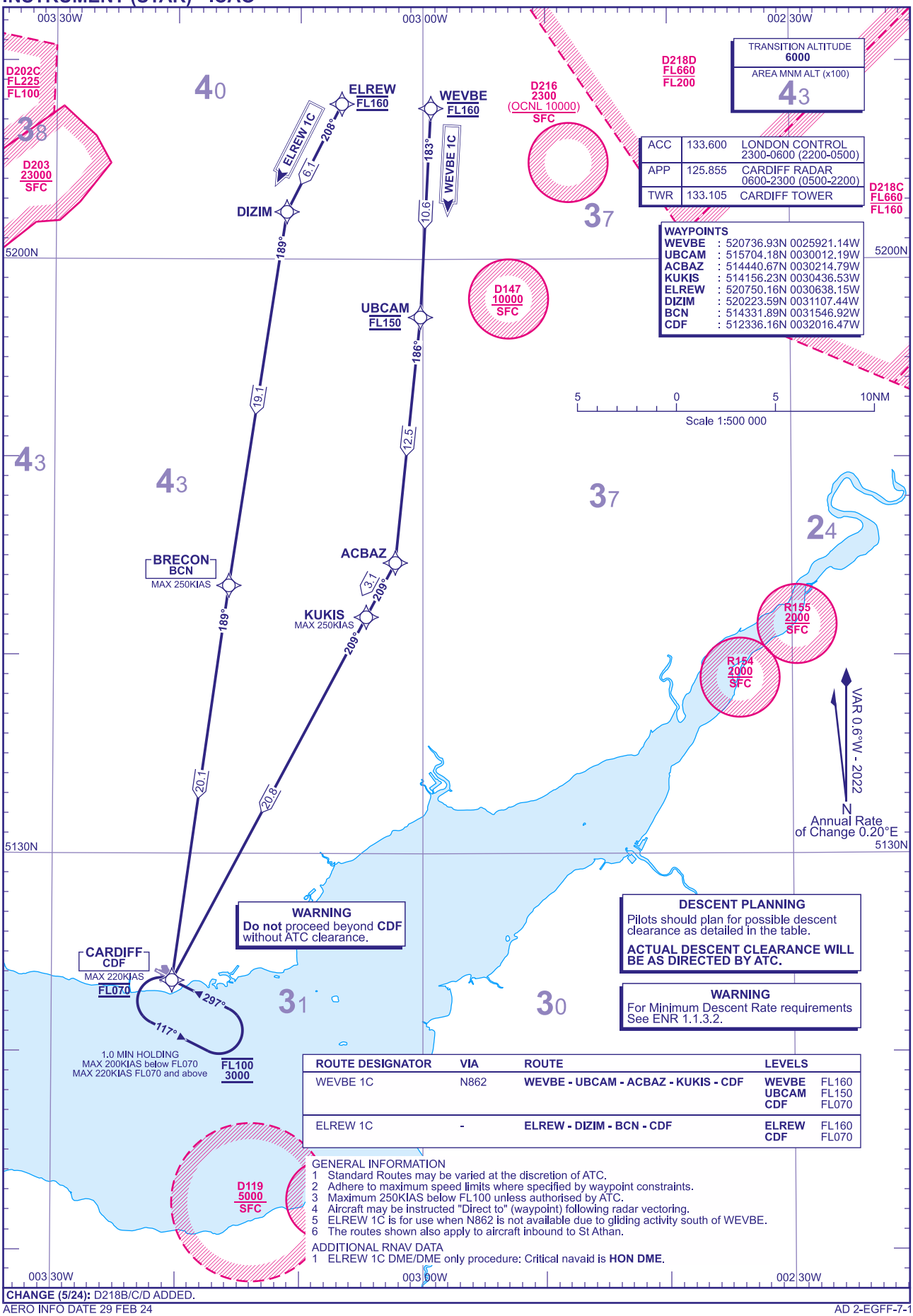
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF
WEVBE 1C ELREW 1C



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
WEVBE 1C	N862	WEVBE - UBCAM - ACBAZ - KUKIS - CDF	WEVBE UBCAM CDF	FL160 FL150 FL070
ELREW 1C	-	ELREW - DIZIM - BCN - CDF	ELREW CDF	FL160 FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 ELREW 1C is for use when N862 is not available due to gliding activity south of WEVBE.
6 The routes shown also apply to aircraft inbound to St Athan.

ADDITIONAL RNAV DATA
1 ELREW 1C DME/DME only procedure: Critical navaid is **HON DME**.

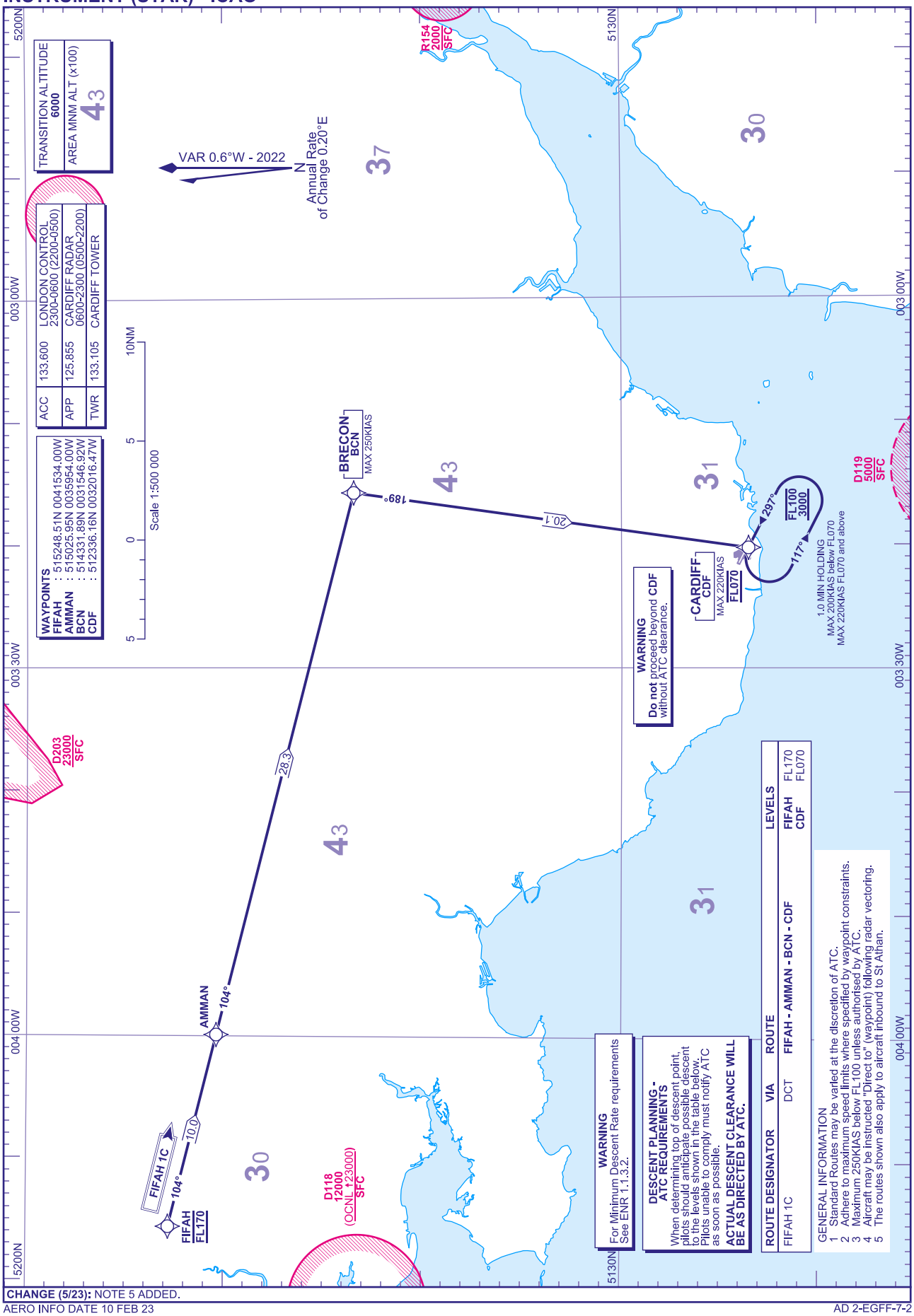
CHANGE (5/24): D218B/C/D ADDED.

AERO INFO DATE 29 FEB 24

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF FIFAH 1C



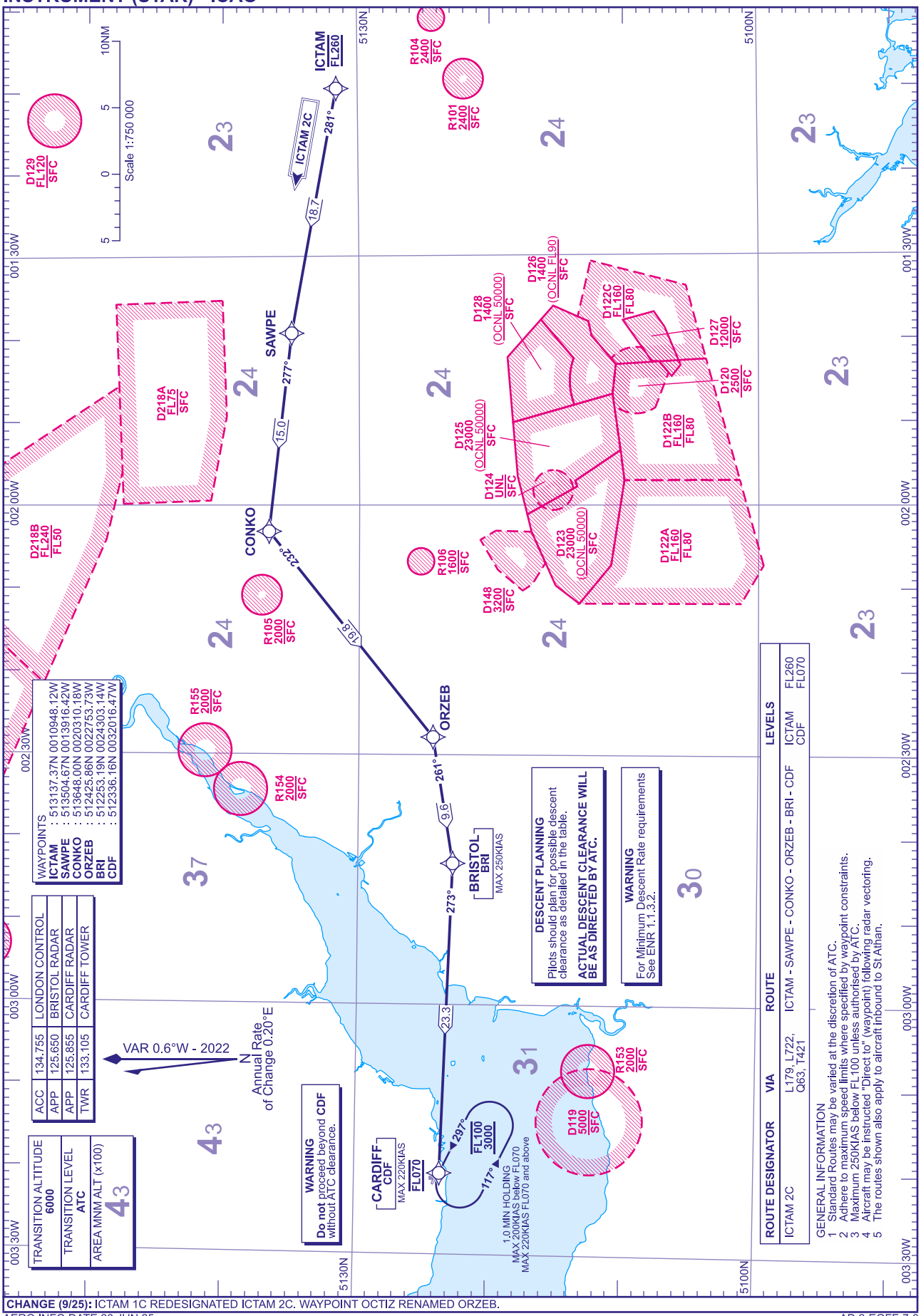
CHANGE (5/23): NOTE 5 ADDED.
AERO INFO DATE 10 FEB 23

AD 2-EGFF-7-2

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF ICTAM 2C



CHANGE (9/25): ICTAM 1C REDESIGNATED ICTAM 2C. WAYPOINT OCTIZ RENAMED ORZEB.

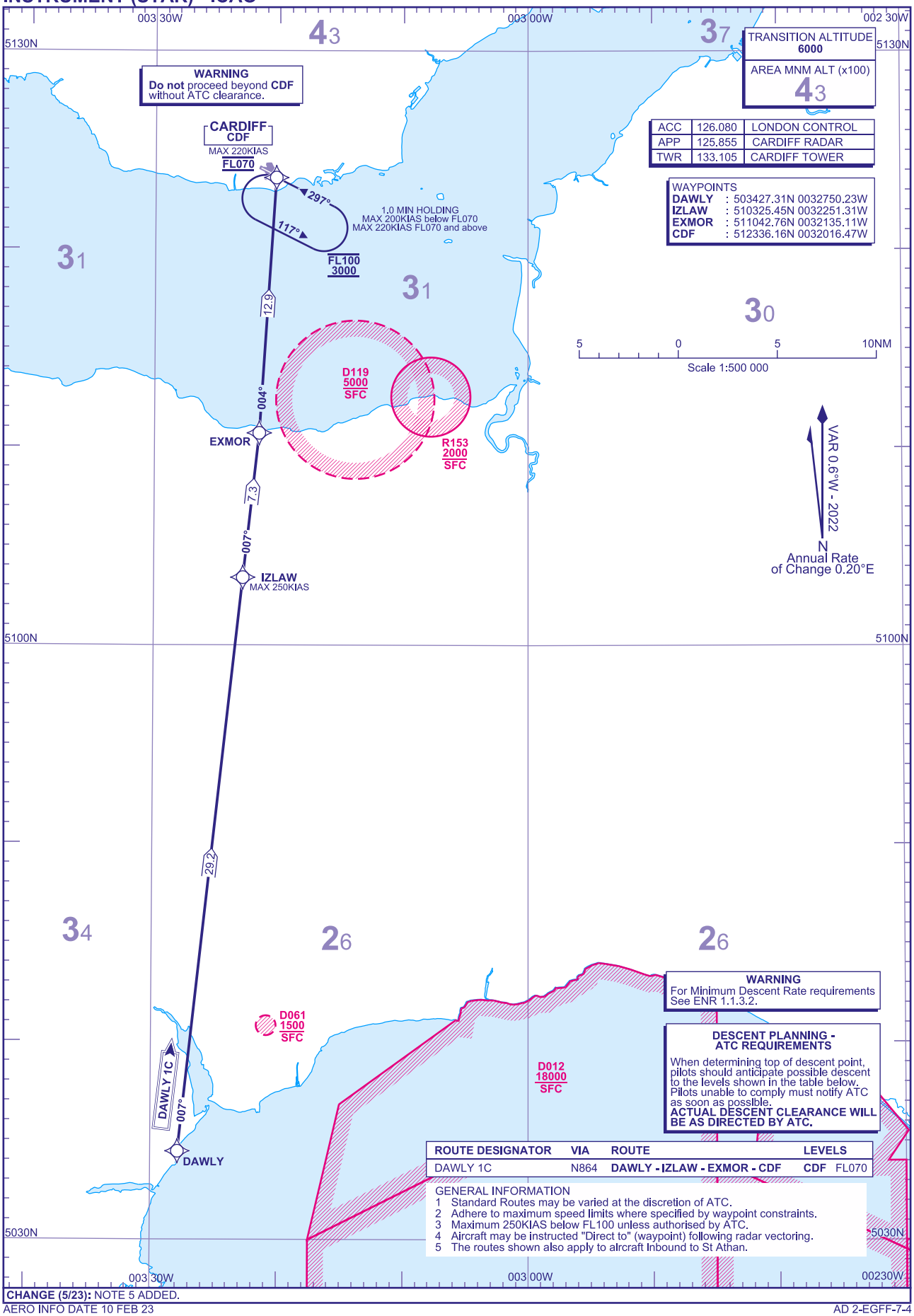
AERO INFO DATE 26 JUN 25

AD 2-EGFF-7-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF DAWLY 1C



CHANGE (5/23): NOTE 5 ADDED.

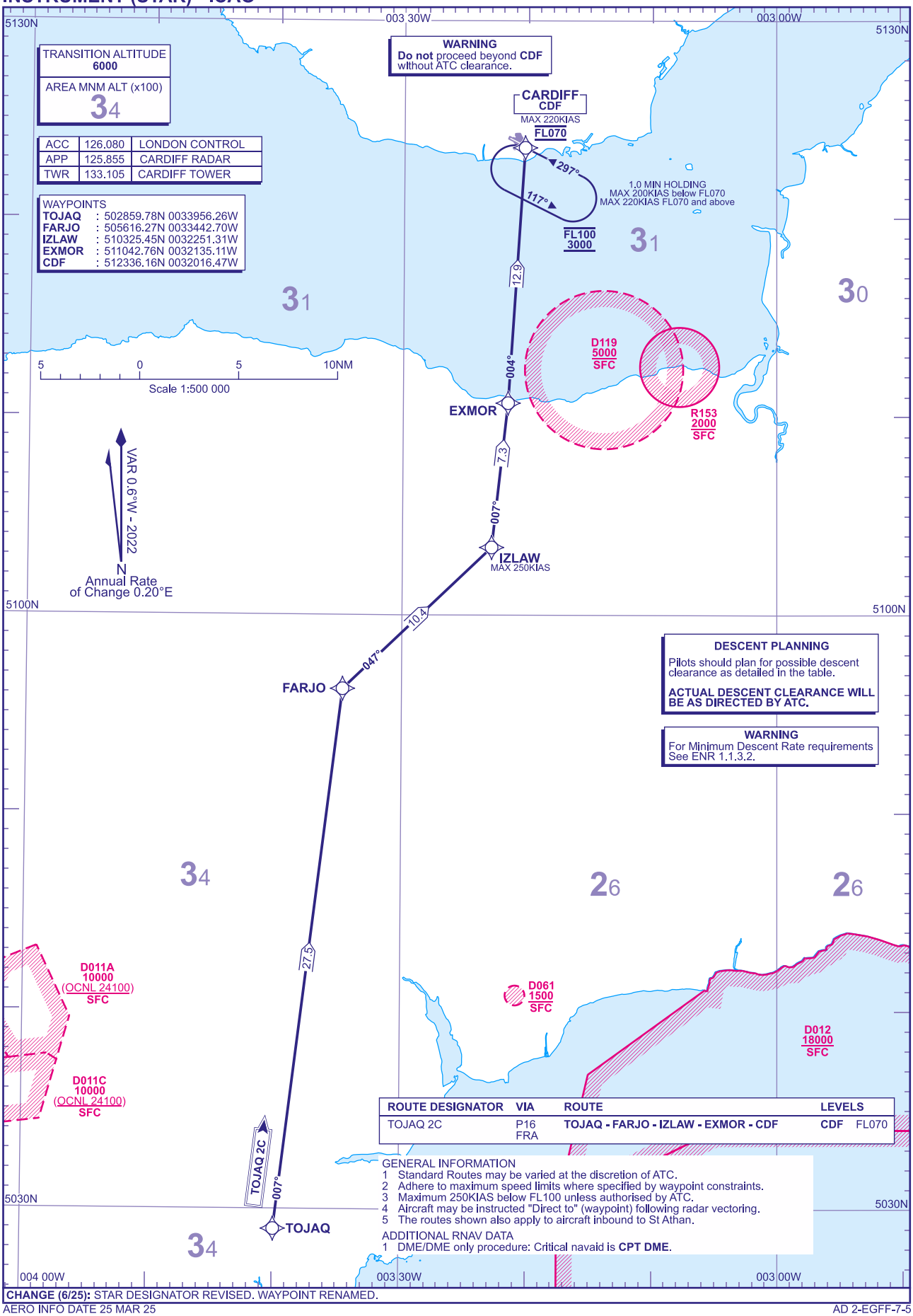
AERO INFO DATE 10 FEB 23

AD 2-EGFF-7-4

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF TOJAQ 2C



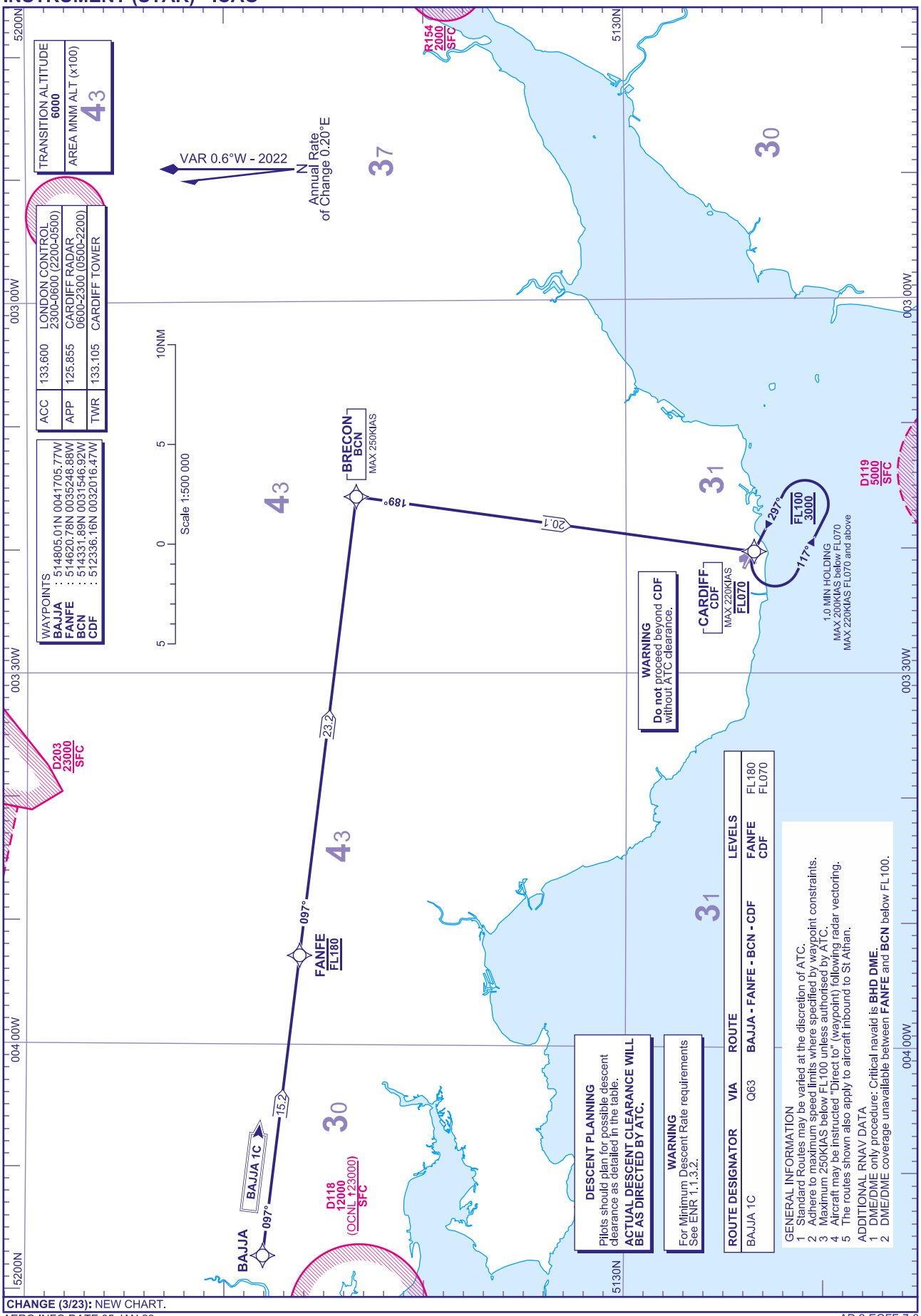
CHANGE (6/25): STAR DESIGNATOR REVISED. WAYPOINT RENAMED.

AERO INFO DATE 25 MAR 25

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

CARDIFF BAJJA 1C



CHANGE (3/23): NEW CHART.

AERO INFO DATE 05 JAN 23

AD 2-EGFF-7-6

Standard Instrument Arrival Coding Tables

CARDIFF WEVBE 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WEVBE1C	001	IF	WEVBE	520736.93N 0025921.14W	N	-	-	-	-	FL160	-	RNAV5
WEVBE1C	002	TF	UBCAM	515704.18N 0030012.19W	N	183° (182.9°)	-0.6	10.6	-	FL150	-	RNAV5
WEVBE1C	003	TF	ACBAZ	514440.67N 0030214.79W	N	186° (185.8°)	-0.6	12.5	RIGHT	-	-	RNAV5
WEVBE1C	004	TF	KUKIS	514156.23N 0030436.53W	N	209° (208.2°)	-0.6	3.1	-	-	-250	RNAV5
WEVBE1C	005	TF	CDF	512336.16N 0032016.47W	N	209° (208.2°)	-0.6	20.8	-	FL070	-220	RNAV5

CARDIFF ELREW 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ELREW1C	001	IF	ELREW	520750.16N 0030638.15W	N	-	-	-	-	FL160	-	RNAV5
ELREW1C	002	TF	DIZIM	520223.59N 0031107.44W	N	208° (207.0°)	-0.6	6.1	LEFT	-	-	RNAV5
ELREW1C	003	TF	BCN	514331.89N 0031546.92W	N	189° (188.7°)	-0.6	19.1	-	-	-250	RNAV5
ELREW1C	004	TF	CDF	512336.16N 0032016.47W	N	189° (188.0°)	-0.6	20.1	-	FL070	-220	RNAV5

CARDIFF FIFAH 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FIFAH1C	001	IF	FIFAH	515248.51N 0041534.00W	N	-	-	-	-	FL170	-	RNAV5
FIFAH1C	002	TF	AMMAN	515025.95N 0035954.00W	N	104° (103.7°)	-0.6	10.0	-	-	-	RNAV5
FIFAH1C	003	TF	BCN	514331.89N 0031546.92W	N	104° (103.9°)	-0.6	28.3	RIGHT	-	-250	RNAV5
FIFAH1C	004	TF	CDF	512336.16N 0032016.47W	N	189° (188.0°)	-0.6	20.1	-	FL070	-220	RNAV5

CHANGE (3/23): PAGE RENUMBERED.
AERO INFO DATE 05 JAN 23

Standard Instrument Arrival Coding Tables

CARDIFF ICTAM 2C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ICTAM2C	001	IF	ICTAM	513137.37N 0010948.12W	N	-	-	-	-	FL260	-	RNAV5
ICTAM2C	002	TF	SAWPE	513504.67N 0013916.42W	N	281° (280.8°)	-0.6	18.7	-	-	-	RNAV5
ICTAM2C	003	TF	CONKO	513648.00N 0020310.18W	N	277° (276.8°)	-0.6	15.0	LEFT	-	-	RNAV5
ICTAM2C	004	TF	ORZEB	512425.86N 0022753.73W	N	232° (231.4°)	-0.6	19.8	RIGHT	-	-	RNAV5
ICTAM2C	005	TF	BRI	512253.19N 0024303.14W	N	261° (260.8°)	-0.6	9.6	RIGHT	-	-250	RNAV5
ICTAM2C	006	TF	CDF	512336.16N 0032016.47W	N	273° (272.0°)	-0.6	23.3	-	FL070	-220	RNAV5

CARDIFF DAWLY 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DAWLY1C	001	IF	DAWLY	503427.31N 0032750.23W	N	-	-	-	-	-	-	RNAV5
DAWLY1C	002	TF	IZLAW	510325.45N 0032251.31W	N	007° (006.2°)	-0.6	29.2	-	-	-250	RNAV5
DAWLY1C	003	TF	EXMOR	511042.76N 0032135.11W	N	007° (006.3°)	-0.6	7.3	LEFT	-	-	RNAV5
DAWLY1C	004	TF	CDF	512336.16N 0032016.47W	N	004° (003.6°)	-0.6	12.9	-	FL070	-220	RNAV5

CHANGE (9/25): ICTAM 1C REDESIGNATED ICTAM 2C. WAYPOINT OCTIZ RENAMED ORZEB.
AERO INFO DATE 26 JUN 25

Standard Instrument Arrival Coding Tables

CARDIFF TOJAQ 2C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TOJAQ2C	001	IF	TOJAQ	502859.78N 0033956.26W	N	-	-	-	-	-	-	RNAV1
TOJAQ2C	002	TF	FARJO	505616.27N 0033442.70W	N	007° (006.9°)	-0.6	27.5	RIGHT	-	-	RNAV1
TOJAQ2C	003	TF	IZLAW	510325.45N 0032251.31W	N	047° (046.2°)	-0.6	10.4	LEFT	-	-250	RNAV1
TOJAQ2C	004	TF	EXMOR	511042.76N 0032135.11W	N	007° (006.3°)	-0.6	7.3	-	-	-	RNAV1
TOJAQ2C	005	TF	CDF	512336.16N 0032016.47W	N	004° (003.6°)	-0.6	12.9	-	FL070	-220	RNAV1

CARDIFF BAJJA 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BAJJA1C	001	IF	BAJJA	514805.01N 0041705.77W	N	-	-	-	-	-	-	RNAV1
BAJJA1C	002	TF	FANFE	514620.78N 0035248.88W	N	097° (096.4°)	-0.6	15.2	-	FL180	-	RNAV1
BAJJA1C	003	TF	BCN	514331.89N 0031546.92W	N	097° (096.7°)	-0.6	23.2	RIGHT	-	-250	RNAV1
BAJJA1C	004	TF	CDF	512336.16N 0032016.47W	N	189° (188.0°)	-0.6	20.1	-	FL070	-220	RNAV1

CHANGE (6/25): STAR DESIGNATOR REVISED. WAYPOINT RENAMED.
AERO INFO DATE 25 MAR 25

RNAV Hold Coding Tables

CARDIFF CDF Hold

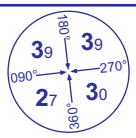
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CDF	-	-	CDF	512336.16N 0032016.47W	Y	297° (296.8°)	-0.6	1 MIN	LEFT	-FL100 +3000	-200* -220**	RNAV1/ RNAV5

*below FL070
**FL070 and above

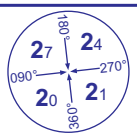
CHANGE (3/23): PAGE RENUMBERED. NAVIGATION PERFORMANCE.
AERO INFO DATE 05 JAN 23

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
ILS/DME/NDB(L) RWY 12
(ACFT CAT A,B,C,D)



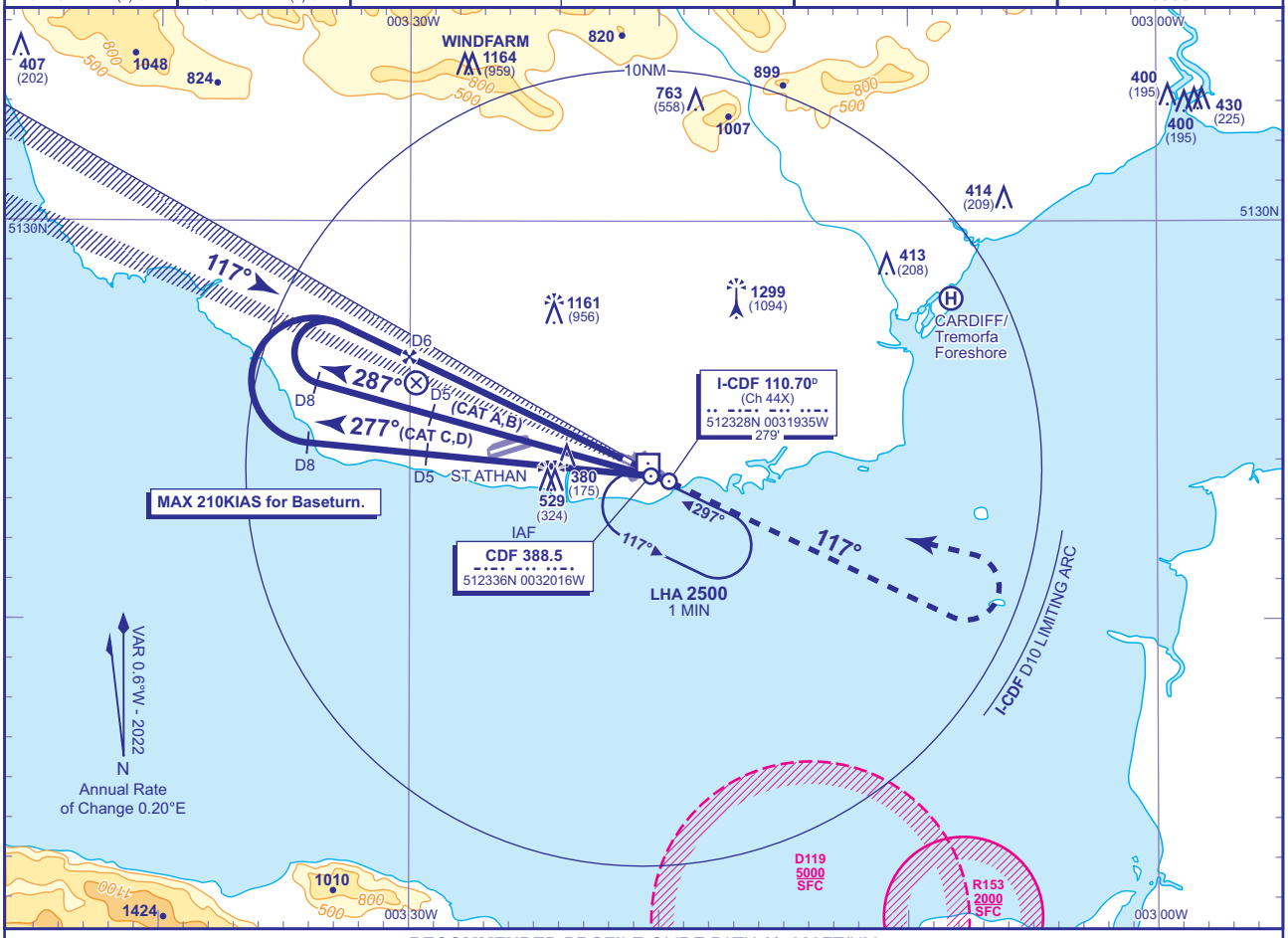
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220
TWR 133.105	CARDIFF TOWER	THR ELEVATION	205
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION 1299 AMSL (1094) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

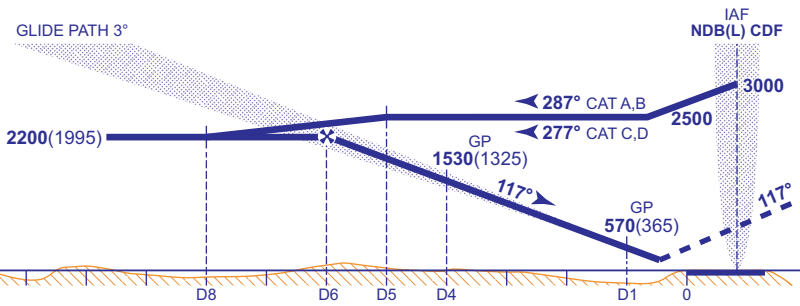
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-CDF	5	4	3	2	1
ALT(HGT)	**1850**(1645)	**1530**(1325)	**1210**(1005)	**890**(685)	**570**(365)

RDH 50



Climb straight ahead. On reaching **3000** or **I-CDF DME** 2 outbound (CAT A,B) or **I-CDF DME** 4 (CAT C,D) outbound whichever is the later, turn left to return to **NDB(L) CDF** at **3000**. **(See Note 2)**

DME I-CDF zero ranged to THR RWY 12

Aircraft Category		A	B	C	D
OCA (OCH)	**CAT I**	**350**(145)	**360**(155)	**373**(168)	**386**(181)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(460)	**820**(600)	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**680**(460)	**820**(600)	**920**(700)	**920**(700)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-CDF
Advise ATC. Radar ranges will be provided at 5NM and 8NM outbound and at 6NM and 4NM inbound.

NOTE 1 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CDF may descend to **3000** after passing I-CDF DME 10.
2 Aircraft to remain within I-CDF DME 10 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

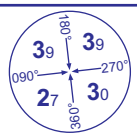
CHANGE (8/23): I-CDF DME ELEVATION REVISED.

AERO INFO DATE 16 MAY 23

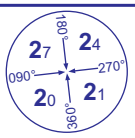
AD 2-EGFF-8-1

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
LOC/DME/NDB(L)
RWY 12
(ACFT CAT A,B,C,D)



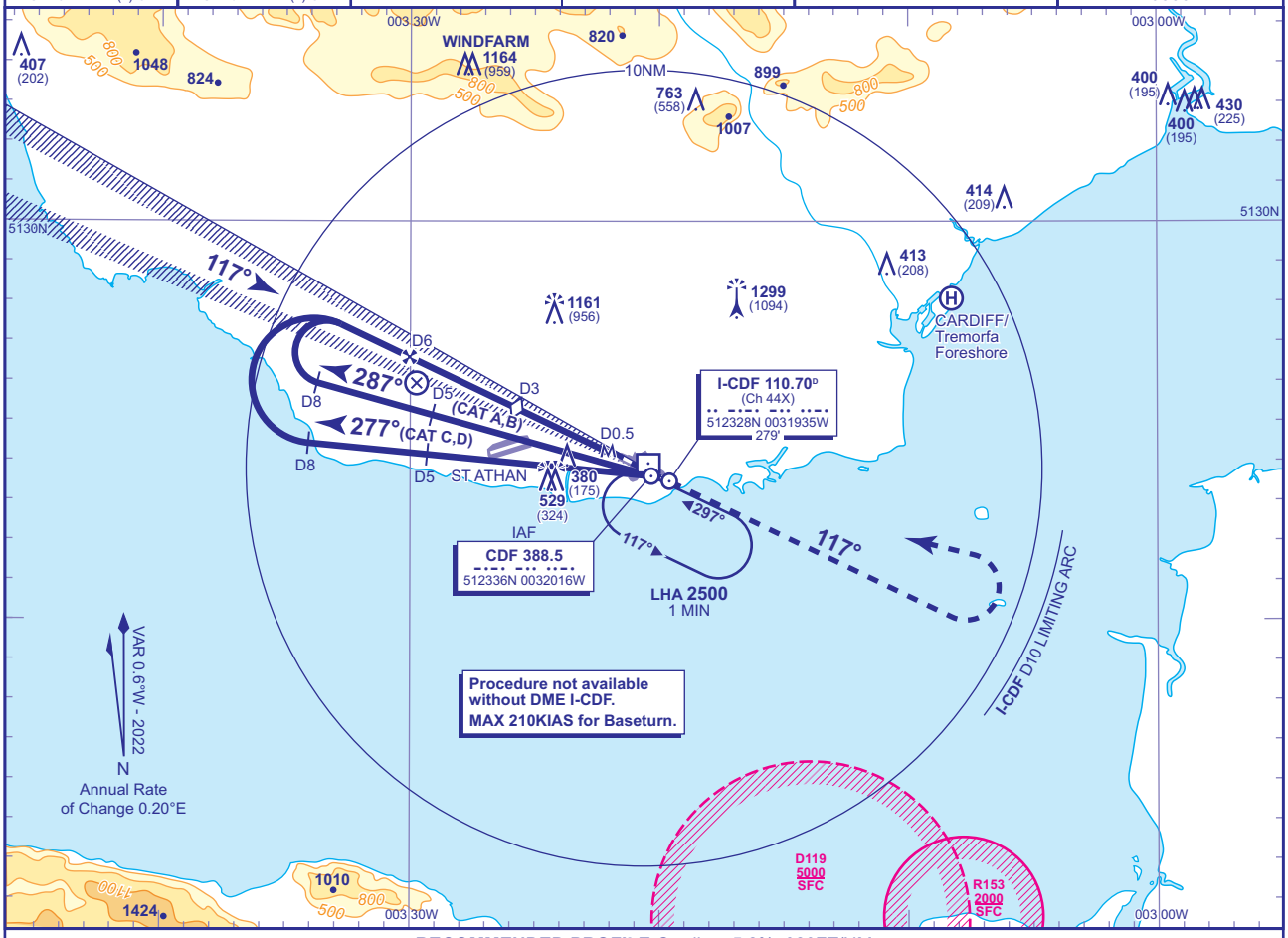
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

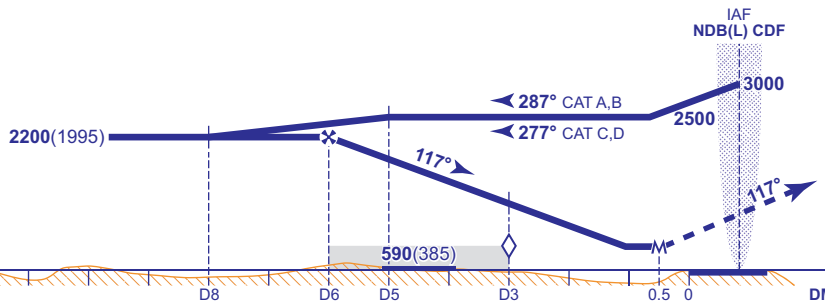
APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	**220**
TWR 133.105	CARDIFF TOWER	THR ELEVATION	**205**
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION **1299 AMSL** (1094) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-CDF	5	4	3 **(SDF)**	2	1
ALT(HGT)	**1850**(1645)	**1530**(1325)	**1210**(1005)	**890**(685)	**570**(365)



MAPt I-CDF DME 0.5 inbound

Climb straight ahead. On reaching **3000** or **I-CDF DME** 2 outbound (CAT A,B) or **I-CDF DME** 4 (CAT C,D) outbound whichever is the later, turn left to return to **NDB(L) CDF** at **3000**. **(See Note 2)**

DME I-CDF zero ranged to THR RWY 12

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**470**(265)	**470**(265)	**510**(305)	**510**(305)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(460)	**820**(600)	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**680**(460)	**820**(600)	**920**(700)	**920**(700)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CDF may descend to **3000** after passing I-CDF DME 10.
2 Aircraft to remain within I-CDF DME 10 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

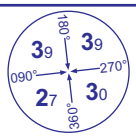
CHANGE (8/23): I-CDF DME ELEVATION REVISED.

AERO INFO DATE 16 MAY 23

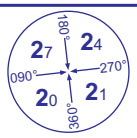
AD 2-EGFF-8-2

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
SRA RTR 2NM
RWY 12
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220
TWR 133.105	CARDIFF TOWER	THR ELEVATION	205
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION 1299 AMSL (1094) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

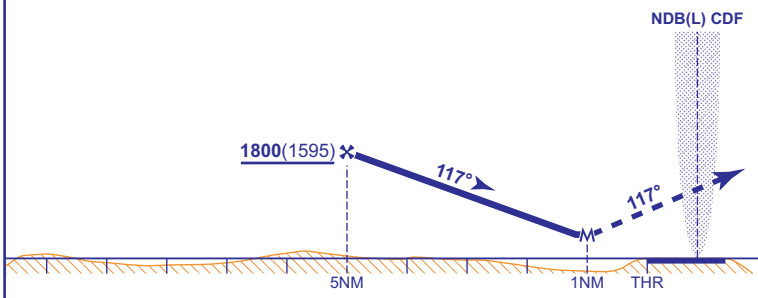
TRANSITION ALTITUDE **6000**



RADAR ADVISORY HEIGHTS Gradient 5.2%, 320FT/NM

NM	5.0	4.0	3.0	2.0
ALT(HGT)	**1800**(1595)	**1480**(1275)	**1160**(955)	**840**(635)

Initial and intermediate approach as directed by radar.



MAPt 1NM after RTR

Climb straight ahead. On reaching **3000** or 1 MIN after passing **NDB(L) CDF**, whichever is the later, turn left to return to **NDB(L) CDF** at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**770**(565)	**770**(565)	**770**(565)	**770**(565)
VM(C)OCA (OCH AAL)	Total Area	**680**(460)	**820**(600)	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**680**(460)	**820**(600)	**920**(700)	**920**(700)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	430
RTR to MAPT	MIN:SEC	0:22	0:25	0:30	0:36	0:45

NOTE Radar Ranges measured to touchdown.

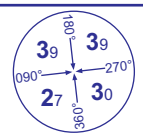
CHANGE (8/21): APP, TWR, RAD FREQUENCIES REVISED.

AERO INFO DATE 17 MAY 21

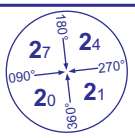
AD 2-EGFF-8-3

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
RNP
RWY 12
(ACFT CAT A,B,C,D)

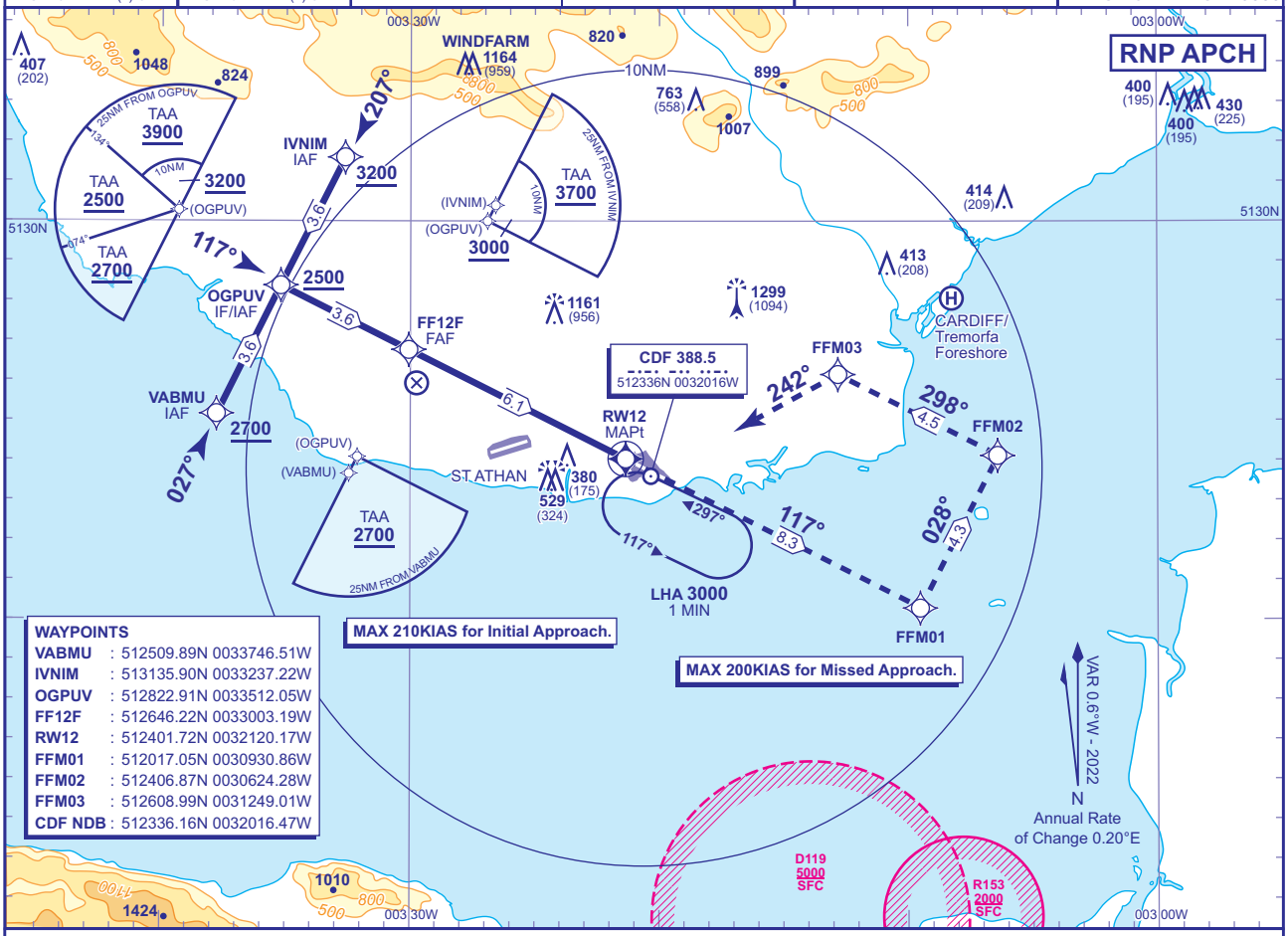


MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP	119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220	MIN TEMP -10°C
TWR	133.105	CARDIFF TOWER	THR ELEVATION	205	TRANSITION ALTITUDE 6000
RAD	125.855	CARDIFF RADAR	OBSTACLE ELEVATION 1299 AMSL (1094) (ABOVE THR)		
	119.155 (LARS)				
ATIS	132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC		



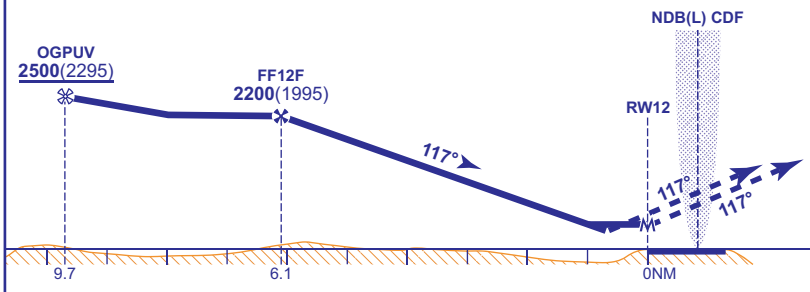
WAYPOINTS

VABMU	: 512509.89N 0033746.51W
IVNIM	: 513135.90N 0033237.22W
OGPUV	: 512822.91N 0033512.05W
FF12F	: 512646.22N 0033003.19W
RW12	: 512401.72N 0032120.17W
FFM01	: 512017.05N 0030930.86W
FFM02	: 512406.87N 0030624.28W
FFM03	: 512608.99N 0031249.01W
CDF NDB	: 512336.16N 0032016.47W

RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.0° (LNAV 5.2%), 320FT/NM

NM to RW12	6	5	4	3	2	1
ALT(HGT)	**2170**(1965)	**1850**(1645)	**1530**(1325)	**1210**(1005)	**890**(685)	**570**(365)

TCH 50



MAPt (LNAV): RW12
Climb to **3000**, straight ahead to **FFM01**, then turn left to **FFM02**, then turn left to **FFM03**, then turn left to **CDF NDB(L)** to join the hold at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV	**590**(385)	**590**(385)	**590**(385)	**590**(385)
	LNAV/VNAV	**460**(255)	**470**(265)	**480**(275)	**490**(285)
VM(C)OCA (OCH AAL)	Total Area	**680**(460)	**820**(600)	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**680**(460)	**820**(600)	**920**(700)	**920**(700)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

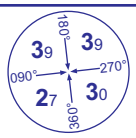
NOTE **NDB(L) CDF** required for missed approach hold.

CHANGE (12/21): EGNOS AND LPV REMOVED.

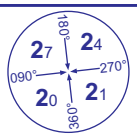
AERO INFO DATE 23 JUL 21 AD 2-EGFF-8-4

INSTRUMENT APPROACH CHART - ICAO

CARDIFF NDB(L)/DME RWY 12
(ACFT CAT A,B,C,D)



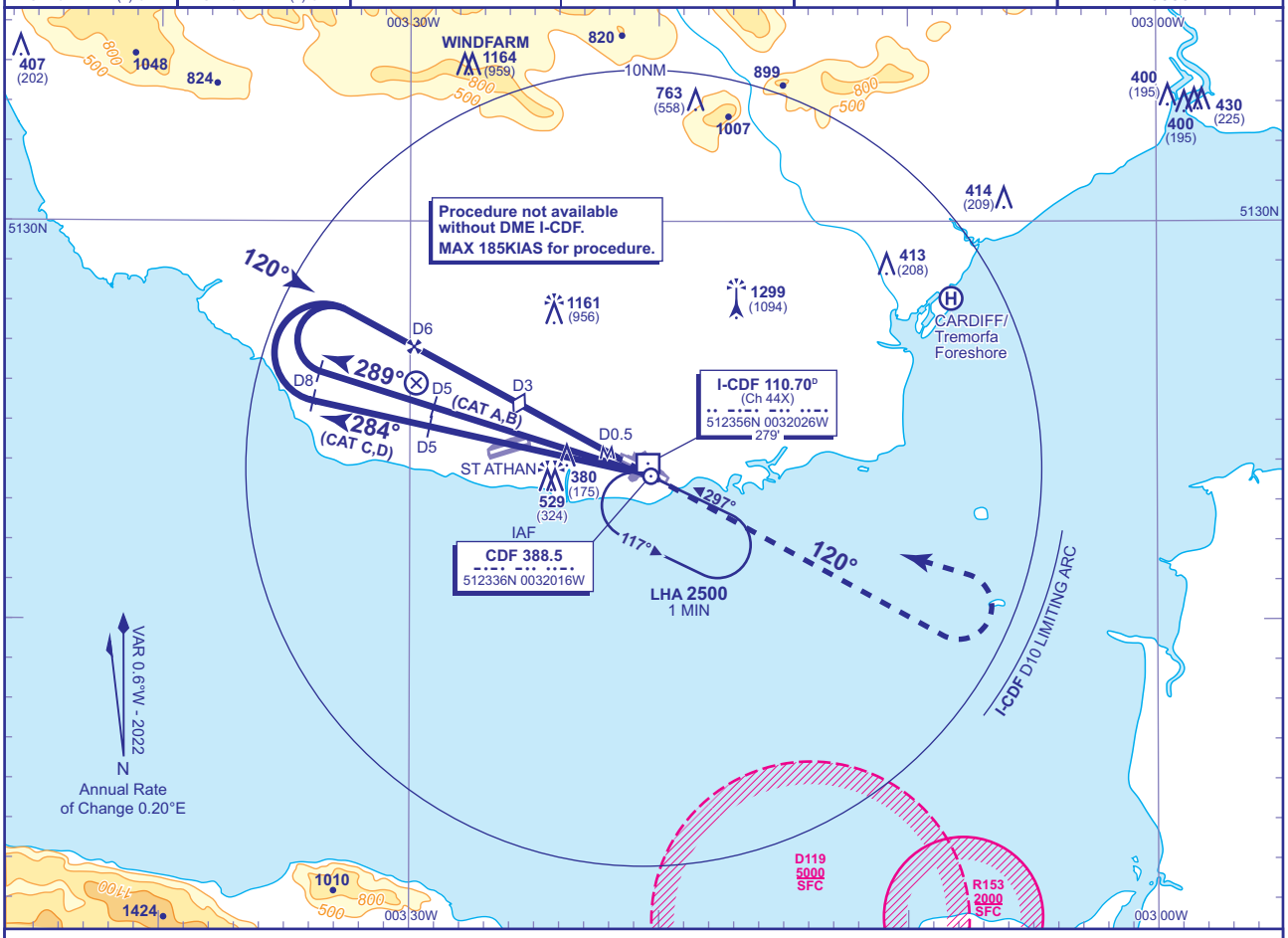
MSA 25NM NDB(L) CDF



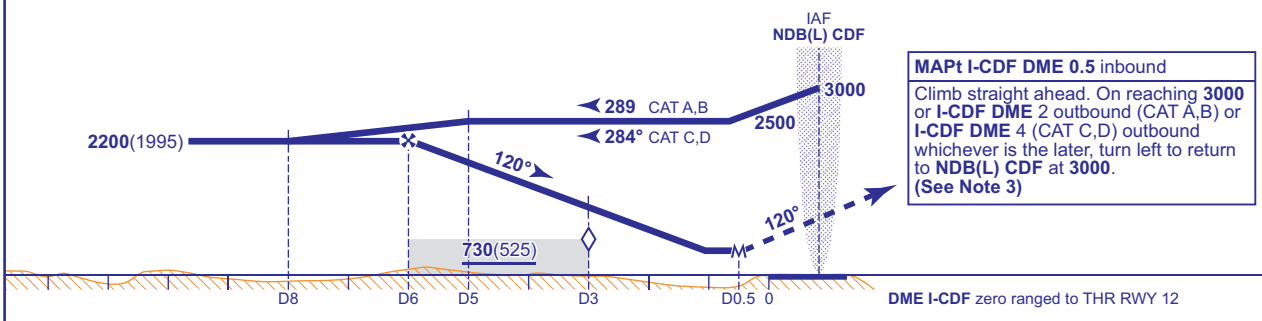
MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220
TWR 133.105	CARDIFF TOWER	THR ELEVATION	205
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION 1299 AMSL (1094) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.3%, 320FT/NM				
DME I-CDF	5	4	3 **(SDF)**	2
ALT(HGT)	**1880**(1675)	**1550**(1345)	**1230**(1025)	**900**(695)



MAPt I-CDF DME 0.5 inbound

Climb straight ahead. On reaching **3000** or **I-CDF DME** 2 outbound (CAT A,B) or **I-CDF DME** 4 (CAT C,D) outbound whichever is the later, turn left to return to **NDB(L) CDF** at **3000**. **(See Note 3)**

DME I-CDF zero ranged to THR RWY 12

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**630**(425)	**630**(425)	**630**(425)	**630**(425)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(460)	**820**(600)	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**680**(460)	**820**(600)	**920**(700)	**920**(700)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	760	650	540	430

NOTE 1 FAT offset 2° and nominally intercepts RWY C/L 1.2NM before THR.
2 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CDF may descend to **3000** after passing I-CDF DME 10.
3 Aircraft to remain within I-CDF DME 10 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

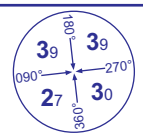
CHANGE (8/23): I-CDF DME ELEVATION REVISED.

AERO INFO DATE 16 MAY 23

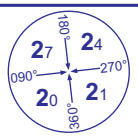
AD 2-EGFF-8-5

INSTRUMENT APPROACH CHART - ICAO

CARDIFF ILS/DME/ NDB(L) y RWY 30 (ACFT CAT A,B)



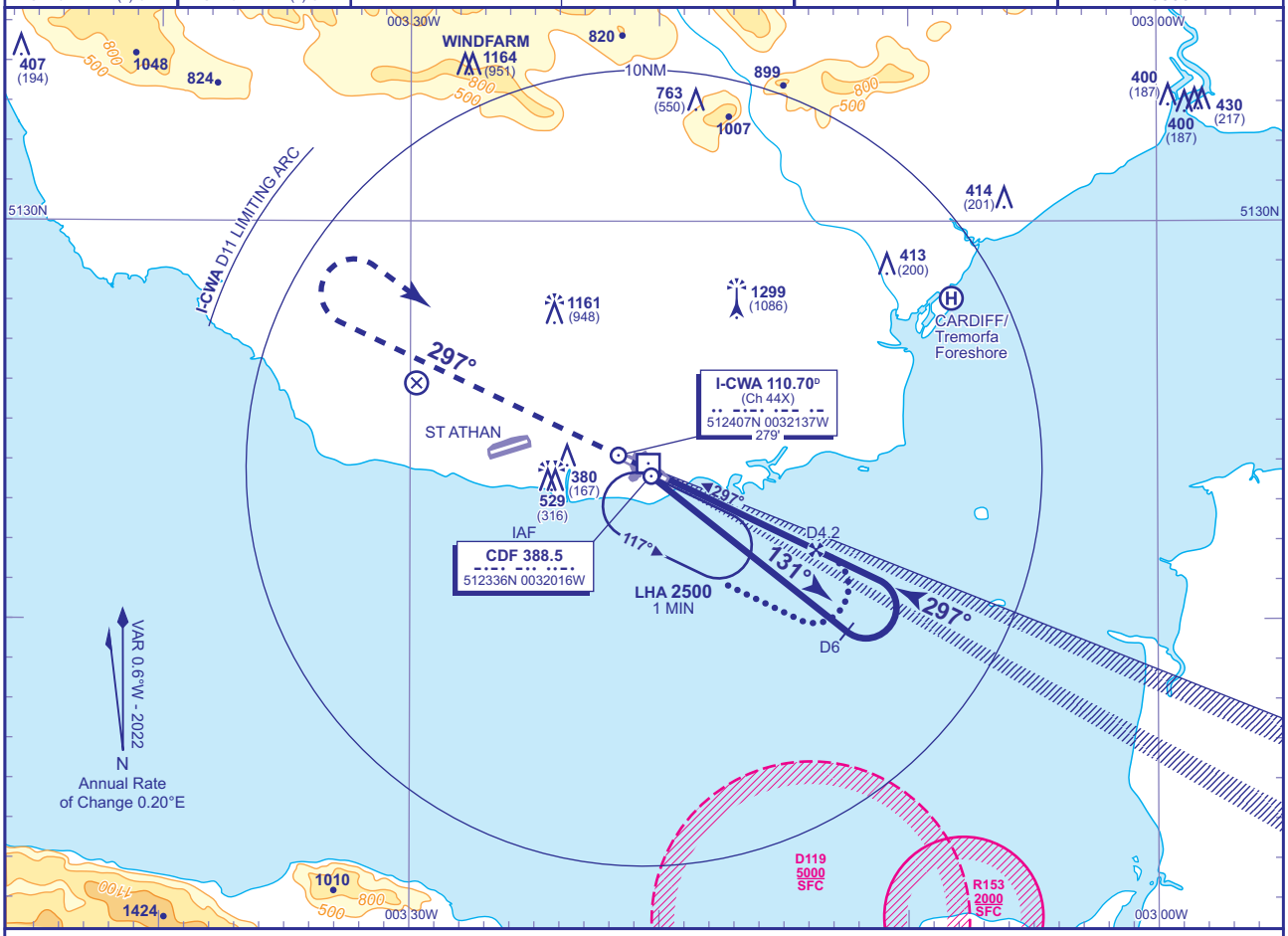
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	**220**
TWR 133.105	CARDIFF TOWER	THR ELEVATION	**213**
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION **1299 AMSL** (1086) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

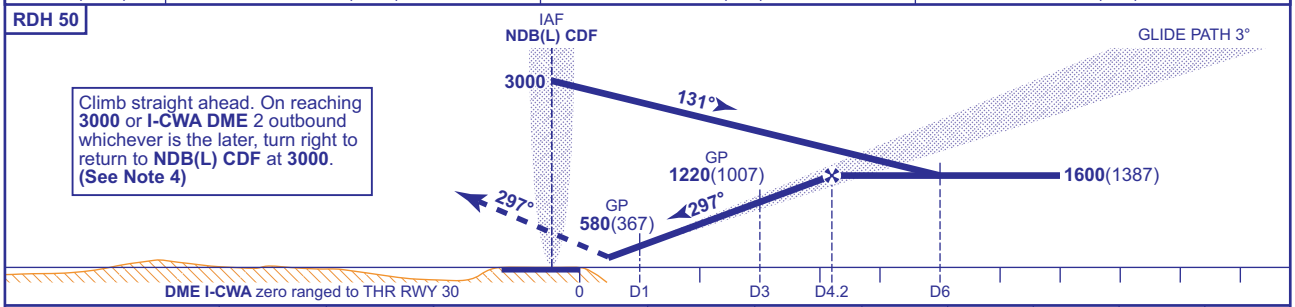


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-CWA	3	2	1
ALT(HGT)	**1220**(1007)	**900**(687)	**580**(367)

RDH 50

Climb straight ahead. On reaching **3000** or **I-CWA DME** 2 outbound whichever is the later, turn right to return to **NDB(L) CDF** at **3000**. **(See Note 4)**



Aircraft Category		A	B
OCA (OCH)	**CAT I**	**378**(165)	**388**(175)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(460)	**820**(600)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of the NDB(L) CDF holding pattern to I-CWA DME 5 descending to **1600**(1387) then proceed as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-CWA
Advise ATC. As for main and alternative procedures except fly outbound leg for 2.5 MIN and when established descend to DH. Radar ranges will be provided at 6NM outbound and at 4NM and 2NM inbound.

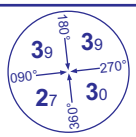
NOTE 1 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CWA may descend to **3000** after passing I-CWA DME 10.
2 ATC will authorise crossing of EG D119 before start of procedure.
3 Timed procedure not available without radar monitoring.
4 Aircraft to remain within I-CWA DME 11 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

CHANGE (8/23): I-CWA DME ELEVATION REVISED.

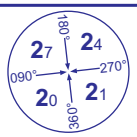
AERO INFO DATE 16 MAY 23 AD 2-EGFF-8-6

INSTRUMENT APPROACH CHART - ICAO

CARDIFF ILS/DME/ NDB(L) z RWY 30
(ACFT CAT C,D)



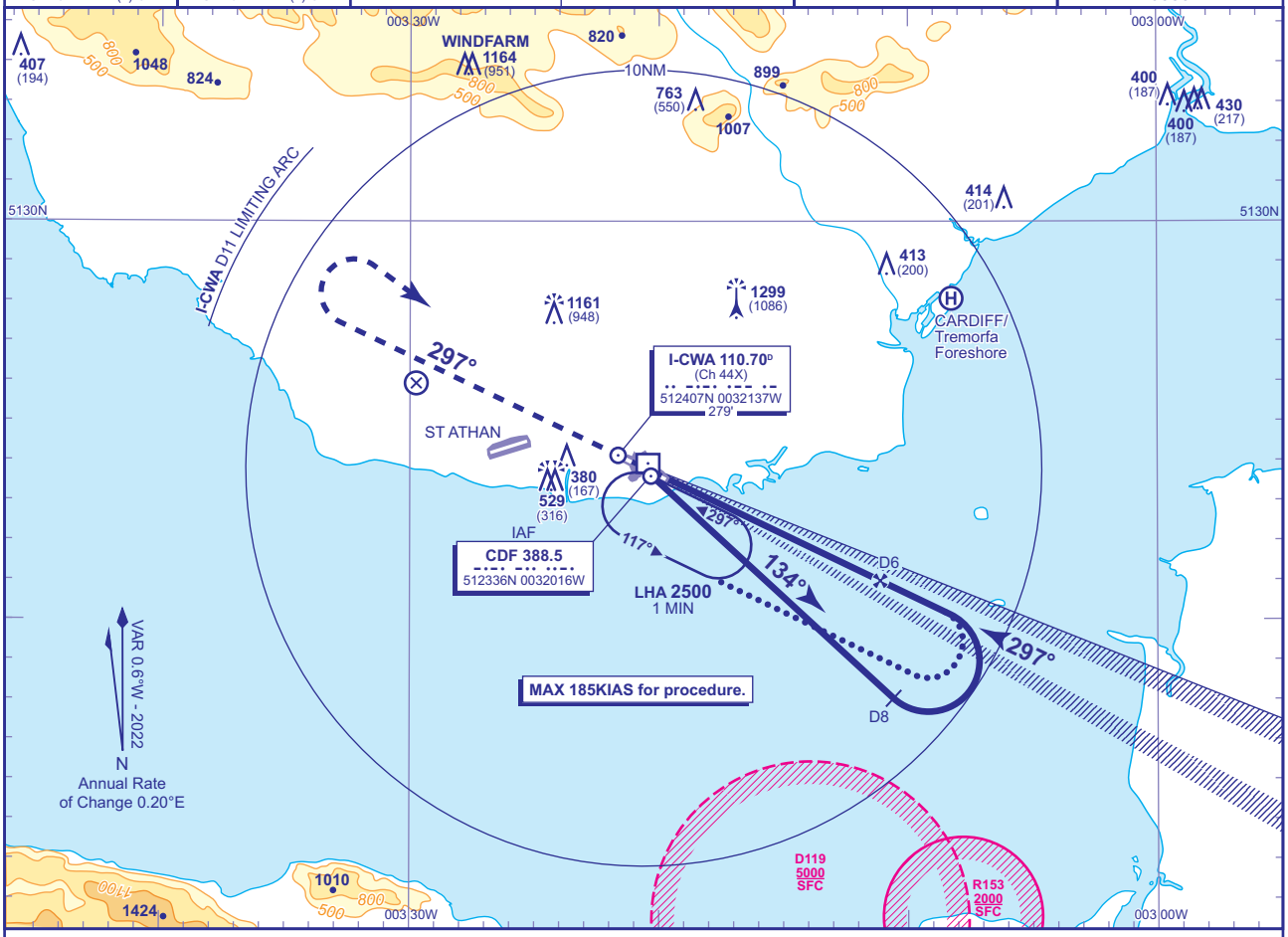
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP	119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220	
TWR	133.105	CARDIFF TOWER	THR ELEVATION	213	
RAD	125.855	CARDIFF RADAR	OBSTACLE ELEVATION		
	119.155 (LARS)		1299 AMSL (1086) (ABOVE THR)		
ATIS	132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**

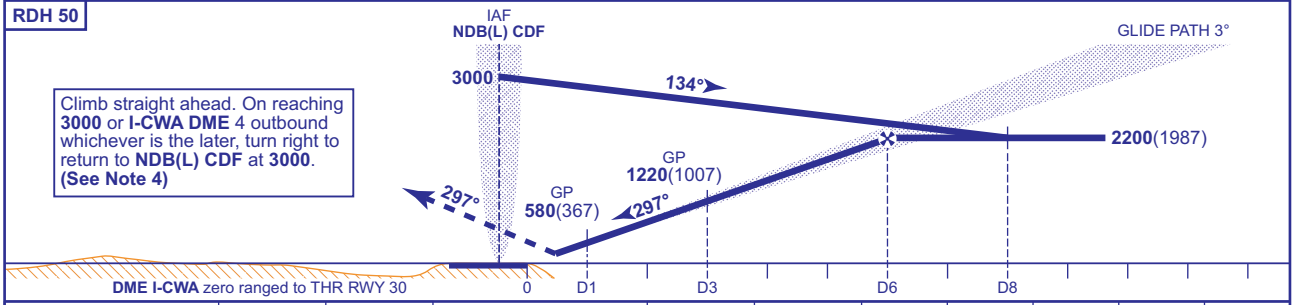


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-CWA	5	4	3	2	1
ALT(HGT)	**1860**(1647)	**1540**(1327)	**1220**(1007)	**900**(687)	**580**(367)

RDH 50

Climb straight ahead. On reaching **3000** or **I-CWA DME** 4 outbound whichever is the later, turn right to return to **NDB(L) CDF** at **3000**. **(See Note 4)**



Aircraft Category		C	D
OCA(OCH)	CAT I	**400**(187)	**411**(198)
VM(C)OCA (OCH AAL)	Total Area	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**920**(700)	**920**(700)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of the NDB(L) CDF holding pattern to I-CWA DME 8 descending to **2200**(1987) then proceed as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-CWA
Advise ATC. As for main and alternative procedures except fly outbound leg for 2.5 MIN and when established descend to DH. Radar ranges will be provided at 8NM outbound and at 6NM inbound.

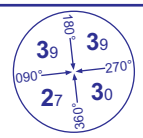
NOTE 1 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CWA may descend to **3000** after passing I-CWA DME 10.
2 ATC will authorise crossing of EG D119 before start of procedure.
3 Timed procedure not available without radar monitoring.
4 Aircraft to remain within I-CWA DME 11 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

CHANGE (8/23): I-CWA DME ELEVATION REVISED.

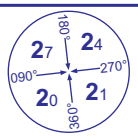
AERO INFO DATE 16 MAY 23

INSTRUMENT APPROACH CHART - ICAO

CARDIFF LOC/DME/ NDB(L) y RWY 30
(ACFT CAT A,B)

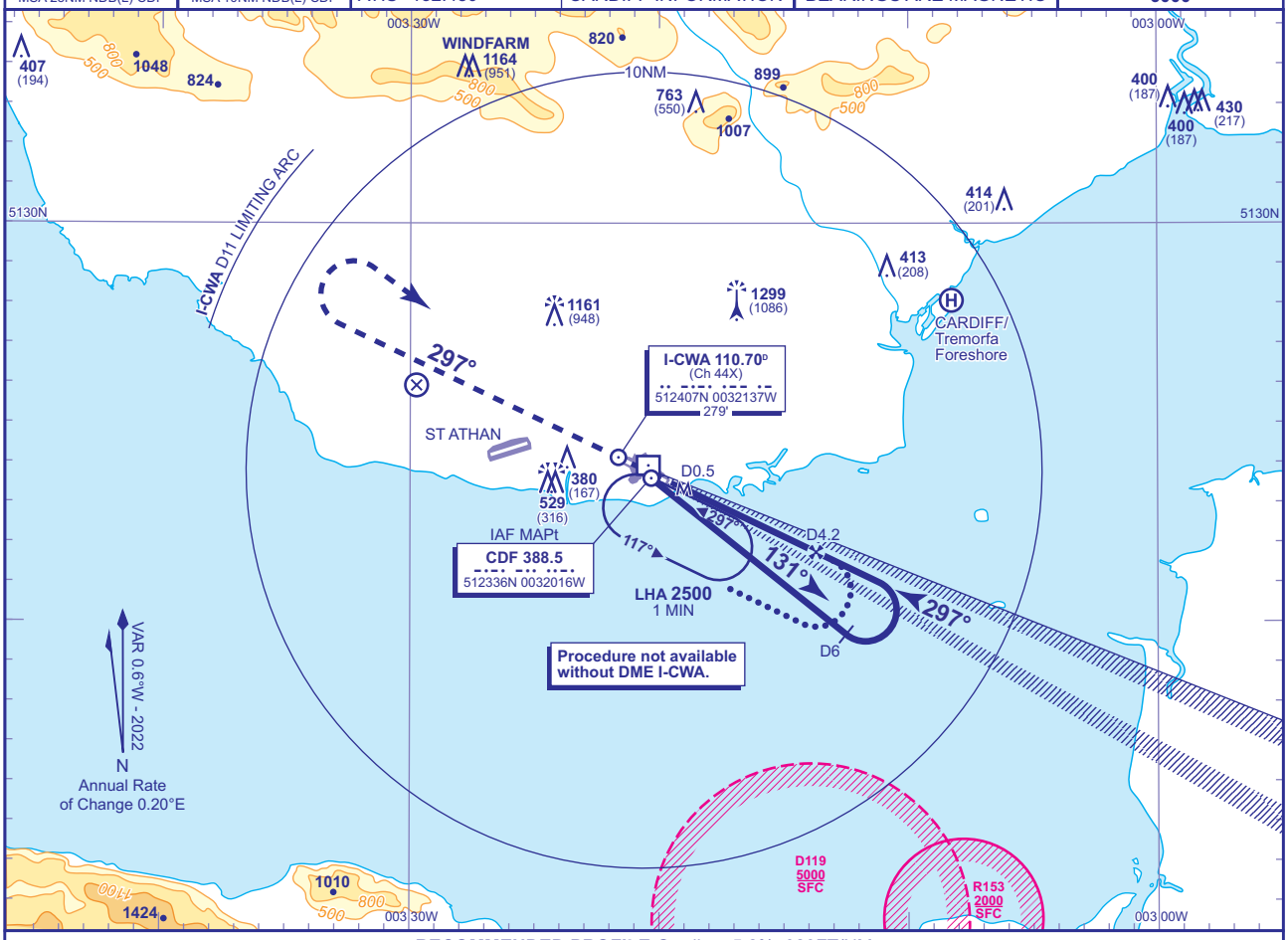


MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

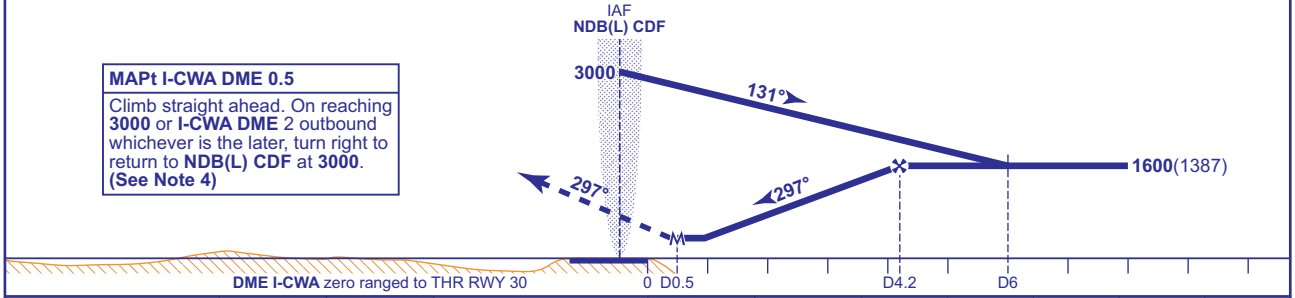
APP	119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220	TRANSITION ALTITUDE 6000
TWR	133.105	CARDIFF TOWER	THR ELEVATION	213	
RAD	125.855	CARDIFF RADAR	OBSTACLE ELEVATION 1299 AMSL (1086) (ABOVE THR)		
	119.155 (LARS)				
ATIS	132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-CWA	3	2	1
ALT(HGT)	**1220**(1007)	**900**(687)	**580**(367)

MAPt I-CWA DME 0.5
Climb straight ahead. On reaching **3000** or **I-CWA DME** 2 outbound whichever is the later, turn right to return to **NDB(L) CDF** at **3000**. **(See Note 4)**



Aircraft Category		A	B
OCA (OCH)	**Procedure**	**500**(287)	**500**(287)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(460)	**820**(600)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of the NDB(L) CDF holding pattern to I-CWA DME 5 descending to **1600**(1387) then proceed as for main procedure.

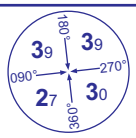
NOTE 1 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CWA may descend to **3000** after passing I-CWA DME 10.
2 ATC will authorise crossing of EG D119 before start of procedure.
3 Timed procedure not available without radar monitoring.
4 Aircraft to remain within I-CWA DME 11 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

CHANGE (8/23): I-CWA DME ELEVATION REVISED.

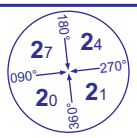
AERO INFO DATE 16 MAY 23 AD 2-EGFF-8-8

INSTRUMENT APPROACH CHART - ICAO

CARDIFF LOC/DME/ NDB(L) z RWY 30
(ACFT CAT C,D)



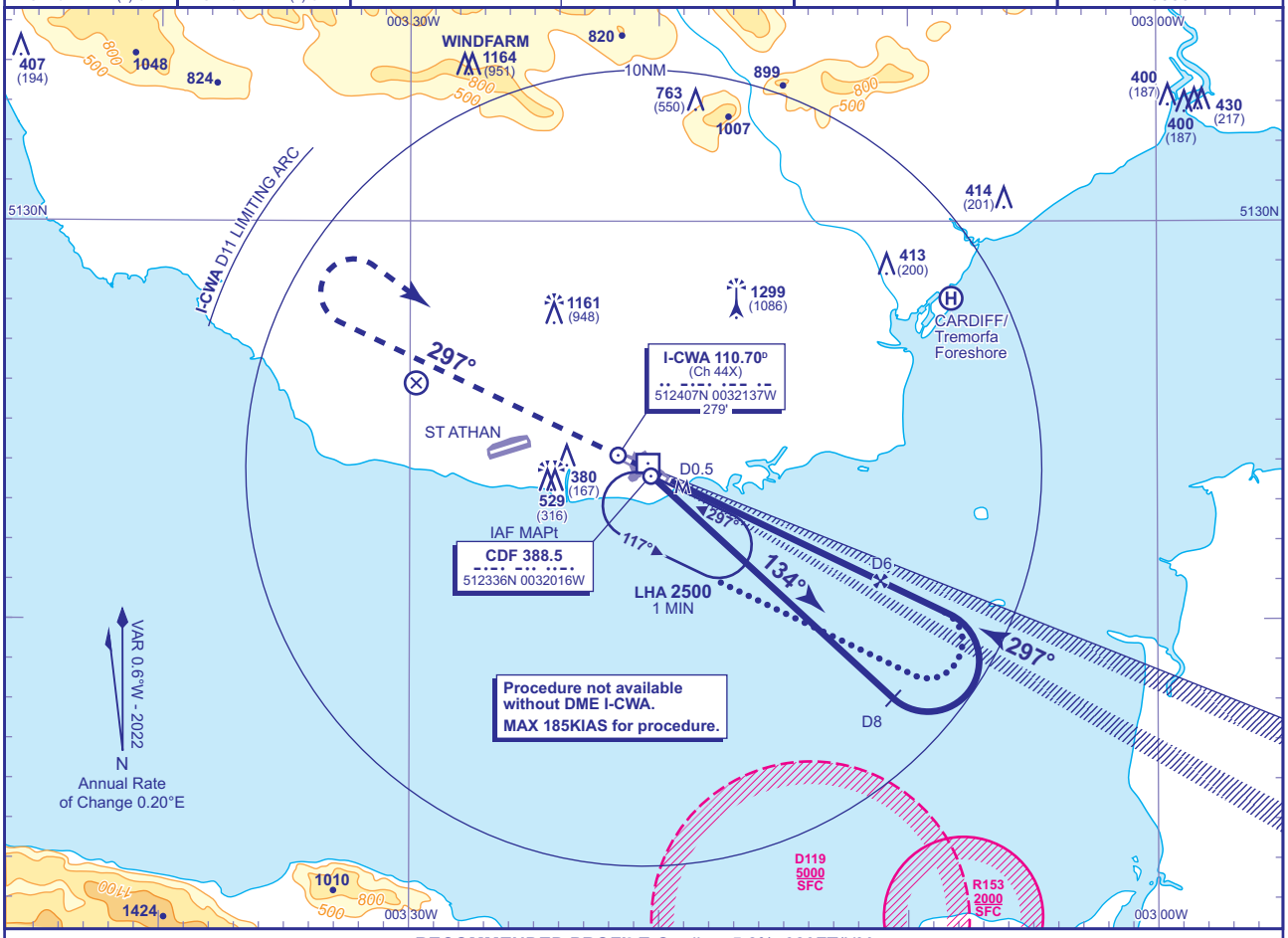
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220
TWR 133.105	CARDIFF TOWER	THR ELEVATION	213
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION 1299 AMSL (1086) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

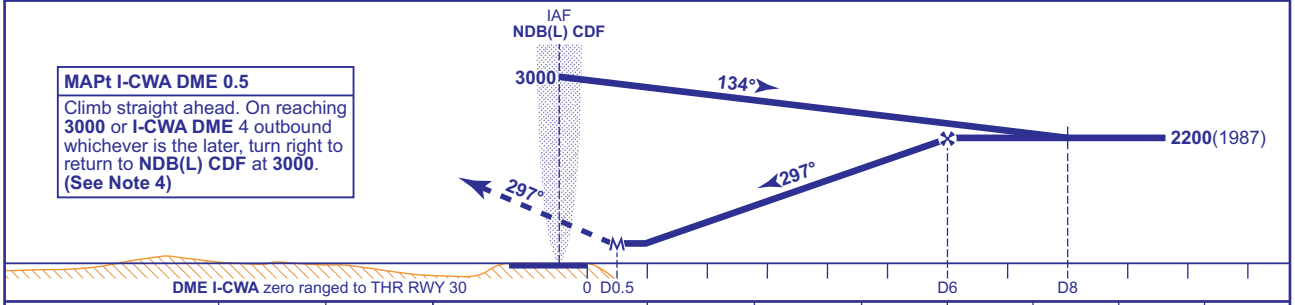
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-CWA	5	4	3	2	1
ALT(HGT)	**1860**(1647)	**1540**(1327)	**1220**(1007)	**900**(687)	**580**(367)

MAPt I-CWA DME 0.5
Climb straight ahead. On reaching **3000** or **I-CWA DME** 4 outbound whichever is the later, turn right to return to **NDB(L) CDF** at **3000**. **(See Note 4)**



Aircraft Category		C	D
OCA (OCH)	**Procedure**	**500**(287)	**500**(287)
VM(C)OCA (OCH AAL)	**Total Area**	**1560**(1340)	**1690**(1470)
	South of RWY 12/30	**920**(700)	**920**(700)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of the NDB(L) CDF holding pattern to I-CWA DME 8 descending to **2200**(1987) then proceed as for main procedure.

NOTE 1 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CWA may descend to **3000** after passing I-CWA DME 10.
2 ATC will authorise crossing of EG D119 before start of procedure.
3 Timed procedure not available without radar monitoring.
4 Aircraft to remain within I-CWA DME 11 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

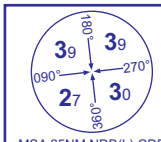
CHANGE (8/23): I-CWA DME ELEVATION REVISED.

AERO INFO DATE 16 MAY 23

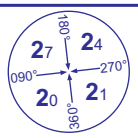
AD 2-EGFF-8-9

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
SRA RTR 2NM
RWY 30
(ACFT CAT A,B,C,D)



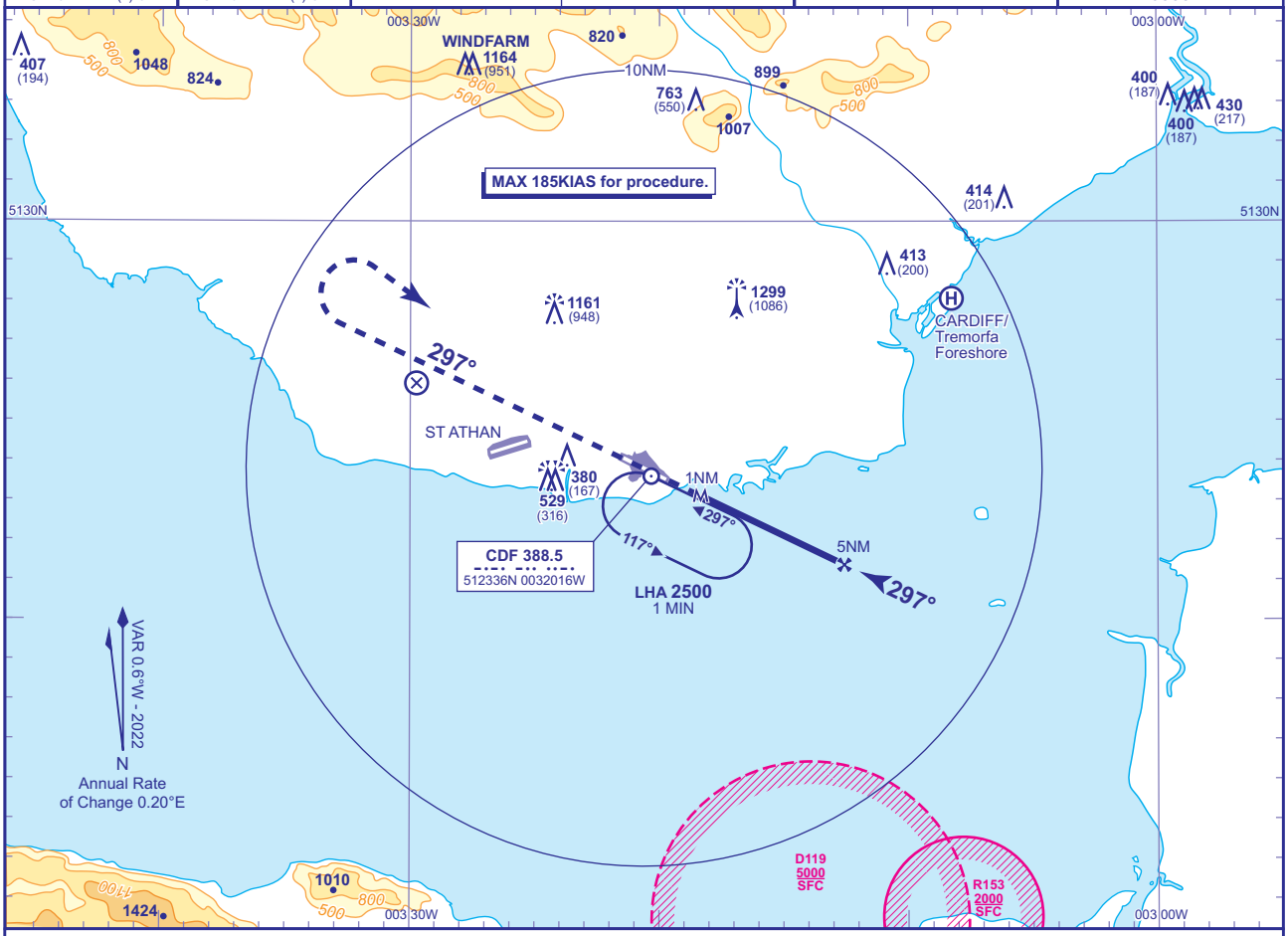
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	**220**
TWR 133.105	CARDIFF TOWER	THR ELEVATION	**213**
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION **1299 AMSL** (1086) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

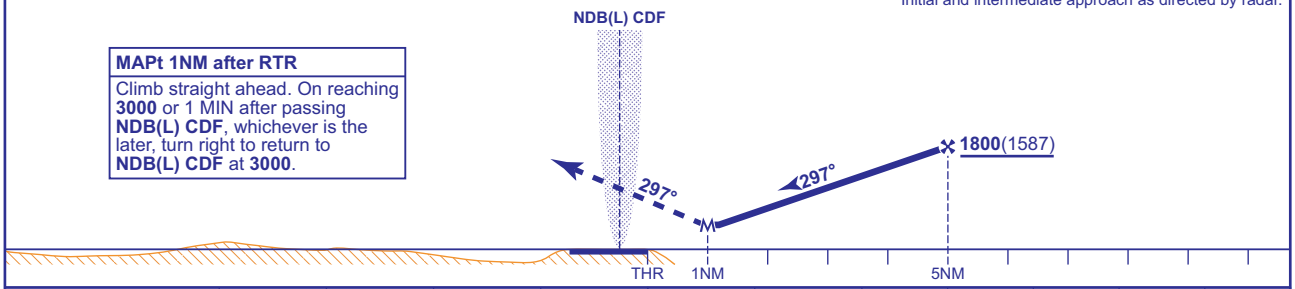
TRANSITION ALTITUDE **6000**



RADAR ADVISORY HEIGHTS Gradient 5.2%, 320FT/NM				
NM	5.0	4.0	3.0	2.0
ALT(HGT)	**1800**(1587)	**1480**(1267)	**1170**(957)	**850**(637)

Initial and intermediate approach as directed by radar.

MAPt 1NM after RTR
Climb straight ahead. On reaching **3000** or 1 MIN after passing **NDB(L) CDF**, whichever is the later, turn right to return to **NDB(L) CDF** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	**2.5% MAP**	**770**(557)	**770**(557)	**770**(557)	**770**(557)
	3.5% MAP	**620**(407)	**620**(407)	**620**(407)	**620**(407)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(460)	**820**(600)	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**680**(460)	**820**(600)	**920**(700)	**920**(700)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	630	530	420
RTR to MAPT	**MIN:SEC**	0:22	0:25	0:30	0:36	0:45

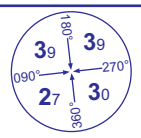
NOTE 1 ATC will authorise crossing of EG D119 before start of procedure.
2 Radar Ranges measured to touchdown.

CHANGE (8/21): APP, TWR, RAD FREQUENCIES REVISED.

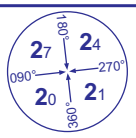
AERO INFO DATE 17 MAY 21 AD 2-EGFF-8-10

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
RNP
RWY 30
(ACFT CAT A,B,C,D)



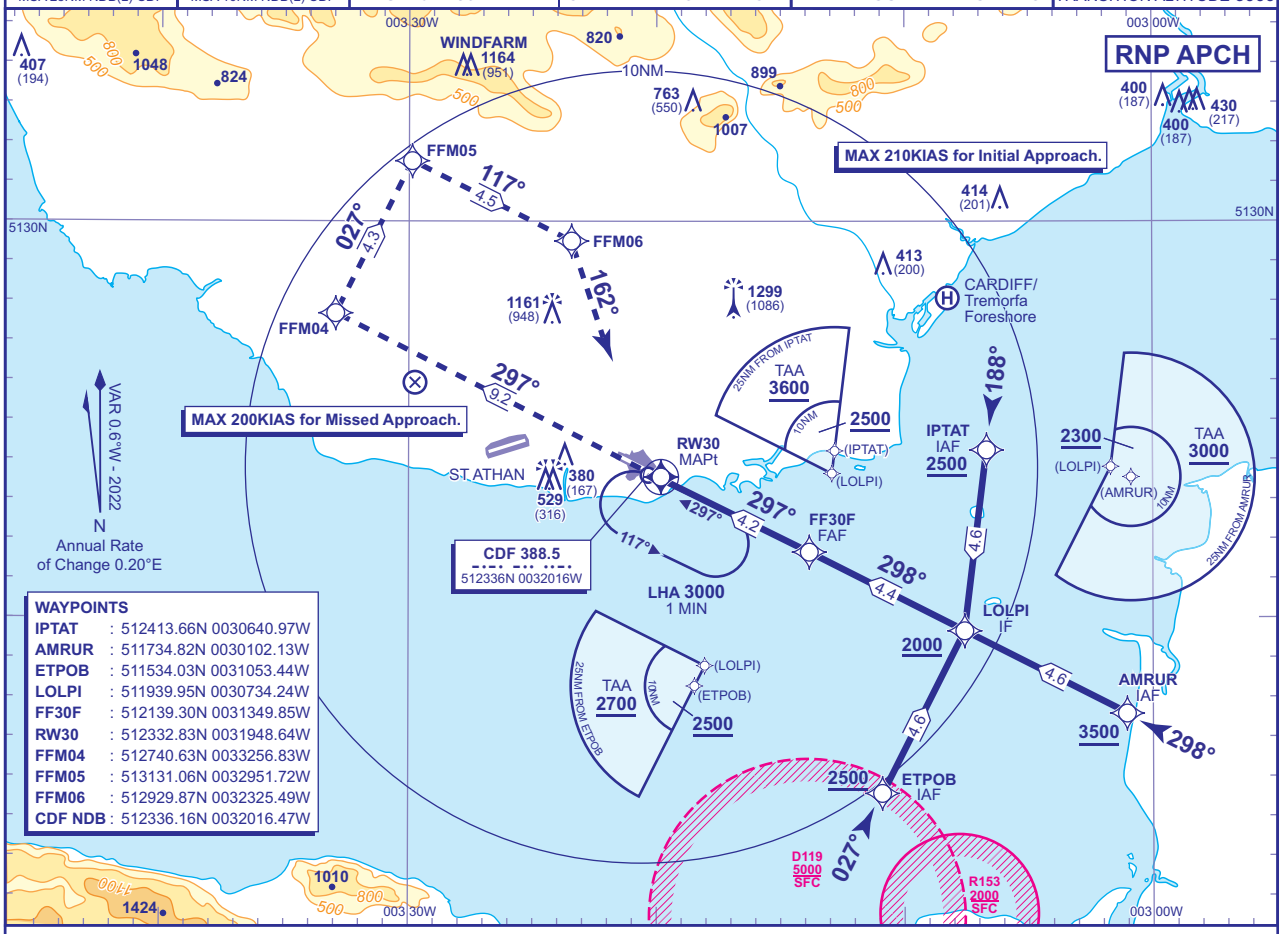
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220
TWR 133.105	CARDIFF TOWER	THR ELEVATION	213
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION	
119.155 (LARS)		1299 AMSL (1086) (ABOVE THR)	
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

MIN TEMP -10°C
TRANSITION ALTITUDE 6000



WAYPOINTS

IPTAT	: 512413.66N 0030640.97W
AMRUR	: 511734.82N 0030102.13W
ETPOB	: 511534.03N 0031053.44W
LOLPI	: 511939.95N 0030734.24W
FF30F	: 512139.30N 0031349.85W
RW30	: 512332.83N 0031948.64W
FFM04	: 512740.63N 0033256.83W
FFM05	: 513131.06N 0032951.72W
FFM06	: 512929.87N 0032325.49W
CDF NDB	: 512336.16N 0032016.47W

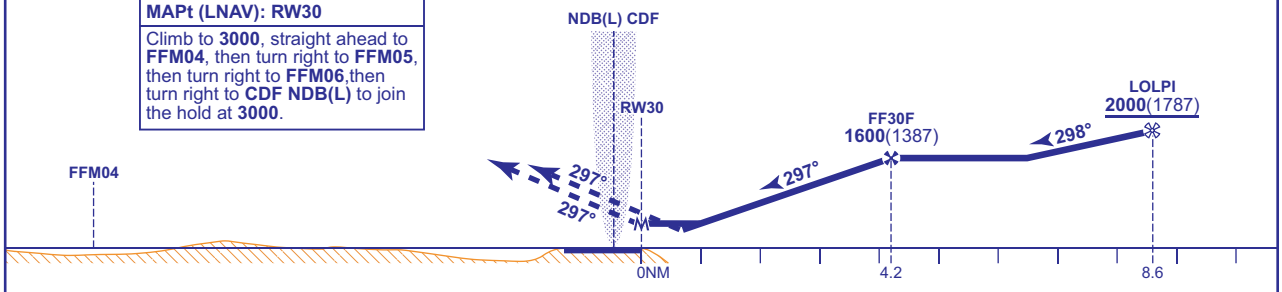
RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.0° (LNAV 5.2%), 320FT/NM

NM to RW30	4	3	2	1
ALT(HGT)	**1540**(1327)	**1220**(1007)	**900**(687)	**580**(367)

TCH 50

MAPt (LNAV): RW30

Climb to **3000**, straight ahead to **FFM04**, then turn right to **FFM05**, then turn right to **FFM06**,then turn right to **CDF NDB(L)** to join the hold at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV	**540**(327)	**540**(327)	**540**(327)	**540**(327)
	LNAV/VNAV	**470**(257)	**470**(257)	**470**(257)	**470**(257)
VM(C)OCA (OCH AAL)	Total Area	**680**(460)	**820**(600)	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**680**(460)	**820**(600)	**920**(700)	**920**(700)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE **NDB(L) CDF** required for missed approach.

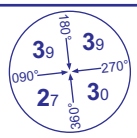
CHANGE (12/21): EGNOS AND LPV REMOVED.

AERO INFO DATE 23 JUL 21

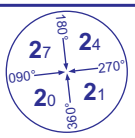
AD 2-EGFF-8-11

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
NDB(L)/DME y
RWY 30
(ACFT CAT A,B)



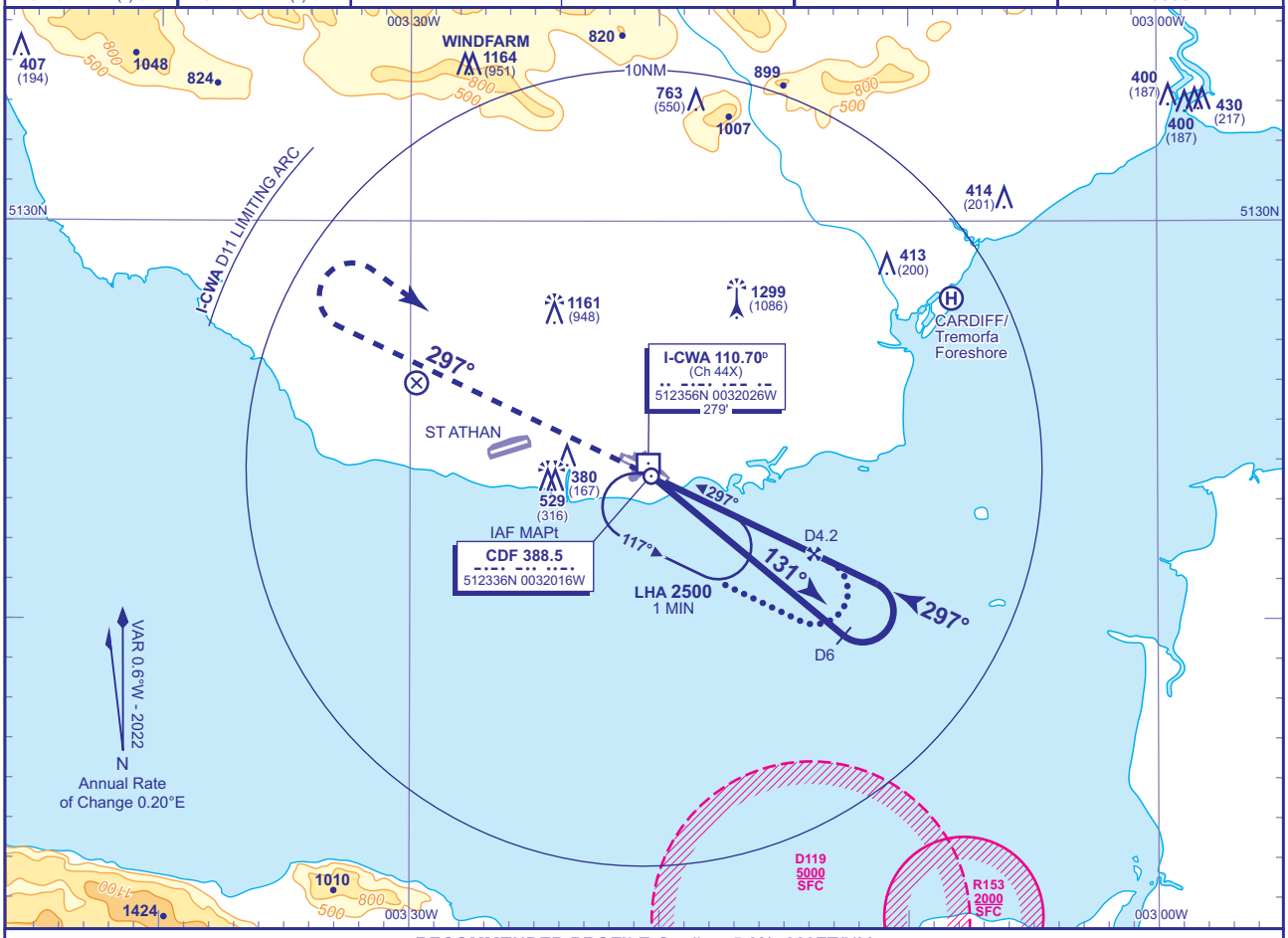
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	**220**
TWR 133.105	CARDIFF TOWER	THR ELEVATION	**213**
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION **1299 AMSL** (1086) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

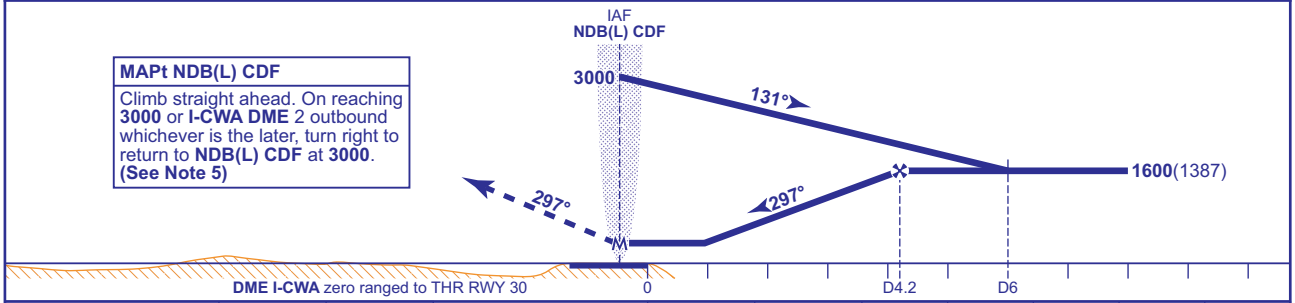
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.3%, 320FT/NM

DME I-CWA	3	2	1
ALT(HGT)	**1230**(1017)	**910**(697)	**590**(377)

MAPt NDB(L) CDF
Climb straight ahead. On reaching **3000** or **I-CWA DME** 2 outbound whichever is the later, turn right to return to **NDB(L) CDF** at **3000**. **(See Note 5)**



Aircraft Category		A	B
OCA (OCH)	WITH DME	**570**(357)	**570**(357)
	NO DME	**620**(407)	**620**(407)
VM(C)OCA (OCH AAL)	Total Area	**680**(460)	**820**(600)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	650	540	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of the NDB(L) CDF holding pattern to I-CWA DME 5 descending to **1600**(1387) then proceed as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-CWA
As for main and alternative procedures except fly outbound leg for 2.5 MIN and when established descend to MDH. Radar ranges will be passed at 6NM outbound and 4NM inbound.

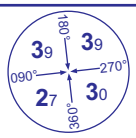
NOTE 1 FAT offset 1° from RWY C/L.
2 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CWA may descend to **3000** after passing I-CWA DME 10.
3 ATC will authorise crossing of EG D119 before start of procedure.
4 Timed procedure not available without radar monitoring.
5 Aircraft to remain within I-CWA DME 11 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

CHANGE (8/23): I-CWA DME ELEVATION REVISED.

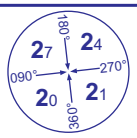
AERO INFO DATE 16 MAY 23 AD 2-EGFF-8-12

INSTRUMENT APPROACH CHART - ICAO

CARDIFF
NDB(L)/DME z
RWY 30
(ACFT CAT C,D)



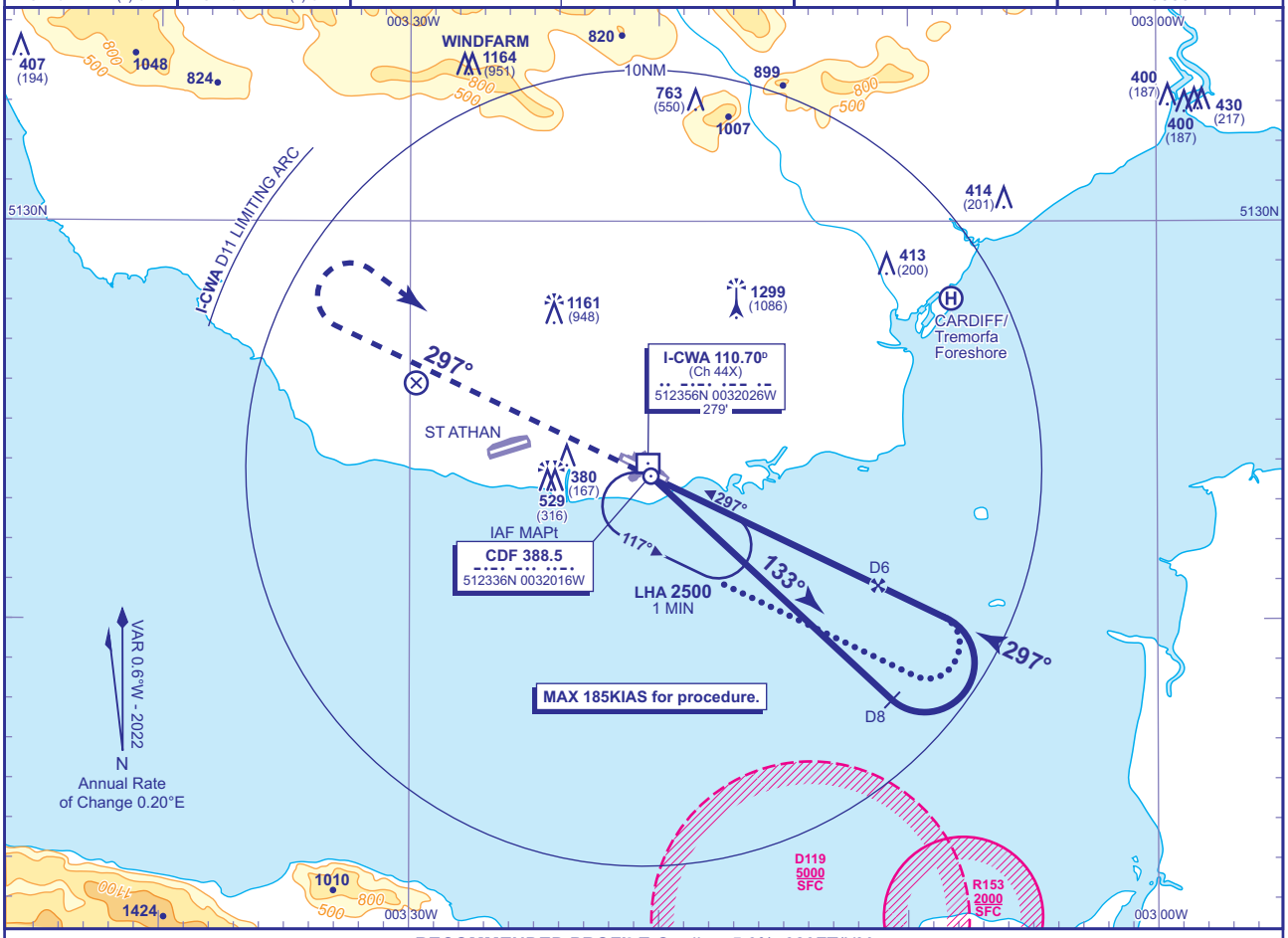
MSA 25NM NDB(L) CDF



MSA 10NM NDB(L) CDF

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	220
TWR 133.105	CARDIFF TOWER	THR ELEVATION	213
RAD 125.855	CARDIFF RADAR	OBSTACLE ELEVATION 1299 AMSL (1086) (ABOVE THR)	
119.155 (LARS)			
ATIS 132.480	CARDIFF INFORMATION	BEARINGS ARE MAGNETIC	

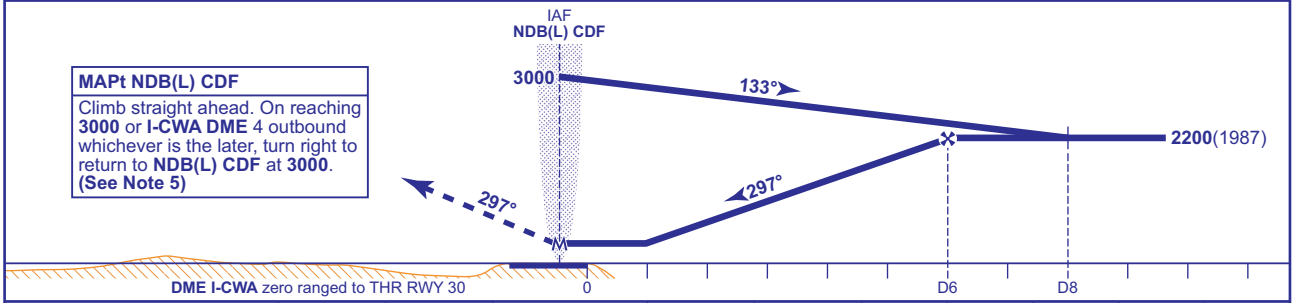
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.3%, 320FT/NM

DME I-CWA	5	4	3	2	1
ALT(HGT)	**1880**(1667)	**1550**(1337)	**1230**(1017)	**910**(697)	**590**(377)

MAPt NDB(L) CDF
Climb straight ahead. On reaching **3000** or **I-CWA DME** 4 outbound whichever is the later, turn right to return to **NDB(L) CDF** at **3000**. **(See Note 5)**



Aircraft Category		C	D
OCA (OCH)	WITH DME	**570**(357)	**570**(357)
	NO DME	**620**(407)	**620**(407)
VM(C)OCA (OCH AAL)	Total Area	**1560**(1340)	**1690**(1470)
	SW of RWY 12/30	**920**(700)	**920**(700)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	650	540	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of the NDB(L) CDF holding pattern to I-CWA DME 8 descending to **2200**(1987) then proceed as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-CWA As for main and alternative procedures except substitute 2.5 MIN for distance on outbound leg and when established on FAT, descend to MDH. Radar ranges will be passed at 8NM outbound and 6NM inbound.

NOTE 1 FAT offset 1° from RWY C/L.
2 Subject to ATC approval, aircraft inbound to NDB(L) CDF and receiving DME I-CWA may descend to **3000** after passing I-CWA DME 10.
3 ATC will authorise crossing of EG D119 before start of procedure.
4 Timed procedure not available without radar monitoring.
5 Aircraft to remain within I-CWA DME 11 during the missed approach turn in order to be contained within Cardiff controlled airspace. If unable to comply, notify ATC.

CHANGE (8/23): I-CWA DME ELEVATION REVISED.

AERO INFO DATE 16 MAY 23
AD 2-EGFF-8-13

Instrument Approach Procedure Coding Tables

Cardiff RNP RWY 12 - Instrument Approach Procedure via VABMU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12R	001	IF	VABMU	N	-	-	2700	210	512509.89N 0033746.51W	IAF
R12R	002	TF	OGPUV	N	027° (026.55°)	RIGHT	2500	-	512822.91N 0033512.05W	IF / 9.7NM
R12R	003	TF	FF12F	N	117° (116.58°)	-	2200	-	512646.22N 0033003.19W	FAF / 6.1NM
R12R	004	TF	RW12	Y	117° (116.65°)	-	-	-	512401.72N 0032120.17W	MAPt
R12R	005	TF	FFM01	N	117° (116.76°)	LEFT	-	200	512017.05N 0030930.86W	-
R12R	006	TF	FFM02	N	028° (026.92°)	LEFT	-	200	512406.87N 0030624.28W	-
R12R	007	TF	FFM03	N	298° (296.96°)	LEFT	-	200	512608.99N 0031249.01W	-
R12R	008	TF	CDF NDB	N	242° (241.40°)	-	3000	200	512336.16N 0032016.47W	CONVENTIONAL HOLD

Cardiff RNP RWY 12 - Instrument Approach Procedure via OGPUV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12C	001	IF	OGPUV	N	-	-	2500	-	512822.91N 0033512.05W	IF / 9.7NM
R12C	002	TF	FF12F	N	117° (116.58°)	-	2200	-	512646.22N 0033003.19W	FAF / 6.1NM
R12C	003	TF	RW12	Y	117° (116.65°)	-	-	-	512401.72N 0032120.17W	MAPt
R12C	004	TF	FFM01	N	117° (116.76°)	LEFT	-	200	512017.05N 0030930.86W	-
R12C	005	TF	FFM02	N	028° (026.92°)	LEFT	-	200	512406.87N 0030624.28W	-
R12C	006	TF	FFM03	N	298° (296.96°)	LEFT	-	200	512608.99N 0031249.01W	-
R12C	007	TF	CDF NDB	N	242° (241.40°)	-	3000	200	512336.16N 0032016.47W	CONVENTIONAL HOLD

Cardiff RNP RWY 12 - Instrument Approach Procedure via IVNIM

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12L	001	IF	IVNIM	N	-	-	3200	210	513135.90N 0033237.22W	IAF
R12L	002	TF	OGPUV	N	207° (206.62°)	LEFT	2500	-	512822.91N 0033512.05W	IF / 9.7NM
R12L	003	TF	FF12F	N	117° (116.58°)	-	2200	-	512646.22N 0033003.19W	FAF / 6.1NM
R12L	004	TF	RW12	Y	117° (116.65°)	-	-	-	512401.72N 0032120.17W	MAPt
R12L	005	TF	FFM01	N	117° (116.76°)	LEFT	-	200	512017.05N 0030930.86W	-
R12L	006	TF	FFM02	N	028° (026.92°)	LEFT	-	200	512406.87N 0030624.28W	-
R12L	007	TF	FFM03	N	298° (296.96°)	LEFT	-	200	512608.99N 0031249.01W	-
R12L	008	TF	CDF NDB	N	242° (241.40°)	-	3000	200	512336.16N 0032016.47W	CONVENTIONAL HOLD

CHANGE (4/21): MAG TRACKS.
AERO INFO DATE 01 FEB 21

Instrument Approach Procedure Coding Tables

Cardiff RNP RWY 30 - Instrument Approach Procedure via IPTAT

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30R	001	IF	IPTAT	N	-	-	2500	210	512413.66N 0030640.97W	IAF
R30R	002	TF	LOLPI	N	188° (186.95°)	RIGHT	2000	-	511939.95N 0030734.24W	IF / 8.6NM
R30R	003	TF	FF30F	N	298° (296.94°)	-	1600	-	512139.30N 0031349.85W	FAF / 4.2NM
R30R	004	TF	RW30	Y	297° (296.86°)	-	-	-	512332.83N 0031948.64W	MAPt
R30R	005	TF	FFM04	N	297° (296.78°)	RIGHT	-	200	512740.63N 0033256.83W	-
R30R	006	TF	FFM05	N	027° (026.61°)	RIGHT	-	200	513131.06N 0032951.72W	-
R30R	007	TF	FFM06	N	117° (116.65°)	RIGHT	-	200	512929.87N 0032325.49W	-
R30R	008	TF	CDF NDB	N	162° (161.51°)	-	3000	200	512336.16N 0032016.47W	CONVENTIONAL HOLD

Cardiff RNP RWY 30 - Instrument Approach Procedure via AMRUR

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30C	001	IF	AMRUR	N	-	-	3500	210	511734.82N 0030102.13W	IAF
R30C	002	TF	LOLPI	N	298° (297.03°)	-	2000	-	511939.95N 0030734.24W	IF / 8.6NM
R30C	003	TF	FF30F	N	298° (296.94°)	-	1600	-	512139.30N 0031349.85W	FAF / 4.2NM
R30C	004	TF	RW30	Y	297° (296.86°)	-	-	-	512332.83N 0031948.64W	MAPt
R30C	005	TF	FFM04	N	297° (296.78°)	RIGHT	-	200	512740.63N 0033256.83W	-
R30C	006	TF	FFM05	N	027° (026.61°)	RIGHT	-	200	513131.06N 0032951.72W	-
R30C	007	TF	FFM06	N	117° (116.65°)	RIGHT	-	200	512929.87N 0032325.49W	-
R30C	008	TF	CDF NDB	N	162° (161.51°)	-	3000	200	512336.16N 0032016.47W	CONVENTIONAL HOLD

Cardiff RNP RWY 30 - Instrument Approach Procedure via ETPOB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30L	001	IF	ETPOB	N	-	-	2500	210	511534.03N 0031053.44W	IAF
R30L	002	TF	LOLPI	N	027° (026.90°)	LEFT	2000	-	511939.95N 0030734.24W	IF / 8.6NM
R30L	003	TF	FF30F	N	298° (296.94°)	-	1600	-	512139.30N 0031349.85W	FAF / 4.2NM
R30L	004	TF	RW30	Y	297° (296.86°)	-	-	-	512332.83N 0031948.64W	MAPt
R30L	005	TF	FFM04	N	297° (296.78°)	RIGHT	-	200	512740.63N 0033256.83W	-
R30L	006	TF	FFM05	N	027° (026.61°)	RIGHT	-	200	513131.06N 0032951.72W	-
R30L	007	TF	FFM06	N	117° (116.65°)	RIGHT	-	200	512929.87N 0032325.49W	-
R30L	008	TF	CDF NDB	N	162° (161.51°)	-	3000	200	512336.16N 0032016.47W	CONVENTIONAL HOLD

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AERO INFO DATE 23 JUL 21

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EGLJ — CHALGROVE

EGLJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGLJ — CHALGROVE

EGLJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 514028N Long: 0010507W Mid point of Runway 12/30
2	Direction and distance from city	8 NM SE of Oxford.
3	Elevation / Reference temperature / Mean Low Temperature	240 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	154 FT
5	Magnetic Variation / Annual Change	1.01°E (2027) / 0.17°E
6	AD Administration Address Telephone Telefax	MARTIN-BAKER AIRCRAFT COMPANY LTD. Chalgrove Airfield, Chalgrove, Oxford, OX44 7RJ. 01865-892200 01865-892214
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGLJ AD 2.3 OPERATIONAL HOURS

1	AD Administration	Airfield activated as required to support Martin-Baker Ltd operations. Airfield may be activated at anytime 24/7.
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	By arrangement
8	Fuelling	By arrangement
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR. The aerodrome may be active H24 seven days a week with military aircraft not necessarily obeying Rules of the Air.

EGLJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGLJ AD 2.5 PASSENGER FACILITIES

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EGLJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category A3 accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGLJ AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGLJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGLJ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Taxiway marking aid(s): Blue taxiway edge reflectors are positioned on Taxiway A
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Two WDI: 514037.89N 0010538.27W (LGTD); 514013.75N 0010440.71W (LGTD).

EGLJ AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLJ2701) 12/APPROACH 30/ TAKE-OFF	TREE	514045.51N 0010555.55W	271 FT		No	
(EGLJ2700) 12/APPROACH 30/ TAKE-OFF	TREE	514045.12N 0010554.15W	267 FT		No	
(EGLJ2962) 30/APPROACH 12/ TAKE-OFF	TREE	514007.83N 0010424.80W	282 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLJ2414)	STRUCTURE	514040.52N 0010426.16W	299 FT		No	

EGLJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGLJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
12	124.05°	1829 x 30 M	RWY surface: Asphalt	514044.57N 0010545.76W 154.4 FT	THR 218.9 FT	
30	304.06°	1829 x 30 M	RWY surface: Asphalt	514012.23N 0010428.80W 154.3 FT	THR 240.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1904 x 150 M				RWY 12
		1904 x 150 M				RWY 30

EGLJ AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
12	1784 M	1784 M	1784 M	1784 M	
30	1784 M	1784 M	1784 M	1784 M	

EGLJ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
12		Threshold bar and stop bars. 5 green/red each side as appropriate.				80 M spacing White			
30		Threshold bar and stop bars. 5 green/red each side as appropriate.				80 M spacing White			

EGLJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 514027.91N 0010424.68W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGLJ AD 2.16 HELICOPTER LANDING AREA

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EGLJ AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGLJ AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	CHALGROVE RADIO	125.410 A/G frequency.			As required by Martin-Baker Ltd requirements	Airfield may be active at any time. H24

EGLJ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGLJ AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Operations may occur H24 seven days a week.
b) Take-offs, landing and taxiing on grass are prohibited due to variable positioning of obstructions.
c) Overflight of hangar and associated buildings prohibited below 1000 FT AGL.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Testing of ejection seats can occur at any time from the ground up to 600 FT AGL and are divided into the following categories:

i. Seat tests from the centre of Chalgrove aerodrome up to heights of 600 FT AGL;
ii. Inflight tests from a Meteor aircraft carried out at ground level on Runway 12/30 at speeds between 60 to 130 KT;
iii. Inflight tests from a Meteor aircraft above Runway 06/24 take place at heights between 250 to 1000 FT AGL at speeds up to 450 KT;
iv. Parachute drop tests are conducted from helicopters up to 5500 FT AGL overhead Chalgrove.

b) The aerodrome is encompassed by the Benson MATZ.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGLJ AD 2.21 NOISE ABATEMENT PROCEDURES

a) No take-offs from Runway 18 to avoid noise over Chalgrove Village.

EGLJ AD 2.22 FLIGHT PROCEDURES

a) Pilots shall contact RAF Benson on 120.900 MHz for a MATZ crossing service, and for landing/departures at Chalgrove.
b) Circuit directions: To the north at 1000 FT.

EGLJ AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGLJ AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGLJ-2-1

EGLJ AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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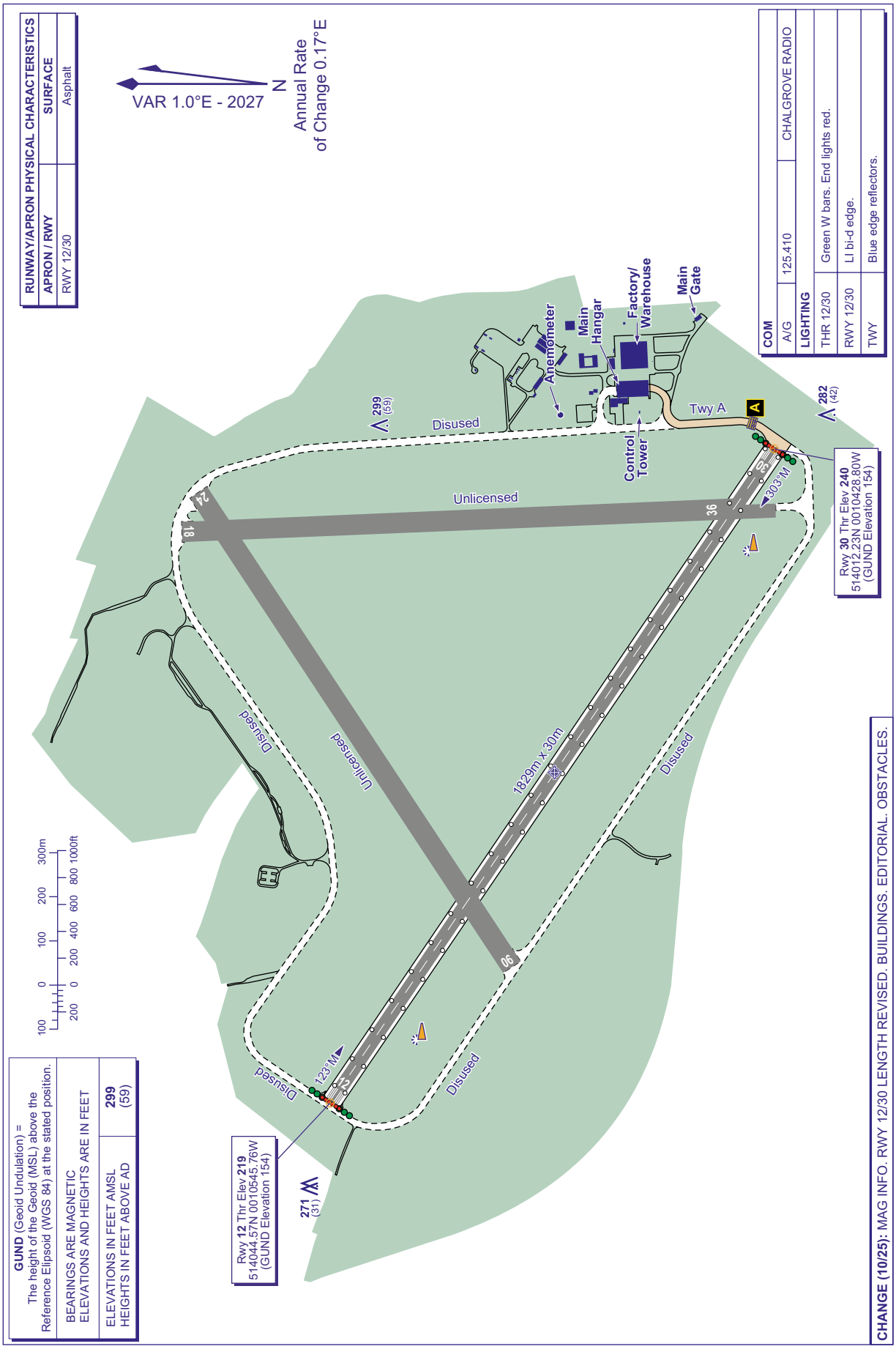
CHALGROVE EGLJ

AD ELEV 240FT

ARP 514028N 0010507W

AERODROME CHART - ICAO



AERO INFO DATE 28 JUL 25

AD 2-EGLJ-2-1

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EGHR — CHICHESTER/GOODWOOD

EGHR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHR — CHICHESTER/GOODWOOD

EGHR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 505134N Long: 0004533W Mid-point of Runway 14/32.
2	Direction and distance from city	1.5 NM NNE of Chichester
3	Elevation / Reference temperature / Mean Low Temperature	111 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	149 FT
5	Magnetic Variation / Annual Change	1.17°E (2027) / 0.17°E
6	AD Administration Address Telephone	GOODWOOD ROAD RACING COMPANY LTD Goodwood Road Racing Company Ltd, Goodwood, Chichester, West Sussex, PO18 0PH. 01243-755061 (ATS) 07966-314630 (ATS Mobile) 01243-755060 (GRRC Admin) 01243-755066 (Goodwood Flying School) 01243-755064 (Engineering)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGHR AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1700), Dec-Jan 0900-1615; other times by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18
8	Fuelling	As AD except for the last 15 minutes.
9	Handling	
10	Security	H24
11	De-icing	
12	Remarks	PPR in writing outside of published hours with minimum 24 hours notice. Aircraft movements outside of published hours not permitted after sunset or 2100 (2000), whichever is earlier, and before 0700 (0600) or sunrise, whichever is later.

EGHR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80, W100, S80, S100, Multi.
3	Fuelling facilities/capacity	JET-A1 bowser service only.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited hangarage space available, by arrangement.
6	Repair facilities for visiting aircraft	Goodwood Engineering, Tel: 01243-755064
7	Remarks	

EGHR AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel in Goodwood
2	Restaurants	Cafe

3	Transportation	Taxies
4	Medical facilities	Basic first aid on site
5	Bank and Post Office	Banks and Post Office in Chichester
6	Tourist Office	In Chichester
7	Remarks	

EGHR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 1/H1. RFF Category 2/H2 on request. RFF Category 3 accepted under remission on request.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGHR AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGHR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGHR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI (LGTD): 505132.05N 0004538.02W.

EGHR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHR1378) 24/APPROACH 06/ TAKE-OFF	MOBILE OBST	505147.72N 0004508.08W	119 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHR1360)	COMMS MAST	505334.85N 0004511.71W	742 FT		No	
(EGHR1361)	COMMS MAST	505333.29N 0004519.78W	764 FT		No	
(EGHR1420)	WINDMILL BUILDING	505244.28N 0004137.19W	459 FT		No	
(EGHR1344)	CATHEDERAL	505010.47N 0004650.48W	327 FT		No	

EGHR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	Met Office F215, F214 and weather warnings.
8	Supplementary equipment available for providing information	Real time weather avaliable at https://weather.goodwood.com/.
9	ATS units provided with information	CHICHESTER/GOODWOOD
10	Additional information (limitation of service, etc.)	Unofficial observations provided locally/observations only disseminated locally.

EGHR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06	056.93°	855 x 30 M	RWY surface: Grass	505132.24N 0004545.59W 149.1 FT	THR 102.5 FT	
24	236.94°	855 x 30 M	RWY surface: Grass	505144.87N 0004514.94W 149.1 FT	THR 105.0 FT	
10	103.03°	700 x 30 M	RWY surface: Grass	505146.62N 0004548.15W 149.2 FT	THR 109.6 FT	
28	283.04°	700 x 30 M	RWY surface: Grass	505141.51N 0004513.28W 149.1 FT	THR 101.4 FT	
14	139.21°	1262 x 31 M	RWY surface: Grass	505145.64N 0004550.10W 149.2 FT	THR 108.4 FT	
32	319.22°	1262 x 31 M	RWY surface: Grass	505121.90N 0004517.74W 149.1 FT	THR 89.6 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		915 x 72 M				RWY 06 Threshold displaced by 140 M.
		915 x 72 M				RWY 24
		760 x 72 M				RWY 10
		760 x 72 M				RWY 28
		1382 x 86 M				RWY 14 Threshold displaced by 151 M.
		1382 x 86 M				RWY 32 Threshold displaced by 143 M.

EGHR AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
14	1120 M	1120 M	1199 M	1111 M	
32	1127 M	1127 M	1178 M	1035 M	
06	799 M	799 M	799 M	715 M	
24	799 M	799 M	799 M	799 M	
10	700 M	700 M	700 M	700 M	
28	700 M	700 M	700 M	700 M	

EGHR AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGHR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 505135.37N 0004522.40W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGHR AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 505136.88N 0004522.13W, 149.1 FT
2	TLOF and/or FATO elevation	TLOF: 101.0 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Grassed parking area positioned north of the control tower. Concrete 'H' positioned east of the control tower. Further parking may be available adjacent to Hangars 1-3 when grassed area conditions are poor.

EGHR AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CHICHESTER/GOODWOOD ATZ A circle, 2 NM radius, centred at 505134N 0004533W on longest notified runway (14/ 32)	Upper limit: 2000 FT AGL Lower limit: SFC	G	GOODWOOD INFORMATION English	6000 FT		

EGHR AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	GOODWOOD INFORMATION	122.455 DOC 25 NM/6,000 FT.			0900-1700 (0800-1700), Dec-Jan 0900-1615; other times by arrangement.	ATZ hours co-incident with AFIS hours but not by arrangement.

EGHR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 1.17°E (2027) 0.8°E (2023)	GWC	94Y 114.750 MHz	H24	505118.79N 0004524.25W	122 FT	VOR DOC: 20 NM/50,000 FT and 55 NM/50,000 FT in the sector 304º to 134º. DME DOC: 80 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sector R299°-044°.

EGHR AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All aircraft using Chichester/Goodwood are required to have third party insurance cover of not less than £1,000,000.
b) No helicopter circuit flying on Sundays.
c) No fixed-wing circuit flying on Sundays after 1400 (1300).
d) Helicopters must not taxi across the road between the tower and the fire station. Helicopters taxiing from the helicopter parking area shall taxi to the west of the tower.
e) Goodwood is a regulated aerodrome pursuant to the provisions of the UK Customs and Excise Management Act 1979. Goodwood Aerodrome is not designated as a Customs & Excise airport but operates under a Certificate of Agreement issued by UK Border Force. Subject to compliance with the provisions of the UK General Aviation Report (GAR) process, flights by general aviation aircraft may enter and depart the UK via Goodwood Aerodrome, except for those aircraft that are being imported, either temporarily or permanently, from a state that is outside the Common Travel Area, in which case they must first enter and, if temporarily imported, leave the UK via a designated customs airport.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) When Runways 06/24 and 10/28 are in use for fixed-wing circuits, opposite direction helicopter circuits will be flown from the threshold of Runway 32.
b) The Motor Racing track on the perimeter of the aerodrome is in constant use during daylight hours. It is not to be used for the taxiing of aircraft at any time.
c) A runway starter extension is available on Runway 32 to correctly indicate the start of TORA/TODA/ASDA. Aircraft using the starter extension with a wingspan greater than 16 M are to coordinate the departure with ATS.
d) Pilots may experience windshear on Runways 06 and 24 particularly in strong southwesterly wind conditions.
e) Increased bird activity may be present on the airfield outside of normal operating hours. Pilots operating with an authorised out of hours approval should exercise caution.
f) Grass cutting may take place outside of published operating hours. Pilots operating with an authorised out of hours approval should exercise caution.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

Not applicable.

EGHR AD 2.21 NOISE ABATEMENT PROCEDURES

a) Runway 06

Landing: No low approaches over the built-up areas in the undershoot.

b) Runway 24

Take off: Turn right as soon as practicable to do so and establish a westerly track. Maintain track until west of built-up areas. If remaining in the circuit, ensure that crosswind and downwind track is west/northwest of Lavant village. No practice engine failures are permitted until west of the A286, Lavant Road. No low level circuits are permitted on Runway 24. Avoid overflight of Lavant village.

c) Runway 14

i. Take-off: Turn left 10° at the upwind end of Runway 14 to avoid overflying the school and fields of horses under the climb out path. No practice engine failures after take-off until well clear of the school and houses. Do not exceed the 10° left turn to avoid conflicting with the helicopter circuit.
ii. Landing: No low approaches over East Lavant village.

d) Runway 32

Take-off: Turn right 10° at the upwind end of Runway 32 to avoid East Lavant village. Maintain that heading until well beyond the village. No practice engine failures after take-off until well beyond East Lavant village. Do not exceed the 10° right turn to avoid conflicting with the helicopter circuit.

e) Runway 10

Take-off: Turn left 10° at the upwind end of the runway to avoid overflying Westerton village.

f) Runway 28

Take-off: Turn left 10° at the upwind end of the runway to avoid overflying Lavant village.

g) Helicopter Procedures

i. Helicopters are to avoid routeing over Chichester, Westerton and Summersdale.
ii. The southern helicopter circuit shall be flown when Runways 06, 10, 24 and 28 are in use. See AD 2-EGHR-4-1.
iii. The northern helicopter circuit shall be flown when Runways 14 and 32 are in use. See AD 2-EGHR-4-1.

EGHR AD 2.22 FLIGHT PROCEDURES

a) Fixed-wing circuit height is 1200 FT QFE unless otherwise directed by ATS. Do not descend below published circuit height when helicopter circuits are active.
b) Fixed-wing circuit joins on a left base leg for Runways 24 and 32 are not permitted.
c) Requests for low level/bad weather training circuits (ie below published circuit height) on Runways 14 and 32 must be pre-agreed with ATS prior to the commencement of the training detail, and are not permitted at any time whilst the helicopter circuits are active.
d) Fixed-wing glide approaches for Runways 14 and 32 are not permitted at any time whilst the northern helicopter circuit is active.
e) Orbits by fixed-wing aircraft are only to be flown on the outside of the circuit, ie on a right-hand circuit an orbit will only be flown to the left and vice versa for a left-hand circuit.
f) Circuit directions: Runways 06, 10 and 14 - LH; Runway 24, 28 and 32 - RH, or as directed by ATS.
g) Fixed-wing standard join is overhead at 2000 FT QFE. ‘Straight-in’ and ‘base’ joins are strongly discouraged when the circuit is active. ATS can advise on circuit status. Outside of published ATS hours, an overhead join is mandatory with circuits flown at published height.
h) Helicopter circuit height 800 FT or as advised by ATS. Helicopters are not permitted to join the circuit below 800 FT QFE unless weather dictates a lower height and only then when this has been pre-agreed with ATS.
i) Helicopter circuit: When Runways 14 or 32 are in use by fixed-wing, the helicopter circuit is flown from the ‘triangle’ east of the intersection with Runways 14/32 and 06/24, inside of and below the fixed-wing circuit height. When other runways are in use by fixed-wing, helicopter circuits are flown from the threshold of Runway 32, in the opposite direction to the fixed-wing circuit.
j) Helicopter and fixed-wing training flights are prohibited outside of published operating hours and at other times detailed in AD 2.20 paragraphs 1b and 1c.
k) Fixed-wing aircraft are to ensure that the take-off roll starts at the published start of TORA/TODA/ASDA on all runways in the interests of local community noise reduction.

EGHR AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGHR AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHR-2-1
NOISE ABATEMENT PROCEDURES - FIXED WING / HELI CIRCUITS
AD 2.EGHR-4-1

EGHR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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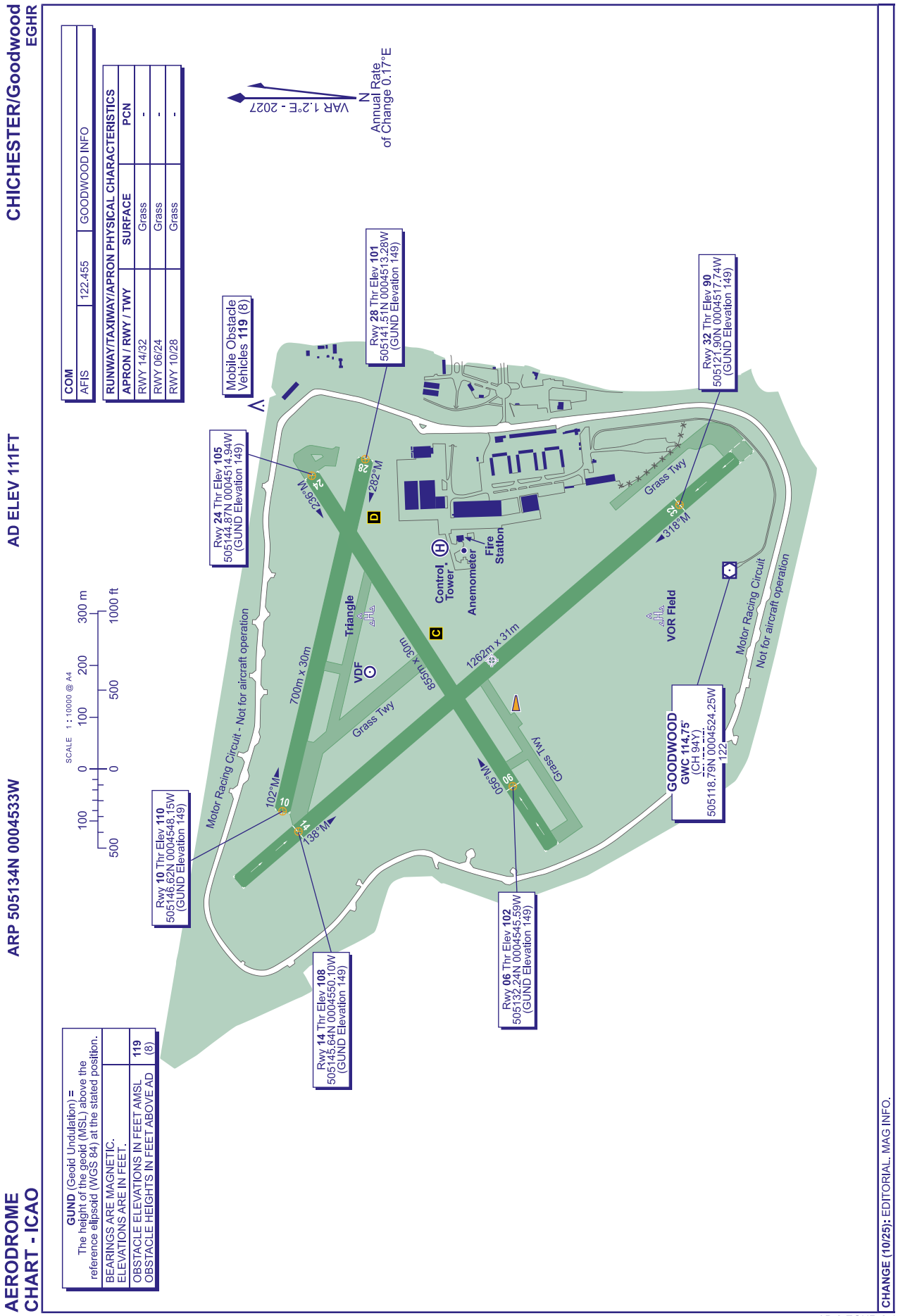
AERODROME CHART - ICAO
ARP 505134N 0004533W
AD ELEV 111FT
CHICHESTER/Goodwood
EGHR
GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC.
ELEVATIONS ARE IN FEET.
OBSTACLE ELEVATIONS IN FEET AMSL 119
OBSTACLE HEIGHTS IN FEET ABOVE AD (8)
SCALE 1 : 10000 @ A4
100 0 100 200 300 m
500 0 500 1000 ft
COM
AFIS 122.455 GOODWOOD INFO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY SURFACE PCN
RWY 14/32 Grass -
RWY 06/24 Grass -
RWY 10/28 Grass -
VAR 1.2°E - 2027
N
Annual Rate of Change 0.17°E
Mobile Obstacle Vehicles 119 (8)
Rwy 28 Thr Elev 101 505141.51N 0004513.28W (GUND Elevation 149)
Rwy 24 Thr Elev 105 505144.87N 0004514.94W (GUND Elevation 149)
Rwy 32 Thr Elev 90 505121.90N 0004517.74W (GUND Elevation 149)
Rwy 10 Thr Elev 110 505146.62N 0004548.15W (GUND Elevation 149)
Rwy 14 Thr Elev 108 505145.64N 0004550.10W (GUND Elevation 149)
Rwy 06 Thr Elev 102 505132.24N 0004545.59W (GUND Elevation 149)
GOODWOOD GWC 114.75° (CH 94Y) 505118.79N 0004524.25W 122
Motor Racing Circuit - Not for aircraft operation
Motor Racing Circuit
Not for aircraft operation
Grass Twy
Grass Twy
Grass Twy
700m x 30m
853m x 30m
1262m x 31m
Triangle
VDF
VOR Field
Control Tower
Anemometer
Fire Station
102°M
138°M
282°M
318°M
236°M
056°M
CHANGE (10/25): EDITORIAL, MAG INFO.

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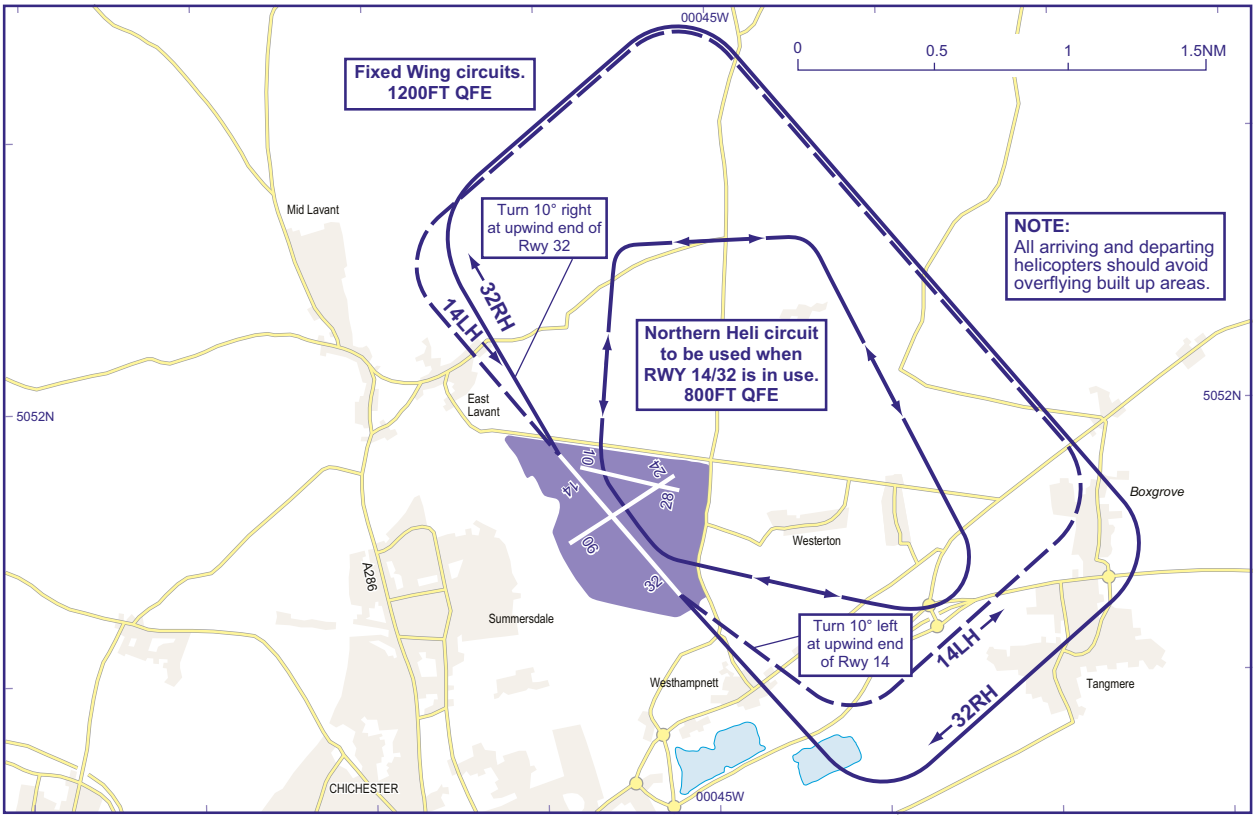
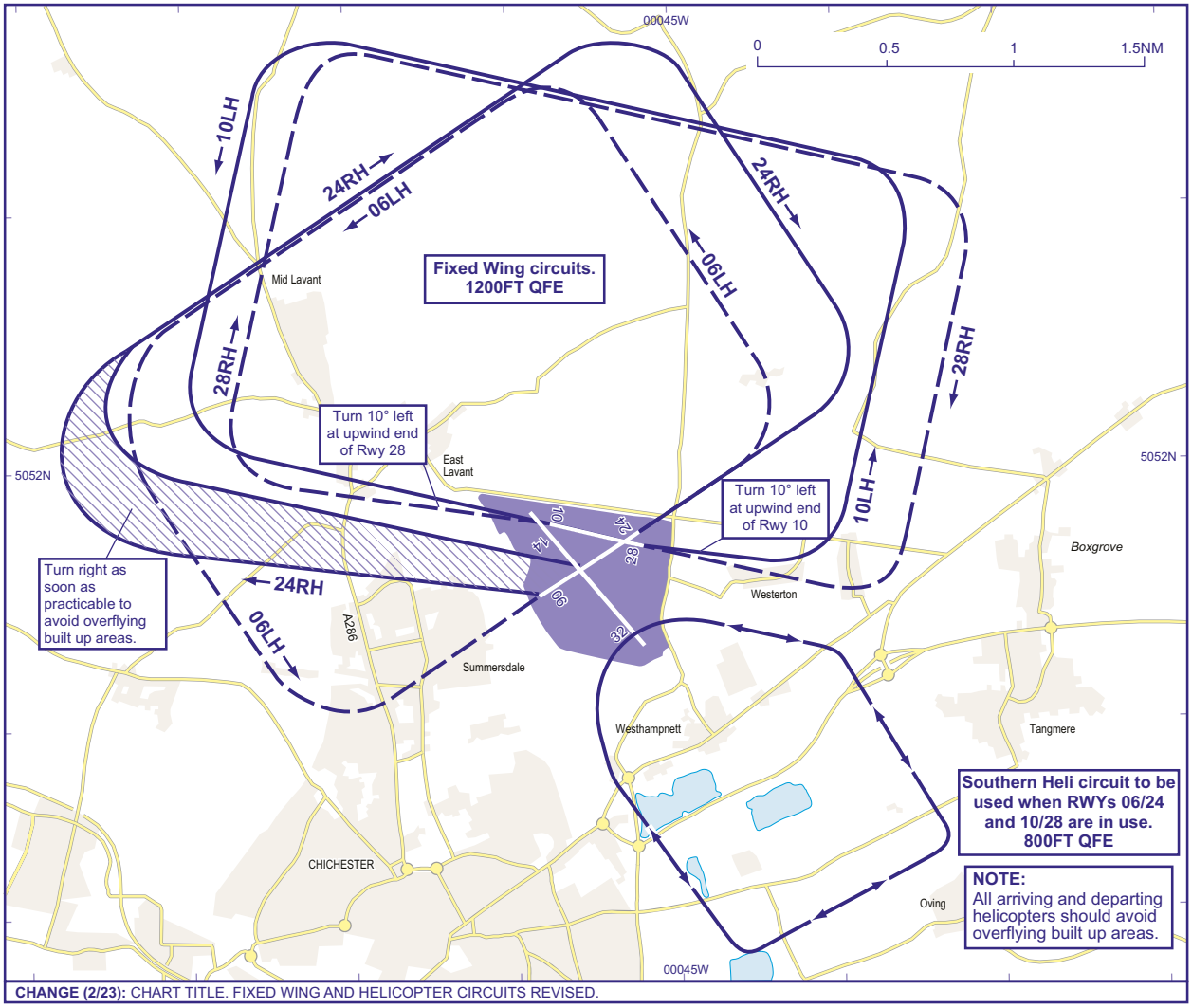
NOISE ABATEMENT PROCEDURES - FIXED WING / HELI CIRCUITS — CHICHESTER/GOODWOOD





CHANGE (2/23): CHART TITLE. FIXED WING AND HELICOPTER CIRCUITS REVISED.

AERO INFO DATE 13 DEC 22

AD 2-EGHR-4-1

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EGEL — COLL

EGEL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEL — COLL

EGEL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 563607N Long: 0063704W Mid point Runway 02/20.
2	Direction and distance from city	5 NM WSW of Arinagour.
3	Elevation / Reference temperature / Mean Low Temperature	20 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	185 FT
5	Magnetic Variation / Annual Change	1.65°W (2027) / 0.21°E
6	AD Administration Address Telephone	ARGYLL AND BUTE COUNCIL. c/o Oban Airport, North Connel, Oban, Argyll, PA37 1SX. 01631-572910 (Admin/PPR).
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Prior permission required. Telephone calls to Oban ATS will be recorded.

EGEL AD 2.3 OPERATIONAL HOURS

1	AD Administration	By prior arrangement with the aerodrome operator (Argyll and Bute Council, c/o Oban Airport).
2	Customs and immigration	Not available.
3	Health and sanitation	
4	AIS Briefing Office	Information available from Oban aerodrome by telephone.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	Information available from Oban aerodrome by telephone.
7	ATS	See AD 2.18.
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR.

EGEL AD 2.4 HANDLING SERVICES AND FACILITIES

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EGEL AD 2.5 PASSENGER FACILITIES

1	Hotels	Coll Hotel.
2	Restaurants	
3	Transportation	Taxi by arrangement.
4	Medical facilities	First aid facilities.
5	Bank and Post Office	Post office in Arinagour.
6	Tourist Office	
7	Remarks	

EGEL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited

4	Remarks	

EGEL AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Latest information on 01631-572910.

EGEL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt Strength: Equivalent Single wheel load: 1,500 kg for regular use
2	Taxiway width, surface and strength	Taxiway A: 8 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	Hold A 21 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGEL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Self parking.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 02/20: Centre-line, runway designator.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Wind direction indicator - 563600.60N 0063703.27W (LGTD).

EGEL AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEL2002)	TERRAIN	563626.55N 0063555.80W	210 FT		No	
(EGEL1090)	ROCK	563626.47N 0063555.78W	210 FT		No	
(EGEL1092)	ROCK	563620.43N 0063537.92W	199 FT		No	
(EGEL1086)	ROCK	563554.83N 0063910.19W	215 FT		No	
(EGEL2501)	RADIO AERIAL	563554.78N 0063706.08W	45 FT	21 FT	No	
(EGEL2500)	ANEMOMETER	563554.50N 0063705.10W	37 FT	13 FT	No	

EGEL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	BELFAST
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	BELFAST 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone (from Oban Aerodrome).
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	215 Low Level SIG WX. 214 Spot Winds (by fax from Oban Airport).
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGEL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
02	017.13°	501 x 18 M	RWY surface: Asphalt	563559.70N 0063708.20W 184.6 FT	THR 20.1 FT	
20	197.13°	501 x 18 M	RWY surface: Asphalt	563615.17N 0063659.56W 184.6 FT	THR 20.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		- x 60 M				RWY 02
		- x 60 M				RWY 20

EGEL AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02	501 M	501 M	501 M	501 M	
20	501 M	501 M	501 M	501 M	

EGEL AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGEL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Heliport BCN location, characteristics and hours of operation	
2	WDI location and lighting	Anemometer: 563554.50N 0063705.10W.
3	TWY edge and centre line lighting	

4	Secondary power supply/switch-over time	
5	Remarks	

EGEL AD 2.16 HELICOPTER LANDING AREA

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EGEL AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGEL AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	COLL RADIO	125.005 A/G frequency			By Prior Arrangement with the aerodrome operator c/o Oban Airport.	

EGEL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGEL AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Non radio aircraft must obtain PPR via telephone with Oban Airport Administration prior to flight, Tel. 01631-572910.
b) High visibility jackets mandatory whilst airside.
c) Aircraft that do not require the use of a licensed aerodrome and that wish to operate outside the notified hours of operation must comply with the Argyll and Bute Council Out of Hours Indemnity Scheme. PPR applies to all out of hours flights. Details of the scheme and an application form can be found at: www.obanandtheislesairports.com. Pilot information can be obtained from Oban Airport, Tel: 01631-572910.

2 GROUND MOVEMENT

a) Aircrew are advised to use minimum suitable power whilst manoeuvring on the Apron, as the front of the terminal building and personnel can be subject to prop wash.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Concentrations of Greylag Geese on and around the aerodrome throughout the year.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) The use of the airport for training purposes is subject to prior arrangement with Oban Airport Administration, Tel. 01631-572910.

EGEL AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGEL AD 2.22 FLIGHT PROCEDURES

Not applicable

EGEL AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGEL AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEL-2-1

EGEL AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

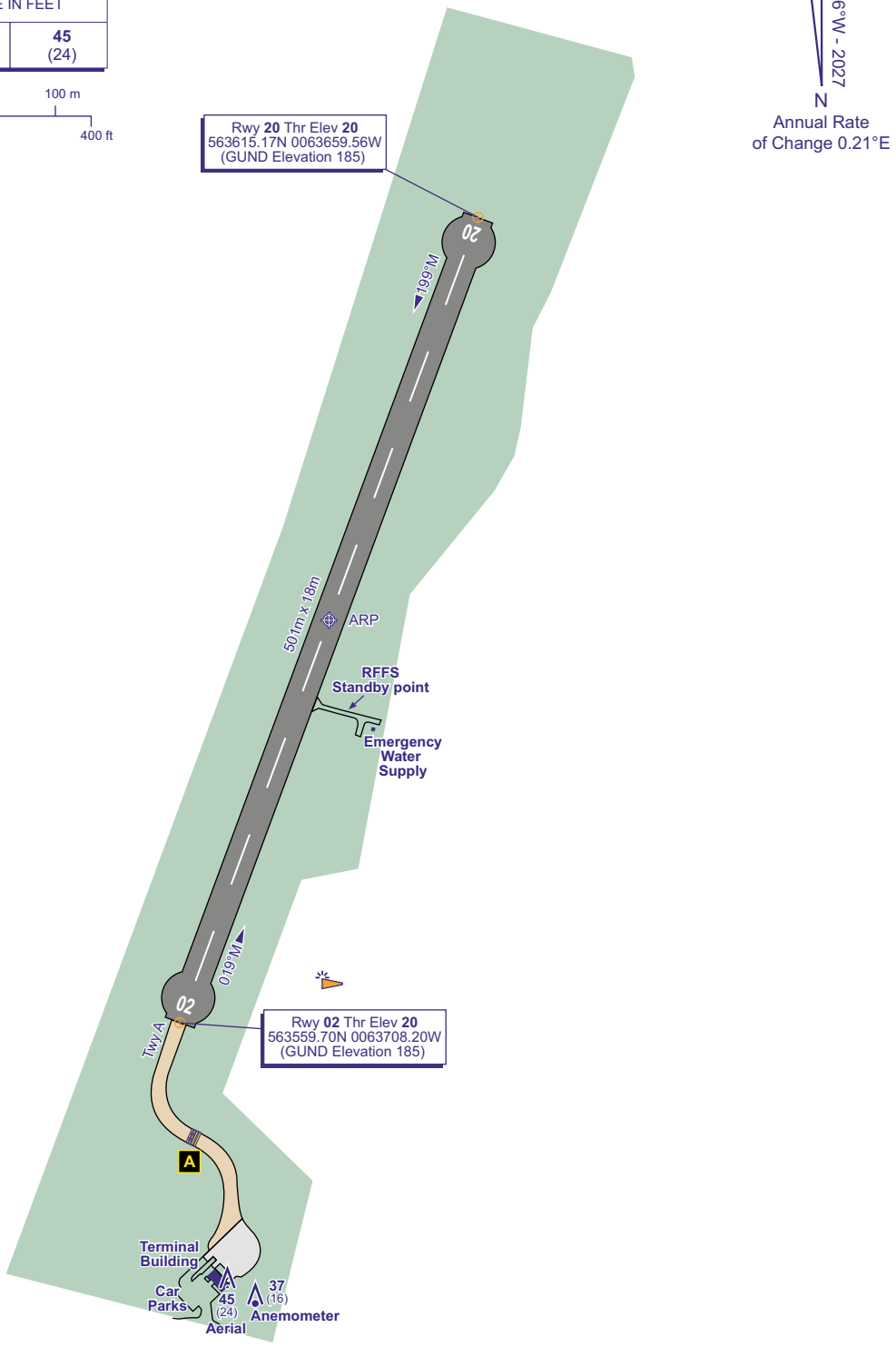
ARP 563607N 0063704W

AD ELEV 20FT

COLL
EGEL

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**45** (24)





COM		
A/G	125.005	COLL RADIO

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 02/20	Asphalt	-
Apron	Asphalt	ESWL 1,500kg
TWY A	Asphalt	ESWL 1,500kg

CHANGE (10/25): MAG INFO.

AERO INFO DATE 18 JUL 25

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EGEY — COLONSAY

EGEY AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEY — COLONSAY

EGEY AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 560327N Long: 0061435W Mid point of Runway 10/28.
2	Direction and distance from city	3 NM W of Scalasaig.
3	Elevation / Reference temperature / Mean Low Temperature	44 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	182 FT
5	Magnetic Variation / Annual Change	1.40°W (2027) / 0.21°E
6	AD Administration Address Telephone	ARGYLL AND BUTE COUNCIL. c/o Oban Airport, North Connel, Oban, Argyll, PA37 1SX. 01631-572910 (Administration/PPR)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Prior permission required. Telephone calls to Oban ATS will be recorded.

EGEY AD 2.3 OPERATIONAL HOURS

1	AD Administration	By prior arrangement with the aerodrome operator (Argyll and Bute Council, c/o Oban Airport).
2	Customs and immigration	Not available.
3	Health and sanitation	
4	AIS Briefing Office	Information available from Oban aerodrome by telephone.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	Information available from Oban aerodrome by telephone.
7	ATS	See AD 2.18.
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR.

EGEY AD 2.4 HANDLING SERVICES AND FACILITIES

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EGEY AD 2.5 PASSENGER FACILITIES

1	Hotels	Colonsay Hotel
2	Restaurants	
3	Transportation	Taxi by arrangement.
4	Medical facilities	First aid facilities.
5	Bank and Post Office	Post office in Scalasaig.
6	Tourist Office	
7	Remarks	

EGEY AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited.

4	Remarks	

EGEY AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Latest information on 01631-572910.

EGEY AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt Equivalent Single wheel load - 1,500 kg for regular use.
2	Taxiway width, surface and strength	Taxiway A: 8 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	Hold A 39 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGEY AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Self parking.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 10/28: Centre-line, runway designator.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 560329.56N 0061430.29W.

EGEY AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEY2013)	TERRAIN	560413.70N 0061414.02W	323 FT		No	
(EGEY2011)	TERRAIN	560412.79N 0061418.51W	270 FT		No	
(EGEY2014)	TERRAIN	560411.18N 0061410.49W	320 FT		No	
(EGEY2010)	TERRAIN	560409.05N 0061422.40W	235 FT		No	
(EGEY2019)	TERRAIN	560402.19N 0061351.53W	412 FT		No	
(EGEY2025)	TERRAIN	560400.87N 0061320.30W	406 FT		No	
(EGEY2017)	TERRAIN	560358.22N 0061408.75W	378 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEY2024)	TERRAIN	560349.33N 0061357.75W	285 FT		No	
(EGEY2033)	TERRAIN	560333.26N 0061259.27W	265 FT		No	
(EGEY2200)	AERIAL ON TERMINAL	560330.17N 0061439.64W	63 FT	25 FT	No	
(EGEY2201)	ANEMOMETER	560329.99N 0061436.54W	56 FT	18 FT	No	
(EGEY2046)	TERRAIN	560322.59N 0061303.64W	255 FT		No	
(EGEY2064)	CAIRN	560255.46N 0061306.62W	276 FT	4 FT	No	
(EGEY2065)	TERRAIN	560252.81N 0061310.10W	260 FT		No	

EGEY AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	BELFAST
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	BELFAST 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone (from Oban Aerodrome).
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	215 Low Level SIG WX. 214 Spot Winds (by fax from Oban Airport).
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGEY AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
10	099.52°	502 x 18 M	RWY surface: Asphalt	560328.57N 0061449.38W 182.4 FT	THR 37.4 FT	
28	279.52°	502 x 18 M	RWY surface: Asphalt	560325.88N 0061420.79W 182.4 FT	THR 44.2 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		- x 60 M				RWY 10 Runway 10 rises to its highest point at 454 M before descending towards 28 threshold. Pilots are to note when lined-up for take-off on Runways 10 or 28 the full length of the runway surface may not be visible from the cockpit.
		- x 60 M				RWY 28 Runway 28 rises to its highest point at 402 M before descending towards 10 threshold. Pilots are to note when lined-up for take-off on Runways 10 or 28 the full length of the runway surface may not be visible from the cockpit.

EGEY AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
10	502 M	502 M	502 M	502 M	
28	502 M	502 M	502 M	502 M	

EGEY AD 2.14 APPROACH AND RUNWAY LIGHTING

INTENTIONALLY BLANK

EGEY AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

INTENTIONALLY BLANK

EGEY AD 2.16 HELICOPTER LANDING AREA

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EGEY AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGEY AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	COLONSAY RADIO	123.805 A/G frequency.			By Prior Arrangement with the aerodrome operator c/o Oban Airport.	

EGEY AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGEY AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Non radio aircraft must obtain PPR via telephone with Oban Airport Administration prior to flight, Tel. 01631-572910.
b) High visibility jackets mandatory whilst airside.
c) Aircraft that do not require the use of a licensed aerodrome and that wish to operate outside the notified hours of operation must comply with the Argyll and Bute Council Out of Hours Indemnity Scheme. PPR applies to all out of hours flights. Details of the scheme and an application form can be found at: www.obanandtheislesairports.com. Pilot information can be obtained from Oban Airport, Tel: 01631-572910.

2 GROUND MOVEMENT

a) Aircrew are advised to use minimum suitable power whilst manoeuvring on the Apron, as the front of the terminal building and personnel can be subject to prop wash.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Avoid overflying bird sanctuaries which extend along the coast to the north of aerodrome.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) The use of the airport for training purposes is subject to prior arrangement with Oban Airport Administration, Tel. 01631-572910.

EGEY AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGEY AD 2.22 FLIGHT PROCEDURES

Not applicable

EGEY AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGEY AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEY-2-1

EGEY AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

COLONSAY EGEY

AERODROME CHART - ICAO

ARP 560327N 0061435W

AD ELEV 44FT

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 10/28	Asphalt	-
Apron	Asphalt	ESWL 1,500kg
Taxiway A	Asphalt	ESWL 1,500kg

VAR 1.4°W - 2027
N
Annual Rate of Change 0.21°E

Rwy **28** Thr Elev **44**
560325.88N 0061420.79W
(GUND Elevation 182)

Rwy **10** Thr Elev **37**
560328.57N 0061449.38W
(GUND Elevation 182)

28
10
281°M
101°M
502m x 18m
RFFS Standby point
Emergency Water Supply
Anemometer
56 (12)
Apron
TWY A
A
Terminal 63 Building (19)
Car Park
Port Lobh

COM		
A/G	123.805	COLONSAY RADIO

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL **63**
HEIGHTS IN FEET ABOVE AD (19)

50 100 200 0 0 50 100m 400ft

CHANGE (10/25): MAG INFO.

AERO INFO DATE 18 JUL 25

AD 2-EGEY-2-1

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EGHA — COMPTON ABBAS

EGHA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHA — COMPTON ABBAS

EGHA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 505802N Long: 0020913W Mid-point of Runway 08/26.
2	Direction and distance from city	2.7 NM S of Shaftesbury.
3	Elevation / Reference temperature / Mean Low Temperature	811 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	158 FT
5	Magnetic Variation / Annual Change	0.71°E (2027) / 0.17°E
6	AD Administration Address Telephone E-mail address Web address	AELLP Compton Abbas Aerodrome, Ashmore, Salisbury, Wiltshire, SP5 5AP. 01747-811767 info@comptonairfield.com www.comptonairfield.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGHA AD 2.3 OPERATIONAL HOURS

1	AD Administration	See website.
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	H24
11	De-icing	
12	Remarks	PPR by telephone only. Tel: 01747-811767.

EGHA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL, AVGAS UL91.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited and by arrangement.
6	Repair facilities for visiting aircraft	IGB Aviation. Tel: 07930-968851.
7	Remarks	

EGHA AD 2.5 PASSENGER FACILITIES

1	Hotels	In vicinity.
2	Restaurants	Restaurant bar and Cafe.
3	Transportation	Taxis.
4	Medical facilities	Basic first aid with defibrillator.
5	Bank and Post Office	In vicinity.
6	Tourist Office	In vicinity.
7	Remarks	

EGHA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Yes.
4	Remarks	

EGHA AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGHA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGHA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 08/26: Concrete side markers. Runway remaining indicators every 200 M. Black and white runway threshold marker boards.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Runway 08/26 QDM markers are sited before the actual runway thresholds.

EGHA AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
26/APPROACH 08/TAKE-OFF	Trees	505806.21N 0020838.56W	876 FT		No	
08/APPROACH 26/TAKE-OFF	Trees	505757.04N 0020941.85W	830 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Beacon	505757.77N 0020918.58W	851 FT		No	
	Trees	505755.65N 0020932.62W	882 FT		No	

EGHA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	
2	Hours of service MET Office outside hour	
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	Three camera CCTV covering approach to Runway 08/26.
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGHA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
08	077.16°	799 x 30 M	RWY surface: Grass	505759.37N 0020933.15W 158.0 FT	THR 797.0 FT	
26	257.16°	799 x 30 M	RWY surface: Grass	505805.12N 0020853.20W 158.0 FT	THR 811.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 08
						RWY 26

EGHA AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	799 M	799 M	799 M	799 M	
26	799 M	799 M	799 M	799 M	

EGHA AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGHA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

INTENTIONALLY BLANK

EGHA AD 2.16 HELICOPTER LANDING AREA

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EGHA AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
COMPTON ABBAS ATZ A circle, 2 NM radius, centred at 505802N 0020913W on longest notified runway (08/ 26)	Upper limit: 2000 FT AGL Lower limit: SFC	G	COMPTON RADIO English			

EGHA AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	COMPTON RADIO	122.710 A/G frequency.				ATZ hours coincident with A/G hours.

EGHA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGHA AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) No domestic pets or animals allowed airside, with the exception of dogs, on leads, accompanied by resident or visiting pilots.
b) No formation flights within ATZ without prior permission of Airfield Management.

2 GROUND MOVEMENT

a) Due to prop-wash do not park aircraft facing north in front of the buildings.
b) Please respect grass surfaces, particularly in wet conditions. If landing long please consider another approach in order to avoid excessive braking which can cause the grass surface to be badly damaged.
c) Do not park in front of Polly Tunnel Hangars.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The ground to the north of the runway has a steep slope gradient.
b) Trees along the southern aerodrome boundary will cause turbulence on the approach to Runway 08 and 26 when the wind has a southerly component.
c) Multiple trees penetrate the Approach and Take-Off Surfaces by as much as 23 FT. Multiple trees penetrate the Transitional Surface to south west of the runway by as much as 31 FT.
d) Beacon with strobe in Southern Transition Surface penetrates surface by 9 FT.
e) Check for any aerobatic or other specialist flying activity within the ATZ prior to arrival.
f) Public footpath crosses runway at mid-point, aligned in a NW/SE direction.
g) Do not carry out Orbits, within the Circuit, for spacing or any other purpose.

5 HELICOPTER OPERATIONS

a) Join long final (5 miles) for designated runway, giving way to any established circuit traffic. Parking area to the south east of the aerodrome.

6 USE OF RUNWAYS

a) Aircraft to clear left after landing on Runway 26 and right after landing on Runway 08.
b) The Runway 08/26 QDM markers are located before the start of the runway.
c) 100 M unlicensed extension each end of runway.
d) Do not confuse runway edge lines with a runway centre-line. There is no runway centre-line.

7 TRAINING

a) No training on the airfield without permission of management.

EGHA AD 2.21 NOISE ABATEMENT PROCEDURES

a) Departure.

i. Runway 08 - At end of runway (not before), turn left in order to avoid Hatts Barn Farm.
ii. Runway 26 - At end of runway (not before), turn right, in order to avoid Compton Abbas village, tracking over the crest of Melbury Hill.

EGHA AD 2.22 FLIGHT PROCEDURES

a) Circuit directions: Runway 26 - RH; Runway 08 - LH.
b) All traffic to join overhead or dead-side descending to 1800 FT QNH to cross the upwind runway numbers. All circuits to the north. Circuit altitude 1800 FT QNH. QFE available on request.

EGHA AD 2.23 ADDITIONAL INFORMATION

a) Standard overhead and dead-side joins suspended on published days of Spitfire operations. See website and NOTAM.

EGHA AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHA-2-1
CIRCUIT JOINING and NOISE ABATEMENT PROCEDURES
AD 2.EGHA-4-1

EGHA AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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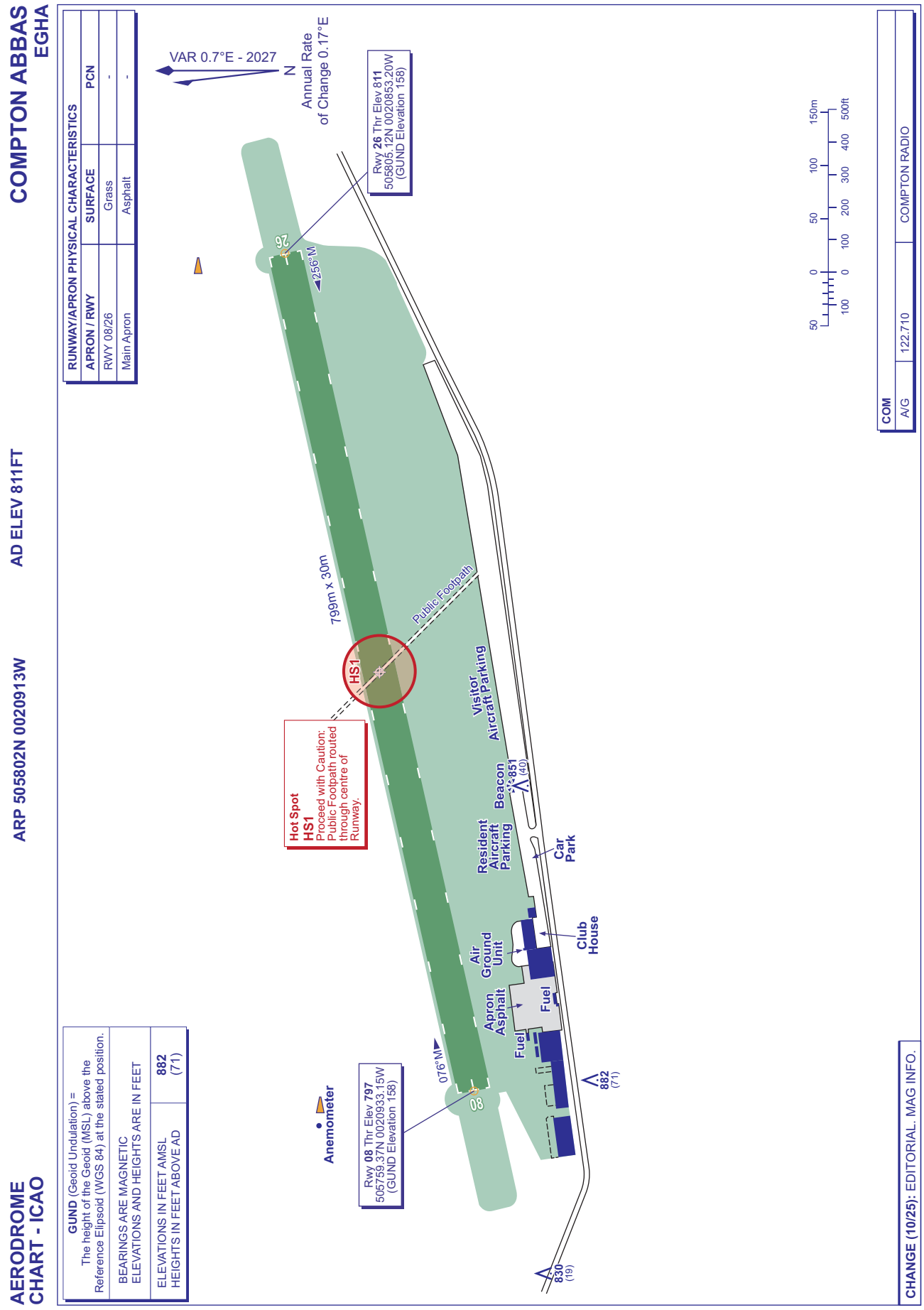
COMPTON ABBAS
EGHA
AERODROME CHART - ICAO
ARP 505802N 0020913W
AD ELEV 811FT
RUNWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY
SURFACE
PCN
RWY 08/26
Grass
-
Main Apron
Asphalt
-
VAR 0.7°E - 2027
N
Annual Rate of Change 0.17°E
Rwy 26 Thr Elev 811
505805.12N 0020853.20W
(GUND Elevation 158)
26
256°M
799m x 30m
Public Footpath
HS1
Hot Spot
HS1
Proceed with Caution:
Public Footpath routed through centre of Runway.
Visitor Aircraft Parking
Beacon
851
(40)
Resident Aircraft Parking
Car Park
Club House
Air Ground Unit
Apron Asphalt
Fuel
Fuel
882
(71)
076°M
08
Anemometer
Rwy 08 Thr Elev 797
505759.37N 0020933.15W
(GUND Elevation 158)
830
(19)
50 100 0 50 100 0 100 200 300 400 500ft
150m
COM
A/G
122.710
COMPTON RADIO
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
882
(71)
CHANGE (10/25): EDITORIAL. MAG INFO.

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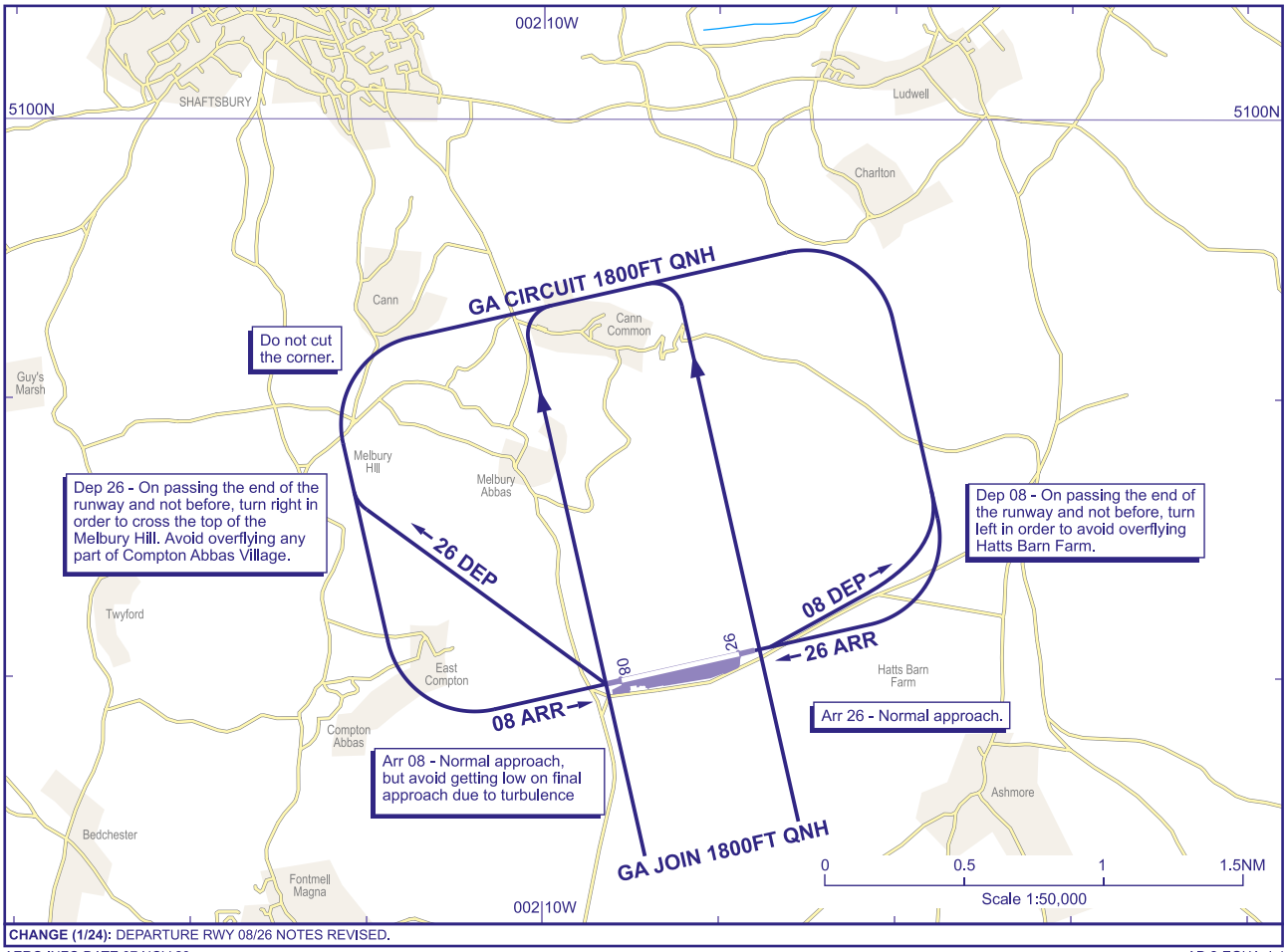
CIRCUIT JOINING AND NOISE ABATEMENT PROCEDURES — COMPTON ABBAS



CHANGE (1/24): DEPARTURE RWY 08/26 NOTES REVISED.

AERO INFO DATE 07 NOV 23

AD 2-EGHA-4-1

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EGBE — COVENTRY

EGBE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBE — COVENTRY

EGBE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 522211N Long: 0012847W Mid point of Runway 05/23.
2	Direction and distance from city	3 NM SSE of Coventry.
3	Elevation / Reference temperature / Mean Low Temperature	267 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	160 FT
5	Magnetic Variation / Annual Change	0.82°E (2027) / 0.18°E
6	AD Administration Address Telephone AFS E-mail address Web address	COVENTRY AIRPORT LTD Control Tower, Coventry Airport, Rowley Road, Coventry, CV3 4FR, England. 02476-308600 (Administration) 02476-511738 (ATS) 02476-308601 (Handling) 07904-639092 (Handling - Mobile) EGBEZTZX enquiries@coventryairport.co.uk www.coventryairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	TA: Beneath the Birmingham CTA. Telephone calls to ATS are recorded.

EGBE AD 2.3 OPERATIONAL HOURS

1	AD Administration	Tue-Sat 0900-1700 (0800-1600); Sun-Mon closed. Helimed traffic only 0830-0900 (0730-0800). All movements strictly PPR via www.coventryairport.co.uk, alternatively telephone ATS: 02476-511738. All UAS requests to be sent to: safeguarding@coventryairport.co.uk. Other times by out of hours indemnity permission or by arrangement with AD authority, unless AD closed by NOTAM due adverse weather.
2	Customs and immigration	On request.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See item AD 2.18.
8	Fuelling	As AD hours.
9	Handling	Coventry Airport Limited: As AD hours.
10	Security	H24
11	De-icing	
12	Remarks	

EGBE AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	AVTUR JET A-1 - 2 bowsers, total storage 23,000 LT. Overground tanks 52,000 LT total storage. AVGAS 100LL - Fixed pump on West Apron. 25,000 LT total storage. 1 Bowser, total storage 5,000 LT.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Available on request from aerodrome administration.
6	Repair facilities for visiting aircraft	Yes.

7	Remarks	Oxygen and related servicing by arrangement. To assist with aircraft parking planning, compulsory handling and PPR is required for all non-based aircraft with a maximum AUW of 3000 KG and above. Operators are to request aircraft handling through the following handling agent: Coventry Airport Ltd. Tel: 02476-308601; e-mail: handling@coventryairport.co.uk

EGBE AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity (1 mile).
2	Restaurants	The Oak, Baginton. 1/8 mile.
3	Transportation	Buses, Taxis. Nearest railway station, Coventry 2.7 miles.
4	Medical facilities	First aid available from the Airport Fire Service.
5	Bank and Post Office	Styvechale Post Office, Baginton Rd. 2.4 miles.
6	Tourist Office	Coventry Tourist Information Office, Jordan Well, Coventry. 4 miles.
7	Remarks	

EGBE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 1 Tue-Sat RFF Category 2 available on request. RFF Category 3 accepted under remission.
2	Rescue equipment	1 x RFF Category 2 vehicle.
3	Capability for removal of disabled aircraft	Limited, up to 12,000 KG MTWA.
4	Remarks	

EGBE AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Latest information from ATS Tel: 02476-511738.

EGBE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	AIR-LOCK Surface: Asphalt PCN 53/R/B/X/U BRAVO Surface: Concrete PCN 48/R/B/X/T DAKOTA Surface: Asphalt PCN 53/R/B/X/U EASTERN LIGHT Surface: Grass HANGAR 4 Surface: Asphalt PCN 53/R/B/X/U WEST Surface: Asphalt PCN 53/R/B/X/U

2	Taxiway width, surface and strength	Taxiway A AIRPARK-KILO: 12 M Surface: Asphalt PCN 53/R/B/X/U Taxiway A BRAVO-AIRPARK: 7.5 M Surface: Grass Taxiway A RWY-WEST: 18 M Surface: Asphalt PCN 48/F/B/X/U Taxiway A WEST-BRAVO: 15 M Surface: Asphalt PCN 53/R/B/X/U Taxiway B BRAVO TAXILANE: 15 M Surface: Concrete PCN 48/R/B/X/T Taxiway B BRAVO1-BRAVO2: 15 M Surface: Asphalt PCN 19/F/A/X/T Taxiway B RWY-BRAVO 1: 30 M Surface: Asphalt PCN 19/F/A/X/T Taxiway C: 30 M Surface: Asphalt PCN 19/F/A/X/T Taxiway E: 18 M Surface: Asphalt PCN 48/F/B/X/T Taxiway GRASS LINK K-J: 15 M Surface: Grass Taxiway J: 7.5 M Surface: Asphalt and grass 5 M asphalt with 1.25 M grass either side Taxiway K: 12 M Surface: Asphalt PCN 53/R/B/X/U
3	Altimeter checkpoint location and elevation	Bravo Apron 273 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	Taxiway A BRAVO-AIRPARK only available with permission of duty AFISO.

EGBE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Bravo Apron: Stand 1, designated to accommodate aircraft with a wingspan up to 31 M, eg B737-500, Gulfstream G650. Where meteorological conditions dictate, aircraft may be parked in a non-standard position providing the aircraft remains in the confines of the stand markings. West Apron: Designated stands are 2, 3 and 4 used for business aviation aircraft. Stand 2 for a maximum wingspan of 16.3 M. Stand 3 for a maximum wingspan of 17.6 M. Stand 4 for a maximum wingspan of 17 M. Please note there is a Section 106 agreement restriction on the West Apron for aircraft exceeding 9 tonnes.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Runway designation, runway centre-line, fixed distance, touchdown zone and runway threshold markings. Runway light(s): Amber guard lights at holds: 'Alpha 1', 'Bravo 1', 'Charlie 1', 'Echo', 'Juliet' and 'Kilo'.

		Taxiway marking aid(s): Taxi-holding position.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Holding point indicator signs. Wind direction indicators near threshold of Runways 05 and 23. 522219.33N 0012822.66W (LGTD) - 522203.36N 0012911.00W (LGTD).

EGBE AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBE38) 23/APPROACH 05/TAKE-OFF	PYLON	522312.00N 0012713.58W	377 FT		No	
(EGBE39) 23/APPROACH 05/TAKE-OFF	PYLON	522309.88N 0012702.39W	375 FT		No	
(EGBE9630) 23/APPROACH 05/ TAKE-OFF	TREE	522259.79N 0012734.54W	356 FT		No	
(EGBE8653) 23/APPROACH 05/ TAKE-OFF	AERIAL	522244.91N 0012800.27W	299 FT		No	
(EGBE9146) 23/APPROACH 05/ TAKE-OFF	CCTV	522244.14N 0012800.84W	289 FT		No	
(EGBE9336) 23/APPROACH 05/ TAKE-OFF	HEDGE	522236.67N 0012757.82W	271 FT		No	
(EGBE9831) 05/APPROACH 23/ TAKE-OFF	TREE	522128.50N 0012952.08W	352 FT		No	
(EGBE10376) 05/APPROACH 23/ TAKE-OFF	TREE	522127.44N 0012951.88W	369 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBE9083)	MAST	522658.36N 0012349.18W	543 FT		No	
(EGBE9510)	SPIRE	522430.57N 0013031.86W	523 FT		No	
(EGBE9511)	SPIRE	522428.73N 0013029.02W	577 FT		No	
(EGBE3019)	MAST	522402.74N 0013243.28W	532 FT		No	
(EGBE9521)	CHIMNEY	522345.19N 0012930.59W	532 FT		No	
(EGBE4003)	PYLON	522335.58N 0012839.75W	385 FT		No	
(EGBE8912)	MAST	522322.12N 0012618.29W	381 FT		No	
(EGBE39) 23/APPROACH 05/TAKE-OFF	PYLON	522309.88N 0012702.39W	375 FT		No	
(EGBE9523)	TREE	522308.79N 0012908.80W	380 FT		No	
(EGBE40)	PYLON	522307.52N 0012649.77W	385 FT		No	
(EGBE3283)	TREE	522118.84N 0012520.13W	402 FT		No	
(EGBE3619)	TREE	522118.06N 0012521.60W	403 FT		No	
(EGBE3614)	TREE	522110.10N 0012459.84W	414 FT		No	
(EGBE3014)	AERIAL	521801.82N 0013034.00W	481 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBE3015)	AERIAL	521801.69N 0013033.98W	462 FT		No	
(EGBE3016)	BUILDING	521801.44N 0013034.77W	443 FT		No	
(EGBE3018)	MAST	521740.02N 0013108.42W	461 FT		No	

EGBE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone Coventry ATS.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	Weather warnings, Internet access, Hourly unofficial observations.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	COVENTRY
10	Additional information (limitation of service, etc.)	Hourly unofficial observations only available during AFIS operating hours.

EGBE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05	047.36°	1825 x 46 M	RWY surface: Asphalt PCN 48/F/B/X/U	522153.62N 0012918.26W 160.1 FT	THR 266.7 FT	
23	227.37°	1825 x 46 M	RWY surface: Asphalt PCN 48/F/B/X/U	522229.03N 0012815.43W 160.0 FT	THR 265.0 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
180 x - M	250 x 150 M	- x 280 M	90 x - M 183 x - M		1860 x 120 M	RWY 05 Aiming point markings are 306 M from the threshold.
93 x - M	234 x 150 M	- x 280 M	90 x - M 231 x - M		1860 x 120 M	RWY 23 Threshold displaced by 209 M. Aiming point markings are 306 M from the threshold.

EGBE AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	1615 M	1865 M	1795 M	1615 M	
23	1825 M	2059 M	1918 M	1615 M	
05	1544 M	1794 M	1724 M		Take-off from intersection with Taxiway A.
05	1033 M	1283 M	1213 M		Take-off from intersection with Taxiway B.
05	722 M	972 M	902 M		Take-off from intersection with Taxiway E.
05	488 M	738 M	668 M		Take-off from intersection with Taxiway K.
23	1228 M	1462 M	1321 M		Take-off from intersection with Taxiway J.
23	1138 M	1372 M	1231 M		Take-off from intersection with Taxiway K.
23	911 M	1146 M	1005 M		Take-off from intersection with Taxiway E.
23	617 M	852 M	711 M		Take-off from intersection with Taxiway B.

EGBE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	Centre-line with one crossbar at 300 M from threshold. 420 M Light intensity high	Green Light intensity high Inset With elev HI green wingbars	PAPI Left/3° 50 FT 295 M			Elev HI bi-directional with LI omni-directional component 1615 M 60 M White with Yellow caution zone	Elevated Red Light intensity high	Elev edge Inset stop end 180 M Red Light intensity high	END: Runway end lights delineate the extremity of the manoeuvring area.
23	Coded centre-line with two crossbars. 415 M Light intensity high	Green Light intensity high Inset With elev HI green wingbars	PAPI Left/3° 56 FT 365 M			Elev HI bi-directional with LI omni-directional component 1825 M 60 M White with Yellow caution zone	Inset Red Light intensity high	Elev 90 M Red Light intensity high	

EGBE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	LDI: Not available. Anemometer: 522225.37N 0012830.22W (LGTD), 522156.90N 0012903.06W (LGTD).
3	TWY edge and centre line lighting	EDGE: Blue edge lights on Taxiway A from Airpark to Taxiway K.
4	Secondary power supply/switch-over time	Airport generator on permanent standby/Less than 5 seconds.
5	Remarks	Apron floodlights on Bravo and West Apron.

EGBE AD 2.16 HELICOPTER LANDING AREA

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EGBE AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
COVENTRY ATZ A circle, 2.5 NM radius, centred at 522211N 0012847W on longest notified runway (05/23)	Upper limit: 2000 FT AGL Lower limit: SFC	G	COVENTRY INFORMATION English	6000 FT		Coventry ATZ lies partly within the Birmingham CTA. Base of Birmingham CTA 1500 FT QNH (1233 FT QFE). See AD 2.22.

EGBE AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	COVENTRY INFORMATION	123.830 DOC 20 NM/6000 FT.			Tue-Sat 0900-1700 (0800-1600); Sun-Mon closed.	ATZ hours coincident with AFIS hours.
OTHER	COVENTRY FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGBE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGBE AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Non-radio aircraft not accepted.
b) Pilots are required to 'book in/out' online for all flights at www.coventryairport.co.uk. Telephone PPR is a back-up only.
c) Run and break manoeuvres by civilian aircraft are not permitted. Military aircraft can perform a run and break manoeuvre only if no other traffic is in the circuit.
d) If visibility is at 1500 M and forecast to deteriorate, visibility (as assessed by ATS) will be below AD requirements. AD will only be available to rotary/emergency services rotary traffic.

2 GROUND MOVEMENT

a) Apron Parking - as advised by ATS.
b) Light Aircraft Parking - visiting pilots shall be directed to the West apron or eastern light aircraft park.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Except for light signals, ground signals will not be displayed.
b) Bird scaring takes place regularly.
c) Turbulence may occur on final approach to Runway 23 during strong south westerly winds as aircraft cross the eastern bypass (Tollbar) roundabout.
d) Pilots are warned of helicopter activity in and out of Walsgrave Hospital helipad situated just north of Runway 23 final approach, approximately 3.5 NM from touchdown. Possibility of a TCAS alert on final approach to 23 or climb-out from 05 due to the proximity of the hospital helipad.
e) Pilots are warned of radio controlled aircraft activity from a private site approximately 3 NM east of Coventry airport, 0.5 miles southeast of Wolston village.
f) Pilots of arriving and departing aircraft shall remain outside Birmingham Controlled Airspace at all times. The base of Birmingham Controlled Airspace overhead and to the southwest of Coventry Airport is altitude 1500 FT.

g) Pilots are warned that unauthorised ground based laser lights have been directed towards aircraft in the vicinity of the aerodrome. All incidents should be reported immediately via the Tower to the Airport Authority.
h) Retail Park under Runway 23 final approach. Industrial/Business park to the southeast.
i) Intensive bird activity around/on the aerodrome due to construction work at multiple locations outside of the aerodrome boundary. Large gull attractant at waste landfill site, immediately south of Bubbenhall village.

5 HELICOPTER OPERATIONS

a) Helicopters to land as advised by ATS.
b) Helicopters will operate to the runway, circuit height for rotary traffic is 700 FT AAL. ATS will brief on circuit details when booking in/out by phone.
c) Non-based helicopter operators not familiar with parking procedures must request marshaller assistance from ATS.

6 USE OF RUNWAYS

a) Except in an emergency, pilots must not use Runway 23 stopway for normal operations.
b) Circuit height will be 1000 FT AAL.
c) Circuits will not normally be permitted when MET visibility is **LESS** than 3000 M and/or cloud base is **LESS** than 800 FT. Low level circuits, when permitted, will be conducted not below 600 FT AAL.
d) All light aircraft holding at Bravo 1, Juliet or Kilo, that require a backtrack prior to take-off, should advise ATS of their requested departure point in relation to the adjacent hold before entering the runway; or request full length.

7 TRAINING

a) Use of the airport for training purposes is subject to the following conditions:

i. Circuits will normally be orientated to the south of the aerodrome, i.e. Right hand circuit Runway 05, Left hand circuit Runway 23.
ii. No training flights by aircraft with a Maximum Certified Weight of more than 5700 KG are permitted on Sundays or Public Holidays.
iii. Not more than one aircraft with a Maximum Certified Weight of more than 5700 KG shall use the airport for training purposes at any one time.

8 UNMANNED AIRCRAFT

a) UAS survey area West, operating within area bounded by:

522146N	0013237W	-	521951N	0012925W	-
521928N	0013009W	-	522044N	0013240W	-

522146N 0013237W (vicinity of Kenilworth and Stoneleigh).

Maximum height 394 FT AGL. Elevation 650 FT AMSL. Area will be activated by NOTAM.

EGBE AD 2.21 NOISE ABATEMENT PROCEDURES

Noise Preferential Routeings and Procedures – all aircraft inbound or outbound from this aerodrome are required to conform to the procedures listed below, notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

a) Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the aerodrome. In particular, aircraft operators should avoid overflight of the noise sensitive areas of Binley Woods and Ryton-on-Dunsmore (05 departures, 23 arrivals), Stoneleigh and Stareton hamlet (05 arrivals, 23 departures).
b) Air Traffic Service will select the runway in use, having regard to wind, cloud base, aircraft performance limitations and environmental considerations.
c) Ground running of aircraft engines shall be subject to the approval of ATS and shall be kept to a minimum, consistent with operational needs.

EGBE AD 2.22 FLIGHT PROCEDURES

1 ARRIVALS

a) Due to the proximity of Birmingham's controlled airspace (CTA2) over the airport, overhead joins are not possible at Coventry.
b) To join for Runway 23, route to Draycote Water VRP and join on left base giving way to circuit traffic as appropriate.
c) For Runway 05, route to Southam VRP and join on right base giving way to circuit traffic as appropriate.
d) Straight in approaches are available on request, giving way to circuit traffic as appropriate.

2 RADIO COMMUNICATIONS FAILURE PROCEDURES

Coventry does not accept non-radio aircraft. In the event of an emergency and radio failure and the pilot has no option other than to land at Coventry, remain outside of CAS at all times, squawk 7600 for Birmingham.

3 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

4 BIRMINGHAM CONTROLLED AIRSPACE

a) Due to the complexities of adjacent CAS, pilots are reminded to ensure that their flight remains clear of the Birmingham CTR/CTA unless ATC clearance is issued.
b) Base of Birmingham CTA 1500 FT QNH (1233 FT QFE). Pilots must remain outside of CAS, unless cleared to enter by Birmingham ATC. The portion of Coventry's ATZ inside the Birmingham CTA is under the direct control of Birmingham ATC and not Coventry ATS.

5 COMMUNICATIONS AND SSR

a) Aircraft in communication with Coventry ATS may be allocated a conspicuity squawk of 0420. Aircraft must not select this squawk unless instructed to do so by ATS.
b) Aircraft remaining in the circuit at Coventry will be allocated a conspicuity squawk of 7010. Aircraft must not select this squawk unless instructed to do so by ATS.
c) Allocation of either of these conspicuity squawks does not constitute any radar service.

6 PROCEDURES FOR IFR FLIGHTS VIA THE ATS ROUTE NETWORK

a) **Outbound IFR Aircraft (Northbound)**

Aircraft departing Coventry IFR to the NORTH should plan to join CAS at TRENT.

b) **Inbound IFR Aircraft**

i. Aircraft inbound via the ATS Route Network must file to route via the Birmingham Standard Arrival Routes (STAR) as shown at AD 2-EGBB-7-2 to 7-4. Pilots are to include EGBBZTZX in their Flight Plan.
ii. After leaving the ATS Route System, pilots may be provided with a radar service outside CAS by Birmingham Radar, or transferred directly to Coventry Information.
iii. An onward contact frequency will be given by London Control before leaving the ATS Route System.

c) **Loss of Communications Procedures (inbound IFR aircraft)**

Aircraft should descend to leave CAS at an appropriate point and proceed outside CAS in accordance with the Loss of Communications Procedures detailed at ENR 1.1 paragraph 3.4.

EGBE AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBE AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBE-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGBE-2-2

EGBE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 522211N 0012847W

AD ELEV 267FT

COVENTRY
EGBE

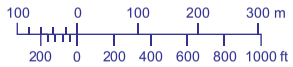
COM		
AFIS	123.830	COVENTRY INFORMATION
TWR	121.600	COVENTRY FIRE

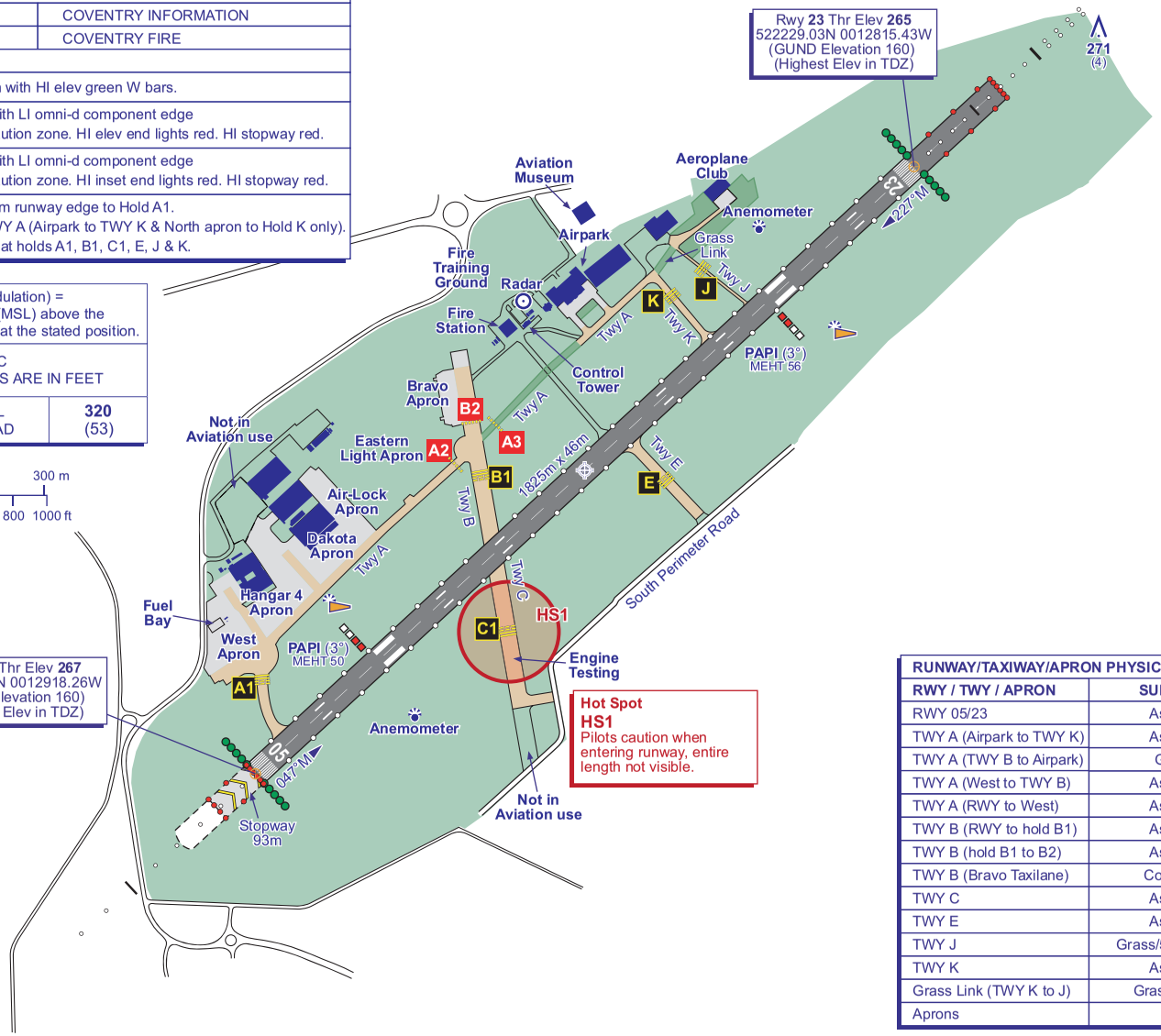
LIGHTING	
THR 05/23	HI inset green with HI elev green W bars.
RWY 05	HI elev bi-d with LI omni-d component edge with yellow caution zone. HI elev end lights red. HI stopway red.
RWY 23	HI elev bi-d with LI omni-d component edge with yellow caution zone. HI inset end lights red. HI stopway red.
TWY	Green C/L from runway edge to Hold A1. Blue edge TWY A (Airpark to TWY K & North apron to Hold K only). Guards lights at holds A1, B1, C1, E, J & K.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	320
HEIGHTS IN FEET ABOVE AD	(53)







RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	PCN
RWY 05/23	Asphalt	48/F/B/X/U
TWY A (Airpark to TWY K)	Asphalt	53/R/B/X/U
TWY A (TWY B to Airpark)	Grass	-
TWY A (West to TWY B)	Asphalt	53/R/B/X/U
TWY A (RWY to West)	Asphalt	48/F/B/X/U
TWY B (RWY to hold B1)	Asphalt	19/F/A/X/T
TWY B (hold B1 to B2)	Asphalt	19/F/A/X/T
TWY B (Bravo Taxilane)	Concrete	48/R/B/X/T
TWY C	Asphalt	19/F/A/X/T
TWY E	Asphalt	48/F/B/X/T
TWY J	Grass/5m Asphalt	-
TWY K	Asphalt	53/R/B/X/U
Grass Link (TWY K to J)	Grass (15m)	-
Aprons	See AD 2-EGBE 2-2	

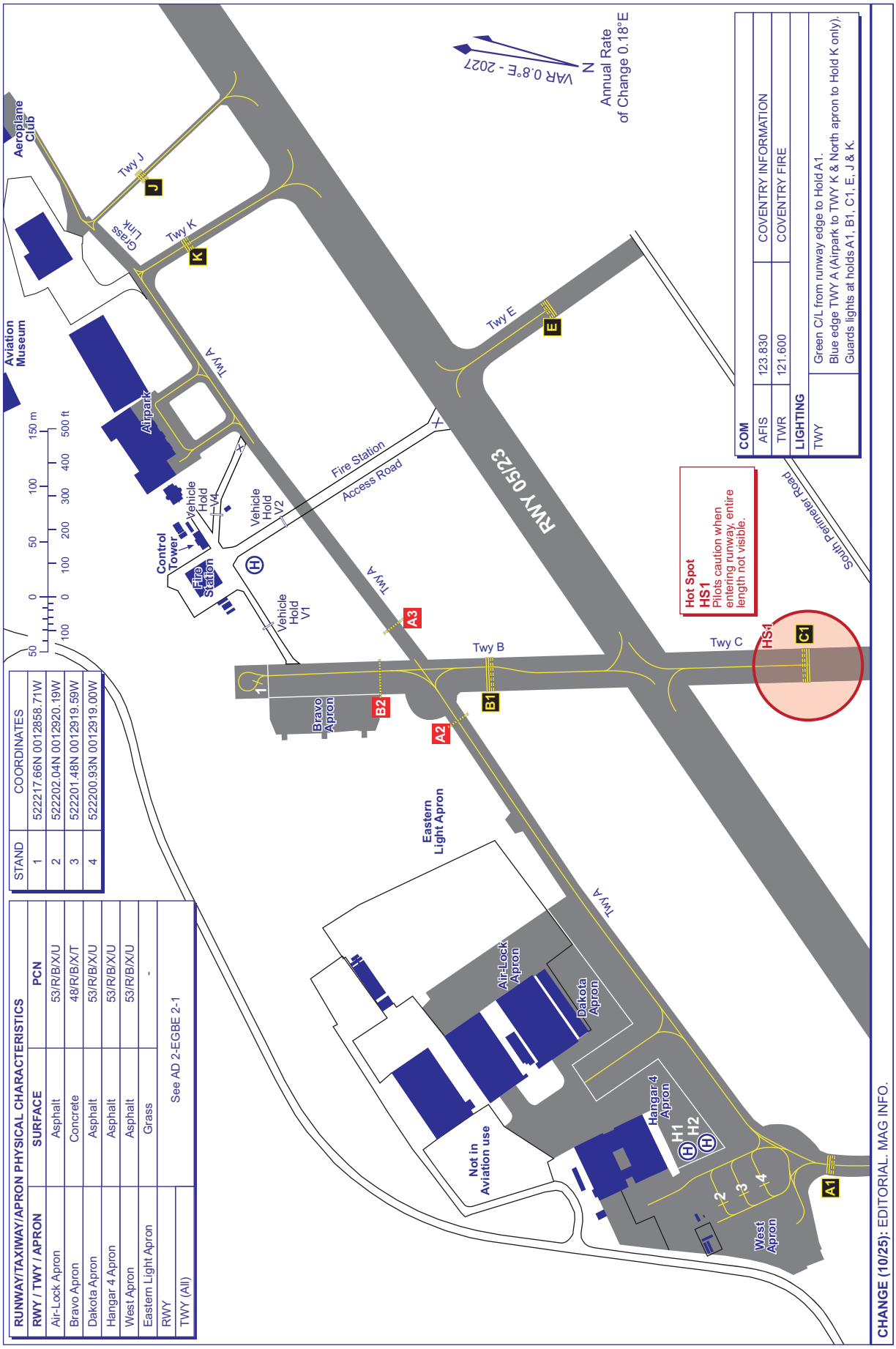
CHANGE (10/25): EDITORIAL. MAG INFO.

COVENTRY EGBE

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 522211N 0012847W

AD ELEV 267FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	PCN
Air-Lock Apron	Asphalt	53/R/B/X/U
Bravo Apron	Concrete	48/R/B/X/T
Dakota Apron	Asphalt	53/R/B/X/U
Hangar 4 Apron	Asphalt	53/R/B/X/U
West Apron	Asphalt	53/R/B/X/U
Eastern Light Apron	Grass	-
RWY	See AD 2-EGBE 2-1	
TWY (All)		

STAND	COORDINATES
1	522217.66N 0012858.71W
2	522202.04N 0012920.19W
3	522201.48N 0012919.59W
4	522200.93N 0012919.00W

AERO INFO DATE 18 JUL 25

EGTC — CRANFIELD

EGTC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTC — CRANFIELD

EGTC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 520420N Long: 0003700W Mid point of Runway 03/21.
2	Direction and distance from city	7 NM SW of Bedford.
3	Elevation / Reference temperature / Mean Low Temperature	360 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	154 FT
5	Magnetic Variation / Annual Change	0.31°E (2022) / 0.20°E
6	AD Administration Address Telephone E-mail address Web address	CRANFIELD UNIVERSITY Cranfield Airport, Cranfield University, Cranfield, Bedfordshire, MK43 0AL. 01234-758150 (Airport Administration) 01234-750005 (ATC) 01234-758114 (Aircraft Handling) 01234-754562 (Airport Operations) 01234-758151 (Airport Accounts) airport@cranfield.ac.uk airportaccounts@cranfield.ac.uk www.cranfieldairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Landing fees paid using Airport Accounts telephone number 01234-758151 or via the Cranfield Airport website. No landing fee payment facilities on site. Visiting pilots wishing to leave the aerodrome are to follow signs via the RVP gate remaining clear of the manoeuvring area.

EGTC AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0800-1830 (0700-1730); Sat, Sun & PH 0900-1800 (0800-1700).
2	Customs and immigration	By arrangement. 24 hours notice required to ATC.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	Mon-Fri 0800-1800 (0700-1700); Sat, Sun & PH 0900-1730 (0800-1630).
9	Handling	
10	Security	
11	De-icing	
12	Remarks	All movements are strictly PPR. Telephone ATC 01234-750005 for PPR. Aircraft will not normally be accepted beyond Mon-Fri 1815 (1715); Sat, Sun and PH 1745 (1645) unless an extension of hours has been confirmed. Unlicensed movements not accepted.

EGTC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL, SAF JET A-1 DTD 585, Aeroshell Compound 06, W80, W100
3	Fuelling facilities/capacity	No rotors running refuel available.
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	Handling mandatory for aircraft above 2700 KG. All fuelling requests should be made by text message direct to the refuellers 07900-738194 and not via ATC.

EGTC AD 2.5 PASSENGER FACILITIES

1	Hotels	On Aerodrome.
2	Restaurants	Cafe on site.
3	Transportation	Taxi, hire car, chauffeur services on request.
4	Medical facilities	
5	Bank and Post Office	On Aerodrome.
6	Tourist Office	
7	Remarks	Executive and pilot lounges available for handled aircraft.

EGTC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4 RFF Category 2 available Sat & Sun. RFF Category 4 avaliable Mon-Fri. RFF Category 5 available on request, subject to availability by prior arrangement with Airport Administration.
2	Rescue equipment	Appropriate up to RFF Category 6.
3	Capability for removal of disabled aircraft	In the event of an incident, light aircraft can be removed using airport resources. Large aircraft can be removed using an external contractor in conjunction with aircraft operator.
4	Remarks	

EGTC AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGTC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON 1 Surface: Asphalt APRON 2 Surface: Asphalt APRON 3 Surface: Asphalt APRON 4 Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A: 15 M Taxiway B: 15 M Taxiway C: 15 M Taxiway E: 15 M
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGTC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI (LGTD): 520439.57N 0003650.42W, 520350.46N 0003717.08W.

EGTC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTC5070) 21/APPROACH 03/ TAKE-OFF	TREE	520524.33N 0003600.17W	420 FT	76 FT	No	
(EGTC4336) 21/APPROACH 03/ TAKE-OFF	MAST LC	520449.49N 0003617.94W	407 FT	55 FT	No	
(EGTC3876) 03/APPROACH 21/ TAKE-OFF	FENCE	520355.50N 0003729.37W	365 FT	5 FT	No	
(EGTC3877) 03/APPROACH 21/ TAKE-OFF	FENCE	520355.39N 0003729.12W	365 FT	5 FT	No	
(EGTC1180) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520355.03N 0003729.73W	376 FT	16 FT	No	
(EGTC1179) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520354.68N 0003728.71W	377 FT	16 FT	No	
(EGTC3881) 03/APPROACH 21/ TAKE-OFF	FENCE	520354.42N 0003727.30W	366 FT	5 FT	No	
(EGTC1178) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520354.26N 0003727.72W	377 FT	16 FT	No	
(EGTC3882) 03/APPROACH 21/ TAKE-OFF	FENCE	520354.17N 0003726.83W	366 FT	5 FT	No	
(EGTC3883) 03/APPROACH 21/ TAKE-OFF	FENCE	520353.98N 0003726.48W	366 FT	5 FT	No	
(EGTC1177) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520353.90N 0003726.95W	377 FT	16 FT	No	
(EGTC3872) 03/APPROACH 21/ TAKE-OFF	FENCE	520353.79N 0003726.08W	366 FT	6 FT	No	
(EGTC1176) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520353.43N 0003725.99W	377 FT	16 FT	No	
(EGTC3869) 03/APPROACH 21/ TAKE-OFF	FENCE	520353.03N 0003724.52W	367 FT	6 FT	No	
(EGTC1175) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520352.91N 0003724.93W	378 FT	16 FT	No	
(EGTC3868) 03/APPROACH 21/ TAKE-OFF	FENCE	520352.80N 0003724.03W	367 FT	6 FT	No	
(EGTC3867) 03/APPROACH 21/ TAKE-OFF	FENCE	520352.51N 0003723.42W	368 FT	5 FT	No	
(EGTC1174) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520352.50N 0003724.06W	378 FT	16 FT	No	
(EGTC1173) 03/APPROACH 21/ TAKE-OFF	ROAD 4 8	520352.07N 0003723.04W	379 FT	16 FT	No	
(EGTC3908) 03/APPROACH 21/ TAKE-OFF	HEDGE	520351.99N 0003722.44W	368 FT	5 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTC3535)	TURBINE	520734.87N 0003943.15W	720 FT	406 FT	No	
(EGTC3922)	CCTV ATC	520425.71N 0003709.54W	434 FT	89 FT	Yes Red	
(EGTC4431)	TREE	520425.11N 0003744.69W	440 FT	103 FT	No	
(EGTC3992)	BLDG AERIAL	520414.66N 0003749.03W	432 FT	87 FT	No	
(EGTC4641)	RADAR	520402.92N 0003737.96W	402 FT	49 FT	Yes Red	
(EGTC4381)	TREE LARGE	520337.20N 0003631.67W	454 FT	87 FT	No	
(EGTC4403)	TREE	520259.46N 0003633.63W	464 FT	79 FT	No	
(EGTC4486)	MAST	515955.86N 0004011.29W	771 FT	216 FT	No	

EGTC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 Hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/telephone
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	CRANFIELD
10	Additional information (limitation of service, etc.)	

EGTC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
03	031.73°	1799 x 45 M	RWY surface: Asphalt PCN 30/F/B/X/U	520400.47N 0003719.28W 154.0 FT	THR 358.2 FT	
21	211.74°	1799 x 45 M	RWY surface: Asphalt PCN 30/F/B/X/U	520444.32N 0003635.27W 154.0 FT	THR 357.9 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
		1879 x 280 M				RWY 03 Threshold displaced by 206 M.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	127 x 150 M	1879 x 280 M	90 x - M -			RWY 21 OFZ: Yes.

EGTC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	1799 M	1799 M	1799 M	1593 M	
21	1672 M	1799 M	1672 M	1672 M	
21	1306 M	1433 M	1306 M		Take-off from intersection with Hold Bravo 1.
21	953 M	1080 M	953 M		Take-off from intersection with Hold Charlie 1.

EGTC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	Centre-line with two crossbars. 405.5 M Light intensity high	Green Light intensity high Inset With green elevated wingbars	PAPI Right/3° 42 FT 288 M			Elevated coded omni-directional Light intensity high	Red		
21	Centre-line with two crossbars. 450 M Light intensity high	Green Light intensity high Elevated with green wingbars	PAPI Left/3° 53 FT 373 M			Elevated coded omni-directional Light intensity high	Red		EDGE: Colour coded commencing 625 M before runway end.

EGTC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 520431.43N 0003638.55W (LGTD).
3	TWY edge and centre line lighting	CL: Bi-directional green reflectors on taxiway centre-line.
4	Secondary power supply/switch-over time	Secondary power supply available with a 15 second changeover time.
5	Remarks	Taxiway lighting is unavailable.

EGTC AD 2.16 HELICOPTER LANDING AREA

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EGTC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CRANFIELD ATZ A circle, 2 NM radius, centred at 520420N 0003700W on longest notified runway (03/ 21)	Upper limit: 2000 FT AGL Lower limit: SFC	G	CRANFIELD APPROACH English	6000 FT		

EGTC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	CRANFIELD APPROACH	122.855 DOC 25 NM/6,000 FT.			Mon-Fri 0800-1830 (0700-1730); Sat, Sun & PH 0900-1800 (0800-1700).	ATZ hours coincident with Approach hours. VDF 520445.27N 0003645.84W On AD.
TWR	CRANFIELD TOWER	122.855			When directed by ATC	VDF 520445.27N 0003645.84W On AD.
		134.930 DOC 30 NM/4,000 FT.			Mon-Fri 0800-1830 (0700-1730); Sat, Sun & PH 0900-1800 (0800-1700).	
ATIS	CRANFIELD DEPARTURE INFORMATION	121.880 DOC 2 NM/GND.			Mon-Fri 0800-1830 (0700-1730); Sat, Sun & PH 0900-1800 (0800-1700).	
OTHER	CRANFIELD FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGTC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC 1.13°E (2027)	ICR	108.900 MHz	Mon-Fri 0830-1900 (0730-1800); Sat, Sun & PH 0900-1800 (0800-1700).	520346.01N 0003733.78W		(RWY 21) LOC only. LOC not to be used for practice auto-coupled landings. LOC may show fluctuations due to road traffic.
NDB (L) 1.15°E (2027)	CIT	850.000 kHz	Mon-Fri 0830-1900 (0730-1800); Sat, Sun & PH 0900-1800 (0800-1700).	520748.56N 0003324.77W		Range 15 NM.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	ICR	26X 108.900 MHz	Mon-Fri 0830-1900 (0730-1800); Sat, Sun & PH 0900-1800 (0800-1700).	520424.52N 0003702.87W	364 FT	(RWY 21) On AD. DME freq paired with LOC I-CR. Zero range is indicated at THR of Runway 21.

EGTC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of this airport is subject to the published schedule of fees, charges and conditions, copies of which are available from Airport Administration.
b) Cranfield is strictly PPR and does not accept diversions or nominations as a flight plan alternate aerodrome without approval from the Aerodrome Authority via atc@cranfield.ac.uk, 01234-750005 (2699 KG MTOW and below) or airporthandling@cranfield.ac.uk, 01234-758114 (2700 KG MTOW and above).
All aircraft 2699 KG MTOW and below are required to request PPR from ATC via telephone 01234-750005 or email atc@cranfield.ac.uk.
All aircraft 2700 KG MTOW and above and NOT conducting circuit or instrument training are required to request PPR via airporthandling@cranfield.ac.uk.
c) Permission to use the airport, either to land or depart, may be withdrawn without notice. Withdrawal of permission may occur due to prevailing weather conditions, if it is considered that the requirements of the airport's Safety Management System cannot be met.
d) The carriage of Dangerous Goods, as specified by The Air Navigation (Dangerous Goods) Regulations 2002, is prohibited unless written approval has been issued by the Airport Director.
e) All aircraft with the intention to depart or to taxi for engineering purposes are required to obtain start approval from ATC before starting engines.
f) Use of the airport by non-radio equipped aircraft **is not** permitted.
g) Use of the airport by training flights is subject to compliance with the requirements set out below.
h) While airside, each aircraft commander is responsible for the safety of his passengers and other crew members. Passengers are at all times to be escorted by the aircraft commander or a crew member who is known to be competent to ensure both his/her and the passengers safety. The wearing of high visibility clothing is required.
i) Aircraft commanders or crew members, as applicable, are responsible for ensuring that a total ban on smoking while airside is observed.

2 GROUND MOVEMENT

a) Extreme caution is necessary on paved and unpaved apron areas where surface markings may not always be available to ensure obstacle clearance from parked aircraft.
b) Due to limited parking space, aircraft may infringe taxiway strips. ATC will advise aircraft of appropriate taxiing routes.
c) Operators wishing to drive vehicles on the airport will be required to provide evidence of £10m airside driving liability insurance.
d) Within Apron 2, parking areas are marked by single white line boxes. Aircraft should park wholly within these areas unless advised by ATC. Aircraft may be required to shut down and push back into position if they cannot be safely manoeuvred under their own power, but will not be permitted to stop for long periods outside of the parking area as to do so may hinder RFFS vehicles. Caution should be exercised as apron edges are bounded by gravelled French drains.
e) Aircraft of a wingspan larger than 18 M may be accommodated on Apron 2 with caution by using wing-walkers, marshallers, or other methods of assurance.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Intensive instrument flying in all weather conditions takes place within 20 NM radius up to the lower limit of controlled airspace. Flight crews are strongly advised to contact Cranfield Approach in order to establish and communicate an accurate reflection of the traffic situation to all relevant participants of a service. Non-airways instrument traffic inbound to Cranfield are strongly advised to contact Cranfield Approach no later than 10 minutes flying time away. →
b) In the event of aerodrome electrical supply failure, aerodrome ground lighting **will not** be available for up to 15 seconds.
c) Pilots are advised to exercise caution as this aerodrome has a deer hazard, particularly during the periods of dawn and dusk/official night, although patrols are mounted whenever the presence of deer is known or anticipated. Pilots are requested to report the location of any animals on the aerodrome to ATC.
d) Air Crew are advised that runway edge lighting does not conform to CAP 168 Chapter 6 Paragraph 6.56 specifically that runway edge lights should be located along the edges of the area declared for use as the runway. Current lights lay outside of this area by approximately 1 M. Pilots are to land as close to the centre-line as practicable. The edge of the useable runway area is delineated by white lines in accordance with CAP 168 Chapter 7.
e) Occasional helicopter activity at Helimech Helipad (520152N 0003653W).

f) Runway surface features a water ingestion area, known as the ‘splash pit’, approx 610 M from the RWY 21 threshold in the vicinity of the C intersection. This area is liable to collecting water and may become icy in freezing conditions. Standard runway surface conditions will be reported. However, be advised that any reported contamination may be concentrated in this area.
g) Local flying training may be concentrated in the area northwest of the airfield between SFC and base of controlled airspace.
h) UAS are routinely operated within the FRZ (Flight Restriction Zone), but outside the CFZ (Critical Flight Zone), up to a height of 400 FT. UAS operating inside the CFZ, or above a height of 400 FT will be individually notified via NOTAM.

5 HELICOPTER OPERATIONS

a) All helicopters should expect to join via published VRPs and operate to/from the main runway, integrating with fixed-wing traffic when required.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) PPR is required for all operators, visitors, instrument training and circuit training. Slot times are allocated and must be adhered to.
b) Issue of training/test approvals is conditional upon such flights not causing delays to other aircraft. In exceptional circumstances training/test approvals may be withdrawn without prior notice by ATC.
c) **Opposite Direction Runway Operations - Lack of Positive Clearance** - Training aircraft carrying out instrument approaches to Runway 21 whilst Runway 03 is in use should go around and fly directly over Runway 21/03 not below 1000 FT AGL (1400 FT ALT) if no positive clearance is received.

EGTC AD 2.21 NOISE ABATEMENT PROCEDURES

a) In order that least possible noise disturbance is caused in areas surrounding the airport, aircraft operators should ensure that at all times their aircraft conform to the noise abatement techniques laid down for that type of aircraft.

EGTC AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.
b) Glider and other airspace activity which is not known to Cranfield ATC takes place beneath the London TMA in VMC and IMC.

2 CIRCUIT HEIGHTS

a) Day - Fixed-wing 1000 FT QFE. Night - 1200 FT QFE.

Note: *No dead-side available due to circuits operating in both directions.*

3 RUNWAY VISUAL RANGE

a) No RVR, only MET visibility reported.

4 IFR DEPARTURES

a) IFR Departures intending to enter Controlled Airspace should flight plan to join in accordance with the Standard Route Document.

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGTC AD 2.23 ADDITIONAL INFORMATION

a) Co-operative surveillance system in use to support ATS provision. All ADS-B equipped aircraft in receipt of a service are requested to display electronic conspicuity.

EGTC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTC-2-1
INSTRUMENT APPROACH CHART RNP RWY 03 (CAT A,B,C) - ICAO
AD 2.EGTC-8-1
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 03 (CAT A,B,C) - ICAO
AD 2.EGTC-8-2
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 21 (CAT A,B,C) - ICAO
AD 2.EGTC-8-3
INSTRUMENT APPROACH CHART RNP RWY 21 (CAT A,B,C) - ICAO
AD 2.EGTC-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 21 (CAT A,B,C) - ICAO
AD 2.EGTC-8-5
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 03
AD 2.EGTC-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 21
AD 2.EGTC-8-7

EGTC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

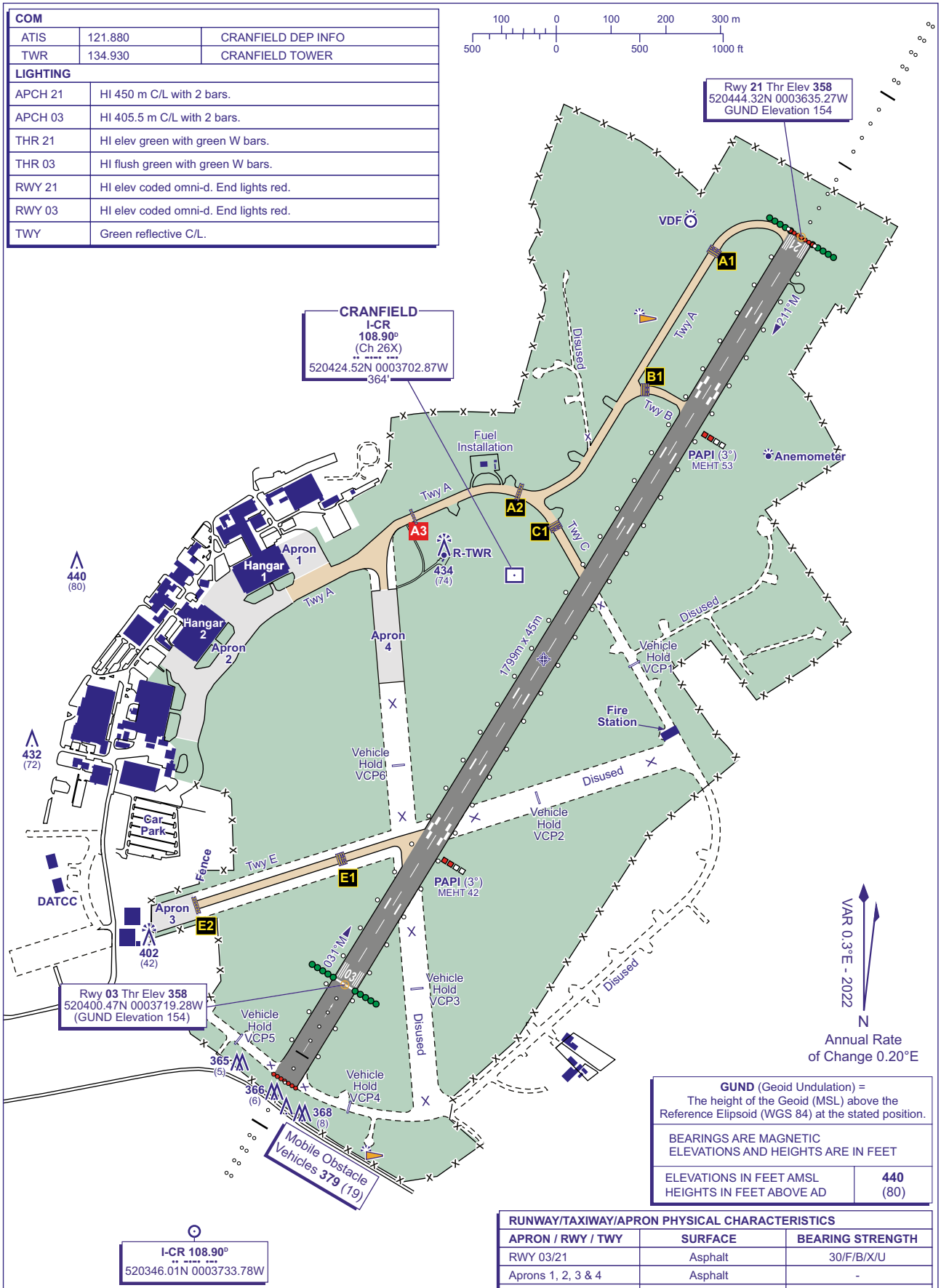
ARP 520420N 0003700W

AD ELEV 360FT

CRANFIELD
EGTC

COM		
ATIS	121.880	CRANFIELD DEP INFO
TWR	134.930	CRANFIELD TOWER

LIGHTING	
APCH 21	HI 450 m C/L with 2 bars.
APCH 03	HI 405.5 m C/L with 2 bars.
THR 21	HI elev green with green W bars.
THR 03	HI flush green with green W bars.
RWY 21	HI elev coded omni-d. End lights red.
RWY 03	HI elev coded omni-d. End lights red.
TWY	Green reflective C/L.



GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	**440**
HEIGHTS IN FEET ABOVE AD	(80)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 03/21	Asphalt	30/F/B/X/U
Aprons 1, 2, 3 & 4	Asphalt	-
Taxiways	Asphalt	-

CHANGE (10/25): THR 21 MARKINGS. VDF LIT. OBSTACLES.

AERO INFO DATE 17 JUL 25

AD 2-EGTC-2-1

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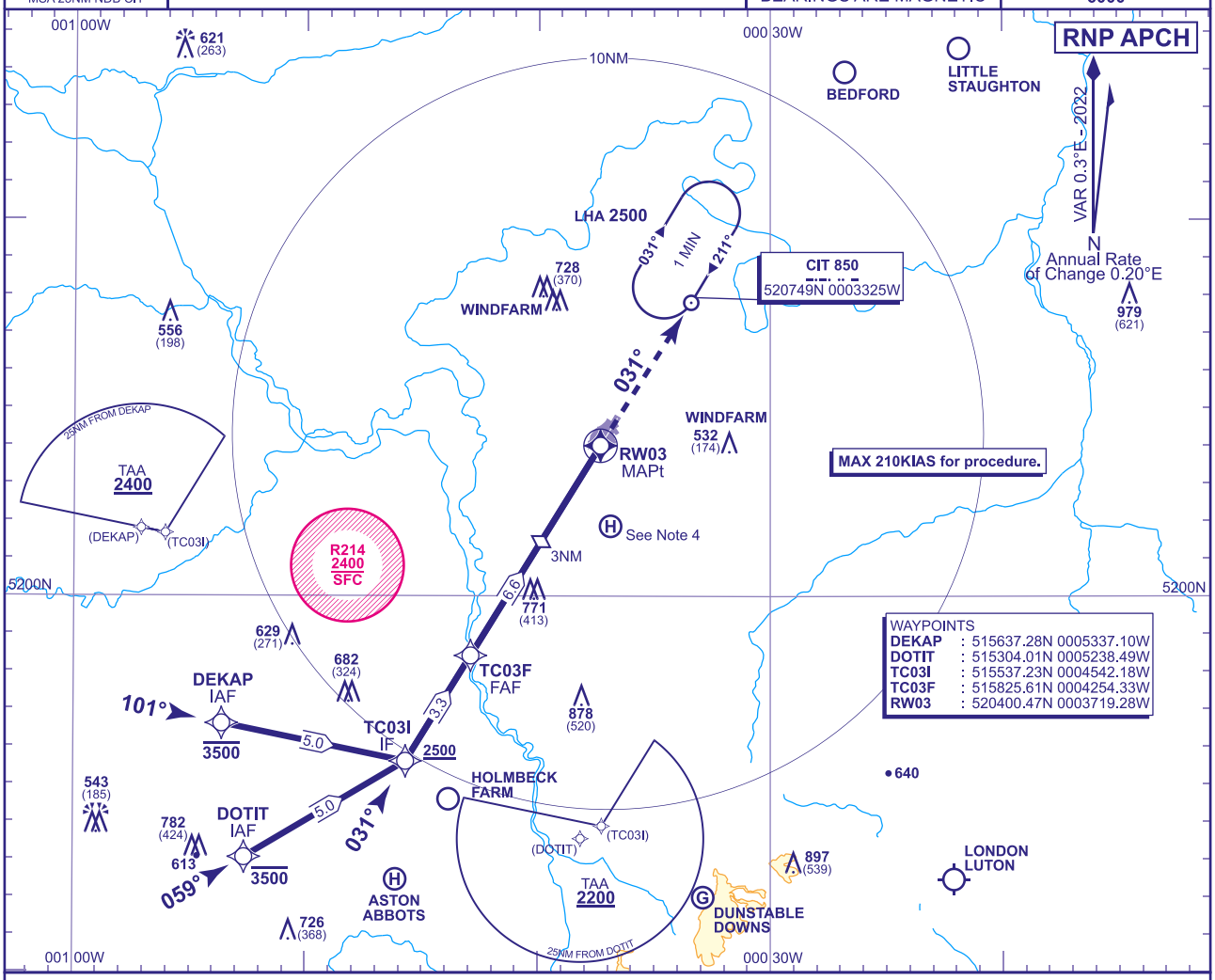
INSTRUMENT APPROACH CHART - ICAO

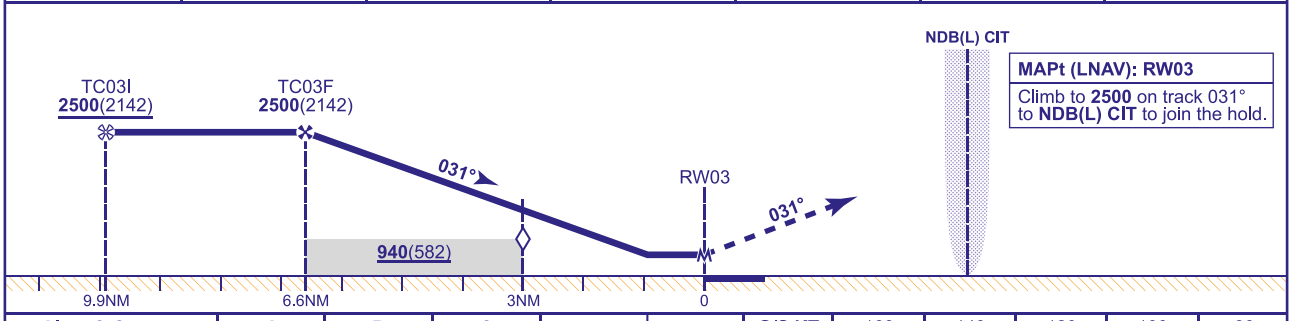
CRANFIELD
RNP
RWY 03
(ACFT CAT A,B,C)

24	APP 122.855	CRANFIELD APPROACH	AD ELEVATION	360	
MSA 25NM NDB CIT	TWR 134.930, 122.855	CRANFIELD TOWER	THR ELEVATION	358	
			OBSTACLE ELEVATION 979 AMSL (621) (ABOVE THR)		TRANSITION ALTITUDE 6000
			BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

NM	6	5	4	3 (SDF)	2	1
ALT(HGT)	**2320**(1962)	**2000**(1642)	**1680**(1322)	**1360**(1002)	**1040**(682)	**730**(372)



Aircraft Category		A	B	C
OCA (OCH)	LNAV	**690**(332)	**690**(332)	**690**(332)
VM(C)OCA (OCH AAL)	Total Area	**800**(440)	**970**(610)	**1150**(790)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	630	530	420

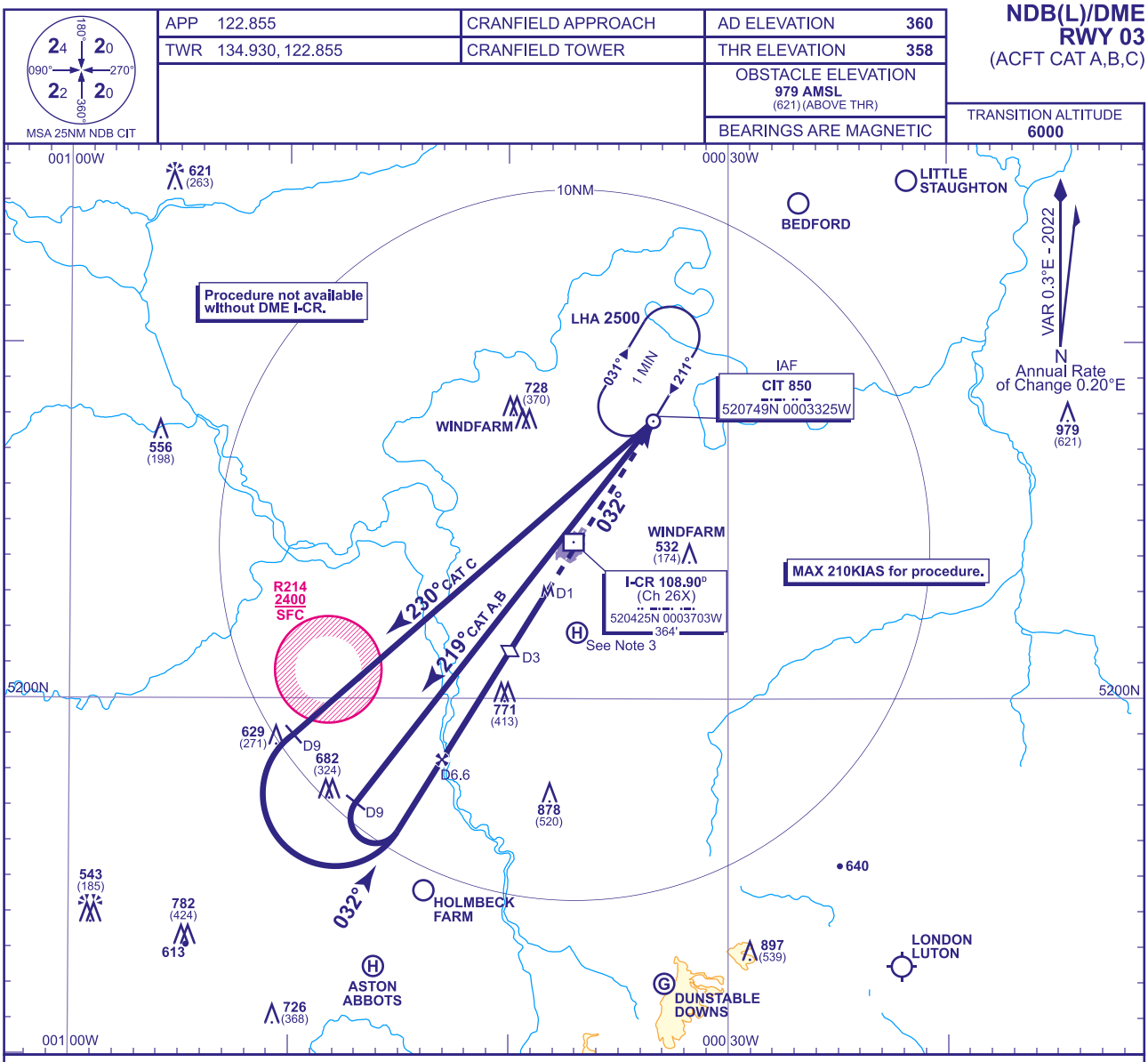
NOTES
1 CIT NDB(L) hold restrictions: MAX holding level **5000**, MAX 180KIAS.
2 Missed Approach Procedure uses **conventional navigation aids** and is not available without **NDB(L) CIT**.
3 Intensive glider activity takes place beneath the LTMA in VMC and in IMC.
4 Occasional helicopter activity at Helimech Helipad (520152N 0003653W).

CHANGE (7/25): EGD206 REMOVED.

AERO INFO DATE 17 APR 25
AD 2-EGTC-8-1

INSTRUMENT APPROACH CHART - ICAO

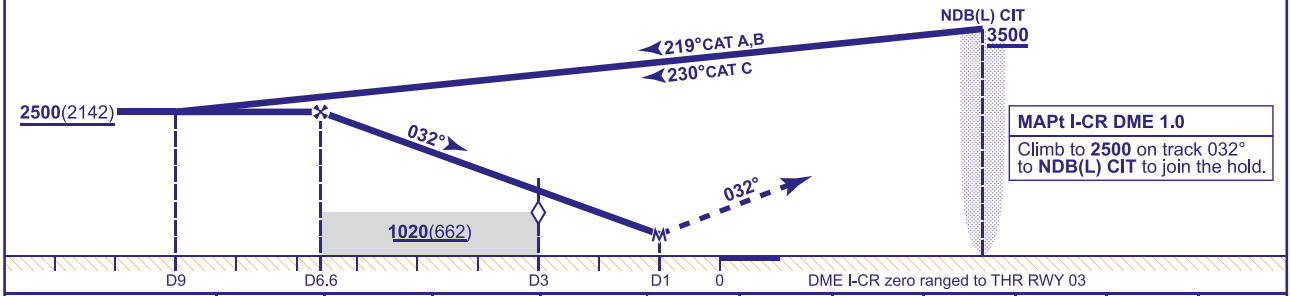
CRANFIELD NDB(L)/DME RWY 03
(ACFT CAT A,B,C)



APP 122.855	CRANFIELD APPROACH	AD ELEVATION	360
TWR 134.930, 122.855	CRANFIELD TOWER	THR ELEVATION	358
		OBSTACLE ELEVATION 979 AMSL (621) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-CR	6	5	4	3 (SDF)	2
ALT(HGT)	**2310**(1952)	**1990**(1632)	**1680**(1322)	**1360**(1002)	**1040**(682)



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**730**(372)	**730**(372)	**730**(372)
VM(C)OCA (OCH AAL)	Total Area	**800**(440)	**970**(610)	**1150**(790)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	630	530	420

NOTES
1 CIT NDB(L) hold restrictions: MAX holding level **5000**, MAX 180KIAS.
2 Intensive glider activity takes place beneath the LTMA in VMC and in IMC.
3 Occasional helicopter activity at Helimech Helipad (520152N 0003653W).

CHANGE (7/25): EGD206 REMOVED.

AERO INFO DATE 17 APR 25

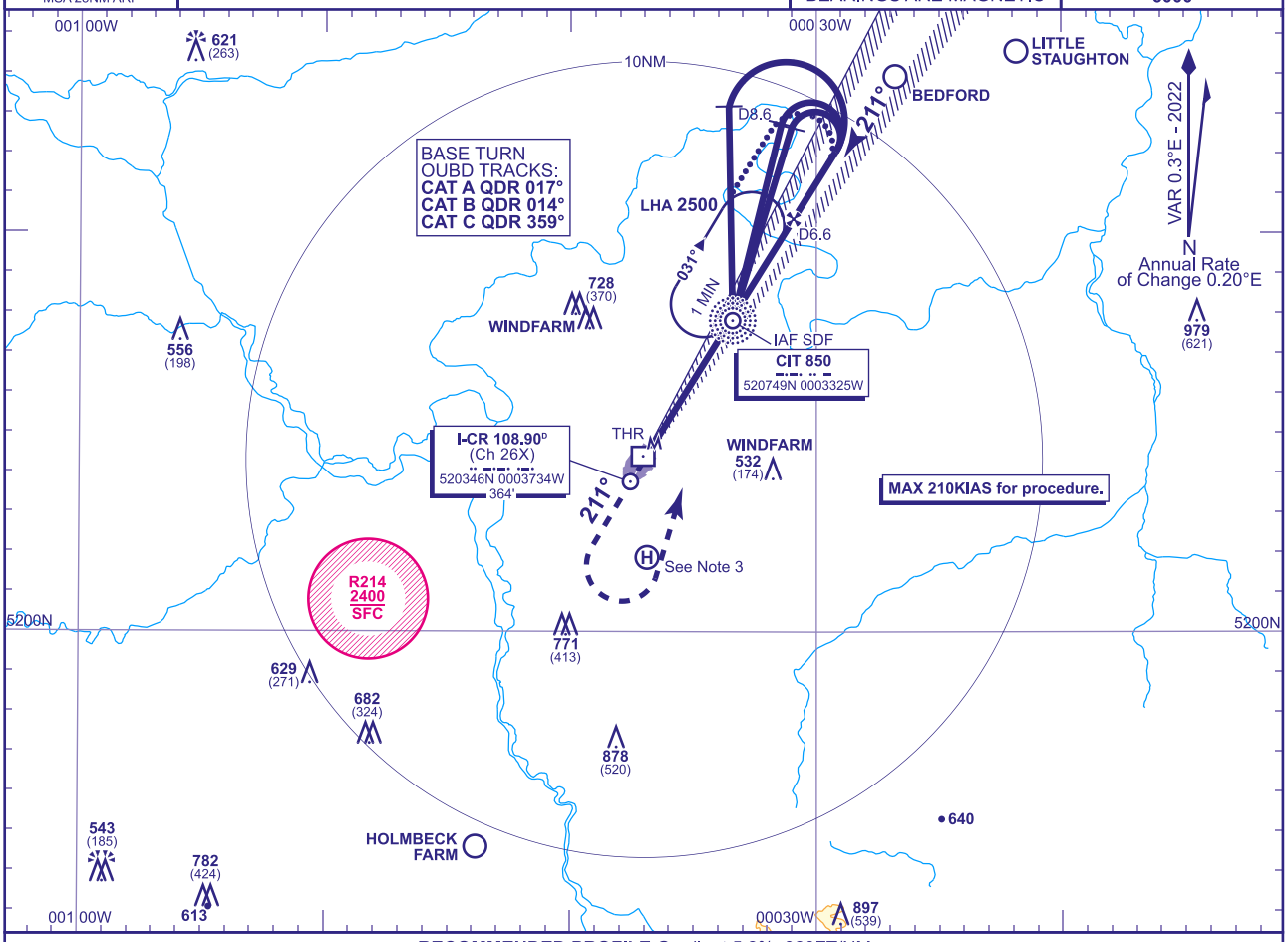
INSTRUMENT APPROACH CHART - ICAO

CRANFIELD LOC/DME/NDB(L) RWY 21
(ACFT CAT A,B,C)



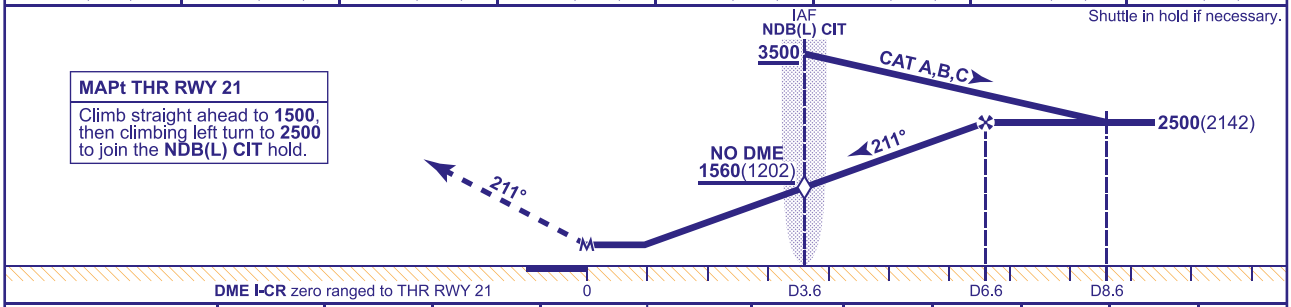
MSA 25NM ARP

APP 122.855	CRANFIELD APPROACH	AD ELEVATION	360
TWR 134.930, 122.855	CRANFIELD TOWER	THR ELEVATION	358
		OBSTACLE ELEVATION 979 AMSL (621) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-CR	6	5	4	3.6 (SDF)	3	2	1
ALT(HGT)	**2310**(1952)	**1990**(1632)	**1680**(1322)	**1560**(1202)	**1360**(1002)	**1040**(682)	**730**(372)



MAPt THR RWY 21
Climb straight ahead to **1500**, then climbing left turn to **2500** to join the **NDB(L) CIT** hold.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**670**(312)	**670**(312)	**670**(312)
VM(C)OCA (OCH AAL)	Total Area	**800**(440)	**970**(610)	**1150**(790)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430
NDB(L) CIT to MAPt	MIN:SEC	1:25	1:35	1:50	2:12	2:46

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend the outbound leg of the NDB(L) CIT holding pattern to D8.6; descending to **2500**(2142), then turn right to intercept the LOC. Continue as for main Procedure.

AIRCRAFT UNABLE TO RECEIVE DME
Fly outbound prior to baseturn or extend outbound leg of the NDB(L) CIT hold for 2.5MIN (CAT A); 2MIN (CAT B); 1.5MIN (CAT C) descending to **2500**(2142). Then turn right to intercept the LOC. When established inbound descend not below **1560**(1202) at the SDF (NDB(L) CIT), then to MDH.

NOTES
1 ATC will normally require holding **not below 3500**. Lowest altitude to commence procedure after missed approach is **2500**.
2 CIT NDB(L) hold restrictions: MAX holding level **5000**, MAX 180KIAS.
3 Occasional helicopter activity at Helimech Helipad (520152N 0003653W).

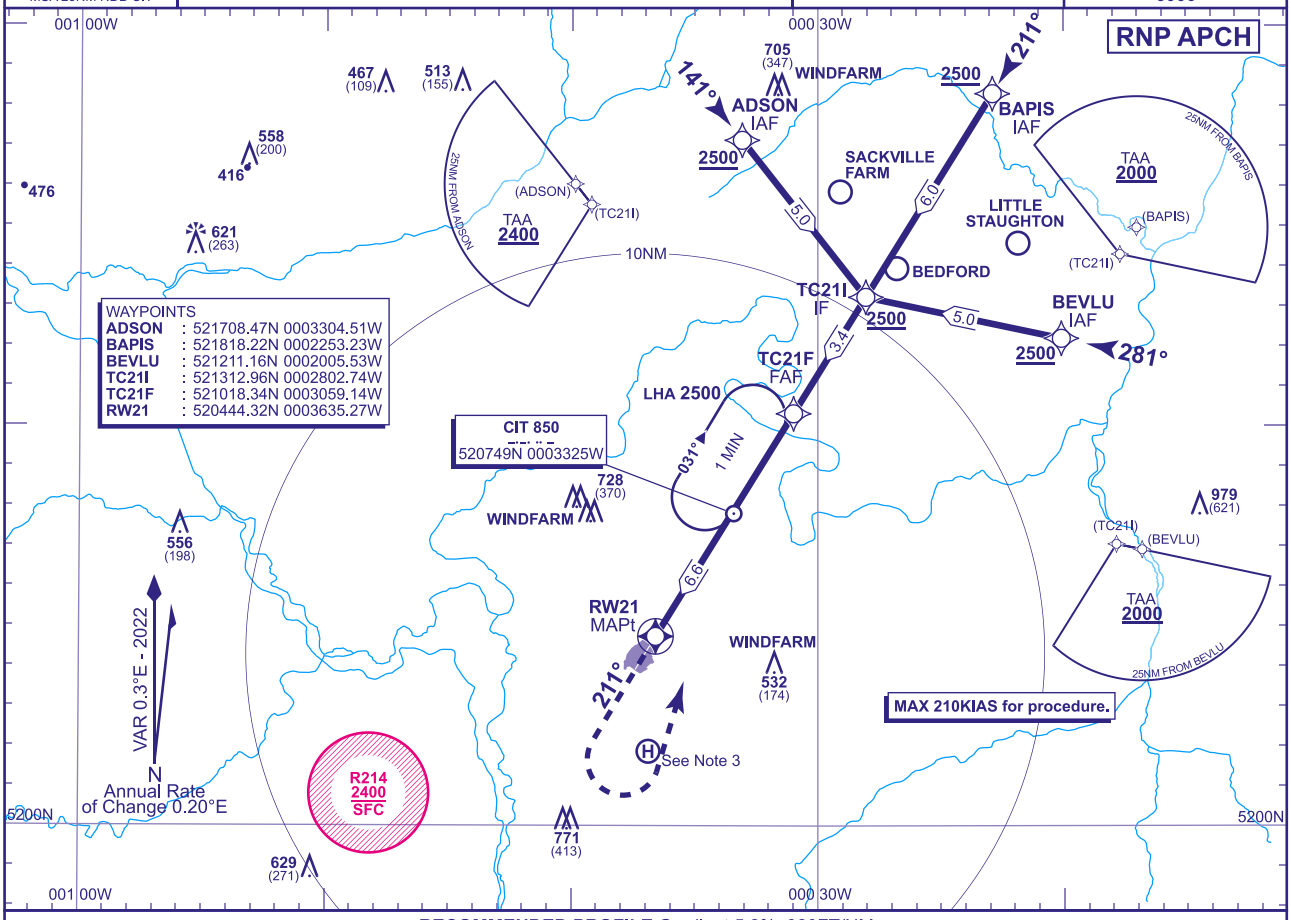
CHANGE (7/25): EGD206 REMOVED.

AERO INFO DATE 17 APR 25
AD 2-EGTC-8-3

INSTRUMENT APPROACH CHART - ICAO

CRANFIELD
RNP
RWY 21
(ACFT CAT A,B,C)

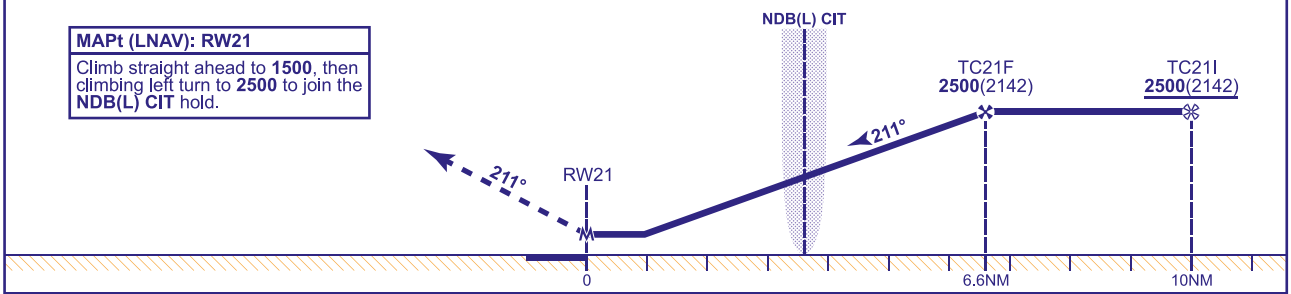
2 4 MSA 25NM NDB CIT	APP 122.855	CRANFIELD APPROACH	AD ELEVATION 360
	TWR 134.930, 122.855	CRANFIELD TOWER	THR ELEVATION 358
			OBSTACLE ELEVATION **979 AMSL** (621) (ABOVE THR)
			BEARINGS ARE MAGNETIC
			TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

NM	6	5	4	3	2	1
ALT(HGT)	**2320**(1962)	**2000**(1642)	**1680**(1322)	**1370**(1012)	**1050**(692)	**730**(372)

MAPt (LNAV): RW21
Climb straight ahead to **1500**, then climbing left turn to **2500** to join the **NDB(L) CIT** hold.



Aircraft Category		A	B	C
OCA (OCH)	**LNAV**	**690**(332)	**690**(332)	**690**(332)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(440)	**970**(610)	**1150**(790)

Rate of descent						
	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES
1 CIT NDB(L) hold restrictions: MAX holding level **5000**, MAX 180KIAS.
2 Missed Approach Procedure uses **conventional navigation aids** and is not available without **NDB(L) CIT**.
3 Occasional helicopter activity at Helimech Helipad (520152N 0003653W).

CHANGE (7/25): EGD206 REMOVED.

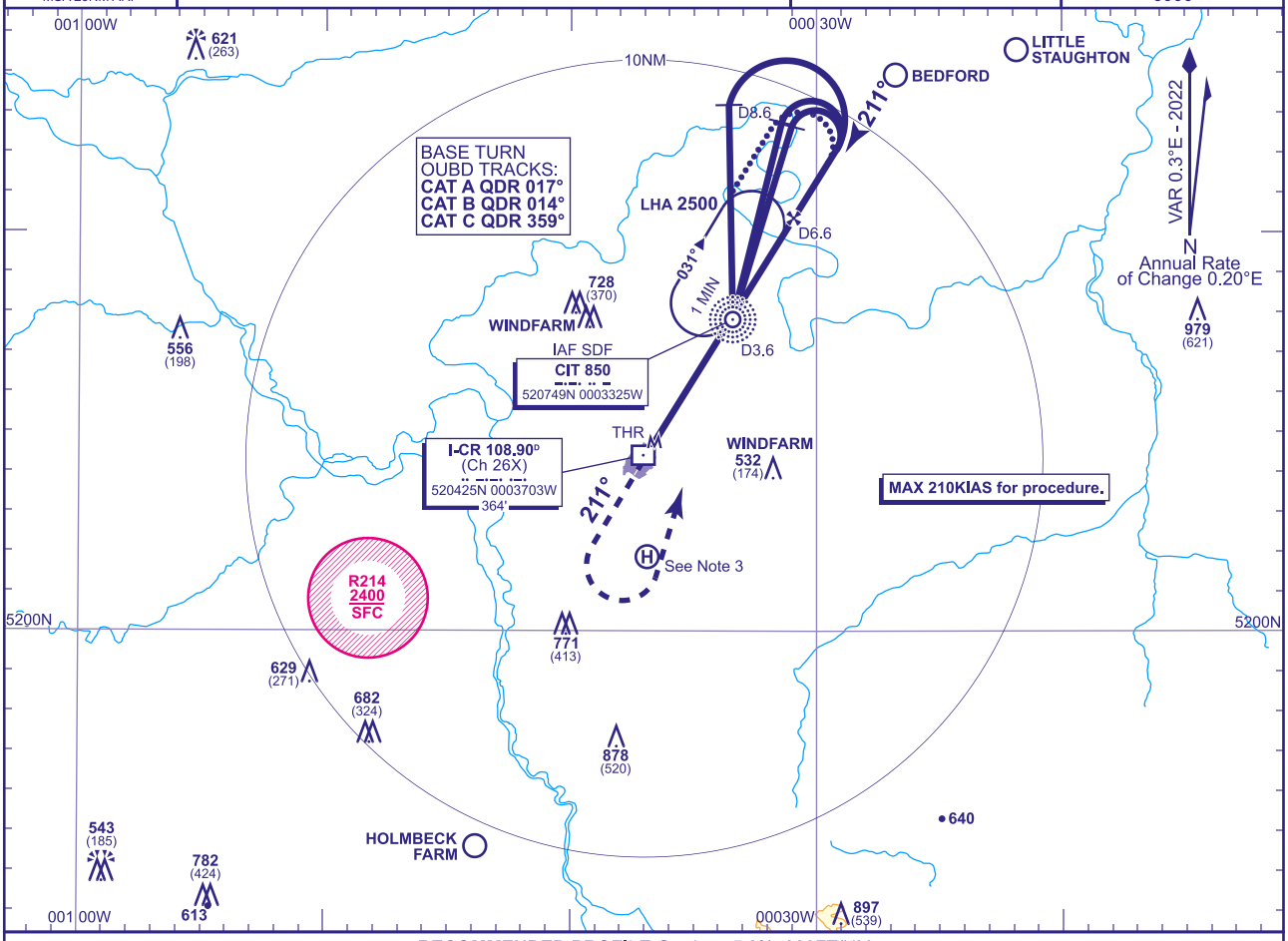
INSTRUMENT APPROACH CHART - ICAO

CRANFIELD NDB(L)/DME RWY 21
(ACFT CAT A,B,C)



MSA 25NM ARP

APP 122.855	CRANFIELD APPROACH	AD ELEVATION	360
TWR 134.930, 122.855	CRANFIELD TOWER	THR ELEVATION	358
		OBSTACLE ELEVATION 979 AMSL (621) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000



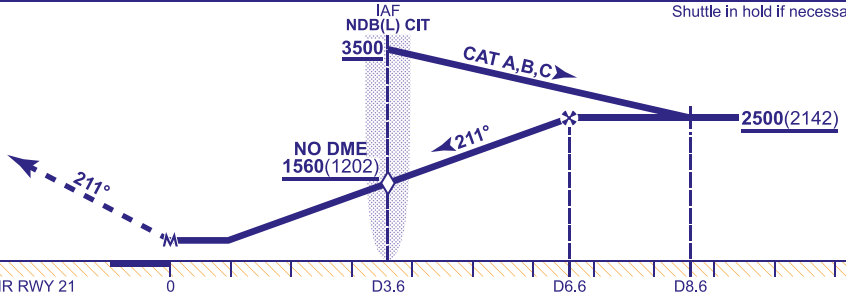
RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-CR	6	5	4	3.6 (SDF)	3	2	1
ALT(HGT)	**2310**(1952)	**1990**(1632)	**1680**(1322)	**1560**(1202)	**1360**(1002)	**1040**(682)	**730**(372)

Shuttle in hold if necessary.

MAPt DME I-CR ZERO (THR RWY 21)
(3.64NM after NDB(L) CIT)

Climb straight ahead to **1500**, then climbing left turn to **2500** to join the **NDB(L) CIT** hold.



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**690**(332)	**690**(332)	**690**(332)
VM(C)OCA (OCH AAL)	Total Area	**800**(440)	**970**(610)	**1150**(790)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430
NDB(L) CIT to MAPt	MIN:SEC	1:25	1:35	1:50	2:12	2:46

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend the outbound leg of the NDB(L) CIT holding pattern to D8.6; descending to **2500**(2142), then turn right to intercept the FAT. Continue as for main Procedure.

AIRCRAFT UNABLE TO RECEIVE DME
Fly outbound prior to baseturn or extend outbound leg of the NDB(L) CIT hold for 2.5MIN (CAT A); 2MIN (CAT B); 1.5MIN (CAT C) descending to **2500**(2142). Then turn right to intercept the FAT. When established inbound descend not below **1560**(1202) at the SDF (NDB(L) CIT), then to MDH.

NOTES
1 ATC will normally require holding **not below 3500**. Lowest altitude to commence procedure after missed approach is **2500**.
2 CIT NDB(L) hold restrictions: MAX holding level **5000**, MAX 180KIAS.
3 Occasional helicopter activity at Helimech Helipad (520152N 0003653W).

CHANGE (7/25): EGD206 REMOVED.

AERO INFO DATE 17 APR 25

Instrument Approach Procedure Coding Tables

CRANFIELD RNP RWY 03 - Instrument Approach Procedure via DOTIT

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R03C	001	IF	DOTIT	N	-	-	3500	-	515304.01N 0005238.49W	IAF / 14.9NM
R03C	002	TF	TC03I	N	059° (059.4°)	LEFT	2500	-210	515537.23N 0004542.18W	IF / 9.9NM
R03C	003	TF	TC03F	N	031° (031.7°)	-	2500	-210	515825.61N 0004254.33W	FAF / 6.6NM
R03C	004	TF	RW03	Y	031° (031.7°)	-	-	-	520400.47N 0003719.28W	MAPt
R03C	005	CA	-	-	031° (031.7°)	-	2500	-	-	-

CRANFIELD RNP RWY 03 - Instrument Approach Procedure via DEKAP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R03L	001	IF	DEKAP	N	-	-	3500	-	515637.28N 0005337.10W	IAF / 14.9NM
R03L	002	TF	TC03I	N	101° (101.7°)	LEFT	2500	-210	515537.23N 0004542.18W	IF / 9.9NM
R03L	003	TF	TC03F	N	031° (031.7°)	-	2500	-210	515825.61N 0004254.33W	FAF / 6.6NM
R03L	004	TF	RW03	Y	031° (031.7°)	-	-	-	520400.47N 0003719.28W	MAPt
R03L	005	CA	-	-	031° (031.7°)	-	2500	-	-	-

CHANGE (6/25): SPECIFICATION CHANGE.
AERO INFO DATE 14 MAR 25

Instrument Approach Procedure Coding Tables

CRANFIELD RNP RWY 21 - Instrument Approach Procedure via BAPIS

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21C	001	IF	BAPIS	N	-	-	2500	-	521818.22N 0002253.23W	IAF / 16NM
R21C	002	TF	TC21I	N	211° (211.7°)	-	2500	-210	521312.96N 0002802.74W	IF / 10NM
R21C	003	TF	TC21F	N	211° (211.7°)	-	2500	-210	521018.34N 0003059.14W	FAF / 6.6NM
R21C	004	TF	RW21	Y	211° (211.7°)	-	-	-	520444.32N 0003635.27W	MAPt
R21C	005	CA	-	-	211° (211.7°)	-	1500	-	-	-

CRANFIELD RNP RWY 21 - Instrument Approach Procedure via BEVLU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21L	001	IF	BEVLU	N	-	-	2500	-	521211.16N 0002005.53W	IAF / 15NM
R21L	002	TF	TC21I	N	281° (281.7°)	LEFT	2500	-210	521312.96N 0002802.74W	IF / 10NM
R21L	003	TF	TC21F	N	211° (211.7°)	-	2500	-210	521018.34N 0003059.14W	FAF / 6.6NM
R21L	004	TF	RW21	Y	211° (211.7°)	-	-	-	520444.32N 0003635.27W	MAPt
R21L	005	CA	-	-	211° (211.7°)	-	1500	-	-	-

CRANFIELD RNP RWY 21 - Instrument Approach Procedure via ADSON

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21R	001	IF	ADSON	N	-	-	2500	-	521708.47N 0003304.51W	IAF / 15NM
R21R	002	TF	TC21I	N	141° (141.7°)	RIGHT	2500	-210	521312.96N 0002802.74W	IF / 10NM
R21R	003	TF	TC21F	N	211° (211.7°)	-	2500	-210	521018.34N 0003059.14W	FAF / 6.6NM
R21R	004	TF	RW21	Y	211° (211.7°)	-	-	-	520444.32N 0003635.27W	MAPt
R21R	005	CA	-	-	211° (211.7°)	-	1500	-	-	-

CHANGE (6/25): SPECIFICATION CHANGE.
AERO INFO DATE 14 MAR 25

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EGPG — CUMBERNAULD

EGPG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPG — CUMBERNAULD

EGPG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 555829N Long: 0035832W Mid point of Runway 07/25.
2	Direction and distance from city	11.5 NM NE of Glasgow City.
3	Elevation / Reference temperature / Mean Low Temperature	348 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	176 FT
5	Magnetic Variation / Annual Change	0.48°W (2027) / 0.20°E
6	AD Administration Address Telephone E-mail address Web address	CORMACK AIRCRAFT SERVICES LTD. Cumbernauld Aerodrome, 2/6 Duncan McIntosh Road, Wardpark North, Cumbernauld, G68 0HH. 01236-722100 (Aerodrome) 01236-722822 (ATS) ops@cumbernauldairport.org www.cumbernauldairport.org
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGPG AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600). Extension to opening hours available on request. Outside aerodrome opening hours, the airport operates unlicensed.
2	Customs and immigration	Certificate of Agreement with Border Force, use online G.A.R. form.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD Hours. See AD 2.18
8	Fuelling	H24 Self-Service.
9	Handling	As AD Hours.
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGPG AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (F34), AVGAS 100LL. Fluid 41 (hydraulic), W80, W100, S80, S100, 15W50, Aeroshell 560.
3	Fuelling facilities/capacity	Self-service AVGAS 100LL pump, AVTUR Jet A-1 pump and high pressure Jet A-1 pump on request.
4	De-icing facilities	
5	Hangar space for visiting aircraft	By arrangement.
6	Repair facilities for visiting aircraft	On request.
7	Remarks	

EGPG AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels available in the vicinity.
2	Restaurants	Call Ops on 01236-722822 for status on airport cafe and local restaurants.

3	Transportation	Taxi and Car hire available on request. Nearest railway station Cumbernauld, Croy.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Cumbernauld village.
6	Tourist Office	
7	Remarks	

EGPG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 aircraft may be accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGPG AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Aerodrome unlicensed while runway surface is contaminated.

EGPG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	A Surface: Asphalt B Surface: Concrete C Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A: 7 M Surface: Asphalt Taxiway B: 10 M Surface: Asphalt Taxiway C: 10 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	Taxiway/Holding Point C: 350 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Runway designators and centre-line markings. Taxiway marking aid(s): Taxiway centre-line and holding point markings. Blue reflective taxiway edge markers.
3	Stop bars and runway guard lights (if any)	Stop bars on taxiways.
4	Other runway protection measures	
5	Remarks	WDI: 555832.63N 0035826.82W (LGTD).

EGPG AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPG4263)	PYLON	555949.16N 0035832.24W	592 FT	153 FT	No	
(EGPG3903)	MAST	555828.05N 0034904.79W	1004 FT	508 FT	Yes Red	
(EGPG4228)	TREE	555812.42N 0035919.56W	484 FT	55 FT	No	
(EGPG3945)	TREE	555746.80N 0035940.71W	571 FT	77 FT	No	
(EGPG3944)	WATER_TOWER	555743.04N 0035948.33W	591 FT	75 FT	No	

EGPG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	
2	Hours of service MET Office outside hour	
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self Briefing/Telephone Consultation (Control Room, Tel: 01236-722822).
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGPG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
07	072.53°	819 x 23 M	RWY surface: Asphalt PCN 14/F/C/Y/T	555824.79N 0035854.09W 176.5 FT	THR 348.4 FT	
25	252.54°	819 x 23 M	RWY surface: Asphalt PCN 14/F/C/Y/T	555832.74N 0035809.02W 176.4 FT	THR 329.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	113 x 80 M	929 x 80 M				RWY 07
	101 x 80 M	929 x 80 M				RWY 25

EGPG AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	819 M	932 M	819 M	819 M	
25	819 M	920 M	819 M	819 M	

EGPG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07		Light intensity low Green bar at threshold	APAPI Left/4° 21 FT			White Light intensity low	Red		
25	Basic 'T' Bar. Light intensity high	Light intensity low Green bar at threshold	APAPI Left/3.5° 18 FT			White Light intensity low	Red		

EGPG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 555828N 0035817W Flashing White. Top of Visual Control Room. Activated upon request.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 555832.40N 0035829.72W (LGTD); 555828.29N 0035816.41W (ATC, LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGPG AD 2.16 HELICOPTER LANDING AREA

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EGPG AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CUMBERNAULD ATZ A circle, 2 NM radius, centred at 555829N 0035832W on longest notified runway (07/25)	Upper limit: 2000 FT AGL Lower limit: SFC	G	CUMBERNAULD RADIO English	6000 FT		

EGPG AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	CUMBERNAULD RADIO	120.605 A/G frequency.			0900-1700 (0800-1600); and by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGPG AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGPG AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) PPR: Radio (120.605 MHz), phone (01236-722822), email (ops@cumbernauldairport.org).

2 GROUND MOVEMENT

a) No aircraft is to enter the yellow hatched area at the fuel pump other than by hand manoeuvring.
b) All fixed wing operators must ensure that aircraft are not left or parked on the main apron after fuelling under any circumstances.
c) No aircraft to start or carry out engine runs with their tails directed towards any hangar or other aircraft.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) High ground rising to 1870 FT AMSL 5 NM and 1506 FT AMSL 4 NM to the northwest.
b) Outbound and Inbound aircraft on a north westerly track to be aware of the Glasgow Controlled airspace (Class D, SFC-6000 FT) 4 NM northwest of the airfield.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

Not applicable.

EGPG AD 2.21 NOISE ABATEMENT PROCEDURES

a) Runway 25 Departures: After take-off continue over golf course then turn right over the canal avoiding the old town of Dullatur.
b) Circuit Traffic: Circuit traffic on crosswind should turn downwind and avoid overflying the small villages of Banton and High Banton.
c) On right base for Runway 25 right-hand avoid overflying small row of seven houses at Braeface.

EGPG AD 2.22 FLIGHT PROCEDURES

1 ARRIVALS

a) Aircraft operating under IFR may let down at Edinburgh or Glasgow and proceed to Cumbernauld in VMC.

2 CIRCUITS

a) Circuit directions: Runway 25 - RH; Runway 07 - LH for all circuit traffic. Circuit height: 800 FT QFE.
b) When circuit is active standard overhead join at 2000 FT QFE, descending dead-side to join the circuit: 800 FT QFE.

EGPG AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGPG AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPG-2-1

EGPG AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

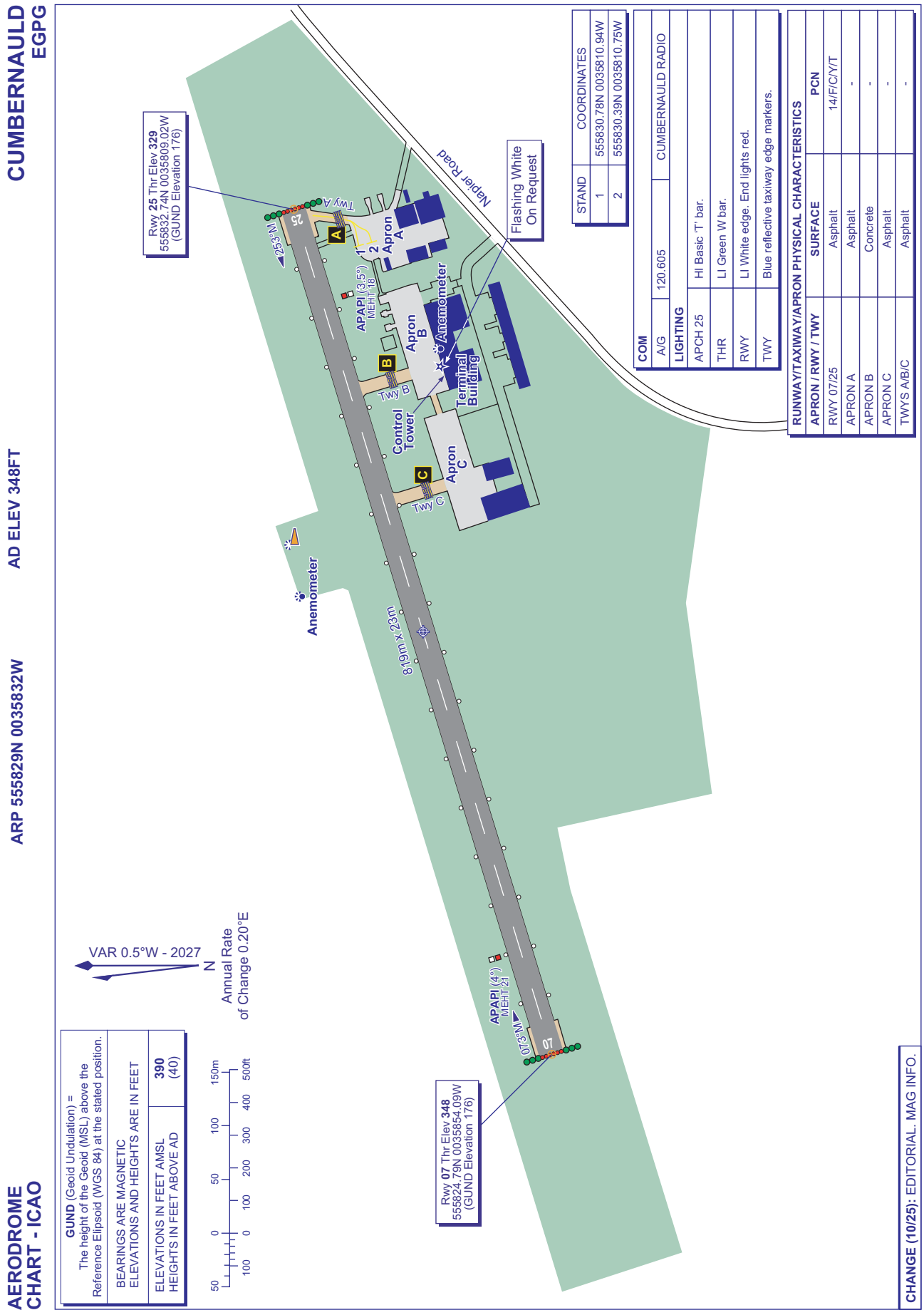
Not applicable

CUMBERNAULD EGPG

AD ELEV 348FT

ARP 555829N 0035832W

AERODROME CHART - ICAO



AERO INFO DATE 22 JUL 25

AD 2-EGPG-2-1

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EGLD — DENHAM

EGLD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGLD — DENHAM

EGLD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513518N Long: 0003047W Mid point of Runway 06/24
2	Direction and distance from city	1.5 NM E of Gerrards Cross.
3	Elevation / Reference temperature / Mean Low Temperature	249 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	1.20°E (2027) / 0.17°E
6	AD Administration	BICKERTON'S AERODROMES LTD
	Address	C-Ops Offices, Hangar Road, Denham Aerodrome, Tilehouse Lane, Denham, UB9 5DF.
	Telephone	01895-832161 (ATC) 01895-832060 (Administration)
	Telefax	01895-831161 (Administration)
	E-mail address	tower@egld.com
	Web address	www.egld.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGLD AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1600 (0800-1500).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	0800-1800 (0700-1900); and by arrangement. See also AD 2.18.
8	Fuelling	Fuelling AVGAS 0800-1800 (0700-1900). Jet A1 Mon-Fri 0900-1430 (0800-1330) and by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR by telephone or email.

EGLD AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (All JET-A1 Premixed with AL48), AVGAS 100LL W100, W80, 100, 80, 15W50.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGLD AD 2.5 PASSENGER FACILITIES

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EGLD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special. RFFS is available on standby between 0900-1730 (0800-1630) or SS, whichever is earlier.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGLD AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGLD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGLD AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGLD AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
24/APPROACH 06/TAKE-OFF	Tree	513529.24N 0003008.34W	317 FT		No	
24/APPROACH 06/TAKE-OFF	Tree	513528.26N 0003017.20W	292 FT		No	
12/APPROACH 30/TAKE-OFF	Tree	513528.22N 0003112.96W	304 FT		No	
24/APPROACH 06/TAKE-OFF	Vehicles	513525.12N 0003028.51W	255 FT		No	
12/APPROACH 30/TAKE-OFF	Tree	513524.15N 0003100.22W	275 FT		No	
06/APPROACH 24/TAKE-OFF	Tree	513509.81N 0003111.43W	283 FT		No	
06/APPROACH 24/TAKE-OFF	Tree	513504.45N 0003122.51W	325 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	CRANE	513644N 0003127W	408 FT	195 FT	Yes	
	CRANE	513535N 0003011W	247 FT	116 FT	Yes	
	CRANE	513525N 0002955W	326 FT	195 FT	Yes	
	Mast	513518.32N 0003019.35W	326 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	CRANE	513513N 0002920W	315 FT	190 FT	Yes	
	CRANE	513455N 0002910W	326 FT	195 FT	Yes	

EGLD AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGLD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
06	059.21°	775 x 18 M	RWY surface: Asphalt	513512.51N 0003102.47W	THR 249.0 FT	
24	239.22°	775 x 18 M	RWY surface: Asphalt	513523.28N 0003033.45W	THR 241.0 FT	
12	118.11°	546 x 18 M	RWY surface: Grass	513521.32N 0003053.95W	THR 248.0 FT	
30	298.11°	546 x 18 M	RWY surface: Grass	513517.53N 0003042.56W	THR 244.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 06 Threshold displaced by 36 M.
						RWY 24 Threshold displaced by 89 M.
						RWY 12 Threshold displaced by 114 M.
						RWY 30 Threshold displaced by 183 M.

EGLD AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	**2**	**3**	**4**	**5**	**6**
06	686 M	686 M	742 M	706 M	
24	728 M	728 M	748 M	670 M	
12	363 M	363 M	533 M	419 M	
30	432 M	432 M	546 M	363 M	

EGLD AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06		Light intensity low Green wingbars	APAPI Left/4.5° 14 FT			Light intensity low	Red		
24		Light intensity low Green wingbars	APAPI Left/4.5° 10 FT			Light intensity low	Red		

EGLD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 513511.54N 0003044.82W Flashing Green 'DN'.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 513511N 000304W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	WDI lit at night.

EGLD AD 2.16 HELICOPTER LANDING AREA

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EGLD AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
DENHAM ATZ A circle, 2 NM radius, centred at 513518N 0003047W on longest notified runway (06/ 24)	Upper limit: 2000 FT AGL Lower limit: SFC	D	DENHAM RADIO English	6000 FT		Local Flying Area see EGLD 2.22, paragraphs (2) and (3). Airspace Class: D/G. See Flight Procedures.

EGLD AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	DENHAM RADIO	130.730 A/G frequency. DOC 10 NM/3,000 FT.			0800-1800 (0700-1900); and by arrangement.	ATZ hours coincident with A/G hours.

EGLD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGLD AD 2.20 LOCAL AERODROME REGULATIONS

1 AERODROME REGULATIONS

a) PPR by telephone or email.
b) Pilot Briefing on the aerodrome website www.egld.com.
c) Non-radio aircraft not accepted without prior permission from the AD Operator.
d) Normal HR of opening may be extended by prior arrangement with ATS (extended HR are not automatically licensed).
e) Pilots are responsible for the safety and conduct of their passengers whilst at the AD.

2 GROUND MOVEMENT

a) There are no hard taxiways. After heavy rain or snow the surface may be unsuitable for some aircraft types: contact ATS.
b) Avoid damaging the grass by unnecessary use of brakes to tighten turns.
c) Aircraft with poor prop clearance should enter / exit south at runway ends.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) The aerodrome is located within the northern boundary of the London Control Zone (Class D).
b) There is no overhead join. Northolt traffic overflies Denham not below 1500 FT AMSL. To ensure safe separation Denham maximum circuit altitude 1000 FT AMSL.
c) Avoid south-west part of the ATZ south of the A40 road.
d) A public road adjacent to the aerodrome boundary crosses the approach to Runway 24. Aircraft should not descend below the glidepath nor touch down before the displaced threshold.
e) APAPI: Visual glideslope signals for Runway 06 are visible to the left of the extended centreline where normal obstacle clearance is not guaranteed. Disregard APAPI until the aircraft is aligned with the runway.
f) Powerlines, 369 FT AMSL, 270°T, running north/south, 0.6 NM from ARP.

5 HELICOPTER OPERATIONS

a) Helicopters should fly the same circuit as fixed wing.

6 USE OF RUNWAYS

a) Runway 06/24 circuits are to the north: Runway 06 has a left hand circuit; Runway 24 has a right hand circuit.
b) Runway 12/30 has a variable circuit.
c) There is a grass strip to the north of, and parallel to, Runway 06/24 (“north side grass”).
d) Simultaneous approaches to the north side grass and Runway 06/24 are not permitted.
e) Simultaneous departures from the north side grass and Runway 06/24 are not permitted.

7 TRAINING

a) Only authorised operators may give flying instruction at the aerodrome.
b) Runway 12/30 not available for solo training flights.

EGLD AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots may deviate from noise abatement procedures to ensure flight safety.
b) Pilots must maintain safe separation and should fly a larger circuit if necessary to provide safe separation.
c) Runway 24 Arrivals: report at VRP Maple Cross, establish a long base leg. Overfly the lakes (where safely possible).
d) Runway 06 Arrivals: report at VRP St Giles, establish a long base leg. Overfly fields to try to avoid most houses in Chalfont St Peter and Gerrards Cross (where safely possible).
e) Runway 24 Departures: after take off maintain runway heading until past the houses on the right, then turn right before the A413 (where safely possible).
f) Runway 06 Departures: after take off maintain runway heading until past the caravan site on the left, then turn left over the lakes (where safely possible).

g) Keep the circuit small (where safely possible): turn downwind south of Chalfont St Peter and Maple Cross unless safe separation requires otherwise.

EGLD AD 2.22 FLIGHT PROCEDURES

1 VISUAL REFERENCE POINTS (VRP)

a) There is no overhead join. Maximum altitude 1000 FT AMSL.
b) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

2 CIRCUIT JOINING

a) To join the circuit, descend to circuit altitude 1000 FT AMSL, report at the VRP and establish a long base leg.
b) Look out for aircraft downwind.
c) Joining traffic must give way to circuit traffic.
d) Pilots should not orbit in the circuit.

3 CIRCUIT

a) Circuit altitude 1000 FT AMSL.
b) Use available equipment to aid conspicuity: landing light On; strobes On; transponder Alt.
c) Pilots should give position reports downwind and final.

4 DEPARTURES

a) After take off maintain runway heading, turn onto crosswind and climb to circuit altitude 1000 FT AMSL.
b) Extend crosswind leg towards the appropriate VRP.
c) Pilots in receipt of a clearance from Heathrow Radar or Northolt Approach may deviate in accordance with their clearance.

5 LOCAL FLYING AREA (LFA)

a) Denham LFA is that part of the Denham ATZ that lies within the London Control Zone (Class D).
b) Pilots of aircraft flying within the LFA are responsible for providing their own separation from other aircraft.
c) VFR flights may take place within the LFA subject to the following conditions:

   i. In compliance with the Class D airspace weather minima as defined in ENR 1.4;
   ii. Maximum altitude 1200 FT AMSL.

   Note: *Refer to ENR 1.4 for notifications.*

d) Aircraft unable to operate VFR may operate Special VFR within the LFA subject to the following conditions:

   i. Remain clear of cloud with the surface in sight;
   ii. Maximum altitude 1200 FT AMSL;
   iii. Minimum flight visibility 3 KM;
   iv. In compliance with the requirements for Special VFR flight detailed at ENR 1.2.

e) Aircraft flying in the LFA are not required to comply with the requirements of the London CTR Mode S Transponder Mandatory Zone, however:

   i. The carriage of a Mode S transponder within the LFA is encouraged;
   ii. Pilots of suitably equipped aircraft should select 7000 with altitude information.

6 AIRCRAFT IN THE LONDON CTR OUTSIDE THE DENHAM LFA

a) Aircraft operating VFR or Special VFR in the London CTR inbound to Denham may request a non-standard join. Pilots must contact Denham before entering the ATZ and must fit in with circuit traffic. If not visual with circuit traffic, or if the circuit is busy, the aircraft must join via the appropriate VRP.
b) Aircraft operating VFR or Special VFR in the London CTR must not assume permission has been issued to penetrate the Denham LFA. Heathrow Radar will, whenever possible, permit an aircraft to leave the frequency temporarily to obtain such permission.
c) Pilots requiring a VFR or Special VFR clearance to transit the London CTR must not enter the CTR until a clearance has been obtained.
d) Use of the overhead is possible with a clearance (e.g. for simulated engine failures in the overhead). The instructor should contact Heathrow Radar or Northolt Approach to obtain a clearance to join overhead, then obtain a frequency change to Denham.

7 NORTHOLT TRAFFIC

a) Northolt traffic in the Northolt Radar Manoeuvring Area (RMA) cross the Denham ATZ not below 1500 FT AMSL. To ensure separation, Denham circuit altitude 1000 FT AMSL. Aircraft wishing to enter the Northolt RMA must obtain clearance from Northolt on 126.450 MHz.

8 ATS ROUTE FLIGHTS

a) **Inbound aircraft**

Aircraft inbound via the ATS Route Network must follow the Heathrow Standard Arrival Routes (STAR) as shown at AD 2-EGLL-7-1 to 7-17. Pilots are to include EGLDZTZX in their Flight Plan.

b) **Outbound aircraft**

The Denham ATSU will notify the pending departure to London Terminal Control (Swanwick) (LTCC). The Denham ATSU will relay to pilots after departure instructions including the frequency for the appropriate LTCC sector and the pilot must request clearance to join CAS.

EGLD AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGLD AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGLD-2-1
AERODROME TRAFFIC ZONE and VRPS
AD 2.EGLD-4-1

EGLD AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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DENHAM EGLD

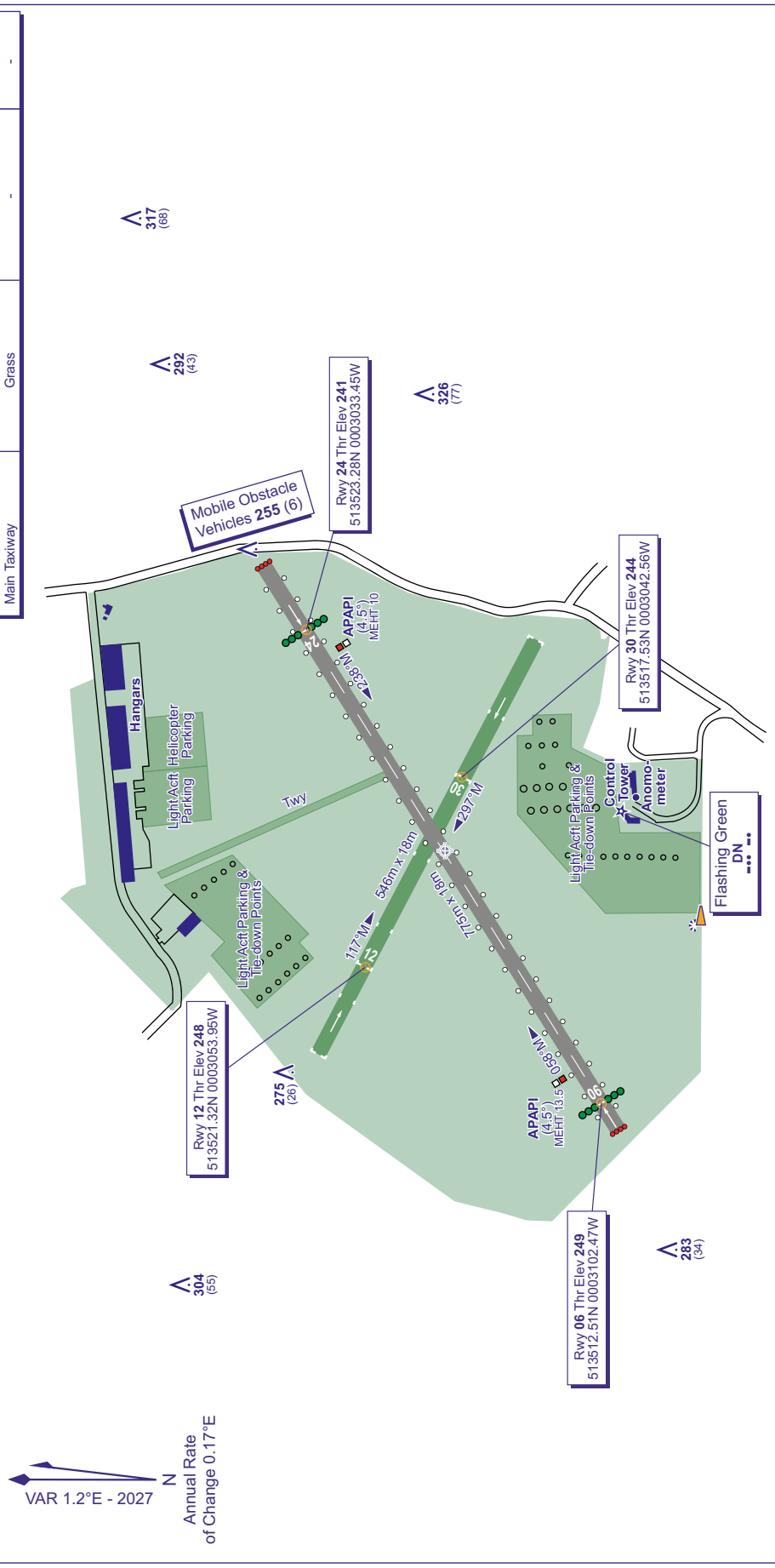
AD ELEV 249FT

ARP 513518N 0003047W

AERODROME CHART - ICAO

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 06/24	Asphalt	-	-
RWY 12/30	Grass	-	-
Main Apron	Grass	-	-
Main Taxiway	Grass	-	-

COM		
A/G	130.730	DENHAM RADIO
LIGHTING		
THR 06/24	Ll green W bars.	
RWY 06/24	Ll edge. End lights red.	



CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 21 JUL 25

AD 2-EGLD-2-1

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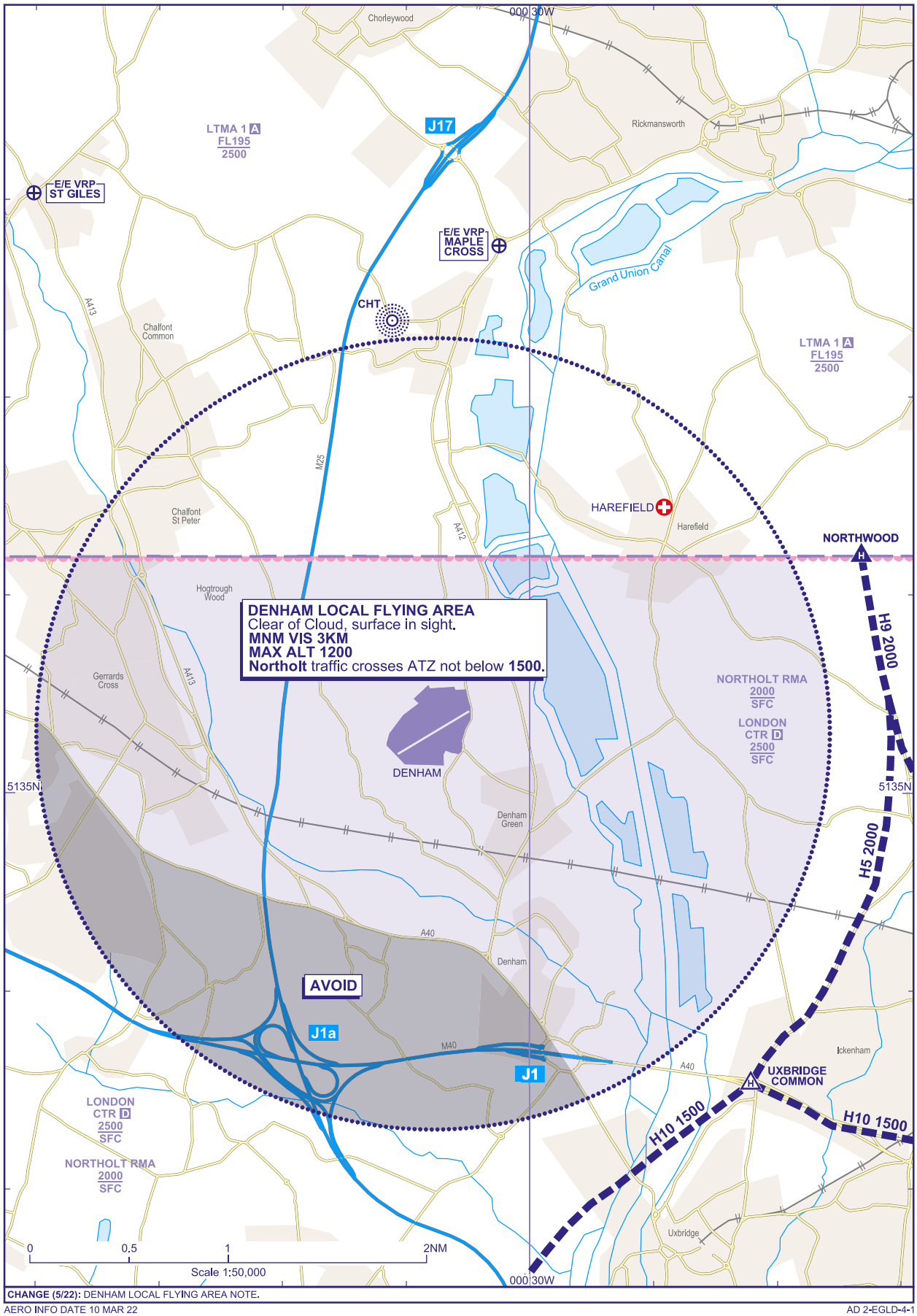
AERODROME TRAFFIC ZONE AND VRPs — DENHAM



CHANGE (5/22): DENHAM LOCAL FLYING AREA NOTE.

AERO INFO DATE 10 MAR 22

AD 2-EGLD-4-1

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EGBD — DERBY

EGBD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBD — DERBY

EGBD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 525135N Long: 0013703W Mid point of Runway 17/35.
2	Direction and distance from city	6 NM SW of Derby.
3	Elevation / Reference temperature / Mean Low Temperature	175 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.73°E (2027) / 0.18°E
6	AD Administration Address Telephone Telefax	DERBY AERO CLUB Derby Aerodrome, Hilton Road, Egginton, Derby, DE65 6GU. 01283-733803 01283-734829
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGBD AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 0900-SS (0800-1700); Sun & PH 0930-SS (0830-1700); and by arrangement.
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGBD AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL 15W/50, W80, S80, S100, Aerodiesel 10W/40.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Full maintenance facilities available on site.
7	Remarks	

EGBD AD 2.5 PASSENGER FACILITIES

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EGBD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGBD AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGBD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGBD AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGBD AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Chimney	525204.33N 0013654.45W	275 FT		No	
	Willington Power Station	525117.40N 0013227.76W	563 FT		No	

EGBD AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGBD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
05	047.57°	547 x 20 M	RWY surface: Grass	525128.16N 0013706.71W	THR 172.0 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
23	227.57°	547 x 20 M	RWY surface: Grass	525134.86N 0013654.60W	THR 174.0 FT	
10	097.78°	453 x 20 M	RWY surface: Grass	525138.07N 0013705.14W	THR 172.0 FT	
28	277.78°	453 x 20 M	RWY surface: Grass	525137.13N 0013653.77W	THR 174.0 FT	
17	171.29°	594 x 20 M	RWY surface: Grass	525144.83N 0013705.51W	THR 175.0 FT	
35	351.29°	594 x 20 M	RWY surface: Grass	525126.61N 0013700.90W	THR 172.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 05
						RWY 23 Threshold displaced by 193 M.
						RWY 10 Threshold displaced by 26 M.
						RWY 28 Threshold displaced by 144 M.
						RWY 17 For take-off only.
						RWY 35 For landing only.

EGBD AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
17	558 M	599 M	558 M		
35				534 M	
05	330 M	360 M	523 M	499 M	
23	523 M	585 M	523 M	306 M	
10	316 M	316 M	429 M	379 M	
28	433 M	433 M	429 M	261 M	

EGBD AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGBD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGBD AD 2.16 HELICOPTER LANDING AREA

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EGBD AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
DERBY ATZ A circle, 2 NM radius, centred at 525135N 0013703W on longest notified runway (17/35) except that part of the circle that comprises the East Midlands CTA, base 1500 FT amsl (1325 FT aal).	Upper limit: 2000 FT AGL Lower limit: SFC	G	DERBY RADIO English	6000 FT		

EGBD AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	DERBY RADIO	118.355 A/G frequency.			Mon-Sat 0900-SS (0800-1700); Sun & PH 0930-SS (0830-1700); and by arrangement.	ATZ hours coincident with A/G hours.

EGBD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGBD AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Runway 10/28 is only to be used for instruction in flying when a qualified flying instructor acts as pilot-in-command of the aircraft.
b) The aerodrome is not available for Public Transport passenger flights required to use a licensed aerodrome, or for aircraft unable to communicate by radio.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) With the exception of Runway 35, there are no QDM markings on the runways.
b) The displaced landing thresholds to Runways 05, 23 and 35 are marked by black and white wing bars. The displaced landing thresholds to Runways 10 and 28 are marked by orange and white wing bars to give visual differentiation from other runways.
c) An electricity transmission line and pylons, 100 FT AAL, cross the centre-line of Runway 23 1200 M from touchdown.
d) Turbulence may be experienced from trees on the approach to Runway 23. These trees also shield aircraft low on final approach from those at the 23 hold. A good listening watch should be maintained and all appropriate radio calls should be made.
e) Electricity transmission lines and pylons running north side and west of aerodrome 100 FT AAL (275 FT AMSL).
f) Aerodrome Obstacles

i. 10/Approach 28/Take-off

Earth Bank 182 FT AMSL, 470 M beyond start of TORA across runway centre-line.

ii. 23/Approach 05/Take-off

Hedge 185 FT AMSL, 528 M beyond start of TORA across runway centre-line.
Trees 215 FT AMSL, 600 M beyond start of TORA across runway centre-line.

iii. 28/Approach 10/Take-off

Telegraph Wire/Poles 200 FT AMSL, 475 M beyond start of TORA across runway centre-line.
Trees 225 FT AMSL, 640 M beyond start of TORA across runway centre-line.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) Intentional 'touch and goes' are not permitted.
b) Training flights from any aircraft not home based are not accepted without permission from aerodrome licensee.
c) Helicopter training is not permitted.

EGBD AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots are to avoid overflying local villages.

EGBD AD 2.22 FLIGHT PROCEDURES

a) Due to East Midlands CTA, no overhead joins are permitted.
b) Special procedures applying to instructional flights and arrival and departure procedures for all flights must be obtained by telephone from Derby Aero Club when arranging prior permission.
c) Circuit directions and heights: Runway 05 -LH, 1000 FT; Runway 23 - RH, 1000 FT; Runway 35 - RH, 800 FT; Runway 17 - LH (RH if Runway 23 is in use for landing), 800 FT; Runway 28 - RH, 800 FT; Runway 10 - LH, 800 FT.

EGBD AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBD AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBD-2-1

EGBD AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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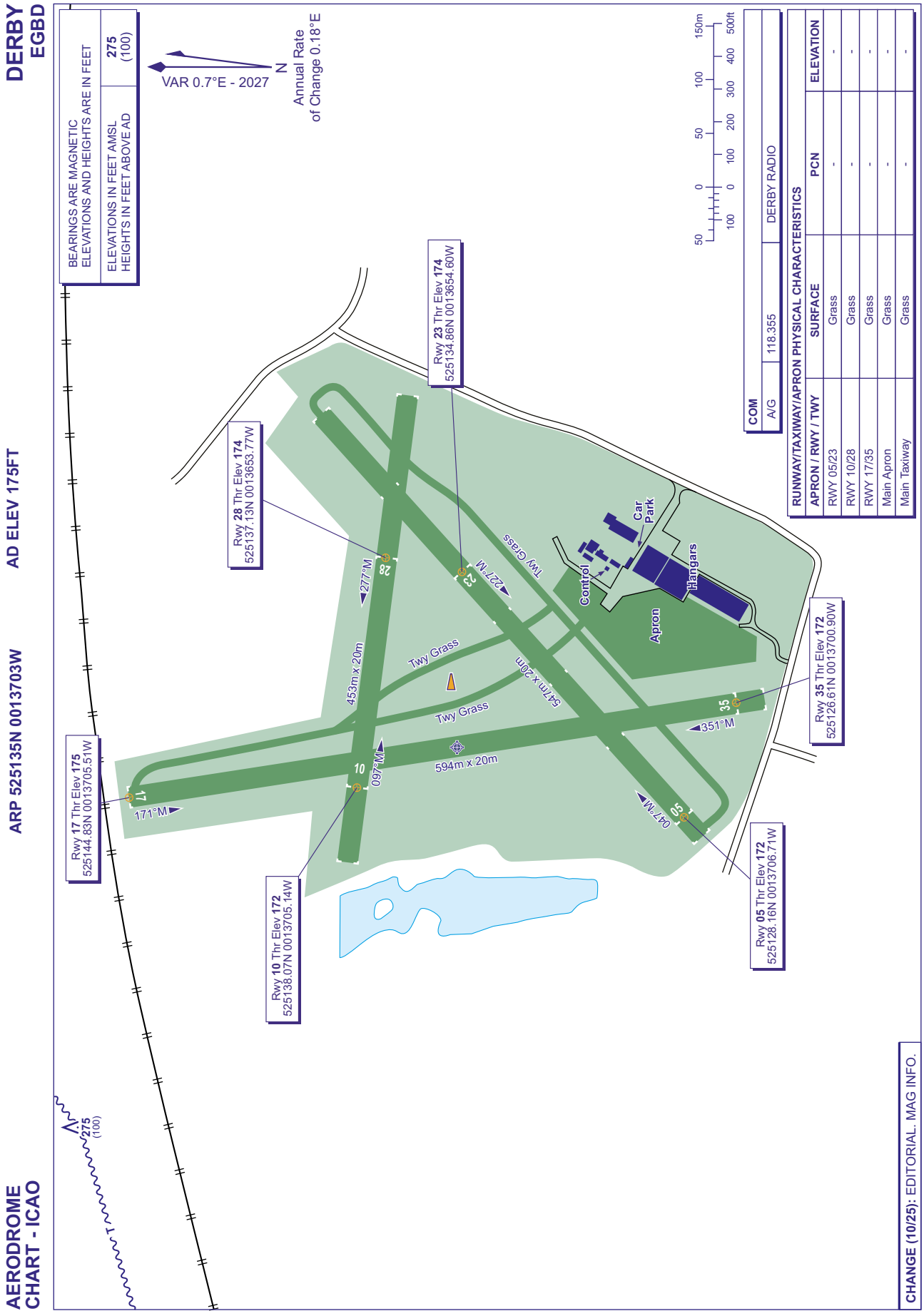
DERBY
EGBD
AD ELEV 175FT
ARP 525135N 0013703W
AERODROME
CHART - ICAO
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
275
(100)
VAR 0.7°E - 2027
N
Annual Rate
of Change 0.18°E
COM
A/G
118.355
DERBY RADIO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
PCN
ELEVATION
RWY 05/23
Grass
-
-
RWY 10/28
Grass
-
-
RWY 17/35
Grass
-
-
Main Apron
Grass
-
-
Main Taxiway
Grass
-
-
Rwy 17 Thr Elev 175
525144.83N 0013705.51W
Rwy 28 Thr Elev 174
525137.13N 0013653.77W
Rwy 23 Thr Elev 174
525134.86N 0013654.60W
Rwy 10 Thr Elev 172
525138.07N 0013705.14W
Rwy 35 Thr Elev 172
525126.61N 0013700.90W
Rwy 05 Thr Elev 172
525128.16N 0013706.71W
171°M
277°M
227°M
097°M
351°M
047°M
453m x 20m
543m x 20m
594m x 20m
Twy Grass
Twy Grass
Twy Grass
Control
Car
Park
Hangars
Apron
CHANGE (10/25): EDITORIAL. MAG INFO.

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EGPN — DUNDEE

EGPN AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPN — DUNDEE

EGPN AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 562709N Long: 0030133W Mid point of Runway 09/27
2	Direction and distance from city	0.5 NM S of Dundee.
3	Elevation / Reference temperature / Mean Low Temperature	17 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	169 FT
5	Magnetic Variation / Annual Change	1.14°W (2022) / 0.22°E
6	AD Administration Address Telephone Telefax	DUNDEE AIRPORT LTD Dundee Airport, Riverside Drive, Dundee, DD2 1UH. 01382-643242 (General Enquiries) 01382-662220 (ATC) 01382-662233 (Fuel) 01382-662200 (Administration and Ground Handling) 01382-662222 (ATIS) 01382-641263 (Flight notifications, Customs and Immigration) 01382-662221 (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPN AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0645-2100 (0545-2000); Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000).
2	Customs and immigration	Prior notice required
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	Via ATC.
6	MET Briefing Office	Via ATC.
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	As AD hours.
10	Security	H24
11	De-icing	As AD hours.
12	Remarks	This Aerodrome is PPR. Light Aircraft by phone to ATC, all others by Fax to Flight Notifications or by email to InfoDundee@HIAL.co.uk. Dundee does not operate an Out of Hours Indemnity Scheme and is not included in the HIAL Arrangements for Flights Outside Official Opening Hours. Any aircraft operator wishing to utilise Dundee Airport outside of the notified aerodrome operating hours must request an extension with at least 24 hours' notice by contacting Dundee Airport Administration by email to InfoDundee@HIAL.co.uk.

EGPN AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Limited. Prior notice required.
2	Fuel and oil types	AVTUR JET A-1
3	Fuelling facilities/capacity	AVTUR JET A-1: 110,000 L bulk tank, 17,000 L mobile bowser. Rotors-running refuelling (AVTUR Jet A1) of helicopters is available but restricted to pressure fed refuelling only.
4	De-icing facilities	Mobile aircraft de-icing rig.
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	Limited.

7	Remarks	Dundee Handling will co-ordinate all Public Transport flights. Ground Power Units are available for 28V DC only. An Aviramp is available to assist with the boarding of Passengers with reduced mobility.

EGPN AD 2.5 PASSENGER FACILITIES

1	Hotels	750 meters. Five within 2 km.
2	Restaurants	Snackbar in terminal. Licensed restaurant 200 M west of aerodrome entrance.
3	Transportation	Taxis and car hire. Nearest railway station Dundee 3 km.
4	Medical facilities	First aid treatment.
5	Bank and Post Office	
6	Tourist Office	In Terminal.
7	Remarks	

EGPN AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4: Sun-Fri RFF Category 3: Sat RFF Category 5 & 6 available on request. RFF Category 5 may be accepted under RFF Category 4 remission.
2	Rescue equipment	Water and mud rescue facilities are available for Runways 09/27 during normal published hours of operation, subject to serviceability of equipment, at times when the weather conditions and sea state are conducive to such rescue operation.
3	Capability for removal of disabled aircraft	Arrangements are in place with an off site contractor. Lifting capability 20 tonnes.
4	Remarks	

EGPN AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing. Runways 09/27 de-iced/anti-iced with KFOR (Potassium Formate fluids)/NAAC (Sodium Acetate solids).
2	Clearance priorities	Runway 09/27, Taxiway A, Taxiway B, Apron, Taxiway D, Taxiway E.
3	Remarks	Runway surface conditions during winter weather is reported giving details of the type, depth and extent of contamination for each third of the runway. Up to date information on Runway surface conditions can be obtained from ATC on 01382-662220.

EGPN AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Macadam PCN 27/F/C/Y/T WESTERN APRON Surface: Macadam PCN 23/F/C/Y/T
2	Taxiway width, surface and strength	Taxiway A: 15 M Surface: Macadam PCN 23/F/C/Y/T Taxiway B: 15 M Surface: Macadam PCN 16/F/C/Y/T Taxiway C: 10.5 M Surface: Macadam

		Taxiway D: 10.5 M Surface: Macadam PCN 12/F/C/Y/T Taxiway E: 10.5 M Surface: Macadam PCN 12/F/C/Y/T
3	Altimeter checkpoint location and elevation	Stand 1: 14 FT - Stand 2: 13 FT
4	VOR checkpoints	
5	INS checkpoints	See Aerodrome Chart.
6	Remarks	Pedestrian access between the airport terminal complex and the Western apron(located on the north side of Taxiway C) is by means of a marked footpath which can be found located to the rear of the parking area. Aircrew are reminded that access to and from this area is not permitted via the active taxiways.

EGPN AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1 and 2 marked for self manoeuvring with marshallers assistance. Stand 1 has two pushback stands for Fairchild Dornier 328 aircraft or fuselage length less than 23 M by arrangement.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: Runway designators, centre-line and threshold markings on both runways. Runway light(s): Runway guard lights at Holding Point A and B.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI (LGTD): 562705.59N 0030212.56W; 562705.65N 0030100.14W.

EGPN AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPN14630) 09/APPROACH 27/ TAKE-OFF	TREE	562736.71N 0031207.25W	672 FT	86 FT	No	
(EGPN14589) 09/APPROACH 27/ TAKE-OFF	TREE	562735.58N 0031204.97W	667 FT	73 FT	No	
(EGPN14002) 09/APPROACH 27/ TAKE-OFF	HV PYLON	562732.55N 0030742.99W	310 FT	139 FT	No	
(EGPN14900) 27/APPROACH 09/ TAKE-OFF	BUILDING CHIMNEY	562714.40N 0025937.32W	105 FT	53 FT	No	
(EGPN9201) 27/APPROACH 09/ TAKE-OFF	WINDSLEEVE	562705.65N 0030100.14W	38 FT	25 FT	Yes Red	
(EGPN14692) 27/APPROACH 09/ TAKE-OFF	TREE	562648.07N 0025418.80W	429 FT	64 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPN6095)	HV PYLON	562926.85N 0030344.99W	595 FT	95 FT	No	
(EGPN14966)	TOWER	562821.96N 0030012.17W	579 FT	273 FT	Yes Red	
(EGPN14873)	MAST	562812.95N 0025922.11W	662 FT	97 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPN14952)	WATER_TOWER	562804.71N 0030136.84W	451 FT	85 FT	No	
(EGPN15036)	TREE	562754.45N 0030039.89W	537 FT	72 FT	No	
(EGPN15237)	BUILDING	562753.72N 0030045.28W	519 FT	40 FT	No	
(EGPN15378)	INDUSTRIAL CHIMNEY	562745.42N 0030202.95W	377 FT	175 FT	No	
(EGPN14928)	BUILDING	562730.14N 0025901.96W	242 FT	119 FT	No	
(EGPN14926)	BUILDING	562727.33N 0025911.88W	222 FT	95 FT	No	
(EGPN14919)	CHURCH SPIRE	562722.73N 0025943.63W	235 FT	128 FT	No	

EGPN AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.
4	Trend forecast Interval of issuance	TAFs, METARs. TAFs 3 hours. METARs 30 minutes.
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	On request. English.
7	Charts and other information available for briefing or consultation	F214 (UK Spot wind forecast chart), F215 (UK Low-level forecast chart) and GAMET.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	DUNDEE
10	Additional information (limitation of service, etc.)	METAR information available by ATIS on Telephone: 01382-662222.

EGPN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
09	090.52°	1400 x 30 M	RWY surface: Asphalt, Grooved PCN 30/F/C/Y/T	562708.89N 0030213.85W 169.3 FT	THR 17.0 FT	
27	270.54°	1400 x 30 M	RWY surface: Asphalt, Grooved PCN 30/F/C/Y/T	562708.47N 0030052.10W 169.3 FT	THR 13.7 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 09 Strip Dimensions: 1520 x 140 M.
						RWY 27 Strip Dimensions: 1520 x 80 M.

EGPN AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1319 M	1319 M	1400 M	1400 M	
27	1319 M	1319 M	1400 M	1400 M	

EGPN AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Uni-directional simple approach with two crossbars. 375 M Light intensity high	Green Light intensity high Elevated with HI elevated green wingbars	PAPI Left/3° 46 FT 284 M			HI elevated bi-directional with LI omni-directional component. White with end 360 M yellow 'caution zone'.	Elevated Red		
27		Green Light intensity high Elevated	PAPI Left/ 3.75° 41 FT 202 M			HI elevated bi-directional with LI omni-directional component. White with end 360 M yellow 'caution zone'.	Elevated Red		

EGPN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 562705.67N 0030059.57W; 562705.58N 0030213.66W.
3	TWY edge and centre line lighting	EDGE: Apron and Taxiways A, B, D and E blue edge lights. Taxiway C unlit. Only available daylight with ATC approval.
4	Secondary power supply/switch-over time	Standby Generator/10 seconds.
5	Remarks	

EGPN AD 2.16 HELICOPTER LANDING AREA

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EGPN AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
DUNDEE ATZ A circle, 2 NM radius, centred at 562709N 0030133W on longest notified runway (09/ 27)	Upper limit: 2000 FT AGL Lower limit: SFC	G	DUNDEE APPROACH English	3000 FT		Because of operational difficulties caused by the siting of the ATC facility, flight in the ATZ to the North of Runway 09/27, and the extended centre-line, is not normally permitted.

EGPN AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	DUNDEE APPROACH	122.905 DOC 25 NM/ 10,000 FT			Mon-Fri 0645-2100 (0545-2000): Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000) and by arrangement.	ATZ hours coincident with Approach hours, but not by arrangement. VDF 562705.67N 0030135.95W
TWR	DUNDEE TOWER	122.905 DOC 25 NM/ 10,000 FT.			Mon-Fri 0645-2100 (0545-2000): Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000) and by arrangement.	VDF 562705.67N 0030135.95W
ATIS	DUNDEE INFORMATION	119.330 DOC 60 NM/ 20,000 FT			Mon-Fri 0645-2100 (0545-2000): Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000) and by arrangement.	
OTHER	DUNDEE RESCUE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.16°W (2027)	IDDE	108.100 MHz	Mon-Fri 0645-2100 (0545-2000): Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000) and by arrangement.	562708.42N 0030042.55W		(RWY 09) Localizer DOC 25 NM.
ILS/GP	IDDE	334.700 MHz	Mon-Fri 0645-2100 (0545-2000): Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000) and by arrangement.	562712.05N 0030159.48W		(RWY 09) 3° ILS Ref Datum Hgt 41 FT. Quality of GP guidance is not suitable for coupled approaches below 200 FT. Due to terrain, LOC and GP flag alarms may be experienced at northern edge of coverage when below glidepath sector. Full scale fly-up indications may not be maintained when left of centre-line and below GP. Glidepath DOC 10 NM.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB (L) 0.20°W (2027)	DND	394.000 kHz	Mon-Fri 0645-2100 (0545-2000): Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000) and by arrangement.	562718.24N 0030653.73W		Range 25 NM. Off aerodrome 2.6 NM from Runway 09 Threshold.
ILS/DME	IDDE	18X 108.100 MHz	Mon-Fri 0645-2100 (0545-2000): Sat 0900-1600 (0800-1500); Sun 0900-2100 (0800-2000) and by arrangement.	562705.76N 0030133.03W	31 FT	(RWY 09) On AD. Zero range is indicated at THR of Runway 09 and 27. Due to terrain effects, the DME may unlock in the sector 035 to 057 MAG. Localizer DOC 25 NM and Glidepath DOC 10 NM.

EGPN AD 2.20 LOCAL AERODROME REGULATIONS

1 AERODROME REGULATIONS

a) All training flights are strictly PPR. For full conditions see section 7 Training.
b) This aerodrome is not available for aircraft not able to communicate with ATC by radio.
c) Because of rising high ground and a dense urban area, the view to the north from the ATC VCR is restricted. Local aircraft movements to the north of the aerodrome are restricted.
d) Use of Dundee Aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome or found at www.hial.co.uk.
e) Operating crew are responsible for ensuring that their aircraft when parked and unattended at Dundee Airport are appropriately secured and sealed in line with operator's security requirements. In addition, operating crew are also responsible for carrying out the appropriate level of security checks when returning to their aircraft to meet security regulatory requirements.
f) Drone operators should endeavour to provide a minimum 24 hours notice of any drone flight whenever possible to Dundee ATC.
g) Passengers should be escorted and supervised at all times whilst on the aerodrome.

2 GROUND MOVEMENT

a) Park as instructed by ATC, usually under marshaller guidance.
b) Light aircraft shall be directed to the grass eastern light aircraft park where marshalling guidance may be provided.
c) Start-up requests are mandatory for all aircraft parked on the Main and Western Aprons.
d) Aircrew are to wear high visibility jackets whilst on the aprons and movement areas.
e) Auxiliary Power Units are only to be operated 30 minutes after/before on/off block times. Extremis request outside these times are at the discretion of ATC.
f) All aircraft parking on the aprons with a MTOW of 13 tonnes or less are requested to leave the aircraft with 'Brakes Off' to enable towing.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Aerodrome is in the vicinity of Leuchars MATZ.
b) Because of the surrounding open spaces and tidal mud flats adjacent to the aerodrome, birds are a constant hazard at Dundee. At high tide Waders tend to roost on grass areas of the aerodrome. Throughout most of the year the hazard is moderate but may become severe at short notice when large concentrations of migratory birds pass throughout the area.
c) Taxiway Charlie is restricted to aircraft with weight of 5700 KG or less. The width of this taxiway is 10.5 M with asphalt surface.
d) Caution - Runway 09 GP Mast (Lgtd) (15 M AGL - 100 M north of Runway 09 threshold area) infringes the 1:10 obstacle protected surface projected from the runway centre-line.

e) Due to the constraints of the circuit, TCAS equipped aircraft should be aware that there is an increased chance of TCAS events occurring whilst joining or flying within the visual circuit.
f) Bird scaring takes place regularly.
g) Pilots are warned of helicopter activity in and out of Ninewells Hospital Helipad situated just north of the 09 Threshold (345°T, 0.6 NM).
h) Pilots are warned that unauthorised ground based laser lights have been directed towards aircraft in the vicinity of the aerodrome. All incidents should be reported immediately via the Tower to the Airport Authority.
i) Mobile jack up oil rigs are serviced at the Port of Dundee (562755.11N 0025536.90W) maximum height 540 FT AMSL and display red obstruction lights. The number of rigs at this location can vary.
j) Parachute activity may take place at Errol Aerodrome (562418N 0031055W, 6 NM SW of Dundee ARP) normally during daylight hours Wed-Sun and PH. The Dundee ATIS will include a warning when activity has been notified. Aircrew are advised to remain well clear of the drop zone when notified as active and will be provided with deconfliction advice by Dundee ATC when required or requested.
k) Pilots are to be aware of possible turbulence on both runways when the wind has a northerly component in excess of 10 KT.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

a) All training is subject to prior notification.
b) All Instrument training is subject to prior booking with ATC Tel: 01382-662220. The filing of a flight plan with intention to conduct instrument training does not constitute prior notification or booking. Failing to make a booking may result in aircraft being refused use of the facilities.
c) Operators intending to follow a programme of training flights should obtain prior approval from ATC via the Duty ATCO, Tel: 01382-662220.

EGPN AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots should avoid overflying Nine-Wells Hospital (1.2 nm bearing 306°T from the aerodrome).
b) Helicopters should avoid overflying the Docks area below 800 ft amsl.

EGPN AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit directions: Runway 09 - RH; Runway 27 - LH. Remain South of the Runway at all times.
b) Circuit Height: 1000 FT AAL unless otherwise directed by ATC.
c) Circuits are to be flown in such a manner as to avoid flight over built up areas in the vicinity of the airport whenever practicable.

2 DEPARTURES

a) To reduce conflict with traffic operating within the Leuchars MATZ, ATC may instruct VFR aircraft departing to the east to remain at not above 1000 FT AMSL until passing Broughty Castle northbound.
b) Jet and Turbine aircraft departing to the north are required to either climb straight ahead to 2000 FT before setting course or are to turn south off runway heading and set course overhead not below 2000 FT. ATC will advise the preferred option dependent on the traffic situation at the time.
c) Unless otherwise directed by ATC, VFR departures to the east from Runway 27 and VFR departures to the west from Runway 09 will be expected to depart the circuit from the end of the down-wind leg. The down-wind leg in both instances is south of the midpoint of the Firth of Tay.
d) To reduce traffic confliction, VFR departures to the east from Runway 27 should leave the down-wind leg and follow the south bank of the Firth of Tay towards the estuary mouth and only turn north after passing abeam Broughty Castle VRP.
e) If for any reason flight over water is undesirable, inform ATC and an alternative routing may be offered, subject to traffic, which reduces or removes the need to overfly the Firth of Tay.
f) Last departure to be no later than 15 minutes prior to Airport closure time.

3 ARRIVALS

a) Unless otherwise directed by ATC, IFR flights conducting a visual approach to either runway should expect to descend not below 2000 FT until directed by ATC and anticipate establishing on final approach no closer than 4 NM from touch-down.
b) Pilots of inbound IFR aircraft shall acknowledge receipt of the Transition Level on first contact with Dundee ATSU. The Transition Level will be broadcast on ATIS.

4 MISSED APPROACH PROCEDURE

a) EGD604 is 7 NM east of Dundee ARP. If it appears likely that during the standard missed approach, low performance aircraft will infringe EGD604 then such aircraft should turn right at I-DDE DME 4 onto track 136°M and climb to 2000 (1983) FT before turning right to return to NDB(L) DND at 3000 FT. Pilots should advise ATC on turning onto 136°M and expect to change to Leuchars Approach when instructed for radar assistance.

5 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5
b) NDB(L) and DME I-DDE are not co-located.
c) The Category C instrument approach procedure to Dundee Airport infringes the Perth ATZ (when active) at 1800 FT above Perth aerodrome elevation.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGPN AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGPN AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPN-2-1
VFR ARRIVAL and DEPARTURE ROUTES
AD 2.EGPN-4-1
INSTRUMENT APPROACH CHART ILS/DME RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPN-8-1
INSTRUMENT APPROACH CHART LOC/DME RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPN-8-2
INSTRUMENT APPROACH CHART RNP RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPN-8-3
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPN-8-4
INSTRUMENT APPROACH CHART RNP RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPN-8-5
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09
AD 2.EGPN-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 27
AD 2.EGPN-8-7

EGPN AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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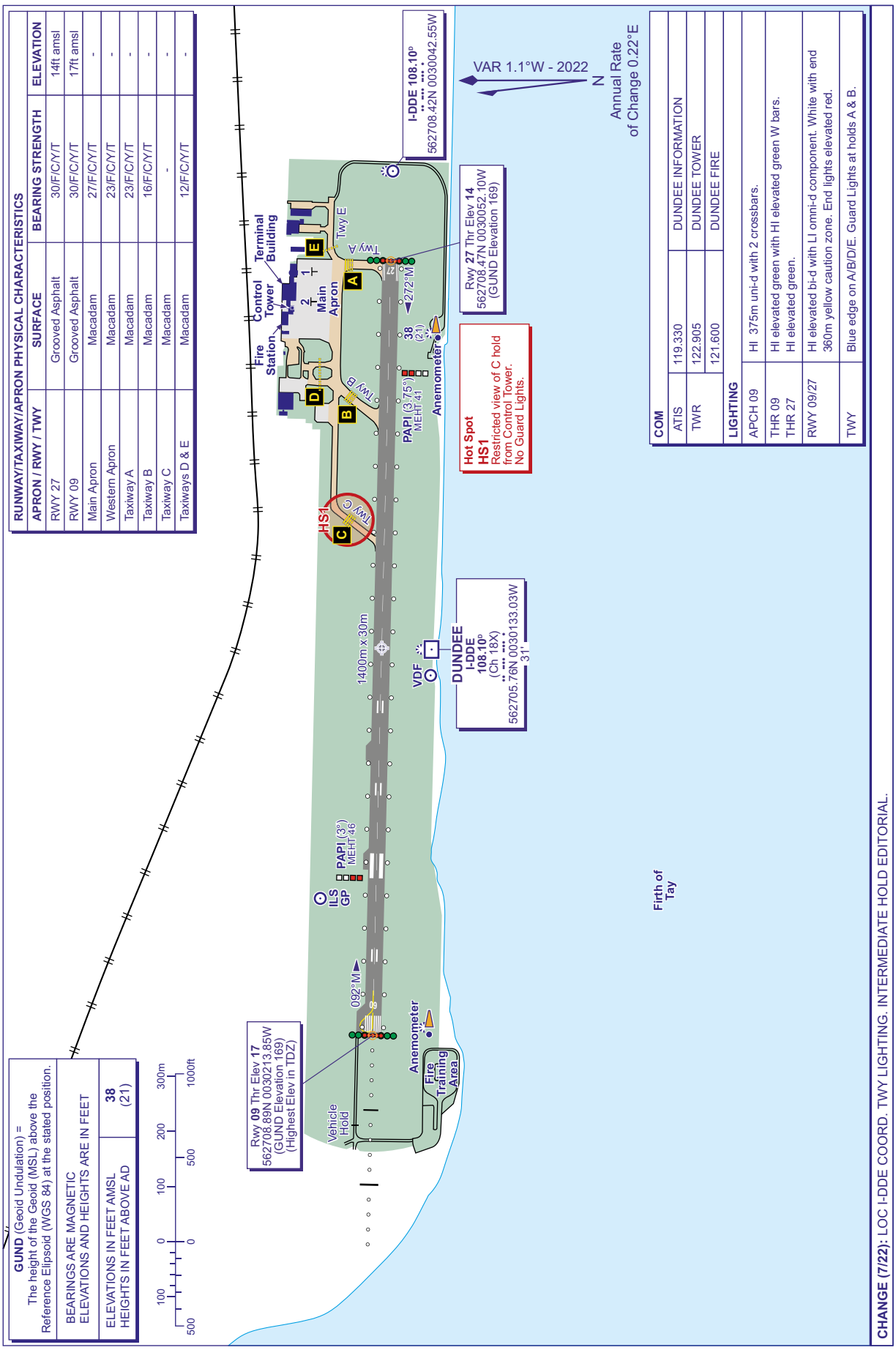
DUNDEE EGPN

AERODROME CHART - ICAO

ARP 562709N 0030133W

AD ELEV 17FT



AERO INFO DATE 27 APR 22

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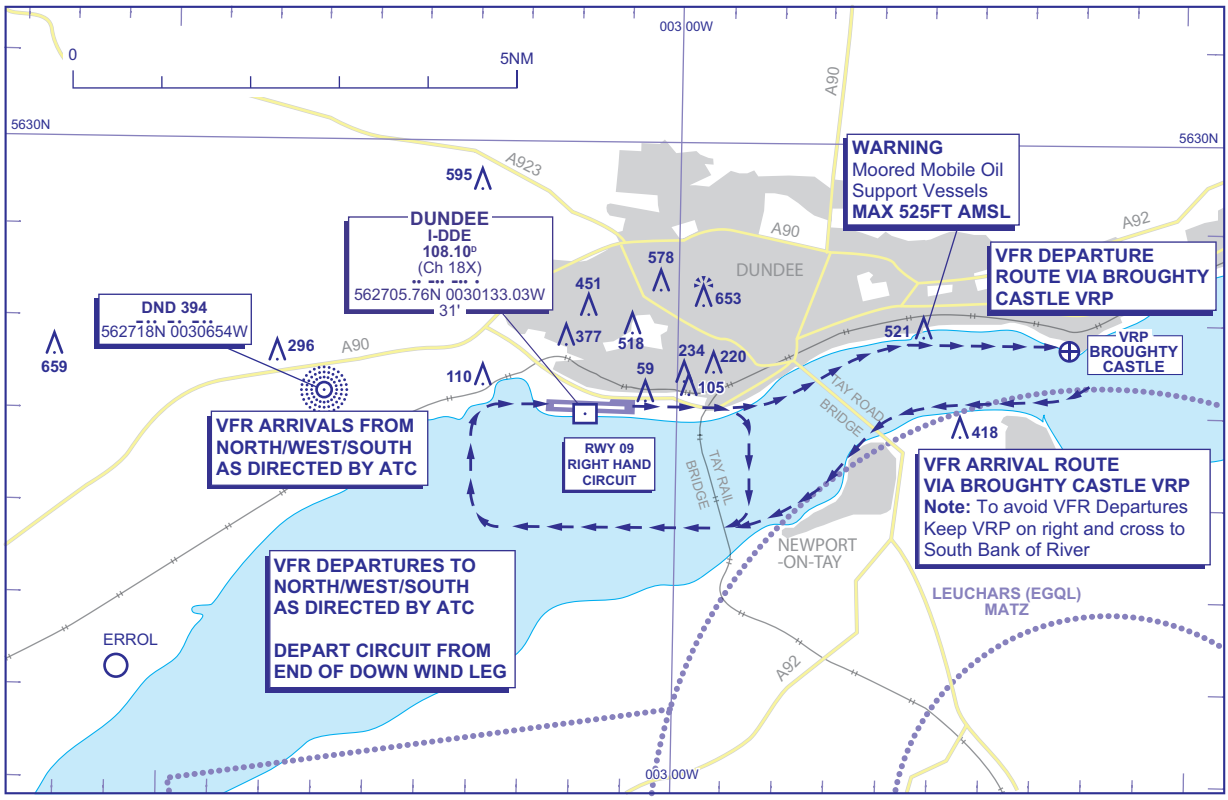
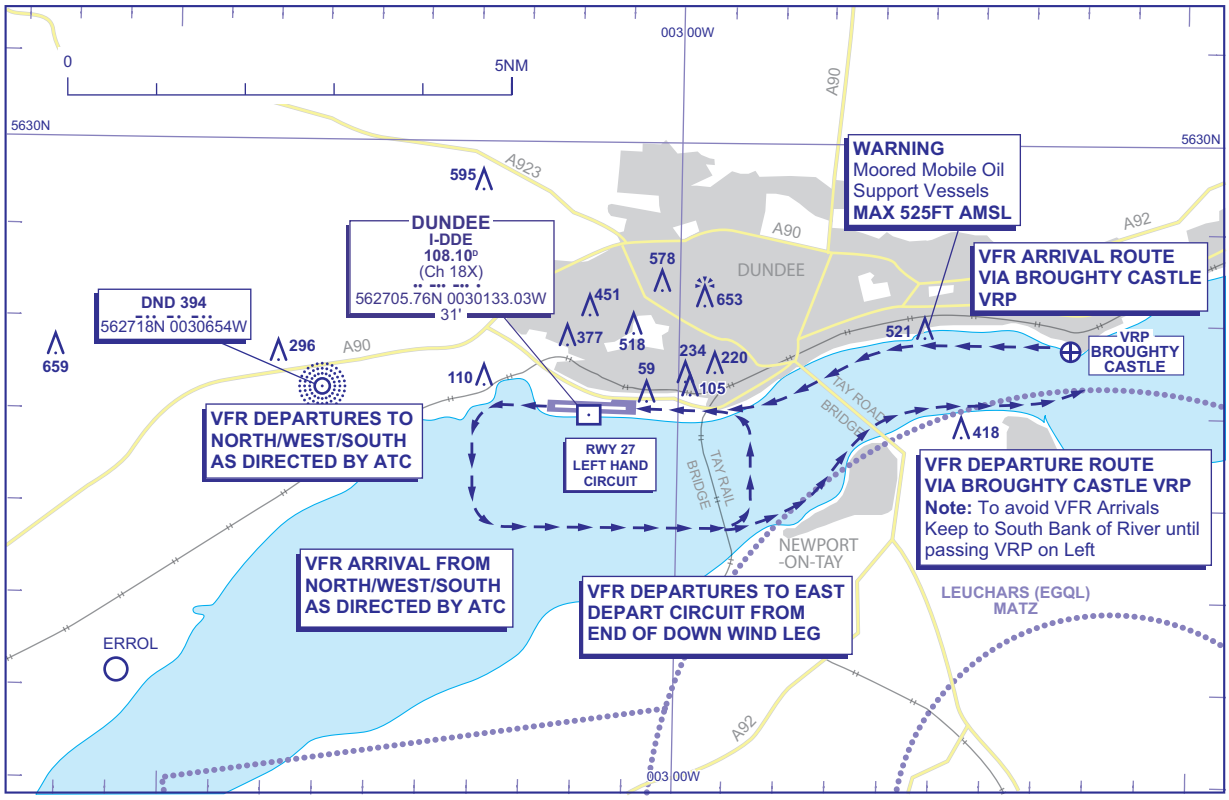
VFR ARRIVAL AND DEPARTURE ROUTES — DUNDEE

RWY 09 - VFR ROUTES



RWY 27 - VFR ROUTES



CHANGE (5/16): NEW CHART

AERO INFO DATE 24 FEB 16

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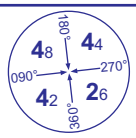
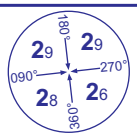
INSTRUMENT APPROACH CHART - ICAO

DUNDEE ILS/DME RWY 09
(ACFT CAT A,B,C)



MSA 25NM NDB(L) DND

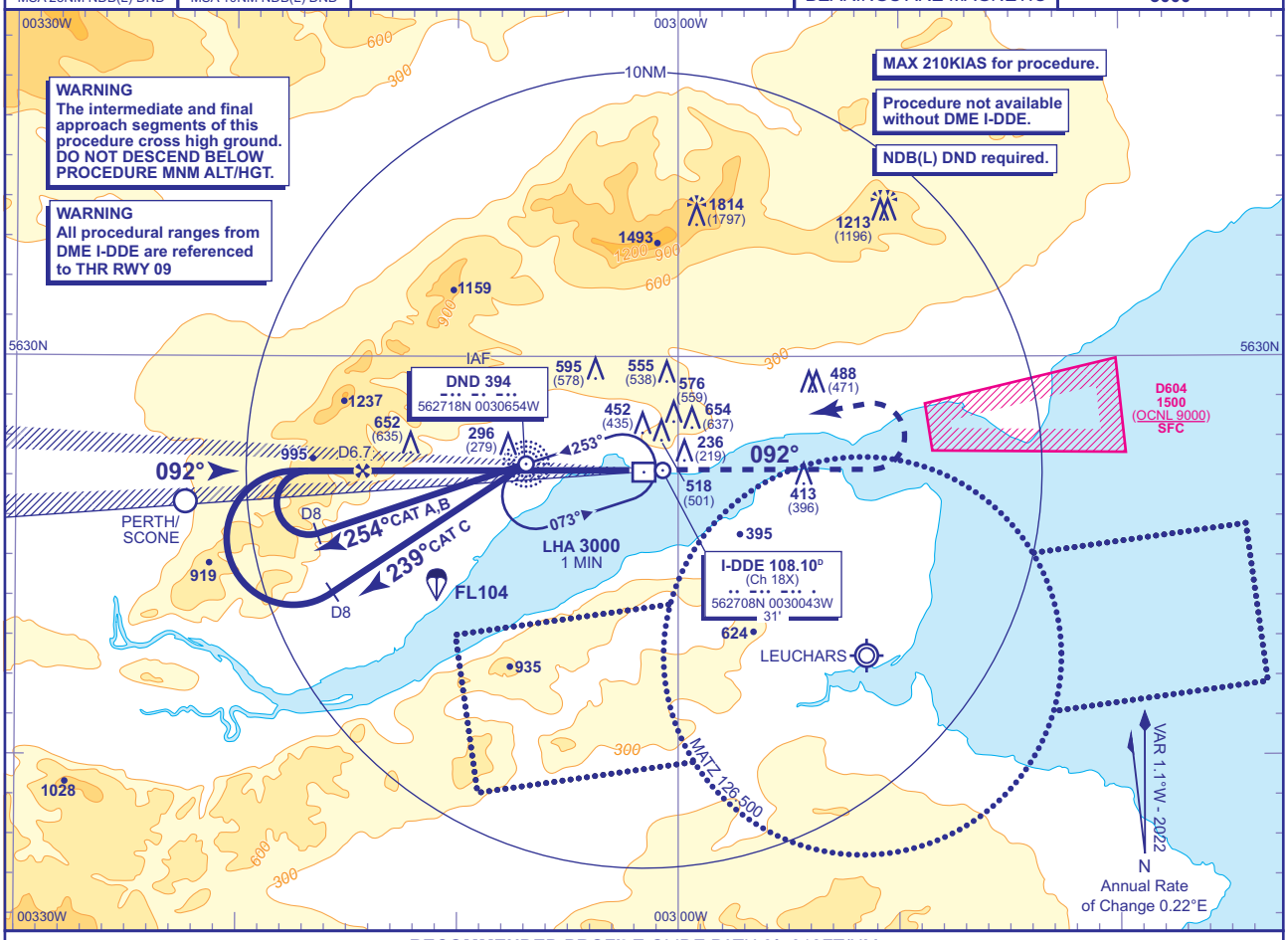


MSA 10NM NDB(L) DND

APP	122.905	DUNDEE APPROACH	
TWR	122.905	DUNDEE TOWER	
ATIS	119.330	DUNDEE INFORMATION	

AD ELEVATION	17
THR ELEVATION	17
OBSTACLE ELEVATION	1814 AMSL (1797) (ABOVE THR)
BEARINGS ARE MAGNETIC	

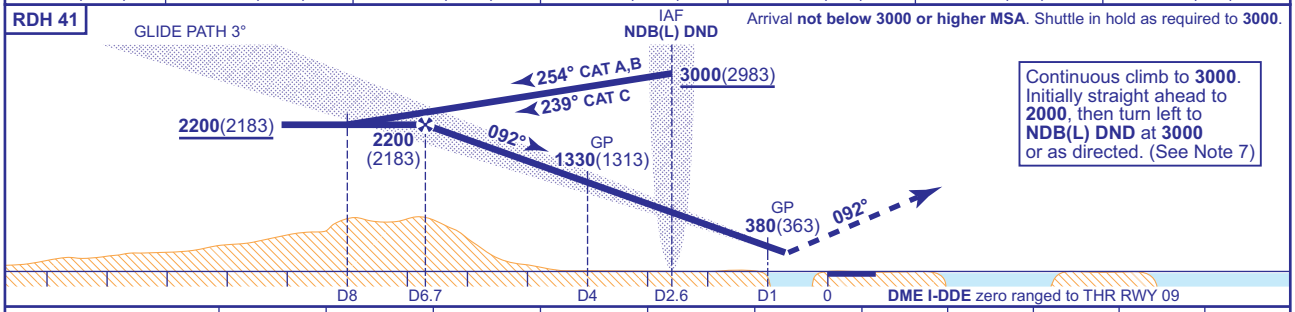
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-DDE	6	5	4	3	2	1
ALT(HGT)	**1970**(1953)	**1650**(1633)	**1330**(1313)	**1010**(993)	**690**(673)	**380**(363)

RDH 41



Aircraft Category		A	B	C
OCA (OCH)	CAT I	**297**(280)	**307**(290)	**317**(300)
VM(C)OCA (OCH AAL)	Total Area	**970**(953)	**970**(953)	**1170**(1153)
	South of RWY 09/27	**540**(523)	**750**(733)	**1080**(1063)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

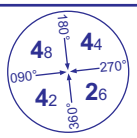
NOTE 1 Subject to ATC approval, when inbound to NDB(L) DND and within I-DDE DME 10, aircraft may descend to **3000**.
2 NDB(L) DND is 2.6NM from THR RWY 09 and is offset 230M north of LOC C/L.
3 The Category C Instrument Approach Procedure infringes the Perth ATZ at 1800FT above Perth aerodrome elevation. Pilots must notify ATC of their intention to conduct a Category C approach on first contact.
4 The eastern edge of the perth ATZ lies 9.5NM west of THR RWY 09. To prevent confliction with possible VFR traffic in the Perth ATZ, pilots should not extend the outbound leg of the base turn beyond the prescribed procedural distances.
5 Due to terrain, LOC and glidepath flag alarms may be experienced at northern edge of coverage when below glidepath sector.
6 Quality of glidepath guidance is not suitable for coupled approaches below 200FT.
7 EGD604 is 7NM east of Dundee ARP. If it appears likely that during the standard missed approach above, low performance aircraft will infringe EGD604 then such aircraft should turn right at I-DDE DME 4 onto track 136°M and climb to **2000**(1983) before turning right to return to NDB(L) DND at **3000**. Pilots should advise ATC on turning onto 136°M and expect to change to Leuchars Approach when instructed for radar assistance.

CHANGE (4/24): EGR612 WITHDRAWN. HOLD BEARINGS UPDATED.

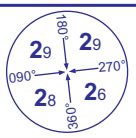
AERO INFO DATE 29 JAN 24

INSTRUMENT APPROACH CHART - ICAO

DUNDEE LOC/DME RWY 09
(ACFT CAT A,B,C)



MSA 25NM NDB(L) DND

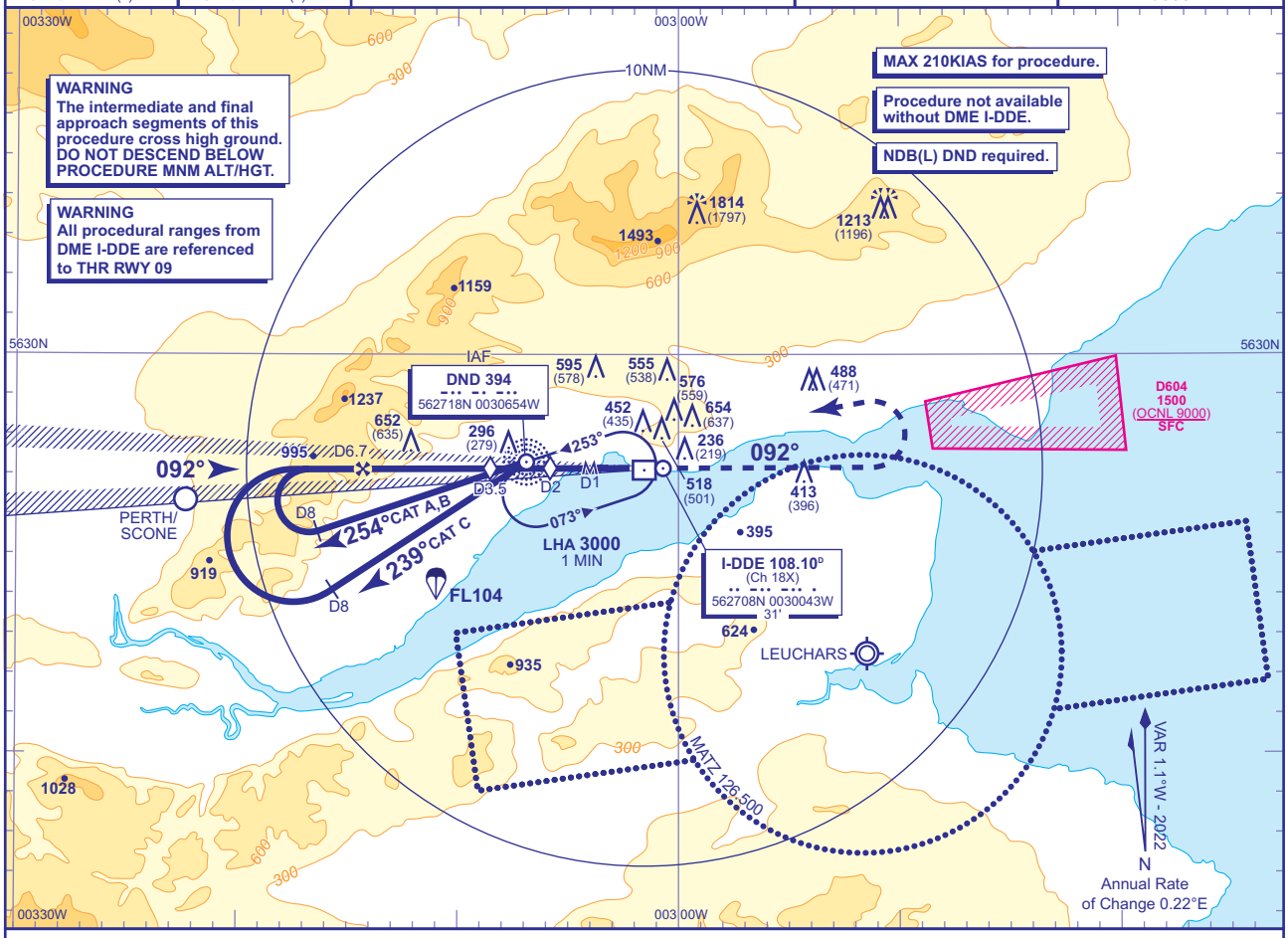


MSA 10NM NDB(L) DND

APP	122.905	DUNDEE APPROACH	
TWR	122.905	DUNDEE TOWER	
ATIS	119.330	DUNDEE INFORMATION	

AD ELEVATION	17
THR ELEVATION	17
OBSTACLE ELEVATION **1814 AMSL** (1797) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

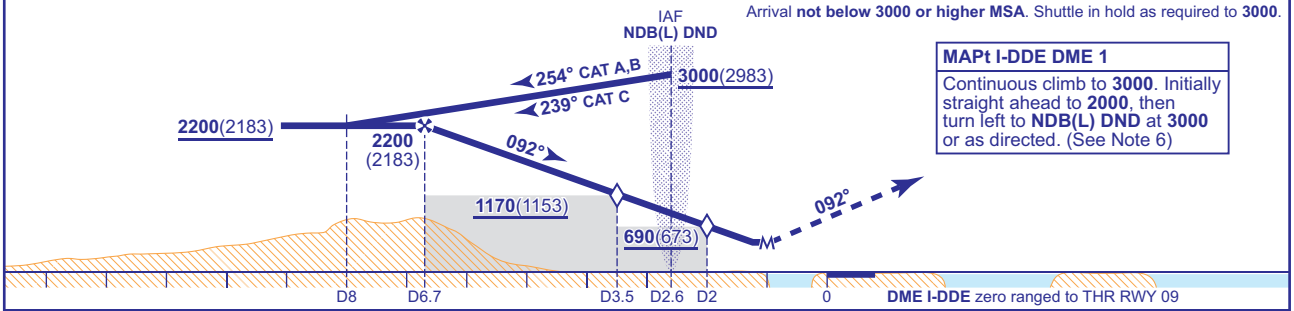
TRANSITION ALTITUDE
3000



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-DDE	6	5	4	3.5 **(SDF)**	3	2 **(SDF)**
ALT(HGT)	**1970**(1953)	**1650**(1633)	**1330**(1313)	**1170**(1153)	**1010**(993)	**690**(673)

Arrival **not below 3000 or higher MSA**. Shuttle in hold as required to **3000**.



MAPt I-DDE DME 1
Continuous climb to **3000**. Initially straight ahead to **2000**, then turn left to **NDB(L) DND** at **3000** or as directed. (See Note 6)

Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**Procedure**	**480**(463)	**480**(463)	**480**(463)
VM(C)OCA (OCH AAL)	**Total Area**	**970**(953)	**970**(953)	**1170**(1153)
	South of RWY 09/27	**540**(523)	**750**(733)	**1080**(1063)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

NOTE 1 Subject to ATC approval, when inbound to NDB(L) DND and within I-DDE DME 10, aircraft may descend to **3000**.
2 NDB(L) DND is 2.6NM from THR RWY 09 and is offset 230M north of LOC C/L.
3 The Category C Instrument Approach Procedure infringes the Perth ATZ at 1800FT above Perth aerodrome elevation. Pilots must notify ATC of their intention to conduct a Category C approach on first contact.
4 The eastern edge of the perth ATZ lies 9.5NM west of THR RWY 09. To prevent confliction with possible VFR traffic in the Perth ATZ, pilots should not extend the outbound leg of the base turn beyond the prescribed procedural distances.
5 Due to terrain, LOC and glidepath flag alarms may be experienced at northern edge of coverage when below glidepath sector.
6 EGD604 is 7NM east of Dundee ARP. If it appears likely that during the standard missed approach above, low performance aircraft will infringe EGD604 then such aircraft should turn right at I-DDE DME 4 onto track 136°M and climb to **2000**(1983) before turning right to return to NDB(L) DND at **3000**. Pilots should advise ATC on turning onto 136°M and expect to change to Leuchars Approach when instructed for radar assistance.

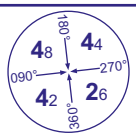
CHANGE (4/24): EGR612 WITHDRAWN. HOLD BEARINGS UPDATED.

AERO INFO DATE 29 JAN 24

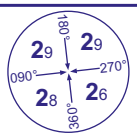
AD 2-EGPN-8-2

INSTRUMENT APPROACH CHART - ICAO

DUNDEE
RNP
RWY 09
(ACFT CAT A,B,C)



MSA 25NM NDB(L) DND

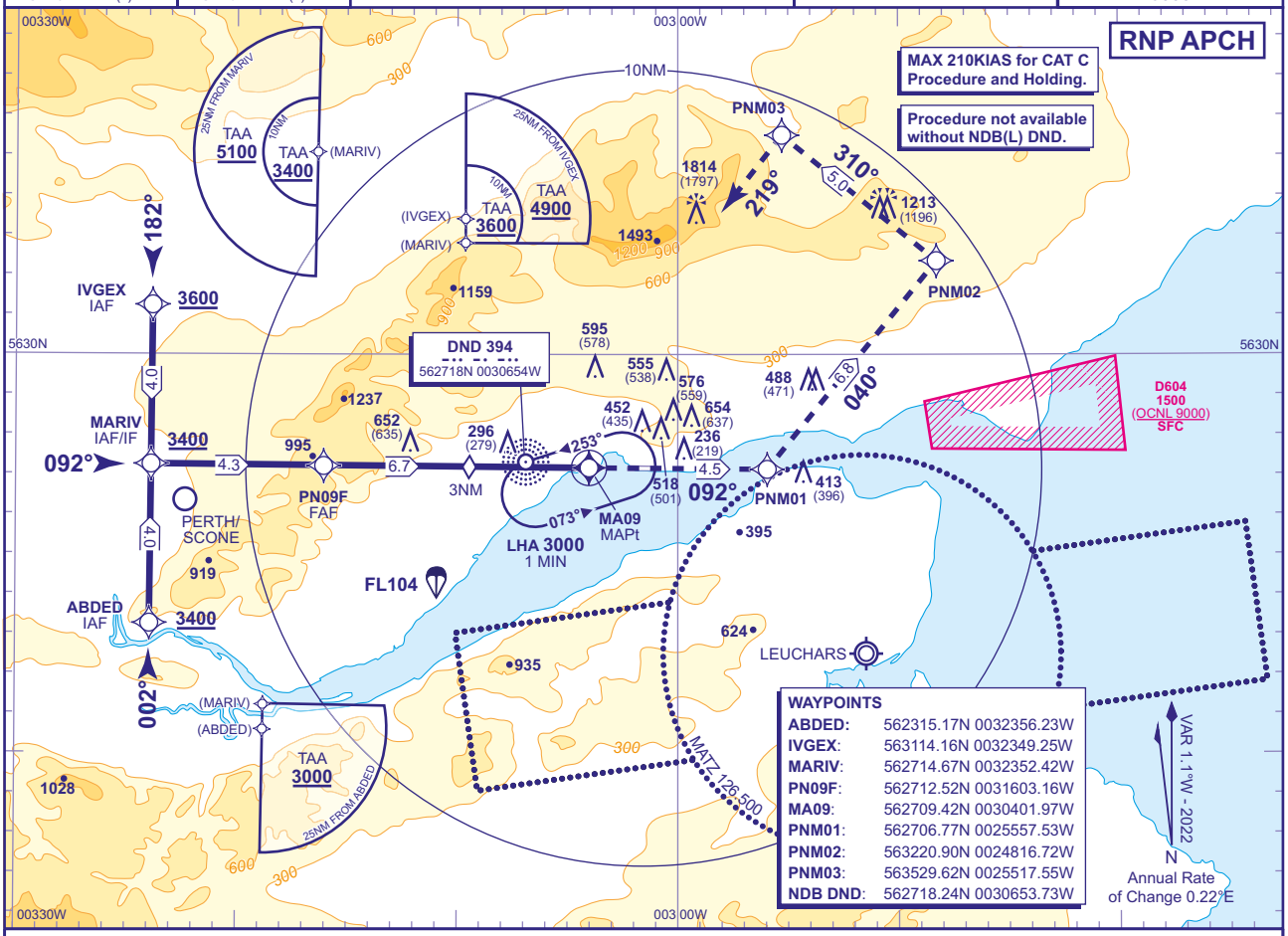


MSA 10NM NDB(L) DND

APP	122.905	DUNDEE APPROACH	
TWR	122.905	DUNDEE TOWER	
ATIS	119.330	DUNDEE INFORMATION	

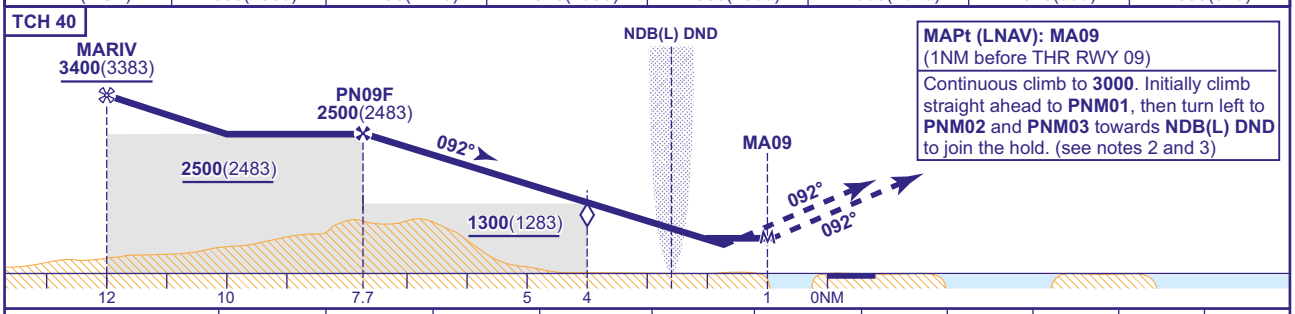
AD ELEVATION	17
THR ELEVATION	17
OBSTACLE ELEVATION **1814 AMSL** (1797) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
3000



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

NM to MAPt (MA09)	7	6	5	4	3 (SDF)	2	1
ALT(HGT)	**2600**(2583)	**2290**(2273)	**1970**(1953)	**1650**(1633)	**1330**(1313)	**1010**(993)	**690**(673)



MAPt (LNAV): MA09
(1NM before THR RWY 09)

Continuous climb to **3000**. Initially climb straight ahead to **PNM01**, then turn left to **PNM02** and **PNM03** towards **NDB(L) DND** to join the hold. (see notes 2 and 3)

Aircraft Category		A	B	C
OCA (OCH) Climb Gradient	LNAV 2.5%	**690**(673)	**690**(673)	**690**(673)
	LNAV 3%	**550**(533)	**550**(533)	**550**(533)
VM(C)OCA (OCH AAL)	Total Area	**970**(953)	**970**(953)	**1170**(1153)
	South of RWY 09/27	**690**(673)	**750**(733)	**1080**(1063)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 NDB(L) DND is 2.6NM from THR RWY 09 and is offset 230M north of extended RWY C/L.
2 Missed approach MAX 185KIAS.
3 Missed approach reverts to conventional navigation to hold at NDB(L) DND.

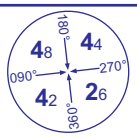
CHANGE (4/24): EGR612 WITHDRAWN.

AERO INFO DATE 26 JAN 24

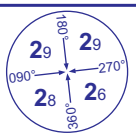
AD 2-EGPN-8-3

INSTRUMENT APPROACH CHART - ICAO

DUNDEE NDB(L)/DME RWY 09
(ACFT CAT A,B,C)

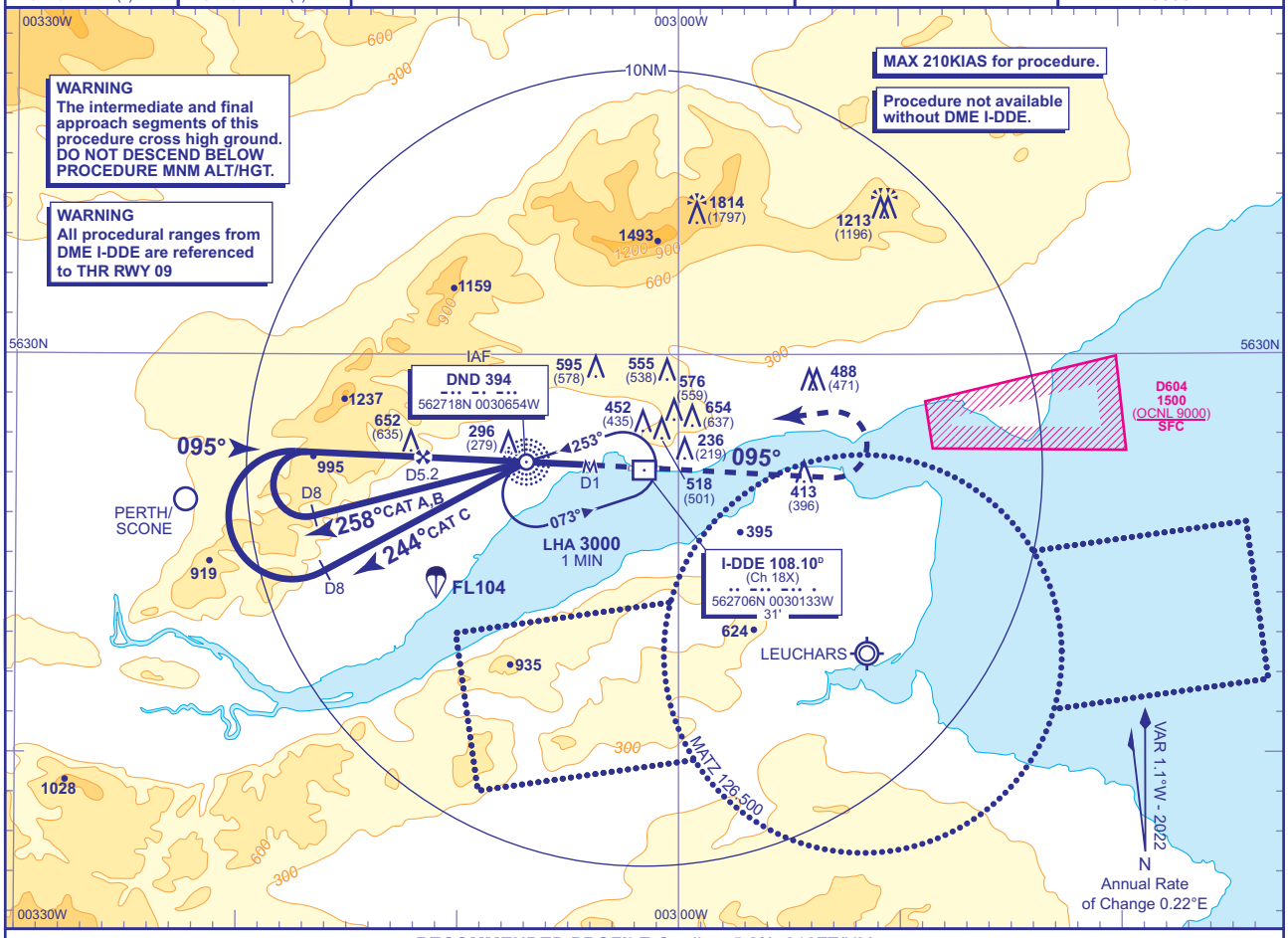


MSA 25NM NDB(L) DND



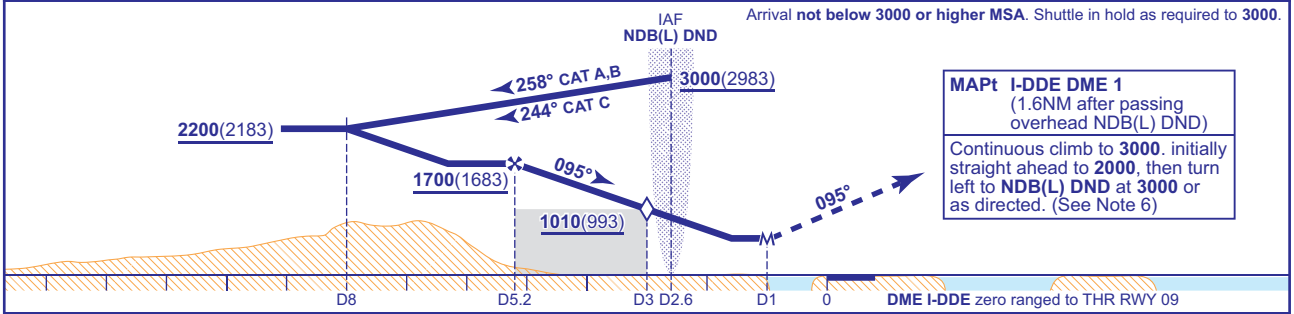
MSA 10NM NDB(L) DND

APP	122.905	DUNDEE APPROACH	AD ELEVATION	17	
TWR	122.905	DUNDEE TOWER	THR ELEVATION	17	
ATIS	119.330	DUNDEE INFORMATION	OBSTACLE ELEVATION **1814 AMSL** (1797) (ABOVE THR)		TRANSITION ALTITUDE **3000**
			BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM

DME I-DDE	5	4	3 **(SDF)**	2.6 (NDB(L) DND)	2
ALT(HGT)	**1640**(1623)	**1320**(1303)	**1010**(993)	**880**(863)	**690**(673)



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**570**(553)	**570**(553)	**610**(593)
VM(C)OCA (OCH AAL)	**Total Area**	**970**(953)	**970**(953)	**1170**(1153)
	South of RWY 09/27	**540**(523)	**750**(733)	**1080**(1063)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420

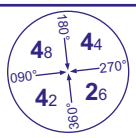
NOTE
1 Subject to ATC approval, when inbound to NDB(L) DND and within I-DDE DME 10, aircraft may descend to **3000**.
2 NDB(L) DND is 2.6NM from THR RWY 09 and is offset 230M north of extended RWY C/L.
3 FAT is offset 3° from RWY C/L.
4 The Category C Instrument Approach Procedure infringes the Perth ATZ at 1800FT above Perth aerodrome elevation. Pilots must notify ATC of their intention to conduct a Category C approach on first contact.
5 The eastern edge of the perth ATZ lies 9.5NM west of THR RWY 09. To prevent confliction with possible VFR traffic in the Perth ATZ, pilots should not extend the outbound leg of the base turn beyond the prescribed procedural distances.
6 EGD604 is 7NM east of Dundee ARP. If it appears likely that during the standard missed approach above, low performance aircraft will infringe EGD604 then such aircraft should turn right at I-DDE DME 4 onto track 136°M and climb to **2000**(1983) before turning right to return to NDB(L) DND at **3000**. Pilots should advise ATC on turning onto 136°M and expect to change to Leuchars Approach when instructed for radar assistance.

CHANGE (4/24): EGR612 WITHDRAWN.

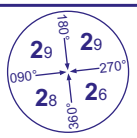
AERO INFO DATE 22 JAN 24 AD 2-EGPN-8-4

INSTRUMENT APPROACH CHART - ICAO

DUNDEE
RNP
RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) DND

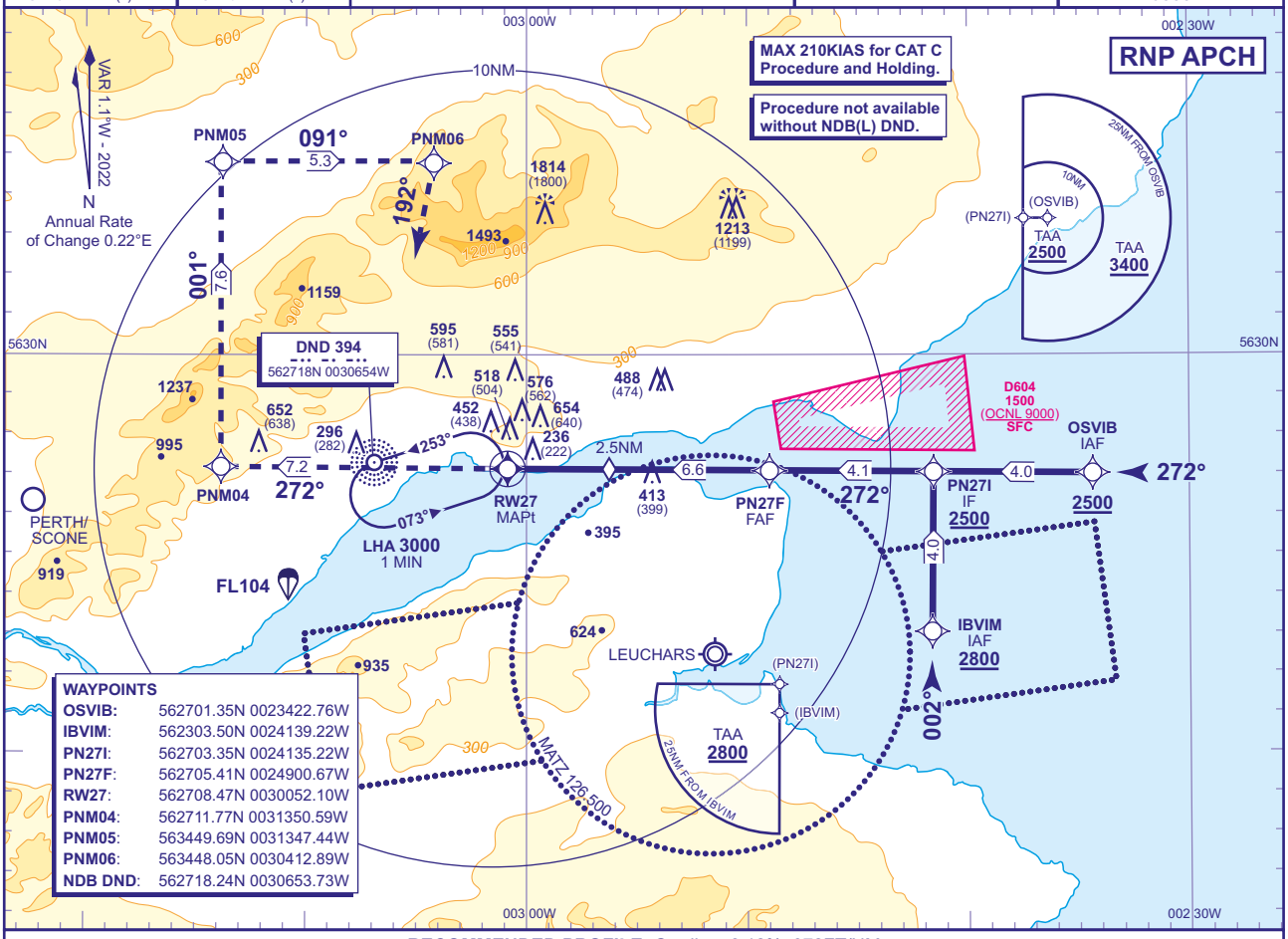


MSA 10NM NDB(L) DND

APP	122.905	DUNDEE APPROACH	
TWR	122.905	DUNDEE TOWER	
ATIS	119.330	DUNDEE INFORMATION	

AD ELEVATION	17
THR ELEVATION	14
OBSTACLE ELEVATION **1814 AMSL** (1800) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
3000



WAYPOINTS

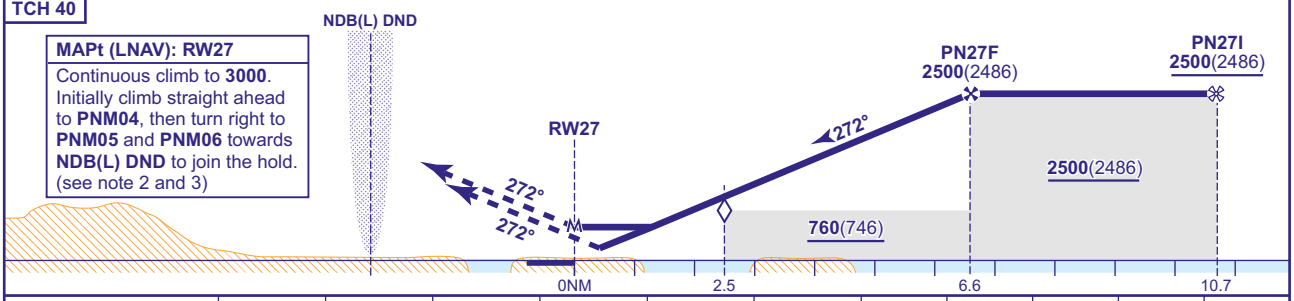
OSVIB:	562701.35N 0023422.76W
IBVIM:	562303.50N 0024139.22W
PN27I:	562703.35N 0024135.22W
PN27F:	562705.41N 0024900.67W
RW27:	562708.47N 0030052.10W
PNM04:	562711.77N 0031350.59W
PNM05:	563449.69N 0031347.44W
PNM06:	563448.05N 0030412.89W
NDB DND:	562718.24N 0030653.73W

RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to MAPt (RW27)	6	5	4	3	2.5 **(SDF)**	2
ALT(HGT)	**2280**(2266)	**1910**(1896)	**1540**(1526)	**1170**(1156)	**980**(966)	**800**(786)

TCH 40

MAPt (LNAV): RW27
Continuous climb to **3000**. Initially climb straight ahead to **PNM04**, then turn right to **PNM05** and **PNM06** towards **NDB(L) DND** to join the hold. (see note 2 and 3)



Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**LNAV**	**680**(666)	**680**(666)	**680**(666)
VM(C)OCA (OCH AAL)	**Total Area**	**970**(953)	**970**(953)	**1170**(1153)
	South of RWY 09/27	**690**(673)	**750**(733)	**1080**(1063)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE 1 NDB(L) DND is 3.3NM from THR RWY 27 and is offset 230M north of extended RWY C/L.
2 Missed approach MAX 185KIAS.
3 Missed approach reverts to conventional navigation to hold at NDB(L) DND.

CHANGE (4/24): EGR612 WITHDRAWN.

AERO INFO DATE 22 JAN 24

Instrument Approach Procedure Coding Tables

Dundee RNP RWY 09 - Instrument Approach Procedure via ABDED

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	ABDED	N	-	-	3400	210	562315.17N 0032356.23W	IAF
R09R	002	TF	MARIV	N	002° (000.5°)	RIGHT	3400	210	562714.67N 0032352.42W	IF / 11.01 NM
R09R	003	TF	PN09F	N	092° (090.4°)	-	2500	210	562712.52N 0031603.16W	FAF / 6.67 NM
R09R	004	TF	MA09	Y	092° (090.4°)	-	-	-	562709.42N 0030401.97W	MAPt (1NM before THR)
R09R	005	CF	PNM01	N	092° (090.5°)	LEFT	-	185	562706.77N 0025557.53W	-
R09R	006	TF	PNM02	N	040° (039.0°)	LEFT	-	185	563220.90N 0024816.72W	-
R09R	007	TF	PNM03	N	310° (309.1°)	LEFT	-	185	563529.62N 0025517.55W	-
R09R	008	TF	NDB DND	N	219° (218.1°)	-	3000	210	562718.24N 0030653.73W	HOLD

Dundee RNP RWY 09 - Instrument Approach Procedure via MARIV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09C	001	IF	MARIV	N	-	-	3400	210	562714.67N 0032352.42W	IAF / IF / 11.01 NM
R09C	002	TF	PN09F	N	092° (090.4°)	-	2500	210	562712.52N 0031603.16W	FAF / 6.67 NM
R09C	003	TF	MA09	Y	092° (090.4°)	-	-	-	562709.42N 0030401.97W	MAPt (1NM before THR)
R09C	004	CF	PNM01	N	092° (090.5°)	LEFT	-	185	562706.77N 0025557.53W	-
R09C	005	TF	PNM02	N	040° (039.0°)	LEFT	-	185	563220.90N 0024816.72W	-
R09C	006	TF	PNM03	N	310° (309.1°)	LEFT	-	185	563529.62N 0025517.55W	-
R09C	007	TF	NDB DND	N	219° (218.1°)	-	3000	210	562718.24N 0030653.73W	HOLD

Dundee RNP RWY 09 - Instrument Approach Procedure via IVGEX

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09L	001	IF	IVGEX	N	-	-	3600	210	563114.16N 0032349.25W	IAF
R09L	002	TF	MARIV	N	182° (180.4°)	LEFT	3400	210	562714.67N 0032352.42W	IF / 11.01 NM
R09L	003	TF	PN09F	N	092° (090.4°)	-	2500	210	562712.52N 0031603.16W	FAF / 6.67 NM
R09L	004	TF	MA09	Y	092° (090.4°)	-	-	-	562709.42N 0030401.97W	MAPt (1NM before THR)
R09L	005	CF	PNM01	N	092° (090.5°)	LEFT	-	185	562706.77N 0025557.53W	-
R09L	006	TF	PNM02	N	040° (039.0°)	LEFT	-	185	563220.90N 0024816.72W	-
R09L	007	TF	PNM03	N	310° (309.1°)	LEFT	-	185	563529.62N 0025517.55W	-
R09L	008	TF	NDB DND	N	219° (218.1°)	-	3000	210	562718.24N 0030653.73W	HOLD

CHANGE (1/24): MAG VAR UPDATED.
AERO INFO DATE 15 NOV 23

Instrument Approach Procedure Coding Tables

Dundee RNP RWY 27 - Instrument Approach Procedure via OSVIB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27C	001	IF	OSVIB	N	-	-	2500	210	562701.35N 0023422.76W	IAF
R27C	002	TF	PN27I	N	272° (270.5°)	-	2500	210	562703.35N 0024135.22W	IF / 10.7 NM
R27C	003	TF	PN27F	N	272° (270.5°)	-	2500	210	562705.41N 0024900.67W	FAF / 6.58 NM
R27C	004	TF	RW27	Y	272° (270.5°)	-	-	-	562708.47N 0030052.10W	MAPt
R27C	005	CF	PNM04	N	272° (270.5°)	RIGHT	-	185	562711.77N 0031350.59W	-
R27C	006	TF	PNM05	N	001° (000.2)°	RIGHT	-	185	563449.69N 0031347.44W	-
R27C	007	TF	PNM06	N	091° (090.2°)	RIGHT	-	185	563448.05N 0030412.89W	-
R27C	008	TF	NDB DND	N	192° (191.2°)	-	3000	210	562718.24N 0030653.73W	HOLD

Dundee RNP RWY 27 - Instrument Approach Procedure via IBVIM

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	IBVIM	N	-	-	2800	210	562303.50N 0024139.22W	IAF
R27L	002	TF	PN27I	N	002° (000.5°)	LEFT	2500	210	562703.35N 0024135.22W	IF / 10.7 NM
R27L	003	TF	PN27F	N	272° (270.5°)	-	2500	210	562705.41N 0024900.67W	FAF / 6.58 NM
R27L	004	TF	RW27	Y	272° (270.5°)	-	-	-	562708.47N 0030052.10W	MAPt
R27L	005	CF	PNM04	N	272° (270.5°)	RIGHT	-	185	562711.77N 0031350.59W	-
R27L	006	TF	PNM05	N	001° (000.2°)	RIGHT	-	185	563449.69N 0031347.44W	-
R27L	007	TF	PNM06	N	091° (090.2°)	RIGHT	-	185	563448.05N 0030412.89W	-
R27L	008	TF	NDB DND	N	192° (191.2°)	-	3000	210	562718.24N 0030653.73W	HOLD

CHANGE (1/24): MAG VAR UPDATED.
AERO INFO DATE 15 NOV 23

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EGTU — DUNKESWELL

EGTU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTU — DUNKESWELL

EGTU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 505136N Long: 0031405W
2	Direction and distance from city	14 NM NE of Exeter.
3	Elevation / Reference temperature / Mean Low Temperature	839 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	168 FT
5	Magnetic Variation / Annual Change	0.36°E (2027) / 0.18°E
6	AD Administration Address Telephone Telefax	AIR WESTWARD LTD Dunkeswell, Nr. Honiton, Devon, EX14 4LG. 01404-891643 (Aerodrome) 01404-891271 (Licensee) 01404-891465 (Aerodrome)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGTU AD 2.3 OPERATIONAL HOURS

1	AD Administration	0830-1700 (0730-1700) and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	0830-1700 (0730-1700) and by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. See also AD 2.20.

EGTU AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR F-34, AVGAS 100LL
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGTU AD 2.5 PASSENGER FACILITIES

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EGTU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1
2	Rescue equipment	Limited equipment available on site suitable for the removal of disabled aircraft type using the aerodrome.

3	Capability for removal of disabled aircraft	
4	Remarks	

EGTU AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGTU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGTU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Two WDIs: 505143.71N 0031410.11W; 505150.83N 0031338.95W (LGTD).

EGTU AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTU1024) 04/APPROACH 22/ TAKE-OFF	EARTH BANK	505123.07N 0031425.54W	844 FT	0 FT	No	
(EGTU1021) 04/APPROACH 22/ TAKE-OFF	ROAD	505123.05N 0031425.59W	857 FT	15 FT	No	
(EGTU1027) 04/APPROACH 22/ TAKE-OFF	EARTH BANK	505122.57N 0031425.10W	844 FT	0 FT	No	
(EGTU1026) 04/APPROACH 22/ TAKE-OFF	ROAD	505122.54N 0031425.13W	857 FT	15 FT	No	
(EGTU1025) 04/APPROACH 22/ TAKE-OFF	MARKER	505122.20N 0031425.50W	849 FT	6 FT	No	
(EGTU1030) 04/APPROACH 22/ TAKE-OFF	EARTH BANK	505122.09N 0031424.21W	844 FT	0 FT	No	
(EGTU1029) 04/APPROACH 22/ TAKE-OFF	ROAD	505122.06N 0031424.24W	856 FT	15 FT	No	
(EGTU1033) 04/APPROACH 22/ TAKE-OFF	EARTH BANK	505121.59N 0031423.27W	843 FT	0 FT	No	
(EGTU1032) 04/APPROACH 22/ TAKE-OFF	ROAD	505121.55N 0031423.30W	856 FT	15 FT	No	
(EGTU1042) 04/APPROACH 22/ TAKE-OFF	EARTH BANK	505121.43N 0031421.83W	841 FT	0 FT	No	
(EGTU1043) 04/APPROACH 22/ TAKE-OFF	ROAD	505121.40N 0031421.82W	854 FT	15 FT	No	
(EGTU1031) 04/APPROACH 22/ TAKE-OFF	MARKER	505121.31N 0031423.87W	848 FT	6 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTU1004)	TREE	505201.73N 0031643.59W	950 FT	62 FT	No	
(EGTU1003)	TREE	505157.82N 0031651.67W	978 FT	79 FT	No	
(EGTU1002)	TREE	505127.36N 0031651.34W	965 FT	42 FT	No	
(EGTU1194)	TREE	505110.60N 0031501.66W	943 FT	61 FT	No	
(EGTU1082)	MAST	505105.33N 0031412.33W	999 FT	165 FT	Yes Solid Red	
(EGTU1117)	WATER TOWER	505044.38N 0031351.06W	973 FT	87 FT	No	
(EGTU1112)	TREE	505038.74N 0031352.81W	952 FT	63 FT	No	

EGTU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGTU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
04	041.12°	967 x 45 M	RWY surface: Asphalt	505124.05N 0031421.53W 168.0 FT	THR 838.7 FT	
22	221.13°	967 x 45 M	RWY surface: Asphalt	505147.63N 0031349.00W 168.0 FT	THR 826.2 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
		1087 x 101 M				RWY 04
		1087 x 101 M				RWY 22

EGTU AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	**2**	**3**	**4**	**5**	**6**
04	967 M	967 M	967 M	967 M	
22	967 M	967 M	967 M	967 M	

EGTU AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
04		Light intensity low Green wingbars				Light intensity low	Red wingbars Light intensity low		
22		Light intensity low Green wingbars				Light intensity low	Red wingbars Light intensity low		

EGTU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 505151.53N 0031338.30W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGTU AD 2.16 HELICOPTER LANDING AREA

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EGTU AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
DUNKESWELL ATZ A circle, 2 NM radius, centred at 505136N 0031405W on longest notified runway (04/ 22)	Upper limit: 2000 FT AGL Lower limit: SFC	G	DUNKESWELL RADIO English			

EGTU AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	DUNKESWELL RADIO	123.480 A/G frequency.			0830-1700 (0730-1700) and by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGTU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGTU AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome is not available at night for flights required to use a licensed aerodrome.
b) Aerodrome is not available at weekends and PH for helicopter training other than normal arrival/departures, due to free-fall parachuting.
c) Any Dunkeswell outbound air traffic are to contact Exeter Radar/Approach as soon as possible after departure.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Glider launching takes place at North Hill (505107N 0031639W) West-south-west of Dunkeswell.
b) Free-fall parachuting from up to FL 150 normally during daylight hours (ENR 5-5-3 refers).
c) Use is made of the grass areas outside the runway strips for sheep grazing.
d) Outside the Northeast boundary of the aerodrome, and separated from it by a public road, is a large paved area. It is not part of the aerodrome. Pilots should positively identify the displaced landing threshold to Runway 22 before committing the aircraft to final approach.
e) The old perimeter tracks are unsuitable for use as a taxiway. Pilots are cautioned to only use established taxiways/runways for taxiing.
f) Pilots should note the existence of three radio masts erected by the MOD within the aerodrome circuit. They do not constitute a hazard but pilots should be aware of their presence.

- South side (Lgtd), 1007 FT AMSL, 505105N 0031412W;
- North side, 79 FT AGL, 505225N 0031349W;
- South of north side (Lgtd), 951 FT AMSL, 505206N 0031359W.

g) High ground southwest and within 2500 M radius of ARP 896 FT AMSL 505045N 0031438W.

5 HELICOPTER OPERATIONS

a) Helicopter pilots wishing to land at Dunkeswell should be aware of the designated area on the grass triangle in line with Runway 22 numbers.
b) Pilots to call on RTF before starting rotors.
c) No rotors are to be turning in the ATZ when parachuting is in progress.

6 USE OF RUNWAYS

Runway 17/35 is not available to aircraft that require a licensed runway due to an obstacle within the Obstacle Limitation Surfaces.

7 TRAINING

Not applicable.

EGTU AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots are requested not to overfly Dunkeswell Village and local housing estate on eastern side of aerodrome below 500 FT AGL.

EGTU AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit directions: Runway 04 - RH; Runway 22 - LH. Circuit height: 800 FT.
b) No overhead joins due to parachuting.
c) No straight in approaches.
d) No orbits in the circuit or on final approach, ie extend downwind or go around.
e) Aircraft are to join downwind or base.

EGTU AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGTU AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTU-2-1

EGTU AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

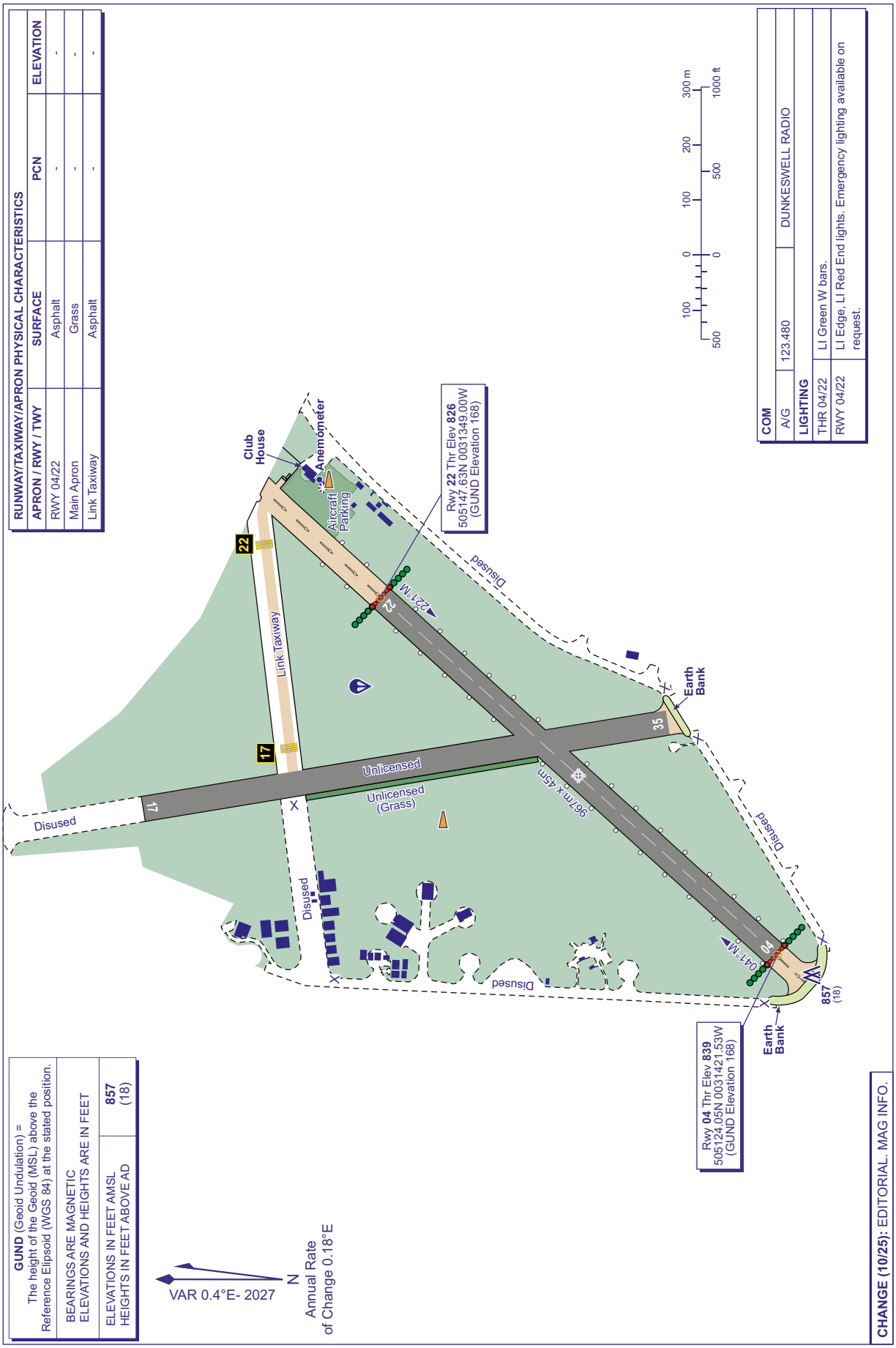
Not applicable

DUNKESWELL EGTU

AD ELEV 839FT

ARP 505136N 0031405W

AERODROME CHART - ICAO



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 04/22	Asphalt	-	-
Main Apron	Grass	-	-
Link Taxiway	Asphalt	-	-

COM		
A/G	123.480	DUNKESWELL RADIO
LIGHTING		
THR 04/22		Ll Green W bars.
RWY 04/22		Ll Edge, Ll Red End lights. Emergency lighting available on request.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL **857**
HEIGHTS IN FEET ABOVE AD (18)

VAR 0.4°E- 2027

N

Annual Rate of Change 0.18°E

CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 21 JUL 25

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EGSU — DUXFORD

EGSU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSU — DUXFORD

EGSU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 520526N Long: 0000753E Mid point of Runway 06/24 paved
2	Direction and distance from city	8 NM S of Cambridge.
3	Elevation / Reference temperature / Mean Low Temperature	126 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	1.38°E (2027) / 0.17°E
6	AD Administration Address Telephone	IMPERIAL WAR MUSEUM. Duxford Aerodrome, Cambridgeshire, CB22 4QR. 01223-833376 (ATC) 01223-835000 Ext 7236 (Switchboard)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGSU AD 2.3 OPERATIONAL HOURS

1	AD Administration	1000-1600 (0900-1700).
2	Customs and immigration	By arrangement, minimum notice periods apply.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours, self-briefing facilities.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As AD hours, self-briefing facilities.
7	ATS	As AD Hours. See also AD 2.18.
8	Fuelling	1000-1530 (0900-1700). By arrangement outside these hours.
9	Handling	As AD hours and by arrangement.
10	Security	H24 H24 Security, CCTV in operation.
11	De-icing	
12	Remarks	This aerodrome is strictly PPR by telephone at all times. Aerodrome may close during adverse weather conditions

EGSU AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL S80, S100, W80, W100, 15W/50
3	Fuelling facilities/capacity	Fuel bowser service.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited hangarage available by arrangement only.
6	Repair facilities for visiting aircraft	Limited services available through: ARC, Building 425, Duxford Airfield, Duxford, Cambridge, CB22 4QR.
7	Remarks	

EGSU AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity.
2	Restaurants	On Aerodrome.
3	Transportation	Local taxi service, Whittlesford station 2 NM away.
4	Medical facilities	First aid provided by Duxford RFFS during operational hours.
5	Bank and Post Office	

6	Tourist Office	
7	Remarks	

EGSU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFFS Category 3 to 6 available with 48 hour notice, subject to availability by prior arrangement with ATC.
2	Rescue equipment	Appropriate up to RFF Category 6.
3	Capability for removal of disabled aircraft	In the event of an incident, light aircraft can be removed using airfield resources. Large aircraft can be removed using an external contractor in conjunction with aircraft operator.
4	Remarks	

EGSU AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGSU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGSU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 06R/24L: touchdown point, aiming point
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Illuminated windsleeve: 520526.37N, 0000804.52E Windsleeve: 520533.88N, 0000823.93E Windsleeve: 520512.81N, 0000729.20E

EGSU AD 2.10 AERODROME OBSTACLES

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EGSU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Phone Duxford ATC.
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	Form 214/215, TAF/METAR, Internet Access.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	DUXFORD
10	Additional information (limitation of service, etc.)	Local unofficial observations provided on request during AD operational hours.

EGSU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06L	058.02°	882 x 25 M	RWY surface: Grass	520521.46N 0000727.07E 150.6 FT	THR 117.3 FT	
24R	238.03°	882 x 25 M	RWY surface: Grass	520536.57N 0000806.36E 150.6 FT	THR 103.6 FT	
06R	058.02°	1448 x 32 M	RWY surface: Asphalt PCN 27/F/C/W/T	520513.47N 0000721.16E 150.6 FT	THR 124.1 FT	
24L	238.04°	1448 x 32 M	RWY surface: Asphalt PCN 27/F/C/W/T	520536.61N 0000821.34E 150.6 FT	THR 105.9 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		60 x 80 M				RWY 06L
		60 x 80 M				RWY 24R Threshold displaced by 150 M to provide 1:25 slope over earth bank and to provide RESA.
		60 x 80 M				RWY 06R
		60 x 80 M				RWY 24L Threshold displaced by 150 M to provide 1:25 slope over earth bank and to provide RESA.

EGSU AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06R	1199 M	1199 M	1199 M	1199 M	
24L	1199 M	1199 M	1199 M	1199 M	
06L	880 M	880 M	880 M	880 M	
24R	880 M	880 M	880 M	880 M	

EGSU AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGSU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 520526.47N, 0000804.92E.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGSU AD 2.16 HELICOPTER LANDING AREA

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EGSU AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
DUXFORD ATZ A circle, 2 NM radius, centred at 520526N 0000753E on longest notified runway (06/ 24)	Upper limit: 2000 FT AGL Lower limit: SFC	G	DUXFORD INFORMATION English	6000 FT		Aircraft intending to fly in the ATZ must be equipped with two-way RTF and be able to communicate with Duxford. In exceptional circumstances, aircraft without two-way RTF may be given prior approval and information to permit them to fly safely in the ATZ. Pilots are reminded that unusual events, historic aircraft displays and formation flying are frequent activities at Duxford and are urged to make their initial RTF call to Duxford Information at least 8 NM from the ATZ Boundary.

EGSU AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	DUXFORD INFORMATION	122.080 DOC 10 NM/3,000 FT.			1000-1600 (0900-1700).	ATZ hours coincident with AFIS hours.
OTHER	DUXFORD FIRE	121.605			Available when Fire vehicle attending aircraft on the ground in an emergency.	
	DUXFORD RADIO	122.080 A/G frequency.			As directed by ATC.	

EGSU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGSU AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) First 50 M of paved Runway 24 is sterile and is marked with yellow chevrons.
b) Visiting aircraft must be insured in accordance with EU Regulation (EC) 785/2004. Art 7. Policies must include (where applicable) passenger legal liability insurance. Policies must also include the AV52E endorsement, proof of which may be requested on landing.
c) Although Duxford has parallel runways they are not available for simultaneous use and are to be treated as one runway.
d) Special rules are in force for special events. Relevant AICs give details.
e) The aerodrome is only open to visitors during specified hours. Traffic operating outside the published opening times is private and Duxford based.
f) Available for aircraft requiring to use a licensed aerodrome.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Pilots of aircraft who are required to use a licensed aerodrome are cautioned that the taxiway strips are not suitable for use by aircraft whose wingspan exceeds 40 M. Other aircraft should use the taxiways with extreme caution due to the reduced obstacle clearance.
b) Fighter and high performance aircraft regularly carry out non-standard manoeuvres and use NATO style joining procedures. Visiting pilots must call in plenty of time before entering ATZ.
c) Pilots should not overfly the gas venting station southeast of the aerodrome below 2700 FT.
d) Caution: Linton Zoo has birds of prey flying up to 2500 FT.
e) Earth bank - mid-point *520537.00N 0000829.00E, 134 FT AMSL.
f) When operating to the north of Duxford outside of the Duxford ATZ, it is strongly advised that communication is established with Cambridge APP 120.965 and note the Cambridge 23/05 Instrument Final Approach.
g) Caution should be exercised in regards to Fowlmere Airfield that lies 3 NM to the west of Duxford Airfield. Fowlmere CCT enters the north-western area of the Duxford ATZ. Please visit https://www.iwm.org.uk/visits/iwm-duxford/pilots for information.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

a) All circuit training strictly PPR.
b) Display practices must be booked in advance with Duxford ATC 01223-833376.

EGSU AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots should avoid overflying all local villages especially Duxford, Thriplow, Whittlesford and Fowlmere and the adjacent bird sanctuary.

EGSU AD 2.22 FLIGHT PROCEDURES

a) There are no overhead, deadside or crosswind joins at Duxford to assist in deconfliction of circuit patterns.
b) Circuit patterns are variable with no dead-side. It is therefore essential that pilots obtain a briefing from Duxford before departure whether inbound or outbound.
c) Traffic departing Runway 06 continue straight ahead for 2 NM before turning (BP Roundabout). Traffic joining for Runway 24 LHC; join downwind and position for 2 NM final (BP Roundabout). Traffic joining for RWY 06 RHC join downwind. Traffic departing RWY 24 LHC **no right turn** until passed Royston.

EGSU AD 2.23 ADDITIONAL INFORMATION

a) Please visit https://www.iwm.org.uk/visits/iwm-duxford/pilots for additional museum, airfield information and links to the airfield fees and aerodrome manuals.

EGSU AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSU-2-1

EGSU AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

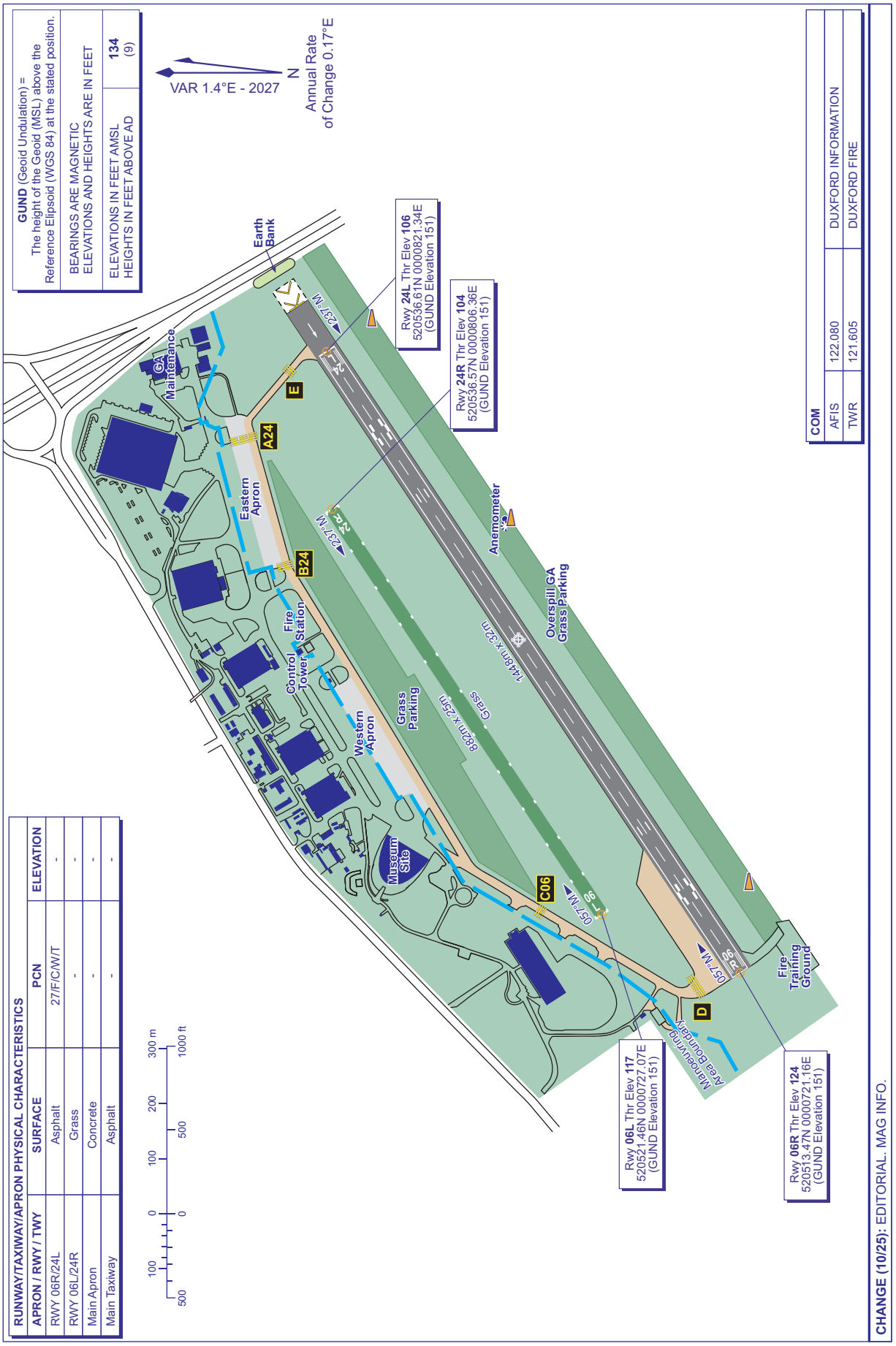
Not applicable

DUXFORD EGSU

AERODROME CHART - ICAO

ARP 520526N 0000753E

AD ELEV 126FT



AERO INFO DATE 22 JUL 25

AD 2-EGSU-2-1

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EGSR — EARLS COLNE

EGSR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSR — EARLS COLNE

EGSR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515452N Long: 0004057E Mid point of Runway 06/24
2	Direction and distance from city	3 NM SE of Halstead.
3	Elevation / Reference temperature / Mean Low Temperature	227 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	1.57°E (2027) / 0.17°E
6	AD Administration Address Telephone	BULLDOG AVIATION LTD. Earls Colne Airfield, Earls Colne, Colchester, Essex, CO6 2NS. 01787-223943
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGSR AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-SS (0900-1800).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	0900-SS (0800-1700).
8	Fuelling	By arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Aerodrome strictly PPR by telephone. Applies to all visiting aircraft and helicopters, Tel: 01787-223943.

EGSR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL W80, W100, 100, 80.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGSR AD 2.5 PASSENGER FACILITIES

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EGSR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGSR AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGSR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGSR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGSR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Trees	515458.73N 0004150.85E	322 FT		No	
	Pylon	515437.46N 0004209.26E	381 FT		No	
	Pylon	515429.31N 0004155.84E	391 FT		No	
	Pylon	515420.76N 0004141.93E	390 FT		No	
	Pylon	515412.21N 0004127.86E	408 FT		No	

EGSR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGSR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06	060.28°	939 x 30 M	RWY surface: Asphalt and grass	515444.03N 0004041.25E	THR 227.0 FT	
24	240.29°	939 x 30 M	RWY surface: Asphalt and grass	515456.60N 0004116.54E	THR 223.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 06 Threshold displaced by 89 M. Runway has a 778 x 10 M Asphalt insert.
						RWY 24 Threshold displaced by 62 M. Runway has a 778 x 10 M Asphalt insert.

EGSR AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	799 M	799 M	799 M	778 M	
24	799 M	799 M	799 M	778 M	

EGSR AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06		Light intensity low Green wingbars				White Light intensity low	Red		
24		Light intensity low Green wingbars	APAPI Left/3.5° 30 FT 62 M			White Light intensity low	Red		

EGSR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	

4	Secondary power supply/switch-over time	
5	Remarks	Helimed helipad, green edge lights.

EGSR AD 2.16 HELICOPTER LANDING AREA

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EGSR AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
EARLS COLNE ATZ A circle, 2 NM radius, centred at 515452N 0004057E on longest notified runway (06/ 24)	Upper limit: 2000 FT AGL Lower limit: SFC	G	EARLS COLNE RADIO English	6000 FT		

EGSR AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	EARLS COLNE RADIO	122.430 A/G frequency.			0900-SS (0800-1700).	ATZ hours coincident with A/G hours.

EGSR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGSR AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Pilots are to obtain a brief before departure inclusive of Noise abatement procedures currently in force.
b) All aircraft using this aerodrome and its facilities are required to have third party liability insurance cover in the sum of at least £1,000,000.
c) Non-three axis microlights (i.e. flex-wings) not permitted.
d) Autogyros not permitted.
e) Hot air balloons not permitted.
f) Public platform cost share flights not permitted.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) At the entry to the parking area, the distance between taxiway centre-line and parked aircraft is only 8 M. Visiting pilots should obtain a briefing on taxiway procedures and taxi with extreme caution.
b) Power lines cross Runway 06 approach. Pilots should not land before the displaced threshold.
c) Taxiway strip is not provided along the taxiway or in the apron area. Pilots should follow the yellow taxiway centre-lines where provided. Pilots should obtain a briefing on taxiway procedures and taxi with extreme caution.
d) The runway designators for both Runways 06 and 24 are not positioned in the centre of each runway. They are positioned in the centre of the grass section of each runway.

e) Pilots may experience windshear on either runway.
f) Caution required when taxiing in the vicinity of manoeuvring helicopters due to down-wash.
g) Helicopter circuit and approach pattern different to fixed wing circuit and approach pattern.
h) Warbird operations take place on a daily basis.
i) Student pilot training takes place on a daily basis.
j) Aerodrome Obstacles:

i. Control Tower 24 FT AAL.
ii. Hangar 25 FT AAL.
iii. Power lines, 251 FT AMSL, 270°T 0.2 NM from ARP running NW/SE.
iv. 06/Approach 24/Take-off – Vehicles on road 240 FT AMSL, 1040 M beyond start of TORA.

5 HELICOPTER OPERATIONS

a) Helicopter pilots should follow preferred rotary arrival and departure procedures.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

Not applicable.

EGSR AD 2.21 NOISE ABATEMENT PROCEDURES

a) Noise abatement procedures in force on Runway 06/24 for departures, circuits and landing.
b) Full details can be found at https://www.anglianflightcentres.co.uk.

EGSR AD 2.22 FLIGHT PROCEDURES

a) Circuit directions: Runway 06 - RH; Runway 24 - LH.

EGSR AD 2.23 ADDITIONAL INFORMATION

a) Drone flight authorisation requests must be made via email (info@flyafc.co.uk). 72 hours prior notice is required.

EGSR AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSR-2-1

EGSR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 515452N 0004057E

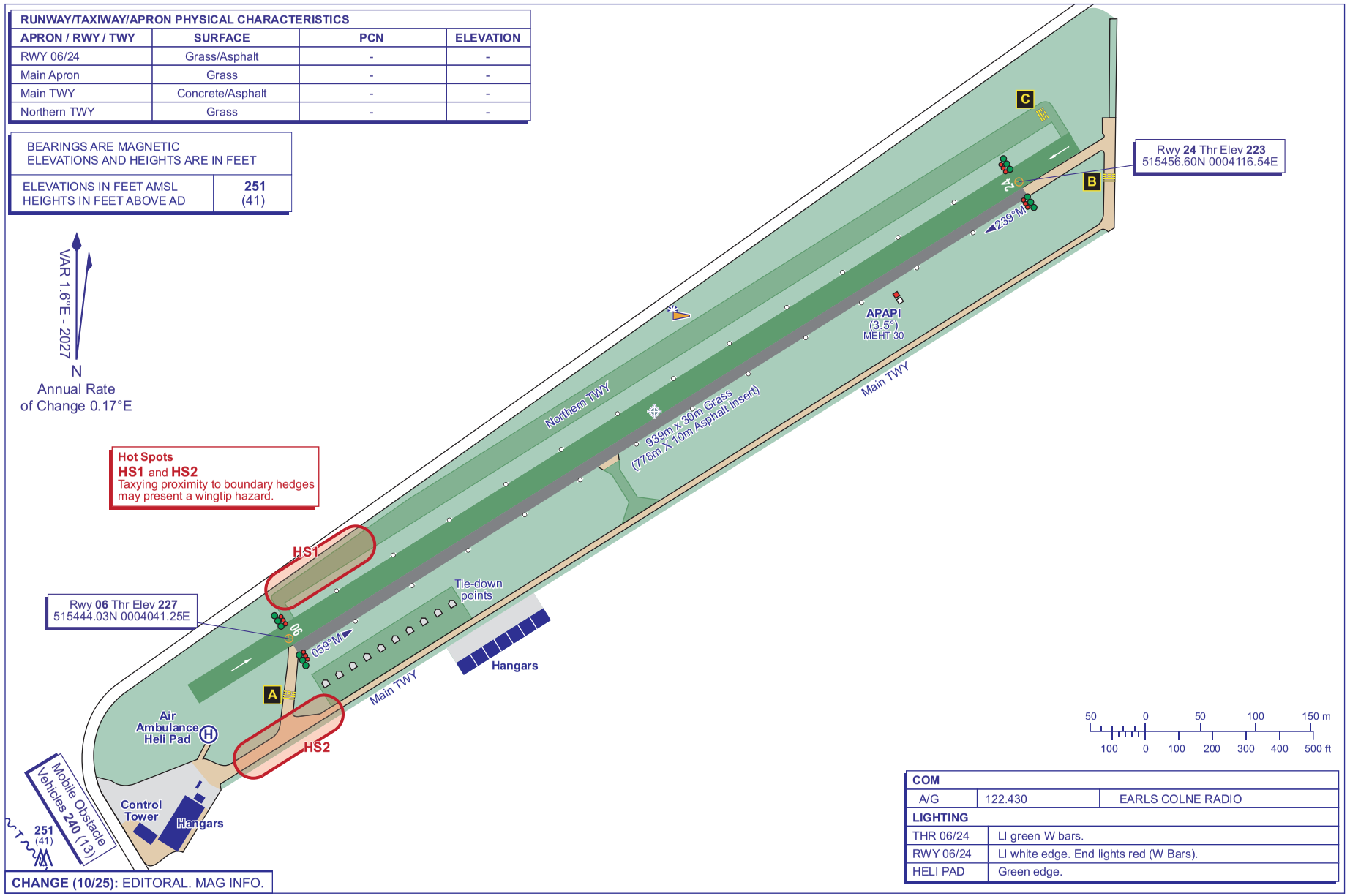
AD ELEV 227FT

EARLS COLNE
EGSR

AERO INFO DATE 21 JUL 25

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**PCN**	**ELEVATION**
RWY 06/24	Grass/Asphalt	-	-
Main Apron	Grass	-	-
Main TWY	Concrete/Asphalt	-	-
Northern TWY	Grass	-	-

BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**251** (41)



COM		
A/G	122.430	EARLS COLNE RADIO
LIGHTING		
THR 06/24	LI green W bars.	
RWY 06/24	LI white edge. End lights red (W Bars).	
HELI PAD	Green edge.	

CHANGE (10/25): EDITORAL. MAG INFO.

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EGNX — EAST MIDLANDS

EGNX AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNX — EAST MIDLANDS

EGNX AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 524952N Long: 0011940W Mid point of Runway 09/27.
2	Direction and distance from city	7 NM SE of Derby.
3	Elevation / Reference temperature / Mean Low Temperature	306 FT / 21 °C / -
4	Geoid undulation at AD ELEV PSN	161 FT
5	Magnetic Variation / Annual Change	0.02°W (2022) / 0.20°E
6	AD Administration Address Telephone Telefax	EAST MIDLANDS INTERNATIONAL AIRPORT LTD. Pathfinder House, East Midlands Airport, Castle Donington, Derby DE74 2SA. 01332-850393 0808-1697032 01332-850393 (General) 0906-851 7567 (Airport MET Information)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGNX AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	Self-briefing
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24 See also AD 2.18
8	Fuelling	Winter: H24 (AVTUR JET A-1). 0800-1800 daily (AVGAS 100LL). Summer: H24 (AVTUR JET A-1). 0700-1700 daily (AVGAS 100LL).
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	AVGAS 100LL available at other times by arrangement with Donington Aviation, Tel: 01332-811004 between 0800-1800 (winter) and 0700-1700 (summer)

EGNX AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	A full range of cargo handling equipment is available to service aircraft up to 747-400 and An-124 aircraft. Specialist handling equipment usually available at short notice through cargo handling agents. Tel: 01332-852894, Fax: 01332-853202. Nearest railway siding, Castle Donington 2 NM
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL 100, W80, W100. Available from Donington Aviation 01332-812499 / 07462-812831.
3	Fuelling facilities/capacity	Available from Air BP, Tel: 01332-810459, Fax: 01332-850733; Texaco/ Valero, Tel: 01332-812156/814496, Fax: 01332-810581.
4	De-icing facilities	Available by arrangement with handling agents.
5	Hangar space for visiting aircraft	Space is limited and is available upon prior request from Donington Aviation, Tel: 01332-812499; e-mail: handling@doningtonaviation.co.uk
6	Repair facilities for visiting aircraft	By arrangement.

7	Remarks	Full handling services are available from the following companies: Advantage Flight Support Ltd, Tel: 01332-561641; 07876-395887 (Mobile); email: info@fly-advantage.com;Twitter @AFSL_FBO; VHF 131.665 (General & Executive Aviation). Aviation Solutions, Tel: 01332-853510; Email: info@aviation-solutions.co.uk (Cargo only). DHL Aviation, Tel: 01332-857000 Main Reception; Ad-Hoc charters via Aviation Solutions (Cargo only). Donington Aviation, Tel: 01332-812499 / 07462-812831; e-mail: handling@doningtonaviation.co.uk (General & Executive Aviation with Hangarage). Signature Flight Support, Tel: +44 (33) 0027 1263; Fax: 01332-811139; Email@ ema@signatureflight.co.uk (General & Executive Aviation). Swissport, Tel: 01332-812924; Fax: 01332-853584 (Passengers and Cargo).

EGNX AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the vicinity and on the airport.
2	Restaurants	H24 vending facilities, shops, restaurants, and bar.
3	Transportation	Range of long distance coach services, local bus service and taxis. Nearest railway station, East Midlands Parkway 5 miles (regular shuttle buses).
4	Medical facilities	Limited first aid.
5	Bank and Post Office	The ChangeGroup.
6	Tourist Office	
7	Remarks	

EGNX AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8 on Remission. RFF Category 9 available by arrangement. Minimum 12 hours notice required. Requests should be directed to the Aerodrome Control Room on 01332-852973.
2	Rescue equipment	Details available on request from Aerodrome.
3	Capability for removal of disabled aircraft	The registered owner or aircraft operator retains complete responsibility for the removal of the disabled aircraft. All Airline operators at EMA are expected to have aircraft recovery plans and should liaise with the Aerodrome Coordinator. The Airfield Operations Duty Manager (AODM) is the Aerodrome Coordinator for disabled aircraft removal operations. The AODM will coordinate the aircraft recovery operation and should be contacted on 07542-383390 by the registered owner or aircraft operator before any arrangements are made.
4	Remarks	

EGNX AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Snow state and clearance programme Tel: 01332-852852, Ext 2973.

EGNX AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	CENTRAL APRON Surface: Concrete PCN 63/R/D/X/U CENTRAL-WEST APRON Surface: Concrete PCN 74/R/C/W/T EAST APRON Surface: Concrete PCN 63/R/D/X/U WEST APRON Surface: Concrete PCN 78/R/C/W/T
2	Taxiway width, surface and strength	Taxiway A: 23 M Surface: Asphalt PCN 66/F/C/W/U Taxiway TAXILANE B: 23 M Surface: Concrete PCN 78/R/C/W/T Taxiway F: 23 M Surface: Concrete PCN 78/R/C/W/T Taxiway G: 23 M Surface: Asphalt PCN 66/F/C/W/U Taxiway H: 23 M Surface: Asphalt PCN 66/F/C/W/U Taxiway TAXILANE J: 23 M Surface: Concrete PCN 78/R/C/W/T Taxiway K: 15 M Surface: Asphalt PCN 32/F/D/X/T Taxiway M: 23 M Surface: Asphalt PCN 66/F/C/W/U Taxiway S: 23 M Surface: Asphalt PCN 66/F/C/W/U Taxiway TAXILANE C: 23 M Surface: Concrete PCN 63/R/D/X/U Taxiway TAXILANE CA: 23 M Surface: Concrete PCN 63/R/D/X/U Taxiway TAXILANE D: 23 M Surface: Concrete PCN 63/R/D/X/U Taxiway TAXILANE N: 23 M Surface: Concrete PCN 74/R/C/W/T

		Taxiway TAXILANE Q: 23 M Surface: Concrete PCN 63/R/D/X/U Taxiway TAXILANE R: 23 M Surface: Concrete PCN 63/R/D/X/U Taxiway TAXILANE T: 23 M Surface: Concrete PCN 63/R/D/X/U Taxiway TAXILANE U: 23 M Surface: Concrete PCN 63/R/D/X/U Taxiway TAXILANE V: 23 M Surface: Concrete and asphalt PCN 63/R/D/X/U Taxiway W: 23 M Surface: Asphalt PCN 66/F/C/W/U
3	Altimeter checkpoint location and elevation	Central Apron 289 FT, East Apron 272 FT and West Apron 289 FT.
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Ground Movement/Parking/Docking Chart.
6	Remarks	Taxiway J – Code E leading off Taxiway A on to the West Apron. From junction with Taxiway B, Taxiway reduces (south) to Code D Taxilane. Taxiway M – Due to turn constraints, aircraft with wingspan in excess of 45 M must exercise caution when using this routing, this Taxiway is not available for MD-11 or Code E aircraft. Reduces to Code C Taxiway south of intersection with Taxiway A. Delta Taxilane between D and V holding points widens to a bespoke maximum wingspan of 68.4 M. Taxiway V - Bespoke limited to maximum span of 68.4 M and maximum length of 76.25 M.

EGNX AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 21, 23, 24 and 70R are self-manoeuvring, with all other stands being a nose-in/push-back configuration. All apron stands are provided with centreline and nose/nosewheel stop position markings. Marshalling guidance will be given to all pilots to indicate the stop position. ALL aircraft parking on the aprons may only proceed onto stand under the guidance of a marshaller. If no marshal guidance is available, aircraft MUST NOT enter the stand and MUST hold on the taxi lane until a marshaller is present.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: Runway designation, landing thresholds, edge, centre-line, aiming point, touch down zone. Runway light(s): Runway guard lights at all taxiway intersections. Taxiway marking aid(s): Taxi holding positions. Enhanced taxiway centre-line markings are provided at each runway/taxiway intersection that, on approaching the runway, denote the proximity of the runway holding positions closest to the runway. Taxiway light(s): Green centre-line with blue edge lights on corners. Turn-offs-amber and green centre-line with blue edge lights. Taxiways Charlie, Charlie Alpha, Tango and Delta are not equipped with taxiway centre-line lighting.
3	Stop bars and runway guard lights (if any)	Multiple stopbars with red HI lighting. Runway stop bars are in operation H24.

4	Other runway protection measures	
5	Remarks	3 X WDI: 524957.60N 0011853.79W (LGTD), 524955.93N 0012026.69W (LGTD) and 524958.07N 0011936.57W.

EGNX AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNX2986) 27/APPROACH 09/ TAKE-OFF	FENCE	524955.32N 0011805.21W	287 FT	8 FT	No	
(EGNX3001) 27/APPROACH 09/ TAKE-OFF	LLZ 09 OBS R	524952.54N 0011807.19W	284 FT	8 FT	Yes Red	
(EGNX3014) 09/APPROACH 27/ TAKE-OFF	LLZ 27 OBS LT L	524948.97N 0012123.09W	322 FT	9 FT	Yes Red	
(EGNX3377) 09/APPROACH 27/ TAKE-OFF	CCTV	524947.05N 0012151.53W	357 FT	31 FT	No	
(EGNX2904) 09/APPROACH 27/ TAKE-OFF	RESERVOIR	524945.95N 0012139.99W	337 FT	4 FT	No	
(EGNX2905) 09/APPROACH 27/ TAKE-OFF	RESERVOIR	524945.88N 0012140.94W	338 FT	2 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNX2752) RATCLIFFE-ON-SOAR	CHIMNEY	525200.90N 0011524.09W	758 FT	643 FT	Yes Red	
EGNX_2025_TE13	CRANE	525150N 0012058W	328 FT	233 FT	Yes Red	Up to 2X cranes.
EGNX_2024_TE43	CRANE	525031N 0012126W	361 FT	65 FT	No	Up to 2X cranes.
EGNX_2025_TE41	TRANSPORTERS	525025N 0011803W	246 FT	102 FT	No	Container transporters.
EGNX_2025_TE39	TRANSPORTERS	525018N 0011757W	357 FT	209 FT	No	Container transporters.
EGNX_2025_TE47	CRANE	525013N 0012124W	351 FT	66 FT	Yes Red	
EGNX_2025_TE11	CRANE	525009N 0012123W	358 FT	69 FT	Yes Red	
(EGNX1212)	FENCE	524956.10N 0012033.25W	320 FT	10 FT	No	
(EGNX3135)	ATC AERIAL	524934.81N 0011955.29W	468 FT	180 FT	Yes Red	
(EGNX2618)	FLAG POLE	524821.79N 0012359.78W	503 FT	93 FT	No	
(EGNX2714)	MAST	524815.09N 0013120.26W	651 FT	165 FT	No	
UK28564940F	PYLON	524742.77N 0010350.46W	511 FT	130 FT	No	
UK18639337F	WIND TURBINE	524453.25N 0012637.03W	784 FT	286 FT	No	
(EGNX2567)	MAST	524230.34N 0011658.54W	1037 FT	273 FT	No	

EGNX AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24

3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	Standby systems available, including satellite weather pictures.
9	ATS units provided with information	EAST MIDLANDS
10	Additional information (limitation of service, etc.)	

EGNX AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
09	088.26°	2894 x 45 M	RWY surface: Asphalt. ungrooved PFC. PCN 87/F/C/W/T SWY surface: Asphalt. ungrooved PFC. PCN 87/F/C/W/T	524950.36N 0012048.86W 160.7 FT	THR 305.9 FT TDZ 306.3 FT	
27	268.29°	2894 x 45 M	RWY surface: Asphalt. ungrooved PFC. PCN 87/F/C/W/T SWY surface: Asphalt. ungrooved PFC. PCN 87/F/C/W/T	524952.88N 0011830.94W 160.6 FT	THR 281.6 FT TDZ 286.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
30 x 45 M	310 x 150 M	3074 x 280 M	240 x 90 M -			RWY 09 Threshold displaced by 180 M. OFZ: Yes. Runway 09/27 has shoulders 7.5 M each side of the runway giving a total paved width of 60 M. 30 M blast strips at both runway ends, same PCN as runway. The runway crossfall is restricted to 1.25% along it's entire length.
30 x 45 M	459 x 150 M	3074 x 280 M	240 x 90 M -			RWY 27 Threshold displaced by 131 M. OFZ: Yes. Runway 09/27 has shoulders 7.5 M each side of the runway giving a total paved width of 60 M. 30 M blast strips at both runway ends, same PCN as runway. The runway crossfall is restricted to 1.25% along it's entire length.

EGNX AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	2894 M	3205 M	2924 M	2714 M	
27	2894 M	3353 M	2924 M	2764 M	
09	2714 M	3024 M	2744 M		Take-off from abeam Holding Point H1.
09	2080 M	2391 M	2110 M		Take-off from abeam Holding Point M1.
09	1317 M	1627 M	1347 M		Take-off from abeam Holding Point S1.
27	2465 M	2924 M	2495 M		Take-off from abeam Holding Point W1.
27	1610 M	2069 M	1640 M		Take-off from abeam Holding Point S1.
27	837 M	1256 M	867 M		Take-off from abeam Holding Point M1.

EGNX AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Coded centre-line with five crossbars 900 M HI. Centre-line with one crossbar 420 M LI.	Green Light intensity high With green wingbars	PAPI Left/3° 55 FT 347 M		Bi-directional Colour coded centre-line 15 M spacing Light intensity high	Inset HI bi-directional	Red Light intensity high	31 M Red	
27	Coded centre-line with five crossbars 900 M HI. Supplementry lighting inner 300 M. Centre-line with one crossbar 420 M LI.	Green Light intensity high With green wingbars	PAPI Left/3° 55 FT 372 M	900 M	Bi-directional Colour coded centre-line 15 M spacing Light intensity high	Inset HI bi-directional	Red Light intensity high	30 M Red	

EGNX AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: West Anemometer 524954.56N 0012031.01W (LGTD); East Anemometer 524956.45N 0011847.19W (LGTD).
3	TWY edge and centre line lighting	CL: Green centre-line lights (15 M spacing) and red stopbars, except the Mike Taxiway has no centre-line lights south of the Alpha Taxiway. Taxiways Delta and Charlie have no centre-line lighting. EDGE: Blue edge lights.
4	Secondary power supply/switch-over time	Yes. Less than 1 second.
5	Remarks	Apron floodlights.

EGNX AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGNX AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
EAST MIDLANDS CTR 1 525510N 0012530W - 525456N 0011804W - 525255N 0010733W - 524558N 0010733W - 524537N 0011628W - 524536N 0011932W - 525510N 0012530W	Upper limit: FL105 Lower limit: SFC	D	EAST MIDLANDS RADAR English	6000 FT		
EAST MIDLANDS CTR 2 525510N 0012530W - 524536N 0011932W - 524535N 0012816W - 525233N 0013241W - 525510N 0012530W	Upper limit: 5500 FT ALT Lower limit: SFC	D	EAST MIDLANDS RADAR English	6000 FT		
EAST MIDLANDS ATZ A circle, 2.5 NM radius, centred at 524952N 0011940W on longest notified runway (09/27)	Upper limit: 2000 FT AGL Lower limit: SFC	D	EAST MIDLANDS RADAR English	6000 FT		

EGNX AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	EAST MIDLANDS GROUND	121.905 DOC 3 NM/GND.			H24	VDF 524956.61N 0011958.25W On AD.
	EAST MIDLANDS TOWER	124.005 DOC 25 NM/4000 FT.			H24	
RADAR	EAST MIDLANDS DIRECTOR	120.130 DOC 25 NM/ 10,000 FT.			As directed by ATC.	ATZ hours coincident with Radar hours. VDF 524956.61N 0011958.25W On AD.
	EAST MIDLANDS RADAR	126.180 DOC 60 NM/ 20,000 FT.			H24	
		134.180 Lower Airspace Radar Service. DOC 60 NM/ 20,000 FT.			H24	
ATIS	EAST MIDLANDS INFORMATION	122.680 DOC 60 NM/ 20,000 FT.			H24	
OTHER	EAST MIDLANDS FIRE	121.600 Non-ATS Frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNX AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.84°E (2027)	IEMW	109.350 MHz	H24	524953.30N 0011807.40W		(RWY 09)
ILS/GP	IEMW	331.850 MHz	H24	524954.61N 0012031.10W		3° ILS Ref Datum Hgt 56 FT.
ILS/LOC III 0.82°E (2027)	IEME	109.350 MHz	H24	524949.74N 0012122.96W		(RWY 27)
ILS/GP	IEME	331.850 MHz	H24	524956.50N 0011847.13W		3° ILS Ref Datum Hgt 54 FT.
VOR/DME 0.76°E (2027) 0.6°E (2023)	HON	83Y 113.650 MHz	H24	522124.04N 0013949.41W	435 FT	VOR/DME DOC: 60 NM/50,000 FT (85 NM/50,000 FT in Sector R179-239 and 100 NM/50,000 FT in Sector R314-001).
VOR/DME 0.48°E (2027) 0.50°E (2023)	POL	58X 112.100 MHz	H24	534437.60N 0020611.83W	1438 FT	VOR/DME DOC: 115 NM/50,000 FT (150 NM/50,000 FT in Sector R075-015). Due to terrain, coverage at low level is reduced in Sector R280-335.
NDB (L) 0.88°E (2027)	EME	353.500 kHz	H24	524957.69N 0011140.43W		Range 20 NM.
NDB (L) 0.79°E (2027)	EMW	393.000 kHz	H24	524943.19N 0012715.98W		Range 10 NM.
ILS/DME	IEMW	30Y 109.350 MHz	H24	524957.99N 0011940.24W	322 FT	(RWY 09) On AD. Freq paired with ILS I-EMW and I-EME. Zero range indicated at THR of Runway 09 and 27.
ILS/DME	IEME	30Y 109.350 MHz	H24	524957.99N 0011940.24W	322 FT	(RWY 27) On AD. Freq paired with ILS I-EMW and I-EME. Zero range indicated at THR of Runway 09 and 27.
VOR/DME 0.96°E (2027) 0.8°E (2024)	DTY	111X 116.400 MHz	H24	521048.51N 0010649.64W	600 FT	RNAV substitution only. VOR DOC: 45 NM/50,000 FT (55 NM/50,000 FT in Sector R009-089). DME DOC: 60 NM/50,000 FT (75 NM/50,000 FT in Sector R284-344).
VOR/DME 0.69°E (2027) 0.4°E (2025)	TNT	104X 115.700 MHz	H24	530314.23N 0014011.90W	994 FT	RNAV substitution only. VOR DOC: 20 NM/50,000 FT (40 NM/50,000 FT in Sector R100-205). DME DOC: 80 NM/50,000 FT (100 NM/50,000 FT in Sector R300-000).

EGNX AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use by aircraft not able to communicate with ATC by radio is subject to prior permission.
b) Use governed by regulations applicable to East Midlands CTR.
c) Jet aircraft failing to meet certification levels appropriate to Chapter 3 will not be permitted to land or take-off between 2300-0700 (2200-0600) except in special circumstances. Dispensation to do so within strict guidelines must be sought from ATC.
d) Use of East Midlands Airport is subject to Standard Conditions of Use, which can be requested from the Finance Section. Tel: +44(0)1332-852975 or by e-mail: finance@eastmidlandsairport.com.
e) All flights, except General Aviation and military flights, are subject to the prior approval of the Managing Director, East Midlands Airport Ltd and prior notification to Airport Co-ordination Ltd, who act as an agent for the Airport. Requests for ad-hoc slot allocations should be made to ACL during working hours Mon - Fri 0830-1700 by e-mail: lonacxh@acl-uk.org; or Tel: +44(0)161-493 1850, Fax: +44(0)161-493 1853, or at all other times to Airfield Operations: +44(0)1332-852 973. OCS account holders can add, change and cancel slots at any time on the online co-ordination portal: https://www.online-coordination.com/default.aspx?AspxAutoDetectCookieSupport=1.
f) All visiting aircraft must pre-book a designated handling agent prior to landing at EMA.

g) Planned Diversion Procedure - All operators are advised that before filing East Midlands as an alternate, they are required to have made arrangements for ground handling, maintenance and aircraft recovery. This arrangement is subject to the agreement of the Airport Management. Nothing in this procedure shall however prevent an aircraft that has declared an emergency from landing.

2 GROUND MOVEMENT

a) Stand allocation will be by the Airport Authority.
b) Aircraft must be pushed back from parking stands unless operating form a self-manoeuvring stand (as detailed in AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS). Powerback manoeuvres are not permitted.
c) Pushback clearances may be issued to designated Tug Release Points (TRP's) where applicable. Standard pushback clearances will be given when TRP's are not installed. See Aircraft Ground Movement/Parking/Docking Chart AD 2.EGNX-2-2 for TRP locations.
d) The airside area is a 24 hour mandatory high visibility clothing area. All flight crews are to wear high visibility clothing for all ramp activities (including aircraft walkrounds).
e) The operators of all aircraft using the aprons, all of which are within the Critical Area as defined by the requirements of the Aviation Security Act 1982 as amended by the Aviation and Maritime Security Act 1990, shall designate a handling agent in advance of any inbound flight.
f) Parking on the aprons is strictly PPR. Within the apron areas only, crew and passenger transport may, subject to availability and payment, be provided by the handling agents.

   The apron areas to the west of the M Taxiway is not available for aircraft parking except:

   i. On the aprons outside all hangars with the permission of the company occupying the hangar concerned or the Airport Authority;
   ii. On the area bounded by dashed white lines on the west side of the Maintenance Area North apron and with the permission of Donair Limited.

   Aircraft operators parking on any part of this area without permission will be in contravention of the Airport Byelaws relating to East Midlands Airport made under the Civil Aviation Act 1982.

g) Due to turn constraints, aircraft with a wingspan in excess of 36 M must exercise caution when using Taxiways M and S. Taxiways M and S are not available for MD-11 and aircraft larger than Code D.
h) Aircraft ground movement modelling for Code F and above, is available on request to ops.safety@eastmidlandsairport.com.
i) All aircraft with a wing span in excess of 36 M must exercise caution when using the Taxiway M intersections with the runway and Taxiway A due to taxiway width constraints.
j) When using Runway 27, Taxiway S is normally used for departures. Landing traffic should not plan to vacate the runway at Taxiway S without first requesting permission from ATC.
k) Aircraft up to max Beech King Air (B350) only can use code B Taxilane MA.
l) During taxiing, pilots should be expected to encounter a wide range of differing aircraft types and sizes which may be difficult to visually acquire during periods of poor visibility or at night. Aircrew remain responsible for wingtip separation and, if in any doubt, should stop, hold position and request marshaller assistance. Pilots should exercise caution when taxiing on A in the vicinity of runway intersections H, M, S and W due to the possible presence of other aircraft holding at these intersections for departure.
m) Long wheelbase code E/F aircraft eg. A340-500/600, A350-900/1000, B747-8, B787-10 etc should use caution when entering/exiting the runway at all exits due to pavement width constraints.
n) All departing B747 operations on the East and West aprons are to use minimum break away power when first moving away. Additionally, due to jet blast, all arriving and departing B747s shall use the minimum thrust necessary when taxiing in the East and West aprons.
o) Taxiway C is restricted to Code C operations. Code D aircraft using stands 20 (B767-300W) and 24 (B757-200W) must be towed on and towed off via Q.
p) East apron entrance/exit V is restricted to maximum span of 68.4 M and maximum length of 76.25 M (B747-8).

3 CAT II/IIIB OPERATIONS

a) Runway 27, subject to serviceability of the facility, is suitable for Category II/IIIb operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II/IIIb operations, special ATC procedures (Low Visibility Procedures) will be applied. Pilots will be informed by ATIS broadcast or by RTF when these procedures are in operation.
c) Holding Points Sierra 1 and 2, Whiskey 1 and 2, Mike 1 and 2 and Hotel 1 and 2 are closed when Low Visibility Procedures are in force.
d) All Runway 27 departures will be via Holding Point Alpha 2 only, and all landing aircraft must only vacate the runway via Holding Point Golf 2.
e) Low Visibility Procedures Runway 09

   i. During periods of low visibility, to protect departing aircraft, 'Low Visibility Procedures' may be in force. Arriving aircraft are limited to CAT I or LTS CAT I approaches only. Pilots will be informed via ATIS broadcast or by RTF when these procedures are in operation.
   ii. During Low Visibility Procedures all departures will be via Holding Point Golf 2 only and all landing aircraft must vacate via Holding Point Alpha 2.

f) When visibility drops below 350 M, Airfield Operations 'lead vehicles' are available on request.

4 WARNINGS

a) Interference causing large fluctuations to the heading indications of magnetic compasses may be experienced by aircraft in the vicinity of holding point Whiskey One and on the runway, north of Whiskey One. All pilots are advised to carry out any pre take-off check of Direction Indicator against magnetic compass in areas other than those mentioned above.
b) Grass Cutting:

Consequent upon the implementation of the long grass programme relating to the control of birds, the following will be introduced:

Grass cutting may take place on a daily basis between April and October inclusive within the strip enclosing Runway 09/27. Circuit flying by light aircraft may be restricted at certain times to permit grass cutting in the areas immediately adjacent to the runway.

c) Pilots are advised that in the Spring and Autumn, bird concentrations may be present on all areas under agricultural use on the approaches to Runway 09/27. Deterrent measures within the Airport's boundaries are carried out by the Bird Control Unit and pilots may be requested by ATC to delay a departure or arrival if bird concentrations within the Bird Control Unit's area of control prove difficult to disperse.
d) A pyrotechnic factory is sited approximately 3 NM north of the aerodrome. Pilots are warned that rockets, carrying flares of up to 150,000 candela deployed on parachutes, may be tested up to a height of 1000 FT AGL, (1100 FT AMSL) by day and night.
e) A flare stack is sited at Chellaston (*525154N 0012536W). The stack is 36 FT above ground level (266 FT AMSL) and the flare is 20 FT in length.
f) There is a model aircraft flying site located approximately 2.3 NM north east of the airport within the ATZ and Long Eaton Lane (5253337N 0011722W). SUA (Small Unmanned Aircraft) operations will usually remain below a height of 400 FT (495 FT AMSL). In exceptional circumstances, SUA operations may be permitted up to a height of 800 FT (895 FT AMSL) subject to approval from East Midlands Airport ATC. In this case, ATC will advise aircraft operating in the vicinity of the site that high level SUA operations are taking place.
g) The grass verges of the taxiways and aprons are weak in places and liable to waterlogging.
h) Pilots are warned of the possibility of building induced turbulence and wind-shear when landing on Runway 09 in strong southerly winds.
i) High sided vehicles may be parked adjacent to the western perimeter fence.
j) The Maintenance Area and Taxiway M, south of M3 are not controlled by ATC. Pilots should exercise caution and expect uncontrolled vehicle and aircraft movements in this area.
k) Two wind turbines operational bearing 230° from the ARP, range 1076 M, max blade-tip height 148 FT AGL. Pilots may experience a slight increase in turbulence in southerly winds.
l) Cables exist north of the airport.
m) Certain radio navigation and landing aids are unavailable due to maintenance during the following periods of each month:

i. ILS - Sunday 0900-1300 (0800-1200).
ii. M511 - 2nd Tuesday of the month 0930-1330 (0830-1230).
iii. EME - 4th Monday of the month 0930-1230 (0830-1130).
iv. EMW - 3rd Monday of the month 0930-1230 (0830-1130).
v. FFM - 4th Thursday of the month 0930-1200 (0830-1100).
vi. DME - 2nd Wednesday of the month 0930-1130 (0830-1030).

5 HELICOPTER OPERATIONS

a) IFR.

i. Arrival Procedures

1. Following an IFR approach to Runway 09/27 ground or air taxi to parking areas as instructed by ATC. Helicopters which can ground taxi, will normally follow the taxiway to their assigned parking area.

ii. Departure procedures

1. Proceed via the taxiway system for a departure on Runway 09/27 as directed by ATC.

b) VFR.

i. Arrival Procedures

1. Helicopters should expect to be cleared into the CTR via the Long Eaton or Shepshed VFR Lanes direct to either left or right base at level as may be assigned by ATC. Overflight of the villages of Castle Donington to the north and Diseworth to the south is to be avoided.
2. On receipt of a landing clearance, helicopters are to land on Runway 09/27 and follow instructions issued by ATC for appropriate runway exit point and stand or parking area. Pilots should avoid exiting the runway via A1, W1 or S1 in the case of Runway 27 or G1, H1 or M1 in the case of Runway 09 without specific instructions from ATC.
3. On vacating the runway, pilots should expect instructions to taxi to the designated parking area following the taxiing procedures applicable to IFR arriving flights (see sub paragraph a (i)).

ii. Departure Procedures

1. Pilots of Helicopters should expect instructions to proceed via the taxiway system for a departure on Runway 09/27 as directed by ATC.

c) Special VFR Procedure

i. Arrivals and Departures are as for VFR arrival and departure procedures.

d) Helicopter Movements to/from Donington Park

i. All helicopters operating into and from Donington Park Racing Circuit shall use only areas defined and promulgated by the owners of the site and their permission to operate shall have first been obtained by the aircraft commander.

ii. The owners of the site shall promulgate to helicopter operators to whom they grant permission to land, details of any site to be used and shall draw their attention to the restrictions which they, the owners, may place upon it and to the Air Traffic Rules for the East Midlands Control Zone/Control Area.
iii. Air Traffic Control Instructions for helicopters to proceed to or depart from Donington Park Racing Circuit will not be withheld for any reasons other than traffic reasons, but any such instruction given shall not constitute a clearance to land nor shall it to be deemed by the aircraft commander as granting permission to use the approved site.

6 USE OF RUNWAYS

a) In accordance with EU OPS Sub-part E the following approach operations are available to approved operators:

i. Runway 09 suitable for Lower than Standard Category I operations supported by an ILS Classification of II/D/2;
ii. Runway 27 suitable for Lower than Standard Category I operations supported by an ILS Classification of II/D/2.

7 TRAINING

a) Training flights and Instrument Rating Tests. Training requires the prior approval of ATC and application should be made as far in advance as possible; see AD 2-EGNX-1-11 paragraph 10. Special conditions apply for jet-engined aircraft. Operators wishing to take advantage of rebated fees and charges for training are advised that application for training rebates MUST be made in advance to the Airport Authority. Rebates are not granted retrospectively.

EGNX AD 2.21 NOISE ABATEMENT PROCEDURES

1 NOISE

a) Noise abatement Procedures – All aircraft inbound or outbound from the aerodrome are required to conform to the following procedures; notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger, or in compliance with ATC instructions.

2 GENERAL

a) Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance to the area around the aerodrome.
b) Whenever possible aircraft should avoid overflying the villages of Diseworth (south of the aerodrome) and Castle Donington (north of the aerodrome).

3 TAKE-OFF AND CLIMB PROCEDURES (INCLUDING 'GO-AROUNDS')

a) Aircraft Operators shall instigate their aircraft manufacturer's noise abatement recommended procedures on departure and up to FL 100, or the procedures listed in paragraphs i to vi:

i. Take-off to 1500 FT QNH:

Power – Normal take-off.

Speed – V2 + 10 KT (+).

Flaps – Set as appropriate.

ii. 1500 FT to 3000 FT QNH:

Power – Reduced to climb thrust.

Speed – V2 + 10 KT (+).

Flaps – Maintain previous setting.

Note: *V2 + 10 KT (+) indicates that V2 + 10 may be exceeded where pitch angle or specific aircraft characteristics are possible limiting factors.*

iii. At 3000 FT QNH Retract flaps on schedule and assume normal en-route climb.
iv. Between 3000 FT QNH and FL 100: Maximum climb speed 250 KT unless otherwise instructed.
v. **All** turbo-jet aircraft or turbo-fan aircraft departing from Runway 27 shall attain an altitude of 1500 FT and shall have passed the end of the runway before commencing any turn.
vi. Aircraft 'going around' from an approach to Runway 27 shall not commence any turn until the end of the runway and shall avoid overflying Castle Donington (sector 360° MAG to 065° MAG, radius 0.65 NM from the localizer).
vii. All turbo-jet, turbo-fan aircraft and aircraft in excess of a gross weight of 17000 KG, departing 'Northbound' from Runway 09 shall, as soon as practical after passing the end of the runway, track 096° MAG to 1.5 NM before turning left in accordance with the departure SID or issued clearance.

viii. All turbo-jet, turbo-fan aircraft and aircraft in excess of a gross weight of 17000 KG, departing 'Southbound' from Runway 09 shall, as soon as practical after passing the end of the runway, track 096° MAG to 2.0 NM before turning right in accordance with the departure SID or issued clearance.

ix. After take-off the aircraft shall be operated in such a way that it is at a height of not less than 1000 FT AAL at 6.5 KM from start of roll as measured along the departure track of that aircraft.

4 TAKE-OFF PROCEDURES. RUNWAY 27 BETWEEN THE HOURS OF 2200-0700 (2100-0600)

a) All departures should be from Whiskey. Runway length from a beam Whiskey is 2463 M; full length take-off is available on request for operational performance reasons, or for ATC requirements, only. When full length is requested, aircraft may be held at A3 prior to entering Runway 27 at A1.

5 PREFERRED RUNWAY USAGE

a) During light wind conditions aircraft may be required to use either runway subject to a maximum tailwind of 5 KT.

6 ILS APPROACHES

a) When using the ILS in IMC or VMC, aircraft shall not descend below 2000 FT QNH before intercepting the glidepath, nor thereafter fly below it. Aircraft approaching without assistance from the ILS or radar shall not at any time follow a descent path lower than that which would result from an approach using guidance from the ILS.

7 CONTINUOUS DESCENT APPROACHES

a) Turbo-jet and turbo-prop aircraft are expected to apply continuous descent, low power, low drag approach techniques at all times.
b) Subject to ATC instructions, inbound aircraft are to maintain as high an altitude as practical and adopt a low power, low drag, continuous descent approach profile. ATC will provide estimated track distance to touchdown to allow pilots to descend at a rate they judge best suited to achieve continuous descent without using more power or drag than necessary. The object will be to join the glidepath at the appropriate height for the distance without level flight.
c) To facilitate these techniques aircraft should be flown no faster than 250 KT from the Speed Limiting Points and below FL100 and 250 KT-210 KT during the intermediate approach phase. Thereafter speed should be managed so as to achieve a continuous descent using as little power or drag as possible. ATC may impose speed control if required for separation purposes.
d) ATC will provide regular range checks. Pilots who require additional track mileage to facilitate a successful CDA should inform ATC as soon as the requirement is apparent.

Note: *For monitoring purposes, a descent will be deemed to have been continuous provided that no segment of level flight longer than 2.5 NM occurs below 6000 FT QNH and 'level flight' is interpreted as any segment of flight having a height change of not more than 50 FT over a track distance of 2 NM or more, as recorded in the airport Noise and track-keeping system.*

8 REVERSE THRUST

a) Pilots are requested to avoid the use of reverse thrust or reverse pitch above idle power settings on landing, consistent with the safe operation of the aircraft between the hours of 2200-0700 (2100-0600).

9 VISUAL CIRCUITS

a) Large aircraft and all turbo-jet and turbo-fan aircraft, when carrying out circuits, shall be flown at an altitude of at least 2000 FT QNH and turns onto the crosswind leg must not be initiated until after passing the up-wind end of the runway.
b) Pilots shall avoid making their final turn on approach to Runway 27 over the village of Kegworth. All circuits to the south of the aerodrome must keep clear and south of the village of Diseworth, all circuits to the north of the aerodrome must keep clear and north of the village of Castle Donington.
c) Pilots shall avoid direct over flight of the villages of Aston and Weston-on-Trent 2 NM to the northwest of the aerodrome.

10 TRAINING FLIGHTS

a) Training requires the prior approval of ATC. Permission will only be given for such flights between 0800-1200 (0700-1100) and 1400-1800 (1300-1700). Training will only be permitted by based operators, regular users of the airport or non-jet aircraft below 5700 KG MTOW. Training on Saturdays, Sundays and UK Public Holidays will not be permitted except by non-jet aircraft below 5700 KG MTOW.

11 ENGINE RUNNING

a) Engine running of aircraft will not be approved between 2300-0600 (2200-0500), unless an aircraft is urgently required to provide an operational service. For further information contact the Airfield Operations Duty Manager on Tel: 07542-383390.
b) Static ground running of aircraft engines above idle power is not permitted for Code D, E or F aircraft having more than two engines.

12 AUXILIARY POWER UNITS (APU)S

a) Use of APU shall be limited as much as possible.
b) APU may be used:

i. 5 minutes after 'On Blocks';
ii. 30 minutes before Estimated Time of Departure (ETD).

Except for operational extensions approved by the Duty Airfield Operations Supervisor on Tel: 01332-852925.

13 OPERATION RESTRICTIONS

a) Any aircraft which has a quota count of 16, 8 or 4 may not take off or land during the night period 2300-0700 (2200-0600).
b) An aircraft may not take off or be scheduled to land during the night period where the operator of that aircraft has not provided (prior to its take-off or prior to its scheduled landing time as appropriate) sufficient information to enable the airport authority to verify its noise classification and thereby its quota count.

14 NIGHT NOISE LIMITS

a) Aircraft departing between 2300-0700 (2200-0600) are required to operate within a maximum noise limit (measured at a distance of 6.5 KM from start of roll). Noise limits at specific monitors may vary from the below. This is due to adjustments at each monitor made with reference to the height and distance relative to 6.5 KM from start of roll, and the departure route flown. The maximum noise limits are defined as follows.

Definition	Limit (dB(A))
Aircraft with a QC of 4, 8 or 16	See paragraph 13
Aircraft with a MTOW of 300 tonnes or greater	92
Aircraft with a MTOW greater than 100 tonnes but less than 300 tonnes	87
Aircraft with a MTOW of 100 tonnes or less	81

b) QC = quota count (as defined in the UK AIP Supplement)
c) Any aircraft shall, after take-off, be operated in such a way that it will not cause more noise than these limits when measured at any noise monitoring terminal at any of the sites in the table below:

Site	Elevation above aerodrome	Latitude	Longitude
Site 1: Weston-on-Trent	39 M	525040N	0012459W
Site 2: Wilson	47 M	524922N	0012352W
Site 3: Sutton Bonington	43 M	524941N	0011455W

d) The limits shall be adjusted in accordance with the following table to take account of the location of the terminal and its ground elevation relative to the aerodrome elevation

Site	Adjustment dBA
Site 1: Weston-on-Trent	Minus 2.5
Site 2: Wilson	Plus 3.9
Site 3: Sutton Bonington – TNT/POL	Minus 1.9
Site 3: Sutton Bonington – DTY	Minus 2

e) Aircraft that exceed a maximum noise limit will be subject to a penalty as stated in the airport fees and charges document.

EGNX AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Arrival Routes (STARs).

i. Standard Arrival routes for aircraft inbound from the UK ATS Route Network will be routed via the Standard Terminal Arrival Routes (STARs) detailed at AD 2-EGNX-7-1 to 7-4.
ii. Where STARs are designated as RNAV1 Only, Non-RNAV 1 aircraft shall file the via the existing route structure as featured in the Standard Route Document (SRD). Aircraft should not proceed beyond ROKUP or PIGOT without ATC clearance.

b) Aircraft inbound from the UK ATS Route Network will be cleared into the CTR/CTA without having to request a specific entry clearance.
c) Initial Approach Procedures for aircraft to proceed from holding area PIGOT and ROKUP are detailed at AD 2-EGNX-7-10 to 7-11.

Note: *Due to the removal of the DTY/TNT DVORs, IAPs as detailed at AD 2-EGNX-7-10 and 7-11 are only available to aircraft that are RNAV1 compliant.*

d) Inbound Procedure other than on the UK ATS Route Network.

i. Aircraft wishing to enter the East Midlands CTR/CTA direct from the London Flight Information Region are required to obtain permission at least 10 minutes before reaching the Zone or Area boundary, when they will be advised of the route to be followed consistent with the current traffic situation.

e) Holding patterns are as follows:

Midlands NDB(L) EME	Holding axis 270° M inbound, turning left, maximum holding speed 210 KT, minimum holding level, 3000 FT ALT.
Midlands NDB EMW	Holding axis 090° M inbound, turning right, maximum holding speed 210 KT, minimum holding level, 3000 FT ALT.
PIGOT	Terminal Holding Fix is established at PIGOT as detailed on the appropriate STAR charts.
ROKUP	Terminal Holding Fix is established at ROKUP as detailed on the appropriate STAR charts.

f) Minimum Runway Occupancy Requirements

i. Landing aircraft are reminded that prompt exit from the runway will enable ATC to apply minimum spacing on final approach and will minimise the risk of 'go-arounds'. Pilots of landing aircraft are therefore requested to vacate the runway via the first available taxiway corresponding to operational requirements or as directed by ATC.
ii. With the exception of MD11 and Code E and above aircraft, the preferred exit after landing on Runway 27 is Mike. Pilots shall only attempt to vacate at Sierra when they have obtained permission from East Midlands Tower during final approach.
iii. After landing on Runway 09, unless there is reasonable assurance of slowing in time to vacate at Sierra, landing aircraft are requested to keep their speed up and vacate the runway via Whiskey. During Runway 09 operations, permission to vacate at Sierra does not need to be obtained from ATC prior to landing.
iv. Pilots are reminded that taxiways Sierra and Mike are unsuitable for MD11 and Code E and above aircraft.

g) Approach with Radar Control

i. Aircraft will be radar vectored for an intermediate approach profile that should allow a low power/low drag continuous descent approach to be carried out. To achieve this profile, pilots should plan to be at FL 100 and 250 KT by 35 NM from touchdown, reducing to 250 KT-220 KT by 6000 FT ALT 20 NM from touchdown. Estimated track distance will be given to allow pilots to descend at a rate they judge best suited to achieve continuous descent without using more power or drag than necessary. The object will be to join the glidepath at the appropriate height for the distance without level flight.
ii. For planning purposes, 35 NM from touchdown equates approximately to the following positions:.

Runway	From the South	From the North
09	28 NM N of DTY 17 NM DME from I-EMW	VEGAR 26 NM DME from I-EMW
27	VELAG 28 NM DME from I-EME	Abeam TNT 16 NM DME from I-EME

h) Approach without Radar Control

i. When traffic is not being sequenced by Surveillance Radar, aircraft will be cleared from the holding facility to carry out the approach procedure appropriate to the runway-in-use, as detailed at AD 2-EGNX 7-10 to 7-11.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Standard Instrument Departure Procedures are detailed at AD 2-EGNX-6-1 to AD 2-EGNX-6-3.

Note: *Due to the removal of the DTY/TNT DVORs, SIDs as detailed at AD 2-EGNX-6-1 and 6-2 are only available to aircraft that are RNAV 1 compliant.*

b) Departure Speed Restriction: In order to optimise the departure flow and assist in the separation between successive departing aircraft, a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase 'No ATC Speed Restriction'. Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation.
c) If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation.
d) After departure aircraft must not change frequency until instructed.
e) Aircraft that operate consistently outside the noise preferential route can be subject to a penalty as stated in the airport fees and charges document.

Note: *For monitoring purposes, a departure will be deemed to have complied with the Noise Preferential Routeing (NPR) if, in the portion of flight below the 5000 FT vectoring altitude, it is properly recorded by the airport's noise and track-keeping (NTK) system as having flown wholly within the Lateral Swathe (LS). The LS is defined from the centre-line of the relevant route coded in the NTK system, based upon a map accredited for this purpose by the Department for Transport, by the closer to the route centre-line depicted on the map of (a) a pair of lines either side, each diverging at an angle of 10° from a point on the runway centre-line 2000 M from start-of-roll; and (b) a pair of parallel lines representing a distance of 1.2 KM either side of the route centre-line. For avoidance of doubt, the depicted route and LS may include curved sections representing turns.*

3 RADIO COMMUNICATIONS FAILURE PROCEDURE

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1 para 3.4.
b) Initial Approach: as per Loss of Communications on chart AD 2.EGNX-5-1.

c) Intermediate/Final Approach: as per Loss of Communications on chart AD 2.EGNX-5-1.
d) The route to be used when leaving the CTR/CTA in accordance with this procedure is as follows:

Position at time of decision	Route
NDB EME or NDB EMW	Track 350°MAG at 3000 FT ALT

4 VFR AND SPECIAL VFR FLIGHT

a) Pilots inbound to East Midlands under VFR will be instructed to report at one of the VRPs, where they will either be given a route to follow or will be identified by radar and directed into the approach sequence. If inbound aircraft are not being radar directed and direct routings are, for traffic reasons, not available, to expedite arrival, the route to follow offered to pilots after reporting at a VRP will be:

VRP	Route
Church Broughton (Disused AD) Trowell (M1 Service Area) Bottesford (Disused AD)	Via Long Eaton Entry Lane
Melton Mowbray (Disused AD) M1 Junction 22 (Markfield) M42 Junction 11 (Measham)	Via Shepshed Entry Lane

b) Clearances may be requested for Special VFR flights within the CTR and will be given whenever the traffic situation permits. These flights are subject to the general conditions laid down at ENR 1.2.

Note: *Pilots holding a Private Pilots Licence (Aeroplanes) are reminded of the visibility requirements for Special VFR flights laid down in Schedule 7 of the Air Navigation Order 2009 and in the related notification at ENR 1-4-6, note 4, paragraph d.*

c) Aircraft may be given a radar service whilst within the Zone if, due to the traffic situation, ATC considers it advisable. It will remain the responsibility of the pilot to remain at all times in flight conditions which will enable him to determine his flight path and to keep clear of obstacles, and to ensure that he is able to comply with SERA.3105 Minimum Heights, SERA.5010 Special VFR in control zones and ENR 1.2 paragraph 1.3(l). Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.

5 VISUAL REFERENCE POINTS (VRP)

a) Church Broughton (Disused AD), M1 Junction 22 (Markfield) and M42 Junction 11 (Measham) - all below 2500 FT ALT.
b) Pilots routeing via Bottesford (Disused AD) should avoid overflying the area around Langar aerodrome, which is designated as an area of intense parachuting activity.
c) Pilots routeing via Melton Mowbray (Disused AD) are advised of the proximity of the TV mast at Waltham on the Wold as it has a high elevation – See ENR 5.4 dataset for up to date details of ICAO AREA 1 Obstacles.
d) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

6 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside East Midlands Controlled Airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on East Midlands Radar frequency, 134.180 MHz, are encouraged to select SSR code 4572.

530412N 0015647W - 524800N 0015216W -
523440N 0013300W - 522846N 0012550W -
523452N 0002500W - 525320N 0002420W -
530850N 0004047W - 530818N 0013320W -
530412N 0015647W.

b) Selection of code 4572 does not imply receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of controlled airspace.

c) Whilst squawking 4572, pilots should be aware that East Midlands Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.

d) When a pilot ceases to maintain a listening watch, code 4572 shall be deselected.

7 ENTRY/EXIT LANES

a) Conditions of Use

i. To permit aircraft to operate to and from East Midlands Aerodrome in IMC but not under IFR the following entry/exit lanes have been established for use, under the conditions stated, as follows:

1. A lane 3 NM wide, known as the LONG EATON Lane, with centre-line the M1 Motorway, extending from the point where the Motorway crosses the northern boundary of the CTR (Junction 25), southwards to a point at which it crosses the extended centre-line of Runway 09/27.
2. A lane 3 NM wide, known as the SHEPSHED Lane, with centre-line the M1 Motorway, extending from the point where the Motorway crosses the southern boundary of the CTR (Motorway Junction 23), northwards to a point at which it crosses the extended centre-line of Runway 09/27.

ii. Use of the lanes is subject to SVFR clearance being obtained from East Midlands ATC;
iii. Aircraft using the lanes must remain clear of cloud and in sight of the surface, not above 2000 FT (QNH);
iv. An aircraft using a lane shall keep the centre-line on its left, unless otherwise instructed by ATC for separation purposes;
v. Pilots of aircraft are responsible for maintaining adequate clearance from the ground or other obstacles

b) In order to expedite the arrival and departure of light aircraft in VMC use of these lanes by such aircraft operating under VFR is also recommended. Use of the lanes for this purpose, irrespective of prevailing weather conditions, remains subject to clearance being obtained from ATC.

EGNX AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNX AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNX-2-1
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO
AD 2.EGNX-2-2
AERODROME CHART A380/AN225 GROUND MOVEMENT - ICAO
AD 2.EGNX-2-3
CONTROL ZONE and CONTROL AREA CHART - ENTRY/EXIT LANES and VRPS
AD 2.EGNX-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNX-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) SAPCO (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGNX-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) TRENT (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGNX-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) POLE HILL - ICAO
AD 2.EGNX-6-3
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) AMPIT 2E DOLOP 1E MAKUX 1E MALUD 1E WAL 2E - ICAO
AD 2.EGNX-7-1
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BEGAM 1E CROFT 1E LIBSO 1E VEGUS 1E - ICAO
AD 2.EGNX-7-2
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) POL 1E - ICAO
AD 2.EGNX-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) DTY 1E HEMEL 1E - ICAO
AD 2.EGNX-7-4
STANDARD INSTRUMENT ARRIVAL CODING TABLES AMPIT 2E DOLOP 1E MAKUX 1E
AD 2.EGNX-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES MALUD 1E WAL 2E BEGAM 1E
AD 2.EGNX-7-6
STANDARD INSTRUMENT ARRIVAL CODING TABLES CROFT 1E LIBSO 1E VEGUS 1E
AD 2.EGNX-7-7
STANDARD INSTRUMENT ARRIVAL CODING TABLES POL 1E DTY 1E HEMEL 1E
AD 2.EGNX-7-8
RNAV HOLD CODING TABLES ROKUP PIGOT
AD 2.EGNX-7-9
INITIAL APPROACH PROCEDURES ILS/DME RWY 09 via PIGOT/ROKUP (RNAV SUBSTITUTION ONLY)
AD 2.EGNX-7-10
INITIAL APPROACH PROCEDURES ILS/DME RWY 27 via PIGOT/ROKUP (RNAV SUBSTITUTION ONLY)
AD 2.EGNX-7-11
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 09 - ICAO

AD 2.EGNX-8-1
INSTRUMENT APPROACH CHART ILS/NDB(L) RWY 09 - ICAO
AD 2.EGNX-8-2
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 09 - ICAO
AD 2.EGNX-8-3
INSTRUMENT APPROACH CHART LOC/NDB(L) RWY 09 - ICAO
AD 2.EGNX-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 09 - ICAO
AD 2.EGNX-8-5
INSTRUMENT APPROACH CHART NDB(L) RWY 09 - ICAO
AD 2.EGNX-8-6
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 27 - ICAO
AD 2.EGNX-8-7
INSTRUMENT APPROACH CHART ILS/NDB(L) RWY 27 - ICAO
AD 2.EGNX-8-8
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 27 - ICAO
AD 2.EGNX-8-9
INSTRUMENT APPROACH CHART LOC/NDB(L) RWY 27 - ICAO
AD 2.EGNX-8-10
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 27 - ICAO
AD 2.EGNX-8-11
INSTRUMENT APPROACH CHART NDB(L) RWY 27 - ICAO
AD 2.EGNX-8-12

EGNX AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 524952N 0011940W

AD ELEV 306FT

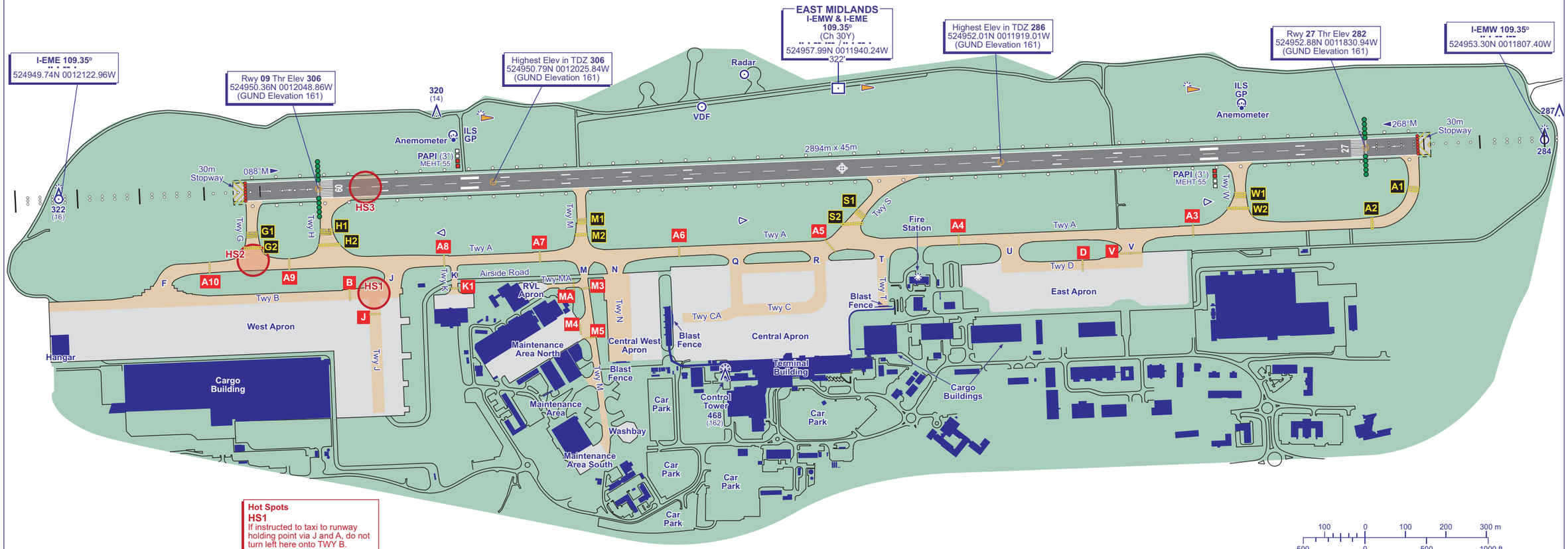
EAST MIDLANDS
EGNX

VAR 0.0°W - 2022
N
Annual Rate of Change 0.20°E

370 (64)

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**468** (162)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**BEARING STRENGTH**
RWY 09/27	Asphalt (Ungrooved PFC)	87/F/C/W/T
Central Apron	Concrete	63/R/D/X/U
Central-West Apron	Concrete	74/R/C/W/T
East Apron	Concrete	63/R/D/X/U
West Apron	Concrete	78/R/C/W/T
TWY A, G, H, M, S, W	Asphalt	66/F/C/W/U
TWY F	Concrete	78/R/C/W/T
TWY K	Asphalt	32/F/D/X/T
Taxilane B, J	Concrete	78/R/C/W/T
Taxilane C, CA, D, Q, R, T, U, V	Concrete	63/R/D/X/U
Taxilane N	Concrete	74/R/C/W/T



Hot Spots

HS1
If instructed to taxi to runway holding point via J and A, do not turn left here onto TWY B.

HS2
Potential routing error. Taxiing west on TWY A for RWY 09 departure, be aware of potential to inadvertently pass TWY G.

HS3
Potential LVP routing error. When landing RWY 27 during LVPs, pass THR 09 and exit at TWY G, not inadvertently TWY H.

100 0 100 200 300 m
500 0 500 1000 ft

COM		
ATIS	122.680	EAST MIDLANDS INFO
TWR	124.005	EAST MIDLANDS TOWER
	121.905 (GMC)	EAST MIDLANDS GROUND
	121.600	EAST MIDLANDS FIRE

LIGHTING	
APCH 09/27	HI 900 m coded C/L with 5 bars. LI 420 m C/L with 1 bar.
THR 09 THR 27	HI green with green W bars. HI green with green W bars.
RWY 09/27	HI inset bi-d. Colour coded C/L. TDZ RWY 27 900 m. End lights red.
TWY	Green C/L with blue edge on corners. Turn-offs amber and green C/L with blue edge lights. Taxi holding positions.

CHANGE (6/25): RWY LIGHTING BOX TEXT.

AERO INFO DATE 01 APR 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

ARP 524952N 0011940W

AD ELEV 306FT

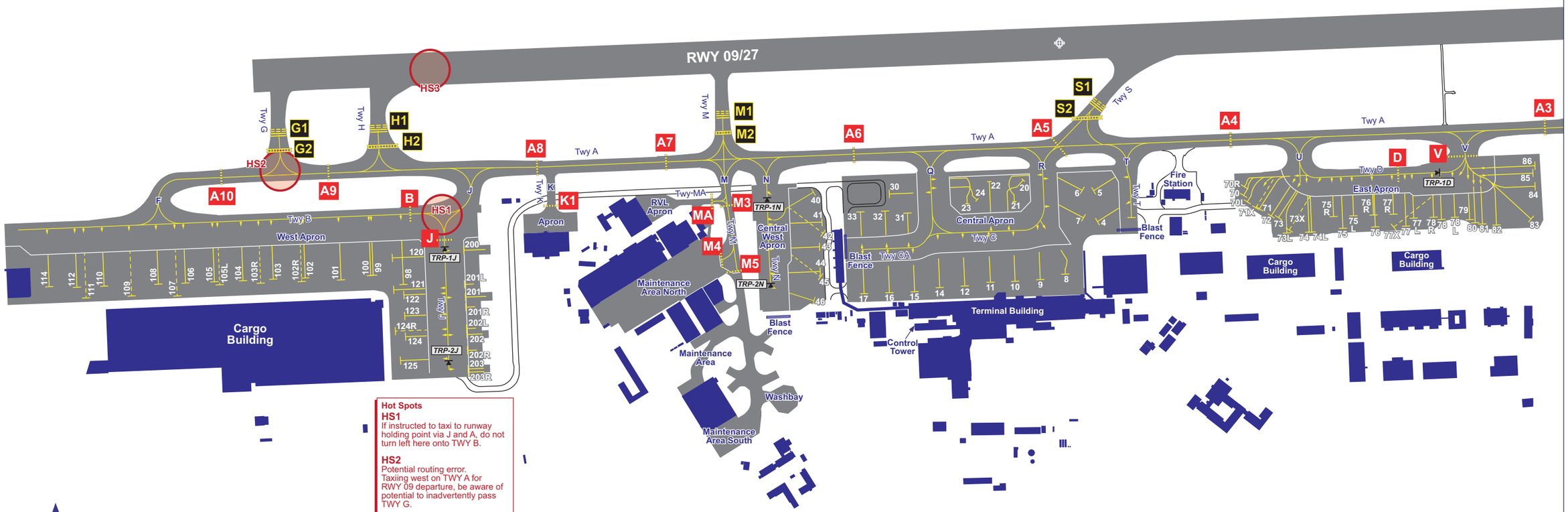
EAST MIDLANDS
EGNX

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**BEARING STRENGTH**
RWY 09/27	Asphalt (Ungrooved PFC)	87/F/C/W/T
Central Apron	Concrete	63/R/D/X/U
Central-West Apron	Concrete	74/R/C/W/T
East Apron	Concrete	63/R/D/X/U
West Apron	Concrete	78/R/C/W/T
TWY A, G, H, M, S, W	Asphalt	66/F/C/W/U
TWY F	Concrete	78/R/C/W/T
TWY K	Asphalt	32/F/D/X/T
Taxilane B, J	Concrete	78/R/C/W/T
Taxilane C, CA, D, Q, R, T, U, V	Concrete	63/R/D/X/U
Taxilane N	Concrete	74/R/C/W/T

Tug Release Point with a/c taxi orientation.
TRP

CAUTION
Aircraft to remain on taxilane centreline until marshaller has indicated to proceed onto parking position.

STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES
4	524941.01N 0011937.63W	30	524942.80N 0011957.99W	70	524942.53N 0011923.36W	77R	524941.30N 0011908.75W	98	524937.71N 0012045.60W	114	524937.81N 0012120.22W
5	524942.83N 0011938.04W	31	524941.65N 0011956.24W	70L	524942.18N 0011922.98W	77X	To be surveyed	99	524938.30N 0012048.56W	120	524939.32N 0012046.66W
6	524942.81N 0011939.05W	32	524941.80N 0011958.41W	70R	524943.05N 0011923.26W	78	To be surveyed	100	524938.29N 0012048.78W	121	524937.43N 0012046.57W
7	524941.19N 0011938.97W	33	524941.76N 0012000.82W	71	524941.76N 0011921.77W	78L	To be surveyed	101	524938.04N 0012051.69W	122	524937.12N 0012045.56W
8	524937.98N 0011940.86W	40	To be surveyed	71X	To be surveyed	78R	To be surveyed	102	524938.18N 0012055.19W	123	524935.88N 0012045.50W
9	524937.65N 0011943.31W	41	To be surveyed	72	524941.30N 0011920.66W	79	To be surveyed	102R	To be surveyed	124	524934.65N 0012045.44W
10	524937.56N 0011945.78W	42	524940.50N 0012004.52W	73	524941.20N 0011919.98W	80	524940.74N 0011900.79W	103	524938.13N 0012058.31W	124R	To be surveyed
11	524937.52N 0011948.18W	43	524939.71N 0012004.91W	73X	To be surveyed	81	524940.68N 0011900.05W	103R	To be surveyed	125	524933.25N 0012045.36W
12	524937.32N 0011950.70W	44	To be surveyed	73L	524940.26N 0011919.22W	82	524940.60N 0011858.69W	104	524938.06N 0012101.27W	200	524939.73N 0012039.64W
14	524937.23N 0011953.16W	45	To be surveyed	74	524940.30N 0011917.04W	83	524940.85N 0011855.22W	105	524938.01N 0012104.07W	201L	524937.71N 0012039.54W
15	524937.00N 0011955.61W	46	To be surveyed	74L	524940.30N 0011916.79W	84	524942.82N 0011854.79W	105L	To be surveyed	201	524936.96N 0012039.50W
16	524936.96N 0011958.08W			75	To be surveyed	85	524943.65N 0011855.10W	106	524937.95N 0012106.90W	201R	524936.40N 0012039.47W
17	524936.91N 0012000.54W			75L	To be surveyed	86	524944.09N 0011854.88W	107	524937.19N 0012107.72W	202L	524935.09N 0012039.41W
20	524943.55N 0011944.91W			75R	524941.20N 0011914.62W			108	524937.90N 0012109.55W	202	524934.75N 0012039.39W
21	524942.19N 0011945.84W			76	To be surveyed			109	524937.22N 0012112.17W	202R	524933.80N 0012039.34W
22	524943.49N 0011948.22W			76R	To be surveyed			110	524937.81N 0012114.86W	203	524932.72N 0012039.29W
23	524942.10N 0011950.46W			77	To be surveyed			111	524937.13N 0012116.62W	203R	524932.51N 0012039.28W
24	524942.41N 0011949.45W			77L	To be surveyed			112	524937.76N 0012117.51W		



Hot Spots

HS1
If instructed to taxi to runway holding point via J and A, do not turn left here onto TWY B.

HS2
Potential routing error. Taxiing west on TWY A for RWY 09 departure, be aware of potential to inadvertently pass TWY G.

HS3
Potential LVP routing error. When landing RWY 27 during LVPs, pass THR 09 and exit at TWY G, not inadvertently TWY H.

VAR 0.0°W - 2022
N
Annual Rate of Change 0.20°E

50 0 50 100 150 m
100 0 500 ft

COM		
ATIS	122.680	EAST MIDLANDS INFO
TWR	124.005	EAST MIDLANDS TOWER
	121.905 (GMC)	EAST MIDLANDS GROUND
	121.600	EAST MIDLANDS FIRE
LIGHTING		
TWY	Green C/L with blue edge on corners. Turn-offs amber and green C/L with blue edge lights. Taxi holding positions.	

CHANGE (9/25): NEW STANDS 102R, 103R, 105L, 124R, 71X, 73X & 77X. EAST APRON STANDS MODIFIED.

AERO INFO DATE 12 JUN 25

AERODROME CHART
A380/AN225 GROUND MOVEMENT - ICAO

ARP 524952N 0011940W

AD ELEV 306FT

EAST MIDLANDS
EGNX



CHANGE (13/23): HOT SPOT 3.

AERO INFO DATE 16 OCT 23

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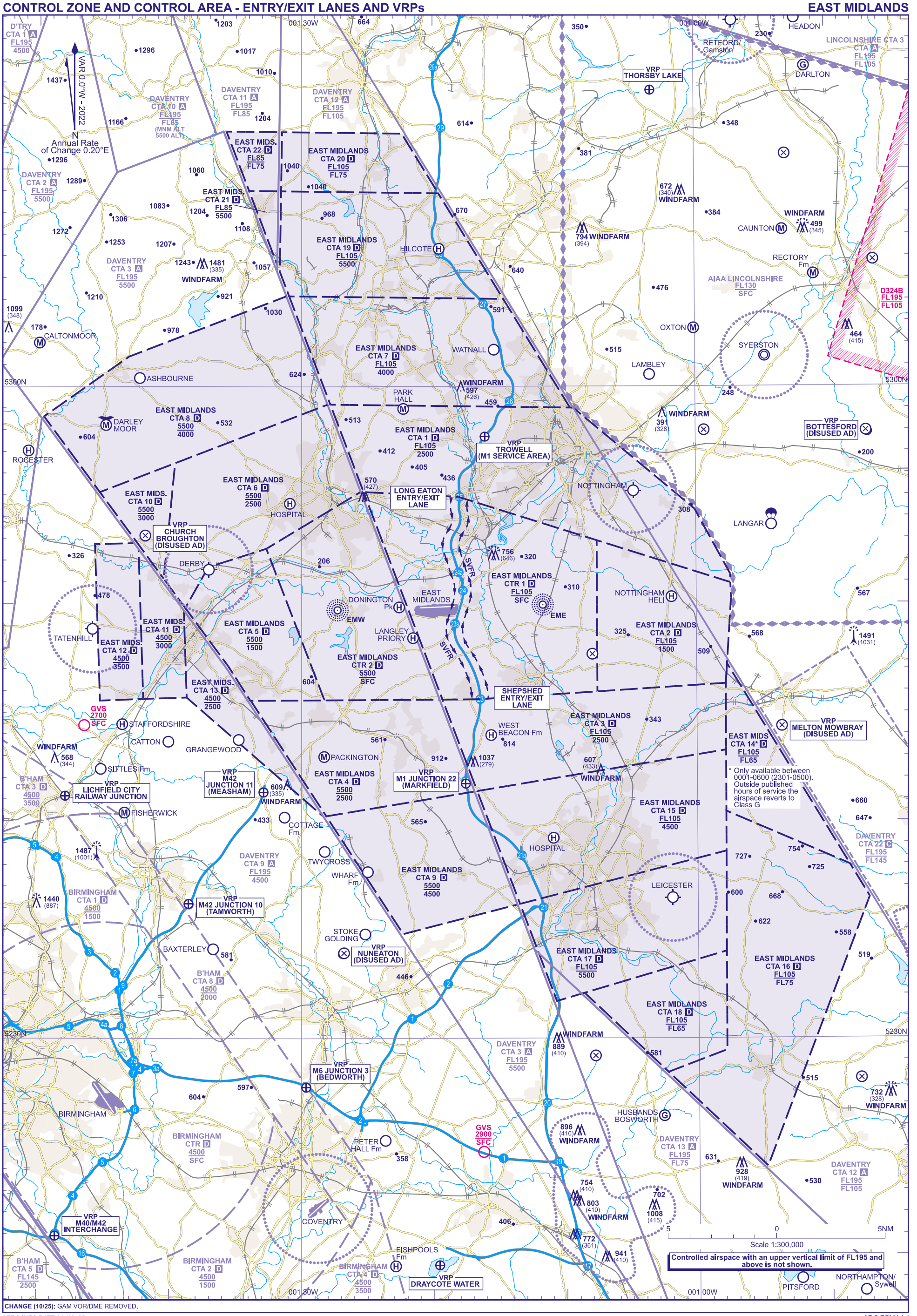
CONTROL ZONE AND CONTROL AREA - ENTRY/EXIT LANES AND VRPs

EAST MIDLANDS



* Only available between 0001-0600 (2301-0500). Outside published hours of service the airspace reverts to Class G

CHANGE (10/25): GAM VOR/DME REMOVED.

AERO INFO DATE 24 JUL 25

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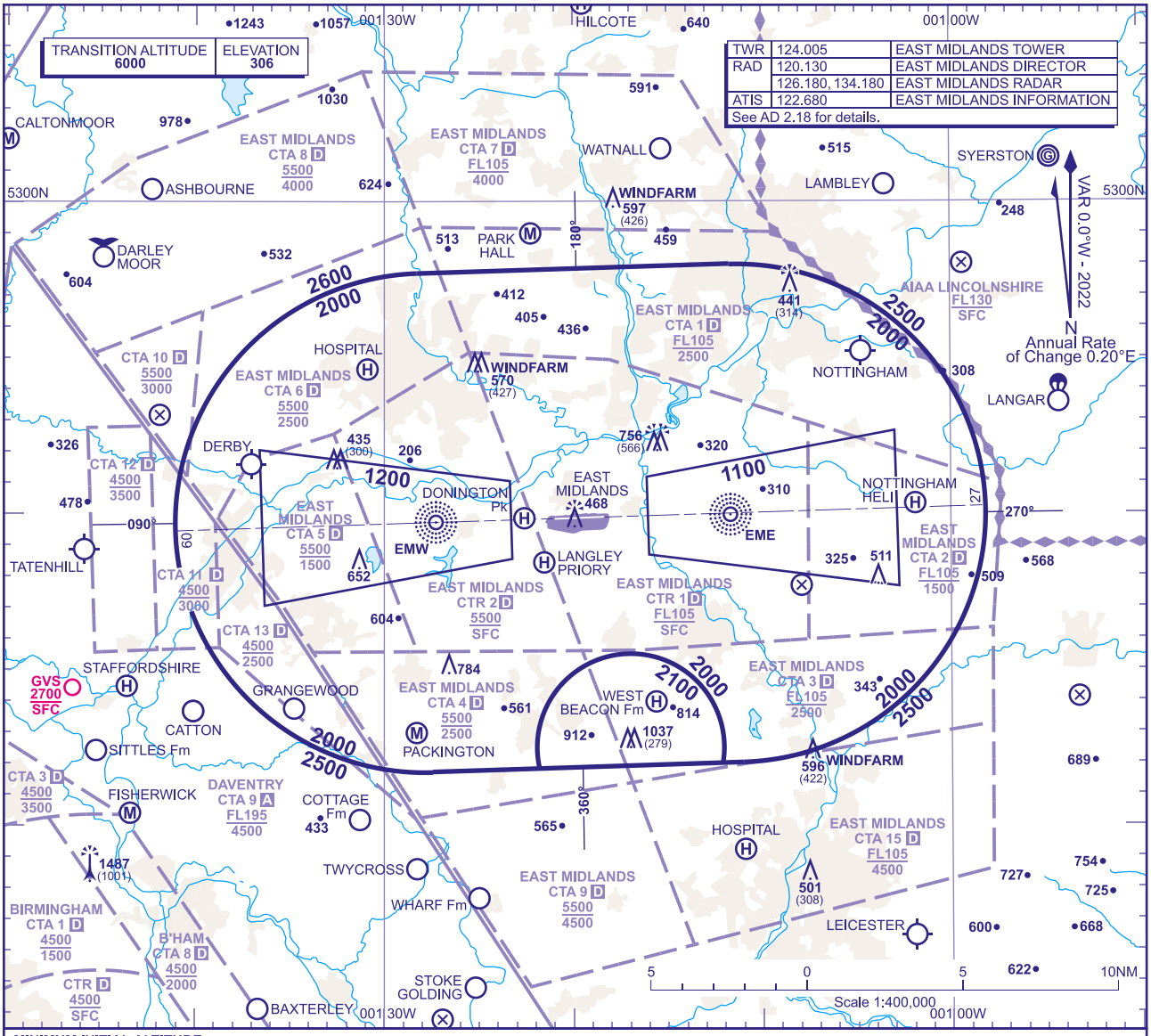
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1501
HEIGHTS IN FEET AGL (1001)

EAST MIDLANDS



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2000** in the sector defined by the lateral limits; 525742N 0012817W - 525800N 0011144W thence clockwise by an arc of a circle radius 8NM centred on 525000N 0011121W to 524201N 0011059W - 524143N 0012726W thence clockwise by an arc of a circle radius 8NM centred on 524942N 0012751W to 525742N 0012817W, except;

b) **2100** in the sector defined by the lateral limits; 524150N 0012147W thence clockwise by an arc of 3NM radius centred on 524230N 0011659W to 524200N 0011207W - 524150N 0012147W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher to **NDB(L) EMW** for RWY 09 approaches or **NDB(L) EME** for RWY 27 approaches†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) EMW** for RWY 09 approaches or **NDB(L) EME** for RWY 27 approaches†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **Thls chart may only be used for cross-checklng of altltudes assigned when In receipt of an ATC Surveillance servlce.**
8. **When vectorlng an aircraft wlthln the FInal Approach Vectorlng Area descent clearance below the SMAA to the FAVA altltude may only be Issued If the aircraft Is elther establlshed on the flnal approach track or on an Intercept of 40° or less, and Is cleared to Intercept the flnal approach track.**
9. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
10. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 31 JAN 25

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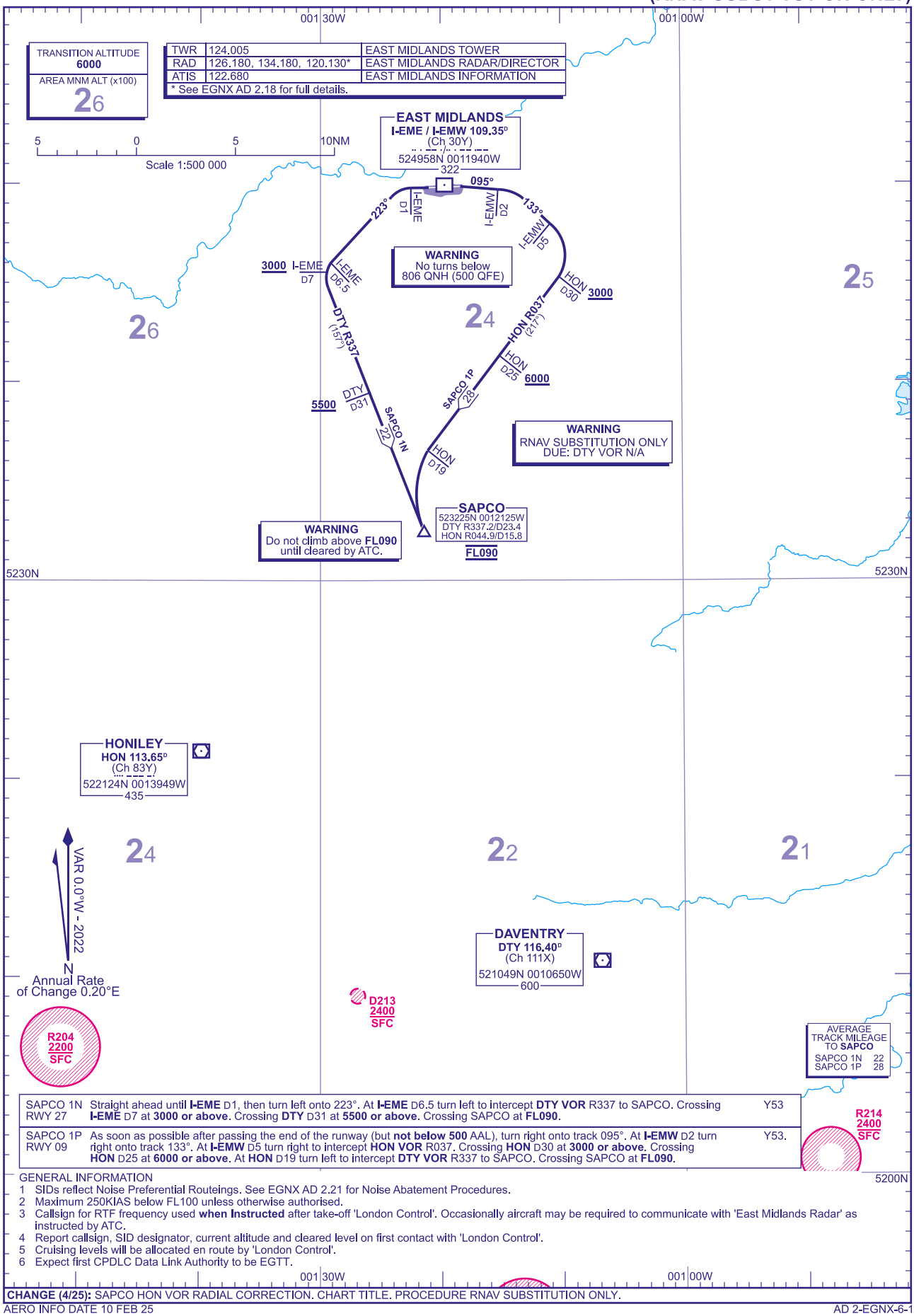
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

EAST MIDLANDS SAPCO (RNAV SUBSTITUTION ONLY)



SAPCO 1N RWY 27	Straight ahead until **I-EME** D1, then turn left onto 223°. At **I-EME** D6.5 turn left to intercept **DTY VOR** R337 to SAPCO. Crossing **I-EME** D7 at **3000 or above**. Crossing **DTY** D31 at **5500 or above**. Crossing SAPCO at **FL090**.	Y53
SAPCO 1P RWY 09	As soon as possible after passing the end of the runway (but **not below 500** AAL), turn right onto track 095°. At **I-EMW** D2 turn right onto track 133°. At **I-EMW** D5 turn right to intercept **HON VOR** R037. Crossing **HON** D30 at **3000 or above**. Crossing **HON** D25 at **6000 or above**. At **HON** D19 turn left to intercept **DTY VOR** R337 to SAPCO. Crossing SAPCO at **FL090**.	Y53.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGNX AD 2.21 for Noise Abatement Procedures.
2 Maximum 250KIAS below FL100 unless otherwise authorised.
3 Callsign for RTF frequency used **when Instructed** after take-off 'London Control'. Occasionally aircraft may be required to communicate with 'East Midlands Radar' as instructed by ATC.
4 Report callsign, SID designator, current altitude and cleared level on first contact with 'London Control'.
5 Cruising levels will be allocated en route by 'London Control'.
6 Expect first CPDLC Data Link Authority to be EGTT.

CHANGE (4/25): SAPCO HON VOR RADIAL CORRECTION. CHART TITLE. PROCEDURE RNAV SUBSTITUTION ONLY.

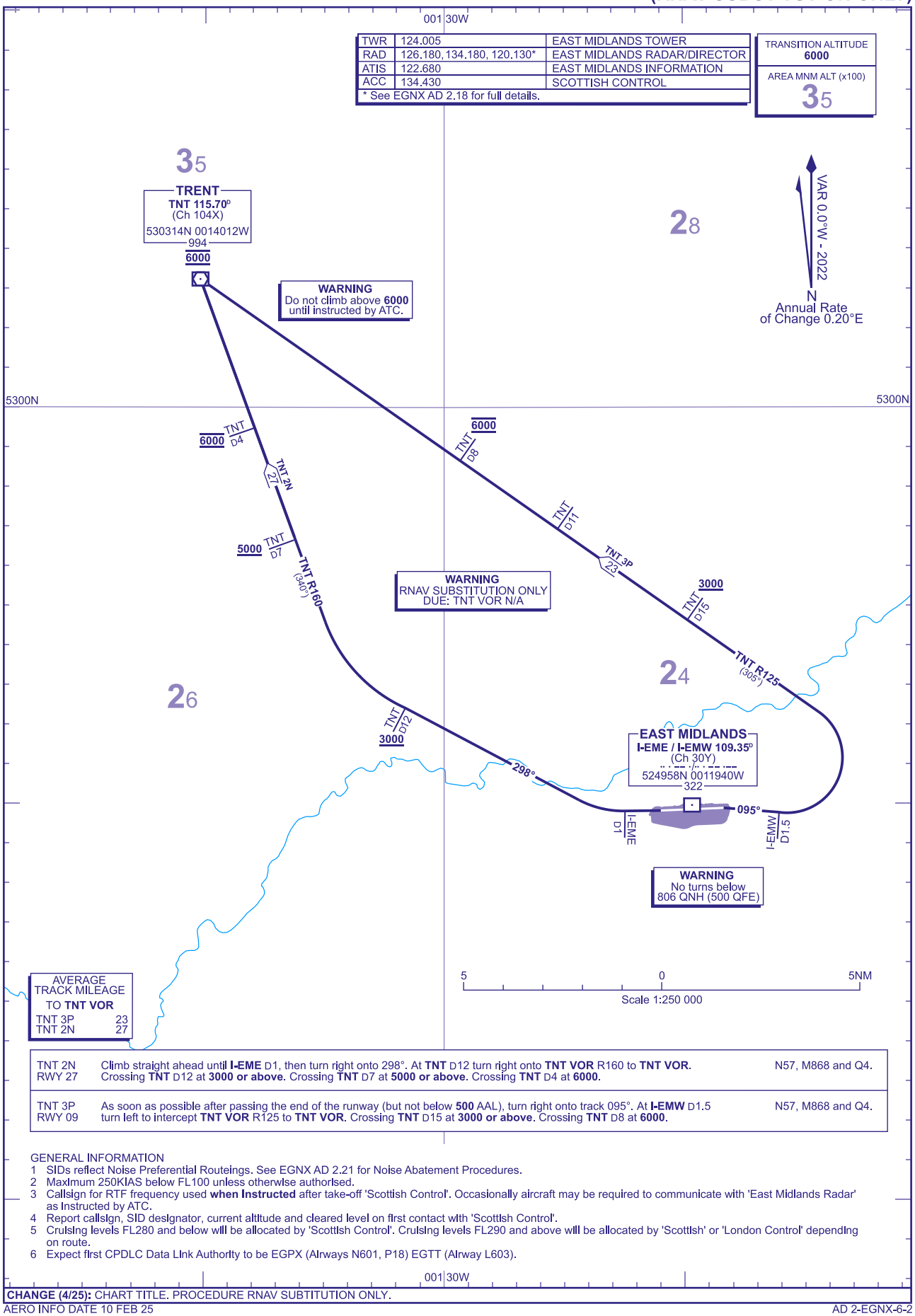
AERO INFO DATE 10 FEB 25

AD 2-EGNX-6-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

EAST MIDLANDS TRENT (RNAV SUBSTITUTION ONLY)



TNT 2N RWY 27	Climb straight ahead until **I-EME** D1, then turn right onto 298°. At **TNT** D12 turn right onto **TNT VOR** R160 to **TNT VOR**. Crossing **TNT** D12 at **3000 or above**. Crossing **TNT** D7 at **5000 or above**. Crossing **TNT** D4 at **6000**.	N57, M868 and Q4.
TNT 3P RWY 09	As soon as possible after passing the end of the runway (but not below **500** AAL), turn right onto track 095°. At **I-EMW** D1.5 turn left to intercept **TNT VOR** R125 to **TNT VOR**. Crossing **TNT** D15 at **3000 or above**. Crossing **TNT** D8 at **6000**.	N57, M868 and Q4.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGNX AD 2.21 for Noise Abatement Procedures.
2 Maximum 250KIAS below FL100 unless otherwise authorised.
3 Callsign for RTF frequency used **when Instructed** after take-off 'Scottish Control'. Occasionally aircraft may be required to communicate with 'East Midlands Radar' as Instructed by ATC.
4 Report callsign, SID designator, current altitude and cleared level on first contact with 'Scottish Control'.
5 Cruising levels FL280 and below will be allocated by 'Scottish Control'. Cruising levels FL290 and above will be allocated by 'Scottish' or 'London Control' depending on route.
6 Expect first CPDLC Data Link Authority to be EGPX (Airways N601, P18) EGTT (Airway L603).

001 30W

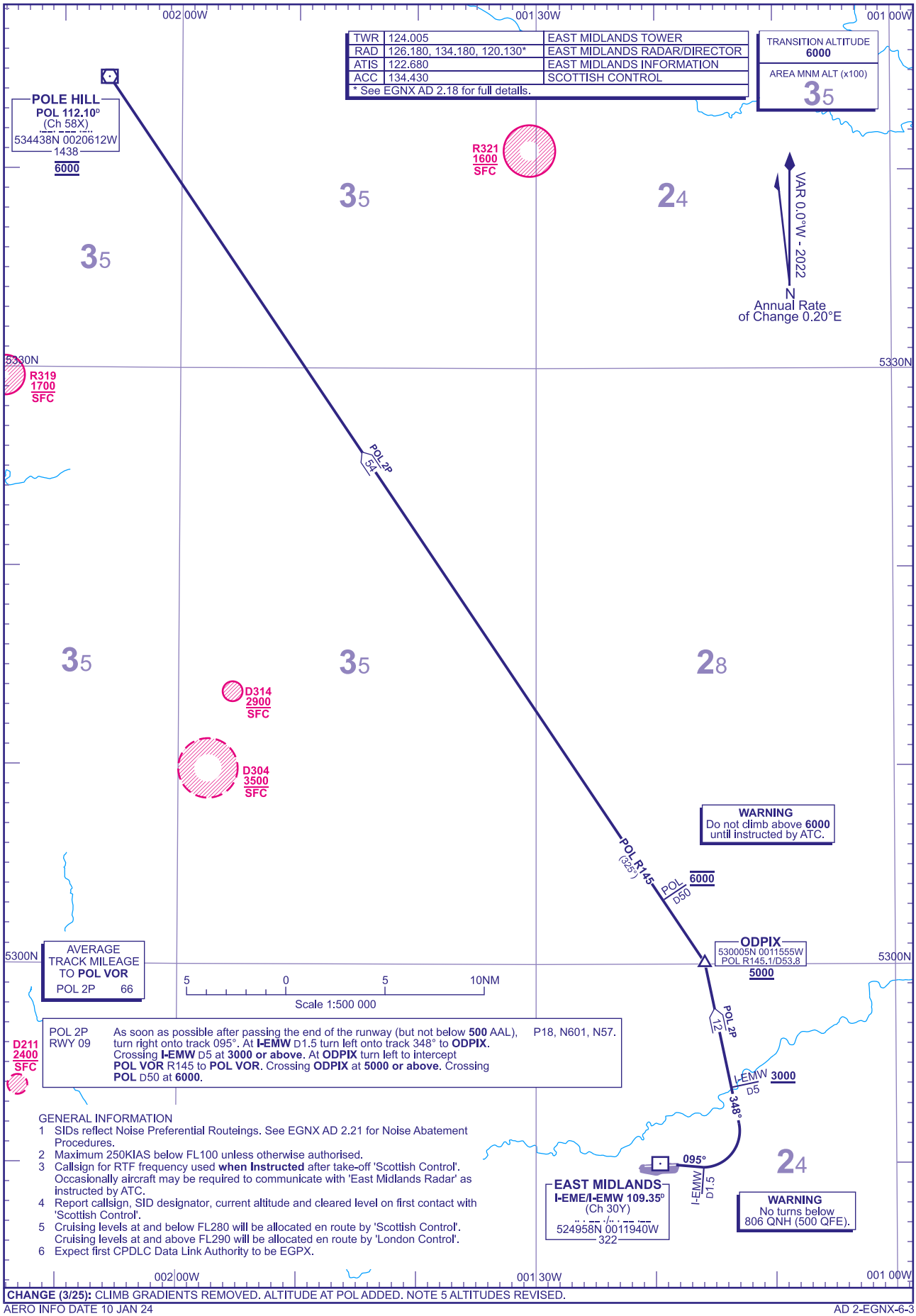
CHANGE (4/25): CHART TITLE. PROCEDURE RNAV SUBTITUTION ONLY.

AERO INFO DATE 10 FEB 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

EAST MIDLANDS
POLE HILL (Day Only - 0700-2200 local)



GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGNX AD 2.21 for Noise Abatement Procedures.
2 Maximum 250KIAS below FL100 unless otherwise authorised.
3 Callsign for RTF frequency used **when Instructed** after take-off 'Scottish Control'. Occasionally aircraft may be required to communicate with 'East Midlands Radar' as instructed by ATC.
4 Report callsign, SID designator, current altitude and cleared level on first contact with 'Scottish Control'.
5 Cruising levels at and below FL280 will be allocated en route by 'Scottish Control'. Cruising levels at and above FL290 will be allocated en route by 'London Control'.
6 Expect first CPDLC Data Link Authority to be EGPX.

CHANGE (3/25): CLIMB GRADIENTS REMOVED. ALTITUDE AT POL ADDED. NOTE 5 ALTITUDES REVISED.

AERO INFO DATE 10 JAN 24

AD 2-EGNX-6-3

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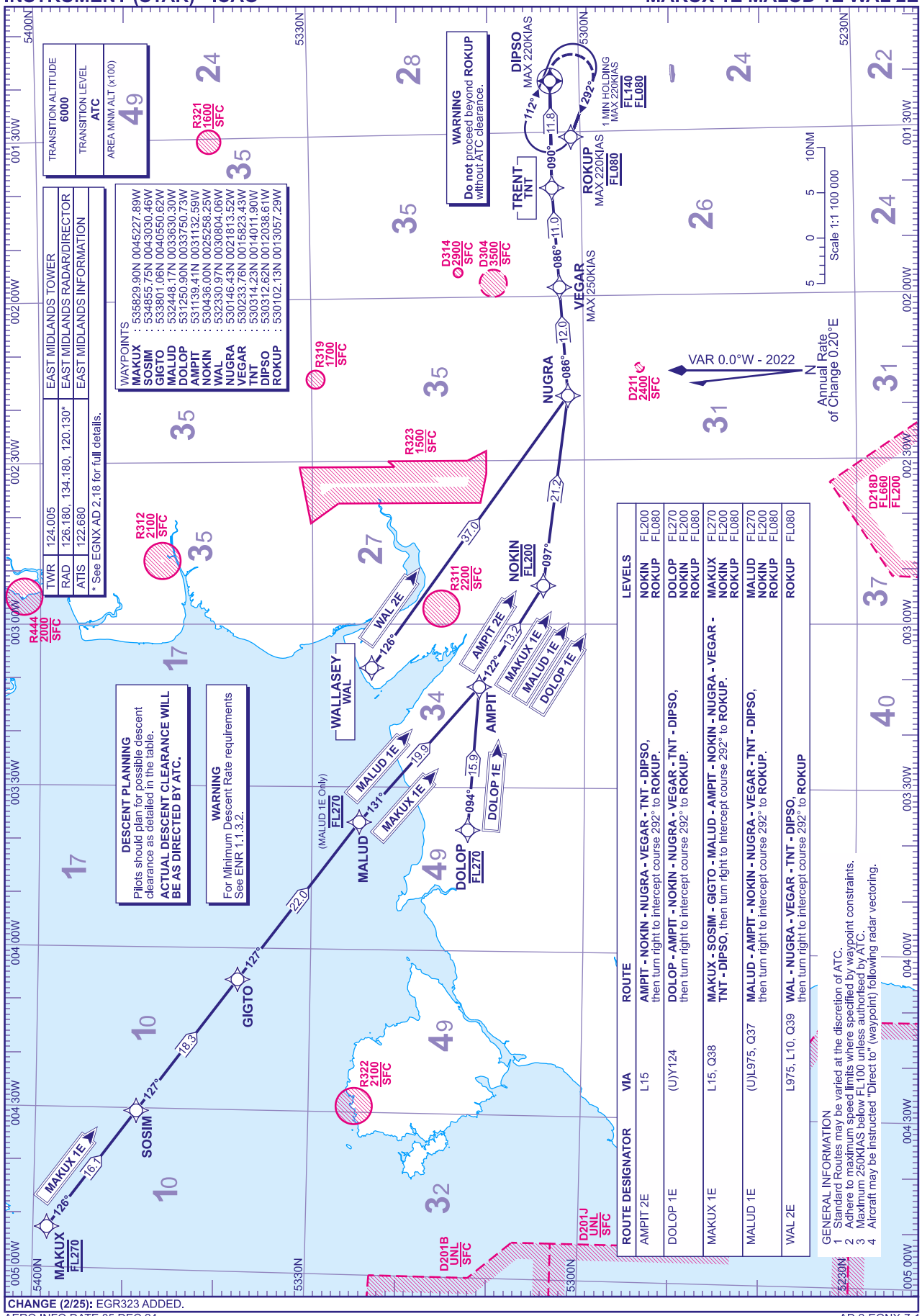
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

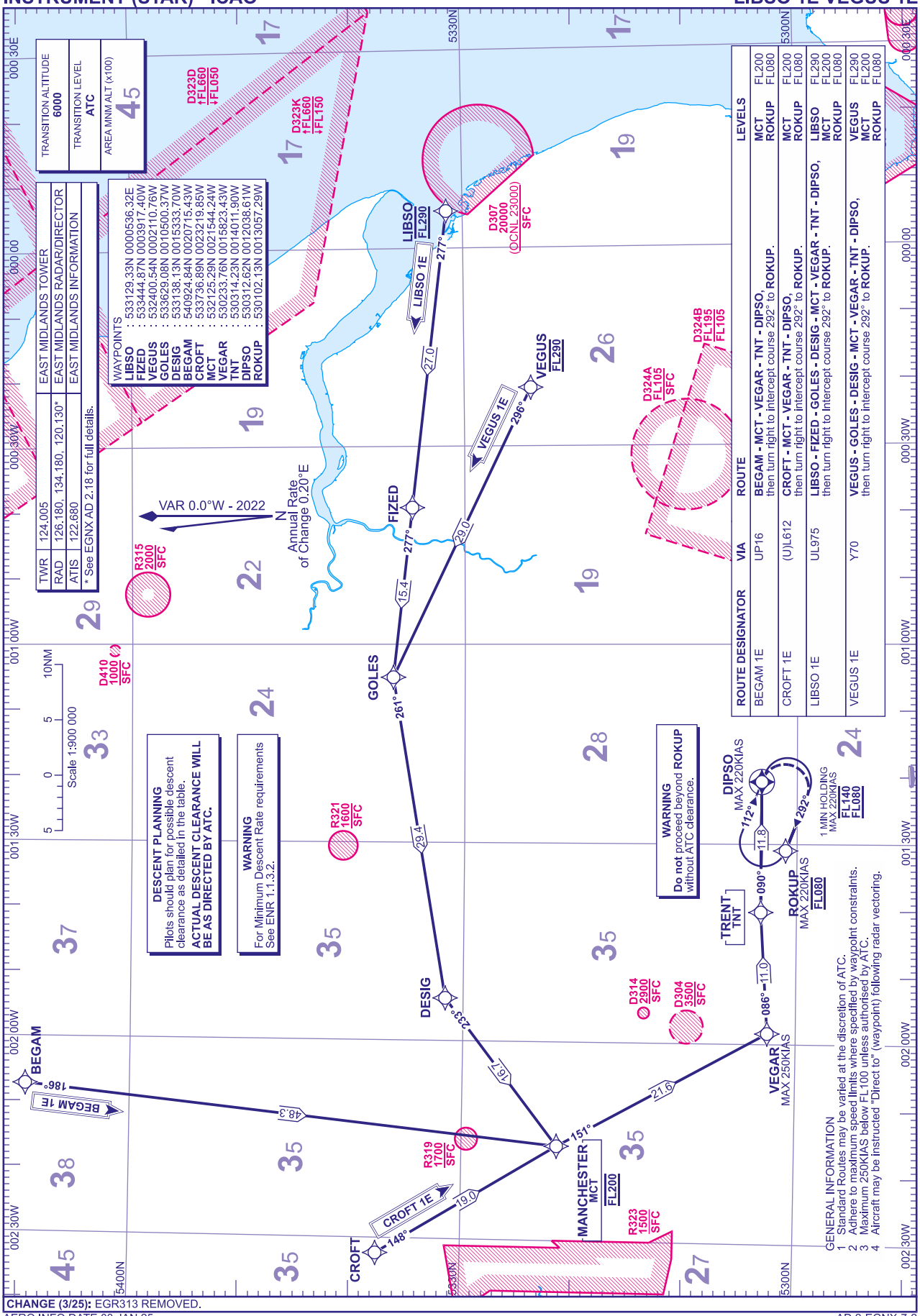
EAST MIDLANDS
AMPIT 2E DOLOP 1E MAKUX 1E MALUD 1E WAL 2E



RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EAST MIDLANDS BEGAM 1E CROFT 1E LIBSO 1E VEGUS 1E

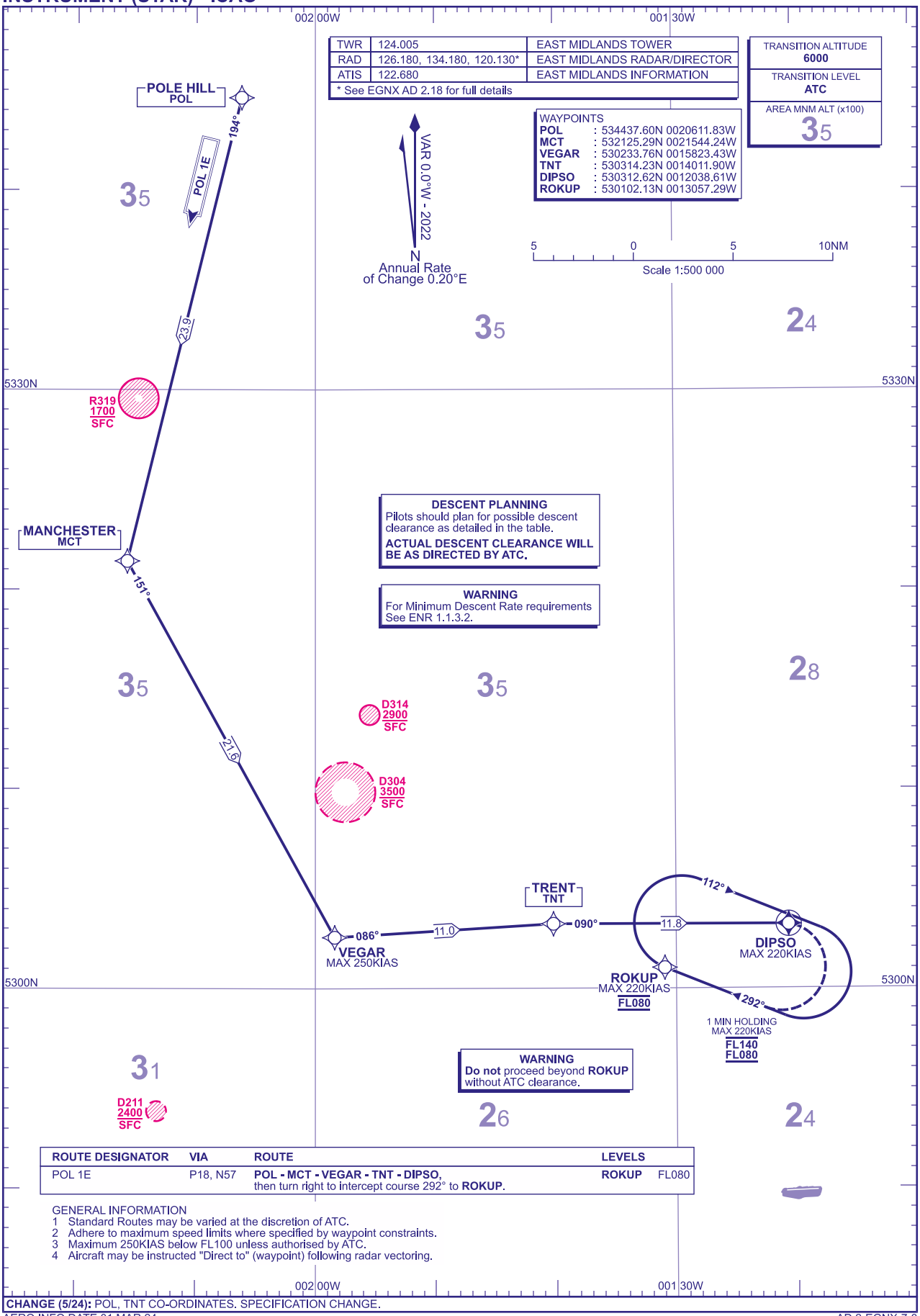


CHANGE (3/25): EGR313 REMOVED.
AERO INFO DATE 03 JAN 25
AD 2-EGNX-7-2

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EAST MIDLANDS POL 1E



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
POL 1E	P18, N57	POL - MCT - VEGAR - TNT - DIPSO, then turn right to intercept course 292° to ROKUP.	ROKUP FL080

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.

CHANGE (5/24): POL, TNT CO-ORDINATES. SPECIFICATION CHANGE.

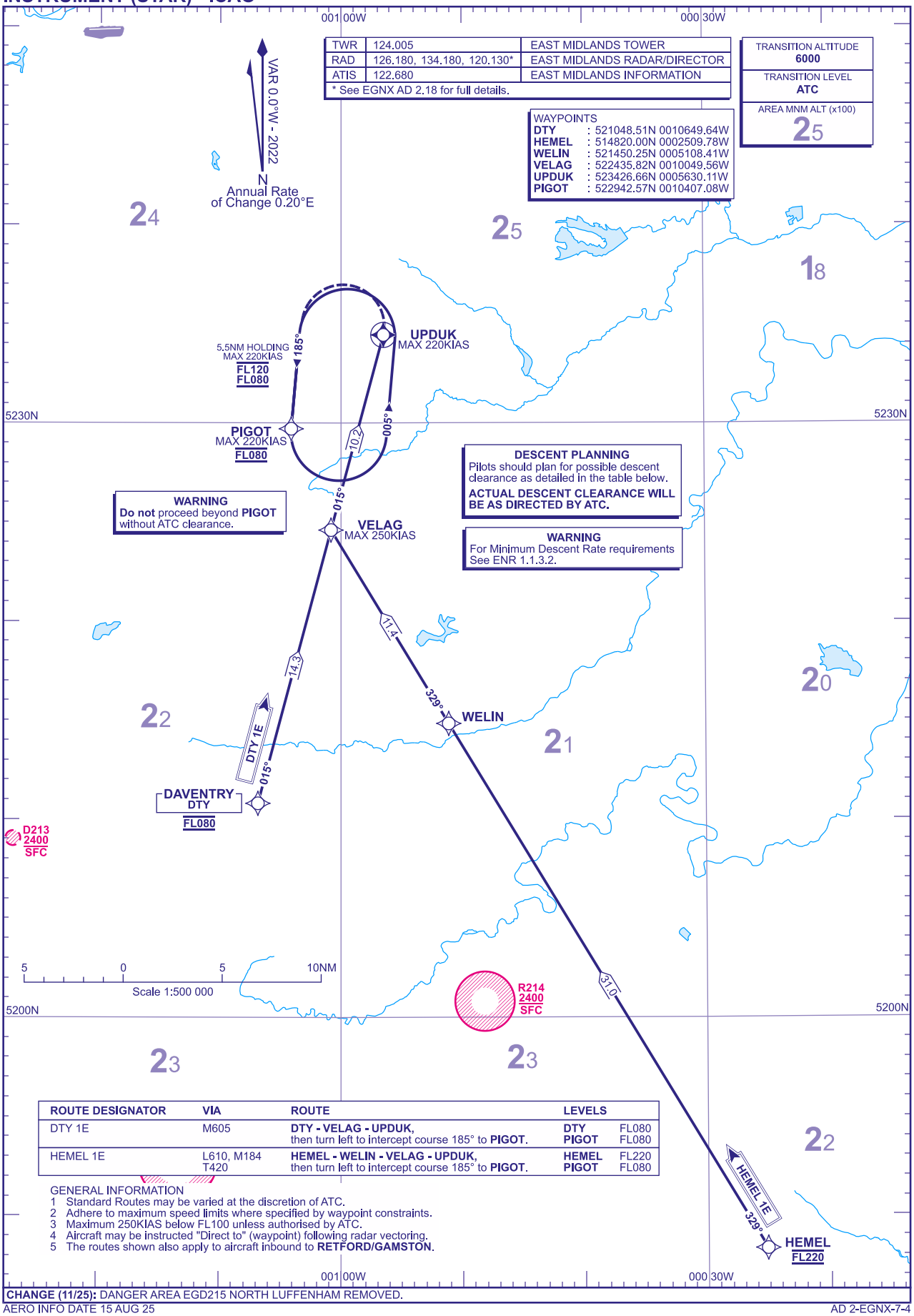
AERO INFO DATE 01 MAR 24

AD 2-EGNX-7-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EAST MIDLANDS DTY 1E HEMEL 1E



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
DTY 1E	M605	**DTY - VELAG - UPDUK,** then turn left to intercept course 185° to **PIGOT.**	**DTY** FL080 **PIGOT** FL080
HEMEL 1E	L610, M184 T420	**HEMEL - WELIN - VELAG - UPDUK,** then turn left to intercept course 185° to **PIGOT.**	**HEMEL** FL220 **PIGOT** FL080

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 The routes shown also apply to aircraft inbound to **RETFORD/GAMSTON.**

CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED.

AERO INFO DATE 15 AUG 25

Standard Instrument Arrival Coding Tables

EAST MIDLANDS AMPIT 2E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AMPIT2E	001	IF	AMPIT	531139.41N 0031132.59W	N	-	-	-	-	-	-	RNAV1
AMPIT2E	002	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	0.0	13.2	LEFT	FL200	-	RNAV1
AMPIT2E	003	TF	NUGRA	530146.43N 0021813.52W	N	097° (097.5°)	0.0	21.2	LEFT	-	-	RNAV1
AMPIT2E	004	TF	VEGAR	530233.76N 0015823.43W	N	086° (086.1°)	0.0	12.0	-	-	-250	RNAV1
AMPIT2E	005	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
AMPIT2E	006	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
AMPIT2E	007	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

EAST MIDLANDS DOLOP 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DOLOP1E	001	IF	DOLOP	531250.90N 0033750.73W	N	-	-	-	-	FL270	-	RNAV1
DOLOP1E	002	TF	AMPIT	531139.41N 0031132.59W	N	094° (094.1°)	0.0	15.9	RIGHT	-	-	RNAV1
DOLOP1E	003	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	0.0	13.2	LEFT	FL200	-	RNAV1
DOLOP1E	004	TF	NUGRA	530146.43N 0021813.52W	N	097° (097.5°)	0.0	21.2	LEFT	-	-	RNAV1
DOLOP1E	005	TF	VEGAR	530233.76N 0015823.43W	N	086° (086.1°)	0.0	12.0	-	-	-250	RNAV1
DOLOP1E	006	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
DOLOP1E	007	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
DOLOP1E	008	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

EAST MIDLANDS MAKUX 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MAKUX1E	001	IF	MAKUX	535829.90N 0045227.89W	N	-	-	-	-	FL270	-	RNAV1
MAKUX1E	002	TF	SOSIM	534855.75N 0043030.46W	N	126° (126.3°)	0.0	16.1	-	-	-	RNAV1
MAKUX1E	003	TF	GIGTO	533801.06N 0040550.62W	N	127° (126.6°)	0.0	18.3	-	-	-	RNAV1
MAKUX1E	004	TF	MALUD	532448.17N 0033630.30W	N	127° (126.9°)	0.0	22.0	RIGHT	-	-	RNAV1
MAKUX1E	005	TF	AMPIT	531139.41N 0031132.59W	N	131° (131.2°)	0.0	19.9	LEFT	-	-	RNAV1
MAKUX1E	006	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	0.0	13.2	LEFT	FL200	-	RNAV1
MAKUX1E	007	TF	NUGRA	530146.43N 0021813.52W	N	097° (097.5°)	0.0	21.2	LEFT	-	-	RNAV1
MAKUX1E	008	TF	VEGAR	530233.76N 0015823.43W	N	086° (086.1°)	0.0	12.0	-	-	-250	RNAV1
MAKUX1E	009	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
MAKUX1E	010	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
MAKUX1E	011	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

CHANGE (5/24): TNT CO-ORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 21 FEB 24

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Standard Instrument Arrival Coding Tables

EAST MIDLANDS MALUD 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MALUD1E	001	IF	MALUD	532448.17N 0033630.30W	N	-	-	-	-	FL270	-	RNAV1
MALUD1E	002	TF	AMPIT	531139.41N 0031132.59W	N	131° (131.2°)	0.0	19.9	LEFT	-	-	RNAV1
MALUD1E	003	TF	NOKIN	530436.00N 0025258.25W	N	122° (122.2°)	0.0	13.2	LEFT	FL200	-	RNAV1
MALUD1E	004	TF	NUGRA	530146.43N 0021813.52W	N	097° (097.5°)	0.0	21.2	LEFT	-	-	RNAV1
MALUD1E	005	TF	VEGAR	530233.76N 0015823.43W	N	086° (086.1°)	0.0	12.0	-	-	-250	RNAV1
MALUD1E	006	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
MALUD1E	007	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
MALUD1E	008	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

EAST MIDLANDS WAL 2E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WAL2E	001	IF	WAL	532330.97N 0030804.06W	N	-	-	-	-	-	-	RNAV1
WAL2E	002	TF	NUGRA	530146.43N 0021813.52W	N	126° (125.7°)	0.0	37.0	LEFT	-	-	RNAV1
WAL2E	003	TF	VEGAR	530233.76N 0015823.43W	N	086° (086.1°)	0.0	12.0	-	-	-250	RNAV1
WAL2E	004	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
WAL2E	005	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
WAL2E	006	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

EAST MIDLANDS BEGAM 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BEGAM1E	001	IF	BEGAM	540924.84N 0020715.43W	N	-	-	-	-	-	-	RNAV1
BEGAM1E	002	TF	MCT	532125.29N 0021544.24W	N	186° (186.0°)	0.0	48.3	LEFT	FL200	-	RNAV1
BEGAM1E	003	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	0.0	21.6	LEFT	-	-250	RNAV1
BEGAM1E	004	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
BEGAM1E	005	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
BEGAM1E	006	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

CHANGE (5/24): TNT CO-ORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 21 FEB 24

Standard Instrument Arrival Coding Tables

EAST MIDLANDS CROFT 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CROFT1E	001	IF	CROFT	533736.89N 0023219.85W	N	-	-	-	-	-	-	RNAV1
CROFT1E	002	TF	MCT	532125.29N 0021544.24W	N	148° (148.5°)	0.0	19.0	-	FL200	-	RNAV1
CROFT1E	003	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	0.0	21.6	LEFT	-	-250	RNAV1
CROFT1E	004	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
CROFT1E	005	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
CROFT1E	006	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

EAST MIDLANDS LIBSO 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LIBSO1E	001	IF	LIBSO	533129.33N 0000536.32E	N	-	-	-	-	FL290	-	RNAV1
LIBSO1E	002	TF	FIZED	533444.87N 0003917.40W	N	277° (277.3°)	0.0	27.0	-	-	-	RNAV1
LIBSO1E	003	TF	GOLES	533629.08N 0010500.37W	N	277° (276.7°)	0.0	15.4	LEFT	-	-	RNAV1
LIBSO1E	004	TF	DESIG	533138.13N 0015333.70W	N	261° (260.8°)	0.0	29.4	LEFT	-	-	RNAV1
LIBSO1E	005	TF	MCT	532125.29N 0021544.24W	N	233° (232.5°)	0.0	16.7	LEFT	FL200	-	RNAV1
LIBSO1E	006	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	0.0	21.6	LEFT	-	-250	RNAV1
LIBSO1E	007	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
LIBSO1E	008	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
LIBSO1E	009	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

EAST MIDLANDS VEGUS 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
VEGUS1E	001	IF	VEGUS	532400.54N 0002110.76W	N	-	-	-	-	FL290	-	RNAV1
VEGUS1E	002	TF	GOLES	533629.08N 0010500.37W	N	296° (295.8°)	0.0	29.0	LEFT	-	-	RNAV1
VEGUS1E	003	TF	DESIG	533138.13N 0015333.70W	N	261° (260.8°)	0.0	29.4	LEFT	-	-	RNAV1
VEGUS1E	004	TF	MCT	532125.29N 0021544.24W	N	233° (232.5°)	0.0	16.7	LEFT	FL200	-	RNAV1
VEGUS1E	005	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	0.0	21.6	LEFT	-	-250	RNAV1
VEGUS1E	006	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
VEGUS1E	007	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
VEGUS1E	008	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

CHANGE (5/24): TNT CO-ORDINATES. SPECIFICATION CHANGES.
AERO INFO DATE 01 MAR 24

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Standard Instrument Arrival Coding Tables

EAST MIDLANDS POL 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
POL1E	001	IF	POL	534437.60N 0020611.83W	N	-	-	-	-	-	-	RNAV1
POL1E	002	TF	MCT	532125.29N 0021544.24W	N	194° (193.8°)	0.0	23.9	LEFT	-	-	RNAV1
POL1E	003	TF	VEGAR	530233.76N 0015823.43W	N	151° (151.0°)	0.0	21.6	LEFT	-	-250	RNAV1
POL1E	004	TF	TNT	530314.23N 0014011.90W	N	086° (086.4°)	0.0	11.0	RIGHT	-	-	RNAV1
POL1E	005	TF	DIPSO	530312.62N 0012038.61W	Y	090° (090.0°)	0.0	11.8	RIGHT	-	-220	RNAV1
POL1E	006	CF	ROKUP	530102.13N 0013057.29W	N	292° (291.5°)	0.0	-	-	FL080	-220	RNAV1

EAST MIDLANDS DTY 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DTY1E	001	IF	DTY	521048.51N 0010649.64W	N	-	-	-	-	FL080	-	RNAV5
DTY1E	002	TF	VELAG	522435.82N 0010049.56W	N	015° (014.9°)	0.0	14.3	-	-	-250	RNAV5
DTY1E	003	TF	UPDUK	523426.66N 0005630.11W	Y	015° (015.0°)	0.0	10.2	LEFT	-	-220	RNAV5
DTY1E	004	CF	PIGOT	522942.57N 0010407.08W	N	185° (185.0°)	0.0	-	-	FL080	-220	RNAV5

EAST MIDLANDS HEMEL 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HEMEL1E	001	IF	HEMEL	514820.00N 0002509.78W	N	-	-	-	-	FL220	-	RNAV5
HEMEL1E	002	TF	WELIN	521450.25N 0005108.41W	N	329° (329.0°)	0.0	31.0	-	-	-	RNAV5
HEMEL1E	003	TF	VELAG	522435.82N 0010049.56W	N	329° (328.8°)	0.0	11.4	RIGHT	-	-250	RNAV5
HEMEL1E	004	TF	UPDUK	523426.66N 0005630.11W	Y	015° (015.0°)	0.0	10.2	LEFT	-	-220	RNAV5
HEMEL1E	005	CF	PIGOT	522942.57N 0010407.08W	N	185° (185.0°)	0.0	-	-	FL080	-220	RNAV5

CHANGE (5/24): POL, TNT CO-ORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 21 FEB 24

RNAV Hold Coding Tables

EAST MIDLANDS ROKUP Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ROKUP	-	-	ROKUP	530102.13N 0013057.29W	Y	292° (291.5°)	0.0	1 MIN	RIGHT	-FL140 +FL080	-220	RNAV1

EAST MIDLANDS PIGOT Hold

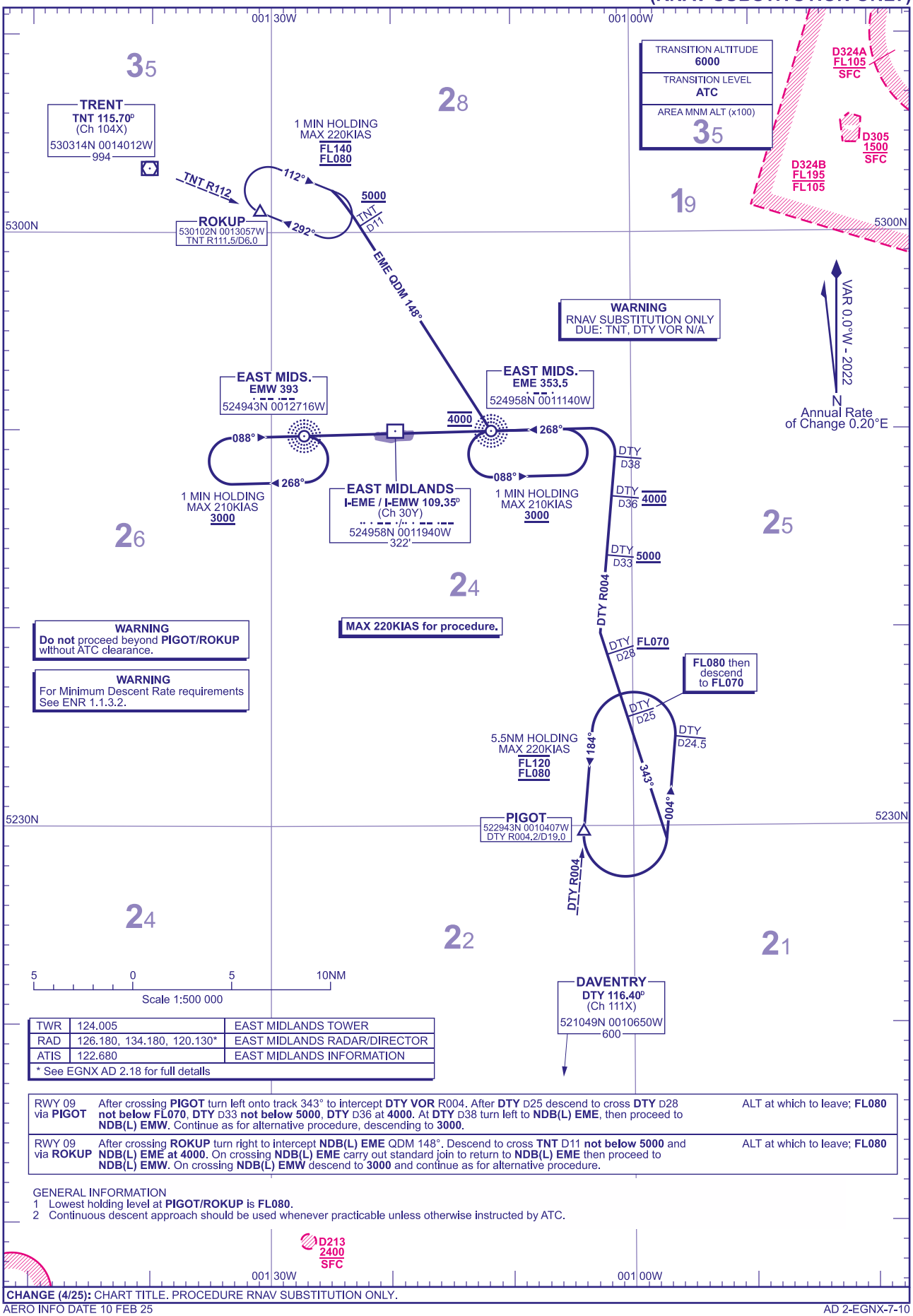
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PIGOT	-	-	PIGOT	522942.57N 0010407.08W	Y	185° (185.0°)	0.0	5.5	LEFT	-FL120 +FL080	-220	RNAV5

CHANGE (5/24): SPECIFICATION CHANGE.
AERO INFO DATE 21 FEB 24

INITIAL APPROACH PROCEDURES
ILS/DME RWY 09

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EAST MIDLANDS
via PIGOT/ROKUP
(RNAV SUBSTITUTION ONLY)



TWR	124.005	EAST MIDLANDS TOWER
RAD	126.180, 134.180, 120.130*	EAST MIDLANDS RADAR/DIRECTOR
ATIS	122.680	EAST MIDLANDS INFORMATION
* See EGNX AD 2.18 for full details		

RWY 09 via **PIGOT**	After crossing **PIGOT** turn left onto track 343° to intercept **DTY VOR** R004. After **DTY** D25 descend to cross **DTY** D28 **not below FL070**, **DTY** D33 **not below 5000**, **DTY** D36 at **4000**. At **DTY** D38 turn left to **NDB(L) EME**, then proceed to **NDB(L) EMW**. Continue as for alternative procedure, descending to **3000**.	ALT at which to leave; **FL080**
RWY 09 via **ROKUP**	After crossing **ROKUP** turn right to intercept **NDB(L) EME** QDM 148°. Descend to cross **TNT** D11 **not below 5000** and **NDB(L) EME at 4000**. On crossing **NDB(L) EME** carry out standard join to return to **NDB(L) EME** then proceed to **NDB(L) EMW**. On crossing **NDB(L) EMW** descend to **3000** and continue as for alternative procedure.	ALT at which to leave; **FL080**

GENERAL INFORMATION
1 Lowest holding level at **PIGOT/ROKUP** is **FL080**.
2 Continuous descent approach should be used whenever practicable unless otherwise instructed by ATC.

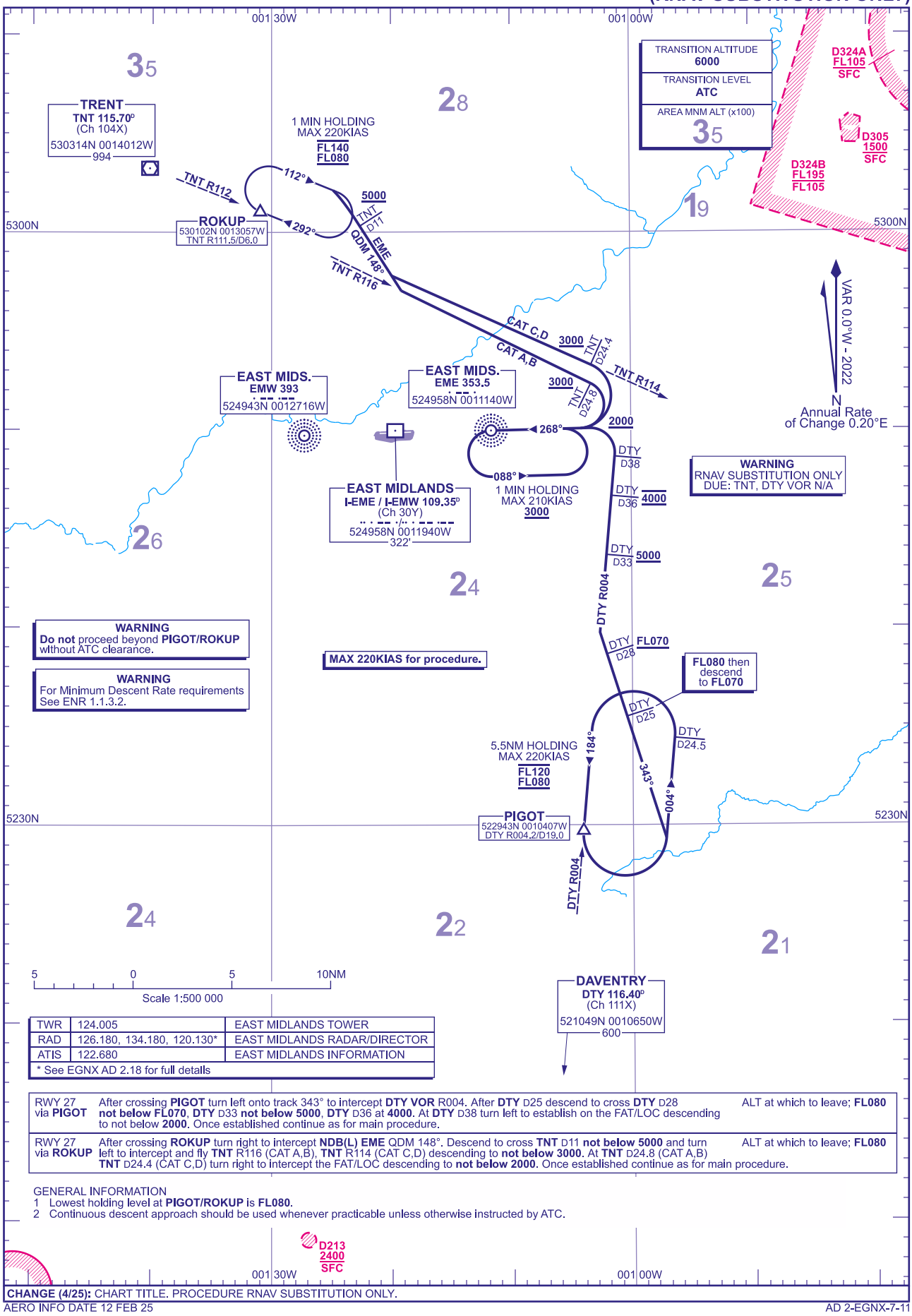
CHANGE (4/25): CHART TITLE. PROCEDURE RNAV SUBSTITUTION ONLY.

AERO INFO DATE 10 FEB 25

INITIAL APPROACH PROCEDURES
ILS/DME RWY 27

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EAST MIDLANDS
via PIGOT/ROKUP
(RNAV SUBSTITUTION ONLY)



TWR	124.005	EAST MIDLANDS TOWER
RAD	126.180, 134.180, 120.130*	EAST MIDLANDS RADAR/DIRECTOR
ATIS	122.680	EAST MIDLANDS INFORMATION

* See EGNX AD 2.18 for full details

RWY 27 via **PIGOT**	After crossing **PIGOT** turn left onto track 343° to intercept **DTY VOR** R004. After **DTY** D25 descend to cross **DTY** D28 **not below FL070**, **DTY** D33 **not below 5000**, **DTY** D36 at **4000**. At **DTY** D38 turn left to establish on the FAT/LOC descending to not below **2000**. Once established continue as for main procedure.	ALT at which to leave; **FL080**
RWY 27 via **ROKUP**	After crossing **ROKUP** turn right to intercept **NDB(L) EME** QDM 148°. Descend to cross **TNT** D11 **not below 5000** and turn left to intercept and fly **TNT** R116 (CAT A,B), **TNT** R114 (CAT C,D) descending to **not below 3000**. At **TNT** D24.8 (CAT A,B) **TNT** D24.4 (CAT C,D) turn right to intercept the FAT/LOC descending to **not below 2000**. Once established continue as for main procedure.	ALT at which to leave; **FL080**

GENERAL INFORMATION
1 Lowest holding level at **PIGOT/ROKUP** is **FL080**.
2 Continuous descent approach should be used whenever practicable unless otherwise instructed by ATC.

CHANGE (4/25): CHART TITLE. PROCEDURE RNAV SUBSTITUTION ONLY.

AERO INFO DATE 12 FEB 25

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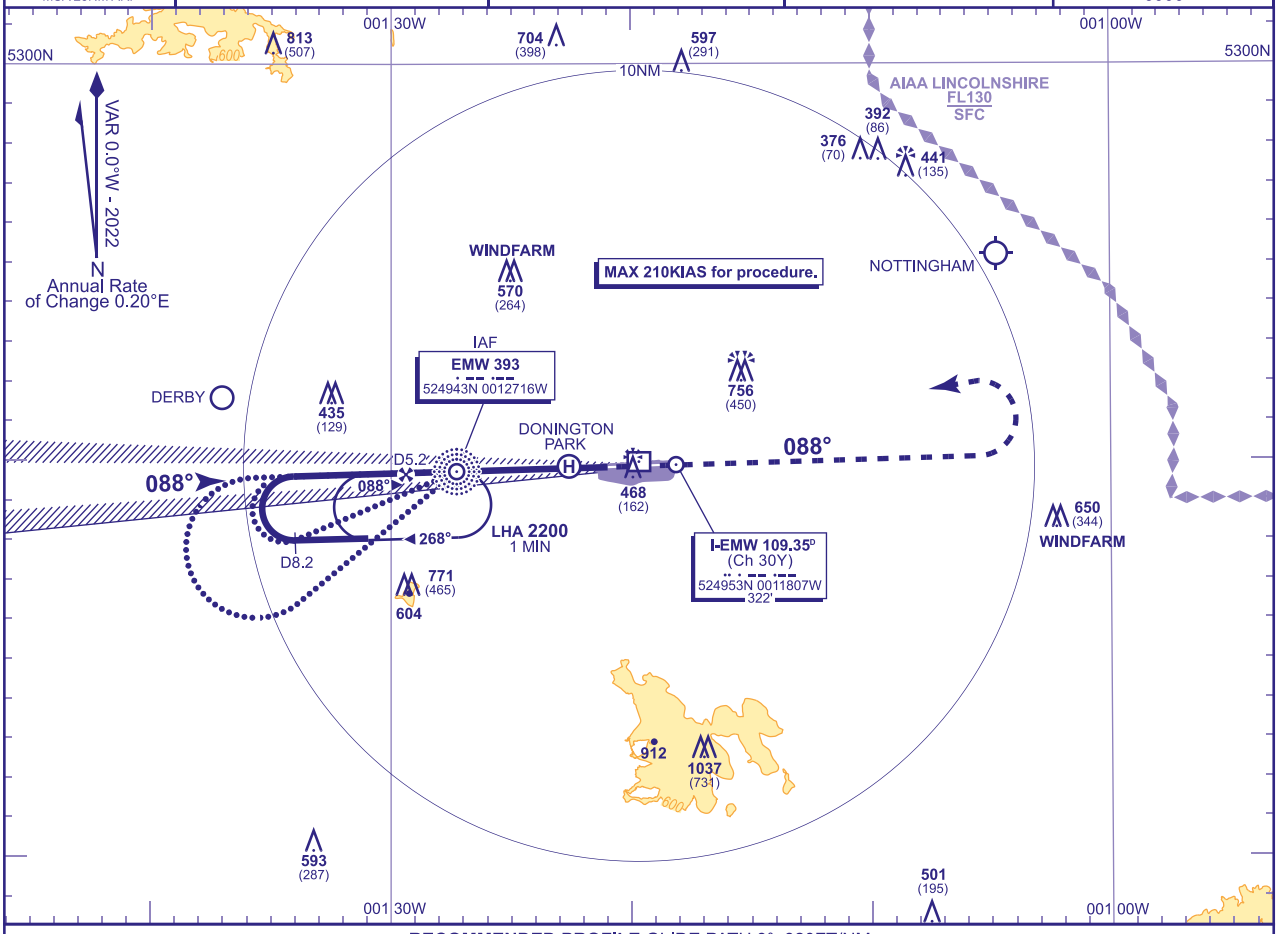
INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS ILS/DME/NDB(L) RWY 09
(ACFT CAT A,B,C,D)

MSA 25NM ARP

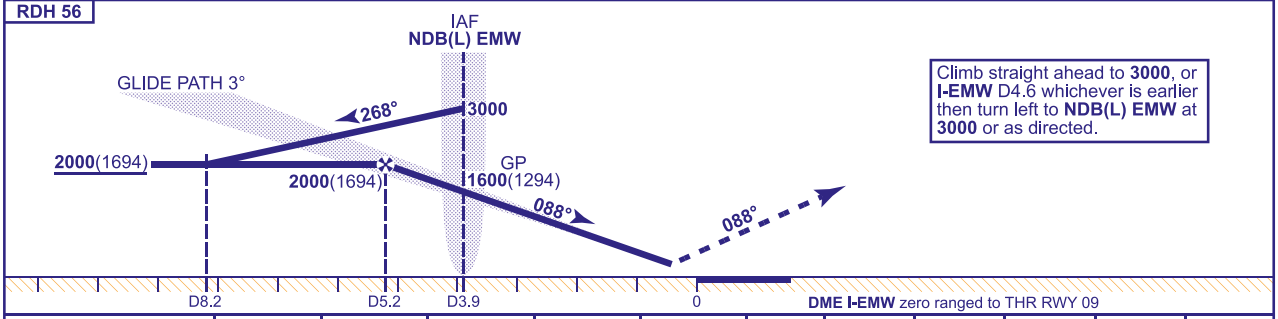
RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306	
	120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	306	
TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION		
	121.905	EAST MIDLANDS GROUND	1037 AMSL (731) (ABOVE THR)		
ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE	6000



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-EMW	5	4	3	2	1
ALT(HGT)	**1960**(1654)	**1640**(1334)	**1320**(1014)	**1000**(694)	**680**(374)

RDH 56



Climb straight ahead to **3000**, or **I-EMW** D4.6 whichever is earlier then turn left to **NDB(L) EMW** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**462**(156)	**472**(166)	**484**(178)	**498**(192)
VM(C)OCA (OCH AAL)	Total Area	**770**(464)	**800**(494)	**1160**(854)	**1160**(854)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
From overhead NDB(L) EMW **not below 3000**(2694) fly outbound on NDB(L) EMW QDR 248° (CAT A,B); NDB(L) EMW QDR 231° (CAT C,D), descending to **not below 2000**(1694). At I-EMW DME 8.2 baseturn right to intercept LOC. Once established on the LOC descend on the GP from the FAP (nominal I-EMW D5.2) to DH.

NOTE **1** Lowest altitude to commence procedure from hold is **3000**.
2 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (3/25): MSA REVISED. D1 GP CHECK HEIGHT REMOVED. MINIMA REVISED. NO DME PROCEDURE NOW ON SEPARATE CHART.

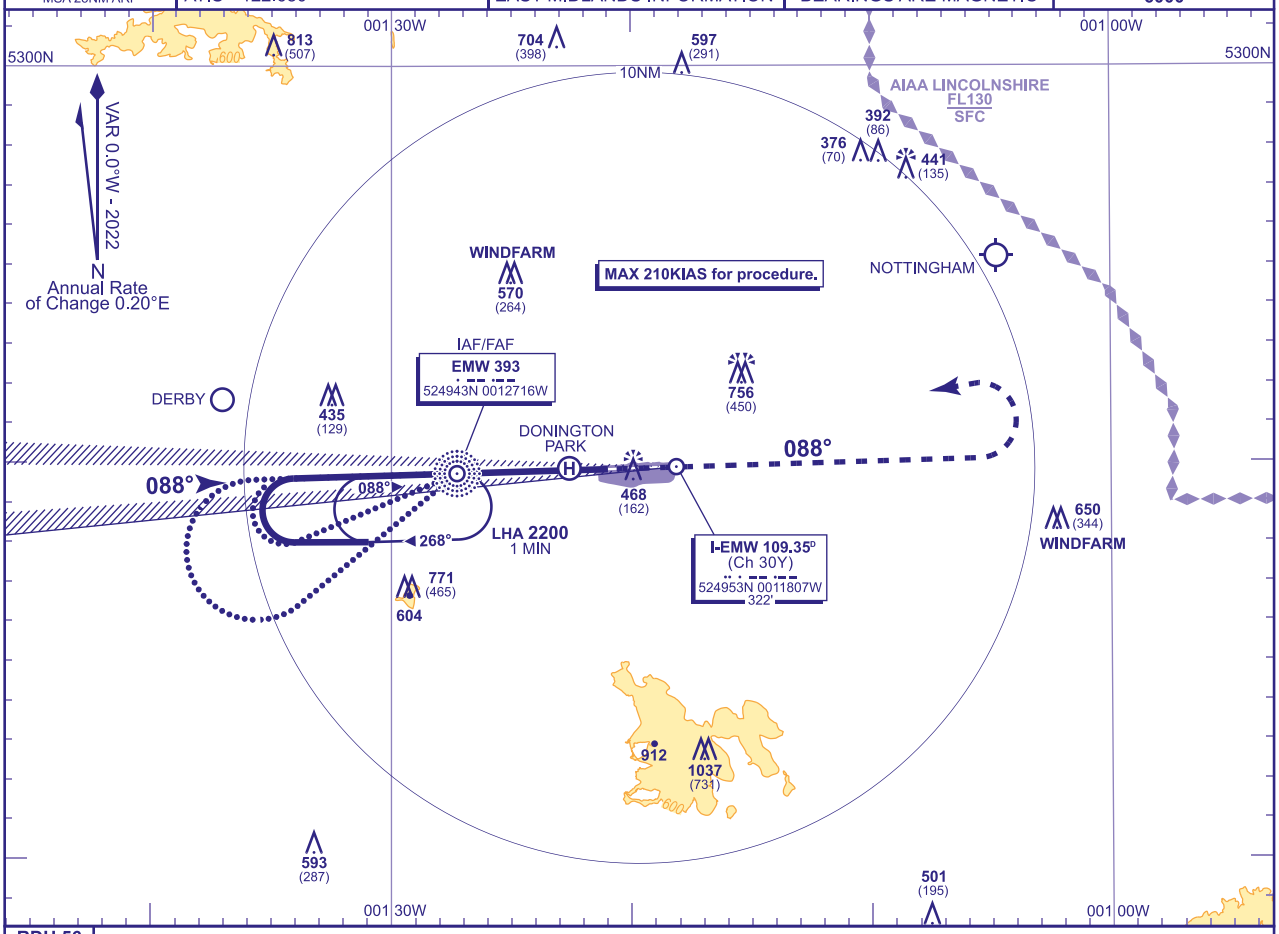
AERO INFO DATE 14 JAN 25
AD 2-EGNX-8-1

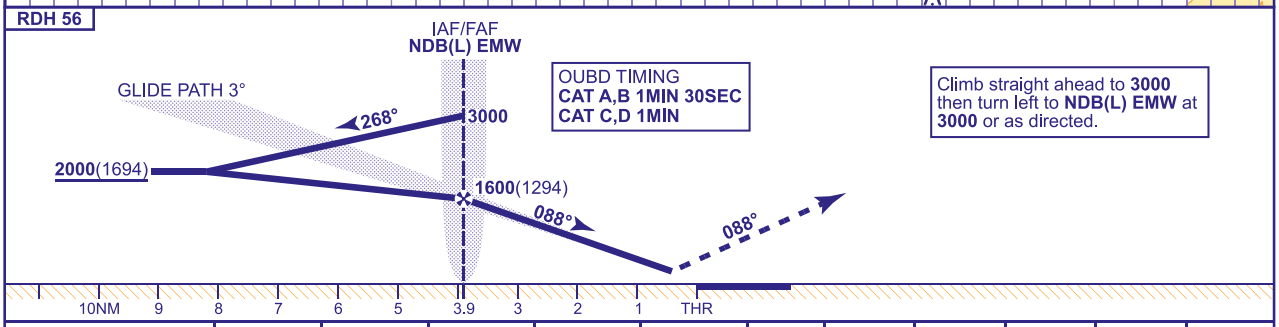
INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS
ILS/NDB(L)
RWY 09
(ACFT CAT A,B,C,D)

MSA 25NM ARP

RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306	TRANSITION ALTITUDE 6000
	120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	306	
TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION 1037 AMSL (731) (ABOVE THR)		
	121.905	EAST MIDLANDS GROUND			
ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC		





Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	462(156)	472(166)	484(178)	498(192)
VM(C)OCA (OCH AAL)	Total Area	770(464)	800(494)	1160(854)	1160(854)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
Notify ATC. Fly outbound leg of baseturn on NDB(L) EMW QDR 248° for 1MIN 45SEC (CAT A,B), NDB(L) EMW QDR 231° for 1MIN 15SEC (CAT C,D) descending to not below **2000**(1694), then turn right to establish on the LOC. MAX 210KIAS.

NOTE
1 Aircraft unable to receive DME I-EMW notify ATC.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

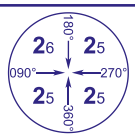
CHANGE (3/25): NEW CHART.

AERO INFO DATE 14 JAN 25
AD 2-EGNX-8-2

INSTRUMENT APPROACH CHART - ICAO

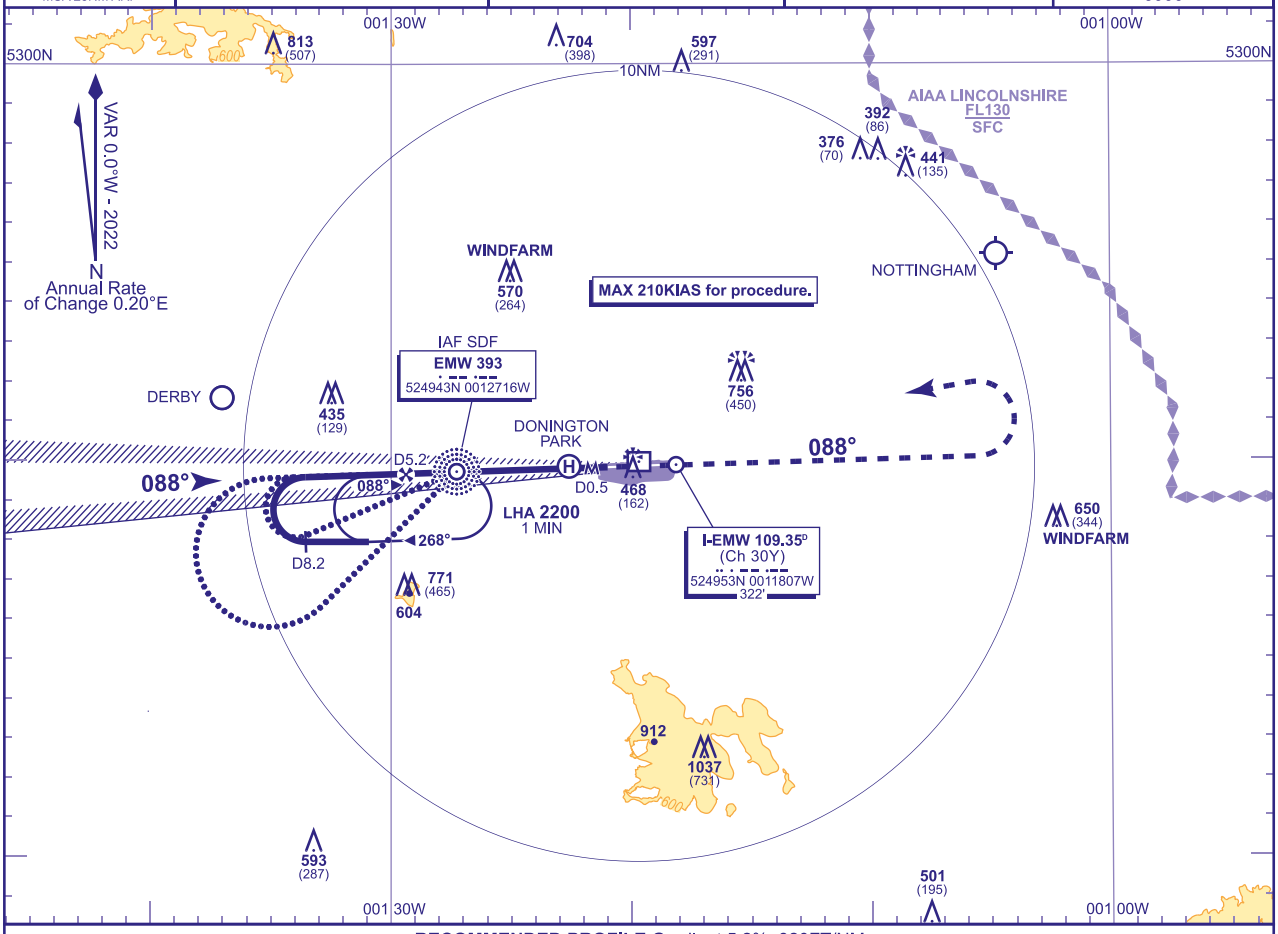
EAST MIDLANDS LOC/DME/NDB(L) RWY 09

(ACFT CAT A,B,C,D)



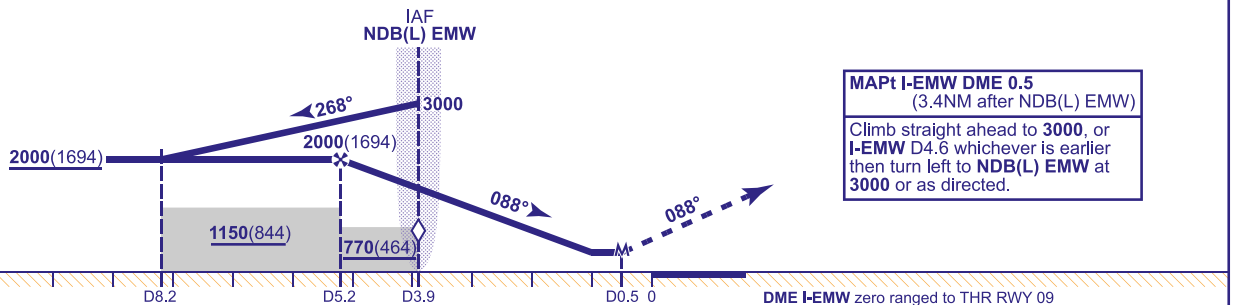
MSA 25NM ARP

RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306	
	120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	306	
TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION		
	121.905	EAST MIDLANDS GROUND	1037 AMSL (731) (ABOVE THR)		
ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-EMW	5	4	3.9 (SDF)	3	2	1
ALT (HGT)	1960 (1654)	1640 (1334)	1600 (1294)	1320 (1014)	1000 (694)	680 (374)



MAPt I-EMW DME 0.5
(3.4NM after NDB(L) EMW)

Climb straight ahead to **3000**, or **I-EMW** D4.6 whichever is earlier then turn left to **NDB(L) EMW** at **3000** or as directed.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	650 (344)	650 (344)	650 (344)	650 (344)		FT/MIN	850	740	640	530	420
VM(C)OCA (OCH AAL)	Total Area	770 (464)	800 (494)	1160 (854)	1160 (854)							

ALTERNATIVE PROCEDURE
From overhead NDB(L) EMW **not below 3000**(2694) fly outbound on NDB(L) EMW QDR 248° (CAT A,B); NDB(L) EMW QDR 231° (CAT C,D), descending to **not below 2000**(1694). At I-EMW DME 8.2 baseturn right to intercept LOC. Once established on the LOC continue as for main procedure.

NOTE **1** Lowest altitude to commence procedure from hold is **3000**.
2 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (3/25): PAGE NUMBER REVISED. MINIMA REVISED. MSA, MOCA, SDF REVISED. TIMING TABLE REMOVED. NO DME PROCEDURE NOW ON SEPARATE CHART.

AERO INFO DATE 10 JAN 25
AD 2-EGNX-8-3

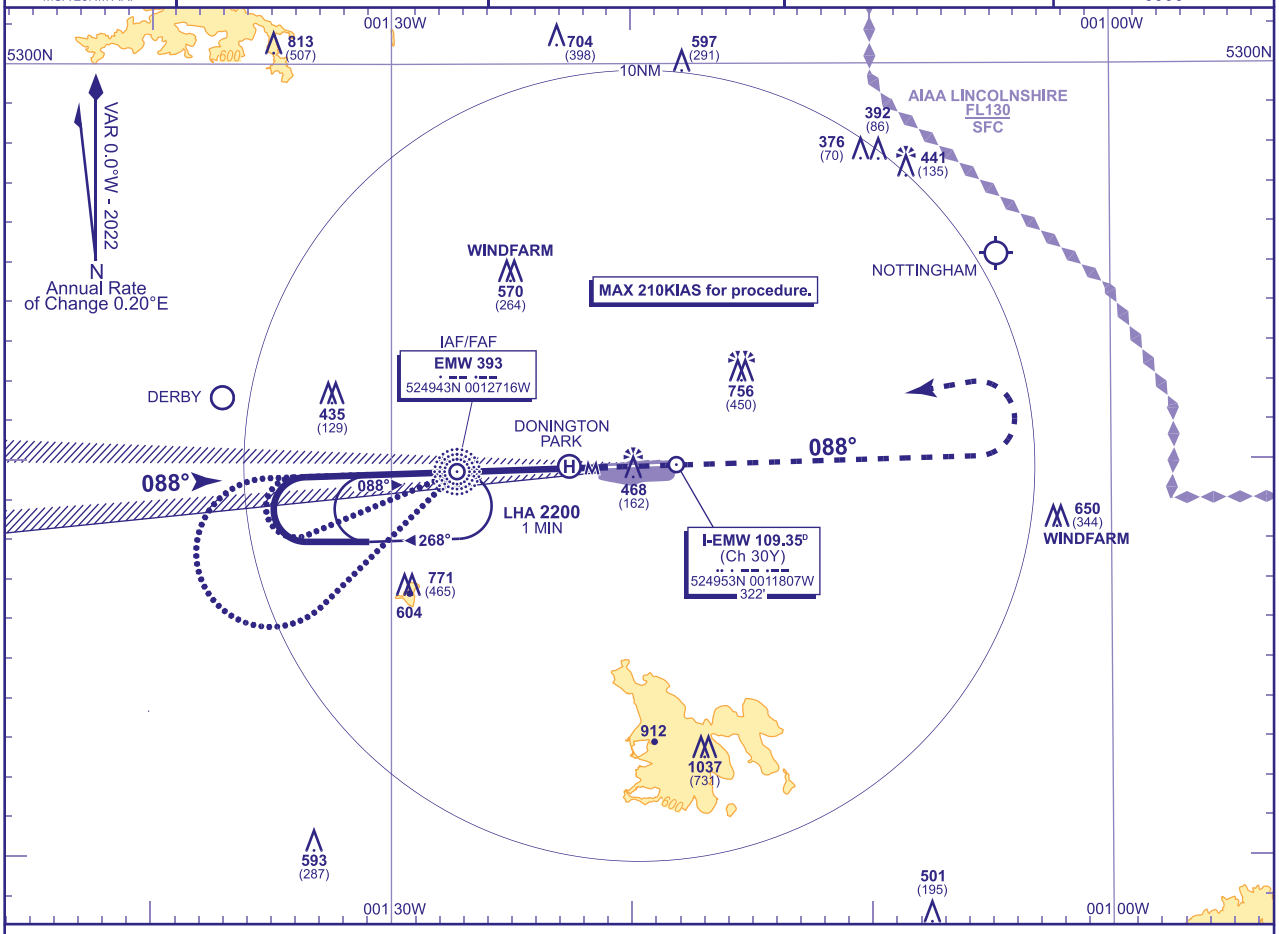
INSTRUMENT APPROACH CHART - ICAO

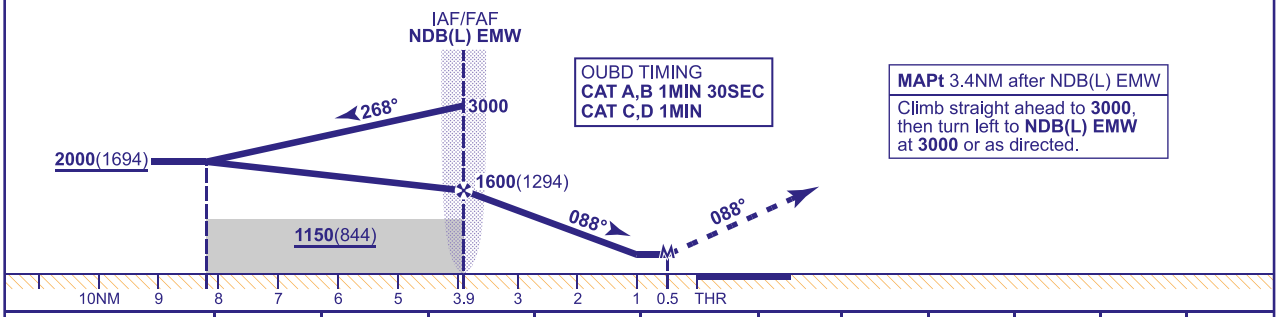
EAST MIDLANDS LOC/NDB(L) RWY 09

(ACFT CAT A,B,C,D)

MSA 25NM ARP	RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306
		120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	306
	TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION	
		121.905	EAST MIDLANDS GROUND	1037 AMSL (731) (ABOVE THR)	
	ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 6000





Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	670(364)	670(364)	670(364)	670(364)		FT/MIN	850	740	640	530	420
VM(C)OCA (OCH AAL)	Total Area	770(464)	800(494)	1160(854)	1160(854)	NDB(L) EMW to MAPt (3.4NM)	MIN:SEC	1:17	1:28	1:42	2:03	2:34

ALTERNATIVE PROCEDURE
Notify ATC. Fly outbound leg of baseturn on NDB(L) EMW QDR 248° for 1MIN 45SEC (CAT A,B), NDB(L) QDR 231° for 1MIN 15SEC (CAT C,D) descending to not below **2000**(1694), then turn right to establish on the LOC. MAX 210KIAS.

NOTE
1 Aircraft unable to receive DME I-EMW notify ATC.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

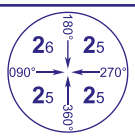
CHANGE (3/25): NEW CHART.

AERO INFO DATE 14 JAN 25

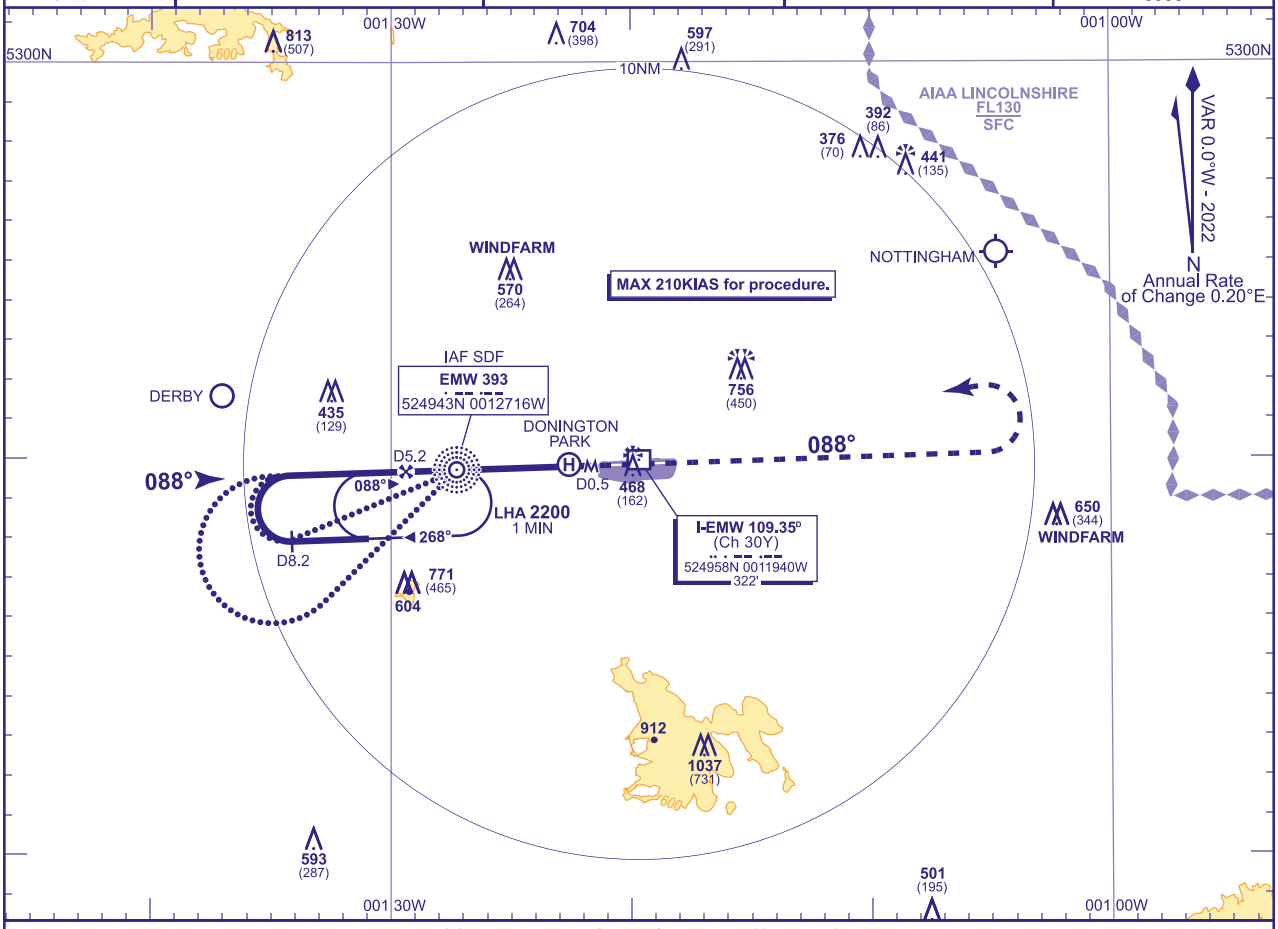
INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS NDB(L)/DME RWY 09

(ACFT CAT A,B,C,D)

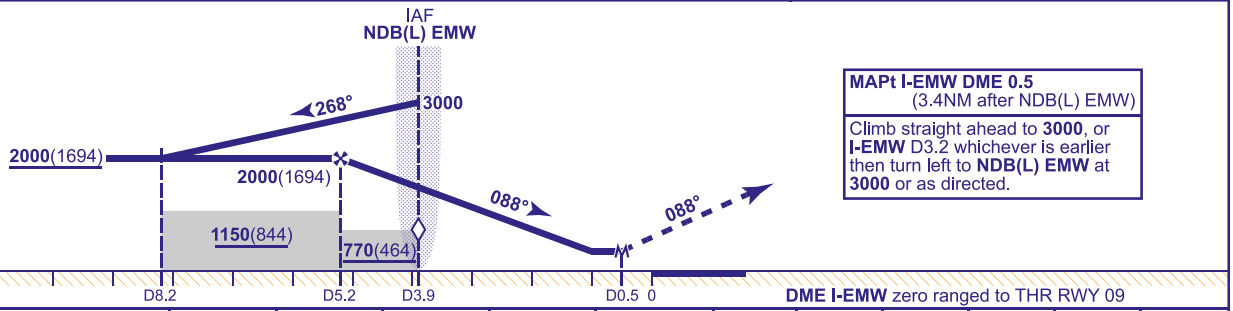


RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306	
	120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	306	
TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION		
	121.905	EAST MIDLANDS GROUND	1037 AMSL (731) (ABOVE THR)		
ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-EMW	5	4	3.9 (SDF)	3	2
ALT(HGT)	**1960**(1654)	**1640**(1334)	**1600**(1294)	**1320**(1014)	**1000**(694)



MAPt I-EMW DME 0.5
(3.4NM after NDB(L) EMW)

Climb straight ahead to **3000**, or **I-EMW** D3.2 whichever is earlier then turn left to **NDB(L) EMW** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**650**(344)	**650**(344)	**650**(344)	**650**(344)
VM(C)OCA (OCH AAL)	Total Area	**770**(464)	**800**(494)	**1160**(854)	**1160**(854)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
From overhead NDB(L) EMW **not below 3000**(2694) fly outbound on NDB(L) EMW QDR 248° (CAT A,B); NDB(L) EMW QDR 231° (CAT C,D), descending to **not below 2000**(1694). At I-EMW DME 8.2 baseturn right to intercept the FAT. Once established on the FAT continue as for main procedure.

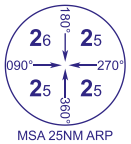
NOTE 1 Lowest altitude to commence procedure from hold is **3000**.
2 Aircraft will normally be required to hold not lower than **3000.**

CHANGE (3/25): PAGE NUMBER REVISED. MINIMA REVISED. MSA, MOCA , SDF REVISED. TIMING TABLE REMOVED. NO DME PROCEDURE NOW ON SEPARATE CHART.

AERO INFO DATE 10 JAN 25
AD 2-EGNX-8-5

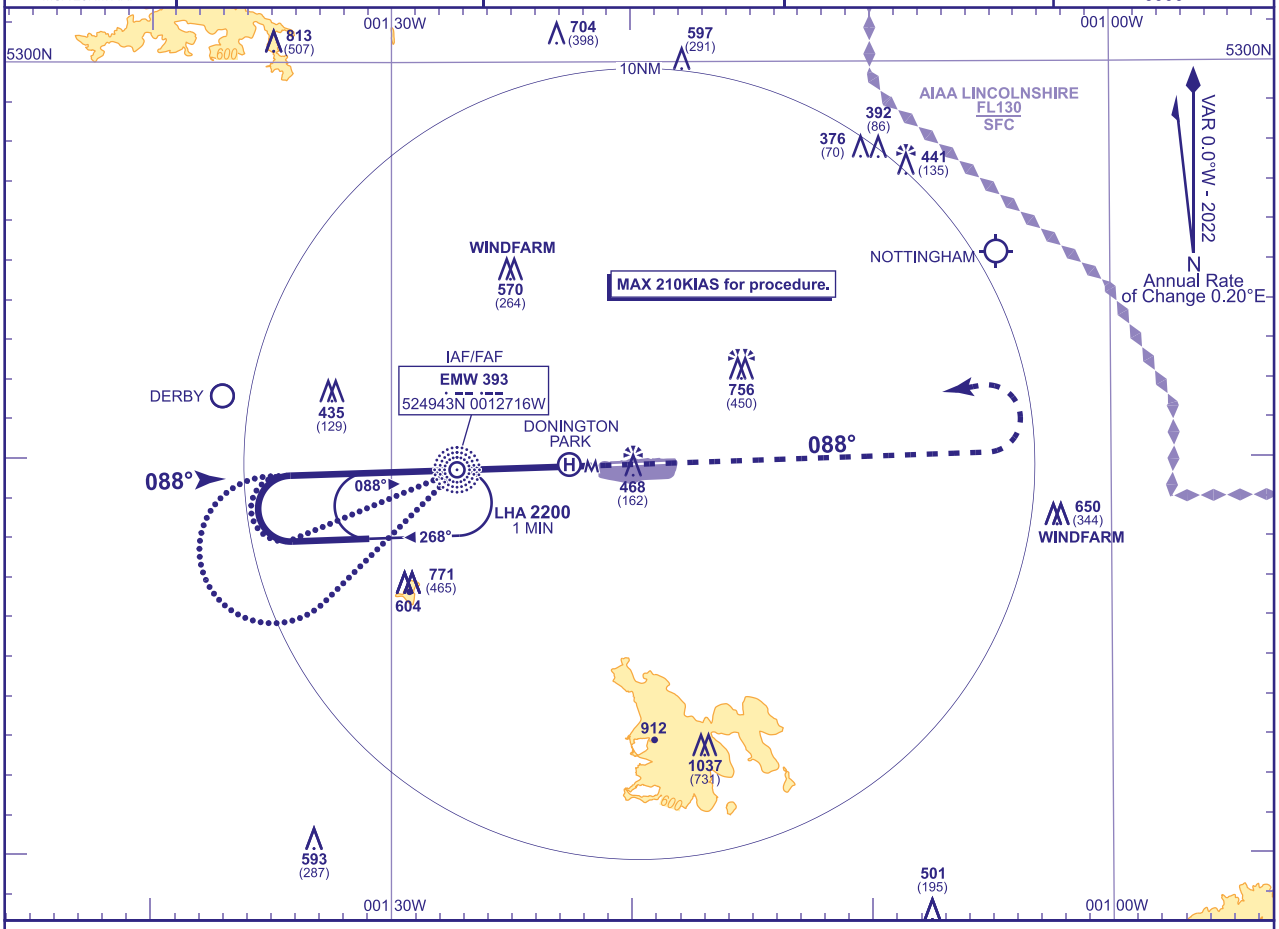
INSTRUMENT APPROACH CHART - ICAO

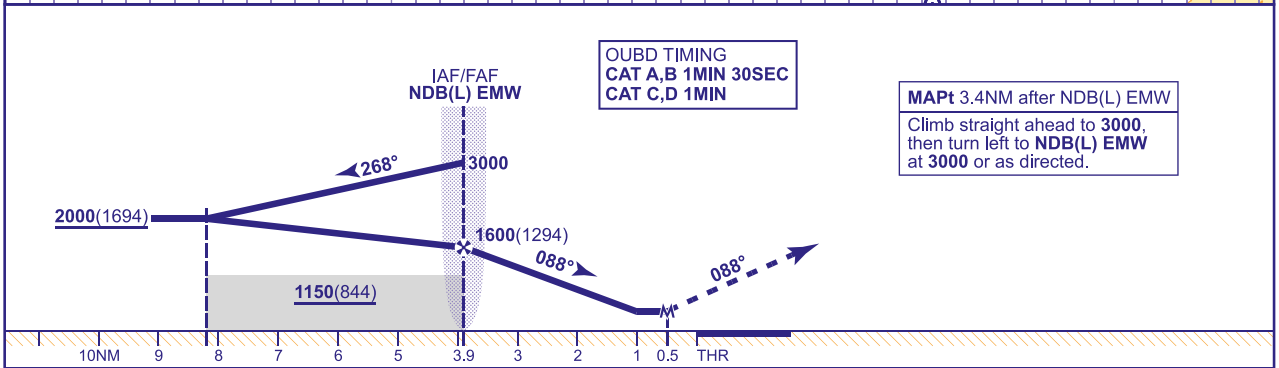
EAST MIDLANDS
NDB(L)
RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM ARP

RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	**306**	TRANSITION ALTITUDE **6000**
	120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	**306**	
TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION **1037 AMSL** (731) (ABOVE THR)		
	121.905	EAST MIDLANDS GROUND			
ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC		





Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	720(414)	720(414)	720(414)	720(414)		FT/MIN	850	740	640	530	420
VM(C)OCA (OCH AAL)	Total Area	770(464)	800(494)	1160(854)	1160(854)	NDB(L) EMW to MAPt (3.4NM)	MIN:SEC	1:17	1:28	1:42	2:03	2:34

ALTERNATIVE PROCEDURE
Notify ATC. Fly outbound leg of baseturn on NDB(L) EMW QDR 248° for 1MIN 45SEC (CAT A,B), NDB(L) EMW 231° for 1MIN 15SEC (CAT C,D) descending to not below **2000**(1694), then turn right to establish on the FAT. MAX 210KIAS.

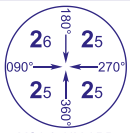
NOTE **1** Aircraft unable to receive DME I-EMW notify ATC.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (3/25): NEW CHART.

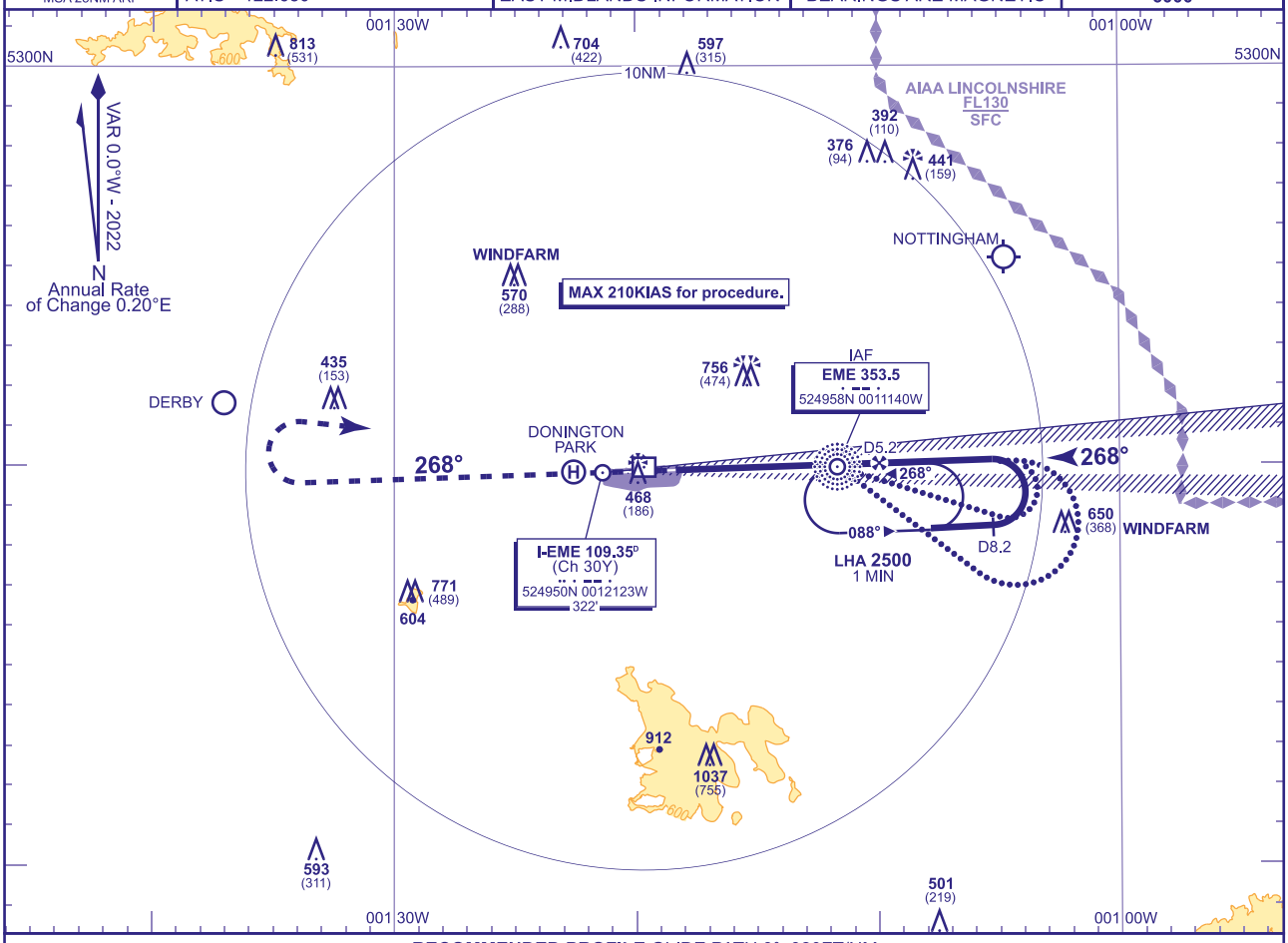
AERO INFO DATE 14 JAN 25 AD 2-EGNX-8-6

INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS
ILS/DME/NDB(L)
RWY 27
(ACFT CAT A,B,C,D)



RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306	TRANSITION ALTITUDE 6000
	120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	282	
TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION 1037 AMSL (755) (ABOVE THR)		
	121.905	EAST MIDLANDS GROUND			
ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC		

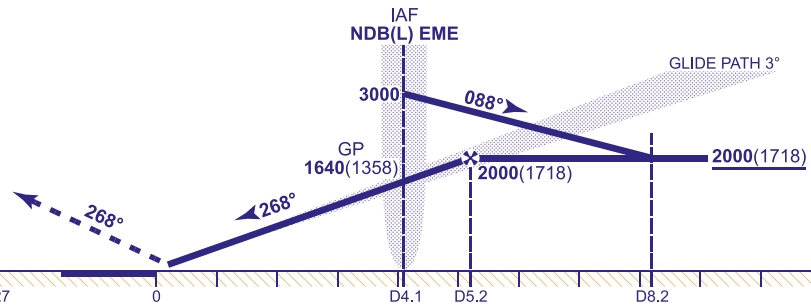


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-EME	5	4	3	2	1
ALT(HGT)	1930(1648)	1610(1328)	1290(1008)	970(688)	650(368)

RDH 54

Climb straight ahead to **3000**, or **I-EME** D8.8 whichever is earlier then turn right to **NDB(L) EME** at **3000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	CAT I	437(155)	448(166)	460(178)	473(191)		FT/MIN	850	740	640	530	420
	CAT II	340(58)	351(69)	363(81)	382(100)							
VM(C)OCA (OCH AAL)	Total Area	770(464)	800(494)	1160(854)	1160(854)							

ALTERNATIVE PROCEDURE
From overhead NDB(L) EME **not below 3000**(2718) fly outbound on NDB(L) EME QDR 109° (CAT A,B); NDB(L) EME QDR 126° (CAT C,D), descending to **not below 2000**(1718). At I-EME DME 8.2 baseturn left to intercept LOC. Once established on the LOC descend on the GP from the FAP (nominal I-EME D5.2) to DH.

NOTE **1** Lowest altitude to commence procedure from hold is **3000**.
2 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (3/25): PAGE NUMBER REVISED. MSA REVISED. PROFILE HEIGHTS. MINIMA REVISED. NO DME PROCEDURE NOW ON SEPARATE CHART.

AERO INFO DATE 15 JAN 25

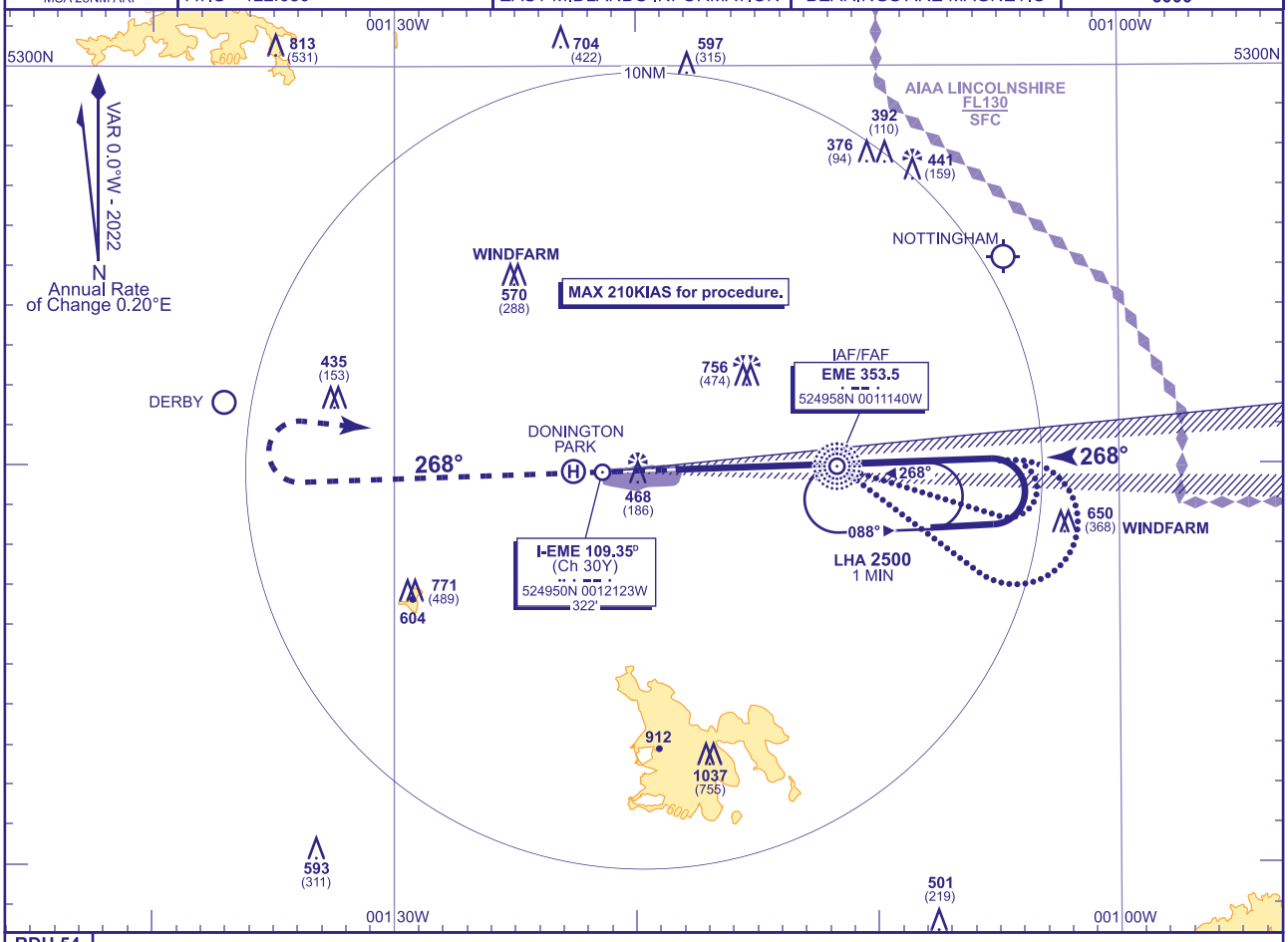
AD 2-EGNX-8-7

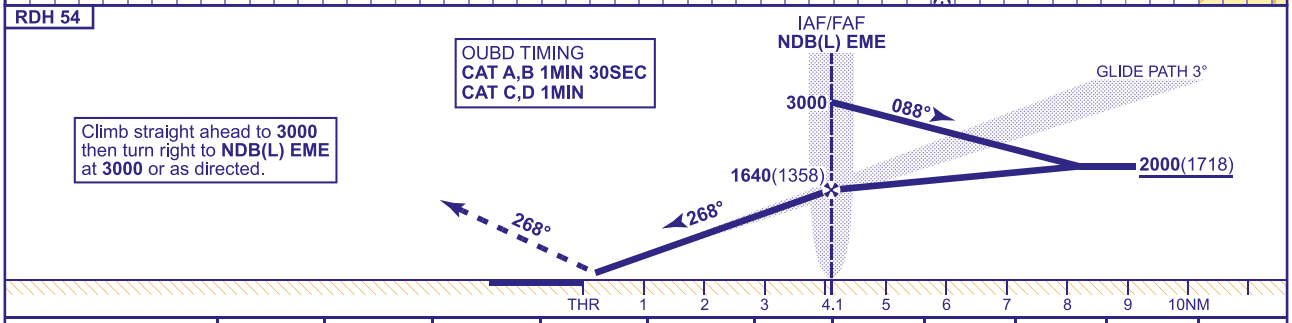
INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS
ILS/NDB(L)
RWY 27
(ACFT CAT A,B,C,D)

MSA 25NM ARP

RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306	TRANSITION ALTITUDE 6000
	120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	282	
TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION 1037 AMSL (755) (ABOVE THR)		
	121.905	EAST MIDLANDS GROUND			
ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC		





Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	437(155)	448(166)	460(178)	473(191)
	CAT II	340(58)	351(69)	363(81)	382(100)
VM(C)OCA (OCH AAL)	Total Area	770(464)	800(494)	1160(854)	1160(854)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
Notify ATC. Fly outbound leg of baseturn on NDB(L) EME QDR 109° for 1MIN 45SEC (CAT A,B), NDB(L) EME QDR 126° for 1MIN 15SEC (CAT C,D) descending to not below **2000**(1718), then turn left to establish on the LOC. MAX 210KIAS.

NOTE **1** Aircraft unable to receive DME I-EME notify ATC.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

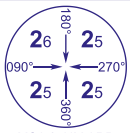
CHANGE (3/25): NEW CHART.

AERO INFO DATE 14 JAN 24

INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS LOC/DME/NDB(L) RWY 27

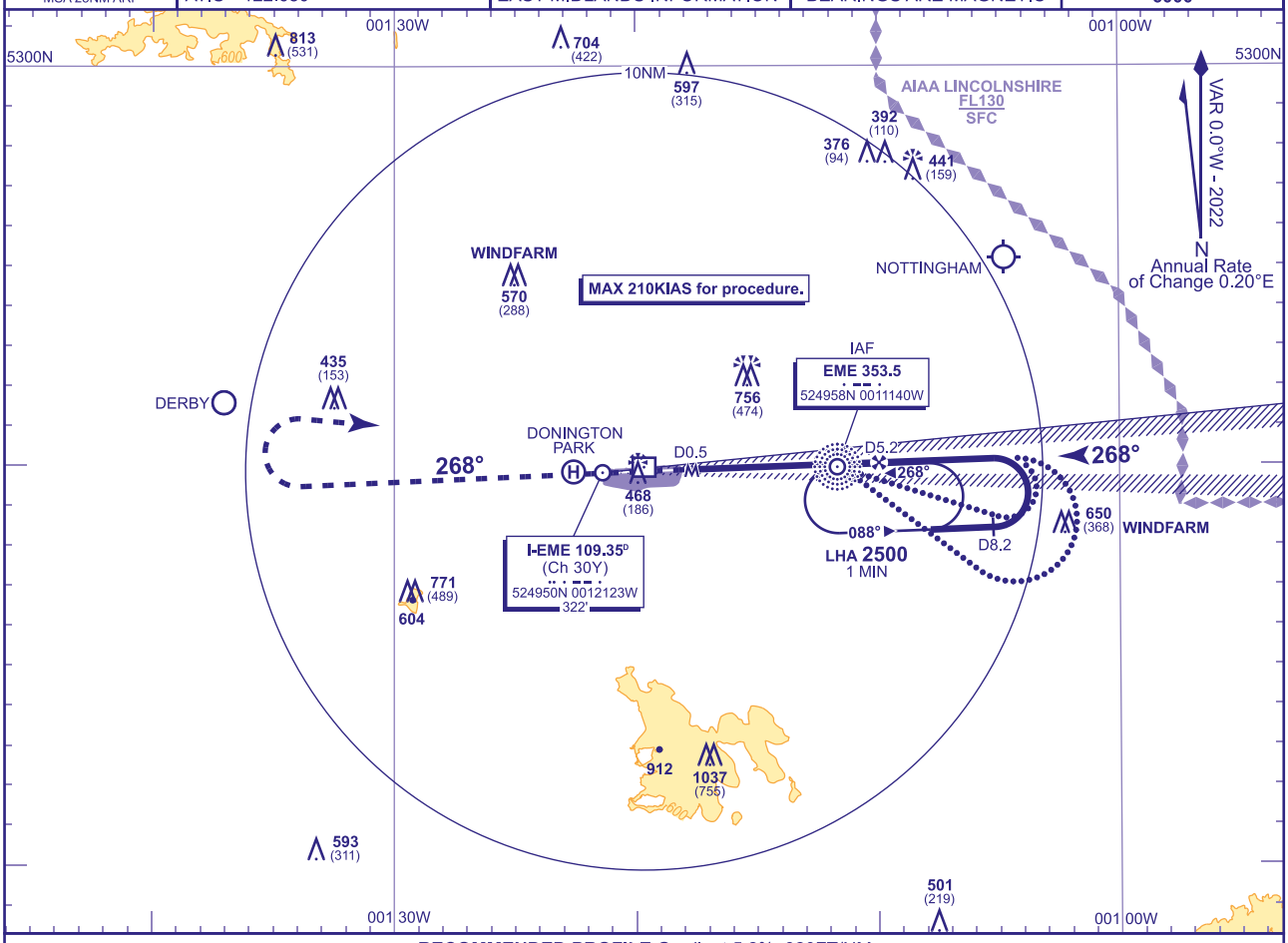
(ACFT CAT A,B,C,D)



MSA 25NM ARP

RAD 126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306
120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	282
TWR 124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION	1037 AMSL (755) (ABOVE THR)
121.905	EAST MIDLANDS GROUND		
ATIS 122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 6000

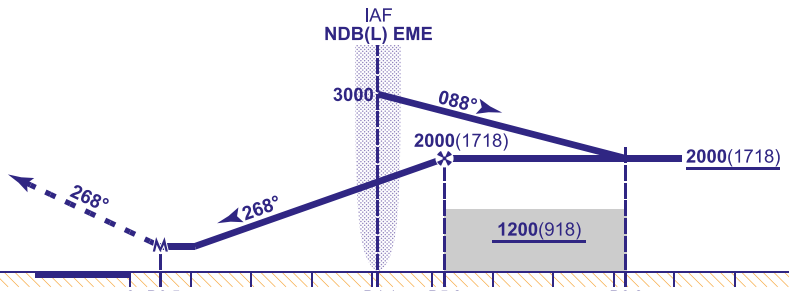


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-EME	5	4	3	2	1
ALT(HGT)	**1930**(1648)	**1610**(1328)	**1290**(1008)	**970**(688)	**650**(368)

MAPt I-EME DME 0.5
(3.6NM after NDB(L) EME)

Climb straight ahead to **3000**, or **I-EME** D8.8 whichever is earlier then turn right to **NDB(L) EME** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**600**(318)	**600**(318)	**600**(318)	**600**(318)
VM(C)OCA (OCH AAL)	Total Area	**770**(464)	**800**(494)	**1160**(854)	**1160**(854)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
From overhead NDB(L) EME **not below 3000**(2718) fly outbound on NDB(L) EME QDR 109° (CAT A,B); NDB(L) EME QDR 126° (CAT C,D), descending to **not below 2000**(1718). At I-EME DME 8.2 baseturn left to intercept LOC. Once established on the LOC continue as for main procedure.

NOTE 1 Lowest altitude to commence procedure from hold is **3000**.
2 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (3/25): PAGE NUMBER REVISED. MSA REVISED. MINIMA REVISED. SDF REMOVED. MOCA ADDED. NO DME PROCEDURE NOW ON SEPARATE CHART.

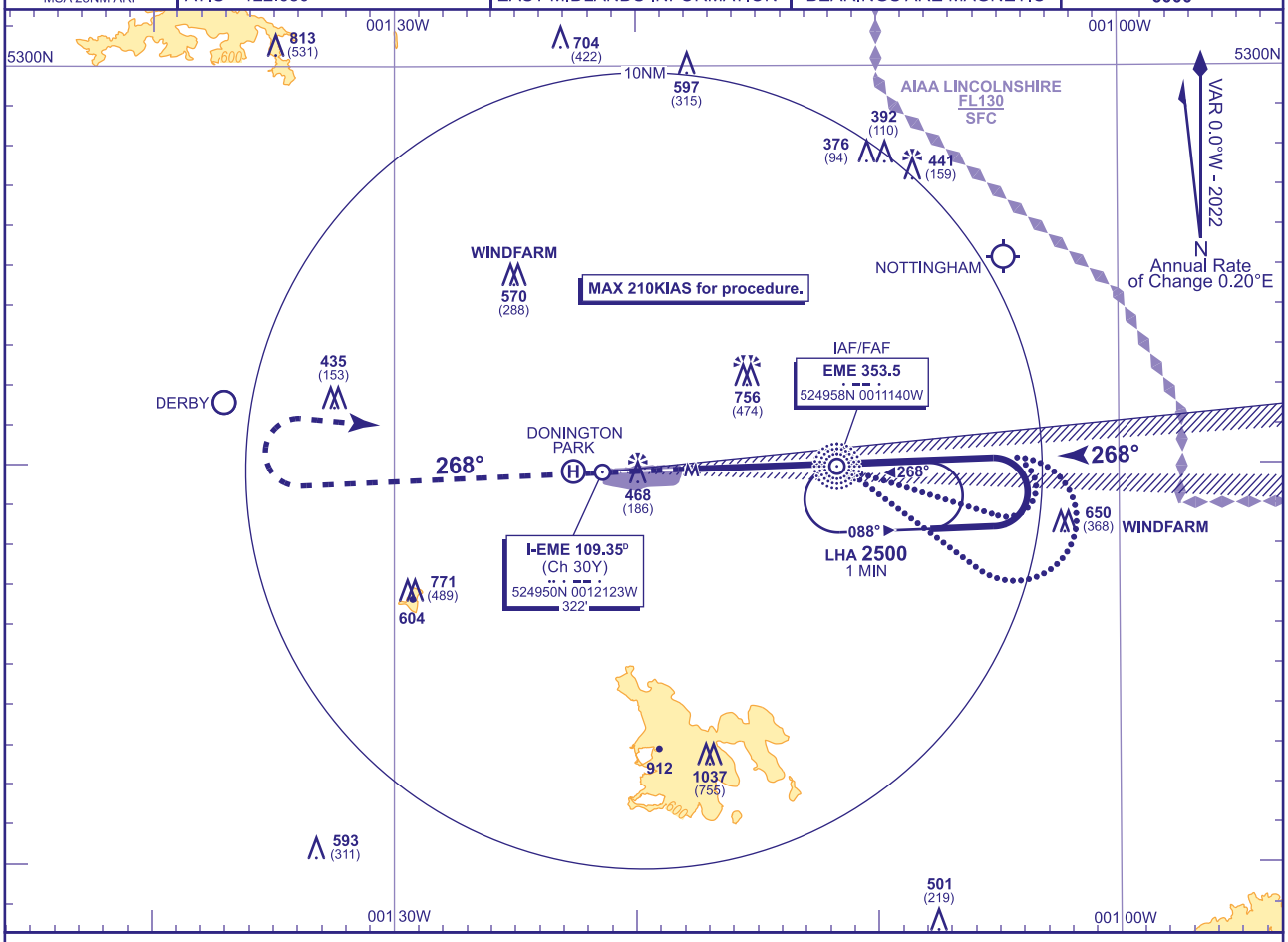
AERO INFO DATE 07 JAN 25

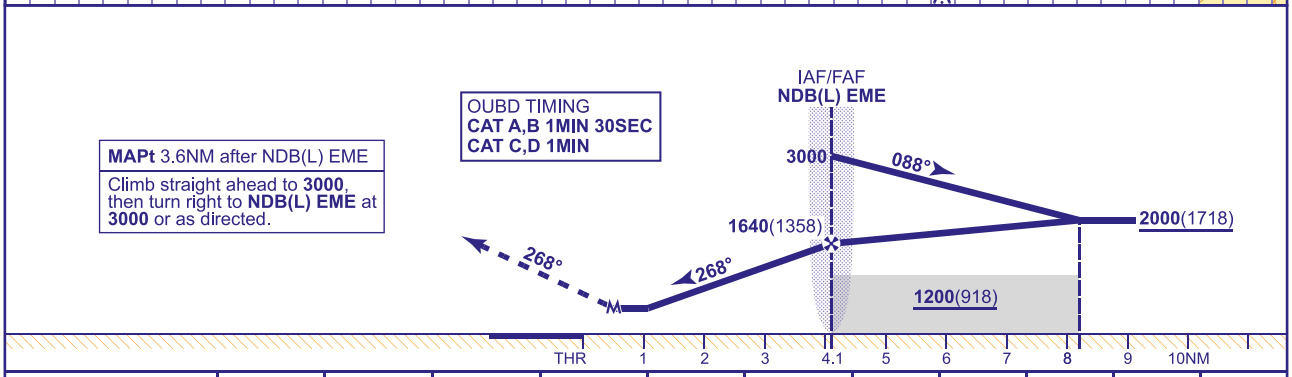
AD 2-EGNX-8-9

INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS LOC/NDB(L) RWY 27
(ACFT CAT A,B,C,D)

MSA 25NM ARP	RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306
		120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	282
	TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION	
		121.905	EAST MIDLANDS GROUND	1037 AMSL (755) (ABOVE THR)	
	ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC	
				TRANSITION ALTITUDE	6000





MAPt 3.6NM after NDB(L) EME

Climb straight ahead to **3000**, then turn right to **NDB(L) EME** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**700**(418)	**700**(418)	**700**(418)	**700**(418)
VM(C)OCA (OCH AAL)	Total Area	**770**(464)	**800**(494)	**1160**(854)	**1160**(854)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420
NDB(L) EME to MAPT	MIN:SEC	1:22	1:34	1:49	2:11	2:44

ALTERNATIVE PROCEDURE
Notify ATC. Fly outbound leg of baseturn on NDB(L) EME QDR 109° for 1MIN 45SEC (CAT A,B), NDB(L) EME QDR 126° for 1MIN 15SEC (CAT C,D) descending to not below **2000**(1718), then turn left to establish on the LOC. MAX 210KIAS.

NOTE
1 Aircraft unable to receive DME I-EME notify ATC.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

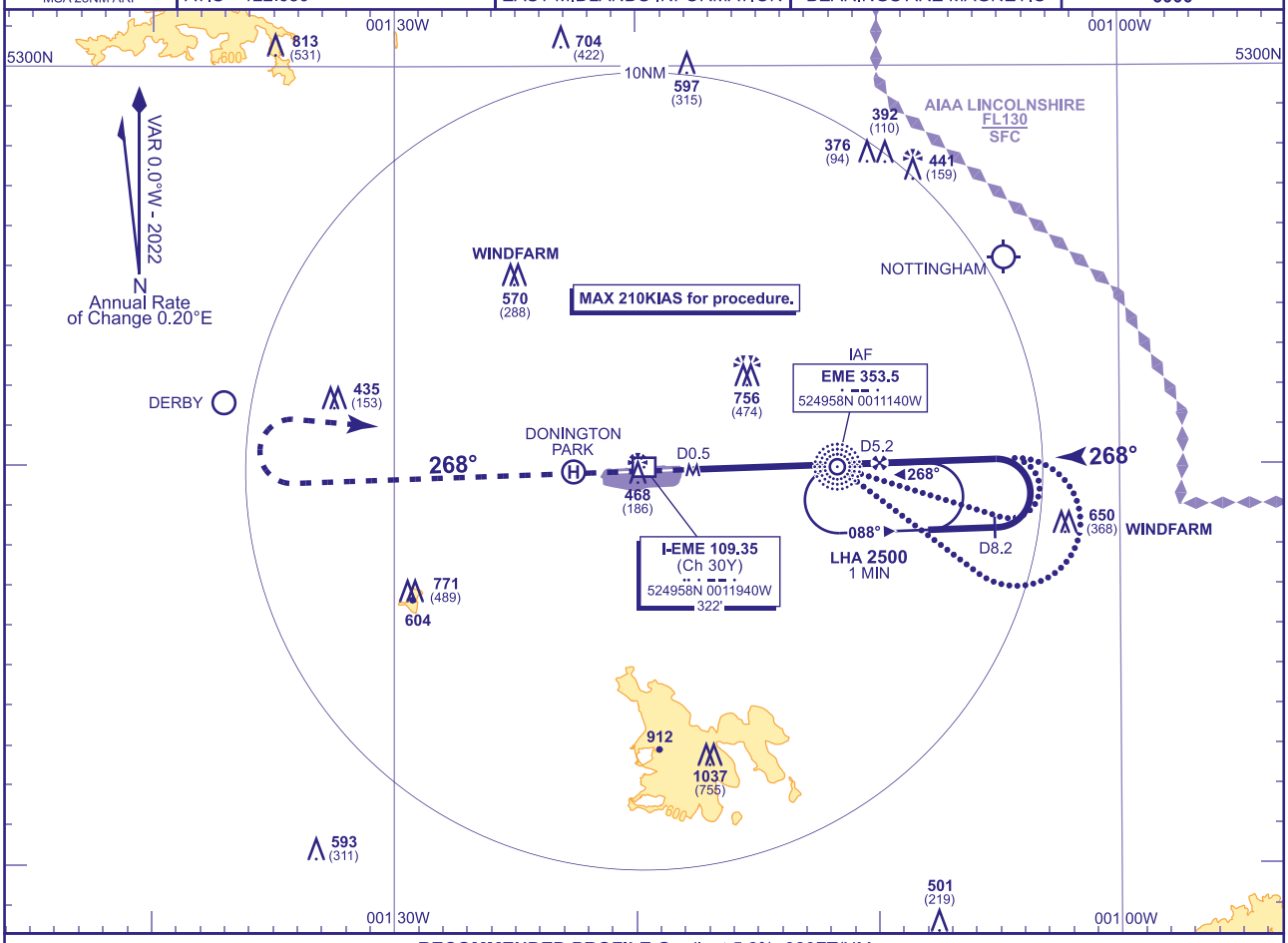
CHANGE (3/25): NEW CHART.

AERO INFO DATE 14 JAN 25 AD 2-EGNX-8-10

INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS NDB(L)/DME RWY 27
(ACFT CAT A,B,C,D)

MSA 25NM ARP	RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	306
26 25 25 25		120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	282
	TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION	
		121.905	EAST MIDLANDS GROUND	1037 AMSL (755) (ABOVE THR)	
	ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC	
				TRANSITION ALTITUDE	6000

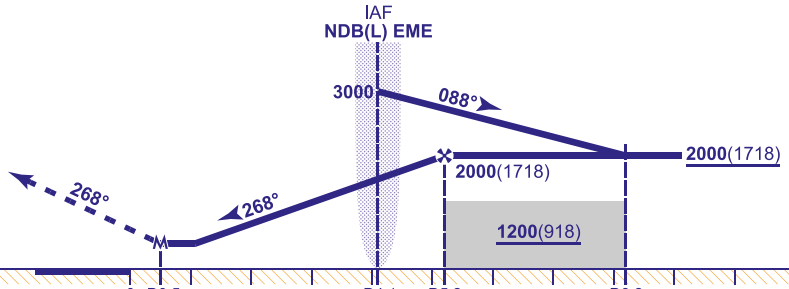


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-EME	5	4	3	2	1
ALT(HGT)	**1930**(1648)	**1610**(1328)	**1290**(1008)	**970**(688)	**650**(368)

MAPt I-EME DME 0.5
(3.6NM after NDB(L) EME

Climb straight ahead to **3000**, or **I-EME** D8.8 whichever is earlier then turn right to **NDB(L) EME** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**610**(328)	**610**(328)	**610**(328)	**610**(328)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(464)	**800**(494)	**1160**(854)	**1160**(854)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
From overhead NDB(L) EME **not below 3000**(2718) fly outbound on NDB(L) EME QDR 109° (CAT A,B); NDB(L) EME QDR 126° (CAT C,D), descending to **not below 2000**(1718). At I-EME DME 8.2 baseturn left to establish on the FAT. Once established continue as for main procedure.

NOTE 1 Lowest altitude to commence procedure from hold is **3000**.
2 Aircraft will normally be required to hold not lower than **3000.**

CHANGE (3/25): PAGE NUMBER REVISED. MSA REVISED. MINIMA REVISED. SDF REMOVED. MOCA ADDED. NO DME PROCEDURE NOW ON SEPARATE CHART.

AERO INFO DATE 18 DEC 24
AD 2-EGNX-8-11

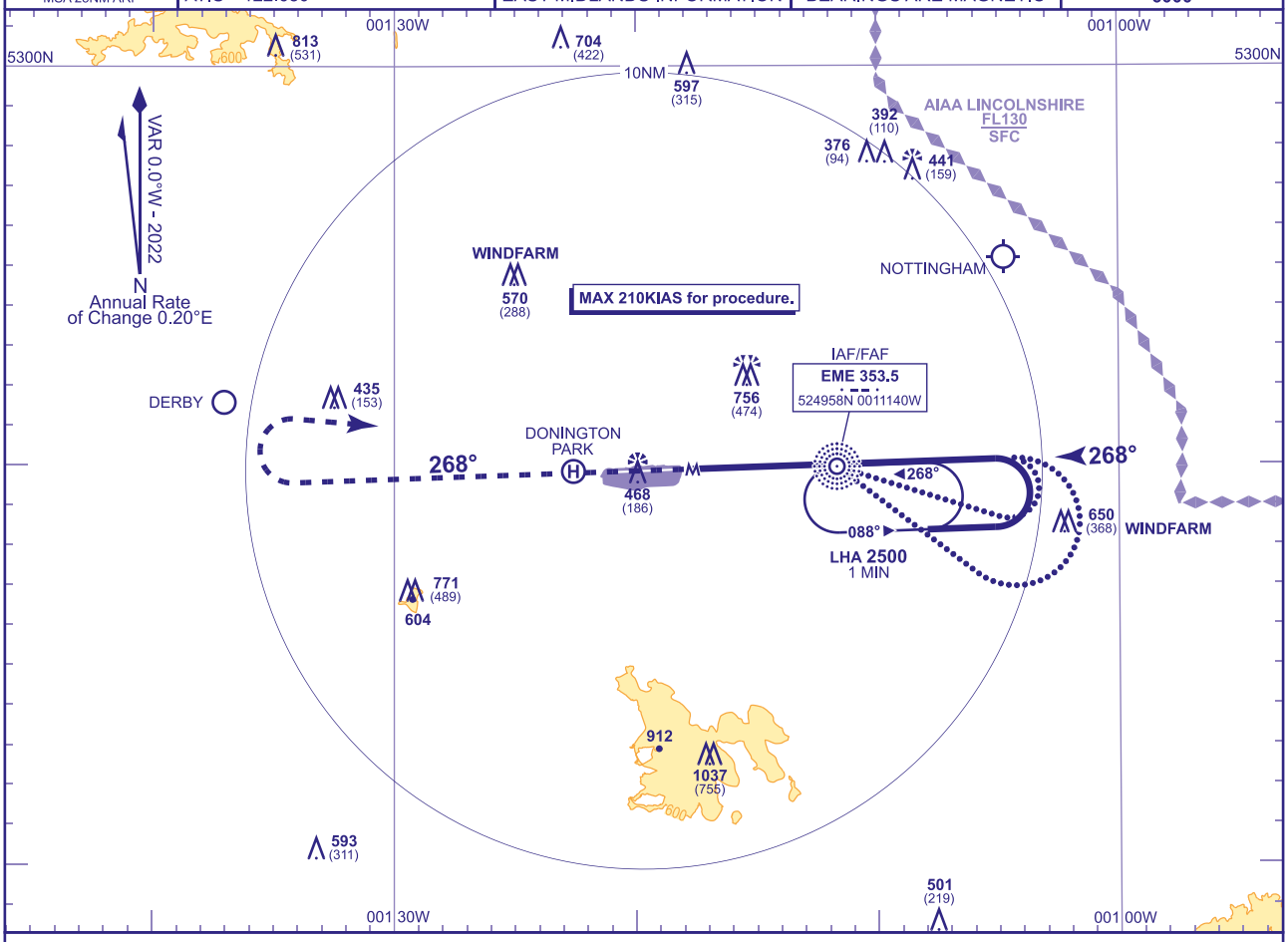
I

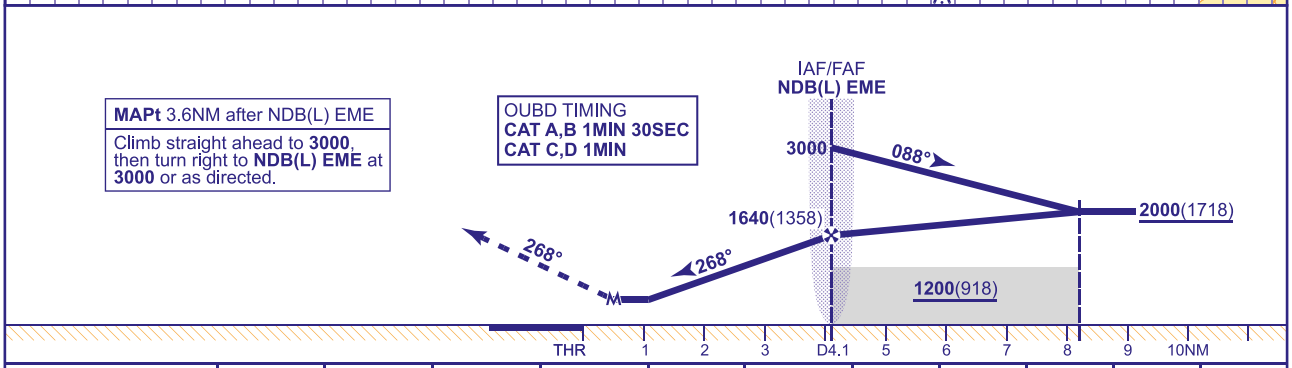
INSTRUMENT APPROACH CHART - ICAO

EAST MIDLANDS
NDB(L)
RWY 27
(ACFT CAT A,B,C,D)

MSA 25NM ARP	RAD	126.180, 134.180	EAST MIDLANDS RADAR	AD ELEVATION	**306**
		120.130	EAST MIDLANDS DIRECTOR	THR ELEVATION	**282**
	TWR	124.005	EAST MIDLANDS TOWER	OBSTACLE ELEVATION **1037 AMSL** (755) (ABOVE THR)	
		121.905	EAST MIDLANDS GROUND		
	ATIS	122.680	EAST MIDLANDS INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**





MAPt 3.6NM after NDB(L) EME
Climb straight ahead to **3000**, then turn right to **NDB(L) EME** at **3000** or as directed.

OUBD TIMING
CAT A,B 1MIN 30SEC
CAT C,D 1MIN

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**720**(438)	**720**(438)	**720**(438)	**720**(438)		FT/MIN	850	740	640	530	420
VM(C)OCA (OCH AAL)	Total Area	**770**(464)	**800**(494)	**1160**(854)	**1160**(854)	NDB(L) EME to MAPT	MIN:SEC	1:22	1:34	1:49	2:11	2:44

ALTERNATIVE PROCEDURE
Notify ATC. Fly outbound leg of baseturn on NDB(L) EME QDR 109° for 1MIN 45SEC (CAT A,B), NDB(L) EME QDR 126° for 1MIN 15SEC (CAT C,D) descending to not below **2000**(1718) then turn left to establish on FAT. MAX 210KIAS.

NOTE **1** Aircraft unable to receive DME I-EME notify ATC.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (3/25): NEW CHART.

AERO INFO DATE 14 JAN 25

EGED — EDAY

EGED AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGED — EDAY

EGED AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 591125N Long: 0024621W Mid point of Runway 07/25
2	Direction and distance from city	On the Isle of Eday.
3	Elevation / Reference temperature / Mean Low Temperature	13 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.39°W (2027) / 0.22°E
6	AD Administration Address Telephone Telefax E-mail address	ORKNEY ISLAND COUNCIL. Council Offices, Kirkwall, Orkney, KW15 1NY 01856-873535 01856-876094 developmentandinfrastructure@orkney.gov.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGED AD 2.3 OPERATIONAL HOURS

1	AD Administration	Daylight hours only, subject to PPR.
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR, a valid indemnity is required. Full details of landing fees and rules for airfield users can be found on the Orkney Islands Council website: http://www.orkney.gov.uk/Service-Directory/T/airfields.htm

EGED AD 2.4 HANDLING SERVICES AND FACILITIES

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EGED AD 2.5 PASSENGER FACILITIES

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EGED AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGED AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations. No snow clearing facilities available. During winter months pilots are advised to contact the Airfield Superintendent for the latest runway conditions. Tel: 01856-873535.

EGED AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGED AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGED AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGED5500) 25/APPROACH 07/ TAKE-OFF	Centre of Road	591129.28N 0024604.67W	13 FT		No	Vehicles

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGED AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGED AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
07	064.40°	527 x 18 M	RWY surface: Graded Hardcore	591122.06N 0024634.00W	THR 11.0 FT	
25	244.41°	527 x 18 M	RWY surface: Graded Hardcore	591128.62N 0024607.31W	THR 12.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 07 Starter extension of 29 M.
						RWY 25 Starter extension of 29 M.

EGED AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	498 M	498 M	498 M	469 M	TORA, TODA and ASDA include a 29 M starter extension.
25	498 M	498 M	498 M	469 M	TORA, TODA and ASDA include a 29 M starter extension.

EGED AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07		Green Light intensity low				White Light intensity low	Red Light intensity low		
25		Green Light intensity low				White Light intensity low	Red Light intensity low		

EGED AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 591132.41N 0024606.19W Flashing White. On request.
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGED AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	The helicopter landing 'H' is located at the mid point of the western end of the apron, 3 M in from the western edge.

EGED AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGED AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

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EGED AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGED AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All GA aircraft must park only on the clearly designated grass GA APRON. GA aircraft must not park on the main tarmac apron.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Visiting pilots should note that during periods of prolonged rainfall the grass can become very soft especially during the winter months.
b) Runway 07/25: Graded hardcore runway is generally unsuitable for light aircraft with low ground/propeller clearance due to unstabilised surface and as a result it would be advisable to carry out any power checks on the tarmac apron before departure.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGED AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGED AD 2.22 FLIGHT PROCEDURES

a) RTF. Contact with Kirkwall Approach is recommended.

EGED AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGED AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGED-2-1

EGED AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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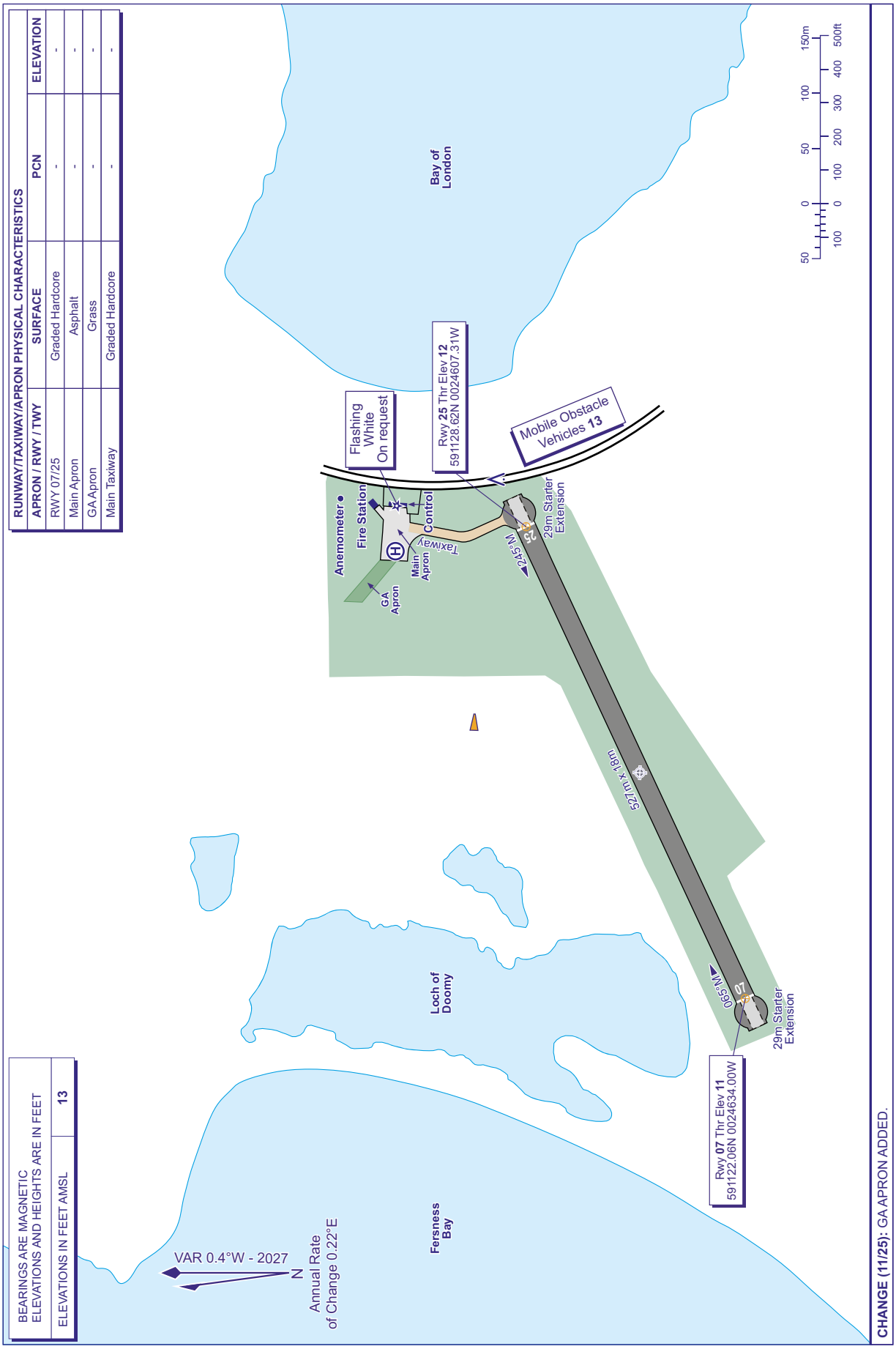
AERODROME CHART - ICAO

EDAY
EGED

AD ELEV 13FT

ARP 591125N 0024621W

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 07/25	Graded Hardcore	-	-
Main Apron	Asphalt	-	-
GA Apron	Grass	-	-
Main Taxiway	Graded Hardcore	-	-



BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL 13

CHANGE (11/25): GA APRON ADDED.

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EGPH — EDINBURGH

EGPH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPH — EDINBURGH

EGPH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 555700N Long: 0032221W Centre of Runway 06/24.
2	Direction and distance from city	5 NM W of Edinburgh.
3	Elevation / Reference temperature / Mean Low Temperature	112 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	174 FT
5	Magnetic Variation / Annual Change	1.21°W (2022) / 0.22°E
6	AD Administration Address Telephone	EDINBURGH AIRPORT LTD (EAL). Edinburgh Airport, Edinburgh, Lothian EH12 9DN. 0870-040 0007 (EAL) 0131-344 3139 (Airfield Operations) 0131-348 4823 (ATIS) 0131-348 4828 (ATC) 0131-348 4815 (ATC Administration)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All telephone calls to ATC will be recorded.

EGPH AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	
4	AIS Briefing Office	H24 Terminal Building H24. Business Aviation Centre H24.
5	ATS Reporting Office (ARO)	As AIS Briefing Office.
6	MET Briefing Office	As AIS Briefing Office.
7	ATS	H24 See also AD 2.18.
8	Fuelling	0530-2300 (0430-2200). Outside these hours by prior arrangement with handling agent.
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	AD use subject to limitation refer to AD 2.20 item 1 and to AD 2.21.

EGPH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full - at cargo centre situated behind the north and east aprons.
2	Fuel and oil types	AVTUR JET A-1 (anti-icing additive not included) Aeroshell W80, W100, Mobile Jet 2 (from Signature Flight on request).
3	Fuelling facilities/capacity	Pentland Aviation, Signature Flight Support by fuel bowser. De-fuelling facilities subject to arrangement with fuel company.
4	De-icing facilities	By arrangement with handling agent.
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Limited.

7	Remarks	Oxygen and related servicing limited, by arrangement with local companies. All operators, including Executive and Private General Aviation, must make prior arrangements with a handling agent for ground handling of all flights. Due to limited parking space all aircraft are PPR with their handling agent. GA handling facilities are provided by: Signature Flight Support: Tel: 0131-317 7447 or 03300-271262 SITA: EDIECXH AFTN: EGPHXHAE

EGPH AD 2.5 PASSENGER FACILITIES

1	Hotels	4 Hotels on the airport. Others in the vicinity.
2	Restaurants	Multiple eating facilities and bars.
3	Transportation	Buses, trams, taxis and car hire. Nearest railway station: Edinburgh Gateway, 1.5 miles.
4	Medical facilities	Limited first aid treatment available. Tel: 0131-344 3254.
5	Bank and Post Office	Cash dispensers in terminal building. Nearest Post Office 2 miles.
6	Tourist Office	
7	Remarks	

EGPH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A9
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Contact 0131-344 3139/3239 (H24). Light aircraft only.
4	Remarks	Aircraft operators are required to have prior arrangements in place for any required removal of disabled aircraft.

EGPH AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Latest information from Aerodrome operator Tel: 0131-344 3139/3239.

EGPH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	EAST APRON Surface: Concrete PCN 79/R/D/W/T GA APRON Surface: Concrete PCN 90/R/D/W/T MAIN AND SOUTHEAST APRONS Surface: Concrete PCN 72/R/C/W/T NORTH APRON Surface: Block paving PCN 31/F/C/X/T TURNHOUSE APRON Surface: Concrete PCN 90/R/D/W/T
2	Taxiway width, surface and strength	Taxiway A1-A8 AND A16-D1: 23 M Surface: Concrete PCN 120/R/C/W/T

		Taxiway ALPHA A8-A16: 23 M Surface: Asphalt PCN 70/F/A/W/T Taxiway ALPHA V+W LOOPS: 21 M Surface: Concrete PCN 120/R/C/W/T Taxiway ECHO: 36 M Surface: Concrete PCN 72/R/C/W/T Taxiway FOXTROT: 36 M Surface: Concrete PCN 72/R/C/W/T Taxiway GOLF: 36 M Surface: Concrete PCN 90/R/D/W/T Taxiway HOTEL: 36 M Surface: Concrete PCN 90/R/D/W/T Taxiway LIMA: 23 M Surface: Concrete PCN 131/R/D/W/T Taxiway MIKE M3-E APRON: 46 M Surface: Asphalt PCN 31/F/C/X/T Taxiway MIKE TWY M1-M2: 23 M Surface: Asphalt PCN 58/F/B/X/T Taxiway MIKE TWY M2-M3: 46 M Surface: Asphalt PCN 58/F/B/X/T Taxiway PAPA: 21 M Surface: Asphalt PCN 82/R/D/W/T Taxiway QUEBEC: 18 M Surface: Asphalt PCN 31/F/C/X/T Taxiway SIERRA: 36 M Surface: Concrete PCN 79/R/D/W/T
3	Altimeter checkpoint location and elevation	Passenger Terminal Stands 97 FT North Apron 103 FT
4	VOR checkpoints	
5	INS checkpoints	Aircraft Ground Movement/Parking/Docking Chart.
6	Remarks	

EGPH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Arriving and departing crew whom are unfamiliar with EGPH should notify ATC prior to taxiing. Apart from the GA Apron, nose-in parking in operation on all aprons. All nose-in stands have stand number, yellow centre-line and Stand Entry Guidance System. Stand Entry Guidance is provided by AGNIS/Stop Arrow (painted on the apron) or Safedock Docking Guidance System. Flight crew should be familiar with the guidance available and have an understanding on how they operate. Marshalling service is provided for the GA Apron and Stands 21, 23, 28, 99, 101, 308, 309, 310, 310L, 310R, 311, 311L, 311R, 312, 312L, 313, 314, 315, 316, 317 and 317A.

2	Runway and taxiway markings and lighting	Runway marking aid(s): 06/24: Runway designation, runway centre-line and threshold markings. Touchdown zone and fixed distance markings. Runway edge markings and displaced threshold arrows. Taxiway light(s): Green centre-line lighting with blue edge lights on sharp curves, red stop bars at holding points. Runway exits have alternate green/yellow centre-line lights to the CAT II/III stop bars. Runway guard lights on accesses to runway.
3	Stop bars and runway guard lights (if any)	Illuminated red stop bars are provided where appropriate.
4	Other runway protection measures	Aircraft parked on the GA Apron may start engines and taxi from a nose out position. Flight and ground crew must ensure that roadways etc are protected against any jet blast/prop wash.
5	Remarks	Aircrew are to note that the Stand Entry Guidance (SEG) on all SEG equipped stands is activated by an apron level timer device, operated by airline/handling agent staff. Pilots should not turn off the taxilane centre-line unless the Stand Entry Guidance is illuminated with aircraft type, or a marshaller has signalled clearance to proceed. Pilots should note that failure to adhere to this instruction may lead to a negative "On Time Performance" figure. On stand taxi speed should not exceed 5 KT. All operators must ensure that their engineering staff and/or handling agents have suitable, serviceable equipment on station to push and/or tow aircraft which they might operate. Obstacle markings and snow edge markings are provided where necessary. Three WDIs serve Runway 06/24: 555650.75N 0032221.86W (LGTD) - 555634.84N 0032306.76W (LGTD) - 555710.67N 0032120.95W (LGTD). If an aircraft has been repositioned to face out on any stand, it must be either repositioned to nose-in on stand or towed out to the taxiway centre-line before starting engines. Flight crews should be aware that chart providers may not highlight taxilanes on their published aerodrome chart and taxiways on their published parking/ docking chart. When transiting to/from the allocated parking position, aircraft will transit both taxiways and taxilanes.

EGPH AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPH18669) 24/APPROACH 06/ TAKE-OFF	TREE	555748.96N 0032009.82W	186 FT	78 FT	No	
(EGPH21240) 24/APPROACH 06/ TAKE-OFF	TREE	555738.99N 0032035.40W	154 FT	54 FT	No	
(EGPH19777) 24/APPROACH 06/ TAKE-OFF	POLE	555729.45N 0032105.46W	128 FT	17 FT	No	
(EGPH21003) 06/APPROACH 24/ TAKE-OFF	TREE	555622.53N 0032358.53W	172 FT	48 FT	No	
(EGPH19098) 06/APPROACH 24/ TAKE-OFF	TREE	555511.10N 0032704.10W	349 FT	61 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPH17386)	BRIDGE TOWER	560037.22N 0032432.49W	663 FT	670 FT	Yes Red	
(EGPH17387)	BRIDGE TOWER	560017.39N 0032444.99W	690 FT	697 FT	Yes Red	
(EGPH17388)	BRIDGE TOWER	555957.56N 0032457.50W	663 FT	670 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPH18543)	BRIDGE TOWER	555949.07N 0032414.85W	522 FT	529 FT	Yes Red	
TAYLOR WIMPEY CRANE	CRANE	555851N 0032257W	265 FT	99 FT	Yes Steady Red	North of Airfield at Queensferry.
DALMENY TANK FARM	CRANE	555836N 0032218W	326 FT	164 FT	Yes Red	End estimated June 2026.
MAYBURY ROAD CRANE	CRANE	555728N 0031828W	306 FT	164 FT	Yes Red	Maybury Road, Edinburgh.
BARRATT WEST CRAIGS	CRANE	555651N 0031915W	362 FT	164 FT	Yes Red	Craigs Road Edinburgh. End estimated July 2026.
WEST CRAIGS	CRANE	555650.7N 0031906.7W	332 FT	126 FT	Yes Steady Red	End estimated June 2026.
	CRANE	555648N 0031911W	309 FT	118 FT	Yes Red	Craigs Road Edinburgh. End estimated November 2027.
CALA TURNHOUSE ROAD	CRANE	555640N 0031936W	298 FT	131 FT	Yes Red	Turnhouse Road. End estimated December 2027.
EDINBURGH PARK	CRANE	555542N 0031842W	272 FT	99 FT	Yes Red	Edinburgh Park, Edinburgh. End estimated June 2026.

EGPH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 24 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/Telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	EDINBURGH
10	Additional information (limitation of service, etc.)	

EGPH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
06	058.85°	2558 x 45 M	RWY surface: Asphalt, Grooved PCN 68/R/B/W/T	555641.99N 0032313.90W 173.5 FT	THR 110.1 FT TDZ 110.1 FT	
24	238.88°	2558 x 45 M	RWY surface: Asphalt, Grooved PCN 68/R/B/W/T	555717.66N 0032128.66W 173.4 FT	THR 99.8 FT TDZ 100.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
60 x 45 M	60 x 150 M	2798 x 280 M				RWY 06 Runway 06 threshold is inset 214 M. Paved shoulders extend 8 M beyond each side of runway.
60 x 45 M	448 x 150 M	2798 x 280 M				RWY 24 Runway 24 threshold is inset 211 M. Paved shoulders extend 8 M beyond each side of runway.

EGPH AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	2556 M	2616 M	2616 M	2344 M	
24	2554 M	3002 M	2614 M	2347 M	
06	1891 M	1951 M	1951 M		Take-off from intersection with Hold Bravo 1. Information signage in place adjacent to Hold Bravo 1.
24	1891 M	2339 M	1951 M		Take-off from intersection with Hold Charlie 1. Information signage in place adjacent to Hold Charlie 1.

EGPH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. First barrette of ALS removed. 870 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3° 56 FT 425 M	White Light intensity high 870 M	Colour coded centre-line 15 M spacing	Bi-directional edge 46 M gauge	Red	60 M beyond runway end lights Red	
24	Coded centre-line with five crossbars. Supplementry lighting inner 300 M. 914 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3° 59 FT 380 M	White Light intensity high 900 M	Colour coded centre-line 15 M spacing	Bi-directional edge 46 M gauge	Red	60 M beyond runway end lights Red	

EGPH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 555652.26N 0032256.91W (LGTD) - 555715.14N 0032149.44W (LGTD).
3	TWY edge and centre line lighting	CL: All taxiways are equipped with green centre-line lighting. All aircraft stand taxiways are equipped with green centre-line lighting.
4	Secondary power supply/switch-over time	Yes.
5	Remarks	Apron floodlighting for all apron areas. Obstacle lighting.

EGPH AD 2.16 HELICOPTER LANDING AREA

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EGPH AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
EDINBURGH CTR A circle, 10 NM radius, centred at 555700N 0032221W	Upper limit: 6000 FT ALT Lower limit: SFC	D	EDINBURGH APPROACH English	6000 FT		
EDINBURGH ATZ A circle, 2.5 NM radius, centred at 555700N 0032221W on longest notified runway (06/24)	Upper limit: 2000 FT AGL Lower limit: SFC	D	EDINBURGH APPROACH English	6000 FT		

EGPH AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	EDINBURGH APPROACH	121.205 Also a CTR Channel. DOC 40 NM/ 10,000 FT.			H24	ATZ hours coincident with Approach hours. VDF 555639.82N 0032252.81W VDF can be changed to 118.705 or 121.500 MHz O/R.
TWR	EDINBURGH GROUND	121.755			Mon-Fri 0600-2200 (0500-2100); Sat, Sun 0600-2200 (0500-2100).	Outside operating hours contact TOWER 118.705 MHz. VDF 555639.82N 0032252.81W VDF can be changed to 118.705 or 121.500 MHz O/R.
		121.980 as directed by ATC.			Mon-Fri 0600-2200 (0500-2100); Sat, Sun 0600-2200 (0500-2100).	
	EDINBURGH TOWER	118.705 DOC 25 NM/ 10,000 FT.			H24	
		121.500			O/R	
RADAR	EDINBURGH RADAR	121.205 DOC 40 NM/ 10,000 FT.			H24 Subject to NOTAM	VDF 555639.82N 0032252.81W VDF can be changed to 118.705 or 121.500 MHz O/R.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
		128.980 DOC 40 NM/ 10,000 FT. As directed by ATC.			H24 Subject to NOTAM	
ATIS	EDINBURGH INFORMATION	131.355 DOC 60 NM/ 20,000 FT.			H24	Also available by telephone: 0131-348 4823.
OTHER	EDINBURGH FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 0.24°W (2027)	IVG	108.900 MHz	HO	555725.58N 0032105.28W		(RWY 06) The Localiser is not to be used below 3000 FT agl outside 17 NM.
ILS/GP	IVG	329.300 MHz	HO	555652.51N 0032259.39W		3° ILS Ref Datum Hgt 54 FT. Certified for extended range to 15 NM. Not for use below 2200 FT at this range. May not maintain full scale fly up indications when left of localiser centre-line and below glidepath.
ILS/LOC III 0.25°W (2027)	ITH	108.900 MHz	HO	555629.22N 0032351.54W		(RWY 24) The Localiser is not to be used below 3000 FT agl outside 17 NM.
ILS/GP	ITH	329.300 MHz	HO	555716.69N 0032148.96W		3° ILS Ref Datum Hgt 50 FT. Certified for extended range to 15 NM. Not for use below 2200 FT at this range.
VOR/DME 0.66°W (2027) 1.0°W (2022)	GOW	101X 115.400 MHz	H24 Hours of operation for aerodrome purposes: HO	555213.81N 0042644.60W	46 FT	GOW VOR DOC: 25 NM/25,000 FT (45 NM/25,000 FT Sector R051-091). Due to terrain, coverage at low level is reduced in Sectors R346-026 and R181-201.
VOR/DME 0.71°W (2027) 0.9°W (2025)	TRN	122X 117.500 MHz	H24	551848.28N 0044701.91W	586 FT	VOR DOC: 20 NM/50,000 FT, 30 NM/ 50,000 FT in Sector R056-106 and 45 NM/50,000 FT in Sector R356-056. DME DOC: 100 NM/50,000 FT (60 NM/50,000 FT in Sector R076-226 and 200 NM/50,000 FT in Sector R271-001). Due to terrain effects bearing errors of greater than 4 may occur in Sector R171-181. In addition coverage at low level is reduced in Sector R066-106.
DME	IVG	26X 108.900 MHz	HO	555706.24N 0032222.75W	120 FT	(RWY 06) On AD. DME freq paired with ILS I-VG and I-TH. Zero range is indicated at THR of Runway 06 and 24.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	ITH	26X 108.900 MHz	HO	555706.24N 0032222.75W	120 FT	(RWY 24) On AD. DME freq paired with ILS I-VG and I-TH. Zero range is indicated at THR of Runway 06 and 24.
NDB (L) 0.21°W (2027)	EDN	341.000 kHz	H24	555842.55N 0031707.63W		Range 35 NM.
NDB (L) 0.29°W (2027)	UW	368.000 kHz	H24	555418.55N 0033009.05W		Range 25 NM.

EGPH AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Edinburgh CTR.
b) All flights, except General Aviation and Military flights, are subject to the prior approval of the Chief Executive Officer, Edinburgh Airport Ltd (EAL) and prior notification to Airport Coordination Ltd, who act as an agent for the airport. Requests for ad-hoc slot allocations should be made to ACL during working hours Mon-Fri 0830-1700 (0730-1600) by email: lonacxh@acl-uk.org; or Tel: +44 (0)161-493 1850, Fax: +44 (0)161-493 1853, or at all other times to EAL Airside Operations on Tel: +44 (0)131-344 3139. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com/default.aspx?AspxAutoDetectCookieSupport=1
c) Fixed-wing and rotary aircraft using Edinburgh Airport do so in accordance with the Conditions of Use document available on request from Edinburgh Airport Ltd. Tel: +44 (0)844 481 8989 or www.edinburghairport.com/cou
d) Use by aircraft not able to communicate with ATC by radio is subject to prior permission from ATC.
e) A handling agent (an EAL licensed airline operator or handling agent based at Edinburgh) is a requirement for all flights including general aviation, cargo, military and helicopter movements. All operators, including executive and private general aviation, must make prior arrangements with a handling agent for the ground handling of all flights. Due to limited parking space all aircraft are PPR with their handling agent.
f) Pilots of international arriving or departing General Aviation aircraft are responsible for presenting their passengers to the UK Border Agency. Transport to and from the control authority facilities will be provided by the handling agent.
g) Airline operators are requested to note that stand availability is extremely limited, particularly at night and for large wide-bodied aircraft.
h) The use of the airport is also subject to the limitations imposed by the night noise limitations.
i) It is a requirement that every airline using Edinburgh Airport must have local orders compatible with the EAL Emergency Orders. Airlines, General Aviation operators and Flying Clubs should also note that it is their responsibility to recover disabled aircraft and aircraft wreckage and have appropriate arrangements in place before commencing flying operations into the airport. EAL will act as the co-ordinating body throughout the recovery operation and has only very limited equipment which might be used to salvage disabled aircraft.
j) Aircrew can request ATC departure clearance from EOBT-25. Departing aircraft on first contact with Edinburgh ATC must state aircraft type, stand number and the code letter of the latest ATIS received.
k) Crews should be in receipt of departure clearance prior to requesting push and start.
l) ATC departure clearance by Data Clearance Link (DCL) is available at Edinburgh for suitably equipped aircraft. DCL must be compliant with ARINC 623-2 and Eurocae ED 85-A. DCL is available as follows: **Winter** - All flights from EOBT-25 minutes. **Summer** - Flights with EOBT between 0500Z and 0700Z, EOBT-22 minutes otherwise from EOBT-25 minutes. DCL clearances may not be issued if requested later than EOBT+15 minutes.
Successful clearances must be accepted within 5 minutes of receipt or a '**REVERT TO VOICE**' message will be received. If any data errors are detected by the system or the controller, a '**REVERT TO VOICE**' message will be received.
If the attempt to obtain a clearance is unsuccessful the aircraft should revert to voice RTF.
m) Crews should request start up clearance only when fully ready to push. This should include doors and hatches closed, steps or air bridge removed, tug attached and communications established with ground crew with confirmation that they are ready. To prevent back of stand vehicle traffic congestion, anti-collision beacons should only be switched on once start clearance has been obtained. Where a push-back is to take place with no headset communication between ground crew and aircraft commander, ATC must be advised of this prior to push-back clearance being requested.
n) Aircraft commanders should not request taxi clearance until all ground crew have vacated the taxilane.
o) When on airside external areas, Flight crew and Cabin Crew are required to wear a fully fastened high visibility jacket or tabard.

2 GROUND MOVEMENT

a) Arriving and departing crew whom are unfamiliar with EGPH should notify ATC prior to taxiing. All stands are nose-in/push-back. Aircraft on the GA Apron may be turned to face nose out. Aircraft parked on the GA Apron may start engines and taxi from a nose out position. Flight and ground crew must ensure that roadways etc are protected against any jet blast/prop wash. Pilots requiring services on Apron areas, including Customs and Immigration, must ensure that a suitable tow-bar is available.
b) General Aviation (GA) aircraft requiring UK Border Agency clearance may be initially directed to the passenger apron. Passengers will be taken to the main passenger terminal for UK Border Agency clearance by their handling agent. When all necessary formalities have been completed, aircraft will be required to reposition to an alternate parking location. GA aircraft not requiring UK Border Agency inspection may taxi directly to their allocated parking area.

c) Aircrews are advised that there is a short section of parallel taxiway incorporating Lima 1 to Lima 2 and Mike 1 to Mike 2 to enable ATC to pass aircraft. Aircraft must remain on the yellow centre-lines to maintain the required minimum wing-tip clearances and should ensure that they understand the routeing given by ATC, particularly at night when both taxiway centre-lines and associated curves are illuminated. The taxiways are clearly delineated by internally illuminated signs and painted ground markings where it has not been possible to provide signs.

d) At all times, aircrew are responsible for their wingtip separation and, if in any doubt, should stop, hold position and request marshaller assistance. At either end of the Taxiway Alpha, passing places (V and W loops) have been provided to allow aircraft to hold and/or pass aircraft holding on the Taxiway Alpha. Aircraft may pass other aircraft at these locations only when both aircraft concerned have a wingspan of less than 36 M.

e) Airlines/Aircraft Operators should be aware that stand availability prior to operational first wave is extremely limited and aircraft arriving off schedule prior to first wave are likely to either hold or be allocated any aircraft compliant stand, including non-contact, as they become free.

3 CAT II/III OPERATIONS

a) Runway 06 and 24, subject to serviceability of the required facilities, are suitable for Category II/III operations by operators whose minima have been accepted by the Civil Aviation Authority.

b) During Category II and III operations special ATC procedures (ATC low visibility procedures) will be applied. Pilots will be informed by RTF when these procedures are in operation.

c) Departing Aircraft: Aircraft must not obstruct the Fire Service access road to Runway 06/24 between Holds A10 and A11.

d) Arriving Aircraft: Pilots should delay the call 'Runway vacated' until the aircraft is established on Taxiway Alpha and past the coded taxiway centre-line.

e) No intersection departures from Bravo and Charlie.

4 WARNINGS

a) Pilots are warned that there is a large bird population around the aerodrome and to expect the possibility of increased bird activity in the lower airspace, together with visible evidence of deterrent activity in the form of shell crackers being fired.

b) Steel plate in place on Echo Taxiway, 15 metres south of E2 and 10 metres West of the Echo Taxiway centreline.

5 HELICOPTER OPERATIONS

a) All helicopter arrivals and departures are via Runway 06/24.

b) Arrivals - ATC shall direct traffic to the designated parking area and thereafter will advise on hover/taxiing requirements.

c) Departures – As directed by ATC.

6 USE OF RUNWAYS

a) The declared distances promulgated for the Bravo and Charlie taxiway intersections are taken at the intersection of the downwind edge of the specified taxiway with the runway centre-line. An appropriate adjustment for a line up allowance must additionally be made by aircrew.

b) Minimum Runway Occupancy Times

i. Departures

1. On receipt of line up clearance, pilots should, commensurate with safety and standard operating procedures, line up on the runway without delay.
2. Whenever possible, cockpit checks should be completed prior to line up and any checks requiring completion whilst on the runway should be kept to the minimum required. Pilots should ensure that they are able to commence the take off roll as soon as clearance is issued.
3. Pilots not able to comply with these requirements should notify ATC as soon as possible once transferred to the Edinburgh Tower frequency.

ii. Arrivals

1. Pilots are reminded that rapid exit from the runway will enable ATC to apply minimum spacing on final approach to achieve maximum runway utilisation and will minimise the risk of 'go-arounds'.
2. Standard Taxi Routes - After landing pilots must follow the appropriate Standard Taxi Route to the clearance limit specified in the table below. ATC Instruction will not normally be given for aircraft vacating at A1, B1 and D1.

Runway Exit Used	Clearance Limit	Via
A1	A8	TWY A
B1	A12	TWY B and TWY A
C1	As Instructed by ATC (Normally A15 or A16)	TWY C and TWY A
D1	A18	TWY D and TWY A

c) Code E/F aircraft must vacate the runway at the end (via A1 or D1) unless escorted by "follow-me" vehicle.

7 TRAINING

a) Flight Training and/or test flying is permitted subject to prior liaison with, and the agreement of EGPH ATC.

EGPH AD 2.21 NOISE ABATEMENT PROCEDURES

All aircraft inbound to or outbound from this aerodrome are required to conform to the following procedures, notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

a) Any aircraft using the aerodrome shall be operated in such a way that it will not cause a noise reading of more than 94 dBA Lmax by day 0600-2330 (0500-2230) or 87 dBA Lmax by night 2330-0600 (2230-0500) at the relevant noise monitoring terminal(s); the measured noise reading for the event will be taken as the highest recorded at any single noise monitoring terminal.

   The sites of the aircraft noise monitoring terminals relating to Edinburgh Airport are:

   - EDI 01 - Houston Industrial Estate, Livingston. NT 0620 6903 - *555418N 0033006W;
   - EDI 02 - Scottish Power, Broxburn. NT 0924 7061 - *555508N 0033202W;
   - EDI 03 - Cramond Kirk Manse, Cramond. NT 1902 7650 -*555829N 0031757W.

b) For visual approaches to Runway 06/24 the following limitations will apply:

   i. Propeller driven aircraft whose MTWA does not exceed 5700 KG will not join the final approach to the runway below 1000 FT AAL.
   ii. All visual approaches from the south to Runway 24 by aircraft with an MTWA in excess of 5700 KG are to be made from a position not less than 7 NM DME on the extended centreline. Aircraft are not to descend below 2000 FT QNH until after crossing the Firth of Forth coastline northbound. All visual approaches from the north to Runway 24 by aircraft with an MTWA in excess of 5700 KG are to be made from a position not less than 4 NM DME on the extended centreline. Aircraft approaching Runway 06 are to join the extended runway centreline at a height of not less than 1500 FT.

c) With the exception of aircraft in an emergency, between the hours of 2230-0630 (2130-0530), no visual approaches to Runway 06/24 are permitted for IFR aircraft. All IFR aircraft to carry out ILS approaches under ATC control.
d) Aircraft using the ILS shall not descend below 3000 FT (Edinburgh QNH), unless instructed by ATC, before intercepting the glidepath nor thereafter fly below it. Aircraft landing without assistance from ILS or radar shall follow a descent path which will not result in their being at any time lower than the nominal ILS glidepath.
e) The Noise Preferential Routeings specified in the following table are compatible with ATC requirements and the tracks are to be flown by all departing jet aircraft and by all other departing aircraft of more than 5700 KG MTWA unless otherwise instructed by ATC or unless deviations are required in the interests of safety.
f) Noise Preferential Routes must be strictly adhered to. Direct routeings etc offered by ATC should only be taken up after completion of the NPR, unless a mandatory instruction is given or an emergency situation prevails.

Take-off Runway	ATC Clearance	Procedure
06	Via TLA VOR	Climb straight ahead to I-VG D0.5 or 635 QNH, whichever is earlier, then turn left to track 043 then at I-VG D7 turn right onto track 143. At TLA VOR R023 (I-VG/ I-TH D12) turn right to intercept TLA VOR R025 to TLA VOR. NPR terminates at TLA VOR D30.
	Via SAB VOR or NATEB	Climb straight ahead to I-VG D0.5 or 635 QNH, whichever is earlier, then turn left to track 043 then at I-VG D7 turn right towards SAB or NATEB. **Warning:** Pilots are reminded that UK Danger Area EGD512B lies on the direct track from the end of the NPR to NATEB. NPR terminates at I-VG D7.
	Via GRICE	Climb straight ahead to I-VG D0.5 or 635 QNH, whichever is earlier, then turn left to track 043. At I-VG D3 turn left onto SAB VOR 285. Cross SAB D46 above 4500 (5.1%). NPR terminates at 3000.
	Via GOSAM (P600/UL612)	Climb straight ahead to I-VG D0.5 or 635 FT QNH, whichever is earlier, then turn left to track 043. Then At I-VG D3, turn left onto GOW VOR R076 to CUMBO. Cross GOW D35 at 5000 or above (8%). Cross GOW D30 at 6000. NPR terminates at 6000.
	Other Routes	Climb straight ahead to I-VG D0.5 or 635 QNH, whichever is earlier, then turn left to track 043, until I-VG D7 before turning on course. NPR terminates at I-VG D7.

Take-off Runway	ATC Clearance	Procedure
24	Via TLA VOR	Climb straight ahead to UW NDB. At I-TH D7 turn left onto TLA VOR R344 to TLA VOR. NPR terminates at I-TH D7.
	Via SAB VOR or NATEB	Climb straight ahead to UW NDB. At UW NDB turn left towards SAB VOR or NATEB. NPR terminates at 3000.
	Via GOSAM (P600/UL612)	Climb straight ahead to UW NDB. At UW NDB turn right onto UW NDB QDR 261 to MAVIX. Cross I-TH D9.5 at or above 4500 (7.7%). Cross I-TH D14 at 6000 (6.6%). NPR terminates at 6000.
	Via GRICE	Climb straight ahead to UW NDB. At UW NDB turn right onto TLA VOR R351. At TLA D32 turn left to intercept TLA VOR R346 to GRICE. Cross TLA D33 at or above 4000 (3.4%). NPR terminates at 3000.
	Other Routes	Climb straight ahead to UW NDB or 3000, whichever is earlier, before turning on course. NPR terminates at 3000.

g) For environmental reasons, aircraft commanders are requested to avoid the use of reverse thrust/pitch, between the hours of 2300-0600 (2200-0500).
h) With the exception of Military aircraft, aircraft which do not meet the standards specified in Part II, Chapter 3 of Volume 1 ICAO Annex 16 will not be permitted to operate to/from Edinburgh Airport.

EGPH AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Terminal Arrival Routes (STARs). The standard routes for inbound aircraft to Edinburgh are shown at AD 2.EGPH-7-1, AD 2.EGPH-7-2, AD 2.EGPH-7-3, AD 2.EGPH-7-4, AD 2.EGPH-7-5 and AD 2.EGPH-7-6.

b) **Inbound procedure other than via the ATS route network.**

i. Aircraft wishing to enter the CTR/CTA under IFR direct from the FIR must observe the normal procedure for joining Controlled Airspace. For aircraft joining from the North or Northeast, clearance via GRICE to L UW for Runway 06 or direct to L EDN for Runway 24 should be anticipated.
ii. Pilots inbound to Edinburgh under VFR must contact Edinburgh Approach Control prior to entering the CTR/CTA and may be required by ATC to route via the published Visual Reference Points.

c) **Speed**

Speeds published on the STARs should be adhered to unless ATC advise otherwise. Aircraft below FL100 should adhere to the speed limit of Max 250 KT. Tactical speed control may be applied by ATC as required. Pilots unable to comply with speed control must inform ATC Immediately stating the minimum speed acceptable.

2 APPROACH PROCEDURES WITH RADAR CONTROL

a) When Edinburgh inbound traffic is being sequenced by Radar, the Approach Procedures will be flown under directions from the Approach Radar Controller and will consist of that part of the approach between the Terminal Holding Fix and the Final Approach Path. When Holding procedures are not in use, radar sequencing may commence before the Terminal Holding Fix.
b) Pilots should plan their flight profile in such a manner as to be able to achieve the Minimum Holding Level at the appropriate holding point if so required.
c) When an aircraft is under Approach Radar Control, changes of heading or Flight Level/Altitude will be made only on instructions from the Radar Controller except in the case of radio communication failure in the aircraft or at the Radar Unit.
d) Headings and Flight Levels/Altitudes at which to leave the holding areas will be passed by ATC. Radar vectors will be given and descent clearance will include an estimate of track distance to touchdown. Further distance information will be given between the initial descent clearance and intercept heading to the ILS.
e) Speed Control may be applied on a tactical basis to the extent determined necessary by the Radar Controller. Aircraft unable to conform to the speeds specified by the Radar Controller should inform him immediately and state what speeds will be used. In the interests of accurate spacing pilots are requested to comply with speed adjustments as promptly as is feasible within their own operational constraints, and should advise ATC if circumstances necessitate a change of speed for aircraft performance reasons.
f) GPWS – Owing to the terrain profile to the south of Edinburgh, GPWS warnings are possible on intermediate approach to Runways 06 and 24.

3 APPROACH PROCEDURES WITHOUT RADAR CONTROL

a) When inbound traffic is not being sequenced by Radar, aircraft will be cleared from the Terminal Holding Facility via EDN or UW NDB to carry out an Instrument Approach Procedure appropriate to the landing direction.

b) When Runway 06 is in use, in order to expedite traffic, aircraft may be transferred from TARTN or STIRA holding pattern to UW NDB holding pattern prior to carrying out the Instrument Approach Procedure.
c) When Runway 24 is in use, in order to expedite traffic, aircraft may be transferred from TARTN or STIRA holding pattern to EDN NDB holding pattern prior to carrying out the Instrument Approach Procedure.
d) No visual approaches to Runway 06/24 are permitted for IFR aircraft between 2230-0630 (2130-0530). All IFR aircraft are to carry out a published Instrument Approach Procedure under ATC control with the exception of aircraft in emergency. This allows the continued operation when the CVCR is in use and ILS approaches are not available.

4 NOISE ABATEMENT CONTINUOUS DESCENT APPROACH PROCEDURES FOR TURBO-JET/ PROP AIRCRAFT

a) Turbo-jet and turbo-prop aircraft approaching Edinburgh Aerodrome will be expected to conform to the continuous descent and low-power, low-drag approach procedures. To facilitate this technique, aircraft should fly within the speed bands detailed at Paragraph 1, item d. In the interest of accurate spacing, ATC may request specific speeds and pilots are requested to comply with any speed adjustments as promptly as is feasible within their own operational constraints. If circumstances necessitate, a speed change for aircraft performance reasons, ATC should be advised accordingly.
b) Headings and Flight Levels/Altitudes will be passed by the Radar Controller. Aircraft will be radar vectored either from the holding facility or following transfer of control from the Area Control Unit to Edinburgh Approach. ATC will advise pilots of an estimate of the track distance to run to touchdown when clearance to descend below the Transition Altitude is given. Further information on the distance from touchdown will be given between this descent clearance and the instruction to turn onto the intercept heading to the ILS localizer.
c) On receipt of descent clearance the pilot will descend at the rate he judges will be best suited to a continuous descent, the object being to join the glidepath at the appropriate height for the distance, without recourse to level flight. Pilots are reminded that due to high ground southeast of the airport, descent below 3000 FT QNH will be in accordance with AD 2-EGPH-5-1
d) In the event of radar failure, new instructions will be issued to each aircraft under radar control and the procedures as defined for approach without radar control will be put into effect.
e) Military Jet aircraft – Radar vectoring for ILS approach is mandatory for military fast jet aircraft.

5 RADIO COMMUNICATIONS FAILURE PROCEDURES

In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedures notified at ENR 1.1, subsection 3 with the exceptions detailed below.

a) When complete communication failure occurs in the aircraft before ETA or before EAT when this has been received and acknowledged, the aircraft will:

   i. Fly to the appropriate holding point;
   ii. hold at the last assigned level until the last acknowledged ETA plus 10 minutes or EAT when this has been given;
   iii. then commence descent for landing in accordance with the procedure detailed on the Instrument Approach charts and effect a landing within 30 minutes (or later if able to land visually).

b) If complete radio communication failure occurs after an aircraft has reported to ATC on reaching the holding point, the aircraft will:

   i. Maintain the last assigned holding level at the appropriate holding point until:

      1. ATA over holding point plus 10 minutes or 10 minutes after the last acknowledged communication with ATC, whichever is the later; or
      2. EAT when this has been received and acknowledged;

   ii. then commence descent for landing in accordance with the procedure detailed on the Instrument Approach charts and effect a landing within 30 minutes (or later if able to land visually).

c) In the event of complete radio failure in an aircraft which has been cleared for an IFR inter-aerodrome flight within the Scottish TMA the pilot will adopt the appropriate procedure as follows, depending upon the phase of flight:

   i. If the aircraft is receiving a radar service and is within the ATCSMAC of the destination aerodrome, the pilot will adopt the appropriate loss of communication procedure for the runway-in-use as detailed in the ATCSMAC information at AD 2-EGPH-5-1. Landing must be effected within 30 minutes (or later if able to land visually);
   ii. If the aircraft is **either** not receiving a radar service or is receiving a radar service but has not yet arrived within the ATCSMAC of the destination aerodrome, the pilot will proceed to the appropriate holding point at the destination aerodrome at the last assigned level or 4000 FT whichever is higher. He will then adopt the procedures in paragraph's 5a or 5b.

d) The route and altitude to be used when leaving the CTR/CTA in accordance with the procedures at ENR 1.1, subsection 3 are shown in the table; the route to be followed is dependent on the position of the aircraft at the time the decision to leave the CTR is made.

Position at time of decision	Route
Edinburgh Airport EDN or UW NDB	Track 025°T from facility at 4000 FT ALT until crossing the Edinburgh CTR Boundary.

6 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Non-Airways IFR departing flights from Edinburgh routeing in the open FIR to the north or northeast should anticipate ATC clearance normally at an altitude below 6000 FT.

7 SPEED LIMIT

a) A speed limitation of 250 KT applies to all departures following SIDs whilst flying below FL 100 unless previously removed by ATC. ATC will endeavour to remove the speed limitation as soon as possible and will use the phrase 'No speed restriction'. The phrase must not be interpreted as relieving the pilot of his responsibility for the observance of any noise abatement procedures which may include a speed/ power limitation.

8 VFR FLIGHTS

a) VFR flights in the Control Zone will be given routeing instructions and/or altitude restrictions in order to integrate VFR flights with other traffic.
b) Pilots should anticipate routeing instructions via the Visual Reference Points detailed in paragraph 10 or the routes detailed in paragraph 11.
c) Pilots of VFR flights are reminded of the requirement to remain in VMC at all times and to comply with the relevant parts of SERA and the Rules of the Air Regulations 2015, and must advise ATC if at any time they are unable to comply with the instructions issued.
d) **Helicopters:** Whenever possible helicopter flights in the Edinburgh Control Zone will be cleared on direct routeings under VFR (or, when requested at night, on Special VFR clearance in accordance with the procedures for Special VFR flights)

9 SPECIAL VFR CLEARANCE

a) Clearance may be requested for Special VFR flight within the Edinburgh Control Zone and will be given whenever the traffic situation permits. These flights are subject to the general conditions laid down for Special VFR flights (ENR 1.2 refers).
b) Special VFR clearance will include routeing and maximum altitude instructions and may not necessarily be confined to the Entry/Exit Lanes detailed at paragraph 11.
c) Pilots are reminded that they must at all times when operating on Special VFR clearance, remain clear of cloud and in sight of the surface and in flight conditions which will enable them to determine their flight path and keep clear of obstacles. Due to the nature of the terrain in the vicinity of Edinburgh Airport radar vectoring will not normally be applied to aircraft operating on Special VFR clearance.
d) Pilots are reminded that a Special VFR clearance applies only to flight within the CTR and does not extend to flight within the surrounding Airspace of the Scottish Terminal Control Area.
e) Special VFR clearance will not normally be granted for flights operating in VMC or for flights by aircraft exceeding 5700 KG MTWA.

10 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

11 GLIDING OPERATIONS KIRKNEWTON

a) Gliding operations - Edinburgh CTR

i. Gliding operations are carried out at RAF Kirknewton by 661 Volunteer Gliding Squadron (VGS). Activity is co-ordinated with ATC and gliders can be expected in the agreed Delegated Gliding Area.
ii. The RAF Kirknewton Delegated Gliding Area (DGA) is defined by the lateral limits:

1. 555320N 0032415W – 555338N 0032053W (Ravelrig Road rail bridge between Balerno & Dalmahoy) – 555121N 0032048W (Western corner of Threipmuir Reservoir) – 554959N 0032545W (Eastern corner of Harperigg Reservoir) – 555211N 0032601W thence clockwise by an arc of a circle radius 1.3 NM centred on 555213N 0032401W to 555320N 0032415W.
2. Up to 2500 FT AMSL, this is known as DGA-circuit.
3. Up to 3700 FT AMSL, this is known as DGA-soaring.

iii. ATC may tactically manage traffic to avoid the area if appropriate.
iv. ATC will advise other aircraft of gliding activity as appropriate.

12 ENTRY/EXIT LANES

a) To permit aircraft to operate to and from Edinburgh Airport in IMC but not under IFR the following entry/exit lanes have been established for use, under the conditions stated, as follows:

i.

1. a lane 3 NM wide, known as the Polmont Lane, with centre-line the M9 Motorway extending from Grangemouth (near the western boundary of the Edinburgh Control Zone) eastwards, via the Polmont Roundabout, Linlithgow Loch and Philpstoun to a point at which it joins the Edinburgh Aerodrome Traffic Zone;
2. a lane 3 NM wide, known as the Kelty Lane, with centre-line the M90 Motorway extending from Kelty (near the northern boundary of the Edinburgh Control Zone) southwards to M90 Junc 1B, then with the centre-line the A9000 across the Forth Road Bridge to M90 Junc 1, then with the centre-line the M90 Motorway to a point at which it joins the Edinburgh Aerodrome Traffic Zone;

ii. use of the lanes is subject to clearance being obtained from ATC Edinburgh, irrespective of prevailing weather conditions. This clearance is to be obtained by non-radio equipped aircraft before take-off and by radio equipped aircraft before entering the lane;
iii. aircraft using the lanes must remain clear of cloud and in sight of the ground or water, not above 2000 FT (Edinburgh QNH), and in flight visibility of not less than 3 KM;

iv. an aircraft using a lane shall keep the centre-line on its left, unless otherwise instructed by ATC for separation purposes. In these circumstances ATC will pass traffic information to the aircraft concerned;
v. pilots of aircraft are responsible for maintaining adequate clearance from the ground or other obstacles.

b) Additionally, to permit the effective integration of traffic, flights operating in VMC and under VFR may be required by ATC to follow these routes as detailed in paragraph 8.

13 AERODROME OPERATING MINIMA - NON-PUBLIC TRANSPORT FLIGHTS: REFER TO AD 1.1 SUBSECTION 4 BEFORE APPLICATION

Approach Lighting Category	Runway	Approach Aid	OCH (FT) Acft CAT A See IAC for other CATs	Minima	
				DH/MDH (FT) Caution See AD 1.1 subsection 4	RVR (M)
1	2	3	4	5	6
Runway 06 Full	06	ILS/DME	135	250	600
	06	LOC/DME (also without DME)	480	480	1000
	06	NDB(L)/DME (also without DME)	580	580	1000
Runway 24 Full	24	ILS/DME	145	250	600
	24	LOC/DME (also without DME)	440	440	900
	24	NDB(L)/DME (also without DME)	500	500	1000

14 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Edinburgh controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Edinburgh Radar frequency, 121.205 MHz, are encouraged to select SSR code 0440.

553627N 0035327W - 553648N 0024753W -
560117N 0023955W - 561156N 0025112W -
561150N 0034633W - 555724N 0035417W -
554806N 0035411W - 553627N 0035327W.

b) Selection of code 0440 does not imply receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of controlled airspace.
c) Whilst squawking 0440, pilots should be aware that Edinburgh Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 0440 shall be deselected.

EGPH AD 2.23 ADDITIONAL INFORMATION

a) For wildlife hazard management purposes, a bird scaring laser is deployed and utilised by the Airside Operations team.

EGPH AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPH-2-1
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO
AD 2.EGPH-2-2
AERODROME CHART CODE E AIRCRAFT GROUND MOVEMENT - ICAO
AD 2.EGPH-2-3
CONTROL ZONE and CONTROL AREA CHART - ENTRY/EXIT LANES and VRPS
AD 2.EGPH-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGPH-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) GOSAM (Jet aircraft only) - ICAO
AD 2.EGPH-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) TALLA - ICAO
AD 2.EGPH-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) GRICE - ICAO
AD 2.EGPH-6-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) PTH 1G - ICAO
AD 2.EGPH-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) INPIP 1E - ICAO
AD 2.EGPH-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) AGPED 1E - ICAO
AD 2.EGPH-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) GIRVA 1E - ICAO
AD 2.EGPH-7-4
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) TUNSO 1E - ICAO
AD 2.EGPH-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES PTH 1G INPIP 1E AGPED 1E GIRVA 1E TUNSO 1E
AD 2.EGPH-7-6
RNAV HOLD CODING TABLE STIRA TARTN
AD 2.EGPH-7-7
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 06 - ICAO
AD 2.EGPH-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 06 - ICAO
AD 2.EGPH-8-2
INSTRUMENT APPROACH CHART NDB/DME RWY 06 - ICAO
AD 2.EGPH-8-3
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 24 - ICAO
AD 2.EGPH-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 24 - ICAO
AD 2.EGPH-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 24 - ICAO
AD 2.EGPH-8-6

EGPH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 555700N 0032221W

AD ELEV 112FT

EDINBURGH
EGPH

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
RWY 06/24	Grooved Asphalt	68/R/B/W/T	-
Main Apron	Concrete	72/R/C/W/T	97 ft amsl
North Apron	Block Paving	31/F/C/X/T	103 ft amsl
East Apron	Concrete	79/R/D/W/T	-
Southeast Apron	Concrete	72/R/C/W/T	-
Turnhouse Apron	Concrete	90/R/D/W/T	-
GA Apron	Concrete	90/R/D/W/T	-
TWY A (A1 to A8 & A16 to D1)	Concrete	120/R/C/W/T	-
TWY A (A8 to A16)	Asphalt	70/F/A/W/T	-
TWY E, F	Concrete	72/R/C/W/T	-
TWY G, H	Concrete	90/R/D/W/T	-
TWY L	Concrete	131/R/D/W/T	-
TWY M (M1 to M2 and M2 to M3)	Asphalt	58/F/B/X/T	-
TWY M (M3 to Twy S), TWY Q	Asphalt	31/F/C/X/T	-
TWY P	Asphalt	82/R/D/W/T	-
TWY S	Concrete	79/R/D/W/T	-

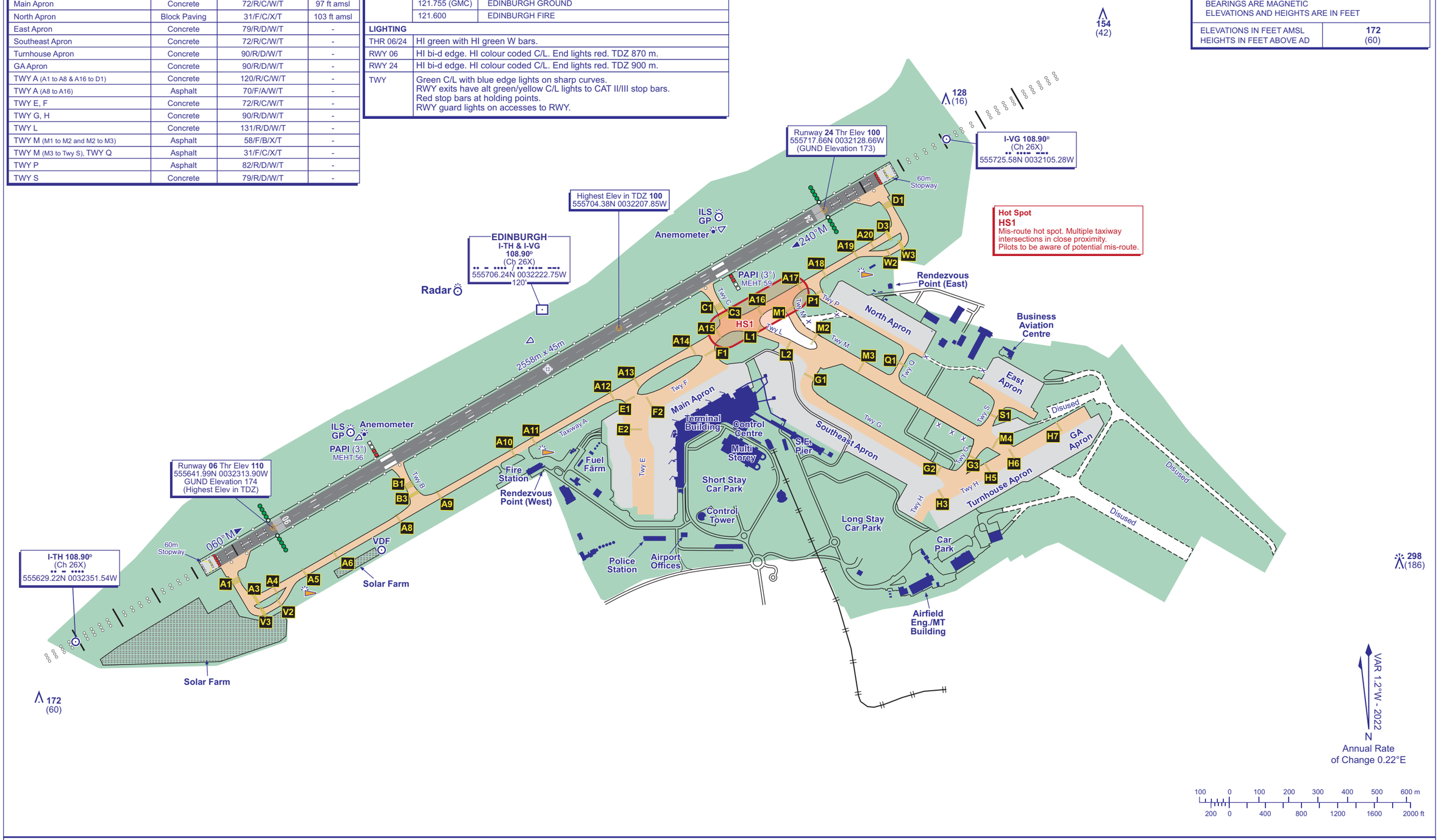
COM		
ATIS	131.355	EDINBURGH TERMINAL INFO
TWR	118.705	EDINBURGH TOWER
	121.755 (GMC)	EDINBURGH GROUND
	121.600	EDINBURGH FIRE

LIGHTING	
THR 06/24	HI green with HI green W bars.
RWY 06	HI bi-d edge. HI colour coded C/L. End lights red. TDZ 870 m.
RWY 24	HI bi-d edge. HI colour coded C/L. End lights red. TDZ 900 m.
TWY	Green C/L with blue edge lights on sharp curves. RWY exits have alt green/yellow C/L lights to CAT II/III stop bars. Red stop bars at holding points. RWY guard lights on accesses to RWY.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	**172**
HEIGHTS IN FEET ABOVE AD	(60)



CHANGE (8/25): AD ELEV REVISED. RWY 24 HIGHEST ELEV IN TDZ REVISED. SOLAR FARMS. OBSTACLES REVISED.

AERO INFO DATE 21 MAY 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

ARP 555700N 0032221W

AD ELEV 112FT

EDINBURGH
EGPH

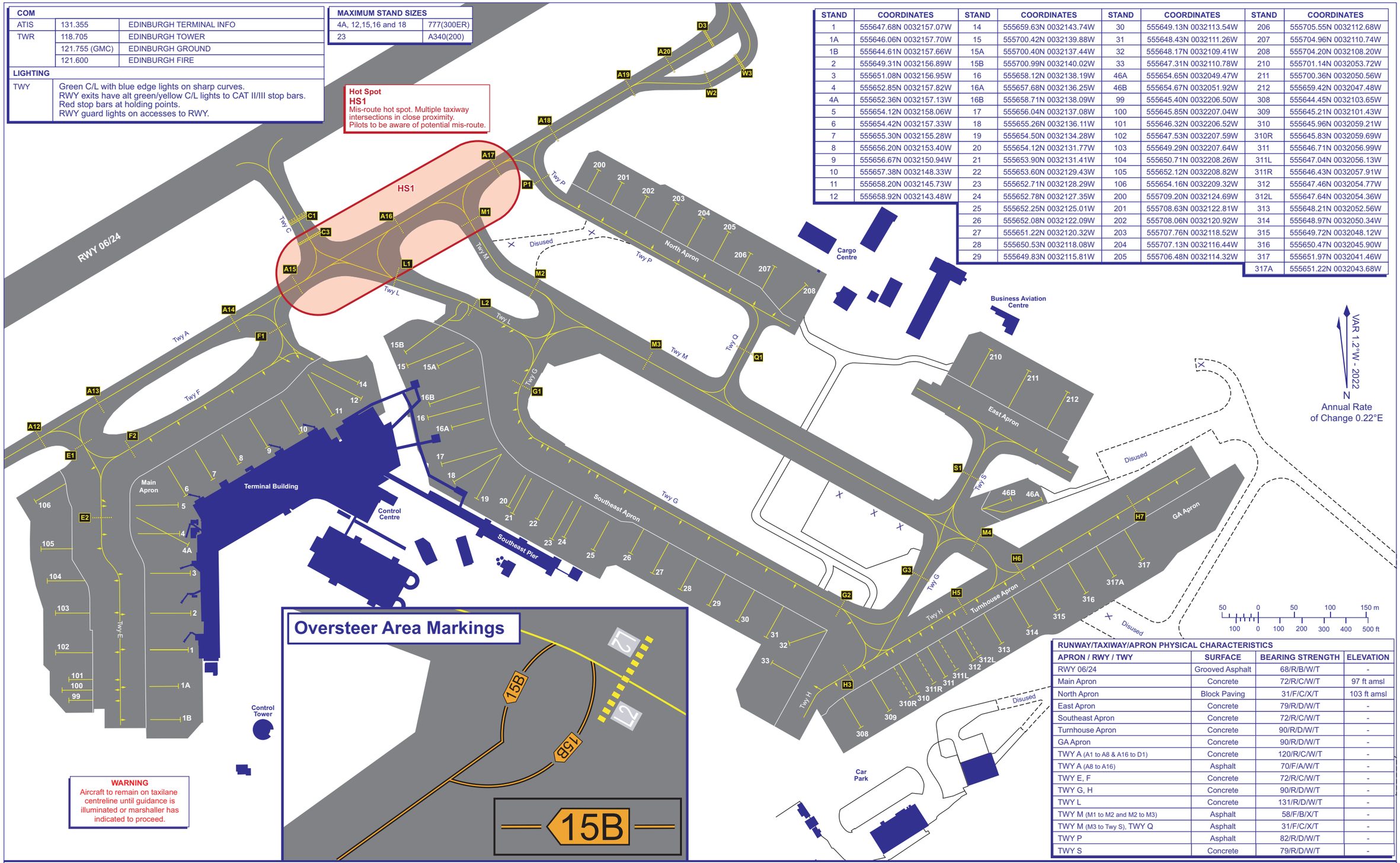
COM		
ATIS	131.355	EDINBURGH TERMINAL INFO
TWR	118.705	EDINBURGH TOWER
	121.755 (GMC)	EDINBURGH GROUND
	121.600	EDINBURGH FIRE

LIGHTING	
TWY	Green C/L with blue edge lights on sharp curves. RWY exits have alt green/yellow C/L lights to CAT II/III stop bars. Red stop bars at holding points. RWY guard lights on accesses to RWY.

MAXIMUM STAND SIZES	
4A, 12,15,16 and 18	777(300ER)
23	A340(200)

Hot Spot
HS1
Mis-route hot spot. Multiple taxiway intersections in close proximity.
Pilots to be aware of potential mis-route.

STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES
1	555647.68N 0032157.07W	14	555659.63N 0032143.74W	30	555649.13N 0032113.54W	206	555705.55N 0032112.68W
1A	555646.06N 0032157.70W	15	555700.42N 0032139.88W	31	555648.43N 0032111.26W	207	555704.96N 0032110.74W
1B	555644.61N 0032157.66W	15A	555700.40N 0032137.44W	32	555648.17N 0032109.41W	208	555704.20N 0032108.20W
2	555649.31N 0032156.89W	15B	555700.99N 0032140.02W	33	555647.31N 0032110.78W	210	555701.14N 0032053.72W
3	555651.08N 0032156.95W	16	555658.12N 0032138.19W	46A	555654.65N 0032049.47W	211	555700.36N 0032050.56W
4	555652.85N 0032157.82W	16A	555657.68N 0032136.25W	46B	555654.67N 0032051.92W	212	555659.42N 0032047.48W
4A	555652.36N 0032157.13W	16B	555658.71N 0032138.09W	99	555645.40N 0032206.50W	308	555644.45N 0032103.65W
5	555654.12N 0032158.06W	17	555656.04N 0032137.08W	100	555645.85N 0032207.04W	309	555645.21N 0032101.43W
6	555654.42N 0032157.33W	18	555655.26N 0032136.11W	101	555646.32N 0032206.52W	310	555645.96N 0032059.21W
7	555655.30N 0032155.28W	19	555654.50N 0032134.28W	102	555647.53N 0032207.59W	310R	555645.83N 0032059.69W
8	555656.20N 0032153.40W	20	555654.12N 0032131.77W	103	555649.29N 0032207.64W	311	555646.71N 0032056.99W
9	555656.67N 0032150.94W	21	555653.90N 0032131.41W	104	555650.71N 0032208.26W	311L	555647.04N 0032056.13W
10	555657.38N 0032148.33W	22	555653.60N 0032129.43W	105	555652.12N 0032208.82W	311R	555646.43N 0032057.91W
11	555658.20N 0032145.73W	23	555652.71N 0032128.29W	106	555654.16N 0032209.32W	312	555647.46N 0032054.77W
12	555658.92N 0032143.48W	24	555652.78N 0032127.35W	200	555709.20N 0032124.69W	312L	555647.64N 0032054.36W
		25	555652.25N 0032125.01W	201	555708.63N 0032122.81W	313	555648.21N 0032052.56W
		26	555652.08N 0032122.09W	202	555708.06N 0032120.92W	314	555648.97N 0032050.34W
		27	555651.22N 0032120.32W	203	555707.76N 0032118.52W	315	555649.72N 0032048.12W
		28	555650.53N 0032118.08W	204	555707.13N 0032116.44W	316	555650.47N 0032045.90W
		29	555649.83N 0032115.81W	205	555706.48N 0032114.32W	317	555651.97N 0032041.46W
						317A	555651.22N 0032043.68W



WARNING
Aircraft to remain on taxilane centreline until guidance is illuminated or marshaller has indicated to proceed.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 06/24	Grooved Asphalt	68/R/B/W/T	-
Main Apron	Concrete	72/R/C/W/T	97 ft amsl
North Apron	Block Paving	31/F/C/X/T	103 ft amsl
East Apron	Concrete	79/R/D/W/T	-
Southeast Apron	Concrete	72/R/C/W/T	-
Turnhouse Apron	Concrete	90/R/D/W/T	-
GA Apron	Concrete	90/R/D/W/T	-
TWY A (A1 to A8 & A16 to D1)	Concrete	120/R/C/W/T	-
TWY A (A8 to A16)	Asphalt	70/F/A/W/T	-
TWY E, F	Concrete	72/R/C/W/T	-
TWY G, H	Concrete	90/R/D/W/T	-
TWY L	Concrete	131/R/D/W/T	-
TWY M (M1 to M2 and M2 to M3)	Asphalt	58/F/B/X/T	-
TWY M (M3 to Twy S), TWY Q	Asphalt	31/F/C/X/T	-
TWY P	Asphalt	82/R/D/W/T	-
TWY S	Concrete	79/R/D/W/T	-

CHANGE (9/25): STAND 34 REMOVED.

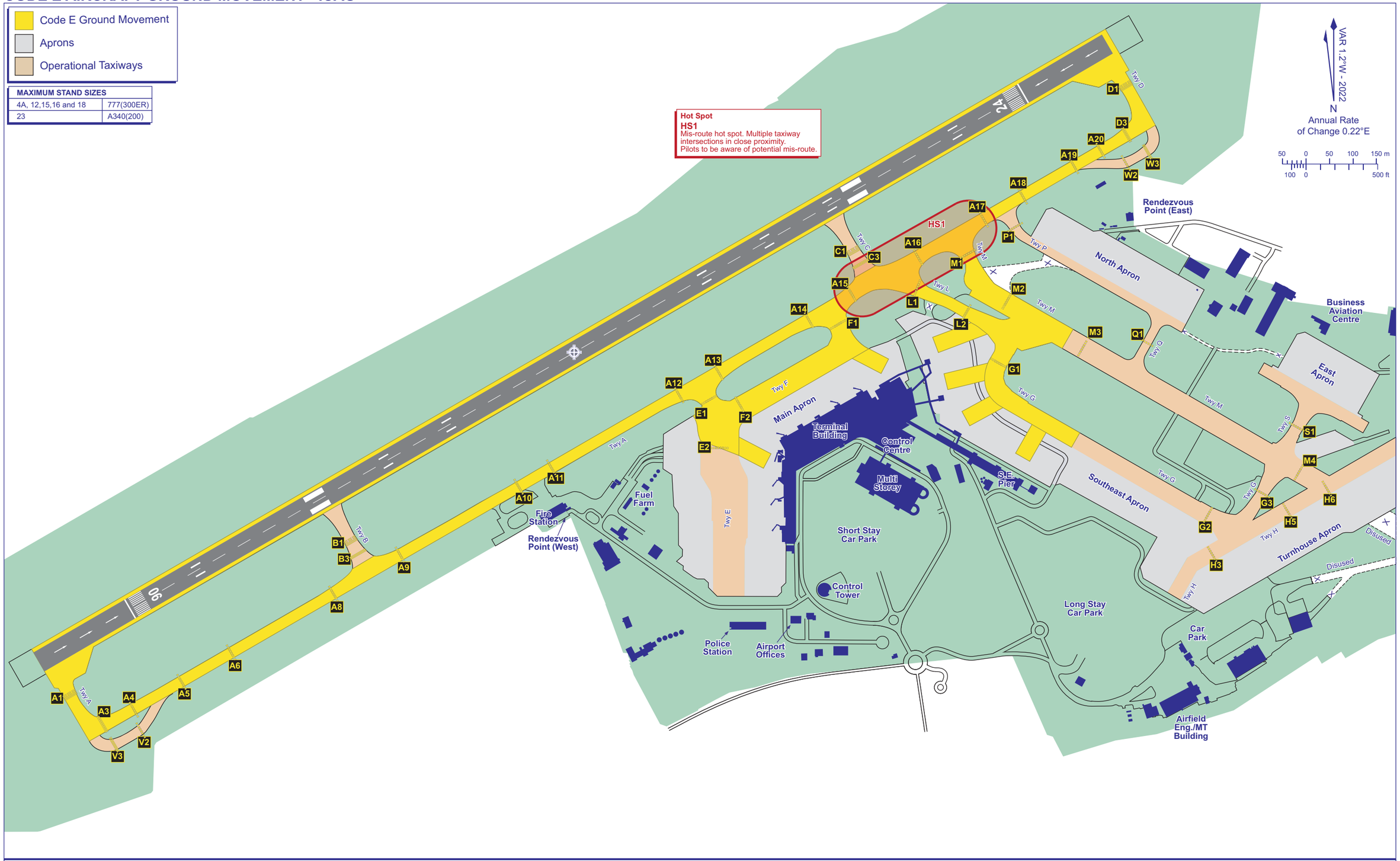
AERO INFO DATE 05 JUN 25

AERODROME CHART
CODE E AIRCRAFT GROUND MOVEMENT - ICAO

ARP 555700N 0032221W

AD ELEV 112FT

EDINBURGH
EGPH



CHANGE (8/25): AD ELEV REVISED.

AERO INFO DATE 15 MAY 25

AD 2-EGPH-2-3

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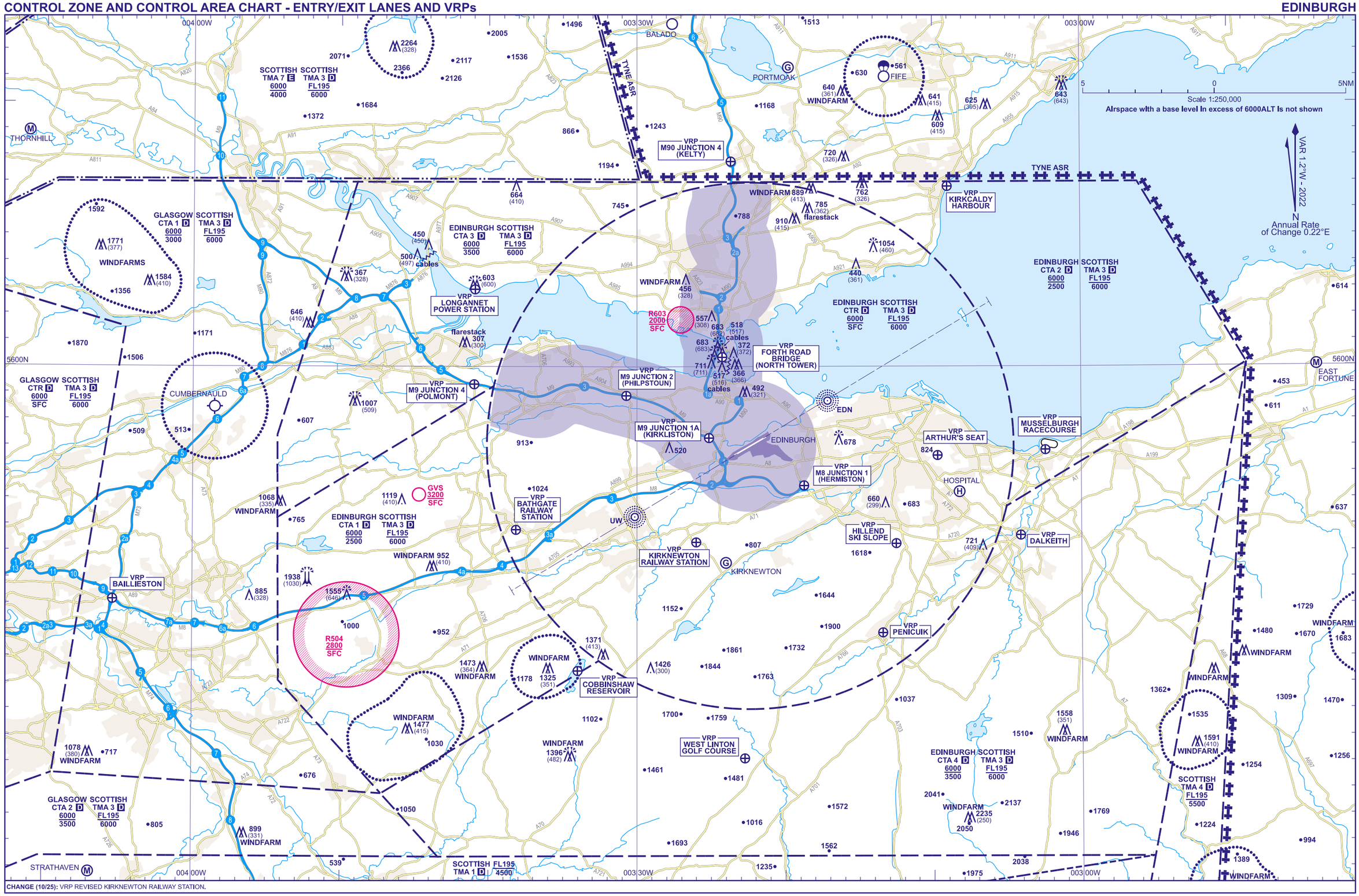
CONTROL ZONE AND CONTROL AREA CHART - ENTRY/EXIT LANES AND VRPs

EDINBURGH



CHANGE (10/25): VRP REVISED KIRKNEWTON RAILWAY STATION.

AERO INFO DATE 14 JUL 25

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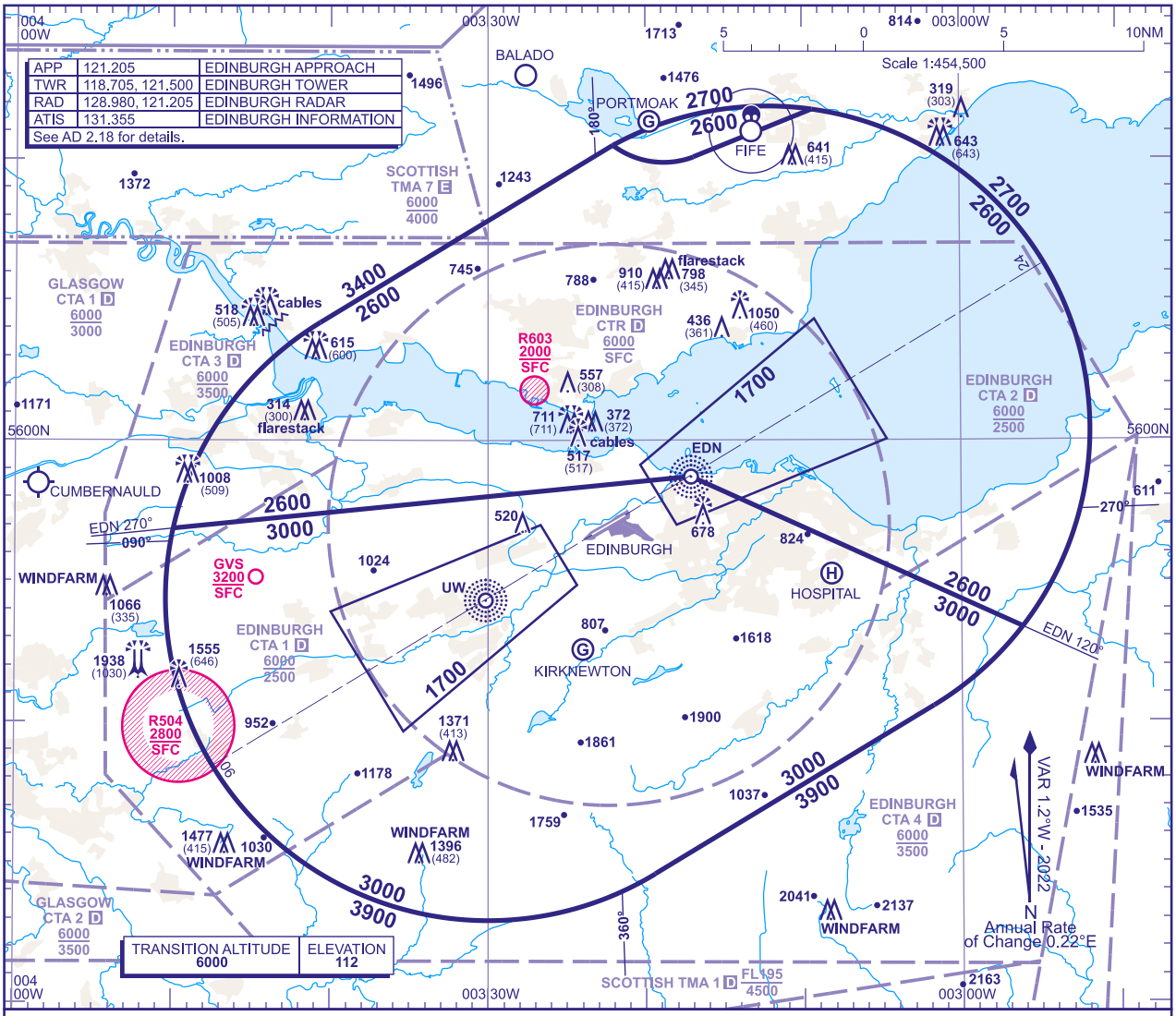
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1938
HEIGHTS IN FEET AGL (1030)

EDINBURGH



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2600** in the sector defined by the lateral limits: 560412N 0034039W - 561030N 0032203W thence anti-clockwise by an arc of a circle radius 3NM centred on 561253N 0031848W to 561005N 0031656W - 561146N 0030923W thence clockwise by an arc of a circle radius 11.5NM centred on 560024N 0031217W to 555321N 0025608W - 555843N 0031708W - 555652N 0034958W thence clockwise by an arc of a circle radius 11.5NM centred on 555424N 0033000W to 560412N 0034039W.

b) **2600** in the sector defined by the lateral limits: 561030N 0032203W thence clockwise by an arc of a circle radius 11.5NM centred on 560024N 0031217W to 561146N 0030923W - 561005N 0031656W thence clockwise by an arc of a circle radius 3NM centred on 561253N 0031848W to 561030N 0032203W.

c) **3000** in the sector defined by the lateral limits: 555652N 0034958W - 555843N 0031708W - 555321N 0025608W thence clockwise by an arc of a circle radius 11.5NM centred on 560024N 0031217W to 555033N 0030147W - 554435N 0031927W thence clockwise by an arc of a circle radius 11.5NM centred on 555424N 0033000W to 555652N 0034958W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.
*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher to **NDB(L) EDN**†, except for RWY 06, in which case proceed to **NDB(L) UW**.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) EDN**†, except for RWY 06, in which case proceed to **NDB(L) UW**.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4 or the procedure for Scottish TMA & Edinburgh CTR detailed at (EGPH AD 2.22).

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (8/25): AD ELEVATION REVISED. AREAS A, B MINIMUM INITIAL ALTITUDES REVISED.

AERO INFO DATE 19 MAY 25

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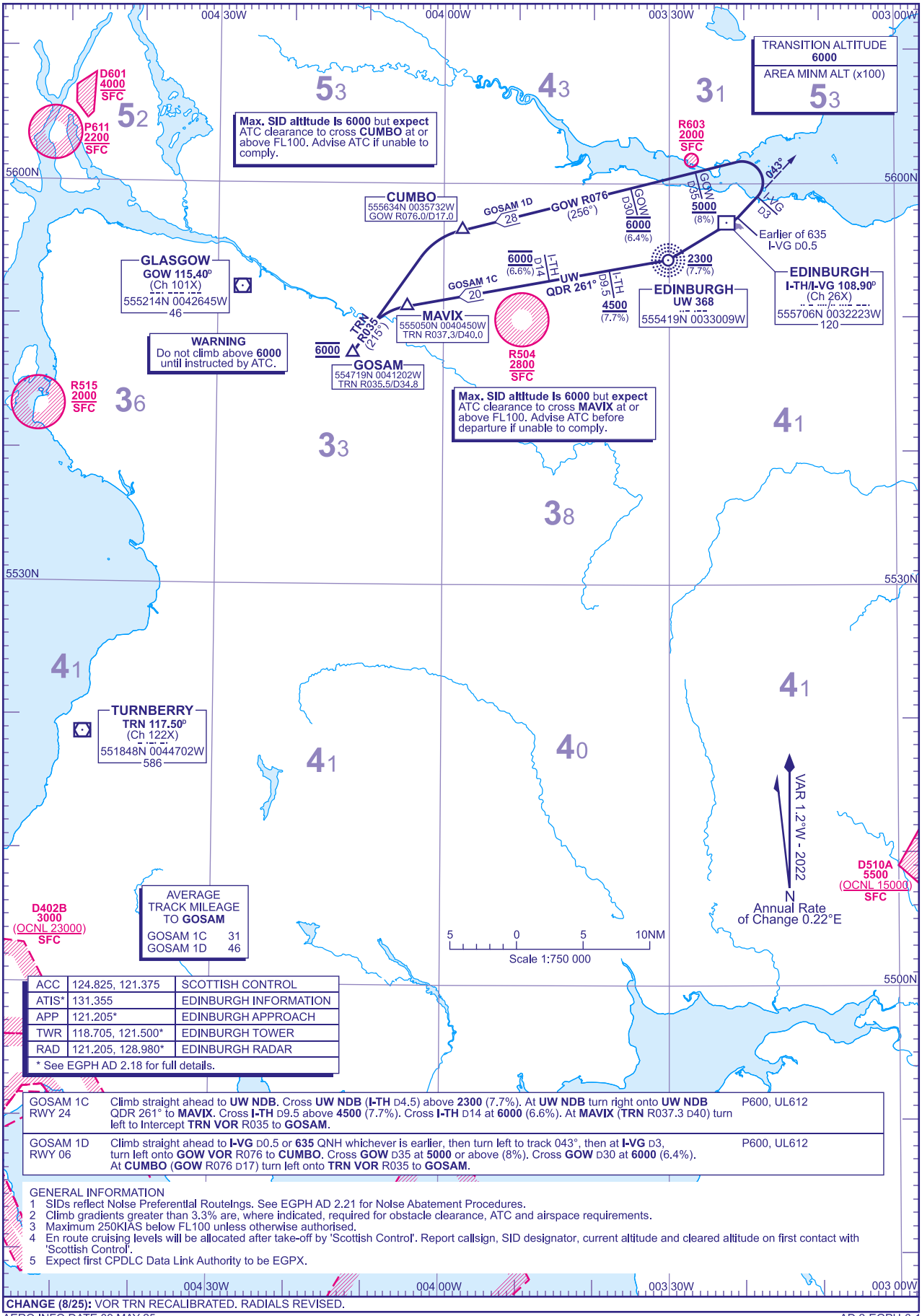
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

EDINBURGH
GOSAM (Jet aircraft only)



ACC	124.825, 121.375	SCOTTISH CONTROL
ATIS*	131.355	EDINBURGH INFORMATION
APP	121.205*	EDINBURGH APPROACH
TWR	118.705, 121.500*	EDINBURGH TOWER
RAD	121.205, 128.980*	EDINBURGH RADAR

* See EGPH AD 2.18 for full details.

GOSAM 1C RWY 24	Climb straight ahead to **UW NDB**. Cross **UW NDB** (**I-TH** D4.5) above **2300** (7.7%). At **UW NDB** turn right onto **UW NDB** QDR 261° to **MAVIX**. Cross **I-TH** D9.5 above **4500** (7.7%). Cross **I-TH** D14 at **6000** (6.6%). At **MAVIX** (**TRN** R037.3 D40) turn left to Intercept **TRN VOR** R035 to **GOSAM**.	P600, UL612
GOSAM 1D RWY 06	Climb straight ahead to **I-VG** D0.5 or **635** QNH whichever is earlier, then turn left to track 043°, then at **I-VG** D3, turn left onto **GOW VOR** R076 to **CUMBO**. Cross **GOW** D35 at **5000** or above (8%). Cross **GOW** D30 at **6000** (6.4%). At **CUMBO** (**GOW** R076 D17) turn left onto **TRN VOR** R035 to **GOSAM**.	P600, UL612

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGPH AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are, where indicated, required for obstacle clearance, ATC and airspace requirements.
3 Maximum 250KIAS below FL100 unless otherwise authorised.
4 En route cruising levels will be allocated after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
5 Expect first CPDLC Data Link Authority to be EGPX.

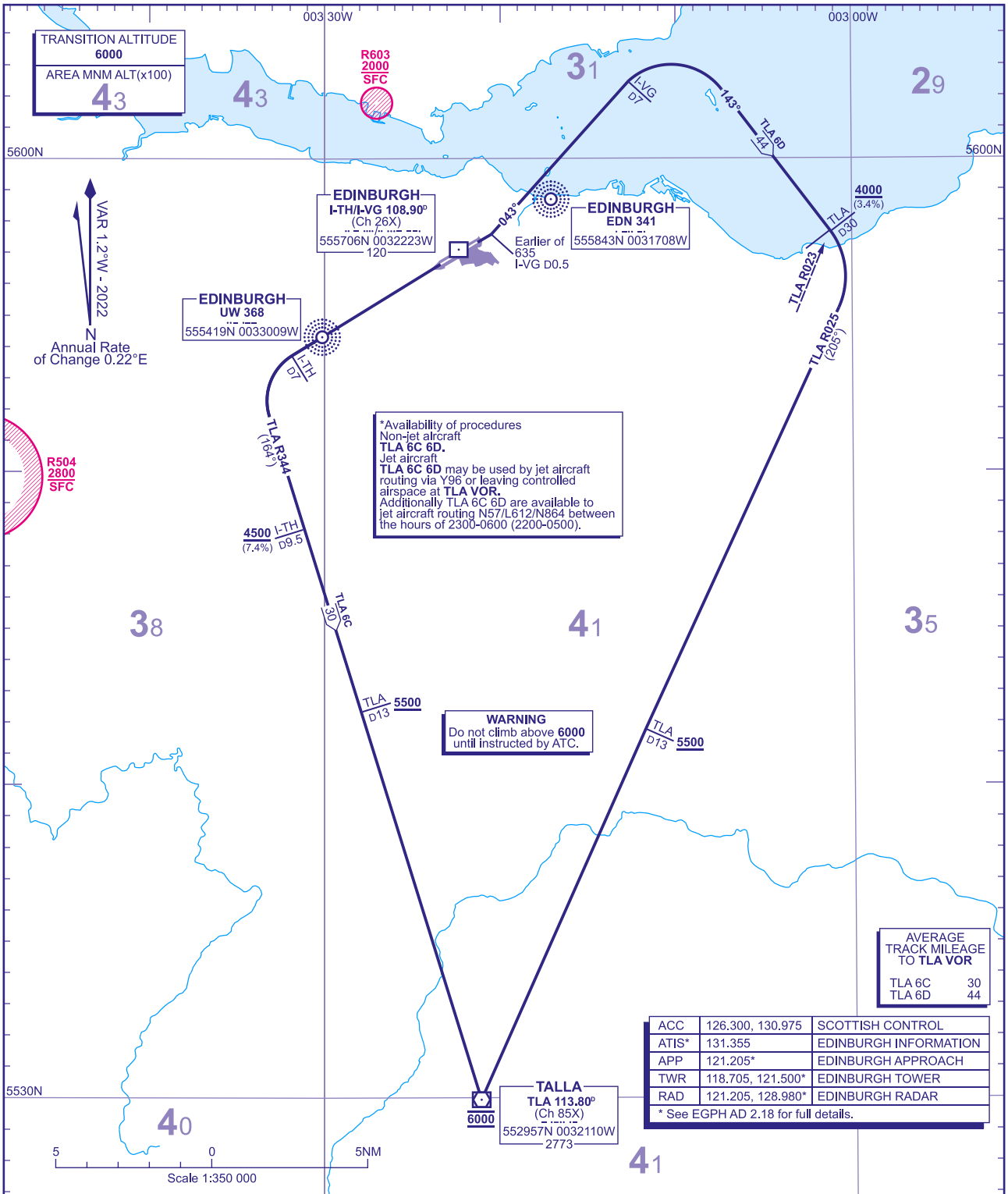
CHANGE (8/25): VOR TRN RECALIBRATED. RADIALS REVISED.

AERO INFO DATE 09 MAY 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

EDINBURGH
TALLA



AVERAGE TRACK MILEAGE TO TLA VOR

TLA 6C	30
TLA 6D	44

ACC	126.300, 130.975	SCOTTISH CONTROL
ATIS*	131.355	EDINBURGH INFORMATION
APP	121.205*	EDINBURGH APPROACH
TWR	118.705, 121.500*	EDINBURGH TOWER
RAD	121.205, 128.980*	EDINBURGH RADAR

* See EGPH AD 2.18 for full details.

TLA 6C* RWY 24 Non-Jet A/C	Climb straight ahead over **UW NDB**. At **I-TH** D7 turn left onto **TLA VOR** R344 TO **TLA VOR**. Cross **I-TH** D9.5 at or above **4500** (7.4%), then resume normal climb (3.3%). Cross **TLA** D13 above **5500**. Cross **TLA VOR** at **6000**.
TLA 6D* RWY 06 Non-Jet A/C	Climb straight ahead to **I-VG** D0.5 or **635** QNH whichever is earlier, then turn left to track 043°, then at **I-VG** D7, turn right onto track 143°. At **TLA VOR** R023 (**I-VG**/**I-TH** D12) turn right to intercept **TLA VOR** R025 to **TLA VOR**. Cross **TLA VOR** D30 at or above **4000** (3.4%), then resume normal climb (3.3%). Cross **TLA** D13 above **5500**. Cross **TLA VOR** at **6000**.

*TLA 6C 6D. Jet aircraft. TLA 6C 6D may be used by jet aircraft routing via Y96 or leaving controlled airspace at **TLA VOR**. Additionally TLA 6C 6D are available to jet aircraft routing N57/L612/N864 between the hours of 2300-0600 (2200-0500).

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGPH AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are, where indicated, required for obstacle clearance, ATC and airspace requirements.
3 Maximum 250KIAS below FL100 unless otherwise authorised.
4 En route cruising levels will be allocated after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.

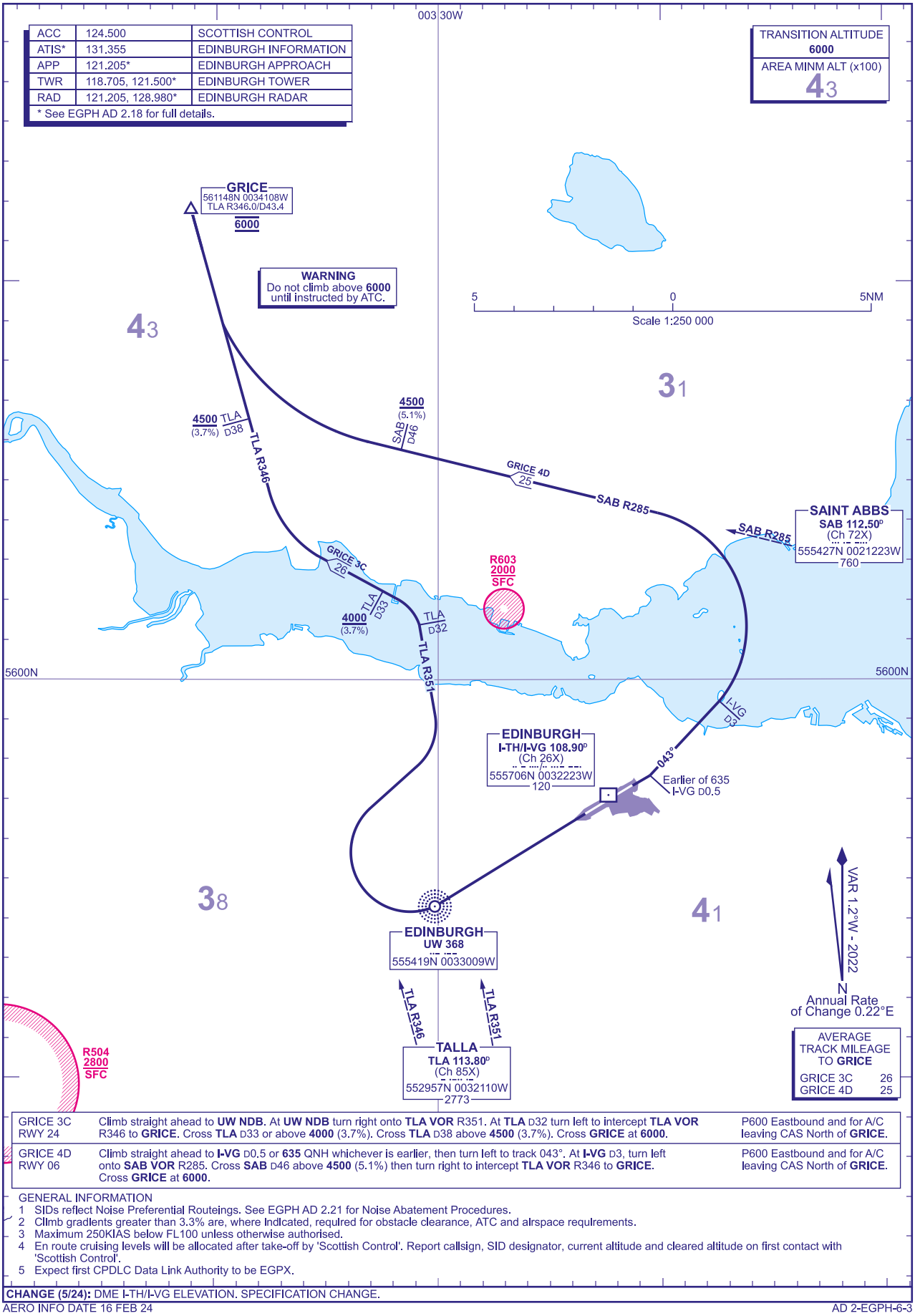
CHANGE (7/25): ACC FREQUENCY ADDED.

AERO INFO DATE 08 APR 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

EDINBURGH
GRICE



GRICE 3C RWY 24	Climb straight ahead to **UW NDB**. At **UW NDB** turn right onto **TLA VOR** R351. At **TLA** D32 turn left to intercept **TLA VOR** R346 to **GRICE**. Cross **TLA** D33 or above **4000** (3.7%). Cross **TLA** D38 above **4500** (3.7%). Cross **GRICE** at **6000**.	P600 Eastbound and for A/C leaving CAS North of **GRICE**.
GRICE 4D RWY 06	Climb straight ahead to **I-VG** D0.5 or **635** QNH whichever is earlier, then turn left to track 043°. At **I-VG** D3, turn left onto **SAB VOR** R285. Cross **SAB** D46 above **4500** (5.1%) then turn right to intercept **TLA VOR** R346 to **GRICE**. Cross **GRICE** at **6000**.	P600 Eastbound and for A/C leaving CAS North of **GRICE**.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGPH AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are, where Indicated, required for obstacle clearance, ATC and airspace requirements.
3 Maximum 250KIAS below FL100 unless otherwise authorised.
4 En route cruising levels will be allocated after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
5 Expect first CPDLC Data Link Authority to be EGPX.

CHANGE (5/24): DME I-TH/I-VG ELEVATION. SPECIFICATION CHANGE.

AERO INFO DATE 16 FEB 24

AD 2-EGPH-6-3

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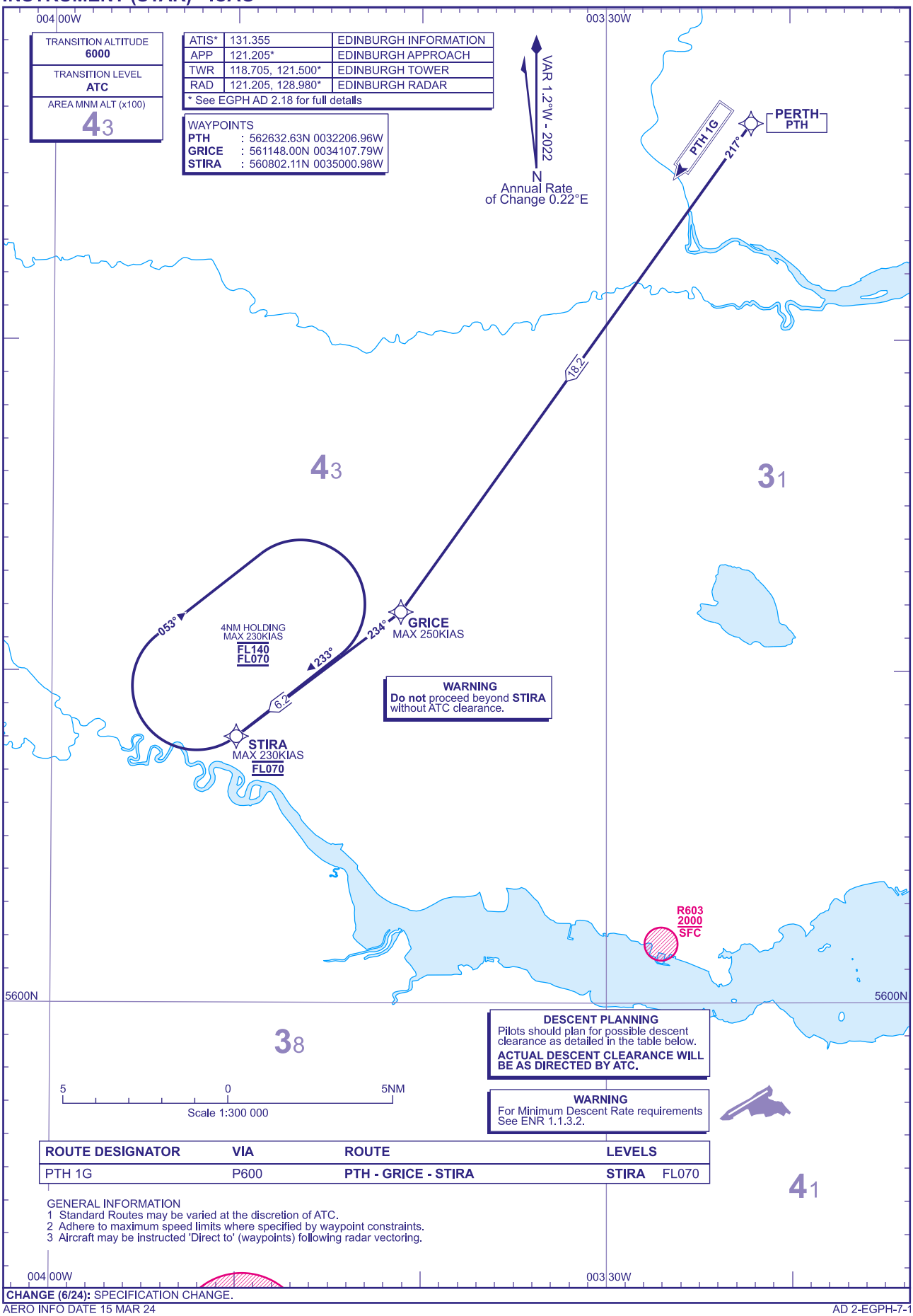
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EDINBURGH PTH 1G



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
PTH 1G	P600	PTH - GRICE - STIRA	STIRA FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.

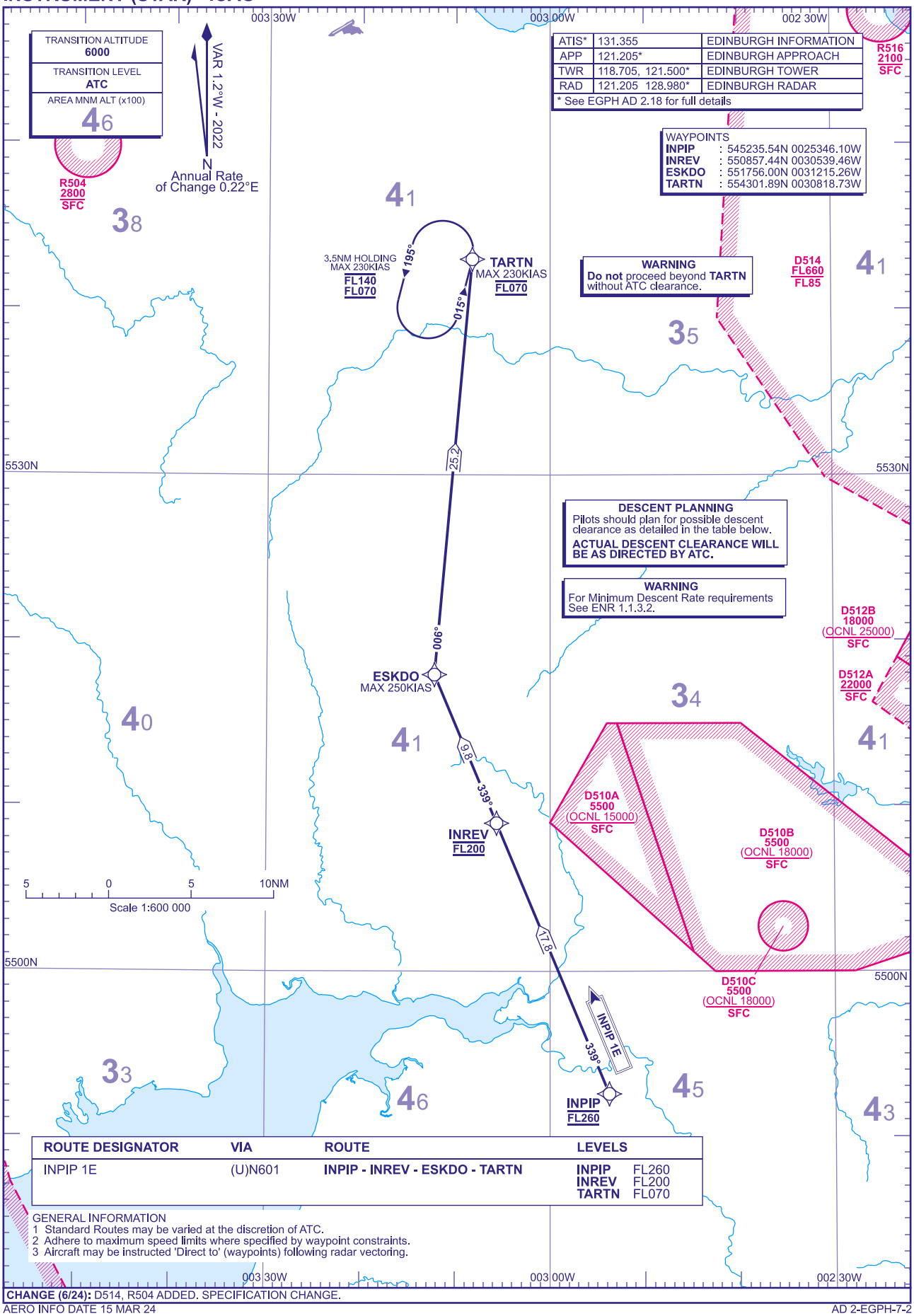
CHANGE (6/24): SPECIFICATION CHANGE.

AERO INFO DATE 15 MAR 24

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EDINBURGH INPIP 1E



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
INPIP 1E	(U)N601	INPIP - INREV - ESKDO - TARTN	INPIP FL260 INREV FL200 TARTN FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.

CHANGE (6/24): D514, R504 ADDED. SPECIFICATION CHANGE.

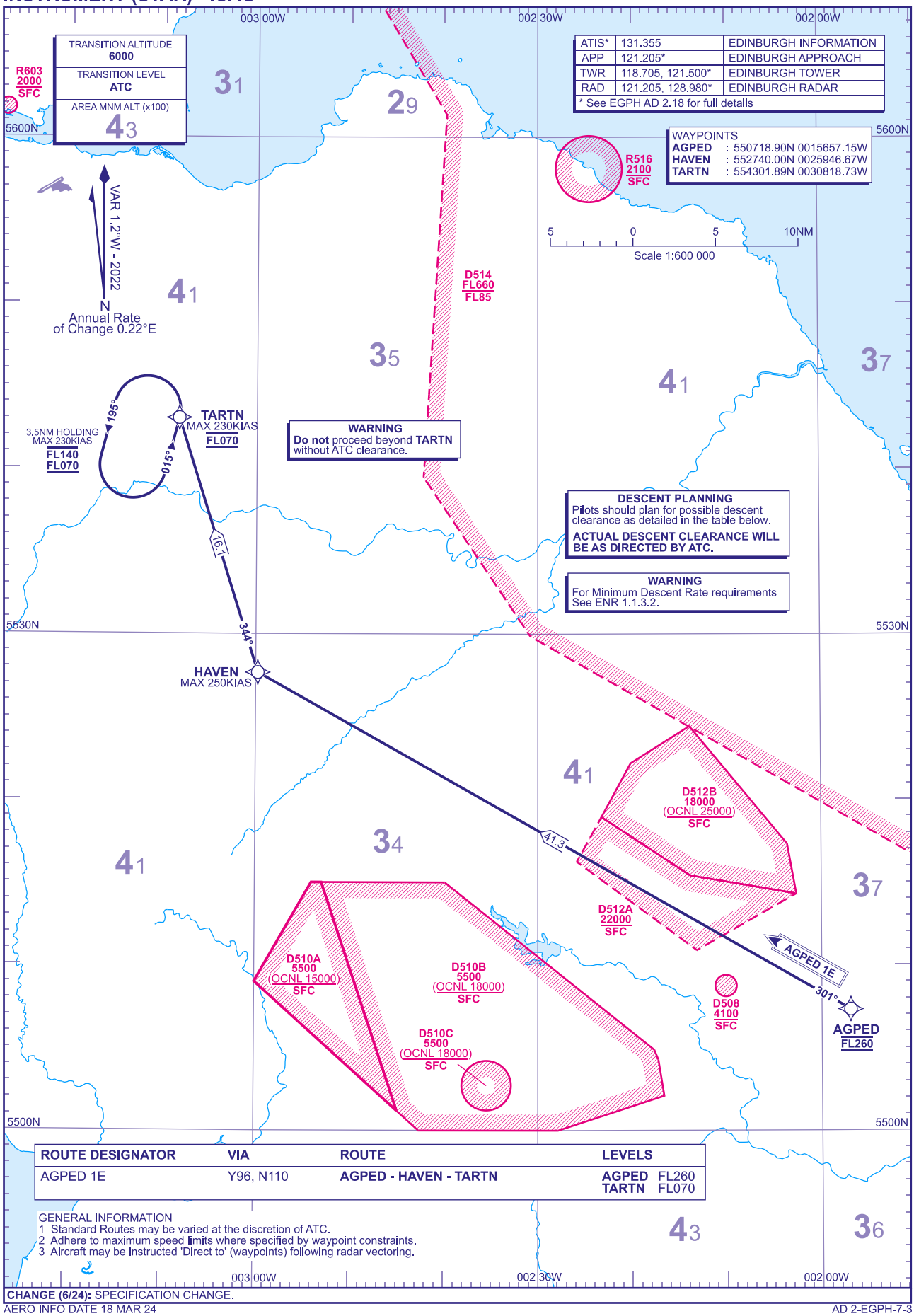
AERO INFO DATE 15 MAR 24

AD 2-EGPH-7-2

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EDINBURGH AGPED 1E



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
AGPED 1E	Y96, N110	AGPED - HAVEN - TARTN	AGPED FL260 TARTN FL070

CHANGE (6/24): SPECIFICATION CHANGE.

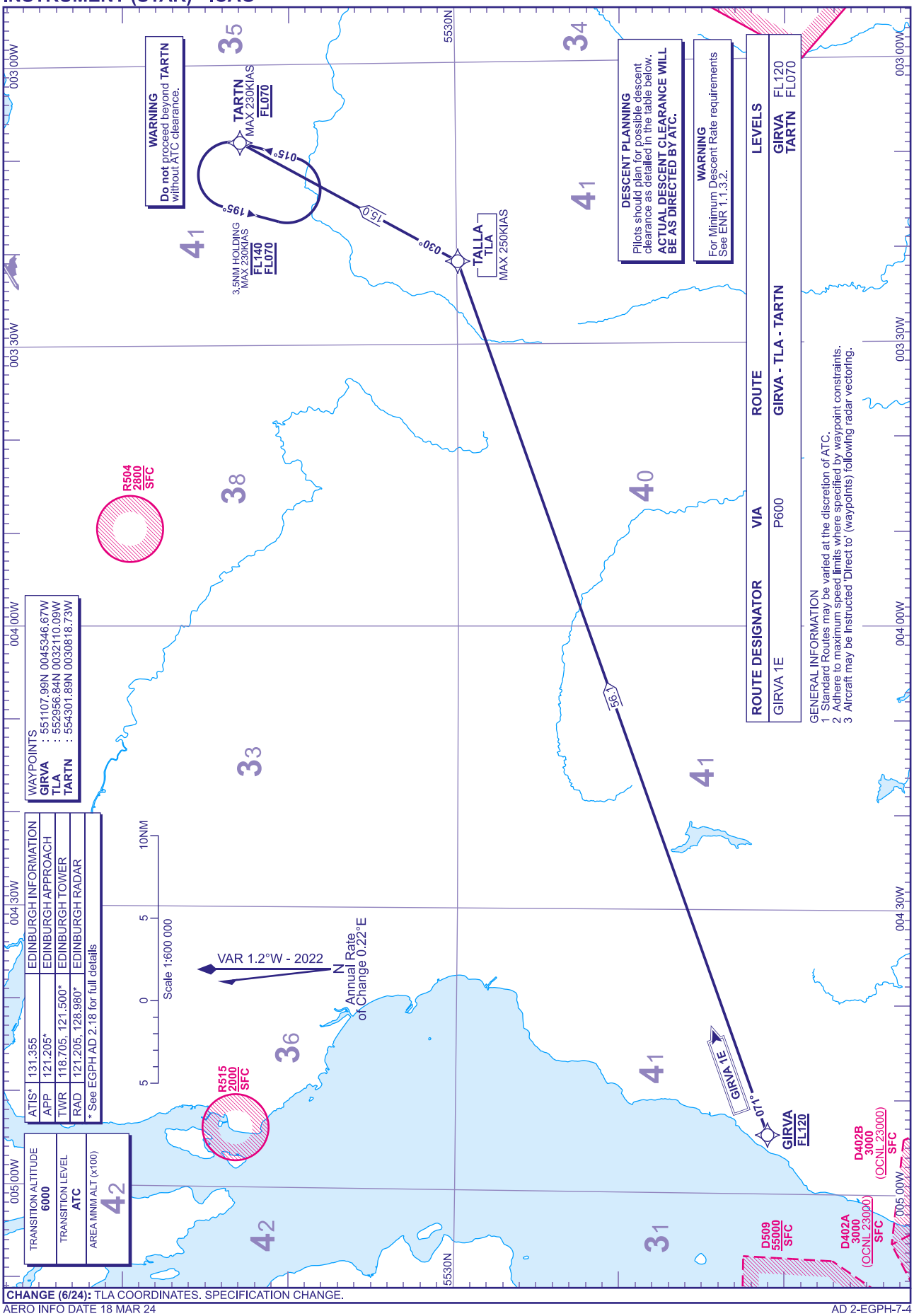
AERO INFO DATE 18 MAR 24

AD 2-EGPH-7-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EDINBURGH GIRVA 1E



CHANGE (6/24): TLA COORDINATES. SPECIFICATION CHANGE.

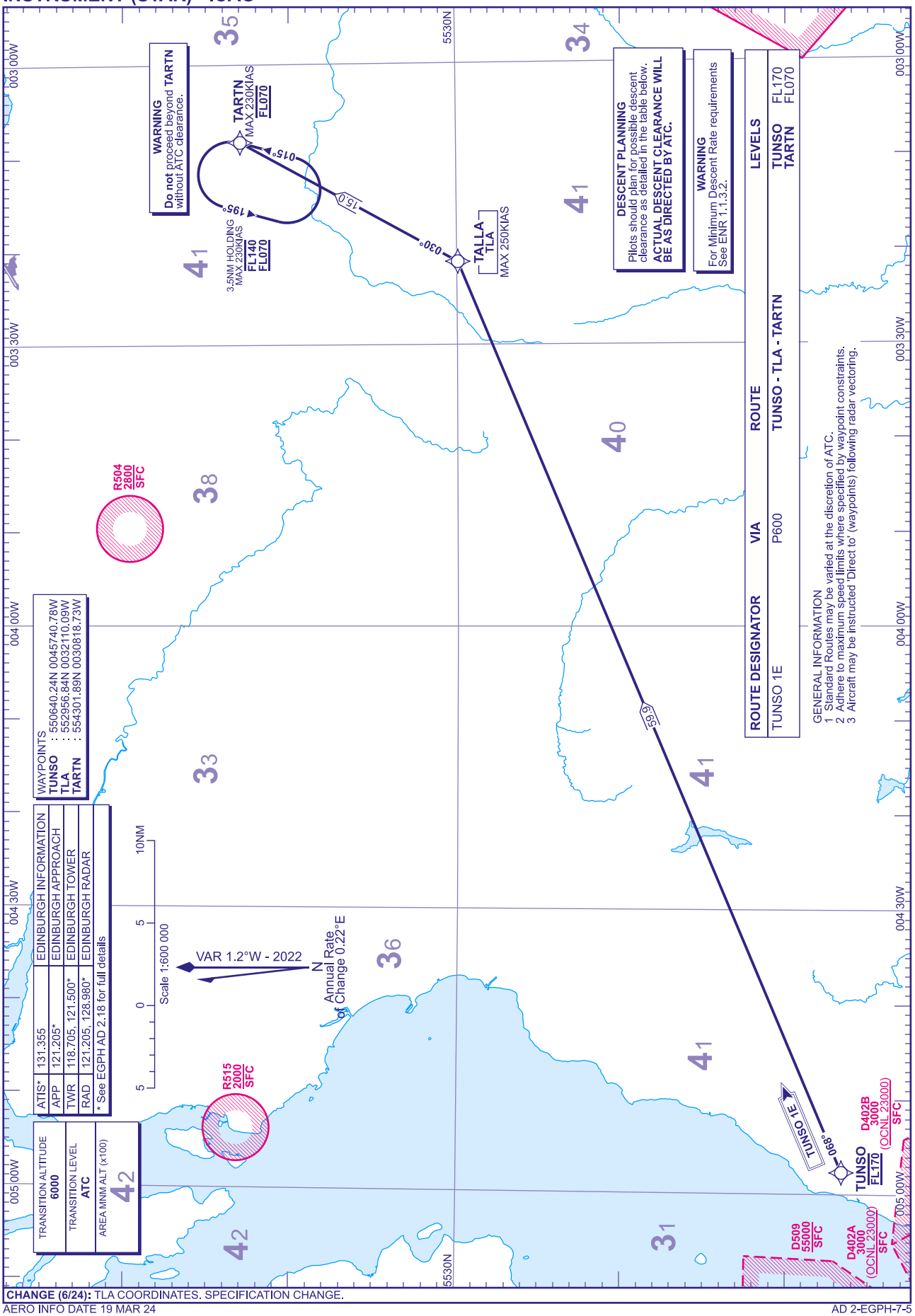
AERO INFO DATE 18 MAR 24

AD 2-EGPH-7-4

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

EDINBURGH TUNSO 1E



CHANGE (6/24): TLA COORDINATES. SPECIFICATION CHANGE.

AERO INFO DATE 19 MAR 24

AD 2-EGPH-7-5

Standard Instrument Arrival Coding Tables

EDINBURGH PTH 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PTH1G	001	IF	PTH	562632.63N 0032206.96W	N	-	-	-	-	-	-	RNAV5
PTH1G	002	TF	GRICE	561148.00N 0034107.79W	N	217° (215.8°)	-1.2	18.2	RIGHT	-	-250	RNAV5
PTH1G	003	TF	STIRA	560802.11N 0035000.98W	N	234° (232.9°)	-1.2	6.2	-	FL070	-230	RNAV5

EDINBURGH INPIP 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
INPIP1E	001	IF	INPIP	545235.54N 0025346.10W	N	-	-	-	-	FL260	-	RNAV5
INPIP1E	002	TF	INREV	550857.44N 0030539.46W	N	339° (337.4°)	-1.2	17.8	-	FL200	-	RNAV5
INPIP1E	003	TF	ESKDO	551756.00N 0031215.26W	N	339° (337.3°)	-1.2	9.8	RIGHT	-	-250	RNAV5
INPIP1E	004	TF	TARTN	554301.89N 0030818.73W	N	006° (005.1°)	-1.2	25.2	-	FL070	-230	RNAV5

EDINBURGH AGPED 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AGPED1E	001	IF	AGPED	550718.90N 0015657.15W	N	-	-	-	-	FL260	-	RNAV5
AGPED1E	002	TF	HAVEN	552740.00N 0025946.67W	N	301° (300.0°)	-1.2	41.3	RIGHT	-	-250	RNAV5
AGPED1E	003	TF	TARTN	554301.89N 0030818.73W	N	344° (342.6°)	-1.2	16.1	-	FL070	-230	RNAV5

EDINBURGH GIRVA 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GIRVA1E	001	IF	GIRVA	551107.99N 0045346.67W	N	-	-	-	-	FL120	-	RNAV5
GIRVA1E	002	TF	TLA	552956.84N 0032110.09W	N	071° (069.7°)	-1.2	56.1	LEFT	-	-250	RNAV5
GIRVA1E	003	TF	TARTN	554301.89N 0030818.73W	N	030° (029.0°)	-1.2	15.0	-	FL070	-230	RNAV5

EDINBURGH TUNSO 1E

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TUNSO1E	001	IF	TUNSO	550640.24N 0045740.78W	N	-	-	-	-	FL170	-	RNAV5
TUNSO1E	002	TF	TLA	552956.84N 0032110.09W	N	068° (066.4°)	-1.2	59.9	LEFT	-	-250	RNAV5
TUNSO1E	003	TF	TARTN	554301.89N 0030818.73W	N	030° (029.0°)	-1.2	15.0	-	FL070	-230	RNAV5

CHANGE (6/24): TLA COORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 19 MAR 24

RNAV Hold Coding Tables

EDINBURGH STIRA Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
STIRA	-	-	STIRA	560802.11N 0035000.98W	Y	233° (232.2°)	-1.2	4.0	RIGHT	-FL140 +FL070	-230	RNAV5

EDINBURGH TARTN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TARTN	-	-	TARTN	554301.89N 0030818.73W	Y	015° (013.5°)	-1.2	3.5	LEFT	-FL140 +FL070	-230	RNAV5

CHANGE (6/24): SPECIFICATION CHANGE.
AERO INFO DATE 19 MAR 24

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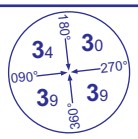
INSTRUMENT APPROACH CHART - ICAO

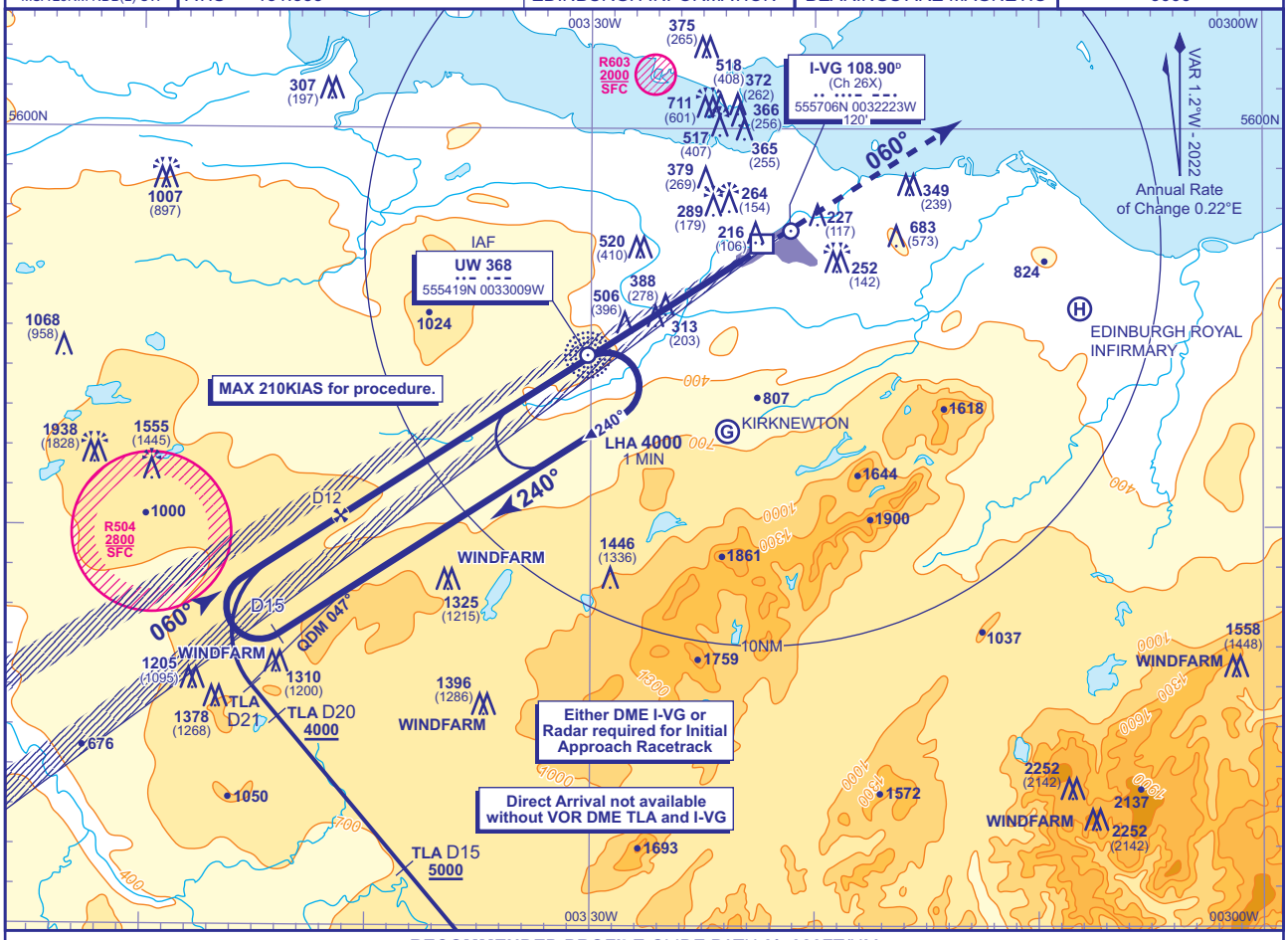
EDINBURGH ILS/DME/NDB(L) RWY 06
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) UW

APP	121.205	EDINBURGH APPROACH	AD ELEVATION	112
TWR	118.705	EDINBURGH TOWER	THR ELEVATION	110
	121.755	EDINBURGH GROUND	OBSTACLE ELEVATION	2252 AMSL (2142) (ABOVE THR)
RAD	121.205, 128.980	EDINBURGH RADAR		
ATIS	131.355	EDINBURGH INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

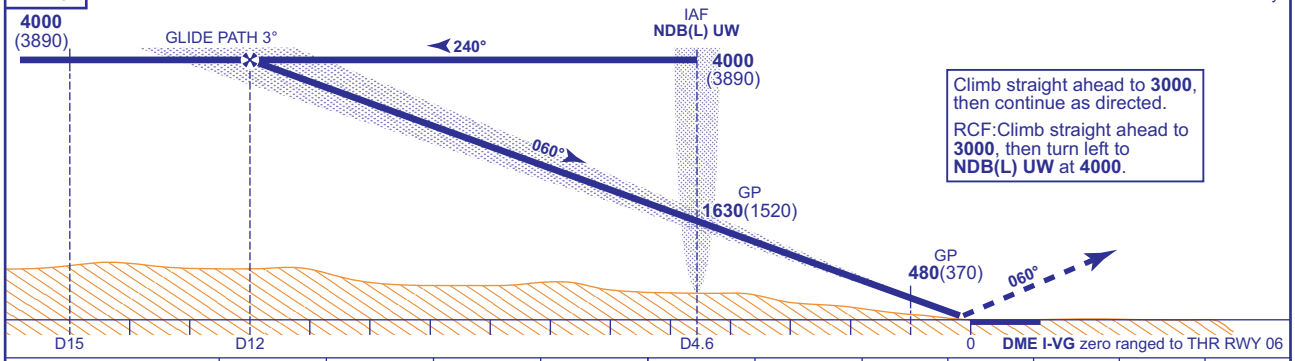


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-VG	10	9	8	7	6	5	4	3	2	1
ALT(HGT)	**3350**(3240)	**3030**(2920)	**2710**(2600)	**2390**(2280)	**2070**(1960)	**1760**(1650)	**1440**(1330)	**1120**(1010)	**800**(690)	**480**(370)

RDH 54

Arrival **not below 4000**. Shuttle in hold if necessary.



Climb straight ahead to **3000**, then continue as directed.

RCF:Climb straight ahead to **3000**, then turn left to **NDB(L) UW** at **4000**.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**250**(140)	**256**(146)	**266**(156)	**276**(166)
	CAT II	**161**(51)	**171**(61)	**184**(74)	**197**(87)
VM(C)OCA (OCH AAL)	Total Area	**780**(668)	**980**(868)	**1470**(1358)	**2020**(1908)
	North of RWY 06/24	**780**(668)	**830**(718)	**1150**(1038)	**1210**(1098)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

DIRECT ARRIVAL VIA VOR DME TLA VOR DME (IAF) as cleared, fly outbound on VOR TLA R321 descending **not below 6000**. From TLA VOR R321 DME 11 continue descent to cross TLA DME 15 **not below 5000** and TLA DME 20 **not below 4000**. At TLA DME 21 (NDB(L) UW QDM 047°) turn right to intercept the LOC and continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME Advise ATC. Radar Ranges will be provided at 15NM outbound and at 12NM and 4NM inbound.

NOTE See AD2.22 / 1.d and 4.a for speed restrictions.

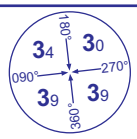
CHANGE (8/25): MINIMA. AD ELEVATION.

AERO INFO DATE 12 MAY 25

AD 2-EGPH-8-1

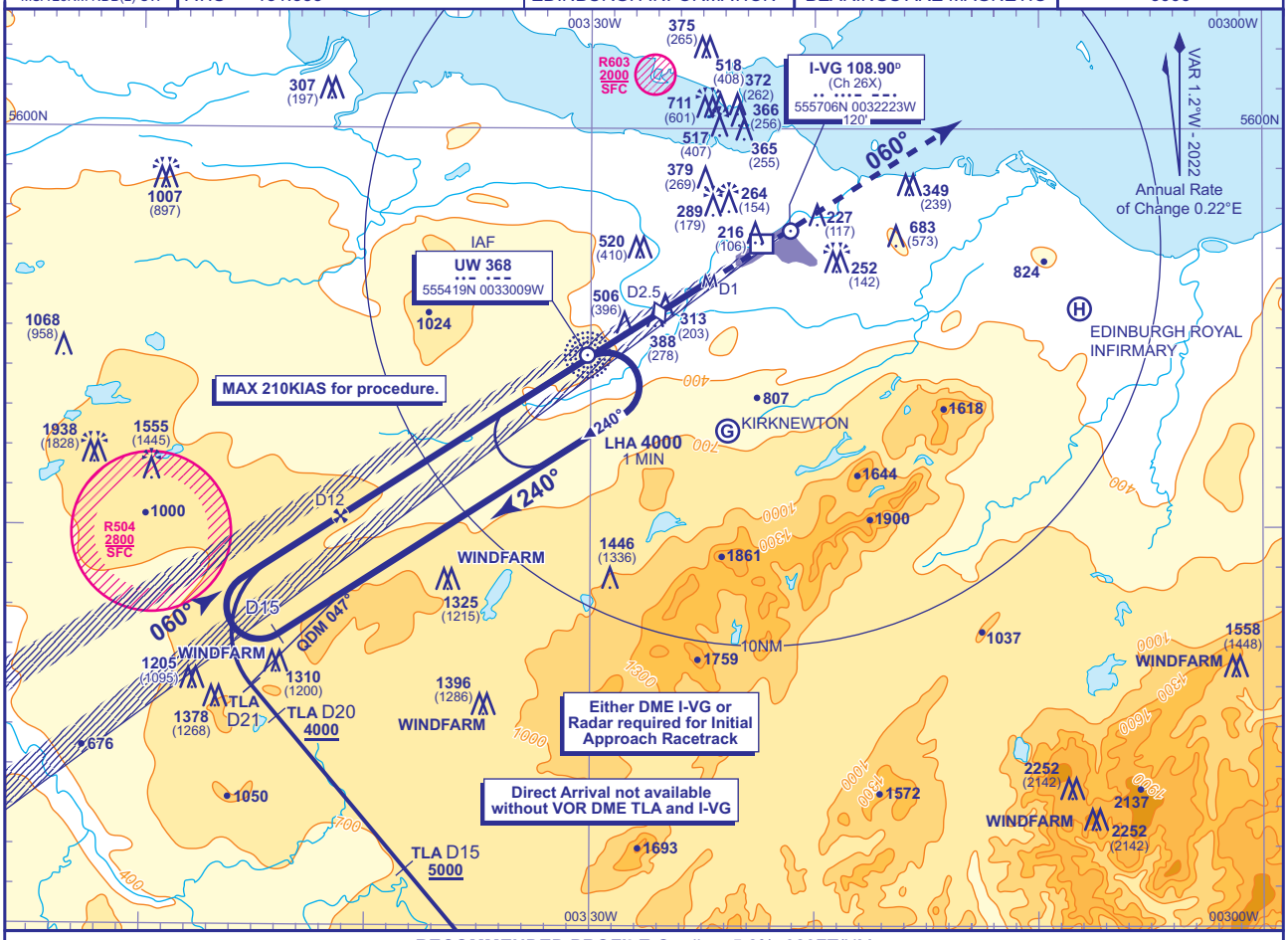
INSTRUMENT APPROACH CHART - ICAO

EDINBURGH
LOC/DME/NDB(L)
RWY 06
(ACFT CAT A,B,C,D)



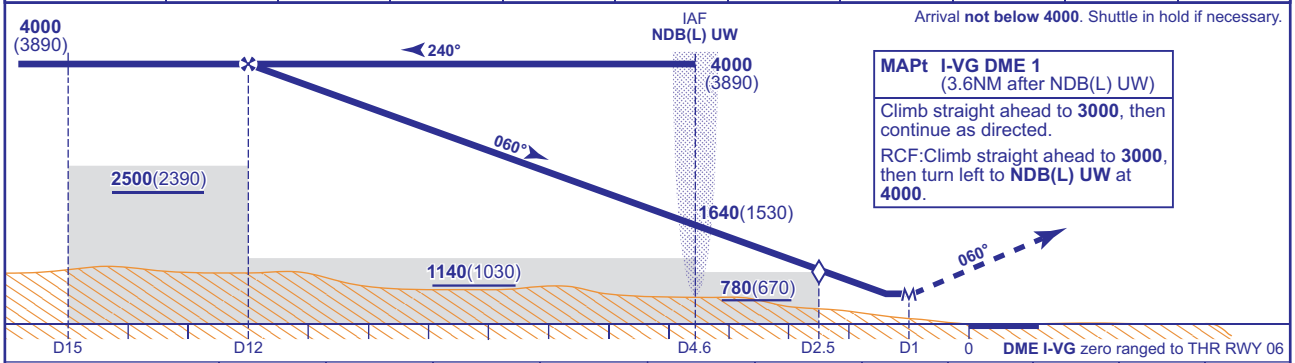
MSA 25NM NDB(L) UW

APP	121.205	EDINBURGH APPROACH	AD ELEVATION	**112**	TRANSITION ALTITUDE **6000**
TWR	118.705	EDINBURGH TOWER	THR ELEVATION	**110**	
	121.755	EDINBURGH GROUND	OBSTACLE ELEVATION **2252 AMSL** (2142) (ABOVE THR)		
RAD	121.205, 128.980	EDINBURGH RADAR			
ATIS	131.355	EDINBURGH INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-VG	10	9	8	7	6	5	4	3	2.5 **(SDF)**	2
ALT(HGT)	**3350**(3240)	**3030**(2920)	**2710**(2600)	**2390**(2280)	**2070**(1960)	**1760**(1650)	**1440**(1330)	**1120**(1010)	**960**(850)	**800**(690)



Arrival **not below 4000**. Shuttle in hold if necessary.

MAPt I-VG DME 1
(3.6NM after NDB(L) UW)

Climb straight ahead to **3000**, then continue as directed.

RCF:Climb straight ahead to **3000**, then turn left to **NDB(L) UW** at **4000**.

Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**590**(480)	**590**(480)	**590**(480)	**590**(480)
	NO DME	**780**(670)	**780**(670)	**780**(670)	**780**(670)
VM(C)OCA (OCH AAL)	Total Area	**780**(668)	**980**(868)	**1470**(1358)	**2020**(1908)
	North of RWY 06/24	**780**(668)	**830**(718)	**1150**(1038)	**1210**(1098)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420
NDB(L) UW to MAPt	MIN:SEC	1:21	1:32	1:48	2:10	2:42

DIRECT ARRIVAL VIA VOR DME TLA VOR DME (IAF) as cleared, fly outbound on VOR TLA R321 descending **not below 6000**. From TLA VOR R321 DME 11 continue descent to cross TLA DME 15 **not below 5000** and TLA DME 20 **not below 4000**. At TLA DME 21 (NDB(L) UW QDM 047°) turn right to intercept the LOC and continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME Radar ranges will be provided at the equivalent of D15 outbound on the racetrack and D12 inbound. Turn right to intercept the LOC. When established, descend at equivalent of D12 inbound to **not below 1140**(1030) until overhead NDB(L) UW, then continue descent to MDH

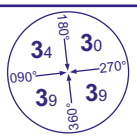
NOTE See AD2.22 / 1.d and 4.a for speed restrictions.

CHANGE (8/25): MINIMA. MOCA. SDF. AD ELEVATION.

AERO INFO DATE 12 MAY 25 AD 2-EGPH-8-2

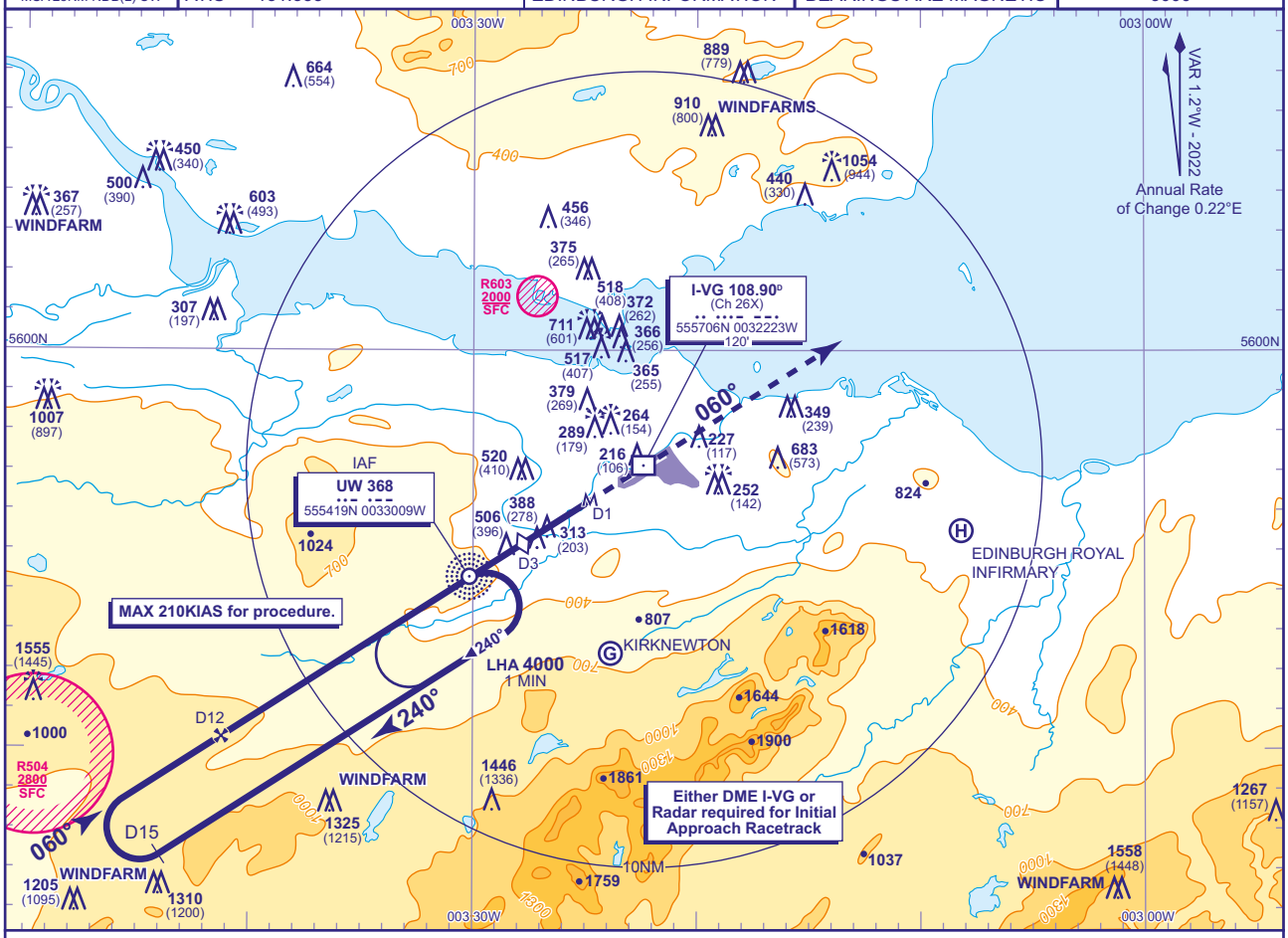
INSTRUMENT APPROACH CHART - ICAO

EDINBURGH NDB/DME RWY 06
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) UW

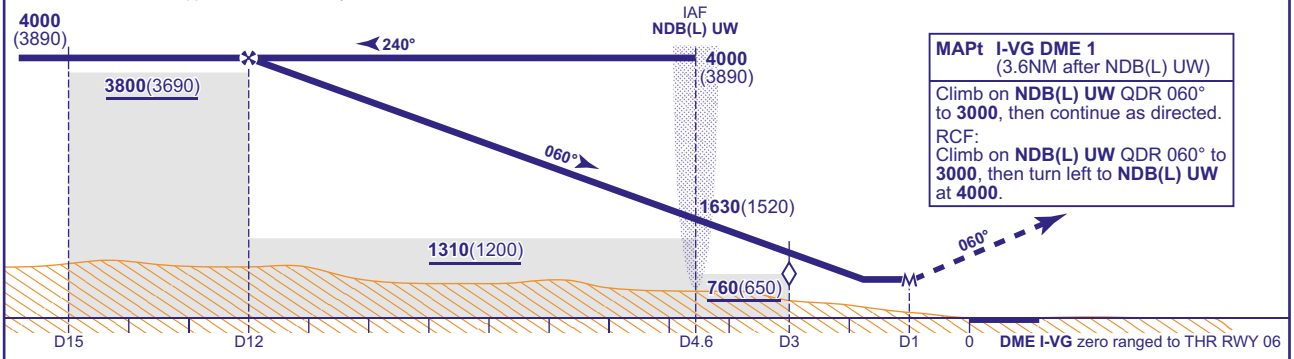
APP	121.205	EDINBURGH APPROACH	AD ELEVATION	112	TRANSITION ALTITUDE 6000
TWR	118.705	EDINBURGH TOWER	THR ELEVATION	110	
	121.755	EDINBURGH GROUND	OBSTACLE ELEVATION 1558 AMSL (1448) (ABOVE THR)		
RAD	121.205, 128.980	EDINBURGH RADAR			
ATIS	131.355	EDINBURGH INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-VG	10	9	8	7	6	5	4	3 (SDF)	2
ALT(HGT)	**3360**(3250)	**3040**(2930)	**2720**(2610)	**2400**(2290)	**2080**(1970)	**1760**(1650)	**1440**(1330)	**1120**(1010)	**800**(690)

Initial and intermediate approach as directed by radar.



MAPt I-VG DME 1 (3.6NM after NDB(L) UW)

Climb on **NDB(L) UW** QDR 060° to **3000**, then continue as directed.

RCF:
Climb on **NDB(L) UW** QDR 060° to **3000**, then turn left to **NDB(L) UW** at **4000**.

Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**690**(580)	**690**(580)	**690**(580)	**690**(580)
	NO DME	**760**(650)	**760**(650)	**760**(650)	**760**(650)
VM(C)OCA (OCH AAL)	Total Area	**780**(668)	**980**(868)	**1470**(1358)	**2020**(1908)
	North of RWY 06/24	**780**(668)	**830**(718)	**1150**(1038)	**1210**(1098)

Rate of descent	G/S KT	160	140	120	100	80
NDB(L) UW to MAPt	FT/MIN	850	750	640	530	430
	MIN:SEC	1:21	1:32	1:48	2:10	2:42

AIRCRAFT UNABLE TO RECEIVE DME I-VG
As for main and alternative procedures with DME except radar ranges will be provided equivalent to D15 outbound on the racetrack procedure and D12 inbound. When established on the extended FAT, descend from equivalent to D12 inbound to cross NDB(L) UW **not below 1310**(1200), then descend to MDH.

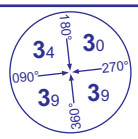
CHANGE (8/25): MINIMA. MOCA. AD ELEVATION.

AERO INFO DATE 12 MAY 25

AD 2-EGPH-8-3

INSTRUMENT APPROACH CHART - ICAO

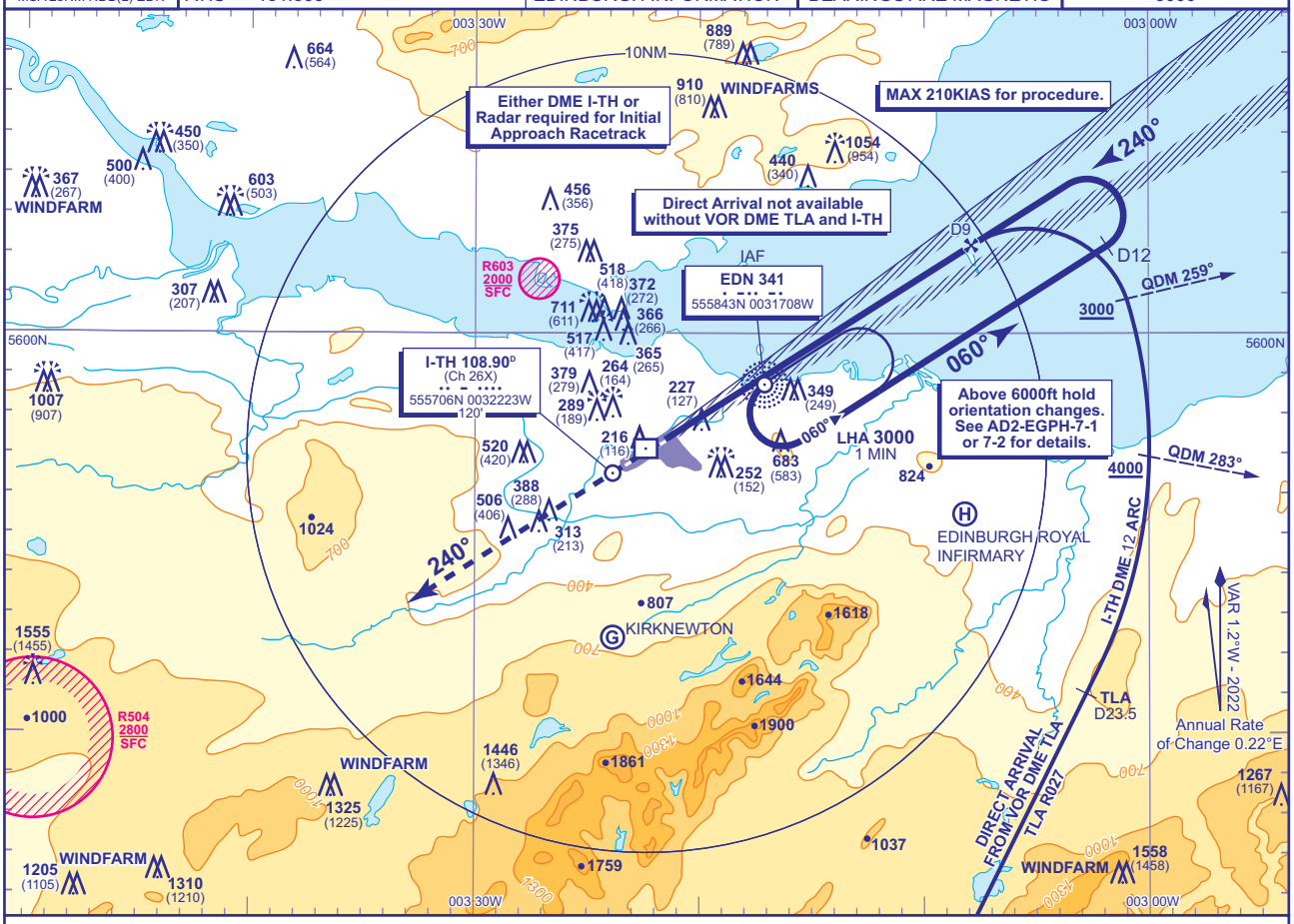
EDINBURGH ILS/DME/NDB(L) RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EDN

APP	121.205	EDINBURGH APPROACH	AD ELEVATION	112	
TWR	118.705	EDINBURGH TOWER	THR ELEVATION	100	
	121.755	EDINBURGH GROUND	OBSTACLE ELEVATION		
RAD	121.205, 128.980	EDINBURGH RADAR	1558 AMSL (1458) (ABOVE THR)		
ATIS	131.355	EDINBURGH INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



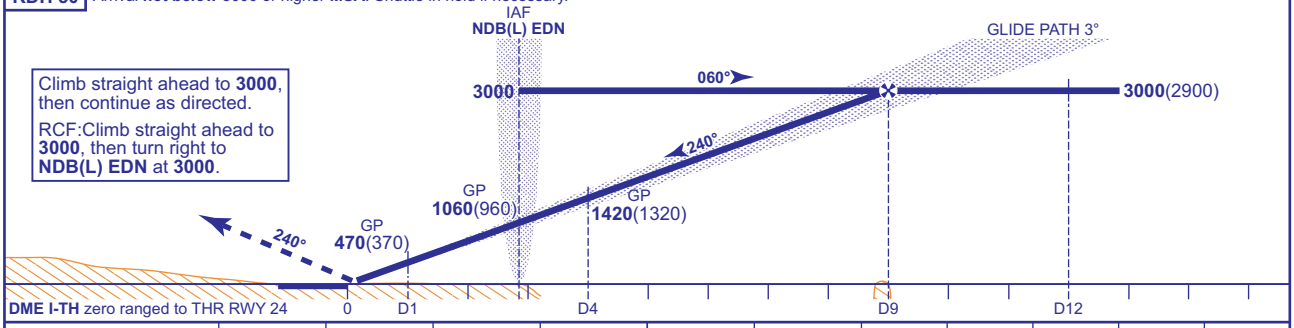
RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-TH	8	7	6	5	4	3	2	1
ALT(HGT)	**2700**(2600)	**2380**(2280)	**2060**(1960)	**1740**(1640)	**1420**(1320)	**1110**(1010)	**790**(690)	**470**(370)

RDH 50 Arrival **not below 3000** or higher **MSA**. Shuttle in hold if necessary.

Climb straight ahead to **3000**, then continue as directed.

RCF:Climb straight ahead to **3000**, then turn right to **NDB(L) EDN** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**245**(145)	**253**(153)	**261**(161)	**272**(172)
	CAT II	**153**(53)	**161**(61)	**173**(73)	**185**(85)
VM(C)OCA (OCH AAL)	Total Area	**780**(668)	**980**(868)	**1470**(1358)	**2020**(1908)
	North of RWY 06/24	**780**(668)	**830**(718)	**1150**(1038)	**1210**(1098)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

DIRECT ARRIVAL VIA VOR DME TLA From overhead VOR DME TLA (IAF) as cleared, fly outbound on VOR TLA R027 descending **not below 6000**. From TLA VOR R027 DME 13 continue descent to cross EDN NDB(L) QDM 283° **not below 4000**. (See plan for continuation). Nominal track distance from VOR DME TLA to lead radial NDB(L) EDN QDM 259° is 32NM. TLA VOR R027 becomes tangential to nominal I-TH DME 12 arc at TLA DME 23.5.

AIRCRAFT UNABLE TO RECEIVE DME Advise ATC. Radar Ranges will be provided at 12NM outbound and at 9NM inbound.

NOTE 1 Direct arrival in the event of loss of I-TH DME before establishing on LOC climb to **3000** and request ATC clearance to revert to main procedure overhead NDB(L) EDN.

2 See AD2.22 / 1.d and 4.a for speed restrictions.

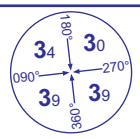
CHANGE (8/25): VM(C)OCA (OCH AAL) MINIMA. AD ELEVATION.

AERO INFO DATE 12 MAY 25 AD 2-EGPH-8-4

INSTRUMENT APPROACH CHART - ICAO

EDINBURGH LOC/DME/NDB(L) RWY 24

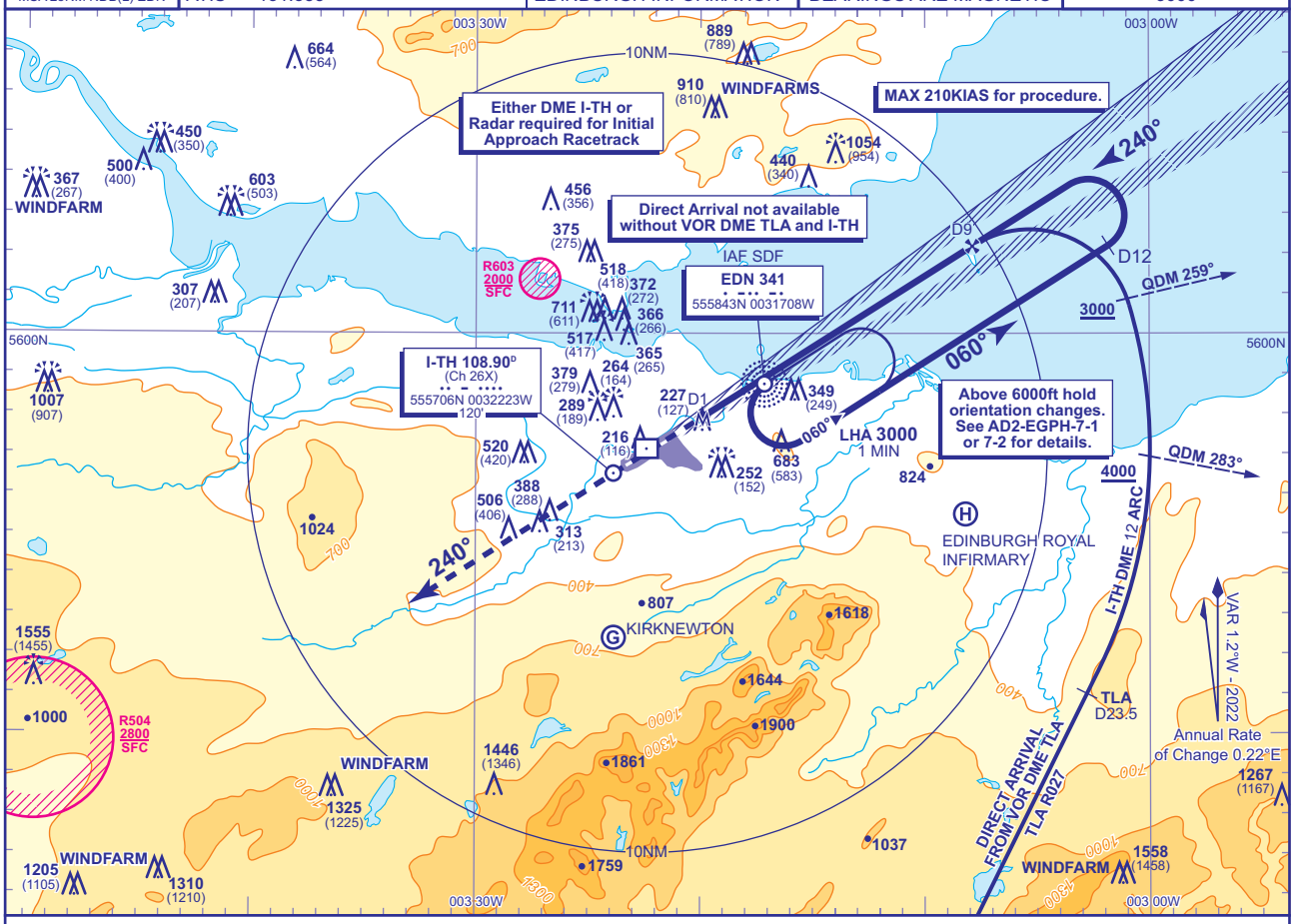
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EDN

APP	121.205	EDINBURGH APPROACH	AD ELEVATION	112	
TWR	118.705	EDINBURGH TOWER	THR ELEVATION	100	
	121.755	EDINBURGH GROUND	OBSTACLE ELEVATION	1558 AMSL (1458) (ABOVE THR)	
RAD	121.205, 128.980	EDINBURGH RADAR			
ATIS	131.355	EDINBURGH INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

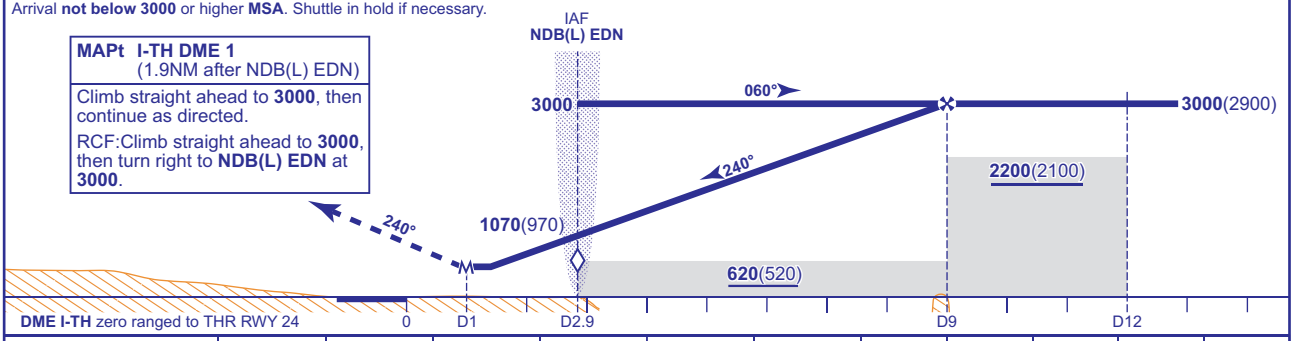
DME I-TH	8	7	6	5	4	3	2.9 **(SDF)**	2
ALT(HGT)	**2700**(2600)	**2380**(2280)	**2060**(1960)	**1740**(1640)	**1420**(1320)	**1110**(1010)	**1070**(970)	**790**(690)

Arrival **not below 3000** or higher **MSA**. Shuttle in hold if necessary.

MAPt I-TH DME 1
(1.9NM after NDB(L) EDN)

Climb straight ahead to **3000**, then continue as directed.

RCF:Climb straight ahead to **3000**, then turn right to **NDB(L) EDN** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**550**(450)	**550**(450)	**550**(450)	**550**(450)
	NO DME	**550**(450)	**550**(450)	**550**(450)	**550**(450)
VM(C)OCA (OCH AAL)	Total Area	**780**(668)	**980**(868)	**1470**(1358)	**2020**(1908)
	North of RWY 06/24	**780**(668)	**830**(718)	**1150**(1038)	**1210**(1098)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420
NDB(L) EDN to MAPt	MIN:SEC	0:43	0:49	0:57	1:08	1:25

DIRECT ARRIVAL VIA VOR DME TLA From overhead VOR DME TLA (IAF) as cleared, fly outbound on VOR TLA R027 descending **not below 6000**. From TLA VOR R027 DME 13 continue descent to cross EDN NDB(L) QDM 283° **not below 4000**. (See plan for continuation).

AIRCRAFT UNABLE TO RECEIVE DME Advise ATC. Radar Ranges will be provided equivalent to D12 outbound and at D9 inbound. Turn left to intercept the LOC. When established, descend at equivalent of D9 inbound to **not below 620**(520) until overhead NDB(L) EDN, then continue descent to MDH.

NOTE 1 Direct arrival in the event of loss of I-TH DME before establishing on LOC climb to **3000** and request ATC clearance to revert to main procedure overhead NDB(L) EDN.

2 See AD2.22 / 1.d and 4.a for speed restrictions.

CHANGE (8/25): MINIMA. AD ELEVATION.

AERO INFO DATE 12 MAY 25

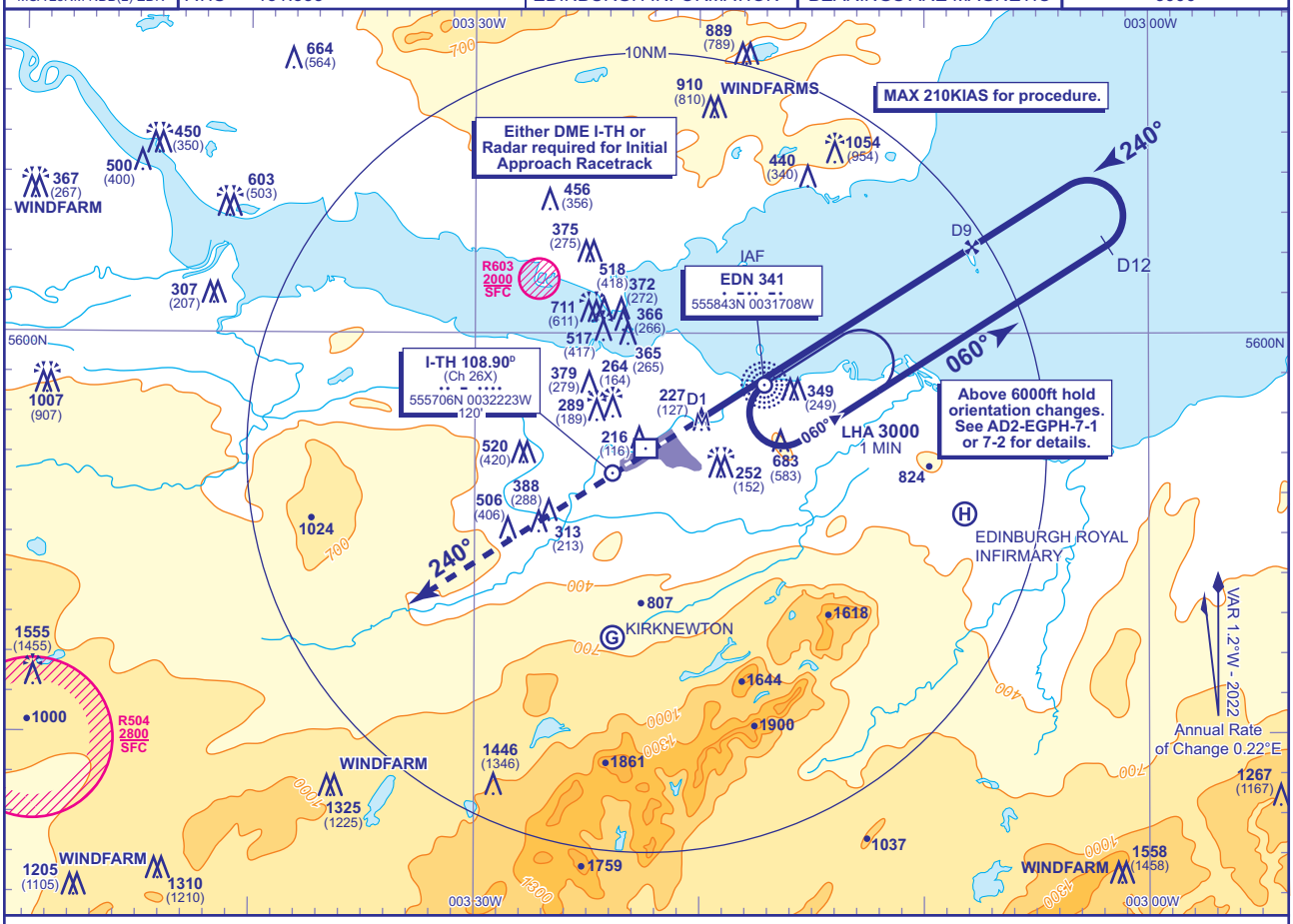
AD 2-EGPH-8-5

INSTRUMENT APPROACH CHART - ICAO

EDINBURGH NDB(L)/DME RWY 24
(ACFT CAT A,B,C,D)

MSA 25NM NDB(L) EDN	APP	121.205	EDINBURGH APPROACH	AD ELEVATION	112
	TWR	118.705	EDINBURGH TOWER	THR ELEVATION	100
		121.755	EDINBURGH GROUND	OBSTACLE ELEVATION 1558 AMSL (1458) (ABOVE THR)	
	RAD	121.205, 128.980	EDINBURGH RADAR		
	ATIS	131.355	EDINBURGH INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

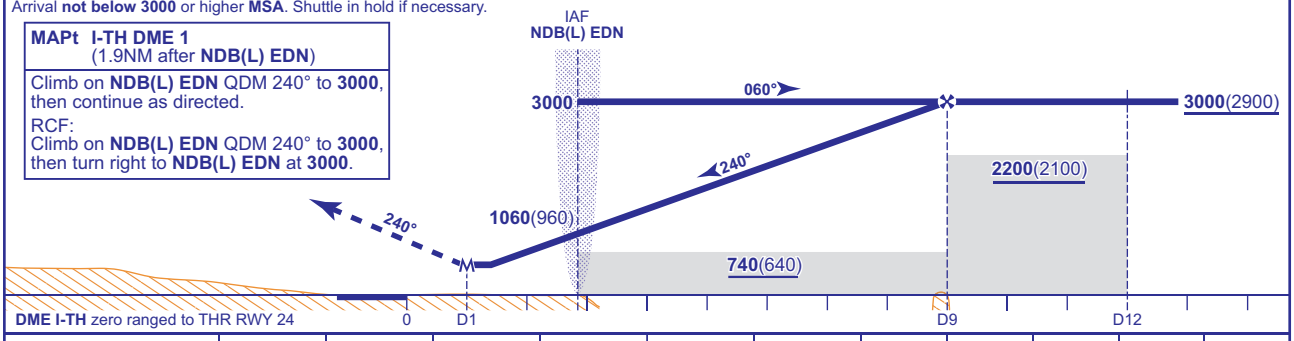
DME I-TH	8	7	6	5	4	3	2
ALT(HGT)	**2680**(2580)	**2370**(2270)	**2050**(1950)	**1730**(1630)	**1420**(1320)	**1100**(1000)	**780**(680)

Arrival **not below 3000** or higher **MSA**. Shuttle in hold if necessary.

MAPt I-TH DME 1
(1.9NM after **NDB(L) EDN**)

Climb on **NDB(L) EDN** QDM 240° to **3000**, then continue as directed.

RCF:
Climb on **NDB(L) EDN** QDM 240° to **3000**, then turn right to **NDB(L) EDN** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**600**(500)	**600**(500)	**600**(500)	**600**(500)
	NO DME	**650**(550)	**650**(550)	**650**(550)	**650**(550)
VM(C)OCA (OCH AAL)	Total Area	**780**(668)	**980**(868)	**1470**(1358)	**2020**(1908)
	North of RWY 06/24	**780**(668)	**830**(718)	**1150**(1038)	**1210**(1098)

Rate of descent NDB(L) EDN to MAPt	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420
	MIN:SEC	0:43	0:49	0:57	1:08	1:25

AIRCRAFT UNABLE TO RECEIVE DME I-TH
Advise ATC. Radar ranges will be provided equivalent to D12 outbound and at D9 inbound. Turn left to intercept the extended FAT. When established, descend at equivalent of D9 inbound to **not below 740**(640) until overhead NDB(L) EDN, then continue descent to MDH.

NOTE FAT does not intercept the extended RWY CL and passes 140m south of RWY THR.

CHANGE (8/25): VM(C)OCA (OCH AAL) MINIMA. AD ELEVATION.

AERO INFO DATE 12 MAY 25 AD 2-EGPH-8-6

EGTR — ELSTREE

EGTR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTR — ELSTREE

EGTR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513921N Long: 0001933W Mid point of Runway 08/26
2	Direction and distance from city	2.6 NM E of Watford.
3	Elevation / Reference temperature / Mean Low Temperature	332 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	1.26°E (2027) / 0.17°E
6	AD Administration Address Telephone Telefax E-mail address	ALDENHAM AVIATION LTD. Elstree Aerodrome, Borehamwood, Hertfordshire, WD6 3AR. 020-8953 7480 020-8207 3691 tower@londonelstree.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGTR AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-2000 (0800-1900); or SS, whichever is earlier and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	AFIS 0900-2000 (0800-1900) or SS, whichever is earlier.
8	Fuelling	By arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Mandatory PPR and pilot brief available at http:// www.londonelstreeaerodrome.com.

EGTR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGTR AD 2.5 PASSENGER FACILITIES

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EGTR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special: Only available by arrangement after 1700 (1600) or SS, whichever is earlier.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGTR AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGTR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGTR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Illuminated windsleeve: 513918.32N 0001927.03W Windsleeve: 513925.68N 0001920.78W

EGTR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTR1161)	TREE	513841.39N 0001746.26W	560 FT		No	
(EGTR2135)	BUILDING	513828.63N 0002000.25W	528 FT		No	
(EGTR1150)	TREE	513814.42N 0001950.50W	551 FT		No	
(EGTR2134)	MAST	513808.19N 0001955.55W	705 FT		No	

EGTR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGTR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
08	079.66°	651 x 20 M	RWY surface: Asphalt	513919.09N 0001949.71W 151.4 FT	THR 329.8 FT	
26	259.67°	651 x 20 M	RWY surface: Asphalt	513922.86N 0001916.40W 151.4 FT	THR 301.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		- x 62 M	90 x 40 M -			RWY 08 174 M paved area to the west of threshold 08 is not part of the licensed aerodrome.
		- x 62 M	90 x 40 M -			RWY 26 128 M paved area to the east of threshold 26 is not to be used for take off and landing.

EGTR AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	651 M	651 M	651 M	651 M	
26	651 M	651 M	651 M	651 M	

EGTR AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08						Light intensity low			
26		Light intensity low Wingbar	OTHER Left/4.5° 4 FT LITAS			Light intensity low			

EGTR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: Flashing Green 'EL'
2	LDI location and lighting Anemometer location and lighting	Anemometer: 513918.60N 0001925.87W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGTR AD 2.16 HELICOPTER LANDING AREA

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EGTR AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ELSTREE ATZ A circle, 2 NM radius, centred at 513921N 0001933W on longest notified runway (08/ 26)	Upper limit: 2000 FT AGL Lower limit: SFC	G	ELSTREE INFORMATION English	6000 FT		

EGTR AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	ELSTREE INFORMATION	122.405 DOC 10 NM/3,000 FT.			0900-2000 (0800-1900) or SS, whichever is earlier.	ATZ hours coincident with AFIS hours.
OTHER	ELSTREE RADIO	122.405 A/G frequency.			0900-2000 (0800-1900) or SS, whichever is earlier.	ATZ hours coincident with A/G hours.

EGTR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGTR AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Terms and conditions of use are available on request from the aerodrome operator.
b) Aerodrome not available to aircraft unable to communicate by radio.
c) Gliders, para dropping and banner towing are not permitted.
d) High visibility clothing is mandatory airside.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Distance between taxiway centre-lines and the nearest obstruction is generally only 10.5 M. Pilots are to taxi with extreme caution.
b) HT cables, 95 FT AAL running east-west approximately 0.3 NM north of Runway 08/26.
c) HT cables, running north - south approximately 0.21 NM from the threshold of Runway 08.
d) Pilots are to exercise caution when operating on the helipad due to the proximity of other helicopters and aerodrome furniture. Helicopters may use the helipad provided they have procedures in place to allow safe operations. Public transport helicopter flights using the helipad must be compliant with company operating manuals.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Only Runway 26 is licensed for night use.

7 TRAINING

Not applicable

EGTR AD 2.21 NOISE ABATEMENT PROCEDURES

a) Circuits variable in accordance with noise limitation schedule.

EGTR AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Standard overhead join. Variable circuits. Fixed wing circuit height 1000 FT QFE.

2 DEPARTURES

a) Runway 26 - After take-off maintain runway heading until crossing the M1 motorway, at the motorway junction turn right to re-cross the M1. Follow the M1 until 1 NM before the junction with the M25 then continue en-route.
b) Runway 08 – After take-off maintain runway heading for 1 NM before turning left to avoid all built up areas.

3 HELICOPTER OPERATIONS

a) Helicopters are to arrive and depart from the ATZ via specific entry/exit point. Pilots should check with aerodrome operator prior to flight.
b) Circuit height 750 FT AGL.

4 HELICOPTER ROUTE ENTRY/EXIT POINTS

a) Alpha: 514024N 0002216W;
Bravo: 514031N 0001657W;
Charlie: 513830N 0001930W.
b) Helicopter arrivals to position to the northern grass at 500 FT QFE.

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGTR AD 2.23 ADDITIONAL INFORMATION

1 Three footpaths traverse the aerodrome:

a) A permissive footpath running along the northern aerodrome boundary;
b) A public right of way running north/south to the west of Runway 08 threshold;
c) A public right of way across Runway 26/08 west of the helipad (infrequently used).

EGTR AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTR-2-1

EGTR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

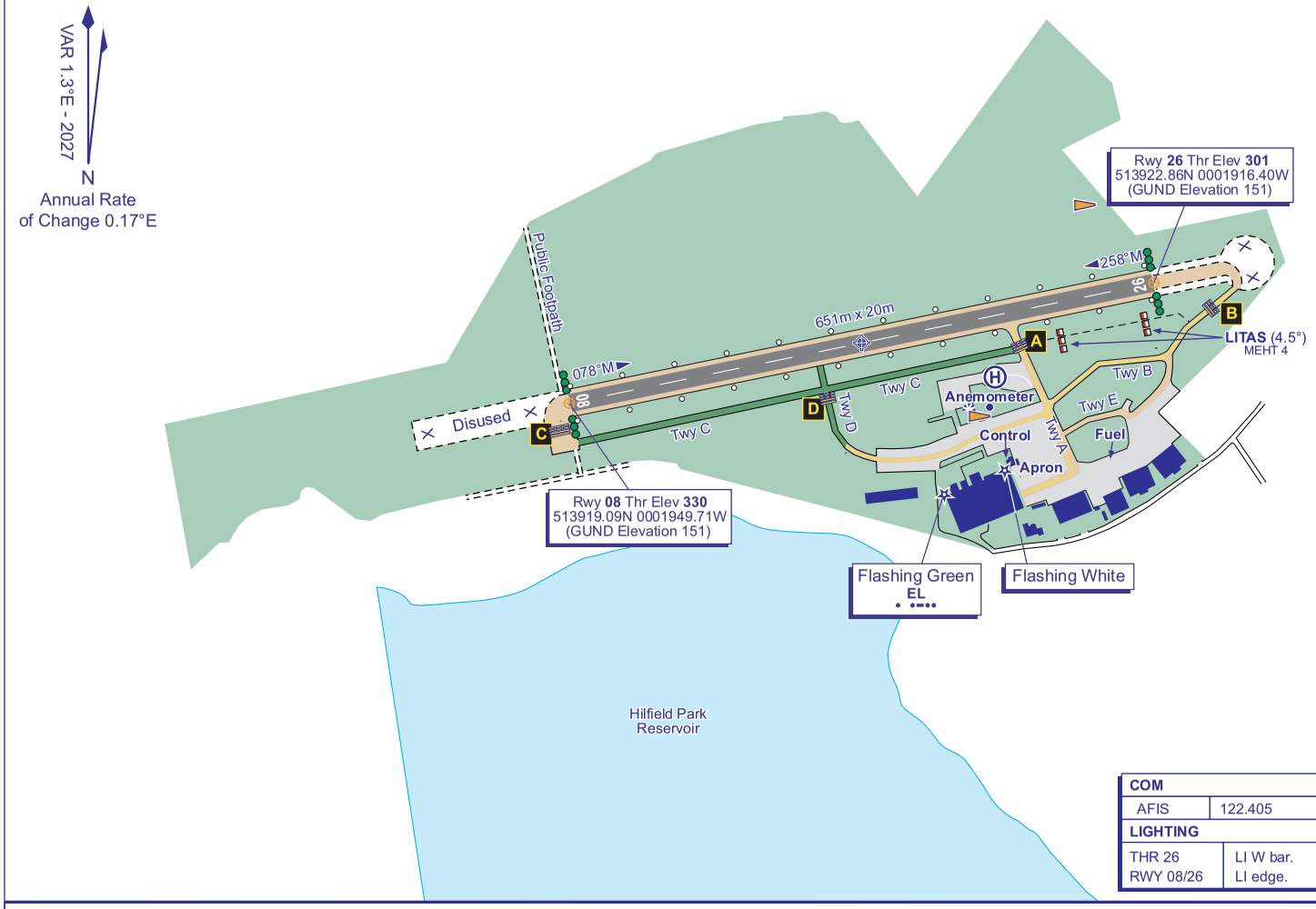
ARP 513921N 0001933W

AD ELEV 332FT

ELSTREE
EGTR

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**398** (66)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**PCN**	**ELEVATION**
RWY 08/26	Asphalt	-	-
Main Apron	Asphalt	-	-
Main Taxiway	Asphalt	-	-



COM		
AFIS	122.405	ELSTREE INFORMATION
LIGHTING		
THR 26 RWY 08/26	LI W bar. LI edge.	

CHANGE (10/25): EDITORIAL. MAG INFO.

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EGAB — ENNISKILLEN/ST ANGELO

EGAB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGAB — ENNISKILLEN/ST ANGELO

EGAB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 542355N Long: 0073907W Mid-point of Runway 14/32.
2	Direction and distance from city	3 NM N of Enniskillen.
3	Elevation / Reference temperature / Mean Low Temperature	159 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	1.70°W (2027) / 0.21°E
6	AD Administration Address Telephone E-mail address	ENNISKILLEN AIRPORT LTD Enniskillen Airport, 62 Killadeas Road, Trory, Enniskillen, Co-Fermanagh, BT94 2FH. 028-6632 9000 info@enniskillen-airport.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGAB AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1600 (0800-1600) and by arrangement.
2	Customs and immigration	On request.
3	Health and sanitation	
4	AIS Briefing Office	As AD Hours
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As AD Hours
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	As AD hours.
10	Security	As AD Hours
11	De-icing	
12	Remarks	PPR by telephone.

EGAB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	AVGAS overground tank/bowser. AVTUR overground tank.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Yes
6	Repair facilities for visiting aircraft	Yes
7	Remarks	

EGAB AD 2.5 PASSENGER FACILITIES

1	Hotels	In Enniskillen.
2	Restaurants	Cafe on aerodrome.
3	Transportation	Taxi and car hire available.
4	Medical facilities	Hospital 1 mile south of aerodrome.
5	Bank and Post Office	In Enniskillen.
6	Tourist Office	In Enniskillen.
7	Remarks	

EGAB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 on request. RFF Category 3 under remission.
2	Rescue equipment	RFF Category 2 appliance.
3	Capability for removal of disabled aircraft	Yes
4	Remarks	

EGAB AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Latest information from: ATC 028-6632 9000.

EGAB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt PCN 9/R/C/X/T
2	Taxiway width, surface and strength	Taxiway MAIN TWY: 8 M Surface: Asphalt PCN 9/R/C/X/T
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGAB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 14/32: Centre-line
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Two windsleeves: 542339.44N 0073849.73W - 542411.00N 0073925.00W.

EGAB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAB6448) 32/APPROACH	TREE	542333.66N 0073832.66W	233 FT		No	
(EGAB2515) 32/APPROACH	CHURCH TOWER	542329.90N 0073838.30W	267 FT		Yes White. Up lit from below.	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAB2700)	GORSE	542222.52N 0073418.58W	645 FT		No	

EGAB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGAB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
14	139.67°	1218 x 30 M	RWY surface: Asphalt PCN 9/R/C/X/T	542409.16N 0073926.44W	THR 154.3 FT	
32	319.68°	1218 x 30 M	RWY surface: Asphalt PCN 9/R/C/X/T	542344.71N 0073850.87W	THR 154.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
		1418 x 86 M				RWY 14 Threshold displaced by 100 M including a starter extension of 100 x 20 M. Starter extension hard shoulder width 13 M.
		1418 x 86 M				RWY 32 Threshold displaced by 333 M including a starter extension of 100 x 20 M. Starter extension hard shoulder width 5 M.

EGAB AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	**2**	**3**	**4**	**5**	**6**
14	1199 M	1199 M	1199 M	1220 M	Declared distances include a starter extension of 100 x 20 M.
32	1199 M	1199 M	1199 M	992 M	Declared distances include a starter extension of 100 x 20 M.

EGAB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
14		Light intensity high Green wingbar	PAPI Left/3.5° 25 FT			56 M spacing White Light intensity high	Red Light intensity high		EDGE: Runway edge lights are displaced 7 M from the runway edge on shoulder of the hard surface.
32		Light intensity high Green wingbar	PAPI Left/4.4° 25 FT			56 M spacing White Light intensity high	Red Light intensity high		EDGE: Runway edge lights are displaced 7 M from the runway edge on shoulder of the hard surface.

EGAB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGAB AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	4 helipads in front of Control Tower.

EGAB AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ENNISKILLEN/ST ANGELO ATZ A circle, 2 NM radius, centred at 542355N 0073907W on longest notified runway (14/ 32).	Upper limit: 2000 FT AGL Lower limit: SFC	G	ENNISKILLEN RADIO English	3000 FT		

EGAB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	ENNISKILLEN RADIO	123.205 A/G frequency.			0900-1600 (0800-1600). Out of hours by arrangement.	ATZ hours coincident with A/G hours.

EGAB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGAB AD 2.20 LOCAL AERODROME REGULATIONS

1 AERODROME REGULATIONS

a) Aerodrome not available to aircraft unable to communicate by radio unless the pilot has received prior permission.

2 GROUND MOVEMENT

a) Taxiways C and D only available to aircraft with a wingspan of less than 12 m.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) HT cables 27 ft aal running east-west, 0.18 nm from Runway 14 threshold.
High ground and trees either side of the runway.
b) High ground and trees to the west of the Aerodrome.
c) Aircraft landing on Runway 14 may experience crosswinds from the southwest.
d) Operating aircraft should be aware of a right of way road crossing situated 110 m north of the Runway 32 threshold. The crossing is available H24 and is controlled by airport staff during operational hours only.

5 HELICOPTER OPERATIONS

a) Helicopter training takes place on the grass parallel to Runway 14/32.
b) Helicopter movements will also occur to/from Runway 14/32.
c) Helicopter circuits are to be flown parallel to the runway in use at 800 ft.
d) Helicopters must obtain specific permission to cross Runway 14/32.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGAB AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGAB AD 2.22 FLIGHT PROCEDURES

a) Circuit directions: Runway 14 - right hand; Runway 32 - left hand. Circuit height 1000 ft agl. Helicopter and microlight circuit height 800 ft agl.
b) Low Level circuits are permitted, but only for the purposes of practising bad weather flying.
c) The Turn Out after take-off, Touch and Go, Overshoot or Turn On to final approach should not be below 300 ft.
d) Non-standard procedures required for training purposes will only be permitted when the traffic situation allows.

EGAB AD 2.23 ADDITIONAL INFORMATION

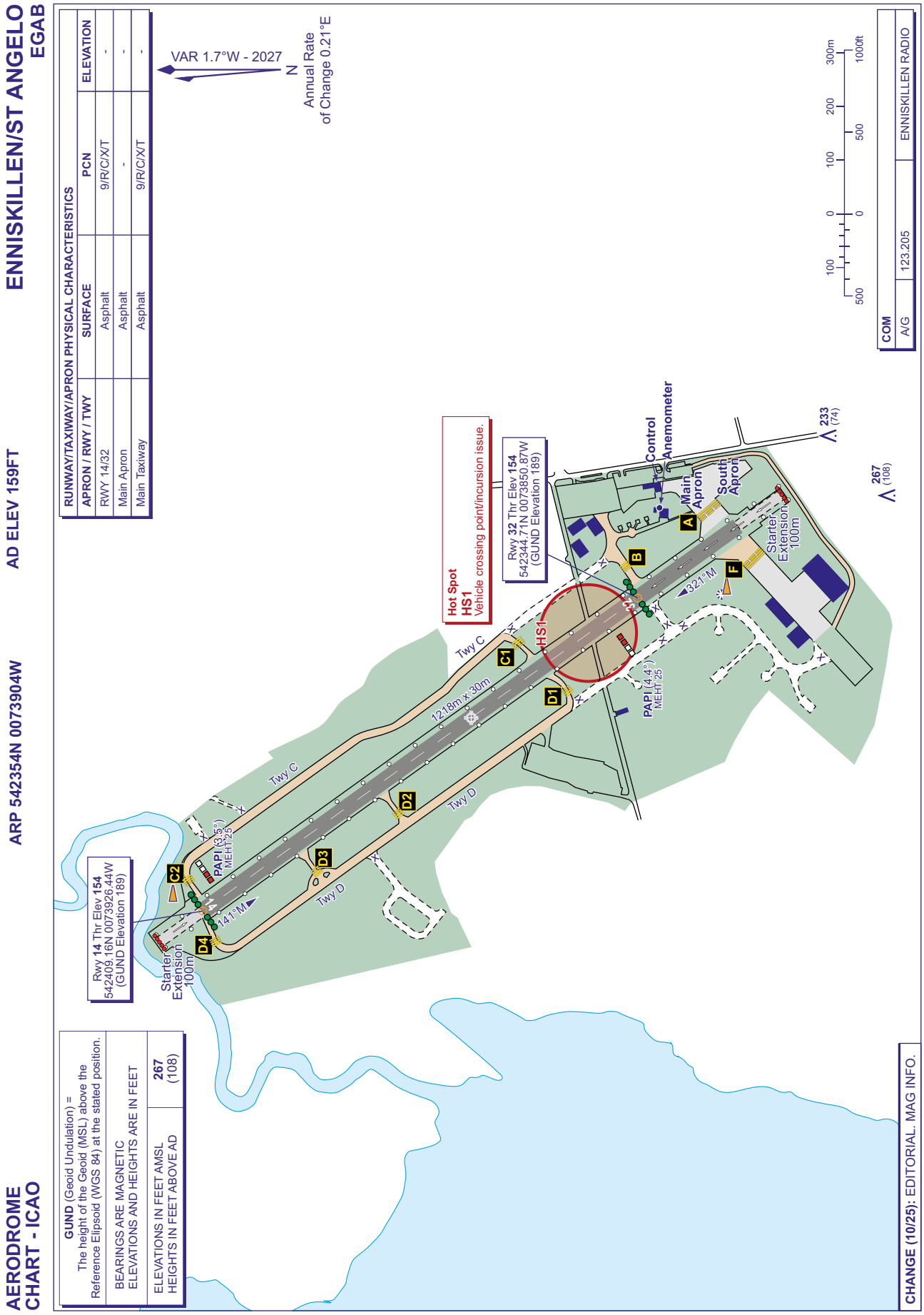
Not applicable

EGAB AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGAB-2-1

EGAB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable


AERODROME CHART - ICAO
ENNISKILLEN/ST ANGELO EGAB
AD ELEV 159FT
ARP 542354N 0073904W
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY | SURFACE | PCN | ELEVATION
RWY 14/32 | Asphalt | 9/R/C/X/T | -
Main Apron | Asphalt | - | -
Main Taxiway | Asphalt | 9/R/C/X/T | -
VAR 1.7°W - 2027
N
Annual Rate of Change 0.21°E
COM
A/G | 123.205 | ENNISKILLEN RADIO
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
267 (108)
Rwy 14 Thr Elev 154
542409.16N 0073926.44W
(GUND Elevation 189)
Rwy 32 Thr Elev 154
542344.71N 0073850.87W
(GUND Elevation 189)
Hot Spot
HS1
Vehicle crossing point/incursion issue.
1218m x 30m
Twy C
Twy D
PAPI (3.5°)
MEHT 25
PAPI (4.4°)
MEHT 25
141°M
321°M
Starter Extension 100m
Control
Anemometer
Main Apron
South Apron
233 (74)
267 (108)
CHANGE (10/25): EDITORIAL. MAG INFO.
AERO INFO DATE 21 JUL 25
AD 2-EGAB-2-1

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EGTE — EXETER

EGTE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTE — EXETER

EGTE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 504403N Long: 0032450W Midpoint of Runway 08/26
2	Direction and distance from city	4 NM E by N of Exeter.
3	Elevation / Reference temperature / Mean Low Temperature	102 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	169 FT
5	Magnetic Variation / Annual Change	0.53°W (2022) / 0.20°E
6	AD Administration	EXETER AND DEVON AIRPORT LTD
	Address	Exeter Airport, Exeter, Devon, EX5 2BD.
	Telephone	01392-367433 (Airfield Ops) 01392-354915 (Flight Briefing) 01392-354995 (XLR Executive Jet Centres) 01392-354957 (Ground Handling) 01392-354917 (Training Slots)
	Telefax	01392-364593 (ATC) 01392-447422 (Airfield Ops) 01392-354943 (XLR Executive Jet Centres)
	SITA	EXTOOXH
	E-mail address	ext.dispatch@exeter-airport.co.uk (Ground Handling) Jetcentre@xlrexeter.com (XLR Executive Jet Centres)
	Telex	42648
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Calls to ATC are recorded.

EGTE AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0800-1800 (0700-1900), Sat 0900-1700 (0700-1800), Sun 0900-1700 (0800-1900).
2	Customs and immigration	As per AD hours, via handling agent.
3	Health and sanitation	
4	AIS Briefing Office	As per ATS hours.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200). PPR is mandatory outside of published aerodrome administration hours. See also AD 2.18.
8	Fuelling	AVTUR JET A-1: As per AD hours. AVGAS 100LL: Mon-Fri 0800-1800 (0700-1800), Sat 0900-1700 (0700-1700), Sun 0900-1700 (0800-1800).
9	Handling	As per AD hours. All movements outside published aerodrome administration hours incur an extra charge and are subject to availability. For bookings contact Ground Handling or XLR Executive Jet Centres.
10	Security	As per AD hours.
11	De-icing	By arrangement via Ground Handling.
12	Remarks	PPR is mandatory outside of published aerodrome administration hours. For aircraft movements outside these hours contact Ground Handling or XLR Executive Jet Centres.

EGTE AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Bulk and ULD handling. Main deck hi-loader (pallet) 7000 kg, forklift. Limited facilities for outward cargo. Contact XLR Executive Jet Centres.

2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL Total Aero oil W80 and W100.
3	Fuelling facilities/capacity	AVTUR JET-A1 via bowser, AVGAS 100LL via self service/served pumps (see remarks).
4	De-icing facilities	Available. Contact Ground Handling.
5	Hangar space for visiting aircraft	Limited. Contact XLR Executive Jet Centres.
6	Repair facilities for visiting aircraft	Major for light aircraft. Minor for other aircraft.
7	Remarks	AVGAS 100LL. Only aircraft with a wingspan not exceeding 15 M are permitted to use the AVGAS installation, a maximum of three aircraft are permitted at any one time. No AVGAS 100LL bowser is available. Aircraft must call ATC prior to leaving the fuelling apron. For helicopters see AD 2.20. Self service AVGAS available to Exeter based and self serice card holders during aerodrome opening hours. Fuel opening hours apply to non-card holders and visiting aircraft.

EGTE AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity.
2	Restaurants	Licensed Restaurant, Cafe, Bar, Conference facilities.
3	Transportation	Buses, taxis and car hire. Nearest railway station: Exeter St. Davids and Tiverton Parkway
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Bureau de Change. ATM in Terminal.
6	Tourist Office	Tourist information is available at the Information desk.
7	Remarks	Executive lounge available via XLR Executive Jet Centres.

EGTE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 It is a condition of the use of the aerodrome that fire cover outside the published opening hours will be provided to the level required for the size and type of aircraft operating and requiring the use of a certificated aerodrome. RFF Category 6, RFFS provision will be provided for all scheduled movements at the appropriate category up to RFF Category 7. RFF Category 8 and 9 upon request.
2	Rescue equipment	3x Cobra major fire appliances.
3	Capability for removal of disabled aircraft	Light / medium aircraft can be removed using on site resources. Larger aircraft can be removed using outside sources in conjunction with the aircraft operator. Contact 01392 447433.
4	Remarks	

EGTE AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Exeter Airport's policy on clearing a contaminated runway will always be to clear back to a blacktop. Braking action readings/estimates derived from the use of Continuous Friction Measuring Equipment (CFME) or any other source will not be available. If the runway is open, operating procedures will promulgate information in accordance with Global Reporting Format (GRF) standard. Latest information from ATC 01392-354917.

EGTE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON 21 Surface: Asphalt PCN 27/F/B/Y/U APRON 22 Surface: Concrete PCN 53/R/B/X/U APRON 24 Surface: Asphalt PCN 27/F/B/Y/U MAIN APRON STANDS 2-5 Surface: Concrete and asphalt PCN 53/R/B/X/U MAIN APRON STANDS 6-10 Surface: Concrete and asphalt PCN 59/F/B/X/U NORTH APRON Surface: Asphalt PCN 40/F/B/X/U SOUTH APRON Surface: Asphalt PCN 52/F/B/X/U
2	Taxiway width, surface and strength	Taxiway A: 15.1 M Surface: Asphalt PCN 52/F/B/X/U Taxiway B: 23 M Surface: Concrete PCN 54/R/B/X/U Taxiway C: 15.1 M Surface: Asphalt PCN 52/F/B/X/U Taxiway D: 15.1 M Surface: Asphalt PCN 52/F/B/X/U Taxiway E: 10.5 M Surface: Asphalt PCN 16/F/B/Y/U Taxiway F: 7.5 M Surface: Asphalt PCN 10/F/B/Y/U Taxiway G: 17 M Surface: Asphalt PCN 40/F/B/X/U
3	Altimeter checkpoint location and elevation	Main Apron 102 FT.
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.

6	Remarks	Pilots are cautioned that Taxiways A and C are not suitable for use by aircraft whose wheelbase exceeds 18 M and whose wheelspan is greater than 9.1 M. Taxiway E is suitable for aircraft whose wheelbase is less than 7.5 M and wingspan less than 18 M and is available at night. Aircraft with a wingspan in excess of 20 M must be under tow. All aircraft using Taxiway E must exercise extreme caution due to the reduced obstacle clearances and vehicle movements. Taxiway F is suitable for aircraft up to 7.5 M wheelbase. Foxtrot 1 is not available at night. All aircraft using Taxiway F must exercise caution due to vehicle and helicopter movements. Taxiway G is suitable for use by code C aircraft to access the engine run and compass base facilities. Code D aircraft may use the taxiway by prior arrangement under tow. The grass parking is ordinarily available for use between April and October by light aircraft with a maximum wingspan of 12 M. Operators of light aircraft who cannot use the grass are requested to advise Flight Briefing prior to arrival so that appropriate parking arrangements can be made.

EGTE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	All main apron stands are parking with marshaller guidance. No aircraft must enter a stand without being under positive marshaller control. If a marshaller is not present advise ATC and hold on the apron taxiway. Into wind parking is available dependent upon the wind direction and stand availability (ACFT may be required to hold for suitable parking). Requests for into wind parking should be made as early as possible via Exeter Dispatch or ATC in advance of arrival. Pilots are to ensure that minimum power is used when taxiing away from any into wind parking stand and are to turn as soon as practically possible to enter the apron taxiway. Pilots are cautioned, that all stands have an upward incline towards the South, which may necessitate the use of increased power when taxiing on to stand on Stands 4–6 and especially when operating under single engine manoeuvres.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 08/26: Runway designation, threshold, centre-line, fixed distance, touchdown zone and edge. Taxiway marking aid(s): Taxiway centre-line and holding positions. Enhanced taxiway centre-line markings and runway ahead designators at each runway hold. The apron taxilane between Taxiways Bravo and Charlie has green reflective studs along its centre-line for its entire length. Taxiway Echo has green reflective centre-line studs. Taxiway Golf has green centre-line and blue reflective edge studs. Reflective markers on edge of Taxiway Charlie at intersection with the South Apron. Taxiway light(s): Taxiways Alpha, Bravo and Charlie entrance to/exit from runway indicated by alternate green/amber centre-line lights. Green centre-line lighting on Taxiways Alpha, Bravo and Charlie. The apron taxilane between Taxiways Bravo and Charlie has blue edge lights on northern edge. Taxiways Echo, Delta, Foxtrot and Golf are not equipped with taxiway lighting.
3	Stop bars and runway guard lights (if any)	Stopbars in use during darkness and Low Visibility conditions at holding points Alpha 1, Bravo 1 and Charlie 1. Runway guard lights at Alpha 1, Bravo 1, Charlie 1, Delta 1 and Echo 1 taxiway intersections.
4	Other runway protection measures	

5	Remarks	Wind direction indicators: 504411.84N 0032422.21W (LGTD); 504348.86N 0032518.66W (LGTD). Obstacle marking. Runway ahead, enhanced taxiway centre-line and mandatory instruction marking are located at all holding points. Retroreflective intersection departure distance signs at Bravo 1 and Charlie 1. When operational, blue linlaners along edges of grass taxiway. No entry signs at intersection of grass parking area to grass taxiway.

EGTE AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTE15005) 08/APPROACH 26/ TAKE-OFF	MAST	504825.82N 0030617.85W	1537 FT	773 FT	Yes Red	
(EGTE15095) 08/APPROACH 26/ TAKE-OFF	TREE	504603.83N 0031402.21W	828 FT	90 FT	No	
(EGTE15057) 08/APPROACH 26/ TAKE-OFF	MAST	504543.49N 0031242.76W	1027 FT	209 FT	Yes Red	
(EGTE15045) 08/APPROACH 26/ TAKE-OFF	TREE	504532.71N 0031404.17W	860 FT	85 FT	No	
(EGTE15328) 08/APPROACH 26/ TAKE-OFF	TREE	504520.59N 0031406.73W	856 FT	74 FT	No	
(EGTE15193) 08/APPROACH 26/ TAKE-OFF	TREE	504514.04N 0031941.94W	620 FT	89 FT	No	
(EGTE15247) 08/APPROACH 26/ TAKE-OFF	HV PYLON	504453.15N 0032041.71W	412 FT	95 FT	No	
(EGTE15329) 08/APPROACH 26/ TAKE-OFF	TREE	504451.74N 0031427.47W	876 FT	85 FT	No	
(EGTE15290) 08/APPROACH 26/ TAKE-OFF	TREE	504444.08N 0032005.69W	596 FT	99 FT	No	
(EGTE16304) 08/APPROACH 26/ TAKE-OFF	TREE	504428.73N 0032054.05W	374 FT	74 FT	No	
(EGTE15278) 08/APPROACH 26/ TAKE-OFF	TREE	504427.81N 0032000.61W	568 FT	66 FT	No	
(EGTE16471) 08/APPROACH 26/ TAKE-OFF	TREE	504419.90N 0032225.51W	278 FT	96 FT	No	
(EGTE14452) 08/APPROACH 26/ TAKE-OFF	TREE	504418.16N 0032251.47W	225 FT	71 FT	No	
(EGTE15399) 08/APPROACH 26/ TAKE-OFF	TREE	504417.03N 0032220.63W	287 FT	94 FT	No	
(EGTE16003) 08/APPROACH 26/ TAKE-OFF	TREE	504139.30N 0033555.46W	817 FT	119 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	TALL EQUIPMENT	504516N 0032310W	220 FT	115 FT	No	See AD 2.20 Warnings
(EGTE15535)	TREE	504453.53N 0032158.10W	295 FT	86 FT	No	
(EGTE15209)	TREE	504450.98N 0032010.56W	520 FT	81 FT	No	
(EGTE15200)	TREE	504448.72N 0031959.14W	575 FT	94 FT	No	
(EGTE15462)	HV PYLON	504326.68N 0032203.42W	398 FT	105 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTE15688)	TREE	504326.36N 0032150.83W	370 FT	66 FT	No	
(EGTE15982)	TREE	504056.60N 0032214.76W	632 FT	56 FT	No	

EGTE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone 01392-444523.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	METFORM 214-215, 414-415. METARs, TAFs, SIGMET, GAMET. Internet access.
8	Supplementary equipment available for providing information	ATIS 119.330 MHz. Self briefing terminal in Aviation South West briefing room.
9	ATS units provided with information	EXETER
10	Additional information (limitation of service, etc.)	

EGTE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
08	076.11°	2076 x 45 M	RWY surface: Asphalt, Grooved PCN 53/F/B/X/U	504355.43N 0032540.82W 169.0 FT	THR 99.8 FT	
26	256.13°	2076 x 45 M	RWY surface: Asphalt, Grooved PCN 53/F/B/X/U	504411.24N 0032359.98W 169.0 FT	THR 102.3 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
	215 x 150 M	2156 x 280 M				RWY 08 The downslope gradient over the first 400 M of LDA is: RWY 08 - 0.73%
	581 x 150 M	2156 x 280 M				RWY 26 Threshold displaced by 39 M. The downslope gradient over the first 400 M of LDA is: RWY 26 - 0.74%

EGTE AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	2036 M	2252 M	2036 M	2036 M	
26	2076 M	2657 M	2076 M	2036 M	
08	1665 M	1880 M	1665 M		Take-off from intersection of Taxiway Bravo.
08	1127 M	1342 M	1127 M		Take-off from intersection of Taxiway Golf.
08	1081 M	1296 M	1081 M		Take-off from intersection of Taxiway Delta.
08	791 M	1007 M	791 M		Take-off from intersection of Taxiway Charlie.
08	787 M	1002 M	787 M		Take-off from intersection of Taxiway Echo.
26	1819 M	2400 M	1819 M		Take-off from intersection of Taxiway Foxtrot.
26	1264 M	1846 M	1264 M		Take-off from intersection of Taxiway Echo.
26	1264 M	1846 M	1264 M		Take-off from intersection of Taxiway Charlie.
26	973 M	1460 M	973 M		Take-off from intersection of Taxiway Delta.
26	927 M	1391 M	927 M		Take-off from Intersection of Taxiway Golf.

EGTE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08	Coded centre-line with two crossbars. 332 M Light intensity high	Green Light intensity high Flush with wingbars	PAPI Left/3° 60 FT 438 M		Colour coded 15 M spacing HI	HI elev bi-directional with LI omni-directional component White, with last 600 M each side yellow caution zone	Red		
26	Coded centre-line with five crossbars. 750 M Light intensity high	Green Light intensity high Flush with wingbars	PAPI Left/3.5° 58 FT 361 M		Colour coded 15 M spacing HI	HI elev bi-directional with LI omni-directional component White, with last 600 M each side yellow caution zone	Red		

EGTE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 504407.70N 0032525.92W (unlit); 504413.03N 0032417.75W (unlit).
3	TWY edge and centre line lighting	CL: Green centre-line lighting on Taxiways Alpha, Bravo and Charlie. EDGE: Blue edge lighting on northern edge of the Apron taxiway and apron end of Taxiway Bravo.
4	Secondary power supply/switch-over time	Yes. Less than 1 second when RVR 800 M or less.
5	Remarks	Apron edge lighting. Apron floodlights. Obstacle lighting.

EGTE AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGTE AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
EXETER ATZ A circle, 2.5 NM radius, centred at 504403N 0032450W on longest notified runway (08/26)	Upper limit: 2000 FT AGL Lower limit: SFC	G	EXETER APPROACH English	3000 FT		Emergency services operations may occur H24, including outside of the operating hours of the aerodrome ATZ. Pilots are recommended to make a blind call on the Exeter Approach Frequency 128.980 MHz when transiting close to the ATZ.

EGTE AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	EXETER APPROACH	128.980 DOC 40 NM/ 16,000 FT.			Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	ATZ hours coincident with Approach hours.
TWR	EXETER TOWER	119.805 DOC 25 NM/4,000 FT.			Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	
RADAR	EXETER RADAR	123.580 DOC 40 NM/ 16,000 FT.			Not continuously guarded, ATC will advise	Radar serves Runway 08/26.
		128.980			Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	
ATIS	EXETER INFORMATION	119.330 DOC 60 NM/ 20,000 FT.			Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	
OTHER	EXETER FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGTE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.32°E (2027)	IET	109.900 MHz	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	504412.91N 0032349.23W		(RWY 08)
ILS/GP	IET	333.800 MHz	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	504353.55N 0032522.65W		3° ILS Ref Datum Hgt 50 FT.
ILS/LOC I 0.31°E (2027)	IXR	109.900 MHz	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	504354.22N 0032548.56W		(RWY 26) Range is restricted to 18 NM between 10 degree and 10 NM between 35 degree either side of the centre-line. Pilots are advised that full scale fly-up may not be observed when below the Glide Path and right of the centre-line for ILS Runway 26 I-XR.
ILS/GP	IXR	333.800 MHz	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	504413.27N 0032417.70W		3.5° ILS Ref Datum Hgt 58 FT. Quality of the guidance does not permit use of the Glide Path below 200 FT. Glide Path is not to be used at a range of greater than 8 NM from the threshold. Pilots landing on auto-coupled approach may experience greater than expected pitch up/pitch down inputs between 8 NM and 5 NM.
NDB (L) 0.35°E (2027)	EX	337.000 kHz	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	504507.75N 0031742.18W		Range 25 NM.
ILS/DME	IXR	36X 109.900 MHz	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	504413.13N 0032418.04W	112 FT	(RWY 26) On AD. DME freq paired with ILS I-ET and I-XR. Zero range is indicated at THR of Runway 26.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/DME	IET	36X 109.900 MHz	Mon-Fri 0630-0230 (0500-0200), Sat 0600-2100 (0500-0200), Sun 0600-2200 (0500-0200).	504353.55N 0032522.65W	120 FT	(RWY 08) On AD. DME freq paired with ILS I-ET and I-XR. Zero range is indicated at THR of Runway 08.

EGTE AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Fixed wing aircraft with a MTOW of 1800 KG or higher; and rotary aircraft with a MTOW of 1000 KG or higher; and all Military, State or Flying Display aircraft are always subject to mandatory handling. Operators are required to book in advance of arrival +44 (0)1392-354995, e-mail: Jetcentre@xlrexeter.com (XLR Executive Jet Centres). The exceptions to this are as follows:

i. Exeter based operators; in this instance it is the commander's responsibility to present to the Control Authorities any non-UK national as well as any other person/item required to be presented in accordance with current UK regulations as appropriate.
ii. Aircraft that are arriving for maintenance with an Exeter based facility; operators of such flights are required to identify on their flight plan as a remark, the facility that they are booked to visit. It is the commander's responsibility to present to the Control Authorities any non-UK national as well as any other person required to be presented in accordance with current UK regulations as appropriate.
iii. It always remains the aircraft operator's responsibility to notify the UK Control Authorities in advance of any applicable flight in line with current UK regulations.

b) Fixed wing aircraft with a MTOW of 1500 KG - 1799 KG requiring any duration parking on airport operated aprons/grass and/or Jet A1 fuel or any aircraft with MTOW less than 1499 KG requiring Jet A1 fuel, are always subject to prior permission (PPR). Booking via flight plan only or not via XLR is not accepted. A marshalling/transportation charge will be levied by XLR Exeter. Operators are required to book in prior to arrival via XLR Executive Jet Centres +44 (0)1392-354995; email: Jetcentre@xlrexeter.com. Exclusions as per points (a), (i) & (ii) above apply.

i. All General Aviation aircraft that fall outside of the scope for mandatory handling are requested to book in with flight briefing in advance of arrival +44 (0)1392-354915, especially prior to filing a flight plan to arrive from outside the UK. The exception to this is as follows: Exeter based operators; in this instance it is the commander's responsibility to present to the Control Authorities any non-UK national as well as any other person required to be presented in accordance with current UK regulations.
ii. It always remains the aircraft operator's responsibility to notify the UK Control Authorities in advance of any applicable flight in line with current UK regulations.

c) All commercial air transport operators should submit details of proposed flights and schedules to Airport Co-ordination Ltd, who act as an agent for the airport. Requests for ad-hoc slot allocations should be made to ACL during working hours 0830-1700 (0730-1600) Monday to Friday by SITA: LONACXH; e-mail: lonacxh@acl-uk.org; or Tel: +44(0)161-4931850, Fax: +44(0)161-4931853, or at all other times to Ground Handling +44 (0)1392-354957. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com/

d) Ordinarily all persons walking on the manoeuvring and airport apron areas, including the grass and north side at Exeter Airport, must wear high visibility clothing at all times. The only exception to this rule is that aircraft commanders wearing high visibility clothing are permitted to escort their passengers who are not wearing the required clothing up to a maximum of 5 per group when not on the Main Apron. For maximum effect high visibility clothing should be correctly fastened. Pilots and passengers are to use appropriate walkways between aircraft parking areas and landside. A footpath to be used, runs from the western edge of the South Apron across Apron 24 and Taxiway Charlie to the access control point. Under no circumstances are flight crew or passengers to walk along any portion of Taxiway Charlie. It is the responsibility of the aircraft commander/handling agent to ensure the safety of passengers and crew at all times.

e) All communications for airport owned ground handling services from aircraft inbound or on the ground should be made via 131.680 MHz callsign Exeter Dispatch.

f) General Aviation and non-commercial aircraft under 2 tonnes landing at Exeter in an emergency diversion situation will have the landing fees waived. The pilot will be required to complete details of the event for the aerodrome records.

g) Pilots of aircraft types which require to use brake chutes on landing are to advise the AD operator in advance of the flight via Airfield Operations so that chute collection arrangements may be made. Pilots are requested to advise ATC of the intention to stream prior to landing as published in CAP413.

h) Aircraft using the aerodrome must be equipped with a radio.

i) Parachuting and aerobatics are not permitted at the aerodrome and prior permission must be granted by the aerodrome authority for any parachuting and aerobatic activities within the aerodrome traffic zone.

j) Aircraft using Exeter Airport do so in accordance with the aerodromes conditions of use, a copy of which is available on application or via the aerodrome website.

k) It is a requirement that every airline using Exeter Airport have local orders compatible with the aerodrome Emergency Orders. Airlines, General Aviation operators and Flying Clubs should also note that it is their responsibility to recover disabled aircraft and aircraft wreckage

and have appropriate arrangements in place before commencing flying operations into the aerodrome. The aerodrome will act as the coordinating body throughout the recovery operation and has only very limited equipment which might be used to salvage disabled aircraft.

l) Banner towing by aircraft is not permitted.
m) Smoking airside is prohibited.

2 GROUND MOVEMENT

a) All aircraft parked on the main apron are required to start under marshallers instructions.
b) All pilots must state their location on the aerodrome when requesting start up.
c) Pushback Procedures:

i. Pilots should give full callsign, type, parking area/apron and/or stand number.
ii. Pilots should only request pushback when the tug and push crew are connected to the aircraft and they are actually ready to do so.
iii. Pilots are required not to illuminate aircraft anti-collision beacons until such a time as a start-up/pushback approval has been received from ATC, and when parked on the main apron, positive communication with ground personnel has been achieved.
iv. Pilots must ensure that they are in receipt of a pushback clearance from ATC on the tower frequency before allowing ground crew to pushback the aircraft onto a taxiway from any location.
v. Aircraft pushback from aprons must be conducted so that the aircraft is facing the intended direction of travel as instructed by ATC. All code D aircraft or higher parked on a numbered stand will be pushed back onto the apron taxiway to face west and expect to use Taxiway Bravo.
vi. Aircraft pushing back must at all times be in communication (voice/hand signals) with an EDAL approved marshaller. Based aircraft maintenance companies are included within this approval. In the event that a non-standard pushback is required by flight crew, this must be approved in advance of the aircraft doors being closed by Airfield Operations.

d) During low visibility when the reported prevailing or minimum visibility, or touchdown IRVR decreases below 800 M stop bars will be illuminated at holding points Alpha 1, Bravo 1 and Charlie 1. Runway protection barriers shall be deployed on all other runway holding points to prevent unauthorised access to the runway. Any pilot wishing to depart from the North Apron during such circumstances must advise ATC minus 15 minutes of requesting start-up clearance, so that arrangements can be made to temporarily allow access for departure. When the reported prevailing or minimum visibility, or touchdown IRVR decreases below 400 M, for aircraft on the south side of the airfield the preferential departure runway is Runway 08 via holding point Alpha 1 (holding point Bravo 1 for code D/E aircraft). If Runway 26 is required (operational necessity only), aircraft on the Main Apron must be using taxiway Bravo. For aircraft on the north side of the airfield the preferential departure runway is Runway 26, via holding point Echo 1 or holding point Golf from the North Apron. Pilots are advised that increased separation and movement restrictions may also apply during such conditions.
e) Code C or higher aircraft are not permitted to carry out 180 degree turns on Runway 08/26 between the runway thresholds. All code C or higher types must use the Runway 08 loop or the Runway 26 turning circle as applicable.
f) When operational, the grass taxiway from Runway 08/26 to the grass parking is available as instructed for vacating the runway only. Aircraft departing the grass parking will be instructed to do so via the exit onto taxiway Charlie and then to the appropriate holding point for the runway in use.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Light aircraft should be aware of the elevated runway lights and PAPI for Runway 08/26.
b) Pilots are advised that bird concentrations may be present in agricultural and construction areas on approaches to runways and in the vicinity of the aerodrome. Deterrent measures within the airport boundary are carried out by a Bird Control Unit and pilots may be requested by ATC to delay departure or arrival if bird concentrations within the BCU's area of control prove difficult to disperse.
c) Pilots are warned, when landing on Runway 26, of the possibility of Terrain/Building induced turbulence and wind shear effects.
d) Gliding, parachuting, light aircraft and microlights operate at Dunkeswell and North Hill aerodromes (10 NM NE EGTE).
e) Aircraft in the Dunkeswell ATZ may operate less than 5 NM north of the Final Approach Track to Runway 26. Deconfliction minima against this uncoordinated traffic cannot be guaranteed. Pilots should expect late warning of aircraft leaving the Dunkeswell ATZ and deconfliction minima may not be achieved.
f) To ensure safe operations and obstacle clearance, aircraft nose wheels are to always be aligned with taxiway centre-line whilst taxiing or under tow. Where the taxiway width is less than the paved surface width, the portions outside the double yellow taxi side stripe markings are not maintained and shall not be used by aircraft. Pilots are cautioned that the width of Taxiway Alpha and Charlie varies from 15.1 M to 18.5 M and does not in all cases meet outer main wheel gear span criteria of DH4 aircraft and are to ensure that the aircraft nose wheels are always aligned with taxiway centre-line.
g) Pilots are warned that unauthorised ground based laser lights have been directed towards aircraft in the vicinity of the aerodrome. All incidents should be reported immediately via the Tower to the Airport Authority.
h) Pilots are cautioned of increased helicopter activity between Echo 1 and Foxtrot 1 and should remain vigilant at all times. ATC may hold taxiing aircraft on Echo and Foxtrot to allow priority helicopter departures.
i) Pilots are warned of helicopter activity in and out of the RD and E Hospital situated on the final approach to Runway 08 at 3.25 NM from touchdown.
j) Pilots are advised that grass areas adjacent to paved aprons are not to be used for aircraft manoeuvring or parking.
k) Pilots are advised that the drains located along the eastern edge of the South Apron are not weight bearing and all manoeuvring/parking must be to the west of the double yellow taxi side stripe markings at all times.
l) Any instructed turn on the runway is to be made with caution and in between the side stripe markings. Pilots are cautioned that elevated runway edge lighting is installed on the pavement edge outside of the side stripe.
m) Building construction works involving the use of various tall equipment will be taking place in the vicinity north east of Exeter Airport until **31 December 2024.**

i. The operating area is bounded by lines joining the following points: 504501N 0032357W - 504511N 0032213W - 504537N 0032251W - 504516N 0032409W. Up to a maximum height of 115 FT AGL 220 FT AMSL.
ii. Operating hours are Monday to Friday between 0800-1800 (0700-1700). Outside of these hours all tall equipment will be lowered.

5 HELICOPTER OPERATIONS

a) A designated area for light helicopters requiring AVGAS 100LL is available at the existing installation. Helicopters will only be permitted to land in this area during daylight hours and provided that there are no other aircraft using the pumps. ATC will designate an area for helicopters to hold if the pumps are in use.
b) Helicopters must approach the AVGAS installation from the northeast. When landing, helicopters must align with the 'H' facing west. Before refuelling commences, pilots must ensure that rotor blades are aligned with the fuselage, or so positioned as to not infringe taxiway C. Caution must be used at all times when manoeuvring in this area.
c) No rotors running refuels may take place on the airport from the airport authorities fuel bowsers, with the exception of those aircraft on SAR/Ambulance tasks, in accordance with the airports operational instructions available from the refuelling manager, Tel: 01392-354931.
d) Helicopters inbound/outbound are to avoid over flying airport buildings whenever possible.
e) Helicopters advised to park on an apron south of Runway 08/26 or on parking areas accessed via Taxiway Golf, will be directed by ATC to approach via the main runway, then to ground/air taxi to the allocated apron area and park under marshaller's instructions. Upon departure, helicopters parked on these apron areas will ground/air taxi from the allocated stand as directed by ATC to Runway 08/26 prior to lift off. It is required that helicopters with wheels will at all times ground taxi from/to the runway and pilots are to advise ATC prior to landing/or upon start up if this is not achievable due to aircraft specifications. Helicopters with a MTOW of less than 5000 KG may at times be advised to approach from the northern airfield boundary and land directly on the North Apron under marshaller's instruction.

6 USE OF RUNWAYS

a) When the surface wind is calm or light and variable, Runway 26 is the preferential runway. When Runway 08 is the runway-in-use, pilots should note that other aircraft may require Runway 26 for departure, due to performance limitations.
b) Pilots of light aircraft must advise ATC if a backtrack for departure from a taxiway intersection is required.
c) When the reported met visibility decreases below 400 M, for aircraft on the south side of the airfield the preferential departure Runway is 08 via holding point Alpha 1 (holding point Bravo 1 for code D/E aircraft). If Runway 26 is required (operational necessity only), aircraft on the main apron must be using taxiway Bravo. For aircraft on the north side of the airfield the preferential departure Runway is 26, via holding point Echo 1 or holding point Golf from the North Apron. Pilots are advised that increased separation and movement restrictions may also apply during such conditions.

7 TRAINING

a) Aircraft using the aerodrome for instrument training and circuits must book slots by telephone to ATC (01392-354917). CCT height 1000 FT AAL, variation on request to ATC.
b) Training by jet aircraft over 5700 KG may be denied after 2000 (1900).
c) Training by any aircraft after 2200 (2100) may be denied.
d) When Runway 08 is in use, training aircraft are expected to hold at TOMPO (504243N 0033319W). Holding at NDB 'EX' may be available for training aircraft but approaches from 'EX' may be subject to delay.

EGTE AD 2.21 NOISE ABATEMENT PROCEDURES

Aircraft using the aerodrome will be required to conform to the following procedures notwithstanding that these procedures may be departed from to the extent necessary for avoiding immediate danger.

a) Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport, particularly the City of Exeter.
b) Unless otherwise required in the appropriate instrument approach procedure or otherwise instructed by ATC, inbound aircraft shall maintain as high an altitude as practicable and shall maintain at least 1000 ft aal, until commencing descent on final approach. An aircraft approaching without assistance from radar shall follow a descent path no lower than the normal approach path indicated by the PAPIs.
c) Unless otherwise instructed by ATC, all jet aircraft and propeller aircraft whose MTWA exceeds 5700 kg shall after take-off from:

i. Runway 26 climb on runway heading at the maximum rate compatible with safety to 1000 ft aal and then turn as soon as possible to avoid the City of Exeter.
ii. Runway 08 climb at the maximum rate compatible with safety to 1500 ft aal before turning.

d) For visual approaches, or following a visual circuit, to Runway 26 the following limitations apply:

i. Jet aircraft shall not join the final approach at a height of less then 1500 ft aal;
ii. Propeller driven aircraft whose MTWA exceeds 5700 kg shall not join the final approach at a height of less than 1000 ft aal.

Aircraft flying a visual approach should intercept the final approach track at a level not less than that equivalent to a 3.5° glide path at the intercept range. Final approach should be flown at not less than a nominal 3.5° glide path.

e) Auxiliary Power Units (APU).

APUs may only be operated for a maximum of one hour, or started thirty minutes prior to departure and not without the permission of the

aerodrome operator. Aircraft with rear ventral airstairs must shut down APUs immediately after arriving on stand. Ground Power Units (GPU) will be supplied where required.

f) Light aircraft should avoid overflying the villages of Clyst Honiton, Broadclyst, Whimple, West Hill, Aylesbeare and Farringdon whenever possible or as otherwise directed by ATC.

g) Continuous Descent Approaches

i. Jet and turbo-prop aircraft are expected to apply continuous descent, low power, low drag approach techniques whenever possible.
ii. Subject to ATC instructions, inbound aircraft are to maintain as high an altitude as practical and adopt a low power, low drag, continuous descent approach profile. ATC will provide estimated track distance to touchdown to allow pilots to descend at a rate they judge best suited to achieve continuous descent without using more power or drag than necessary. The object will be to join the glidepath at the appropriate height for the distance without level flight.
iii. ATC will provide range checks. Pilots who require additional track mileage to facilitate a successful CDA should inform ATC as soon as possible

EGTE AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

2 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

3 PROCEDURE FOR INBOUND FLIGHTS

a) **IFR Arrivals and Overflights**

i. Arrivals are to establish communications with ATC at least 10 minutes prior to ETA at NDB(L) EX, whenever possible, stating what type of service they require (deconfliction, traffic or basic, as appropriate).

b) **VFR Arrivals and Overflights**

i. Joining, or overflight instructions, may be issued with a level restriction e.g. 'Not below 1500 FT', in order to facilitate integration into the circuit or to assist in deconflicting from other traffic. Such a restriction does not absolve pilots from any requirement they may have to remain in VMC at all times and pilots must advise ATC if unable to comply with the level restriction.
ii. Arriving or overflying VFR flights should avoid the instrument approach let-down areas and the departure climb outs at all times, unless ATC have indicated there is no traffic to affect. ATC may suggest a route or track to assist pilots in this, which may also be combined with a level restriction.
iii. Overflying VFR aircraft are advised that the area to the immediate east and west of Exeter Airport is where holding patterns are established. They are frequently used by aircraft flying according to IFR.

4 PROCEDURES FOR OUTBOUND AIRCRAFT

a) **VFR Departures**

i. VFR departures may be requested to fly a route to assist in deconflicting traffic and aid circuit integration; e.g. 'Depart to the south east, due instrument traffic'. Such restrictions will be removed by ATC as soon as is practicable, and do not absolve pilots from any requirement they may have to remain in VMC at all times. Pilots must advise ATC if unable to comply with a level or routing request.
ii. Aircraft on local flights (departing and landing back at Exeter) should specify either the cardinal or intermediate track they wish to fly on departure on either book-out or first contact with ATC (i.e. ‘local to north-west…’).

b) **IFR Departures**

i. IFR departures should inform ATC prior to departure which ATC service they will be requesting on departure, i.e. deconfliction, traffic or basic, as appropriate for their requirements.
ii. IFR departure clearances are available before start and pushback.
iii. Flight plans filed direct to SAM may be subject to a route change via GIBSO.

EGTE AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGTE AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTE-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGTE-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGTE-5-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 08 - ICAO
AD 2.EGTE-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 08 - ICAO
AD 2.EGTE-8-2
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 08 - ICAO
AD 2.EGTE-8-3
INSTRUMENT APPROACH CHART RNP RWY 08 - ICAO
AD 2.EGTE-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 08 - ICAO
AD 2.EGTE-8-5
INSTRUMENT APPROACH CHART DIRECT ARRIVALS RWY 08 - ICAO
AD 2.EGTE-8-6
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 26 - ICAO
AD 2.EGTE-8-7
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 26 - ICAO
AD 2.EGTE-8-8
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 26 - ICAO
AD 2.EGTE-8-9
INSTRUMENT APPROACH CHART RNP RWY 26 - ICAO
AD 2.EGTE-8-10
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 26 - ICAO
AD 2.EGTE-8-11
INSTRUMENT APPROACH CHART NDB(L) RWY 26 - ICAO
AD 2.EGTE-8-12
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 08
AD 2.EGTE-8-13
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 26
AD 2.EGTE-8-14

EGTE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 504403N 0032450W

AD ELEV 102FT

EXETER
EGTE

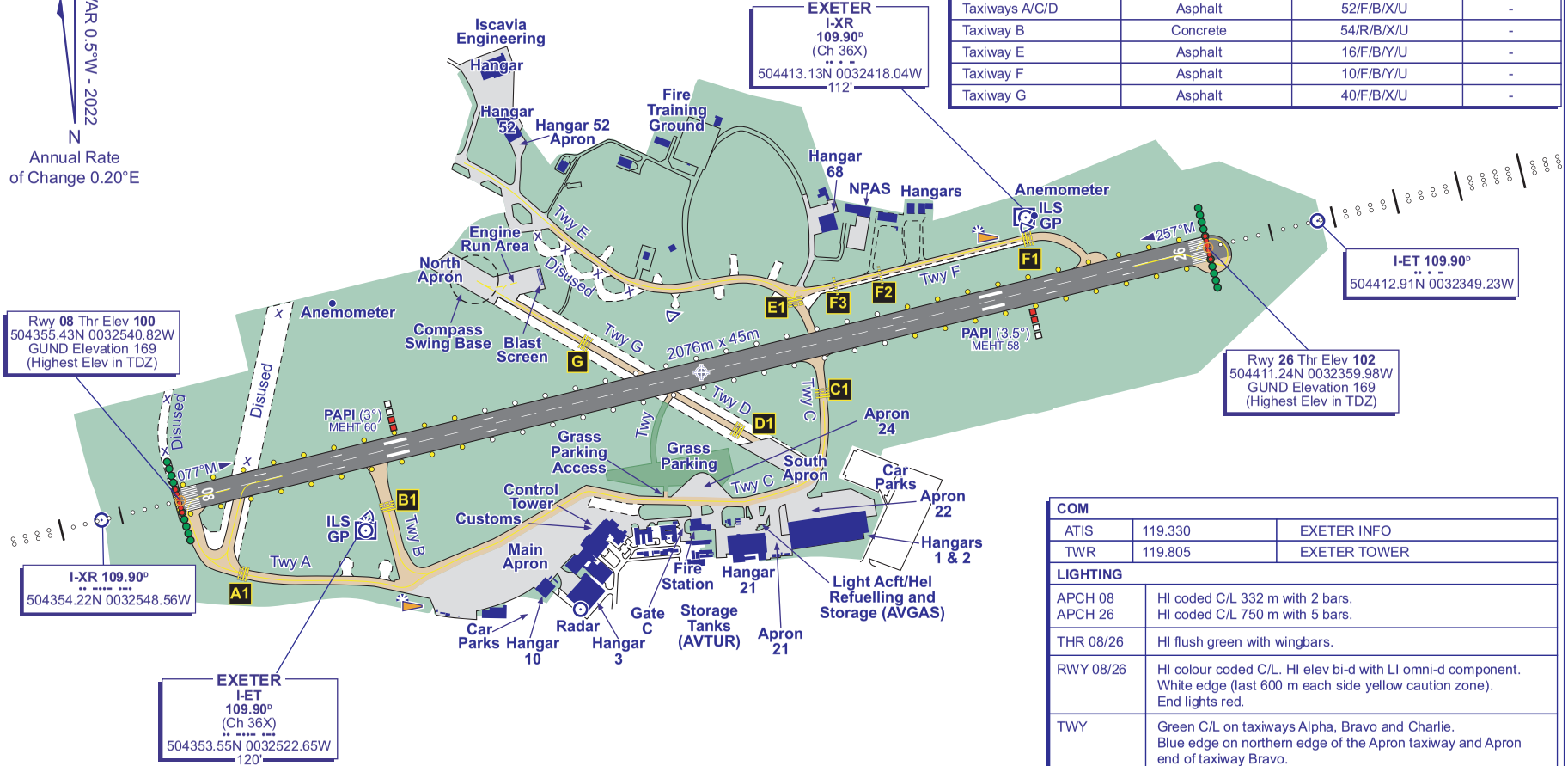
AERO INFO DATE 23 JAN 24

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**102**

100 0 100 200 300 m
200 0 200 400 600 800 1000 ft

VAR 0.5°W - 2022
N
Annual Rate of Change 0.20°E

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
RWY 08/26	Grooved Asphalt	53/F/B/X/U	-
Main Apron (Stands 2-5)	Concrete/Asphalt	53/R/B/X/U	-
Main Apron (Stands 6-10)	Concrete/Asphalt	59/F/B/X/U	-
Apron 21/Apron 24	Asphalt	27/F/B/Y/U	-
Apron 22	Concrete	53/R/B/X/U	-
South Apron	Asphalt	52/F/B/X/U	-
North Apron	Asphalt	40/F/B/X/U	-
Taxiways A/C/D	Asphalt	52/F/B/X/U	-
Taxiway B	Concrete	54/R/B/X/U	-
Taxiway E	Asphalt	16/F/B/Y/U	-
Taxiway F	Asphalt	10/F/B/Y/U	-
Taxiway G	Asphalt	40/F/B/X/U	-



COM		
ATIS	119.330	EXETER INFO
TWR	119.805	EXETER TOWER
LIGHTING		
APCH 08 APCH 26	HI coded C/L 332 m with 2 bars. HI coded C/L 750 m with 5 bars.	
THR 08/26	HI flush green with wingbars.	
RWY 08/26	HI colour coded C/L. HI elev bi-d with LI omni-d component. White edge (last 600 m each side yellow caution zone). End lights red.	
TWY	Green C/L on taxiways Alpha, Bravo and Charlie. Blue edge on northern edge of the Apron taxiway and Apron end of taxiway Bravo. Stopbars at holds A1, B1, C1. Guard lights at A1, B1, C1, D1 & E1.	

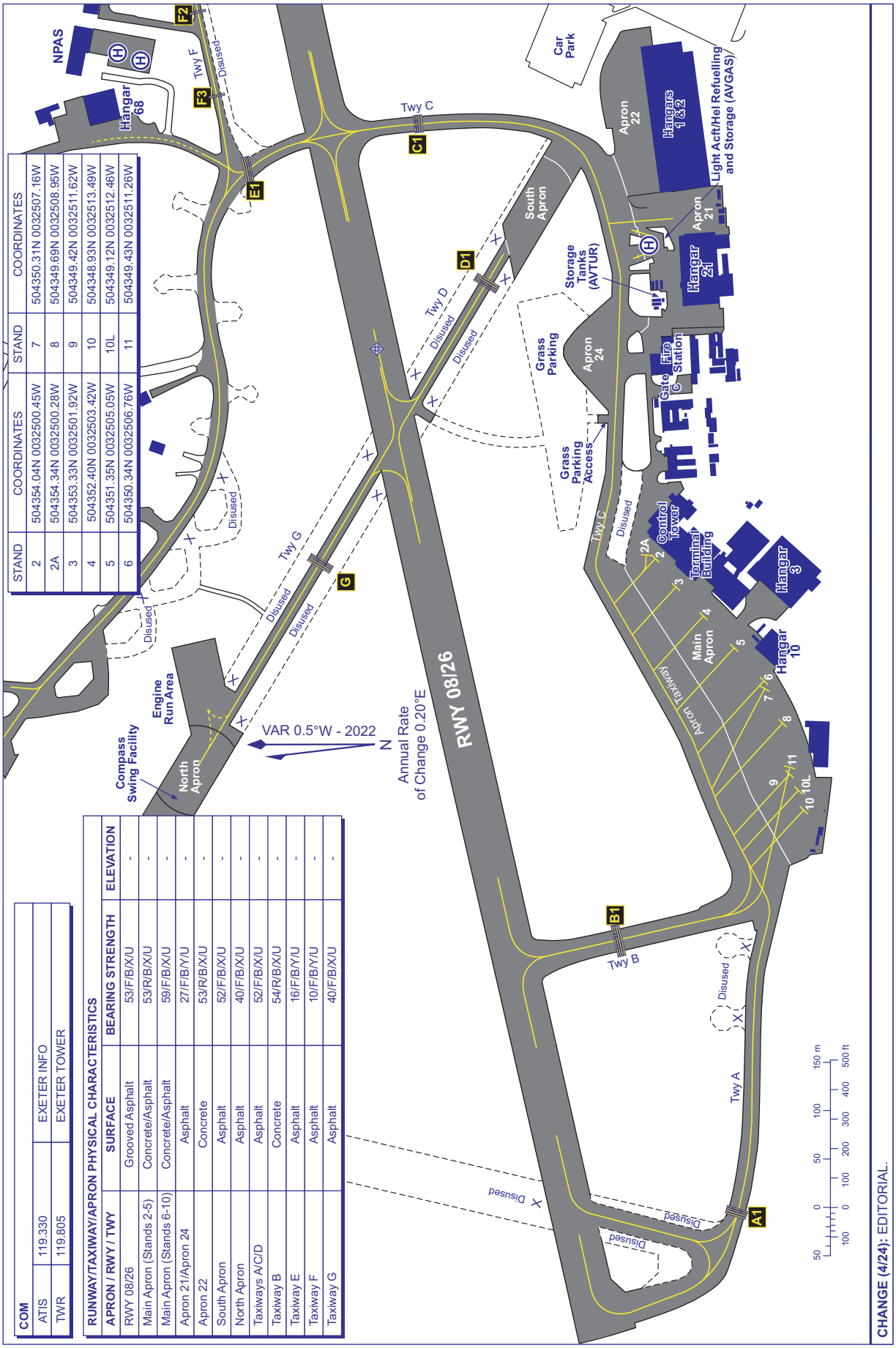
CHANGE (4/24): TWY LIGHTING INFO STOP BAR REMOVED HOLD E1. EDITORIAL.

AIRCRAFT PARKING/DOCKING CHART - ICAO

EXETER EGTE

AD ELEV 102FT

ARP 504403N 0032450W



STAND	COORDINATES
2	504354.04N 0032500.45W
2A	504354.34N 0032500.28W
3	504353.33N 0032501.92W
4	504352.40N 0032503.42W
5	504351.35N 0032505.05W
6	504350.34N 0032506.76W

STAND	COORDINATES
7	504350.31N 0032507.16W
8	504349.69N 0032508.95W
9	504349.42N 0032511.62W
10	504348.93N 0032513.49W
10L	504349.12N 0032512.46W
11	504349.43N 0032511.26W

COM		
ATIS	119.330	EXETER INFO
TWR	119.805	EXETER TOWER

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 08/26	Grooved Asphalt	53/F/B/X/U	-
Main Apron (Stands 2-5)	Concrete/Asphalt	53/R/B/X/U	-
Main Apron (Stands 6-10)	Concrete/Asphalt	59/F/B/X/U	-
Apron 21/Apron 24	Asphalt	27/F/B/Y/U	-
Apron 22	Concrete	53/R/B/X/U	-
South Apron	Asphalt	52/F/B/X/U	-
North Apron	Asphalt	40/F/B/X/U	-
Taxiways A/C/D	Asphalt	52/F/B/X/U	-
Taxiway B	Concrete	54/R/B/X/U	-
Taxiway E	Asphalt	16/F/B/Y/U	-
Taxiway F	Asphalt	10/F/B/Y/U	-
Taxiway G	Asphalt	40/F/B/X/U	-

CHANGE (4/24): EDITORIAL.

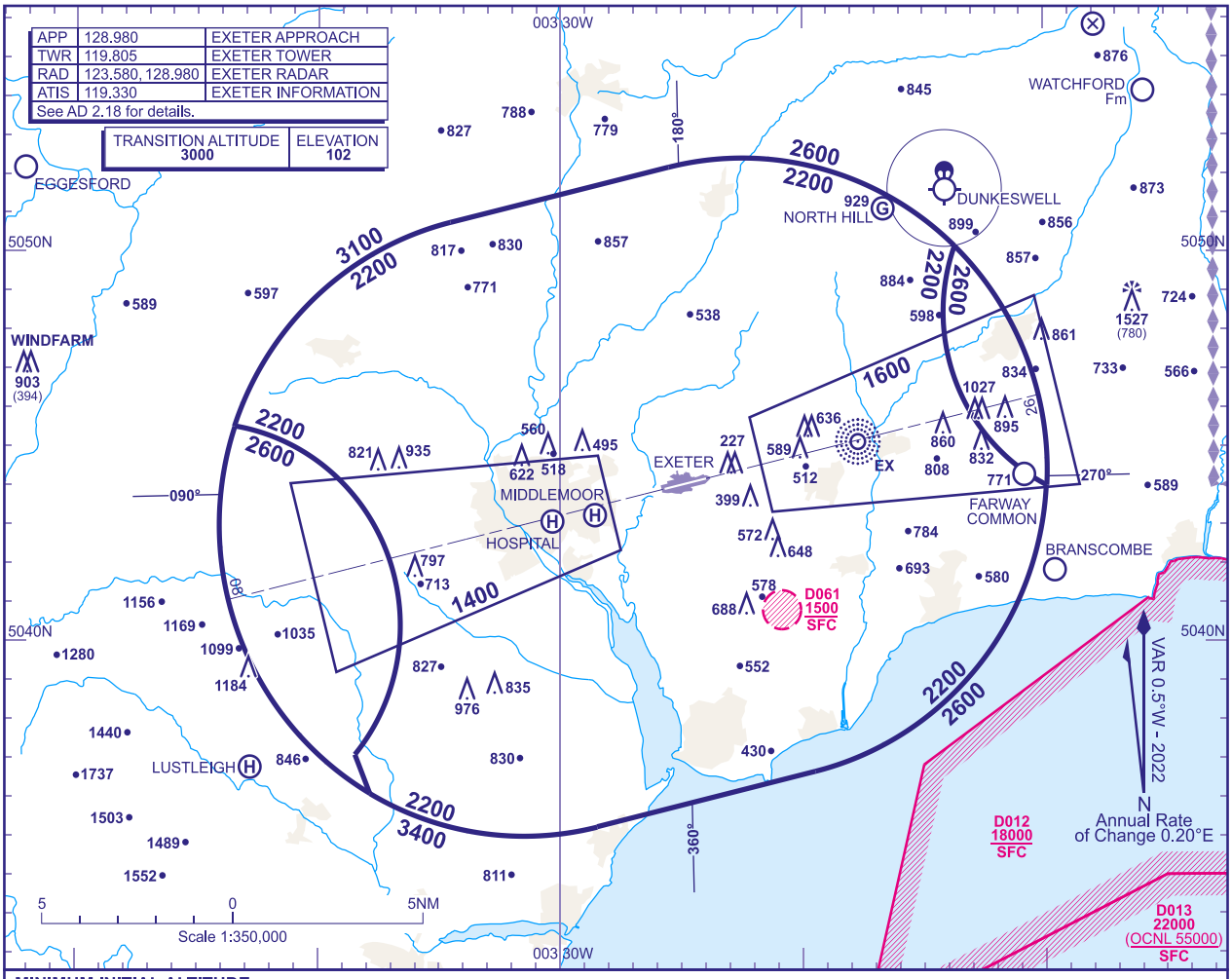
AERO INFO DATE 08 FEB 24

AD 2-EGTE-2-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1522
HEIGHTS IN FEET AGL (780)

EXETER



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2200** in the sector defined by the lateral limits; 505046N 0033433W - 505211N 0032531W thence clockwise by an arc of a circle radius 8NM centred on 504425N 0032229W to 505009N 0031341W thence anti-clockwise by an arc of a circle radius 5NM centred on 504826N 0030617W to 504400N 0030954W thence clockwise by an arc of a circle radius 8NM centred on 504425N 0032229W to 503640N 0031929W - 503515N 0032829W thence clockwise by an arc of a circle radius 8NM centred on 504300N 0033130W to 503606N 0033751W - 503706N 0033828W thence anti-clockwise by an arc of a circle radius 5.2NM centred on 504024N 0034447W to 504531N 0034327W thence clockwise by an arc of a circle radius 8NM centred on 504300N 0033130W to 505046N 0033433W.

b) **2600** in the sector defined by the lateral limits; 504531N 0034327W thence clockwise by an arc of a circle radius 5.2NM centred on 504024N 0034447W to 503706N 0033828W - 503606N 0033751W thence clockwise by an arc of a circle radius 8NM centred on 504300N 0033130W to 504531N 0034327W.

c) **2600** in the sector defined by the lateral limits; 505009N 0031341W thence clockwise by an arc of a circle radius 8NM centred on 504425N 0032229W to 504400N 0030954W thence clockwise by an arc of a circle radius 5NM centred on 504826N 0030617W to 505009N 0031341W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) EX**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) EX**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (4/25): HOSPITAL HELI ADDED.

AERO INFO DATE 24 JAN 25

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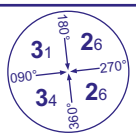
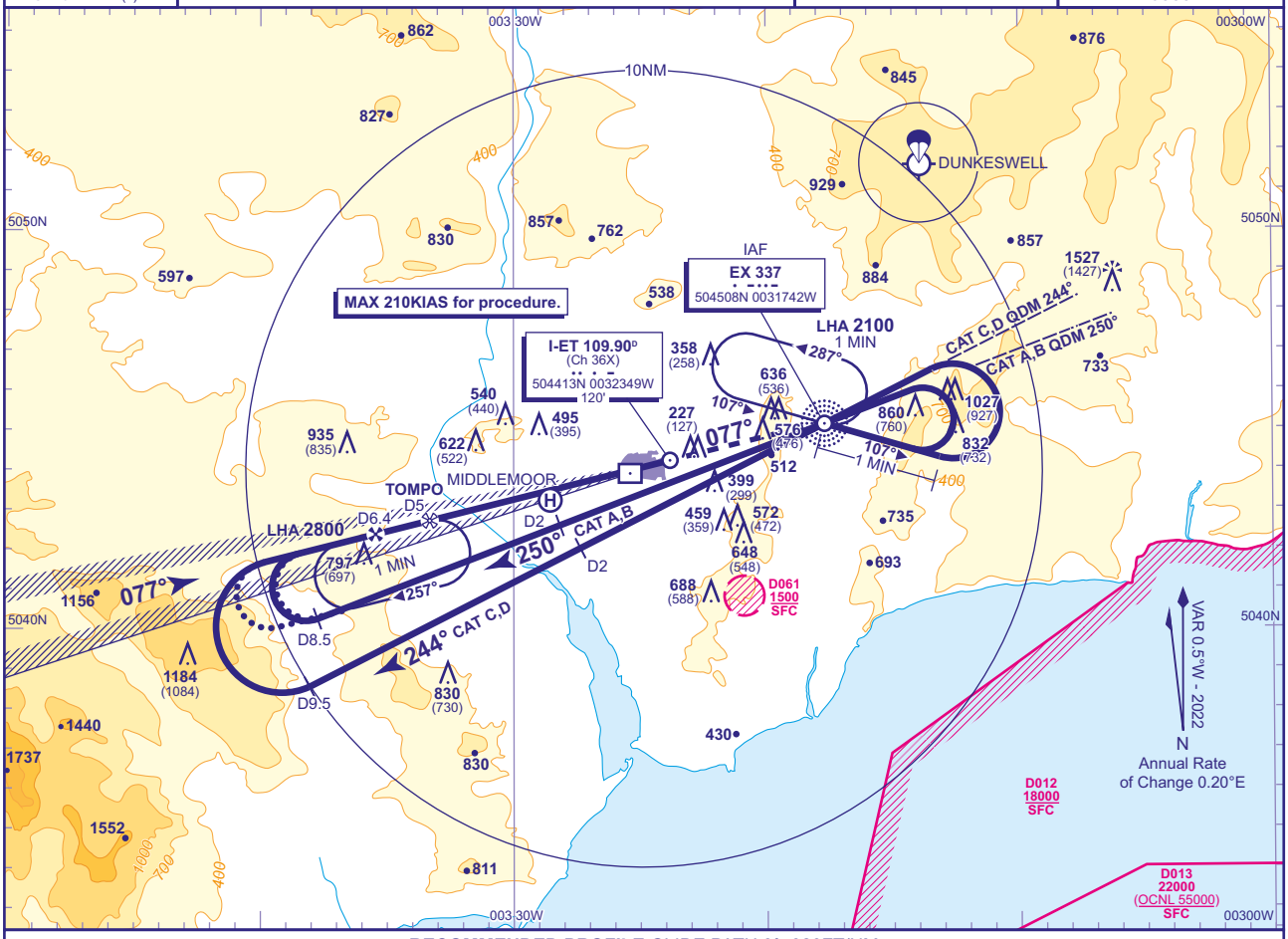
INSTRUMENT APPROACH CHART - ICAO

EXETER
ILS/DME/NDB(L) RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EX

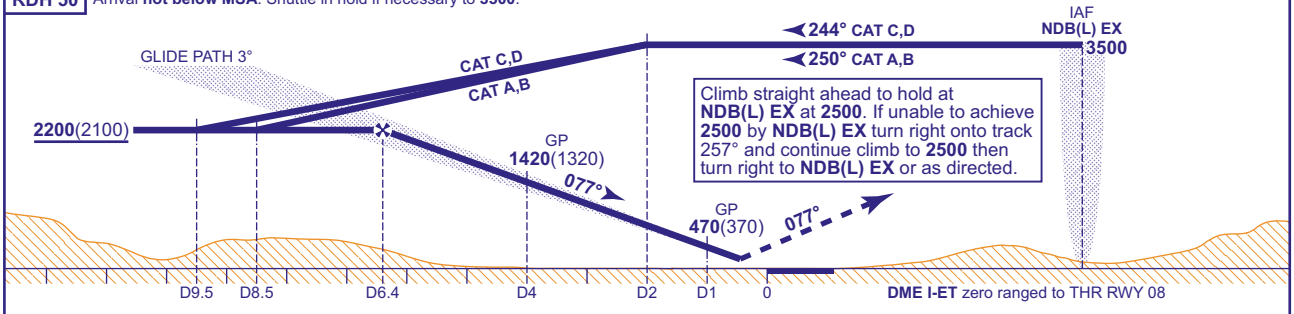
APP	128.980	EXETER APPROACH	AD ELEVATION	102	
TWR	119.805	EXETER TOWER	THR ELEVATION	100	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION	1527 AMSL (1427) (ABOVE THR)	
ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-ET	6	5	4	3	2	1
ALT(HGT)	**2060**(1960)	**1740**(1640)	**1420**(1320)	**1100**(1000)	**790**(690)	**470**(370)

RDH 50 Arrival **not below MSA**. Shuttle in hold if necessary to **3500**.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**240**(140)	**249**(149)	**259**(159)	**272**(172)
VM(C)OCA (OCH AAL)	Total Area	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE (FROM TOMPO HOLD)
Shuttle as required in the TOMPO hold to **3000**. Extend the outbound leg of the hold descending to **not below 2200**(2100). At I-ET DME 8.5 (CAT A,B) or I-ET DME 9.5 (CAT C,D) commence right turn to establish on the localiser then continue as for basic procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-ET
Advise ATC. Radar Ranges will be provided at 2NM outbound and 8.5NM or 9.5NM outbound and at 6.5NM and 4NM inbound.

NOTE 1 Lowest altitude to commence procedure from hold after a missed approach is **2500**.
2 ATC will normally require aircraft to hold not lower than **3500** at NDB(L) EX or **3500** at TOMPO.
3 TOMPO hold not available without DME I-ET.

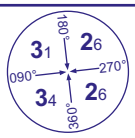
CHANGE (11/23): OCA(OCH) CAT A/B/C. VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 03 AUG 23

AD 2-EGTE-8-1

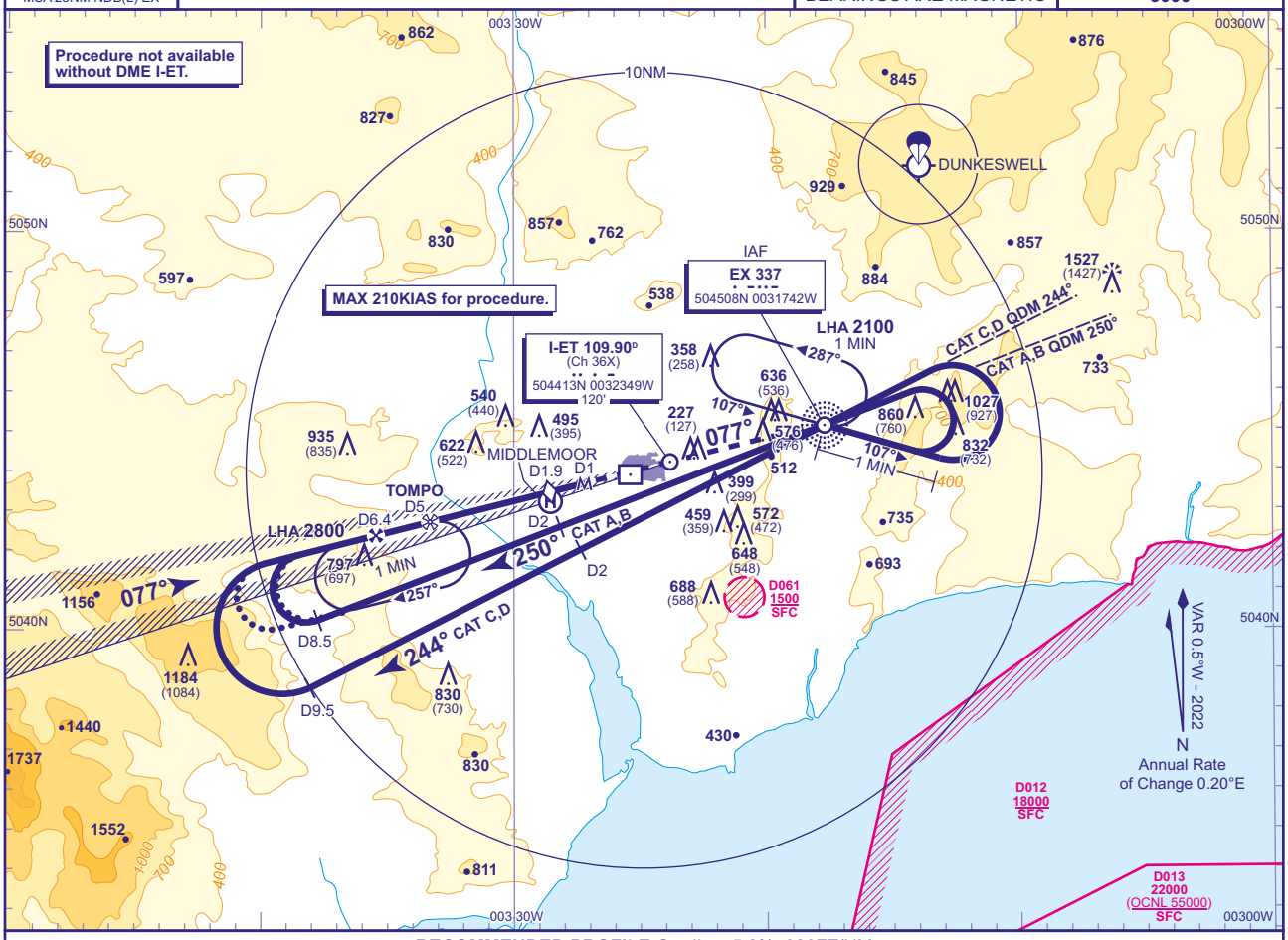
INSTRUMENT APPROACH CHART - ICAO

EXETER
LOC/DME/NDB(L)
RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EX

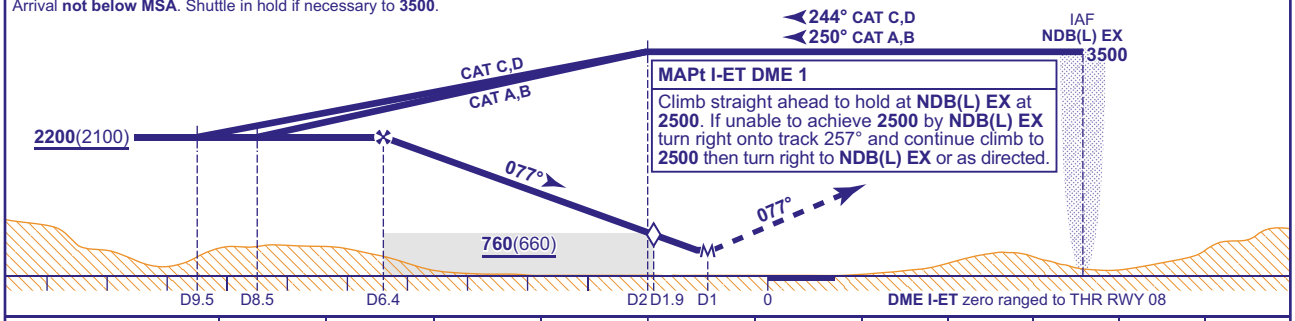
APP	128.980	EXETER APPROACH	AD ELEVATION	**102**	
TWR	119.805	EXETER TOWER	THR ELEVATION	**100**	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION **1527 AMSL** (1427) (ABOVE THR)		
ATIS	119.330	EXETER INFORMATION			
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-ET	6	5	4	3	2	1.9 (SDF)
ALT(HGT)	**2060**(1960)	**1740**(1640)	**1420**(1320)	**1100**(1000)	**790**(690)	**760**(660)

Arrival **not below MSA**. Shuttle in hold if necessary to **3500**.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**490**(390)	**490**(390)	**490**(390)	**490**(390)
VM(C)OCA (OCH AAL)	**Total Area**	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE (FROM TOMPO HOLD)
Shuttle as required in the TOMPO hold to **3000**. Extend the outbound leg of the hold descending to **not below 2200**(2100). At I-ET DME 8.5 (CAT A,B) or I-ET DME 9.5 (CAT C,D) commence right turn to establish on the localiser then continue as for basic procedure.

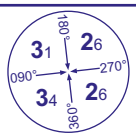
NOTE 1 Lowest altitude to commence procedure from hold after a missed approach is **2500**.
2 ATC will normally require aircraft to hold not lower than **3500** at NDB(L) EX or **3500** at TOMPO.
3 TOMPO hold not available without DME I-ET.

CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 03 AUG 23 AD 2-EGTE-8-2

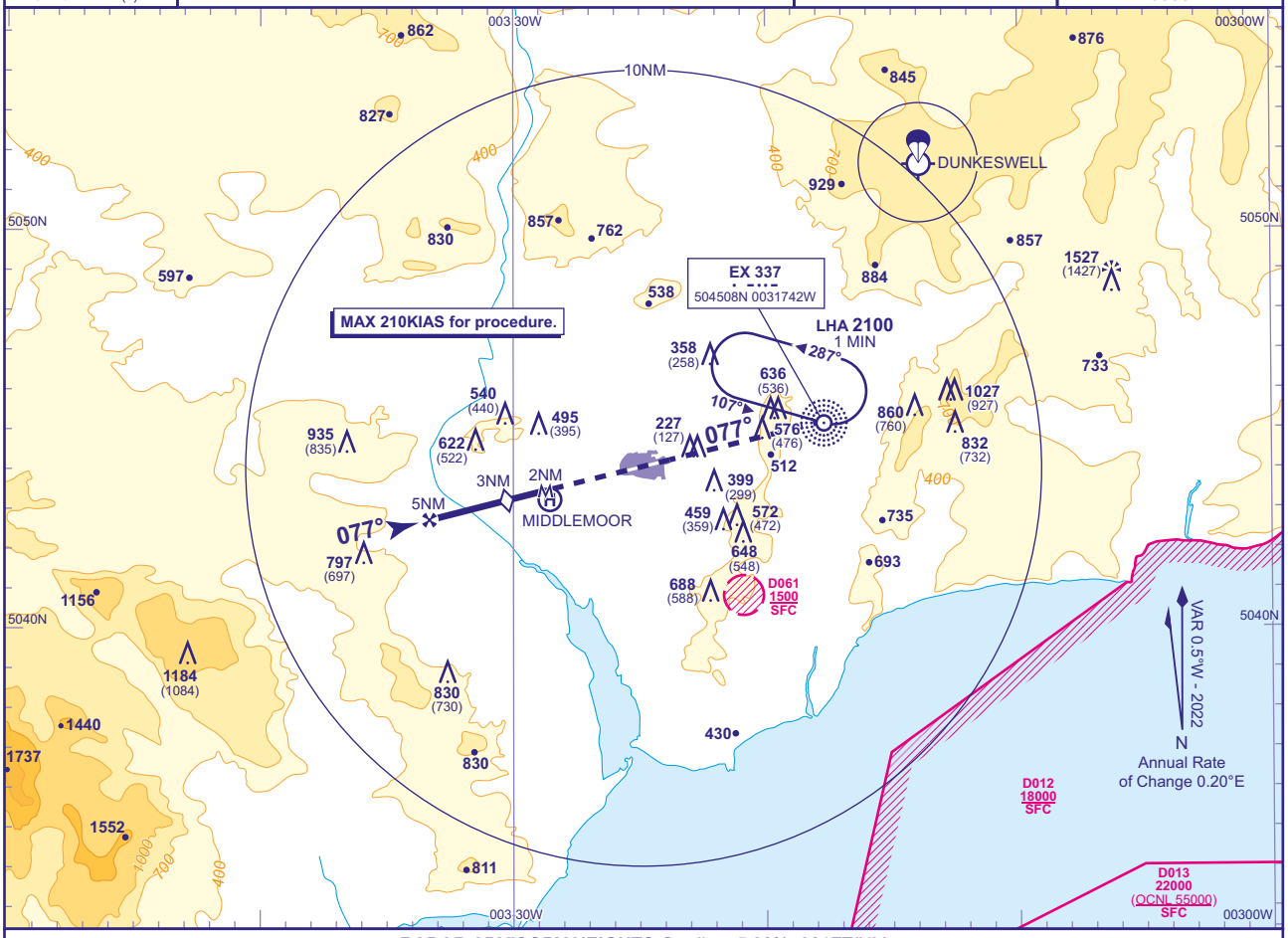
INSTRUMENT APPROACH CHART - ICAO

EXETER
SRA RTR 2NM
RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EX

APP	128.980	EXETER APPROACH	AD ELEVATION	102	TRANSITION ALTITUDE 3000
TWR	119.805	EXETER TOWER	THR ELEVATION	100	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION 1527 AMSL (1427) (ABOVE THR)		
ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC		



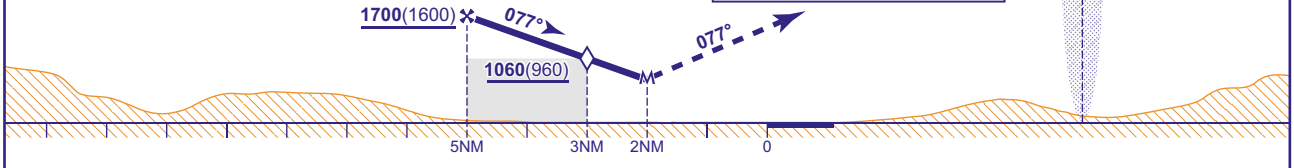
RADAR ADVISORY HEIGHTS Gradient 5.28%, 321FT/NM

NM	5.0	4.0	3.0 **(SDF)**	2.0
ALT(HGT)	**1700**(1600)	**1380**(1280)	**1060**(960)	**740**(640)

Initial and intermediate approach as directed by radar.

MAPt RTR 2NM

Climb straight ahead to hold at **NDB(L) EX** at **2500**. If unable to achieve **2500** by **NDB(L) EX** turn right onto track 257° and continue climb to **2500** then turn right to **NDB(L) EX** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**750**(650)	**750**(650)	**750**(650)	**750**(650)
VM(C)OCA (OCH AAL)	**Total Area**	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	860	750	640	530	430

NOTE 1 ATC will normally require aircraft to hold not lower than **3500**.

CHANGE (11/23): OCA(OCH). VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 03 AUG 23

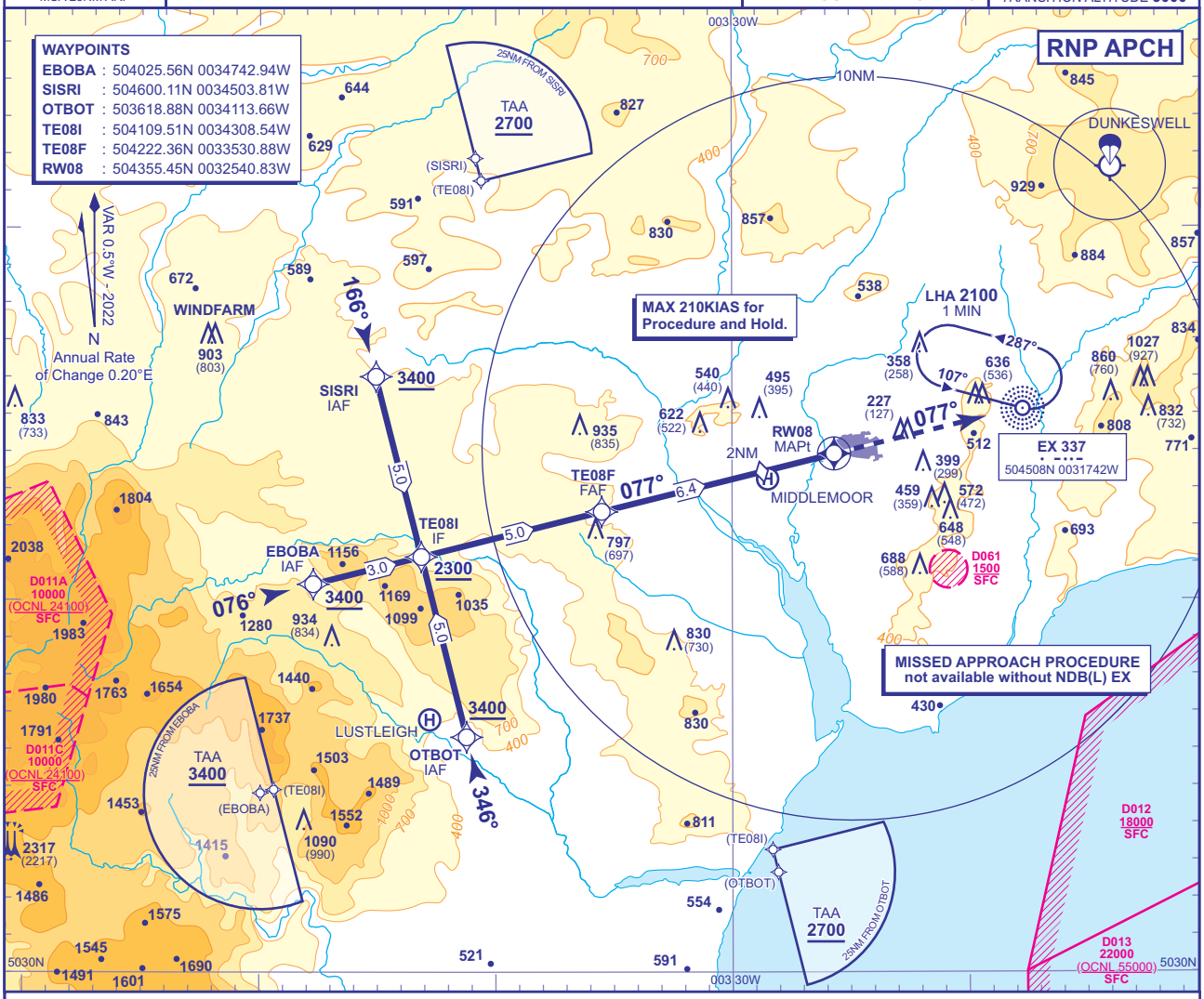
AD 2-EGTE-8-3

INSTRUMENT APPROACH CHART - ICAO

EXETER
RNP
RWY 08
(ACFT CAT A,B,C,D)

3⁴ MSA 25NM ARP	APP	128.980	EXETER APPROACH	AD ELEVATION	102
	TWR	119.805	EXETER TOWER	THR ELEVATION	100
	RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION	
	ATIS	119.330	EXETER INFORMATION	2325 AMSL (2225) (ABOVE THR)	
				BEARINGS ARE MAGNETIC	

MIN TEMP **-15°C**
TRANSITION ALTITUDE **3000**



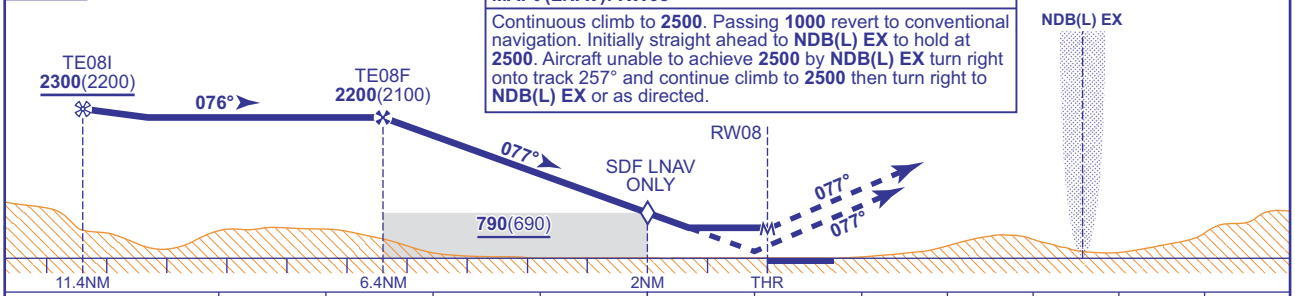
RECOMMENDED PROFILE VNAV - Vertical path Angle 3° (LNAV 5.24%), 318FT/NM

NM to RW08	6	5	4	3	2 (SDF)	1
ALT(HGT)	**2060**(1960)	**1740**(1640)	**1420**(1320)	**1100**(1000)	**790**(690)	**470**(370)

TCH 50

MAPt (LNAV): RW08

Continuous climb to **2500**. Passing **1000** revert to conventional navigation. Initially straight ahead to **NDB(L) EX** to hold at **2500**. Aircraft unable to achieve **2500** by **NDB(L) EX** turn right onto track 257° and continue climb to **2500** then turn right to **NDB(L) EX** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**480**(380)	**480**(380)	**480**(380)	**480**(380)
	LNAV	**560**(460)	**560**(460)	**560**(460)	**560**(460)
VM(C)OCA (OCH AAL)	Total Area	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

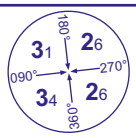
CHANGE (11/23): TAA SISRI/OTBOT MOCA. VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 03 AUG 23

AD 2-EGTE-8-4

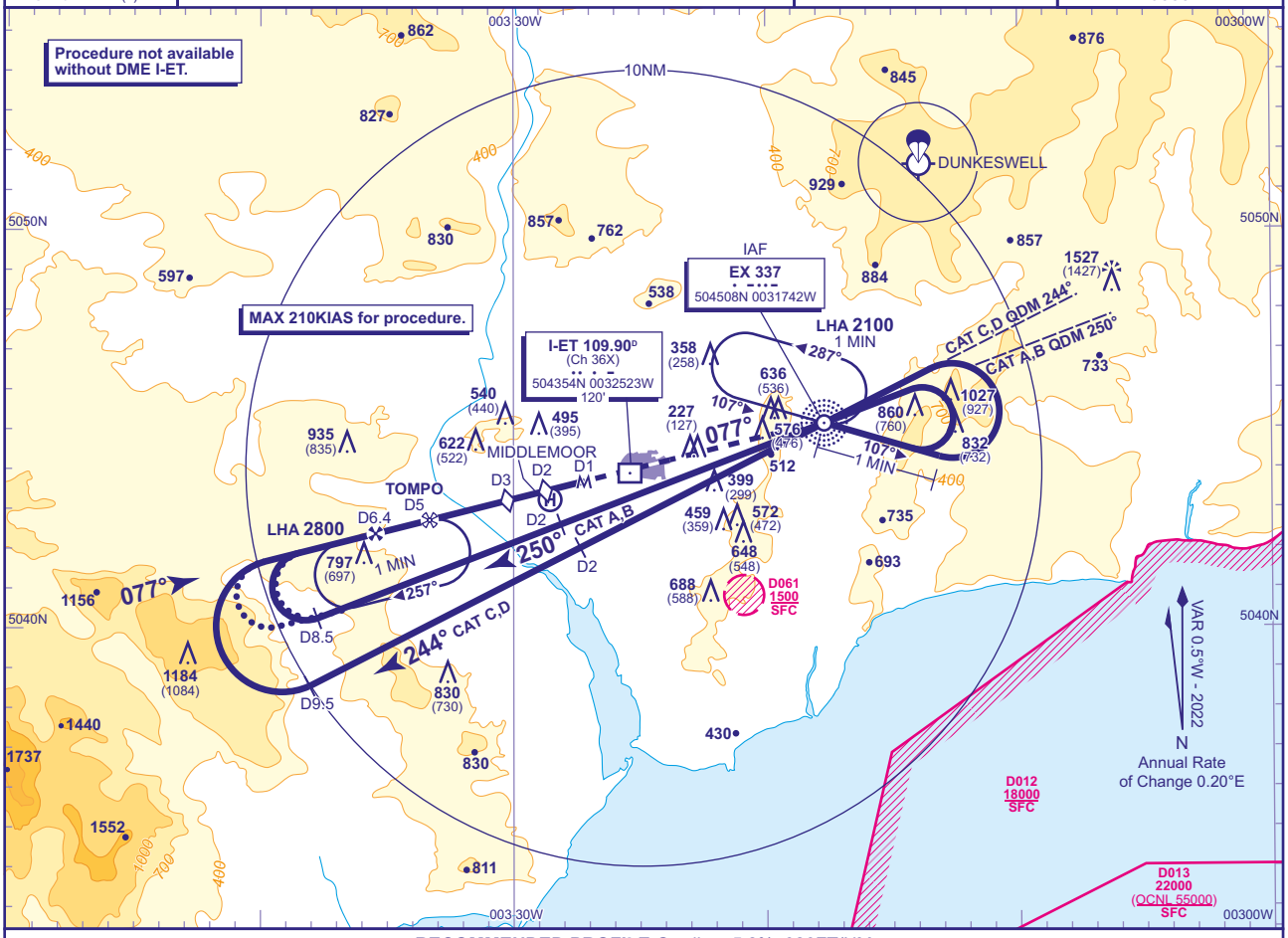
INSTRUMENT APPROACH CHART - ICAO

EXETER NDB(L)/DME RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EX

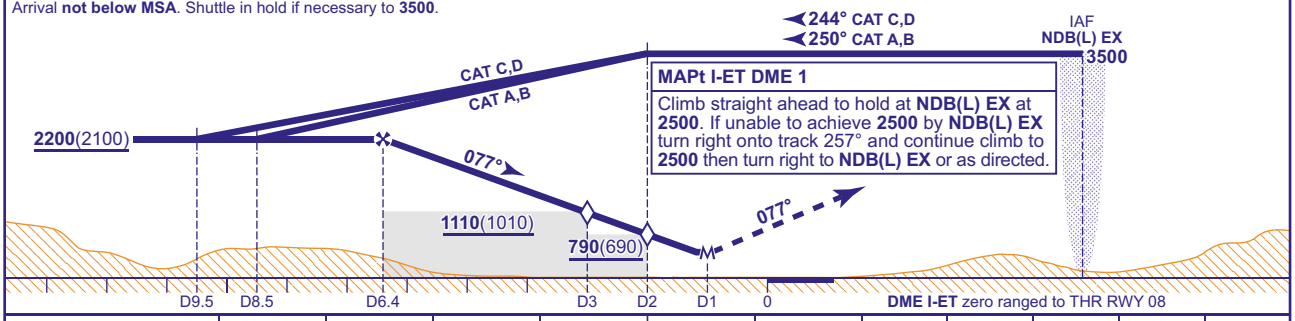
APP	128.980	EXETER APPROACH	AD ELEVATION	102	TRANSITION ALTITUDE 3000
TWR	119.805	EXETER TOWER	THR ELEVATION	100	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION 1522 AMSL (1422) (ABOVE THR)		
ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-ET	6	5	4	3 (SDF)	2 (SDF)
ALT(HGT)	2070(1970)	1750(1650)	1430(1330)	1110(1010)	790(690)

Arrival **not below MSA**. Shuttle in hold if necessary to **3500**.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	710(610)	710(610)	710(610)	710(610)
VM(C)OCA (OCH AAL)	Total Area	710(608)	900(798)	1090(988)	1090(988)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

ALTERNATIVE PROCEDURE (FROM TOMPO HOLD)
Shuttle as required in the TOMPO hold to **3000**. Extend the outbound leg of the hold descending to **not below 2200**(2100). At I-ET DME 8.5 (CAT A,B) or I-ET DME 9.5 (CAT C,D) commence right turn to establish on the FAT then continue as for basic procedure.

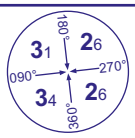
NOTE 1 Lowest altitude to commence procedure from hold after a missed approach is **2500**.
2 ATC will normally require aircraft to hold not lower than **3500** at NDB(L) EX or **3500** at TOMPO.
3 TOMPO hold not available without DME I-ET.

CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B.

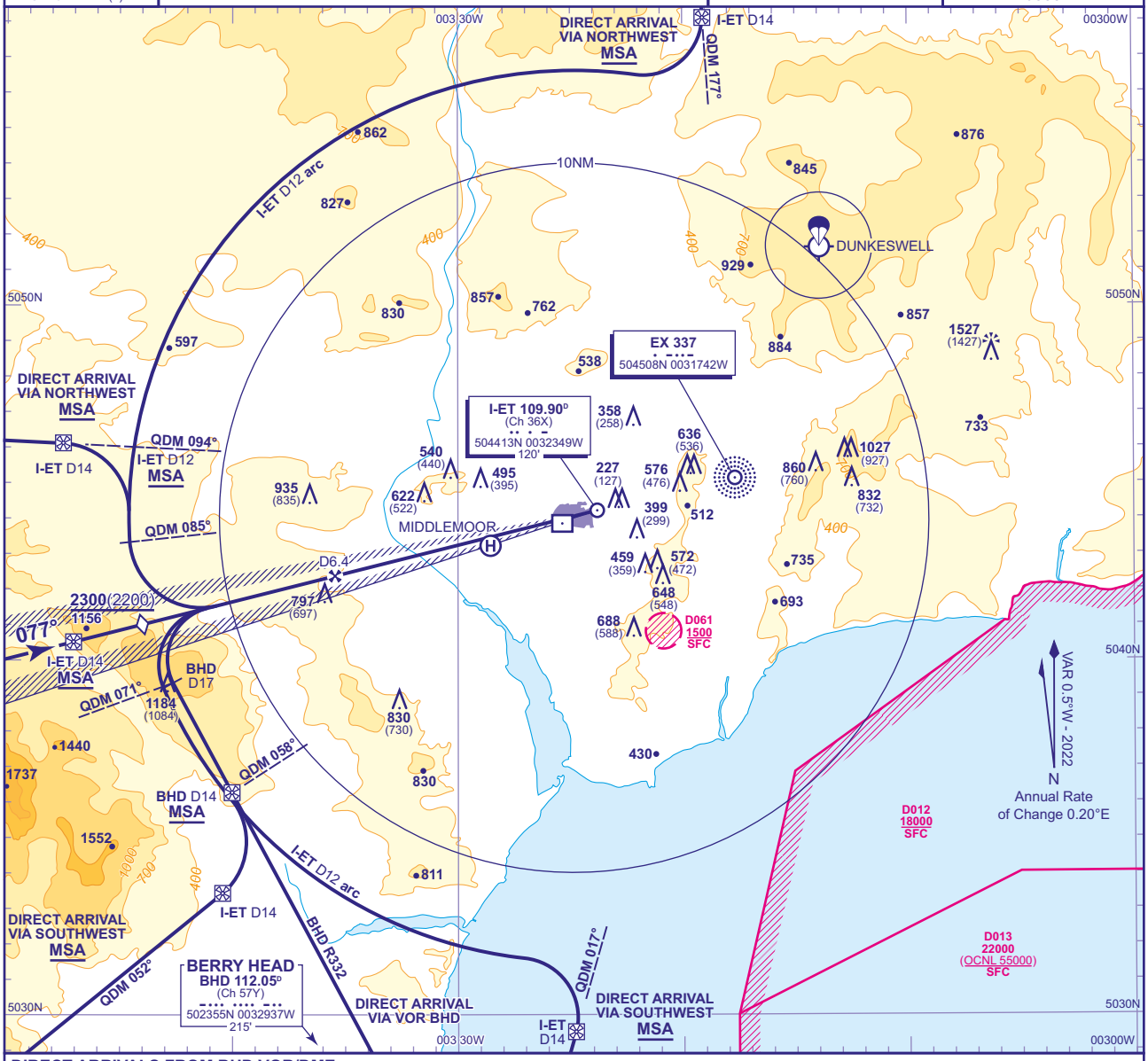
AERO INFO DATE 03 AUG 23
AD 2-EGTE-8-5

INSTRUMENT APPROACH CHART - ICAO

EXETER
Direct Arrivals
RWY 08
(ACFT CAT A,B,C,D)



APP	128.980	EXETER APPROACH	AD ELEVATION	102	
TWR	119.805	EXETER TOWER	THR ELEVATION	100	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION		
ATIS	119.330	EXETER INFORMATION	1527 AMSL (1427) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000



DIRECT ARRIVALS FROM BHD VOR/DME
Subject to prior approval from ATC. When clear of Controlled Airspace, from overhead BHD VOR/DME (IAF) **not below MSA**, fly outbound on BHD R332. At BHD DME 14 (NDB(L) EX QDM 058°) descend to **not below 2300**(2200). At lead QDM NDB(L) EX 071° (BHD DME 17) commence right turn to establish on LOC/FAT. When established continue as for basic procedure.

DIRECT ARRIVALS FROM WEST
Subject to prior approval from ATC. Establish on the extended FAT/LOC **not below MSA**. At IAF QDM NDB(L) EX 077° or LOC I-ET DME 14 commence descent to **not below 2300**(2200) and continue as for basic procedure.

DIRECT ARRIVALS FROM SOUTHWEST VIA I-ET DME 12 ARC
Subject to prior approval from ATC. Track towards NDB(L) EX between NDB(L) EX QDM 017° and 052° **not below MSA**. At I-ET DME 14 turn left to establish and follow the I-ET DME 12 arc clockwise. After passing QDM NDB(L) EX 058° descend to **not below 2300**(2200). At lead QDM NDB(L) EX 071° (BHD DME 17) commence right turn to establish on LOC/FAT. When established continue as for basic procedure.

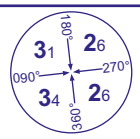
DIRECT ARRIVALS FROM NORTHWEST VIA I-ET DME 12 ARC
Subject to prior approval from ATC. Track towards NDB(L) EX between NDB(L) EX QDM 177° and 094° **not below MSA**. At IAF (I-ET DME 14) turn right to establish and follow the I-ET DME 12 arc anticlockwise. After passing QDM NDB(L) EX 094° descend to **not below 2300**(2200). At lead QDM NDB(L) EX 085° commence left turn to establish on LOC/FAT. When established continue as for basic procedure.

CHANGE (11/23): SDF HEIGHT.

AERO INFO DATE 03 AUG 23 AD 2-EGTE-8-6

INSTRUMENT APPROACH CHART - ICAO

EXETER
ILS/DME/NDB(L)
RWY 26
(ACFT CAT A,B,C,D)

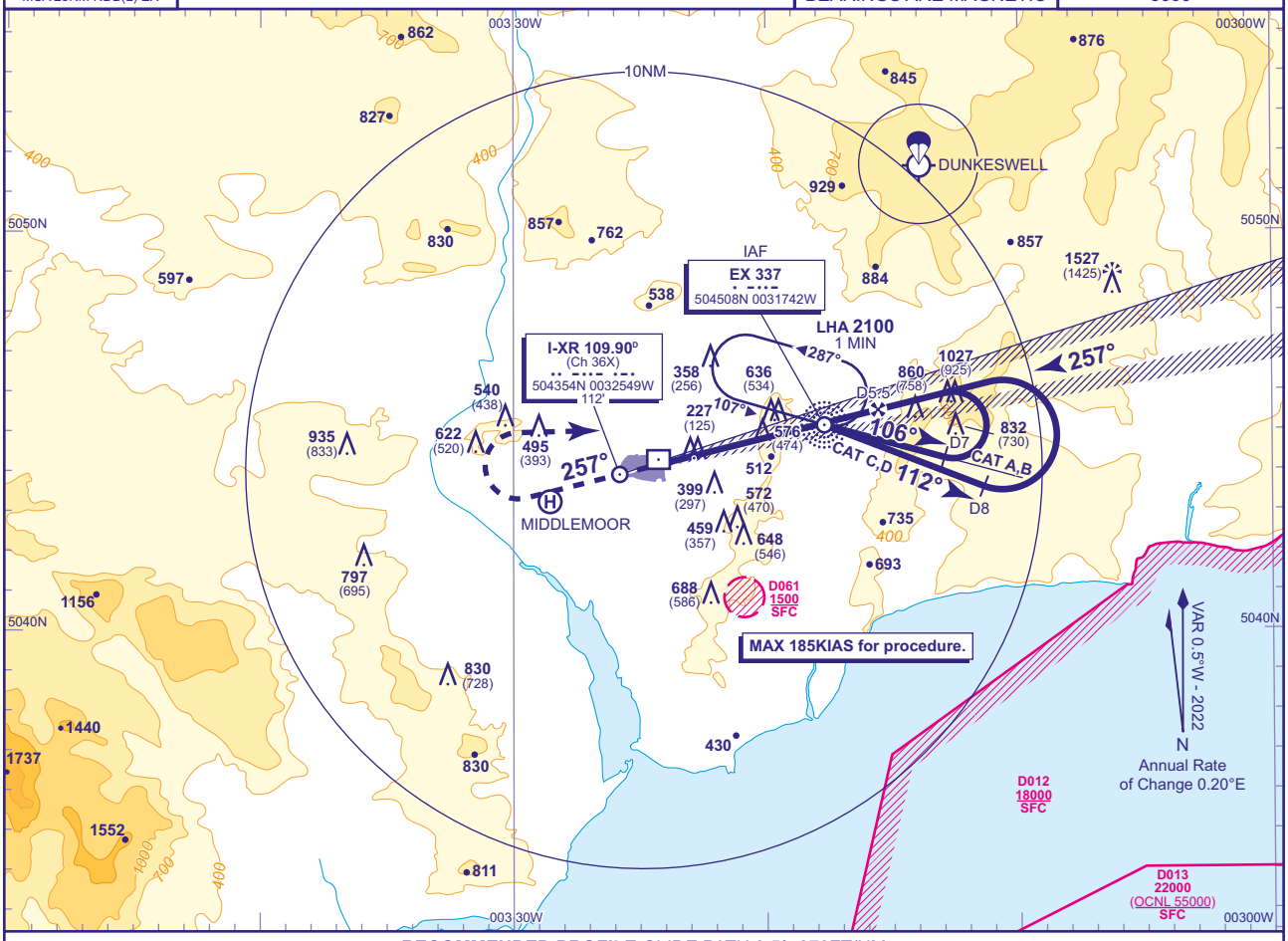


MSA 25NM NDB(L) EX

APP	128.980	EXETER APPROACH	
TWR	119.805	EXETER TOWER	
RAD	128.980, 123.580	EXETER RADAR	
ATIS	119.330	EXETER INFORMATION	

AD ELEVATION	**102**
THR ELEVATION	**102**
OBSTACLE ELEVATION	**1527 AMSL** (1425) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

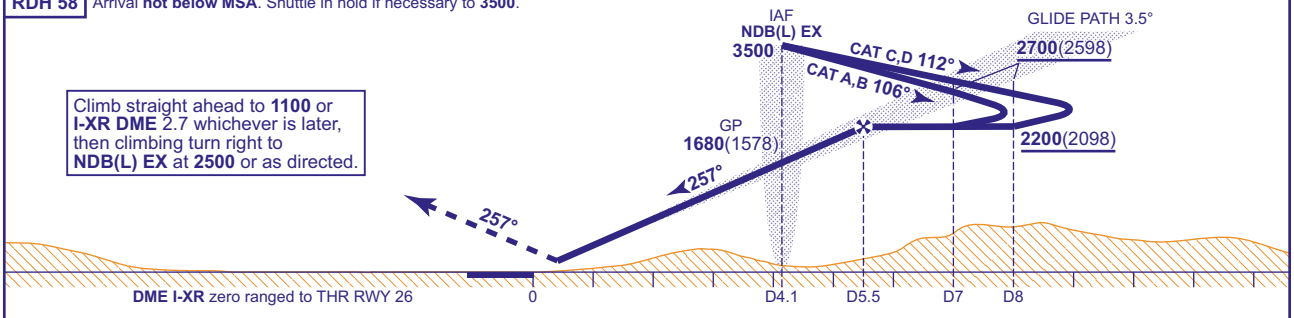


RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-XR	5	4	3	2	1
ALT(HGT)	**2020**(1918)	**1650**(1548)	**1280**(1178)	**900**(798)	**530**(428)

RDH 58 Arrival **not below MSA**. Shuttle in hold if necessary to **3500**.

Climb straight ahead to **1100** or **I-XR DME** 2.7 whichever is later, then climbing turn right to **NDB(L) EX** at **2500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**CAT I**	**259**(157)*	**266**(164)*	**274**(172)*	**283**(181)*
VM(C)OCA (OCH AAL)	**Total Area**	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	740	620	500

AIRCRAFT UNABLE TO RECEIVE DME I-XR
Fly outbound for 1.5 MIN (CAT A,B) or 1 MIN (CAT C,D) prior to commencing base turn. Radar Ranges will be provided at 5.5NM and 4NM inbound.

NOTE 1 Lowest altitude to commence procedure from hold after a missed approach is **2500**.
2 ATC will normally require aircraft to hold not lower than **3500**.
3 *Quality of the guidance does not permit use of the glide path below **300**(198).
4 Glide path is not to be used beyond 8NM from the THR.
5 LOC range is restricted to 18NM within 10° and 10NM within 35° of C/L.

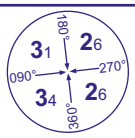
CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 03 AUG 23

AD 2-EGTE-8-7

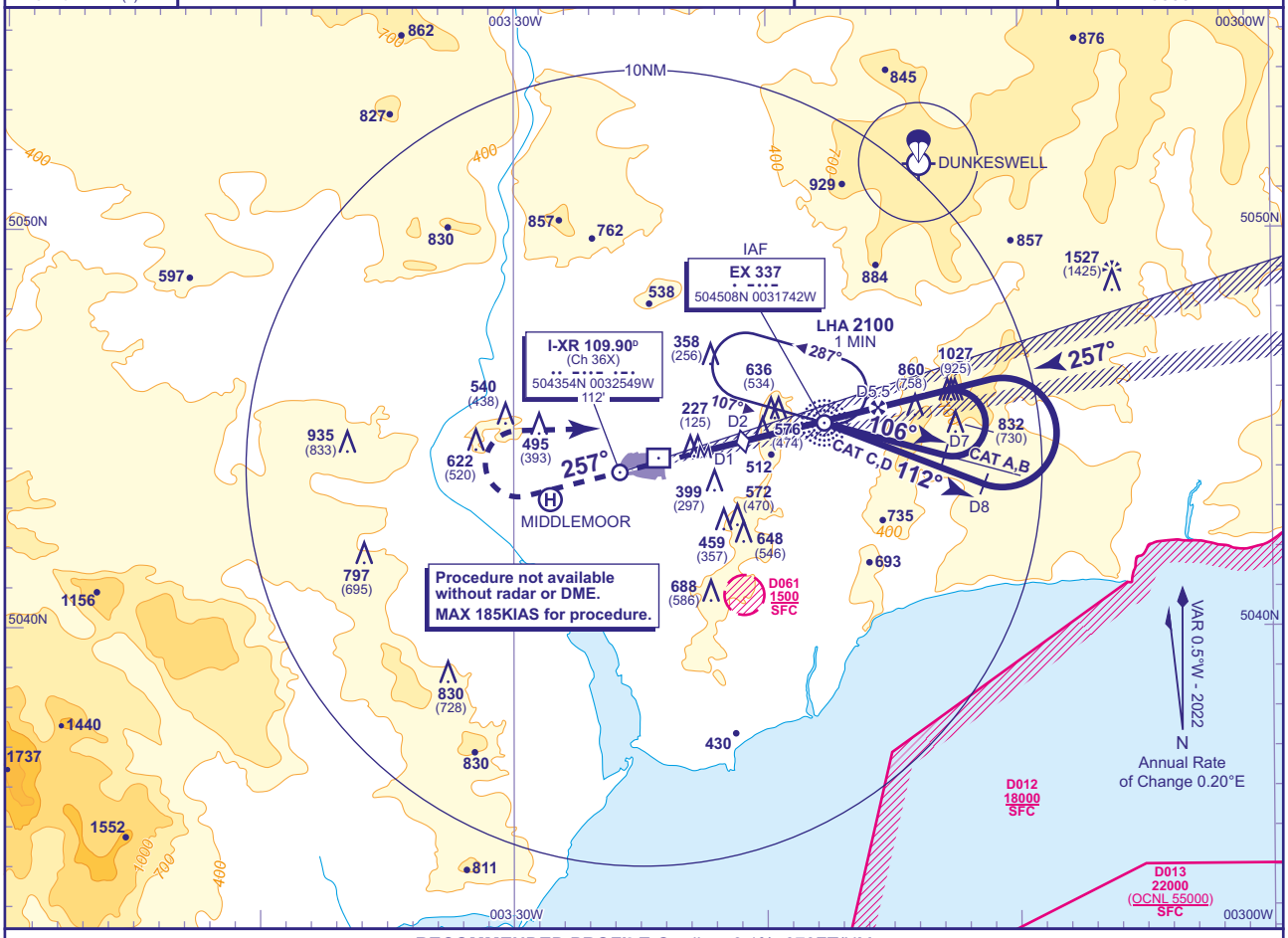
INSTRUMENT APPROACH CHART - ICAO

EXETER
LOC/DME/NDB(L)
RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EX

APP	128.980	EXETER APPROACH	AD ELEVATION	**102**	TRANSITION ALTITUDE **3000**
TWR	119.805	EXETER TOWER	THR ELEVATION	**102**	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION **1527 AMSL** (1425) (ABOVE THR)		
ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC		



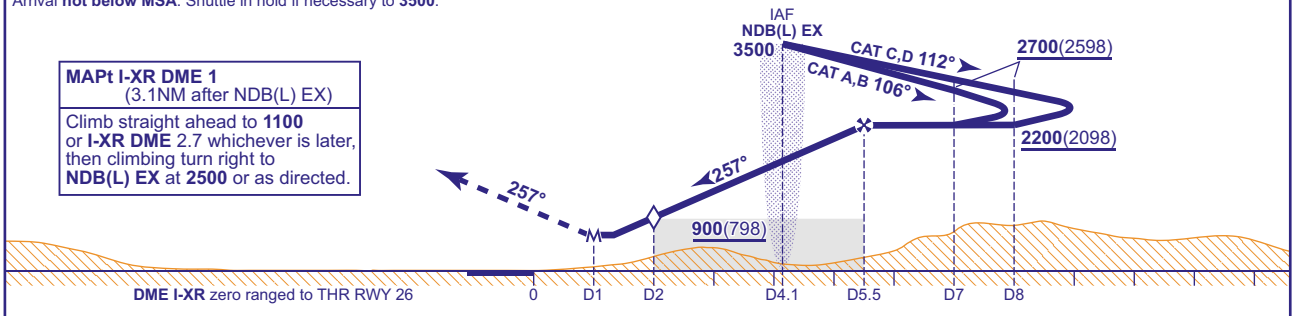
RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-XR	5	4.1 (EX NDB(L))	3	2 **(SDF)**
ALT(HGT)	**2020**(1918)	**1680**(1578)	**1280**(1178)	**900**(798)

Arrival **not below MSA**. Shuttle in hold if necessary to **3500**.

MAPt I-XR DME 1
(3.1NM after NDB(L) EX)

Climb straight ahead to **1100** or **I-XR DME** 2.7 whichever is later, then climbing turn right to **NDB(L) EX** at **2500** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	**Procedure**	**630**(528)	**630**(528)	**630**(528)	**630**(528)		FT/MIN	990	870	740	620	500
VM(C)OCA (OCH AAL)	**Total Area**	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)	**NDB(L) to MAPt (3.1NM)**	MIN:SEC	1:09	1:19	1:33	1:51	2:19

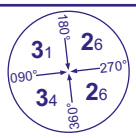
NOTE 1 Lowest altitude to commence procedure from hold after a missed approach is **2500**.
2 ATC will normally require aircraft to hold not lower than **3500**.
3 LOC range is restricted to 18NM within 10° and 10NM within 35° of C/L.

CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 04 AUG 23

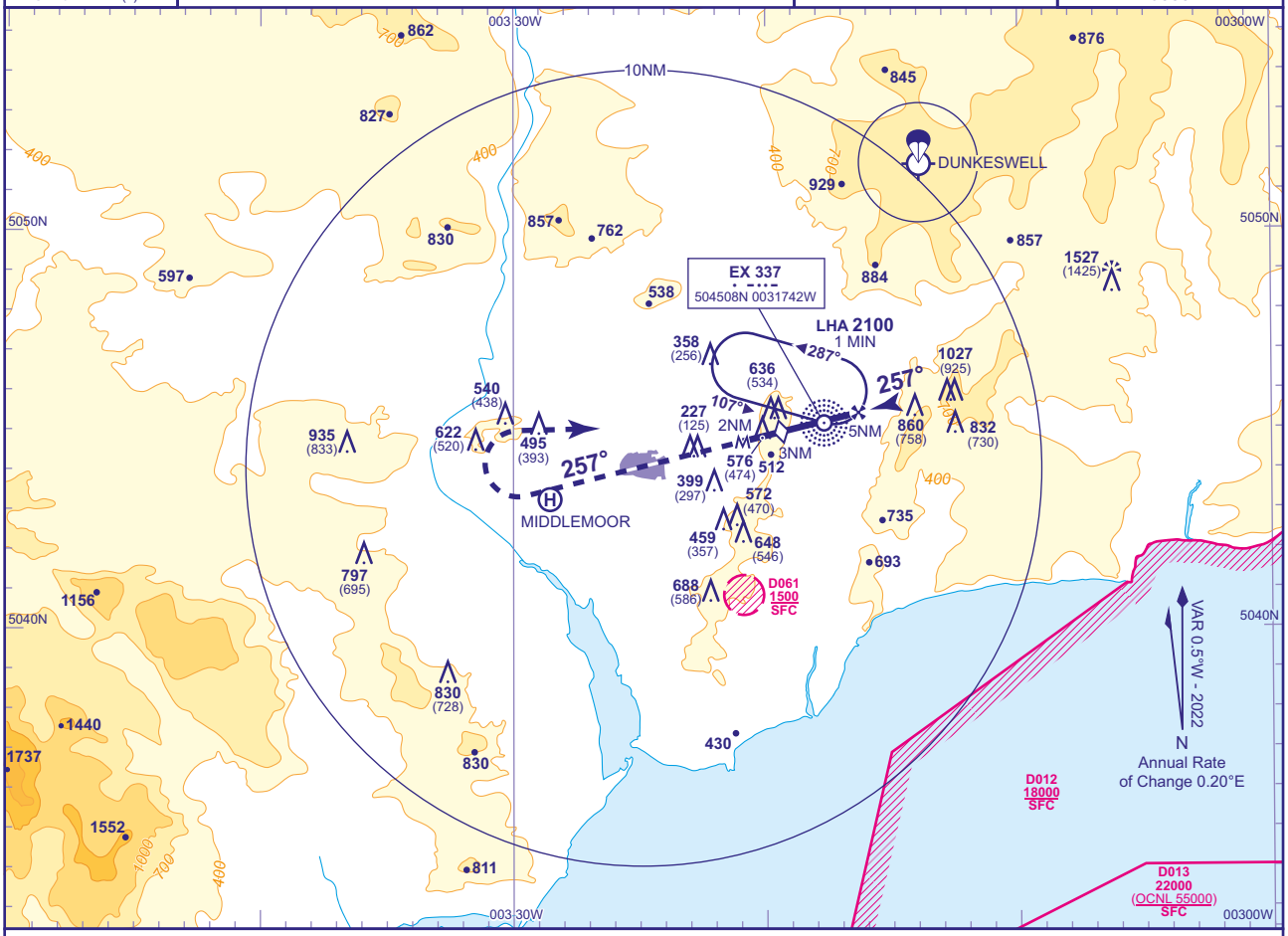
INSTRUMENT APPROACH CHART - ICAO

EXETER
SRA RTR 2NM
RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EX

APP	128.980	EXETER APPROACH	AD ELEVATION	102	TRANSITION ALTITUDE 3000
TWR	119.805	EXETER TOWER	THR ELEVATION	102	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION 1527 AMSL (1425) (ABOVE THR)		
ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC		



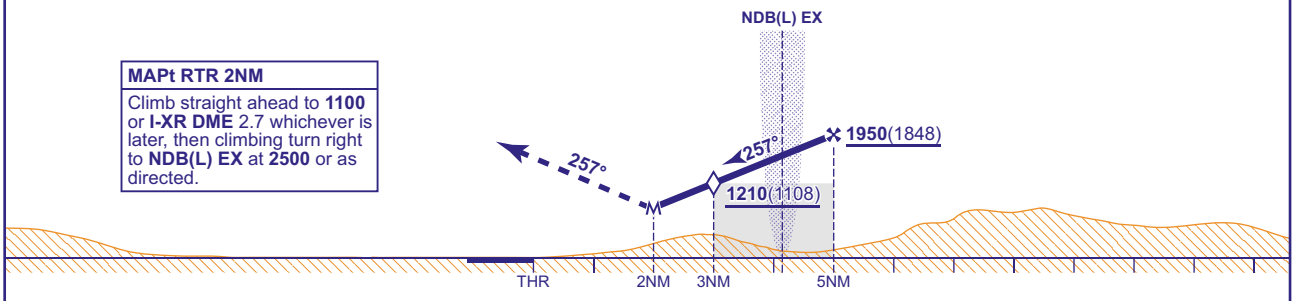
RADAR ADVISORY HEIGHTS Gradient 6.1%, 370FT/NM

NM	5.0	4.0	3.0 **(SDF)**
ALT(HGT)	**1950**(1848)	**1580**(1478)	**1210**(1108)

Initial and intermediate approach as directed by radar.

MAPt RTR 2NM

Climb straight ahead to **1100** or **I-XR DME** 2.7 whichever is later, then climbing turn right to **NDB(L) EX** at **2500** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	**Procedure**	**890**(788)	**890**(788)	**890**(788)	**890**(788)		**FT/MIN**	990	860	740	620	490
VM(C)OCA (OCH AAL)	**Total Area**	**890**(788)	**900**(798)	**1090**(988)	**1090**(988)							

NOTE ATC will normally require aircraft to hold not lower than **3500**.

CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B.

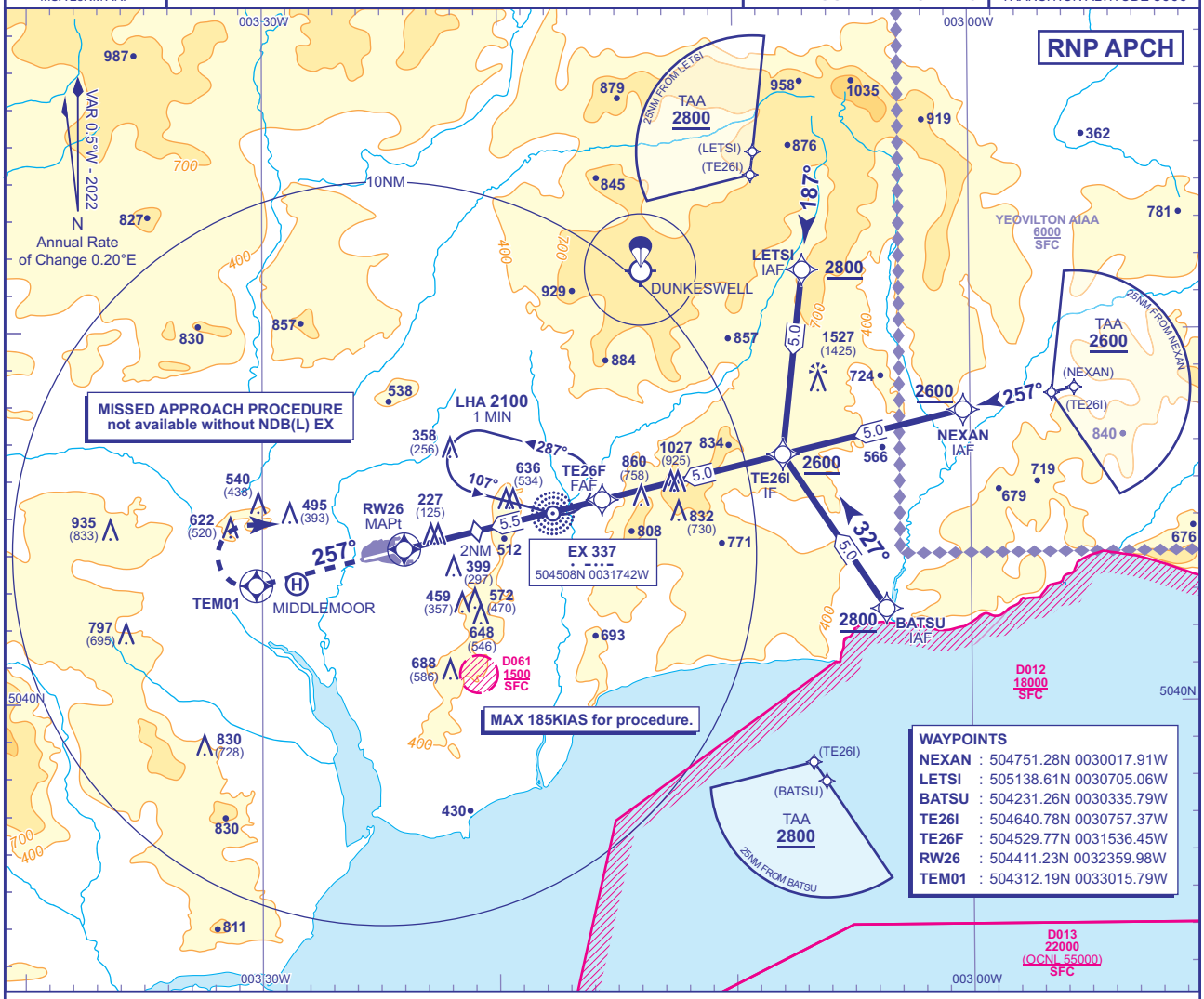
AERO INFO DATE 03 AUG 23

AD 2-EGTE-8-9

INSTRUMENT APPROACH CHART - ICAO

EXETER
RNP
RWY 26
(ACFT CAT A,B,C,D)

3₄ MSA 25NM ARP	APP	128.980	EXETER APPROACH	AD ELEVATION	**102**
	TWR	119.805	EXETER TOWER	THR ELEVATION	**102**
	RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION **1527 AMSL** (1425) (ABOVE THR)	MIN TEMP **-15°C**
	ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE **3000**

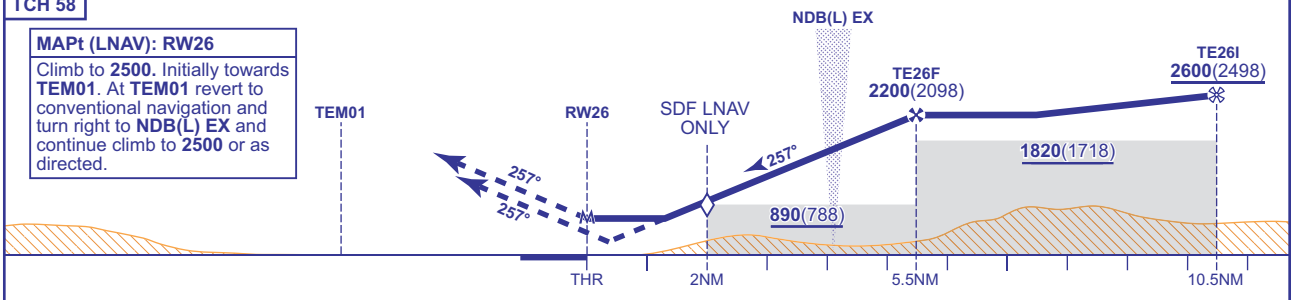


RECOMMENDED PROFILE VNAV - Vertical path Angle 3.5° (LNAV 6.12%), 372FT/NM

NM to RW26	5	4	3	2(SDF)	1
ALT(HGT)	**2020**(1918)	**1650**(1548)	**1280**(1178)	**900**(798)	**530**(428)

TCH 58

MAPt (LNAV): RW26
Climb to **2500.** Initially towards **TEM01**. At **TEM01** revert to conventional navigation and turn right to **NDB(L) EX** and continue climb to **2500** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**570**(468)	**570**(468)	**570**(468)	**570**(468)		FT/MIN	990	870	740	620	500
	LNAV	**630**(528)	**630**(528)	**630**(528)	**630**(528)							
VM(C)OCA (OCH AAL)	Total Area	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)							

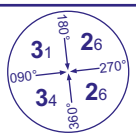
NOTE 1 Clearance for Initial Approach via BATSU subject to Danger Area activity.

CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B. TE26I/MOCA HEIGHT INCREASE ON PROFILE.

AERO INFO DATE 14 AUG 23

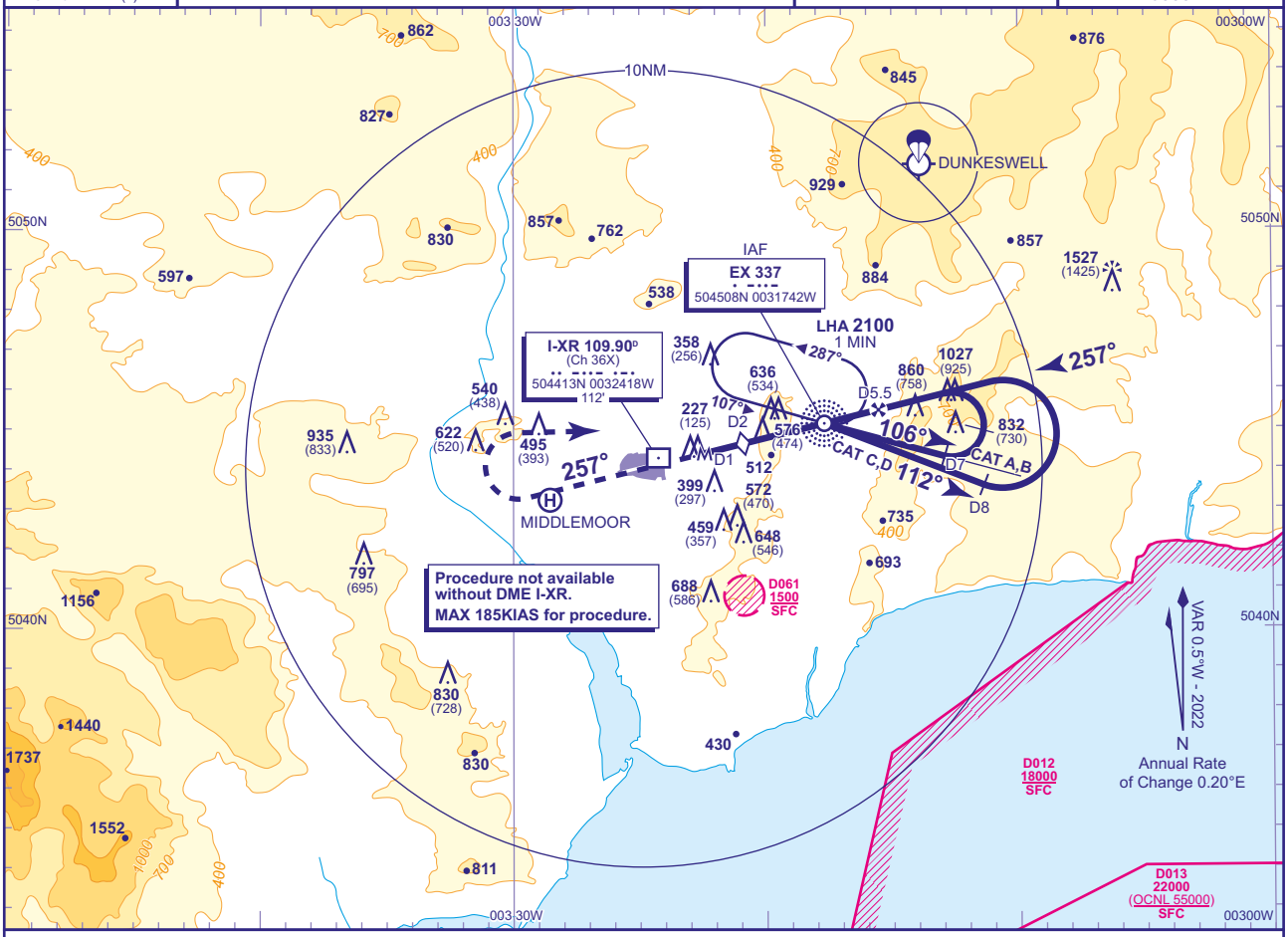
INSTRUMENT APPROACH CHART - ICAO

EXETER
NDB(L)/DME
RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EX

APP	128.980	EXETER APPROACH	AD ELEVATION	102	TRANSITION ALTITUDE 3000
TWR	119.805	EXETER TOWER	THR ELEVATION	102	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION 1527 AMSL (1425) (ABOVE THR)		
ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC		



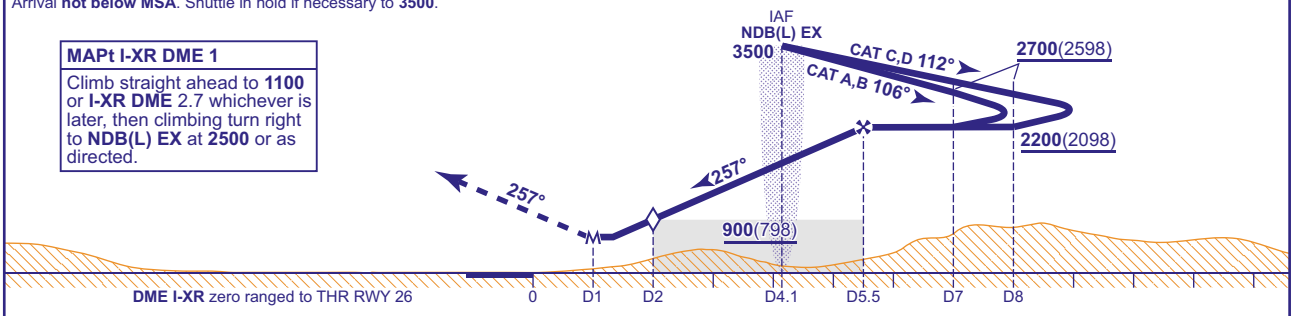
RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-XR	5	4	3	2 **(SDF)**
ALT(HGT)	**2010**(1908)	**1640**(1538)	**1270**(1168)	**900**(798)

Arrival **not below MSA**. Shuttle in hold if necessary to **3500**.

MAPt I-XR DME 1

Climb straight ahead to **1100** or **I-XR DME** 2.7 whichever is later, then climbing turn right to **NDB(L) EX** at **2500** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	**WITH DME**	**680**(578)	**680**(578)	**680**(578)	**680**(578)		FT/MIN	990	870	740	620	490
VM(C)OCA (OCH AAL)	**Total Area**	**700**(598)	**900**(798)	**1090**(988)	**1090**(988)	NDB(L) to MAPt (3.1NM)	MIN:SEC	1:09	1:19	1:33	1:51	2:19

AIRCRAFT UNABLE TO RECEIVE DME I-XR
See AD 2-EGTE 8-12.

NOTE 1 FAT offset 0.4° from RWY 26 C/L.
2 Lowest altitude to commence procedure from hold after a missed approach is **2500**.
3 ATC will normally require aircraft to hold not lower than **3500**.

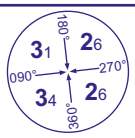
CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 04 AUG 23

AD 2-EGTE-8-11

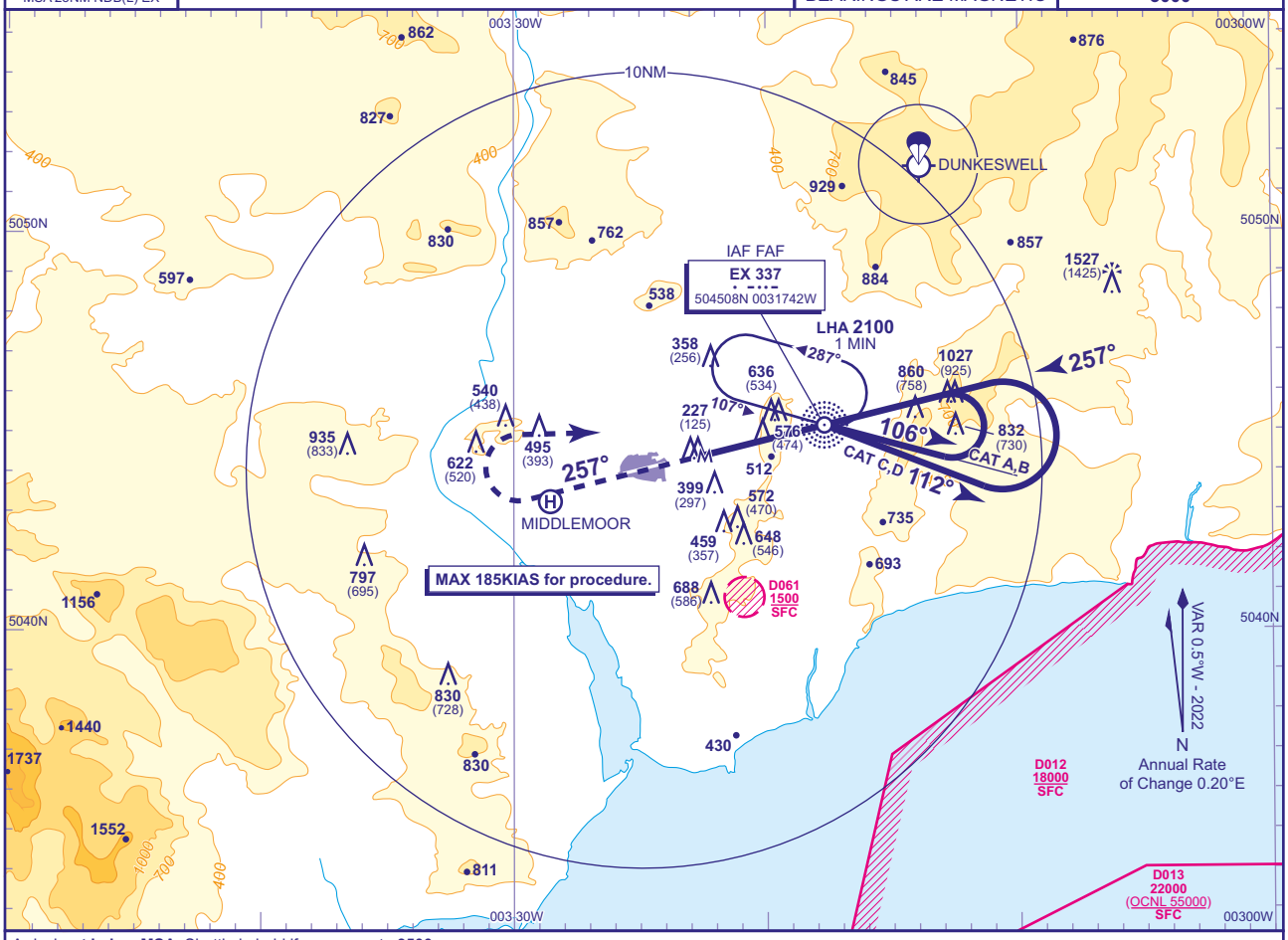
INSTRUMENT APPROACH CHART - ICAO

EXETER NDB(L) RWY 26
(ACFT CAT A,B,C,D)

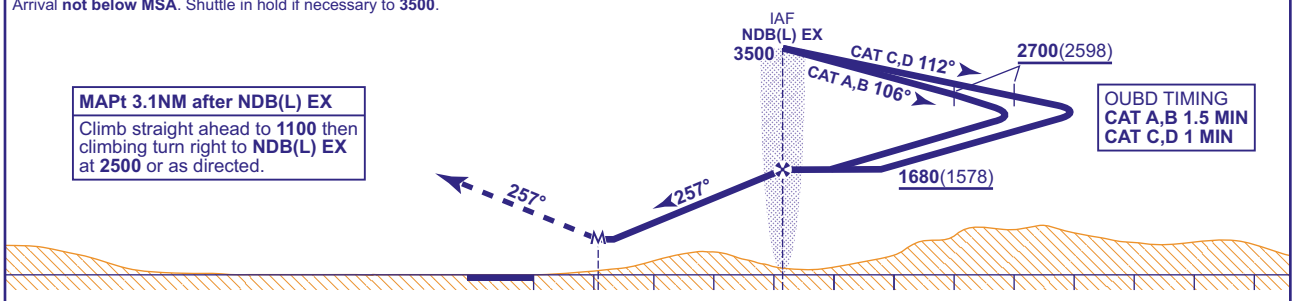


MSA 25NM NDB(L) EX

APP	128.980	EXETER APPROACH	AD ELEVATION	**102**	TRANSITION ALTITUDE **3000**
TWR	119.805	EXETER TOWER	THR ELEVATION	**102**	
RAD	128.980, 123.580	EXETER RADAR	OBSTACLE ELEVATION **1527 AMSL** (1425) (ABOVE THR)		
ATIS	119.330	EXETER INFORMATION	BEARINGS ARE MAGNETIC		



Arrival **not below MSA**. Shuttle in hold if necessary to **3500**.



MAPt 3.1NM after NDB(L) EX
Climb straight ahead to **1100** then climbing turn right to **NDB(L) EX** at **2500** or as directed.

OUBD TIMING
CAT A,B 1.5 MIN
CAT C,D 1 MIN

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	NO DME	**890**(788)	**890**(788)	**890**(788)	**890**(788)		FT/MIN	990	870	740	620	500
VM(C)OCA (OCH AAL)	Total Area	**890**(788)	**900**(798)	**1090**(988)	**1090**(988)	NDB(L) to MAPt (3.1NM)	MIN:SEC	1:09	1:19	1:33	1:51	2:19

NOTE 1 FAT offset 0.4° from RWY 26 C/L.
2 Lowest altitude to commence procedure from hold after a missed approach is **2500**.
3 ATC will normally require aircraft to hold not lower than **3500**.

CHANGE (11/23): VM(C)OCA(OCH AAL) CAT B.

AERO INFO DATE 03 AUG 23

AD 2-EGTE-8-12

Instrument Approach Procedure Coding Tables

Exeter RNP RWY 08 - Instrument Approach Procedure via SISRI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08L	001	IF	SISRI	N	-	-	3400	210	504600.11N 0034503.81W	IAF
R08L	002	TF	TE08I	N	166° (165.86°)	LEFT	2300	-	504109.51N 0034308.54W	IF / 11.4NM
R08L	003	TF	TE08F	N	076° (075.88°)	-	2200	-	504222.36N 0033530.88W	FAF / 6.4NM
R08L	004	TF	RW08	Y	077° (075.98°)	-	-	-	504355.45N 0032540.83W	MAPt
R08L	005	CA	-	-	077° (075.98°)	-	1000	210	-	At 1000' revert to conventional navigation

Exeter RNP RWY 08 - Instrument Approach Procedure via EBOBA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08C	001	IF	EBOBA	N	-	-	3400	210	504025.56N 0034742.94W	IAF
R08C	002	TF	TE08I	N	076° (075.82°)	-	2300	-	504109.51N 0034308.54W	IF / 11.4NM
R08C	003	TF	TE08F	N	076° (075.88°)	-	2200	-	504222.36N 0033530.88W	FAF / 6.4NM
R08C	004	TF	RW08	Y	077° (075.98°)	-	-	-	504355.45N 0032540.83W	MAPt
R08C	005	CA	-	-	077° (075.98°)	-	1000	210	-	At 1000' revert to conventional navigation

Exeter RNP RWY 08 - Instrument Approach Procedure via OTBOT

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08R	001	IF	OTBOT	N	-	-	3400	210	503618.88N 0034113.66W	IAF
R08R	002	TF	TE08I	N	346° (345.90°)	RIGHT	2300	-	504109.51N 0034308.54W	IF / 11.4NM
R08R	003	TF	TE08F	N	076° (075.88°)	-	2200	-	504222.36N 0033530.88W	FAF / 6.4NM
R08R	004	TF	RW08	Y	077° (075.98°)	-	-	-	504355.45N 0032540.83W	MAPt
R08R	005	CA	-	-	077° (075.98°)	-	1000	210	-	At 1000' revert to conventional navigation

CHANGE (7/21): MAG VAR. MAG TRACKS.
AERO INFO DATE 30 APR 21

Instrument Approach Procedure Coding Tables

Exeter RNP RWY 26 - Instrument Approach Procedure via LETSI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26R	001	IF	LETSI	N	-	-	2800	185	505138.61N 0030705.06W	IAF
R26R	002	TF	TE26I	N	187° (186.35°)	RIGHT	2600	185	504640.78N 0030757.37W	IF / 10.5NM
R26R	003	TF	TE26F	N	257° (256.34°)	-	2200	185	504529.77N 0031536.45W	FAF / 5.5NM
R26R	004	TF	RW26	Y	257° (256.24°)	-	-	185	504411.23N 0032359.98W	MAPt
R26R	005	TF	TEM01	Y	257° (256.13°)	-	-	185	504312.19N 0033015.79W	At TEM01 revert to conventional navigation

Exeter RNP RWY 26 - Instrument Approach Procedure via NEXAN

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26C	001	IF	NEXAN	N	-	-	2600	185	504751.28N 0030017.91W	IAF
R26C	002	TF	TE26I	N	257° (256.44°)	-	2600	185	504640.78N 0030757.37W	IF / 10.5NM
R26C	003	TF	TE26F	N	257° (256.34°)	-	2200	185	504529.77N 0031536.45W	FAF / 5.5NM
R26C	004	TF	RW26	Y	257° (256.24°)	-	-	185	504411.23N 0032359.98W	MAPt
R26C	005	TF	TEM01	Y	257° (256.13°)	-	-	185	504312.19N 0033015.79W	At TEM01 revert to conventional navigation

Exeter RNP RWY 26 - Instrument Approach Procedure via BATSU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26L	001	IF	BATSU	N	-	-	2800	185	504231.26N 0030335.79W	IAF
R26L	002	TF	TE26I	N	327° (326.35°)	LEFT	2600	185	504640.78N 0030757.37W	IF / 10.5NM
R26L	003	TF	TE26F	N	257° (256.34°)	-	2200	185	504529.77N 0031536.45W	FAF / 5.5NM
R26L	004	TF	RW26	Y	257° (256.24°)	-	-	185	504411.23N 0032359.98W	MAPt
R26L	005	TF	TEM01	Y	257° (256.13°)	-	-	185	504312.19N 0033015.79W	At TEM01 revert to conventional navigation

CHANGE (11/23): TE26I LEVEL CONSTRAINT.
AERO INFO DATE 03 AUG 23

EGEF — FAIR ISLE

EGEF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEF — FAIR ISLE

EGEF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 593205N Long: 0013743W
2	Direction and distance from city	On Fair Isle.
3	Elevation / Reference temperature / Mean Low Temperature	237 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	161 FT
5	Magnetic Variation / Annual Change	0.07°E (2027) / 0.22°E
6	AD Administration Address Telephone Telefax	THE NATIONAL TRUST FOR SCOTLAND. Fair Isle, Shetland, ZE2 9TU 01595-760224 01595-760252
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGEF AD 2.3 OPERATIONAL HOURS

1	AD Administration	Daylight only subject to PPR .
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	Daylight hours only, subject to PPR, and as required by Emergency Service Flights.
8	Fuelling	Not applicable.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGEF AD 2.4 HANDLING SERVICES AND FACILITIES

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EGEF AD 2.5 PASSENGER FACILITIES

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EGEF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission.
2	Rescue equipment	1 x Mercedes ATEGO 1080 4X4. 1200 LT water with foam capability.
3	Capability for removal of disabled aircraft	Contact Tel: 07545-822376 (Aerodrome Manager), or 07799-094175 (Deputy Aerodrome Manager).
4	Remarks	

EGEF AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations. No snow clearing facilities available. During winter months pilots are advised to contact the Aerodrome Manager for the latest runway conditions. Tel: 01595-760224, 07545-822376 (Mobile), or his deputy Tel: 01595-760314.

EGEF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGEF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 593203.07N 0013742.05W.

EGEF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEF1144) 06/APPROACH 24/ TAKE-OFF	CONTROL BG AERIAL	593202.28N 0013742.97W	252 FT		No	
(EGEF1140) 06/APPROACH 24/ TAKE-OFF	WALL	593156.65N 0013819.81W	271 FT		No	
(EGEF1116) 06/APPROACH 24/ TAKE-OFF	BUILDING RUIN	593154.63N 0013810.40W	252 FT		No	
(EGEF1123) 06/APPROACH 24/ TAKE-OFF	BLDG TANK	593153.95N 0013750.79W	251 FT		No	
(EGEF1118) 06/APPROACH 24/ TAKE-OFF	BUILDING	593152.52N 0013802.32W	251 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEF1110)	BUILDING	593246.38N 0013747.85W	652 FT		No	
(EGEF1111)	BUILDING	593245.73N 0013753.39W	675 FT		No	
(EGEF1112)	BUILDING RUIN	593245.08N 0013755.20W	697 FT		No	
(EGEF1046)	TERRAIN	593243.74N 0013757.51W	691 FT		No	
(EGEF1045)	TERRAIN	593239.58N 0013801.32W	624 FT		No	
(EGEF1109)	MAST	593238.95N 0013739.33W	663 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEF1114)	BUILDING RUIN	593232.77N 0013803.86W	530 FT		No	
(EGEF1028)	TERRAIN	593157.18N 0013837.42W	379 FT		No	
(EGEF1027)	TERRAIN	593155.22N 0013834.28W	381 FT		No	
(EGEF1026)	TERRAIN	593153.12N 0013834.34W	363 FT		No	
(EGEF1025)	TERRAIN	593150.59N 0013836.72W	355 FT		No	

EGEF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGEF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
06	056.72°	540 x 22 M	RWY surface: Gravel	593200.98N 0013755.62W 161.0 FT	THR 227.2 FT	
24	236.73°	540 x 22 M	RWY surface: Gravel	593209.06N 0013729.66W 160.9 FT	THR 221.4 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 06 From Runway 06 threshold (eye level) the visible horizon of the runway is at a distance of approximately 215 M. Runway 24 threshold becomes visible after a further 25 M (240 M from Runway 06 threshold).
						RWY 24 From Runway 24 threshold (eye level) the visible horizon of the runway is at a distance of approximately 245 M. Runway 06 threshold becomes visible after a further 25 M (270 M from Runway 24 threshold).

EGEF AD 2.13 DECLARED DISTANCES

Runway designator	**TORA**	**TODA**	**ASDA**	**LDA**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
06	478 M	478 M	478 M	478 M	
24	478 M	478 M	478 M	478 M	

EGEF AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGEF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGEF AD 2.16 HELICOPTER LANDING AREA

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EGEF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGEF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	FAIR ISLE RADIO	118.030 A/G frequency.			Daylight hours only	Subject to PPR.

EGEF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGEF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

Not applicable

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Turbulance can be expected with a westerly wind.
b) Bird hazard is assessed as seasonally high. The main hazard occurs during the months of May through August when nesting Terns colonise the vicinity of the aerodrome. During this period the highest area of risk is to aircraft on final approach to Runway 06.
c) Ground falls away very steeply approximately 30 M beyond each runway end. Care should be taken to anticipate sudden wind changes which might result in a touch-down short of the thresholds.
d) The runway surface is prone to moss growth and may be slippery in patches, particularly when wet.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGEF AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGEF AD 2.22 FLIGHT PROCEDURES

a) Circuit directions: Runway 06 - RH; Runway 24 - LH.

EGEF AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGEF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEF-2-1

EGEF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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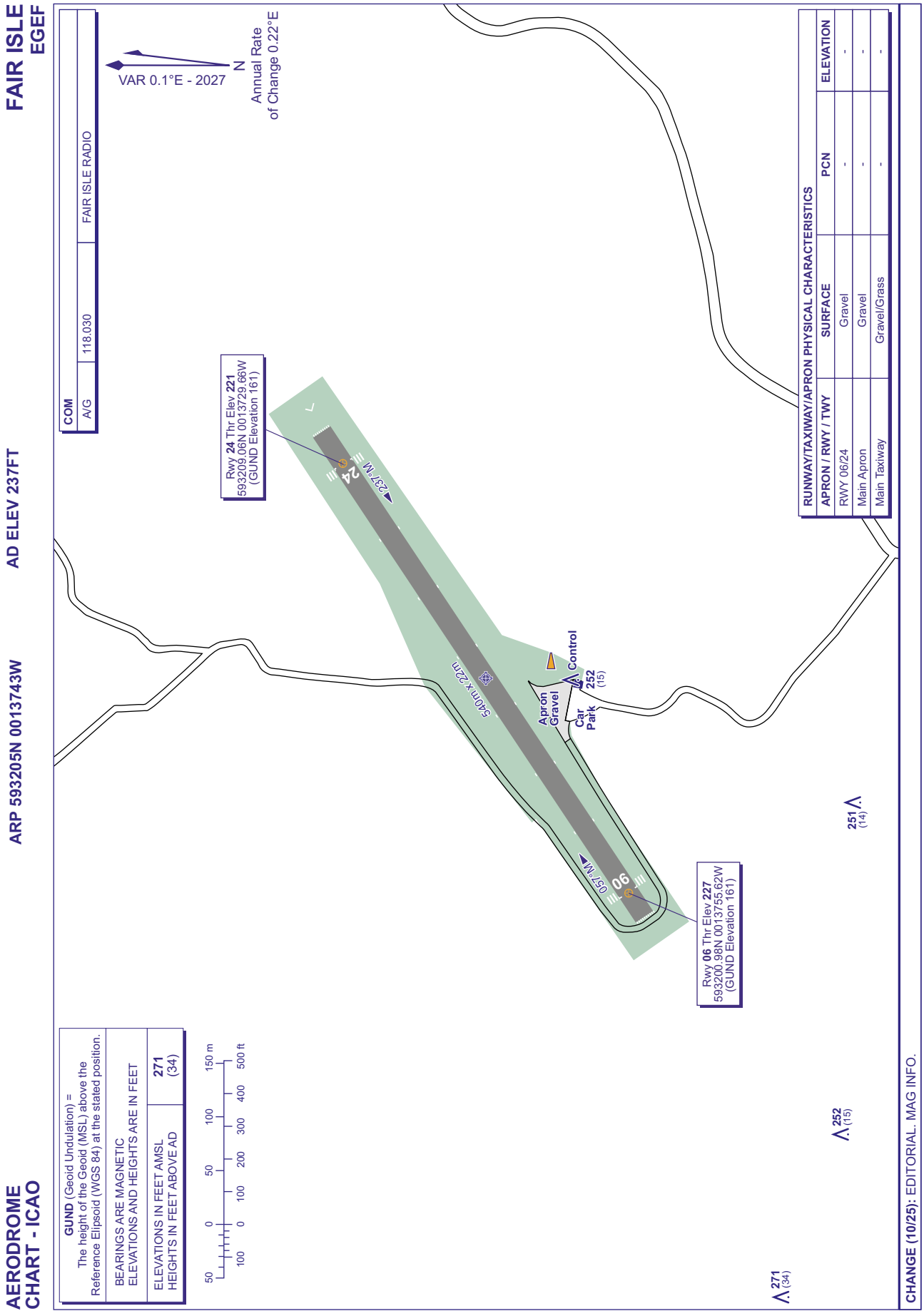
FAIR ISLE
EGEF
AERODROME
CHART - ICAO
ARP 593205N 0013743W
AD ELEV 237FT
COM
A/G
118.030
FAIR ISLE RADIO
VAR 0.1°E - 2027
N
Annual Rate
of Change 0.22°E
Rwy 24 Thr Elev 221
593209.06N 0013729.66W
(GUND Elevation 161)
Rwy 06 Thr Elev 227
593200.98N 0013755.62W
(GUND Elevation 161)
540m x 22m
057°M
237°M
24
06
Apron
Gravel
Car
Park
Control
252
(15)
251
(14)
271
(34)
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
PCN
ELEVATION
RWY 06/24
Gravel
-
-
Main Apron
Gravel
-
-
Main Taxiway
Gravel/Grass
-
-
GUND (Geoid Undulation) =
The height of the Geoid (MSL) above the
Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
271
(34)
50 0 50 100 150 m
100 0 100 200 300 400 500 ft
CHANGE (10/25): EDITORIAL. MAG INFO.
AERO INFO DATE 21 JUL 25
AD 2-EGEF-2-1

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EGTF — FAIROAKS

EGTF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTF — FAIROAKS

EGTF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 512053N Long: 0003331W Centre of Runway
2	Direction and distance from city	2 NM N of Woking.
3	Elevation / Reference temperature / Mean Low Temperature	80 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	150 FT
5	Magnetic Variation / Annual Change	1.20°E (2027) / 0.17°E
6	AD Administration Address Telephone Telefax	FAIROAKS OPERATIONS LTD Fairoaks Airport, Chobham, Woking, Surrey, GU24 8HX. 01276-857700 (Administration) 01276-857300 (A/G Station) 01276-856898
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGTF AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 0800-1800 (0700-1700); Sun and PH 0900-1800 (0800-1700).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours.
8	Fuelling	Mon-Sat 0815-1740 (0715-1640); Sun and PH 0915-1740 (0815-1640) and by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	All circuit traffic PPR by telephone 01276-857300

EGTF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AL48, AVGAS 100LL W80/100, Straight 80/100, 15W/50
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	
7	Remarks	

EGTF AD 2.5 PASSENGER FACILITIES

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EGTF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited facilities for the removal of disabled aircraft.
4	Remarks	

EGTF AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGTF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A: 10 M Surface: Concrete and asphalt Taxiway B: 11 M Surface: Concrete and asphalt Taxiway C: 10 M Surface: Concrete
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGTF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Taxiway marking aid(s): Taxiway centre-line and holding point markings. Green reflective taxiway centre-line markers on Taxiway B. Blue reflective taxiway edge markers on Taxiways B and C.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI 512055.37N 0003336.20W (LGTD).

EGTF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTF1326) 06/TAKE-OFF	TREE	512113.28N 0003249.15W	177 FT	80 FT	No	
(EGTF1347) 24/APPROACH 06/ TAKE-OFF	TREE	512111.97N 0003237.57W	178 FT	85 FT	No	
(EGTF1310) 24/APPROACH 06/ TAKE-OFF	TREE	512109.73N 0003254.43W	143 FT	59 FT	No	
(EGTF1279) 24/APPROACH 06/ TAKE-OFF	TREE	512105.85N 0003301.32W	132 FT	53 FT	No	
(EGTF1273) 24/APPROACH 06/ TAKE-OFF	TREE	512105.51N 0003304.65W	121 FT	42 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTF1081) 06/APPROACH 24/ TAKE-OFF	TREE	512045.78N 0003353.54W	115 FT	44 FT	No	
(EGTF1092) 06/APPROACH	TREE	512045.76N 0003352.12W	100 FT	29 FT	No	
(EGTF1083) 06/APPROACH 24/ TAKE-OFF	TREE	512045.64N 0003353.41W	107 FT	37 FT	No	
(EGTF1091) 24/TAKE-OFF	TREE	512044.15N 0003352.20W	88 FT	19 FT	No	
(EGTF1070) 24/TAKE-OFF	TREE	512044.02N 0003356.74W	94 FT	22 FT	No	
(EGTF1106) 06/APPROACH 24/ TAKE-OFF	TREE	512043.75N 0003351.57W	114 FT	45 FT	No	
(EGTF1109) 06/APPROACH 24/ TAKE-OFF	TREE	512043.47N 0003351.43W	120 FT	51 FT	No	
(EGTF1060) 24/TAKE-OFF	TREE	512042.12N 0003400.24W	109 FT	37 FT	No	
(EGTF1036) 24/TAKE-OFF	TREE	512040.90N 0003406.19W	119 FT	48 FT	No	
(EGTF1044) 06/APPROACH 24/ TAKE-OFF	TREE	512039.54N 0003404.84W	134 FT	63 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTF1351)	TREE	512205.06N 0003232.43W	254 FT	95 FT	No	
(EGTF1358)	TREE	512157.49N 0003226.36W	246 FT	99 FT	No	
(EGTF1278)	TREE	512149.19N 0003259.97W	326 FT	135 FT	No	
(EGTF1027)	TREE	512144.45N 0003428.68W	192 FT	71 FT	No	
(EGTF1383)	TREE	512139.76N 0003208.00W	289 FT	125 FT	No	
(EGTF1313)	TREE	512129.40N 0003252.74W	244 FT	96 FT	No	
(EGTF1227)	TREE	512126.30N 0003319.12W	237 FT	87 FT	No	
(EGTF1331)	MAST	512125.63N 0003248.05W	225 FT	81 FT	No	
(EGTF1080)	TREE	512121.87N 0003352.53W	241 FT	86 FT	No	
(EGTF1304)	TREE	512115.25N 0003256.30W	203 FT	111 FT	No	
(EGTF1346)	TREE	512100.38N 0003238.35W	196 FT	83 FT	No	
(EGTF1300)	TREE	511943.49N 0003300.53W	188 FT	88 FT	No	

EGTF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	
2	Hours of service MET Office outside hour	
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	

6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Unofficial meteorological observations provided by A/G Station during AD hours.

EGTF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06	057.91°	810 x 27 M	RWY surface: Asphalt	512046.85N 0003346.80W 150.4 FT	THR 78.4 FT TDZ 80.4 FT	
24	237.91°	810 x 27 M	RWY surface: Asphalt	512059.67N 0003314.16W 150.4 FT	THR 76.4 FT TDZ 80.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	63 x 150 M	930 x 83 M				RWY 06 Threshold displaced by 53 M due to bridle path.
		930 x 83 M				RWY 24 Threshold displaced by 11 M due to public footpath.

EGTF AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	810 M	873 M	810 M	757 M	
24	810 M	810 M	810 M	799 M	

EGTF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06	Pilot Controlled Lighting available.	Light intensity low	APAPI Left/3.5° 14 FT			Light intensity low	Red		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
24		Light intensity low	APAPI Left/4° 20 FT			Light intensity low	Red		EDGE: The last 3 runway edge lights are cautionary yellow. END: End lights are visible only for the last 150 M of LDA.

EGTF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 512101.05N 0003347.64W Flashing White.
2	LDI location and lighting Anemometer location and lighting	Anemometer: (LGTD) - 512054.90N 0003335.31W - 512048.91N 0003349.52W.
3	TWY edge and centre line lighting	CL: LI Green centre-line on Taxiway A.
4	Secondary power supply/switch-over time	None
5	Remarks	Fixed wing pilots must ignore the helicopter specific approach lighting (for use by Starspeed only), consisting of a combination of flashing white and red lights, installed adjacent to the western helipads.

EGTF AD 2.16 HELICOPTER LANDING AREA

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EGTF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
FAIROAKS ATZ A circle, 2 NM radius, centred at 512053N 0003331W on longest notified runway (06/ 24)	Upper limit: 2000 FT AGL Lower limit: SFC	G	FAIROAKS RADIO English	6000 FT		Airspace Class: Part of the Fairoaks ATZ within the London CTR or Farnborough CTA is Class D. Vertical Limits: Part of the ATZ above 1500 FT AMSL is ceded to London Heathrow, and part of the ATZ above 2000 FT AMSL is ceded to Farnborough. Designation and lateral limits: Local Flying Area see EGTF AD 2.22, Flight Procedures.

EGTF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	FAIROAKS RADIO	123.430 A/G Frequency DOC 10 NM/3,000 FT			Mon-Sat 0800-1800 (0700-1700); Sun and PH 0900-1800 (0800-1700).	ATZ hours coincident with A/G hours. Hours: Daily by arrangement within the period 0700-2200 (0600-2100).

EGTF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGTF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) First time visitors are required to obtain a telephone briefing from the A/G Station.
b) Pilots are responsible for the safety and conduct of their passengers whilst airside at this airport.
c) Not available to aircraft unable to communicate by radio.
d) Aerodrome is not available to weight shift microlights.
e) No circuit training permitted on PHs and outside published operating hours.
f) Aerodrome closed to all traffic on Christmas day.
g) When the visibility is less than 3000 M, landing operations for Twin turbo-prop aircraft with certified weights above 5700 KG and turbo-fan aircraft of any weight that are not normally based at Fairoaks Airport will not normally be permitted. If the operation is conducted in accordance with a JAA AOC then the visibility minimum landing shall be as stated in the operators Operations Manual.
h) Due to planning restrictions, only four runway movements are permitted before 1000 (0900) on Sundays. A similar restriction of only four movements also applies after 2000 (1900). Pilots who wish to operate before 1000 (0900) or after 2000 (1900) on Sundays must obtain a runway slot from the tower. No fixed wing movements are permitted between 2200 (2100) and 0700 (0600).
i) High visibility clothing must be worn by all personnel on the apron and manoeuvring area between sunset and sunrise, except for passengers who are being escorted.
j) With the exception of approved operators the aerodrome is not available for circuit flying by non-Fairoaks based aircraft.

2 GROUND MOVEMENT

a) The taxiway to the south of the Runway 24 threshold is not maintained and is unavailable to aircraft requiring a licensed aerodrome.
b) The tarmac apron in front of the hangar opposite the fuel farm is not available for taxiing aircraft due to surface condition.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) A public footpath crosses the aerodrome close to the threshold of Runway 24.
b) Pilots are advised to exercise extreme caution when taxiing through the apron/parking areas due to reduced wing tip clearances. Pilots should satisfy themselves that they have adequate wingtip clearances whilst taxiing.
c) The aerodrome is frequently used outside the published hours of operation by both fixed and rotary wing aircraft.
d) The grass areas are subject to waterlogging.
e) The helicopter landing site, marked with an ‘H’ immediately to the south of the aerodrome boundary is a private landing site and does not form part of Fairoaks aerodrome.
f) Caution, the LDA and paved surface for Runway 06 ends 13 M beyond the runway end lights.

5 HELICOPTER OPERATIONS

a) Approaches by helicopters should normally be made to the grass to the south of the runway. Subject to traffic, including taxiing aircraft, approaches may also be made to the grass to the north of the runway. Helicopters making an approach to the grass to the north of Runway 24 must avoid overflying the buildings in the north east corner of the airfield.
b) Helicopters which require an approach to the runway must state their intentions on first contact with Fairoaks Radio.

6 USE OF RUNWAYS

a) The aerodrome is equipped with Pilot Controlled Lighting, details from Aerodrome Licensee.

7 TRAINING

Not applicable

EGTF AD 2.21 NOISE ABATEMENT PROCEDURES

a) For noise abatement purposes, pilots are to avoid overflying the properties in the northeast corner of the aerodrome below 1100 FT QNH.

EGTF AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuits variable.
b) All procedures are based on Fairoaks QNH.
c) Circuit altitude is 1100 FT for aeroplanes and 800 FT for helicopters.
d) Inbound aircraft and circuit traffic should squawk 7010 when operating in the Fairoaks circuit and ATZ/LFA unless otherwise instructed.
e) Joining

   i. Aeroplanes should normally enter the ATZ level at 1400 FT AMSL, and descend to 1100 FT AMSL when north of the runway prior to turning:

      1. downwind for Runway 06 left hand circuit;
      2. crosswind for Runway 24 left hand circuit;
      3. crosswind for Runway 06 right hand circuit;
      4. downwind for Runway 24 right hand circuit.

   ii. ‘Straight-in’, ‘downwind’ and ‘base’ joins are strongly discouraged when the circuit is active.
   iii. Helicopters should normally enter the ATZ level at 800 FT AMSL and let down south of the runway. Helicopters which wish to utilise the runway should conform to fixed wing procedures.

2 LOCAL FLYING AREA

a) Within a Local Flying Area (LFA) of 2 NM radius, centred on the aerodrome (512053N 0003331W) and fillets to the east bounded by lines joining positions:

   512211N 0003107W - 512124N 0003001W - 512014N 0002925W - 512013N 0003032W thence anti-clockwise by the arc of a circle radius 2 NM centred on 512053N 0003331W (aerodrome) to 512211N 0003107W and to the west bounded by lines joining positions: 512013N 0003633W - 512013N 0003800W - 512017N 0003822W - 512208N 0003602W thence anti-clockwise by the arc of a circle radius 2 NM centred on 512053N 0003331W (aerodrome) to 512013N 0003633W.

b) Pilots of aircraft operating within LFA are responsible for providing their own separation from other aircraft operating within the LFA.
c) Aircraft may approach Fairoaks from the southern quadrant, between the western and the eastern fillets, but must remain west of the M25 Orbital Motorway.
d) VFR flights may take place within the LFA subject to the following conditions:

   i. In compliance with the Class D Airspace weather minima as defined in ENR 1.4;
   ii. Maximum altitude: 1500 FT QNH.

e) Aircraft unable to operate VFR may operate Special VFR within the LFA subject to the following conditions:

   i. Remain clear of cloud and with the surface in sight;
   ii. Maximum altitude: 1500 FT QNH;
   iii. By day only;
   iv. A minimum flight visibility of 3 KM;
   v. In compliance with the requirements of ENR 1.2.

f) Mode S Transponders:

   i. The carriage of a Mode S Transponder within the LFA is encouraged, however there is currently no requirement for aircraft operating in the Fairoaks LFA to comply with the requirements of the London CTR Mode S Transponder Mandatory Zone (TMZ).
   ii. Pilots of suitably equipped aircraft shall utilise the transponder to the maximum serviceable extent with altitude information selected when fitted.

3 AIRCRAFT IN THE LONDON CTR OUTSIDE THE FAIROAKS LFA

a) Aircraft operating VFR or Special VFR in the London CTR inbound to Fairoaks (or otherwise) must not assume permission has been issued to penetrate the Fairoaks LFA. Heathrow Radar will, whenever possible, permit an aircraft to leave the frequency temporarily to obtain such permission. If this is not possible, aircraft must leave the CTR clear of the Fairoaks LFA and route to Fairoaks from a southerly direction.
b) Pilots requiring a VFR or Special VFR clearance to transit the London CTR must remain within the confines of the Fairoaks LFA until a clearance has been obtained from Heathrow Radar.

4 Procedures for IFR flights via the ATS Route Network

a) **General**

In order to provide improved ATC handling of flights via the ATS Route Network, a system of Standard Routes has been established and these are published in the UK Standard Route Document (SRD) which can be found here:

http://www.nats.aero/ais.

Additionally, aircraft inbound via the ATS Route Network must follow the Farnborough Standard Arrival Routes (STAR) as shown at AD 2-EGLF-7-1 to 7-4.

b) **Flight Plans**

Pilots wishing to fly on the ATS Route System are to flight plan via the appropriate routes detailed in paras (c) and (d).

c) **Inbound Aircraft**

i. Routes

Inbound aircraft that are RNAV 1 compliant are to flight plan via the RNAV 1 Standard Arrival Routes (STARs) associated with Farnborough as detailed in AD 2.EGLF-7-1 to AD 2.EGLF-7-2. Other aircraft are to flight plan via the RNAV 5 STARs as detailed in AD 2.EGLF-7-3 to AD 2.EGLF-7-4.

Note: *Arrivals routing via RNAV5 STARs may be tactically routed via 5LNC points detailed within the RNAV1 STAR plates. Crews should be familiar with the following 5LNC points: -*

Point	Latitude	Longitude
INDOX	511839.55N	0010114.04W
DIXIB	511412.22N	0005053.53W
EVATA	510821.29N	0004557.52W
LUXIV	510510.63N	0004657.06W

ii. **Inbound Procedures**

1. After leaving the ATS Route System, pilots will normally be provided with a radar service outside controlled airspace by Farnborough ATC during the notified operating hours shown at EGLF AD 2.18. A contact frequency will be given by London Control before leaving the ATS Route System.
2. When Farnborough Radar is closed or unable to provide a radar service, pilots will be instructed to leave controlled airspace at an appropriate point and are then to proceed by a route which remains clear of controlled airspace.

iii. **Speed Limits**

Speed limit points are included within the various Standard Arrival Routes (STARs) referred to in c (i).

iv. **Loss of Communications Procedures (inbound aircraft)**

Aircraft should descend to leave controlled airspace at an appropriate point and proceed outside controlled airspace in accordance with the Basic Loss of Communications Procedures detailed at ENR 1.1 paragraph 3.4.

d) **Departing Aircraft**

i. **Routes**

1. ATS Route joining clearance is to be requested for the first ATS Significant Point in the routes detailed below. **These routes are not assessed for obstacle clearance and do not constitute Standard Instrument Departure procedures.**
2. Pilots who wish to join the ATS Route Network at other than CPT, GWC or HAZEL should flight plan to join the ATS Route Network when clear of the London TMA.

Note: *Pilots should be aware that the provision of ATS is extremely limited for any flight outside CAS between OCK/BIG/DET. This is due to the large number of locations from which extensive VFR operations take place in this constrained area, combined with the limitations of any ATS provision.*

Pilots should therefore take into account the lack of available ATS in any area that is known to be busy with multiple VFR operations and should anticipate the extended time that may be required to operate outside CAS before any joining clearance can be provided.

Additionally, requests made to LTC Swanwick to join CAS prior to the boundary of the London TMA may be declined due to sector workload and it should also be noted that below FL 70 a Basic Service is the only ATS available from LTC Swanwick TMA controllers.

Departure to	Via	Route	Notes
North	CPT	As per UK SRD.	Includes departures to EGGW, EGSC, EGSG, EGSS and EGSU.
Northeast			
West			
Northwest			
South	GWC	As per UK SRD.	Includes departures to EGKA, EGKB, EGKK, EGKR, EGLC and EGMC.
East	HAZEL	As per UK SRD.	Includes departures to EGLD, EGLL and EGWU.
Southeast			
Southwest			

Note: *See UK Standard Route Document (available online from the NATS/AIS website)*

http://www.nats.aero/ais.

ii. **Procedures**

1. **Pilots are to ensure that they have received and acknowledged a joining clearance before entering controlled airspace.**
2. The Fairoaks A/G Station will notify the pending departure to London Terminal Control (LTCC) and will co-ordinate the departure with Farnborough.
3. All departures into the ATS Route Network require approval from Farnborough. Details of the phraseology that will be used is available on the airport website at https://fairoaksairport.uk/phraseology/.
4. When Runway 24 is in use at both Fairoaks and Farnborough, the Fairoaks A/G Station will normally relay joining clearances to enter the Farnborough CTR/CTA, to pilots on behalf of Farnborough Radar. At all other times the Fairoaks A/G Station will issue pilots with after departure instructions and pilots **must remain outside of controlled airspace** until a clearance to enter controlled airspace has been issued by Farnborough Radar or LTCC.
5. Aircraft will contact Farnborough Radar as soon as possible after departure from Fairoaks. Unless otherwise instructed, the Farnborough Radar frequency is 134.355 MHz.
6. Farnborough Radar will individually coordinate entry into the ATS Route Network with LTCC once the departure is airborne. This may require the aircraft to leave Farnborough controlled airspace prior to subsequent join into the LTMA. If this is the case, Farnborough Radar may provide a Traffic Service or Deconfliction Service as appropriate.
7. If Farnborough Radar is closed or is unable to provide a radar service outside controlled airspace the Fairoaks Radio will transfer the aircraft directly to the appropriate LTCC sector and the pilot must request clearance to join controlled airspace.
8. Pilots are reminded of the need to comply with any Air Traffic Flow Management measures in force at the time.
9. Departures outside of the opening hours of Fairoaks Radio requiring ATS route joining clearance are requested to call the London Terminal Control Assistant on 02380-401008 prior to departure in order to activate their flight plan and receive an airways squawk. An SSR code will be issued by Farnborough Radar during their operational hours (Outside of this, the SSR code will be available from the Terminal Control Assistant). Pilots shall be cognisant of the opening hours of Farnborough Radar (see EGLF AD 2.3), and are required to telephone Farnborough on 01252-526015 during opening hours, or blind call on 134.355 MHz in the event of departure within the 15-minute period prior to Farnborough opening.

iii. **Loss of Communication Procedures (outbound aircraft)**

1. Pilots should adopt the Loss of Communications Procedures detailed at ENR 1.1, paragraph 3.4.

Flights which have not received an ATC clearance to enter controlled airspace should not enter controlled airspace unless an overriding safety reason compels entry.

e) **Warnings**

Below FL 65, aircraft arriving/departing via the ATS route network can expect to operate within Class Echo airspace between ASLAP and 3 NM West of HAZEL/within 7.5 NM of GWC. ATC will **not** provide notification to pilots of entry to or exit from Class Echo airspace when the aircraft is transitioning from a higher classification of airspace.

Within these volumes of airspace VFR traffic may be operating but not in communication with Farnborough Radar.

5 DEPARTURES

a) When departing Fairoaks from Runway 24, pilots must not delay their initial turn to ensure that they do not infringe the Farnborough CTR which is located to the southwest of Fairoaks at a range of less than 3 NM.
b) Caution, the base of controlled airspace to the south of Fairoaks is 2000 FT AMSL.

c) Pilots of VFR flights who intend to seek permission to transit Farnborough controlled airspace must make their intention clear to the Fairoaks A/G Station prior to departure in order that they are transferred to the correct frequency. **Pilots are to ensure that they have received and acknowledged a joining clearance before entering controlled airspace.**

EGTF AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGTF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTF-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGTF-2-2
FAIROAKS LOCAL FLYING AREA
AD 2.EGTF-4-1

EGTF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

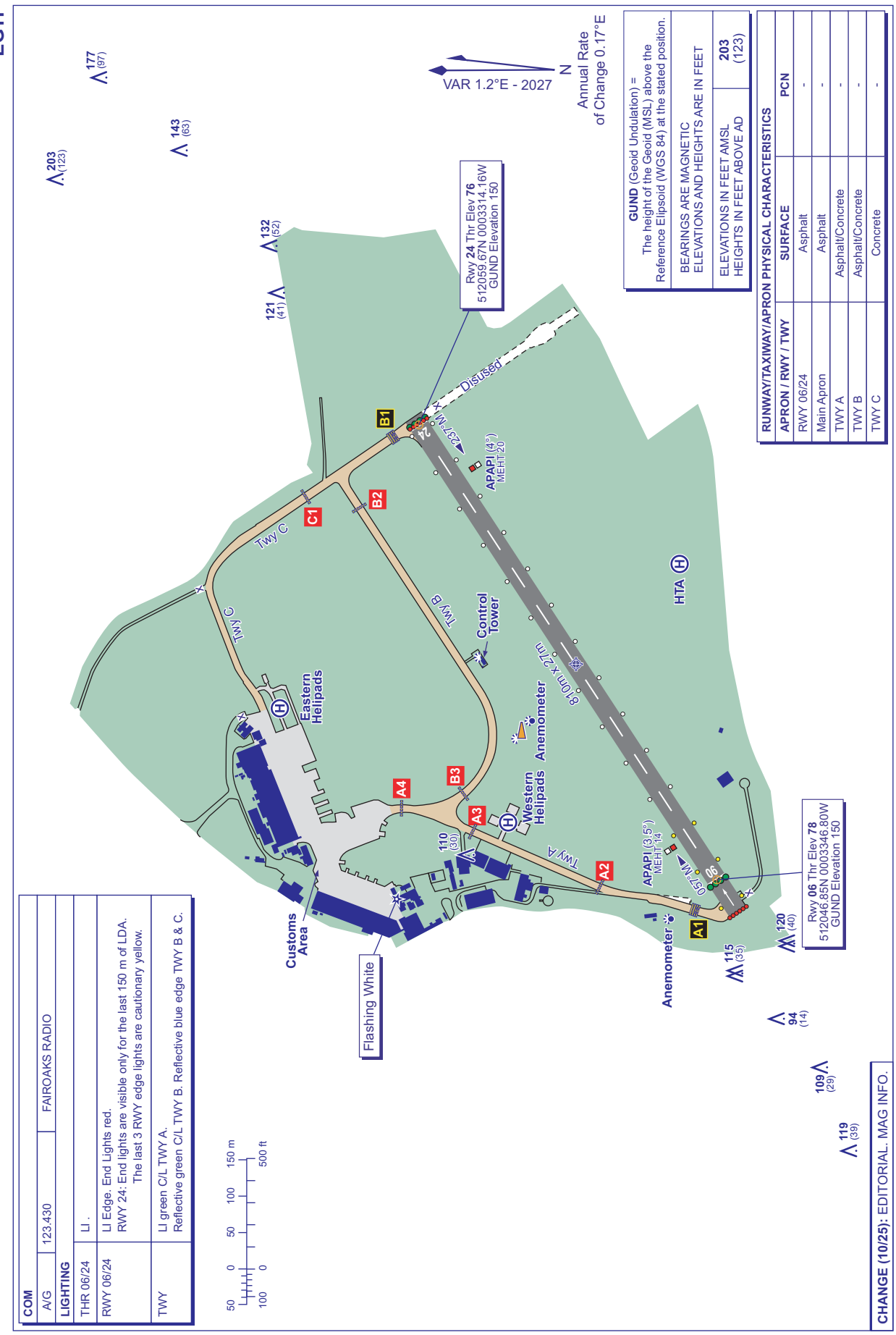
Not applicable

FAIROAKS EGTF

AERODROME CHART - ICAO

ARP 512053N 0003331W

AD ELEV 80FT

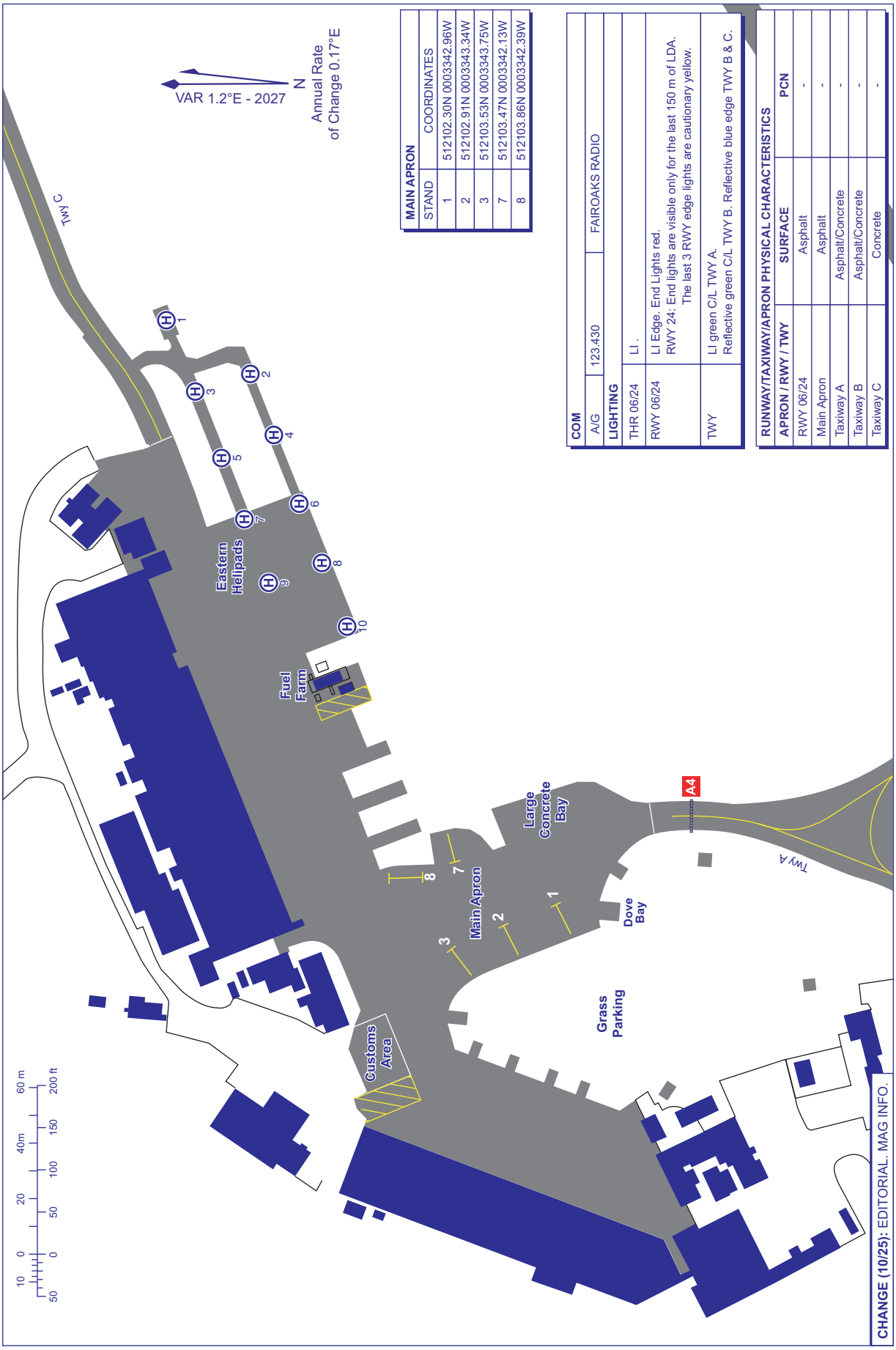


FAIROAKS EGTF

AD ELEV 80FT

ARP 512053N 0003331W

AIRCRAFT PARKING/DOCKING CHART - ICAO



MAIN APRON	
STAND	COORDINATES
1	512102.30N 0003342.96W
2	512102.91N 0003343.34W
3	512103.53N 0003343.75W
7	512103.47N 0003342.13W
8	512103.86N 0003342.39W

COM	
A/G	123.430 FAIROAKS RADIO
LIGHTING	
THR 06/24	LI .
RWY 06/24	LI Edge. End Lights red. RWY 24: End lights are visible only for the last 150 m of LDA. The last 3 RWY edge lights are cautionary yellow.
TWY	LI green C/L TWY A. Reflective green C/L TWY B. Reflective blue edge TWY B & C.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	PCN
RWY 06/24	Asphalt	-
Main Apron	Asphalt	-
Taxiway A	Asphalt/Concrete	-
Taxiway B	Asphalt/Concrete	-
Taxiway C	Concrete	-

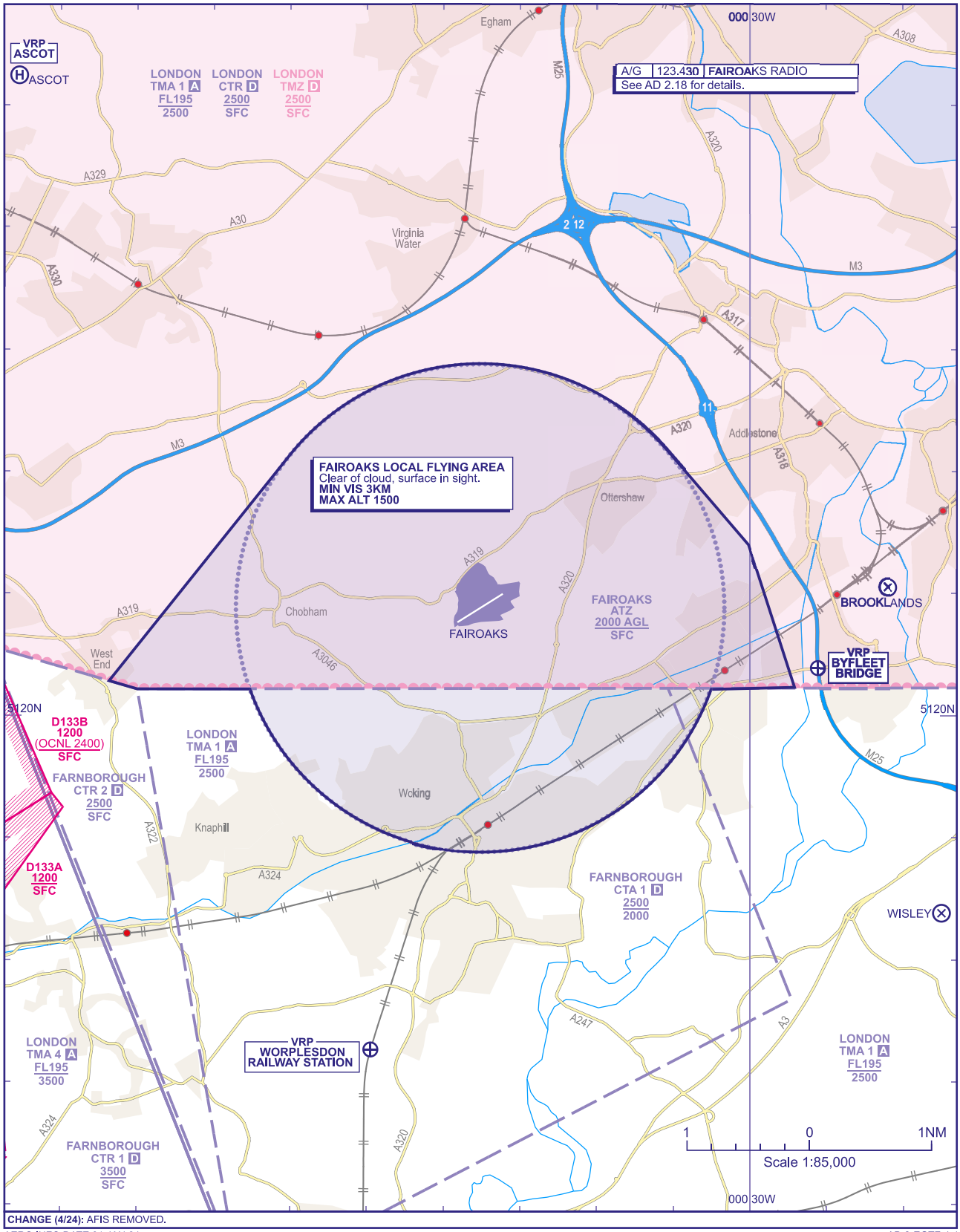
CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 21 JUL 25

AD 2-EGTF-2-2

FAIROAKS LOCAL FLYING AREA

FAIROAKS



CHANGE (4/24): AFIS REMOVED.

AERO INFO DATE 31 JAN 24

AD 2-EGTF-4-1

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EGLF — FARNBOROUGH

EGLF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGLF — FARNBOROUGH

EGLF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 511631N Long: 0004639W Mid point of Runway 06/24
2	Direction and distance from city	1 NM NNW of Aldershot.
3	Elevation / Reference temperature / Mean Low Temperature	238 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	0.33°E (2022) / 0.20°E
6	AD Administration Address Telephone AFS SITA E-mail address	FARNBOROUGH AIRPORT LTD Farnborough Airport, Farnborough, Hampshire, GU14 6XA. 01252-526017 (ATC - Visual) 01252-526015 (ATC - Radar) 01252-379002 (Farnborough Airport Ops) EGLFFBOT LHRKOCR ops@farnboroughairport.com (Farnborough Airport Ops)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGLF AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18. Aerodrome may close earlier if there is no scheduled traffic. In these circumstances a NOTAM will be issued and the Airport Operations frequency will be closed.
8	Fuelling	Aircraft fuelling permitted Mon-Fri 0545-2215 (0445-2115); Sat, Sun and PH 0700-2015 (0600-1915).
9	Handling	As AD hours.
10	Security	H24
11	De-icing	As AD hours.
12	Remarks	This aerodrome is PPR through Farnborough Airport Ops. Aerodrome may close earlier if there is no scheduled traffic. In these circumstances a NOTAM will be issued and the Airport Operations frequency will be closed. Aerodrome CLOSED on 25 and 26 December.

EGLF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Contact Farnborough Airport Ops.
2	Fuel and oil types	AVTUR JET A-1 and SAF (Sustainable Aviation Fuel).
3	Fuelling facilities/capacity	Bowser.
4	De-icing facilities	Yes, contact Farnborough Airport Ops.
5	Hangar space for visiting aircraft	Available on prior notice to Farnborough Airport Ops.
6	Repair facilities for visiting aircraft	Available from Farnborough Engineering (01252-372400).

7	Remarks	Ground Handling for all visiting civil aircraft will be undertaken by Farnborough Airport Ops on North Apron. Crews must seek prior permission from Farnborough Airport Ops, if aircraft refuelling with passengers on board is required. Oxygen: OXRB. Starting Units: E1, 3, 4, 6, 7 and 10.

EGLF AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel on aerodrome and several within 2 NM of aerodrome.
2	Restaurants	Several within 2 NM of airport.
3	Transportation	Car Hire and taxis available via Farnborough Airport Ops. Nearest railway stations: Farnborough Main 1 NM; North Camp 1 NM.
4	Medical facilities	Limited first aid treatment on aerodrome; local ambulance service.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	Executive Lounge in Terminal Building.

EGLF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 7 accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Refer to Airport Operations (01252-379002).
4	Remarks	

EGLF AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, chemical anti and de-ice.
2	Clearance priorities	Full length of Runway 06/24 minimum width 30 M.
3	Remarks	Latest information from ATC: 01252-526017.

EGLF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	BRAVO APRON Surface: Concrete PCR 524/R/B/X/U EAST APRON Surface: Concrete PCR 310/R/C/W/U JULIET APRON Surface: Concrete PCR 524/R/B/X/U NORTH APRON Surface: Concrete PCR 556/R/D/X/U SOUTH ONE APRON Surface: Asphalt PCR 132/F/D/W/U SOUTH TWO APRON Surface: Concrete PCR 317/R/D/X/U WEST ONE APRON Surface: Concrete PCR 556/R/D/X/U WEST THREE APRON Surface: Concrete PCR 317/R/D/X/U WEST TWO APRON Surface: Concrete PCR 317/R/D/X/U
2	Taxiway width, surface and strength	Taxiway ALPHA: 15 M Surface: Concrete and asphalt PCR 448/F/C/W/U Taxiway BRAVO: 15 M Surface: Asphalt PCR 507/F/D/W/U Taxiway C NORTH OF 06/24: 15 M Surface: Asphalt PCR 507/F/D/W/U Taxiway DELTA: 15 M Surface: Asphalt PCR 507/F/D/W/U Taxiway ECHO: 15 M Surface: Asphalt PCR 507/F/D/W/U Taxiway FOXTROT: 15 M Surface: Asphalt PCR 507/F/D/W/U Taxiway JULIET: 15 M Surface: Concrete PCR 524/R/B/X/U Taxiway WHISKEY: 15 M Surface: Asphalt PCR 132/F/D/W/U

		Taxiway YANKEE: 15 M Surface: Asphalt PCR 326/F/D/W/U Taxiway ZULU: 15 M Surface: Asphalt PCR 326/F/D/W/U
3	Altimeter checkpoint location and elevation	North Apron - 213 FT East Apron - 224 FT South Apron One - 224 FT South Apron Two - 221 FT West One Apron - 212 FT West Two Apron - 217 FT West Three Apron - 217 FT Bravo Apron - 207 FT Juliet Apron - 211 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	Portion of disused taxiway between Taxiway Zulu and South 1 Apron (as shown on AIP AD 2-EGLF-2-1) may be promulgated as available by NOTAM. This would be an extension of existing Taxiway Yankee.

EGLF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 06/24: Runway designation, displaced landing thresholds, runway centre-line, runway edge, abbreviated touchdown zone, aiming point. Continuous yellow lines mark the runway entry/exit routes. 06 starter extension has a turn pad marking suitable for aircraft up to and including BBJ2 size. Runway light(s): Threshold – HI green, Runway edge – HI colour coded red (pre threshold)/ white/yellow (caution zone), Stop End – HI red. Taxiway light(s): Runway guard lights (permanently in operation) at all taxiway/runway intersections, colour coded green/yellow centre-line lights within ILS sensitive area at A1, B1, F3, W and Y. Green centre-line lights on taxiways Alpha, Bravo, Delta, Juliet, West 1 and North Aprons. Blue edge lights on remaining taxiways including Bravo between B3 and B4.
3	Stop bars and runway guard lights (if any)	At all holding points
4	Other runway protection measures	
5	Remarks	Wind direction indicators (LGTD): 511650.89N 0004558.68W; 511630.41N 0004701.85W.

EGLF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLF16842) 24/APPROACH 06/ TAKE-OFF	TREE	511747.34N 0004246.13W	433 FT	68 FT	No	
(EGLF15659) 24/APPROACH	BUILDING OBS LIGHT	511705.83N 0004524.27W	323 FT	98 FT	Yes Red	
(EGLF15635) 24/APPROACH 06/ TAKE-OFF	FLAGPOLE	511655.59N 0004512.58W	296 FT	45 FT	No	
(EGLF15626) 24/APPROACH	WDI	511650.89N 0004558.68W	243 FT	27 FT	Yes Red	
(EGLF18106) 06/APPROACH 24/ TAKE-OFF	TREE	511611.14N 0004751.54W	293 FT	75 FT	No	
(EGLF14405) 06/APPROACH 24/ TAKE-OFF	TREE	511610.84N 0004803.04W	310 FT	54 FT	No	
(EGLF18282) 06/APPROACH	TREE	511607.57N 0004736.17W	285 FT	77 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLF18109) 06/APPROACH 24/ TAKE-OFF	TREE	511605.21N 0004810.93W	325 FT	88 FT	No	
(EGLF15087) 06/APPROACH 24/ TAKE-OFF	TREE	511604.16N 0004801.22W	306 FT	21 FT	No	
(EGLF16671) 06/APPROACH 24/ TAKE-OFF	TREE	511603.97N 0004802.04W	307 FT	23 FT	No	
(EGLF18263) 06/APPROACH 24/ TAKE-OFF	TREE	511600.03N 0004802.00W	318 FT	88 FT	No	
(EGLF17537) 06/APPROACH 24/ TAKE-OFF	TREE	511559.95N 0004757.70W	308 FT	20 FT	No	
(EGLF16007) 06/APPROACH	TREE	511557.57N 0004914.49W	409 FT	86 FT	No	
(EGLF18333) 06/APPROACH	TREE	511555.29N 0004754.21W	340 FT	93 FT	No	
(EGLF15885) 06/APPROACH 24/ TAKE-OFF	TREE	511552.85N 0004912.99W	397 FT	77 FT	No	
(EGLF16012) 06/APPROACH 24/ TAKE-OFF	TREE	511549.34N 0004914.84W	400 FT	81 FT	No	
(EGLF15905) 06/APPROACH 24/ TAKE-OFF	TREE	511547.07N 0004825.73W	355 FT	35 FT	No	
(EGLF18311) 06/APPROACH	TREE	511540.92N 0004824.81W	408 FT	104 FT	No	
(EGLF16092) 06/APPROACH 24/ TAKE-OFF	BUILDING FLAGPOLE	511536.43N 0004909.29W	406 FT	34 FT	No	
(EGLF16035) 06/APPROACH 24/ TAKE-OFF	TREE	511515.09N 0004933.52W	459 FT	71 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLF16883)	MAST	512124.67N 0004321.30W	765 FT	350 FT	Yes Red	
(EGLF16882)	MAST	511909.94N 0004656.23W	443 FT	110 FT	No	
(EGLF16170)	BUILDING PINNACLE	511749.74N 0004458.41W	420 FT	123 FT	No	
(EGLF16384)	CLOCKTOWER	511513.58N 0004528.95W	473 FT	117 FT	No	
(EGLF16133)	TREE	511503.94N 0004903.71W	575 FT	135 FT	No	
(EGLF16130)	TREE	511457.63N 0004824.20W	518 FT	86 FT	No	
(EGLF15911)	MAST	511445.51N 0004920.32W	686 FT	135 FT	Yes Red	
(EGLF16767)	TREE	511428.54N 0004818.69W	662 FT	79 FT	No	
(EGLF16560)	MAST	511411.51N 0004900.85W	716 FT	107 FT	Yes Red	
(EGLF16558)	WATERTOWER MAST	511408.89N 0004853.76W	722 FT	116 FT	No	
(EGLF16565)	MAST	511403.59N 0004914.57W	770 FT	179 FT	No	

EGLF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24

3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	Charts. Abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	AIRMET Southern Region; METFORM 215 (via Farnborough Airport Ops).
8	Supplementary equipment available for providing information	Briefing terminal in Farnborough Airport Ops (not accessible via ATC).
9	ATS units provided with information	FARNBOROUGH
10	Additional information (limitation of service, etc.)	MET information not available outside aerodrome operating hours. ATIS 128.405 Aerodrome hours only.

EGLF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06	062.02°	2440 x 45 M	RWY surface: Concrete and asphalt, Other preparation PCR 448/F/C/W/U SWY surface: Concrete and asphalt PCR 448/F/C/W/U	511622.19N 0004706.76W 151.0 FT	THR 224.6 FT TDZ 224.6 FT	
24	242.03°	2440 x 45 M	RWY surface: Concrete and asphalt, Other preparation PCR 448/F/C/W/U SWY surface: Concrete and asphalt PCR 448/F/C/W/U	511641.36N 0004609.22W 151.0 FT	THR 218.6 FT TDZ 218.6 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
590 x 45 M	60 x 150 M	2560 x 280 M				RWY 06 Threshold displaced by 540 M. Runway 06 has a starter extension of 150 x 30 M. The turning circle at the extremity of the starter extension has a radius of 20 M.
377 x 45 M	60 x 150 M	2560 x 280 M				RWY 24 Threshold displaced by 640 M. Stopways Take-off only.

EGLF AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	2000 M	2060 M	2590 M	1800 M	
24	2063 M	2123 M	2440 M	1800 M	
06	1809 M	1869 M	2398 M		Take-off from intersection Taxiway Foxtrot One.
24	1828 M	1888 M	2205 M		Take-off from intersection Taxiway Bravo.

EGLF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06	Coded centre-line with five crossbars. 900 M Light intensity high	Green Light intensity high With elevated wingbars	PAPI Left/3.5° 51 FT 308.2 M			HI bi-directional with a LI omni-directional component every 60 M	Red Light intensity high		EDGE: Starter extension has blue edge lights. Runway 06 has 600 M yellow caution zone lighting at the upwind end. END: Starter extension has blue end lights.
24	Coded centre-line with five crossbars. 900 M Light intensity high	Green Light intensity high With elevated wingbars	PAPI Left/3.5° 51 FT 275.66 M			HI bi-directional with a LI omni-directional component every 60 M	Red Light intensity high		EDGE: Runway 24 has 600 M yellow 'caution zone' lighting at the upwind end.

EGLF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Centre of central grass area, obstruction light; Runway 06/24 thresholds and threshold anemometers adjacent to ILS glidepath antennae. Runway 06: 511631.54N 0004655.20W (LGTD); Runway 24: 511641.55N 0004625.76W (LGTD).
3	TWY edge and centre line lighting	CL: Colour coded green/yellow centre-line lights within ILS sensitive area at A1, B1, F3, W and Y. Green centre-line lights on taxiways Alpha, Bravo, Delta, Juliet, West 1 and North Aprons. EDGE: Blue edge lights.
4	Secondary power supply/switch-over time	Yes, 1 Second.
5	Remarks	

EGLF AD 2.16 HELICOPTER LANDING AREA

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EGLF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
FARNBOROUGH CTR 1 512112N 0004247W thence anti-clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 512103N 0004236W - 512035N 0003959W - 511520N 0003639W - 511035N 0005054W - 511705N 0005508W - 512112N 0004247W	Upper limit: 3500 FT ALT Lower limit: SFC	D	FARNBOROUGH RADAR English	6000 FT		Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900). VFR/SVFR transit of Farnborough CTR 1 & 2 to be requested on Farnborough Radar frequency 133.440 MHz. A portion of the Blackbushe ATZ is within the CTR, and operates as a Blackbushe Local Flying Area (LFA). Aircraft operate within this not above 2000 FT AMSL when in communication with Blackbushe information on 122.305 MHz. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
FARNBOROUGH CTR 2 512035N 0003959W - 512013N 0003800W - 511520N 0003639W - 512035N 0003959W	Upper limit: 2500 FT ALT Lower limit: SFC	D	FARNBOROUGH RADAR English	6000 FT		Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900). VFR/SVFR transit of Farnborough CTR 1 & 2 to be requested on Farnborough Radar frequency 133.440 MHz. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
FARNBOROUGH ATZ 511758N 0004954W - 511801N 0004919W - 511806N 0004829W - 511812N 0004723W - 511817N 0004705W - 511851N 0004551W - 511856N 0004537W thence clockwise by the arc of a circle radius 2.5 NM centred on 511631N 0004639W to 511758N 0004954W	Upper limit: 2000 FT AGL Lower limit: SFC	G	FARNBOROUGH RADAR English	6000 FT		Mon-Fri 0645-2215 (0545-2115); Sat, Sun and PH 0745-2015 (0645-1915). The northern boundary of the ATZ is formed by the northern extremity of the M3 motorway. During the Notified Hours of Farnborough CTR 1 the ATZ lies within CTR 1 and is Class D airspace. The Farnborough ATZ is active for 15 minutes before and after the CTR promulgated hours. Warning – Pilots must not enter the Farnborough ATZ when active without prior permission.

EGLF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	FARNBOROUGH GROUND	121.815 DOC 2 NM/GND. Initial call for start or taxi clearance should be made to Farnborough Tower on 122.780 MHz unless notified by ATIS broadcast that Farnborough Ground is in operation. Frequency may close earlier than 2200 (2100) when no further aerodrome movements are expected.			Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	
	FARNBOROUGH TOWER	122.780 DOC 25 NM/4,000 FT. Frequency may close earlier than 2200 (2100) when no further aerodrome movements are expected.			Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	
RADAR	FARNBOROUGH DIRECTOR	130.055 DOC 25 NM/6,000 FT.			As directed by ATC.	
	FARNBOROUGH RADAR	125.250 Odiham MATZ Penetration. DOC 40 NM/ 15,000 FT. Radar services unavailable below 1500 FT AMSL. Outside of 0800-2000 (0700-1900), aircraft may (subject to workload) receive a service from Farnborough or be requested to contact an alternative VHF frequency.			Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	
		133.440 DOC 25 NM/ 8,000 FT. Dedicated VFR/ SVFR transit request frequency.			Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	
		134.355 DOC 40 NM/8,000 FT.			Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
ATIS	FARNBOROUGH INFORMATION	128.405 DOC 60 NM/ 40,000 FT.			Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	Available from 10 minutes prior to AD opening.
OTHER	FARNBOROUGH FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	FARNBOROUGH EMERGENCY	121.500 Emergency Frequency			O/R	

EGLF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.14°E (2027)	IFRG	111.550 MHz	Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	511656.42N 0004523.98W		(RWY 06) DME instead of Markers. Not suitable for lower than Cat I operations.
ILS/GP	IFRG	332.750 MHz	Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	511630.49N 0004656.13W		3.5° ILS Ref Datum Hgt 50 FT.
ILS/LOC I 1.13°E (2027)	IFNB	111.550 MHz	Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	511609.58N 0004744.59W		(RWY 24) DME instead of Markers. See AD 2.21, para 4 for information reference approved descent path. Not suitable for lower than Cat I operations.
ILS/GP	IFNB	332.750 MHz	Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	511640.91N 0004624.86W		3.5° ILS Ref Datum Hgt 50 FT.
VOR/DME 1.24°E (2027) 0.6°E (2022)	OCK	100X 115.300 MHz	H24	511818.17N 0002649.86W	200 FT	RNAV Substitution Only. VOR DOC: 25 NM/25,000 FT and 35 NM/25,000 FT in the sector 114º to 289º. DME DOC: 70 NM/25,000 FT (90 NM/ 25,000 FT in Sector R059°-089°).
VOR/DME 1.17°E (2027) 0.8°E (2023)	GWC	94Y 114.750 MHz	H24	505118.79N 0004524.25W	122 FT	VOR DOC: 20 NM/50,000 FT and 55 NM/50,000 FT in the sector 304º to 134º. DME DOC: 80 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sector R299°-044°.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/DME	IFNB	52Y 111.550 MHz	Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	511640.95N 0004625.13W	238 FT	(RWY 24) On AD. Freq paired with ILS I-FNB. Zero range is indicated at THR of Runway 24.
ILS/DME	IFRG	52Y 111.550 MHz	Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).	511630.47N 0004655.87W	239 FT	(RWY 06) On AD. Freq paired with ILS I-FRG. Zero range is indicated at THR of Runway 06.

EGLF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of the handling agent (Farnborough Airport Ops) is normally mandatory. If permission is granted to use the airport without use of the handling agent, while airside the aircraft commander is responsible for the safety of his/her passengers and other crew members. Passengers are at all times to be escorted by the aircraft commander or a crew member who is known to be competent to ensure both his/her safety and that of passengers. The commander/crew member escorting passengers is responsible for ensuring that a total ban on smoking whilst airside is strictly observed.
b) Conditions of use are available from Farnborough Airport Ops when requesting PPR.
c) The use of this airport by scheduled passenger services, inclusive tour charter flying and bulk freight flights is prohibited.
d) Operators should be aware that movements are restricted at weekends and Bank Holidays and in particular that surcharges will apply on these days in addition to landing fees (with a minimum charge applicable).
e) All aircraft will be charged an emissions levy. Contact Farnborough Airport Ops on +44 (0)1252-379002 for full details.
f) Aircraft are prohibited from departing and arriving outside the operational hours notified at EGLF AD 2.3 paragraph 1, and at any time on the 25 and 26 December.
g) Due to the operating restrictions in (f) above, inbound aircraft will be required to be at or below 4000 FT AMSL, and within 12 track miles to touchdown for the landing runway, by the relevant airport closure time minus 5 minutes. Approaches outside this criteria will not be accepted by the Aerodrome Authority.
h) All aircraft departing Farnborough must be airborne no later than the relevant aerodrome closure time. Should an aircraft intend to depart with less than 10 minutes prior to the aerodrome closing time, ATC will contact the pilot to advise of the time restriction. Aircraft requesting start up for departure less than 5 minutes prior to the aerodrome closing time will be declined by ATC. Aircraft requesting taxi for departure less than 3 minutes prior to the aerodrome closing time will be declined by ATC. Aircraft positioned on the East Apron for a Runway 24 departure may be issued start clearance provided there remains 3 minutes before the aerodrome closure and taxi clearance with 2 minutes before the aerodrome closure.
i) Flight plans naming Farnborough as the destination must not be filed until PPR is approved. Flight plans naming Farnborough as an alternate do not guarantee acceptance of diversion or granting of PPR. For short notice movements, including diversions, contact Farnborough Airport Operations on OPS channel 131.865. NOTAMs will be issued to notify when Farnborough is unavailable as an alternate.
j) Operators wishing to operate from Farnborough are required to ensure that Supplementary Flight Plan Information (Field 19 of the Flight Plan form) is submitted to Eurocontrol Integrated Flight Planning System (IFPS) for out of hours retrieval. See UK AIP ENR 1.10 Paragraphs 3.6.4 and 3.5 for details.
k) All departures from Farnborough filing FPLs to leave the IFPZ must utilise the re-addressing function available via IFPS (See IFPS Users Manual, Chapter 15).
l) West 2, West 3 and East Aprons are not available to aircraft that require to use a licensed aerodrome.
m) For environmental reasons, an instrument approach at Farnborough for the purpose of landing at an adjacent aerodrome without an instrument approach procedure is not available.
n) Only aircraft that are 8.33 kHz compliant will be accepted.
o) Engine start utilising cross bleed air is not available on the following aprons/ramps:

   i. Hangar 1 - 10 Ramp;
   ii. Tower 4 - 6 Ramp;
   iii. Terminal Ramp (except for aircraft parked on Terminal Grass).

2 GROUND MOVEMENT

a) Arriving aircraft, including helicopters, must follow ATC instructions and report marshaller in sight. All pilots are to be familiar with the Aerodrome Chart - ICAO AD 2-EGLF-2-1.

b) Parking locations referred to as Ramps by ATC delineate approximate location. Tower and Hangar Ramps are determined by the Hangar number the Ramp is outside/opposite and are referred to over the R/T as Tower x or Hangar x (where x is a number between 1 and 10 according to the aircraft parking/docking chart at AD 2-EGLF-2-2).
c) Aircraft taxiing from any ramp/apron must use minimum power until established on the taxiway centre-line. When calling for start, ramp position must be passed to ATC.
d) Due to the number of personnel and vehicles operating on the North Apron and West 1 Apron, pilots are to operate at minimum taxiing speed when approaching or transitting these areas.
e) Runway stopbars are active during operational hours. Standard stopbar procedures apply.
f) Jet Aircraft under power not permitted to use West 2 and West 3 Aprons.
g) Pilots are to notify ATC prior to start-up if ground marshalling assistance is required for departure.
h) All Aircraft parking in front of the terminal building will be marshalled nose in. All handling services will be carried out in this position. When ready for departure, all aircraft will be pushed back from the terminal to allow self manoeuvre for departure. Engine start-up will not be approved until push back is complete. Pilots must not call ATC for engine start until the push back crew have confirmed it is safe to do so.
i) Compass Swing procedures are permitted at the designated site only, located on South 2 Apron. Aircraft requesting to reposition to the Compass Swing Base must receive a suitable clearance from ATC.
j) Taxiway Yankee between South 1 Apron and South 2 Apron is not available to aircraft.

3 CAT II/III OPERATIONS

a) Farnborough is not equipped for Cat II/III operations, however Low Visibility Procedures are used to protect Cat I operations.
b) Low visibility procedures will commence when the met visibility/IRVR is 1500 M or below and/or cloud ceiling is 200 FT or below. Pilots of arriving aircraft should delay their 'runway vacated' call until they are clear of the coded taxiway centre-line lights.
c) During low visibility operations except where the aircraft operator has a lower state authorised take-off minima, the Aerodrome Authority cannot approve public transport departures in RVR conditions of less than 400 M. Operators of non public transport aircraft are advised that there is no runway centre-line lighting and that a departure in RVR conditions of less than 400 M is at the pilot's discretion.

4 WARNINGS

a) Danger Areas EGD132, EGD133A and EGD133B are within 3 NM of the Eastern aerodrome boundary. On approach to Runway 24, the 3.5° GP is mandatory both for noise abatement purposes and to ensure safe clearance above Danger Areas EGD133A and EGD133B.
b) Traffic carrying out instrument approaches to Runway 27 at Odiham will pass approximately 2.5 NM South of Farnborough aerodrome at 2000 FT QNH or lower.
c) Turns onto base leg for Runway 06 will be given in close proximity to the edge of Controlled Airspace and intense Gliding Activity (operating outside of controlled airspace). Crews should respond to ATC turn instructions without delay, maintaining an expeditious rate of turn.
d) Low level turbulence and windshear may be encountered when the wind is from 190° to 240° at 15 KT or more within 0.5 NM from touchdown on Runway 24 (from crossing the main road to crossing Runway 24 threshold markings).
e) Aircraft under tow at night may not be displaying Nav/Anti-collision lights.
f) Where the taxiway width is less than the paved surface width, the portions outside the taxiway markings are not maintained and should not be used by aircraft.
g) Bird scaring takes place regularly including the use of pyrotechnics. Large birds including geese and heron are often seen on the aerodrome.
h) Oakhanger High Intensity Radio Transmission Area (HIRTA) is situated 8 NM south west of Farnborough.
i) Fairoaks Airport is situated 9 NM north east of Farnborough; Fairoaks departures may trigger TCAS warnings for Runway 24 instrument approach traffic.
j) Although Taxiway C has the appearance of a rapid exit turn-off, it is not configured as such, and pilots are reminded of the need for an acute left turn at the end of Taxiway C to access Taxiway B and North Apron.
k) Below FL 65 aircraft arriving/departing via the ATS route network can expect to operate within Class E airspace between ASLAP and 3 NM west of HAZEL/within 7.5 NM of GWC. ATC will not provide notification to pilots of entry to or exit from Class E airspace when the aircraft is transitioning from a higher classification of airspace.

5 HELICOPTER OPERATIONS

a) Rotors running refuelling is not permitted.

6 USE OF RUNWAYS

a) Runway 06/24 restrictions:

   i. Practice engine failures after take-off are not permitted on Runway 06.

b) Runway Occupancy

   i. **Departures**. Whenever possible, cockpit checks should be completed prior to entering the runway and any checks requiring completion on the runway should be kept to a minimum. Pilots unable to comply with this requirement must inform ATC prior to lining up for departure.

7 TRAINING

a) The use of the aerodrome for training is generally restricted to home based aircraft; however, instrument training approaches by non-jet/ turboprop fixed wing aircraft with a MTWA not exceeding 5700 KG may be accepted Mon-Fri 1000-1600 (0900-1500), subject to the

approval of Farnborough ATC. All other requests for instrument or visual flying training are subject to prior approval by Farnborough Airport Ops.

EGLF AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) Farnborough is located within a noise sensitive area and is subject to Local Authority Planning Requirements which impose a number of environmental constraints. Pilots are to ensure that their aircraft are operated in a manner likely to cause the least disturbance in the areas surrounding the aerodrome. A noise track monitoring system is in operation.
b) Only those aircraft meeting ICAO Chapter 4 criteria will be accepted. Contact Airport Director on +44 (0)1252-379007.
c) Pilots are to adhere to the published noise abatement procedures at all times unless deviation is required to the extent necessary for avoiding immediate danger or to comply with ATC instructions.

2 GROUND RUNNING OF ENGINES

a) The operation of APUs is not permitted between Mon-Fri 2230-0630 (2130-0530), excluding PH, and Sat, Sun and PH 2030-0730 (1930-0630). At all other times APUs can be operated for a maximum one hour after arrival on apron and one hour prior to departure
b) Ground running of engines at idle power may take place on aprons during airport operational hours, subject to ATC approval. Ground running of engines above idle power may only take place Mon-Fri 0900-1800 (0800-1700) excluding PH. At weekends and PH, ground running of engines above idle power may only take place between the hours of 1000-1800 (0900-1700) and is restricted to essential maintenance work only. All engine ground runs above idle will be carried out on Taxiway Zulu. ATC must be notified prior to commencement and on cessation of all engine ground runs. In addition, request for engine ground runs at weekends and PH must be made to Farnborough Airport Ops via email.

3 DEPARTURES

a) General.

   i. All departures are to use best rate of climb until at or above 3000 FT QNH. If the initial departure clearance involves levelling off below 3000 FT QNH, power settings used must not result in excessive noise levels at points on the ground underneath the flightpath, especially when climb is recommenced.
   ii. Standard Instrument Departures as detailed in AD 2-EGLF-6-1 to AD 2-EGLF-6-2 comply with required noise preferential routings.
   iii. Noise preferential routings are compatible with ATC requirements for those aircraft not departing on a Standard Instrument Departure. The tracks are to be flown by all departing jet/turboprop aircraft, and by all other aircraft of more than 2730 KG MTWA, unless otherwise instructed by ATC or unless deviations are required in the interests of safety.
   iv. Noise preferential routings may be cancelled by ATC using the phrase ‘cancel noise abatement’.

b) Noise Preferential Routings (NPRs) – Runway 06.

   i. (All directions) Climb straight ahead to 2.4 DME, then turn on track or as instructed by ATC.

c) Noise Preferential Routings (NPRs) – Runway 24

   i. North - Climb straight ahead to 3.4 DME, then turn on track or as instructed by ATC.
   ii. South - Climb straight ahead; after passing 1200 FT QNH fly ATC issued Radar heading. In the event an aircraft is departing without an ATC issued Radar heading (for example during Radar being unavailable) this is amended to climb straight ahead; at 2.4 DME or 1200 FT AMSL (whichever is sooner) turn left onto track 220° M or as directed by ATC. This is referred to by ATC as ‘Noise Preferential Route South’. Crews should note that a **prompt** turn at 1200 FT QNH is essential in order to remain outside the Odiham ATZ and areas of gliding activity.

4 ARRIVALS

a) ILS approaches are mandatory except when a non-precision or visual approach is provided or authorised by ATC. The use of the ILS glidepath, if radiating, is recommended for all approaches.
b) All aircraft approaching to land or go-around from a visual or non-precision approach shall establish on final approach not below 1250 FT QNH (1000 FT AAL) and at not less than 3 NM from touchdown; thereafter aircraft shall follow a descent path which will not result in the aircraft being at any time lower than a 3.5° glidepath as indicated by the PAPIs or ILS unless authorised by Farnborough ATC.
c) Aircraft commanders are requested to minimise noise disturbance in the areas overflown during final approach by conforming to low power, low drag procedures at all times. Additionally the requirements in AD 2.22 Flight Procedures, paragraph 1(a) must be complied with.
d) To minimise disturbance in areas adjacent to the aerodrome, commanders of aircraft are requested to avoid the use of reverse thrust at all times, consistent with the safe operation of the aircraft. Where the use of reverse thrust is essential, the use of idle reverse thrust should be used in preference.

EGLF AD 2.22 FLIGHT PROCEDURES

The following procedures may be modified for use during Farnborough International Ltd Airshow periods and will be notified by AIP Supplement and/or NOTAM.

1 PROCEDURES FOR IFR FLIGHTS VIA THE ATS ROUTE NETWORK TO AND FROM FARNBOROUGH

a) Procedures For Inbound Aircraft

i. Aircraft inbound to Farnborough via the ATS Route Network that are compliant with and equipped to the RNAV 1 navigation standard must follow the appropriate Standard Arrival Routes (STAR) terminating at VEXUB as shown at AD 2-EGLF-7-1 to 7-2 (CPT 1V, KATHY 1V, ELDAX 1V & SOKDU 1V). Planning must be in accordance with the UK Standard Route Document (SRD) and UK Route Availability Document (RAD).
ii. Aircraft inbound to Farnborough via the ATS Route Network that are compliant with and equipped to the RNAV 5 navigation standard must follow the appropriate Standard Arrival Routes (STAR) terminating at PEPIS as shown at AD 2-EGLF-7-3 to 7-4 (CPT 1P, ABSAV 1P & NOTGI 1P).
iii. Below FL 65 aircraft arriving/departing via the ATS route network can expect to operate within Class E airspace between ASLAP and 3 NM West of HAZEL/within 7.5 NM of GWC. ATC will not provide notification to pilots of entry to or exit from Class E airspace when the aircraft is transitioning from a higher classification of airspace.
iv. Instrument Approach Procedures are detailed at AD 2-EGLF-8-1 to 8-9.
v. Nominal glide path 3.5° mandatory for ALL approaches including non-precision and visual.
vi. **Loss of Communication Procedures**

1. Aircraft inbound to Farnborough from the ATS route network issued with a STAR terminating at PEPIS (CPT 1P, ABSAV 1P, NOTGI 1P), should route to VEXUB via Initial Approach Procedures in AD 2-EGLF-7-9 RWY 06 and in AD 2-EGLF-7-10 RWY 24. Once at VEXUB, aircraft shall take up the hold for 10 minutes prior to carrying out the appropriate Instrument Approach Procedure as detailed in AD 2-EGLF 8-1, 8-2, 8-4, 8-5, 8-6 and 8-7.
2. Aircraft inbound to Farnborough not via the ATS Route Network should route via VEXUB, to be level 3000 FT ALT at VEXUB. Once at VEXUB, aircraft shall take up the hold for 10 minutes prior to carrying out the appropriate Instrument Approach Procedure as detailed in AD 2-EGLF 8-1, 8-2, 8-4, 8-5, 8-6 and 8-7.
3. Aircraft with a loss of communications in the missed approach phase should proceed to the VEXUB hold at 3000 FT. Once at VEXUB, aircraft shall take up the hold for 10 minutes prior to carrying out the appropriate Instrument Approach Procedure as detailed in AD 2-EGLF 8-1, 8-2, 8-4, 8-5, 8-6 and 8-7.
4. IFR flights are expected to carry out the full Instrument Approach Procedure and not proceed visually.

vii. **Loss of Radar at Farnborough**

Due to the complex nature of the airspace in the vicinity of Farnborough, the use of Instrument Approach Procedures is dependent upon the availability of a Radar Service or ILS DME. In the event of Radar failure at Farnborough flights should proceed as directed by ATC.

b) Procedures For Outbound Aircraft

i. Standard Instrument Departure Procedures are detailed at AD 2-EGLF-6-1 to AD 2-EGLF-6-2.
ii. Departure Speed Restriction:
In order to optimise the departure flow and assist in the separation between successive departing aircraft a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase 'No ATC Speed Restriction'. Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation.
iii. If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation.
iv. Below FL 65 aircraft arriving/departing via the ATS route network can expect to operate within Class E airspace between ASLAP and 3 NM west of HAZEL/within 7.5 NM of GWC. ATC will not provide notification to pilots of entry to or exit from Class E airspace when the aircraft is transitioning from a higher classification of airspace.

2 PROCEDURES FOR IFR FLIGHTS VIA THE ATS ROUTE NETWORK TO AND FROM DUNSFOLD, LASHAM AND ODIHAM

a) In order to provide improved ATC handling of flights inbound to or outbound from these aerodromes via the ATS Route network a system of standard routes has been established and these are published in the UK Standard Route Document (SRD) which can be found here:

http://www.nats.aero/ais.

b) Warnings

i. Due to intense gliding activity pilots should avoid flying within 2.5 NM of Lasham aerodrome below 5000 FT ALT. When available Farnborough Radar will provide navigational assistance as necessary.
ii. Pilots are reminded of the proximity of Oakhanger High Intensity Radio Transmission Area (HIRTA) (see UK AIP ENR 5.3) and Danger Areas in the vicinity.
iii. Below FL 65 aircraft arriving/departing via the ATS route network can expect to operate within Class E airspace between ASLAP and 3 NM west of HAZEL/within 7.5 NM of GWC. ATC will not provide notification to pilots of entry to or exit from Class E airspace when the aircraft is transitioning from a higher classification of airspace.

c) Flight Plans

i. Pilots wishing to fly via the ATS Route Network and who are inbound to or departing from Dunsfold, Lasham or Odiham are to flight plan via the appropriate routes detailed in paras (d)(i) and (e)(i).

d) Inbound Aircraft

i. IFR Arrivals

Standard Arrival Routes (STARs) for aircraft inbound from the UK ATS Route Network are detailed at AD 2-EGLF-7-1 to 7-4.

Note: *See also UK Standard Route Document (available online from the NATS/AIS website: www.nats.aero/ais).*

For loss of Communication purposes the Clearance Limit is either PEPIS or VEXUB dependent on the STAR issued.

ii. Inbound Procedures

1. After leaving **controlled airspace** pilots will be provided with a service outside controlled airspace in accordance with UK FIS by Farnborough Radar during the notified operating hours shown at AD 2.18. A contact frequency will be given by the appropriate ATSU.
2. When Farnborough Radar is closed or unable to provide a service, pilots will be instructed to leave controlled airspace at an appropriate point and are then to proceed to their destination aerodrome by a route which remains clear of controlled airspace.

iii. **Loss of Communication Procedures (inbound aircraft)**

1. Aircraft should descend to leave controlled airspace and proceed to the destination aerodrome in accordance with the Basic Loss of Communication Procedures detailed at ENR 1.1 paragraph 3.4.

e) Departing Aircraft

i. Routes

1. A joining clearance is to be requested for the first ATS Significant Point in the routes detailed in the UK SRD. **These routes are not assessed for obstacle clearance and do not constitute Standard Instrument Departure procedures.**
2. Pilots who wish to join the ATS Route Network at points other than CPT, GWC or HAZEL should flight plan to join the ATS Route Network when clear of the London TMA.

Note: *Pilots should be aware that the provision of ATS may be limited for any flight outside CAS. This is due to the large number of locations from which extensive VFR/IFR operations take place in this constrained area.*

Pilots should therefore take into account a potential lack of available ATS outside CAS and anticipate the extended time that may be required to operate outside CAS before any joining clearance can be provided.

Additionally, requests made to LTC Swanwick to join CAS prior to the boundary of the London TMA may be declined due to sector workload and it should also be noted that below FL 70 a Basic Service is the only ATS available from LTC Swanwick TMA controllers.

Departure to	Via	Route	Notes
North	CPT	As per UK SRD	Includes departures to EGGW, EGSC, EGSG, EGSS and EGSU
Northeast			
West			
Northwest			
South	GWC	As per UK SRD	Includes departures to EGKA, EGKB, EGKK, EGKR, EGLC and EGMC
East	HAZEL	As per UK SRD	Includes departures to EGLD, EGLL and EGWU
Southeast			
Southwest			

ii. Procedures

1. **Pilots are to ensure that they have received and acknowledged a joining clearance before entering controlled airspace.**

2. The ATSU at the departure aerodrome will notify the pending departure to London Terminal Control (Swanwick) (LTC Swanwick)). Clearance to enter controlled airspace may not be passed to the aircraft prior to departure.
3. The ATSU at the departure aerodrome will co-ordinate the departure with Farnborough ATC.
4. Farnborough ATC will provide radar services as appropriate and co-ordinate entry into the London TMA . The appropriate 'Farnborough Radar' frequency is 134.355 MHz.
5. If Farnborough Radar is closed or is unable to provide a radar service outside controlled airspace the ATSU at the departure aerodrome will transfer the aircraft directly to the appropriate London Terminal Control Sector and the pilot must request clearance to join controlled airspace. The appropriate 'London Control' frequencies are: 134.125 MHz for routes via CPT and SAM, and133.180 MHz for routes via GWC.
6. Pilots are reminded of the need to comply with any Air Traffic Flow Management measures in force at the time.

iii. Loss of Communication Procedures (outbound aircraft)

1. Pilots should adopt the Loss of Communication Procedures detailed at ENR 1.1, paragraph 3.4.

Flights which have not received an ATC clearance to enter controlled airspace should not enter controlled airspace unless an overriding safety reason compels entry.

3 LOCAL TRAFFIC PROCEDURES

a) Visual Circuit Procedures

i. Compliance with the Noise Abatement Requirements at AD 2.21 para (d) is mandatory for all aircraft.
ii. All circuits on Runway 06/24 will be to the south of the aerodrome (ie Runway 06, right hand circuits; Runway 24, left hand circuits).
iii. Aircraft over 2730 KG MTWA: minimum altitude 1700 FT AMSL (1500 FT AGL) until turning onto base leg.
iv. Aircraft less than 2730 KG MTWA: minimum altitude 1200 FT AMSL (1000 FT AGL).
v. Pilots must avoid overflying the congested area 2 NM west of the aerodrome below 1700 FT ALT unless specifically authorised by ATC.

b) Departing Traffic

Noise abatement procedures notified in AD 2.21 apply to all departures both IFR and VFR.

i. VFR Departures

VFR departures are permitted however, ATC may issue a required routing or assigned initial heading to avoid noise sensitive areas and other aerodromes. The restriction notified in 'Visual Circuit Procedures' para (v) above must be complied with.

c) Arriving Traffic

i. IFR Arrivals
STARs for aircraft inbound from the UK ATS Route network are detailed at AD 2-EGLF-7-1, 7-2, 7-3 etc.
ii. See section 1 a) for information on Procedures for Inbound Aircraft.
iii. VFR Arrivals

VFR arrivals will be given an appropriate clearance to join controlled airspace pertinent to the prevailing traffic conditions and runway in use.

4 HELICOPTER ARRIVAL AND DEPARTURE PROCEDURES

Helicopters are to be operated in accordance with the British Helicopter Advisory Board (BHAB) code of conduct at all times when operating to or from Farnborough Airport.

a) **Arrival Procedures**

On first contact pilots shall advise ATC as to whether they require an IFR or a VFR approach. Due to the noise sensitivity of the areas surrounding Farnborough, the preferred approach for helicopters during daylight hours is VFR; however instrument approaches are available on request.

i. **IFR**

Standard instrument approach to Runway 06 or 24.

ii. **VFR**

1. Visual approaches to Runway 06 or 24 are only permitted when flown in accordance with UK AIP EGLF AD 2.21 - NOISE ABATEMENT PROCEDURES, Section 4 Arrivals. Delays may occur when ILS approaches are being carried out.
2. To minimise delays and noise disturbance helicopter routing to or from Farnborough, VFR, should follow one of four established routes:

aa. **WEST ROUTE**: From/To the West:
Join and follow the Basingstoke - Woking railway line to 'North Gate', then route towards the Northern aerodrome boundary via Southwood Country Park avoiding built up areas (See Note 1).

bb. **NORTH ROUTE:** From/To the North:
Join and follow the M3 until 'North Gate', then route towards the Northern aerodrome boundary via Southwood Country Park avoiding the built up areas (See Note 1).

cc. **EAST ROUTE:** From/To the East:
Route from Worplesdon Railway Station to Longerend Farm on the A324 and then to Surprise Hill. From Surprise Hill route west to join the Basingstoke Canal where it passes under the B3411 and railway bridges (Two Bridges). Follow the canal to the southern end of Queens Parade, then towards the Queens Roundabout for Runway 24 or towards the southern aerodrome boundary via the Army Golf Course for Runway 06 and Heli Yankee (See Notes 2 and 3).

dd. **SOUTH ROUTE:** From/To the South and Southwest:
Route to the A31/A331 junction (The Junction) avoiding the built up areas around Farnham. Follow the A331 to join the Basingstoke canal where it crosses over the dual carriageway then to the southern edge of Queens parade and then towards the Queens Roundabout for Runway 24 or towards the southern aerodrome boundary via the Army Golf Course for Runway 06 or Heli Yankee (See Notes 2 and 3).

Note 1: *'North Gate' is the unpopulated area between Fleet Pond VRP and M3 Junction 4A. Helicopters are not permitted to overfly the terminal building and must maintain at least 1700 FT QNH if they require to fly over any part of the QinetiQ site, Southwood or Fleet.*

Note 2: *The section of the East Route between Longerend Farm and Surprise Hill comes close to the southern edge of EGD132. Normally it is active to 500 FT AGL and it is the pilot's responsibility to remain outside the Danger Area. If EGD132 is notified as active above this level then this route will be closed by NOTAM. Pilots will be instructed to either follow the Woking to Basingstoke railway line to join via North gate, or to use the South Route, depending on traffic.*

Note 3: *Helicopters must avoid overflying all built up areas below 1700 FT AMSL unless instructed by ATC. Pilots may be instructed to route to Heli Yankee to hold on the ground if there is fixed-wing traffic arriving or departing.*

3. Two helicopter aiming points are established at Farnborough Aerodrome:

   a) Heli Foxtrot, that part of 'F' taxiway between F3 and the entrance to West 2 apron;
   b) Heli Yankee, the centre of South 2 apron.

   Pilots should avoid overflying aircraft parked on South 1 apron. Helicopter Aiming Points are located on areas that are accessed by vehicles under a 'free ranging' procedure. Pilots to be aware of possible vehicle activity. Landing clearance from ATC will be in the form 'Land at your discretion'.

b) **Departure Procedures**

Departures must take place from Runway 06/24, Heli Foxtrot or Heli Yankee

i. **IFR**

1. ATC will allocate a transponder code, along with an assigned heading and altitude, which will ensure deconfliction from other traffic and compliance with noise abatement procedures.

ii. **VFR**

1. Outbound routings must comply with noise abatement procedures, and are the reverse of the inbound routes

c) **Navigation Points**

The visual reference points used on the routes:

i. Bagshot
ii. Hook Railway Station
iii. Fleet Pond
iv. Worplesdon Railway Station

The waypoints used on the routes:

M3 Junction 4A	511812N 0004801W
Southwood Country Park	511713N 0004720W
Longerend Farm	511541N 0004049W
Surprise Hill	511523N 0004252W
Two Bridges	511523N 0004319W
The Junction	511343N 0004430W
Queens Parade	511547N 0004542W
Queens Roundabout	511624N 0004526W

The helicopter aiming points on the airfield:

Heli Foxtrot	511631N 0004703W
Heli Yankee	511622N 0004631W

5 VISUAL REFERENCE POINTS (VRP)

a) Pilots are reminded of the close proximity of busy minor aerodromes, ATZs, intense gliding activity and Danger Areas in the airspace beneath the London TMA. Pilots are strongly advised to request a Lower Airspace Radar Service from Farnborough ATC when operating in the vicinity of Farnborough aerodrome. Pilots of Police and Ambulance helicopters operating within 20 NM of Farnborough should contact Farnborough Approach on 134.355 MHz during the notified hours of that frequency.
b) Eastbound helicopters intending to join Helicopter Route H3 in the London Control Zone should use the following line features: railway line then the M3 Motorway to Bagshot VRP.
c) Pilots are advised that the VRP Bagshot is located approximately 1 NM south-east of Bagshot Mast.
d) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

6 VFR AND/OR SVFR AIRSPACE SHARING ARRANGEMENTS

a) Intense VFR glider/motorglider activity takes place during daylight hours in the vicinity of RAF Odiham up to 4000 FT AMSL, within the area bounded by:
510854.41N 0005646.07W - 511143.02N 0005850.73W -
thence clockwise by the arc of a circle radius 4.7168 NM centred on
511255.8135N 0005135.9280W -
511705.24N 0005507.85W - 511434.5868N 0005329.8848W -
thence clockwise by the arc of a circle radius 2 NM centred on
511403.09N 0005634.11W -
511313.8667N 0005340.0613W - 510854.41N 0005646.07W.
See diagram at AD 2-EGLF-4-2. Departing aircraft to be aware this area is 1 NM NW of the nominal track of the GWC 2F and HAZEL 2F SIDs.

b) Operations at Blackbushe are carried out within a portion of Farnborough CTR1 by means of a Local Flying Area. This area is defined as:
511738.23N 0005214.70W
thence clockwise by the arc of a circle radius 2 NM centred on
511926.00N 0005051.00W -
511751.5673N 0005248.7658W - 511934.5146N 0004740.1885W -
thence clockwise by the arc of a circle radius 2 NM centred on
511926.00N 0005051.00W -
511805.75N 0004828.90W - 511801.30N 0004919.04W -
511757.72N 0004953.84W - 511752.62N 0005037.73W -
511746.42N 0005120.47W - 511738.23N 0005214.70W.
(Also as that part of the Blackbushe ATZ that is coincident with Farnborough CTR1), from the surface to 2000 FT AMSL and is shown on diagram at AD 2-EGLF-4-2. Operations may be VFR or SVFR whilst in communication with the Blackbushe ATSU promulgated frequency, and those aircraft operating SVFR will not be required to be separated from one another. SVFR operations will be regarded as separated from other SVFR operations within the Farnborough CTR1 and CTR2 remaining south of the M3 motorway or East of the A331 Dual Carriageway and IFR operations established on the ILS for Runway 06/24 and departing on a GWC 2L/F or HAZEL 2L/F SIDs.

7 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the Farnborough LARS West area of responsibility, but intending to remain outside Class A to D airspace within the area bounded by the following coordinates and maintaining a listening watch only on Farnborough LARS West frequency, 125.250 MHz, are encouraged to select SSR code 4572.

514352N 0010616W - thence anti-clockwise by the arc of a circle radius 30 NM centred on 511631N 0004639W to
511218N 0013355W - 511031N 0012021W -
510648N 0010232W - 505836N 0005856W -
505302N 0005800W - 504932N 0010718W -
thence anti-clockwise by the arc of a circle radius 30 NM centred on 511631N 0004639W to
504754N 0003238W - 505832N 0003428W -
510314N 0003730W - 511422N 0003506W -
512335N 0005516W - 513444N 0005508W -
514015N 0005348W - 514352N 0010616W.

b) Selection of 4572 does not imply the receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Class A to D airspace at all times.
c) Pilots of aircraft displaying 4572 Frequency Monitoring Code must operate VFR within Class E airspace applicable to Farnborough CTA 8 and 9.
d) Whilst squawking 4572, pilots should be aware that Farnborough Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
e) When a pilot ceases to maintain a listening watch, code 4572 shall be deselected.

EGLF AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGLF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGLF-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGLF-2-2
HELICOPTER VFR ARRIVAL/DEPARTURE ROUTES
AD 2.EGLF-4-1
CONTROL ZONE AND CONTROL AREA CHART
AD 2.EGLF-4-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGLF-5-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 06/24 GWC 2L 2F - ICAO
AD 2.EGLF-6-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 06/24 HAZEL 2L 2F - ICAO
AD 2.EGLF-6-2
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 06 GWC 2L RWY 24 GWC 2F
AD 2.EGLF-6-3
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 06 HAZEL 2L RWY 24 HAZEL 2F
AD 2.EGLF-6-4
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) CPT 1V - ICAO
AD 2.EGLF-7-1
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) KATHY 1V ELDAX 1V SOKDU 1V - ICAO
AD 2.EGLF-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) CPT 1P - ICAO
AD 2.EGLF-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ABSAV 1P NOTGI 1P - ICAO
AD 2.EGLF-7-4
STANDARD INSTRUMENT ARRIVAL CODING TABLES CPT 1V KATHY 1V
AD 2.EGLF-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES ELDAX 1V SOKDU 1V
AD 2.EGLF-7-6
STANDARD INSTRUMENT ARRIVAL CODING TABLES ABSAV 1P CPT 1P NOTGI 1P
AD 2.EGLF-7-7
RNAV HOLD CODING TABLE PEPIS VEXUB RUDMO
AD 2.EGLF-7-8
INITIAL APPROACH PROCEDURE ILS/DME LOC/DME RWY 06 via PEPIS (RNAV SUBSTITUTION ONLY)
AD 2.EGLF-7-9
INITIAL APPROACH PROCEDURE ILS/DME LOC/DME RWY 24 via PEPIS (RNAV SUBSTITUTION ONLY)
AD 2.EGLF-7-10
INSTRUMENT APPROACH CHART ILS/DME RWY 06 - ICAO
AD 2.EGLF-8-1
INSTRUMENT APPROACH CHART LOC/DME RWY 06 - ICAO
AD 2.EGLF-8-2
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 06 - ICAO
AD 2.EGLF-8-3
INSTRUMENT APPROACH CHART ILS/DME Y RWY 24 - ICAO
AD 2.EGLF-8-4
INSTRUMENT APPROACH CHART ILS/DME Z RWY 24 - ICAO
AD 2.EGLF-8-5
INSTRUMENT APPROACH CHART LOC/DME Y RWY 24 - ICAO
AD 2.EGLF-8-6
INSTRUMENT APPROACH CHART LOC/DME Z RWY 24 - ICAO
AD 2.EGLF-8-7
INSTRUMENT APPROACH CHART SRA RTR 2NM Y RWY 24 - ICAO

AD 2.EGLF-8-8
INSTRUMENT APPROACH CHART SRA RTR 2NM Z RWY 24 - ICAO
AD 2.EGLF-8-9

EGLF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

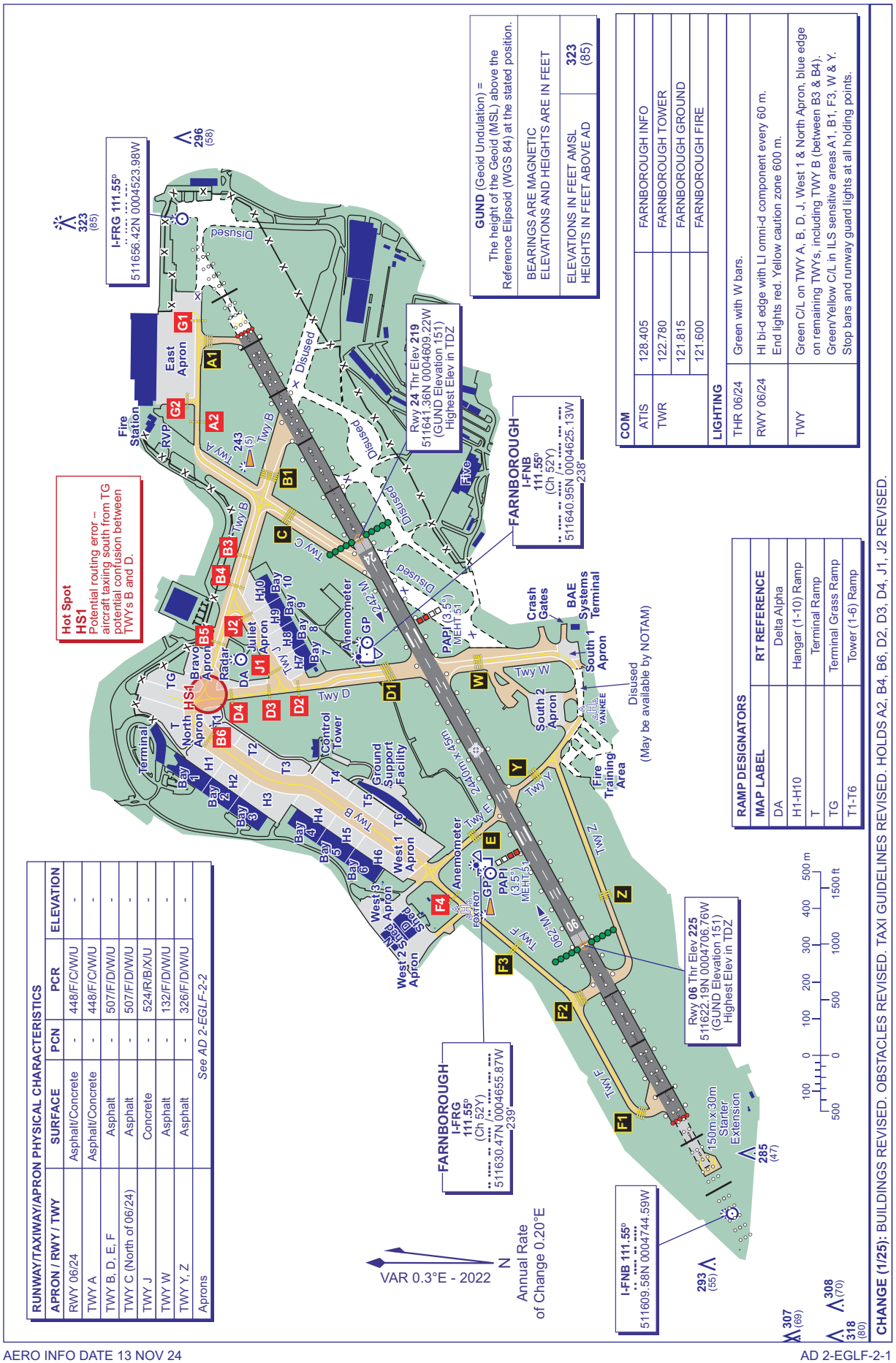
Not applicable

AERODROME CHART - ICAO

FARNBOROUGH EGLF

ARP 511631N 0004639W

AD ELEV 238FT

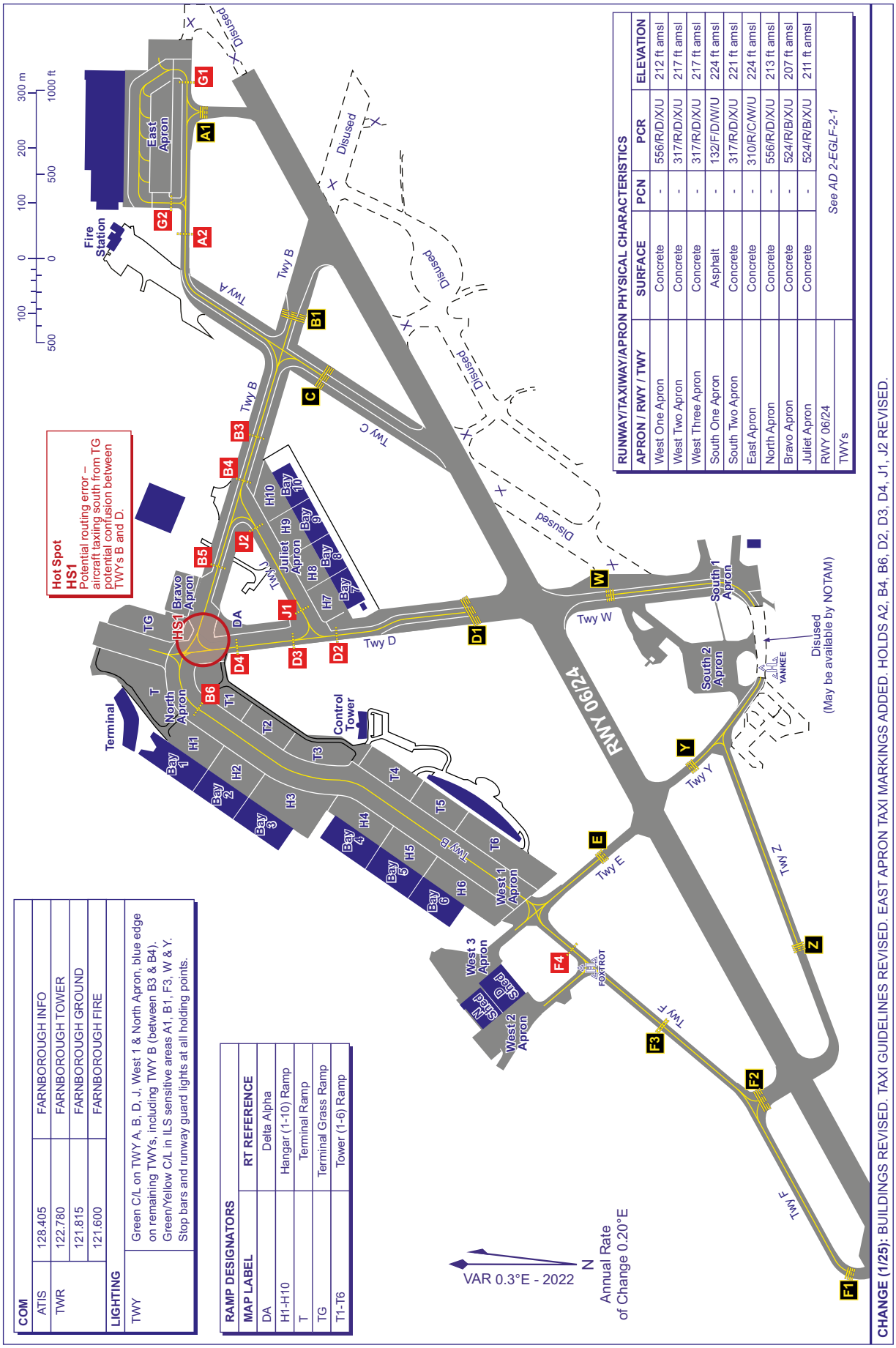


AIRCRAFT PARKING/DOCKING CHART - ICAO

FARNBOROUGH EGLF

ARP 511631N 0004639W

AD ELEV 238FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS				
APRON / RWY / TWY	SURFACE	PCN	PCR	ELEVATION
West One Apron	Concrete	-	556/R/D/X/U	212 ft amsl
West Two Apron	Concrete	-	317/R/D/X/U	217 ft amsl
West Three Apron	Concrete	-	317/R/D/X/U	217 ft amsl
South One Apron	Asphalt	-	132/F/D/W/U	224 ft amsl
South Two Apron	Concrete	-	317/R/D/X/U	221 ft amsl
East Apron	Concrete	-	310/R/C/W/U	224 ft amsl
North Apron	Concrete	-	556/R/D/X/U	213 ft amsl
Bravo Apron	Concrete	-	524/R/B/X/U	207 ft amsl
Juliet Apron	Concrete	-	524/R/B/X/U	211 ft amsl
RWY 06/24	See AD 2-EGLF-2-1			
TWYs				

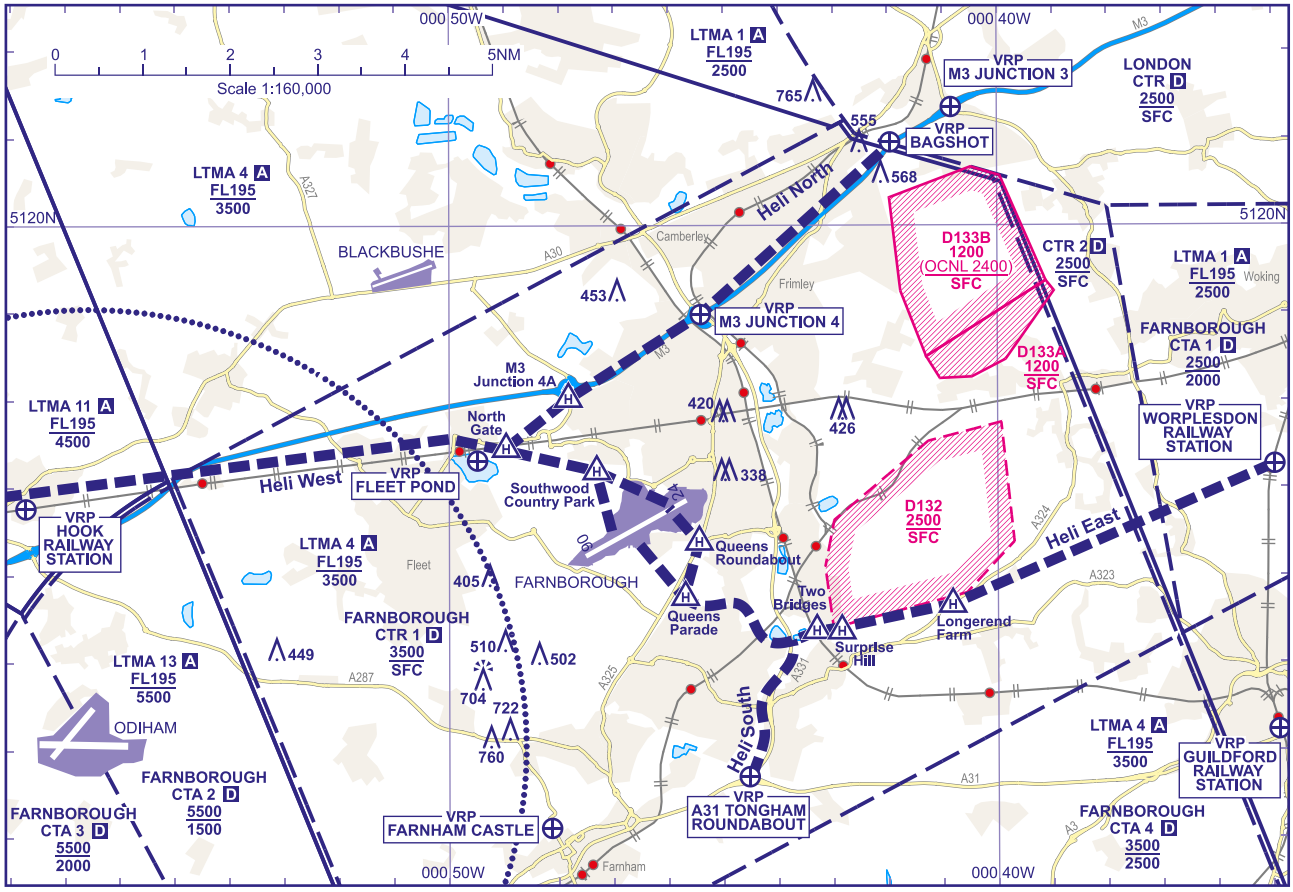
COM		
ATIS	128.405	FARNBOROUGH INFO
TWR	122.780	FARNBOROUGH TOWER
	121.815	FARNBOROUGH GROUND
	121.600	FARNBOROUGH FIRE
LIGHTING		
TWY	Green C/L on TWY A, B, D, J, West 1 & North Apron, blue edge on remaining TWYs, including TWY B (between B3 & B4). Green/Yellow C/L in ILS sensitive areas A1, B1, F3, W & Y. Stop bars and runway guard lights at all holding points.	

RAMP DESIGNATORS	
MAP LABEL	RT REFERENCE
DA	Delta Alpha
H1-H10	Hangar (1-10) Ramp
T	Terminal Ramp
TG	Terminal Grass Ramp
T1-T6	Tower (1-6) Ramp

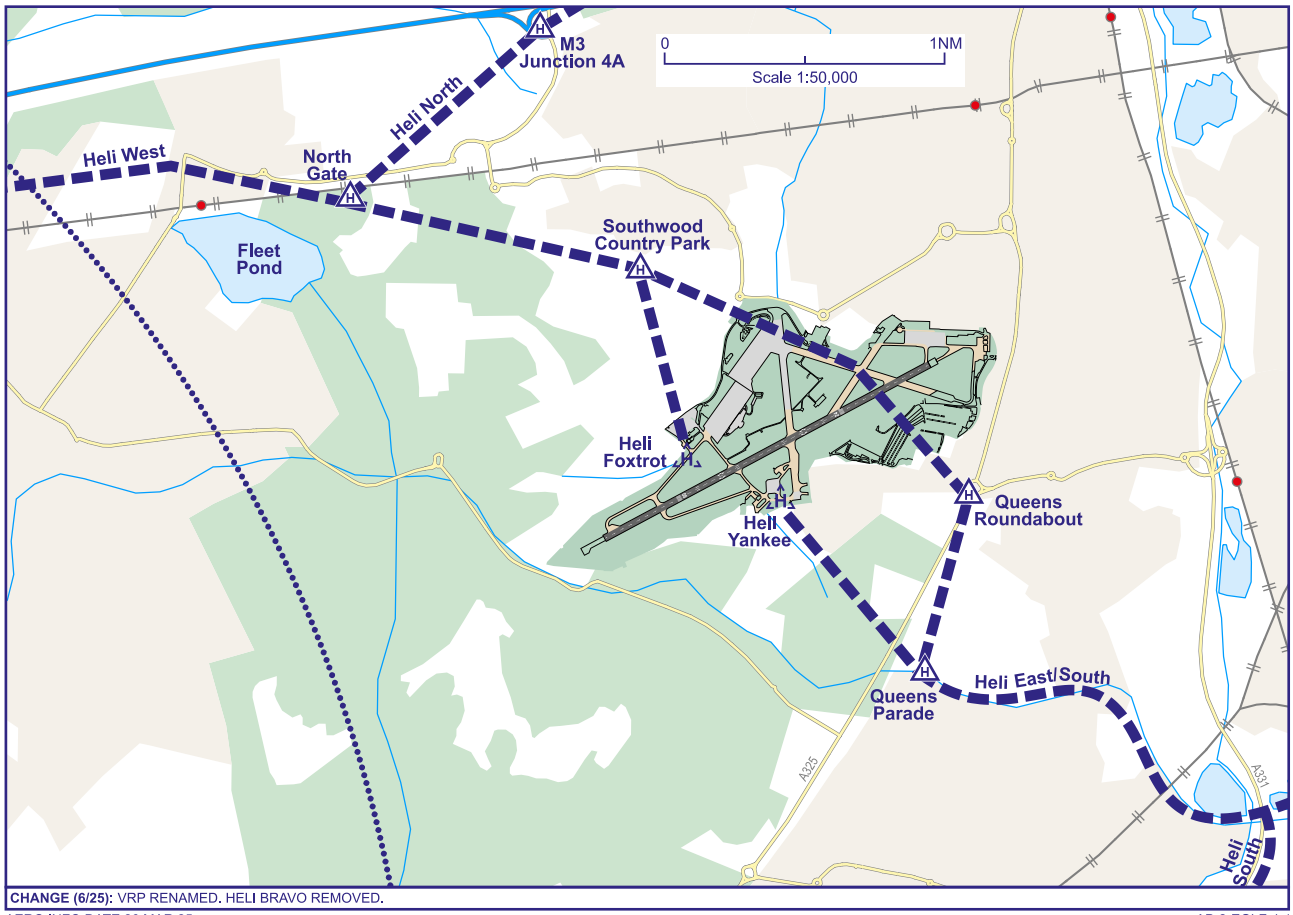
CHANGE (1/25): BUILDINGS REVISED. TAXI GUIDELINES REVISED. EAST APRON TAXI MARKINGS ADDED. HOLDS A2, B4, B6, D2, D3, D4, J1, J2 REVISED.

HELICOPTER VFR ARRIVAL/DEPARTURE ROUTES

FARNBOROUGH



DETAILED MAP OF FINAL/INITIAL STAGES

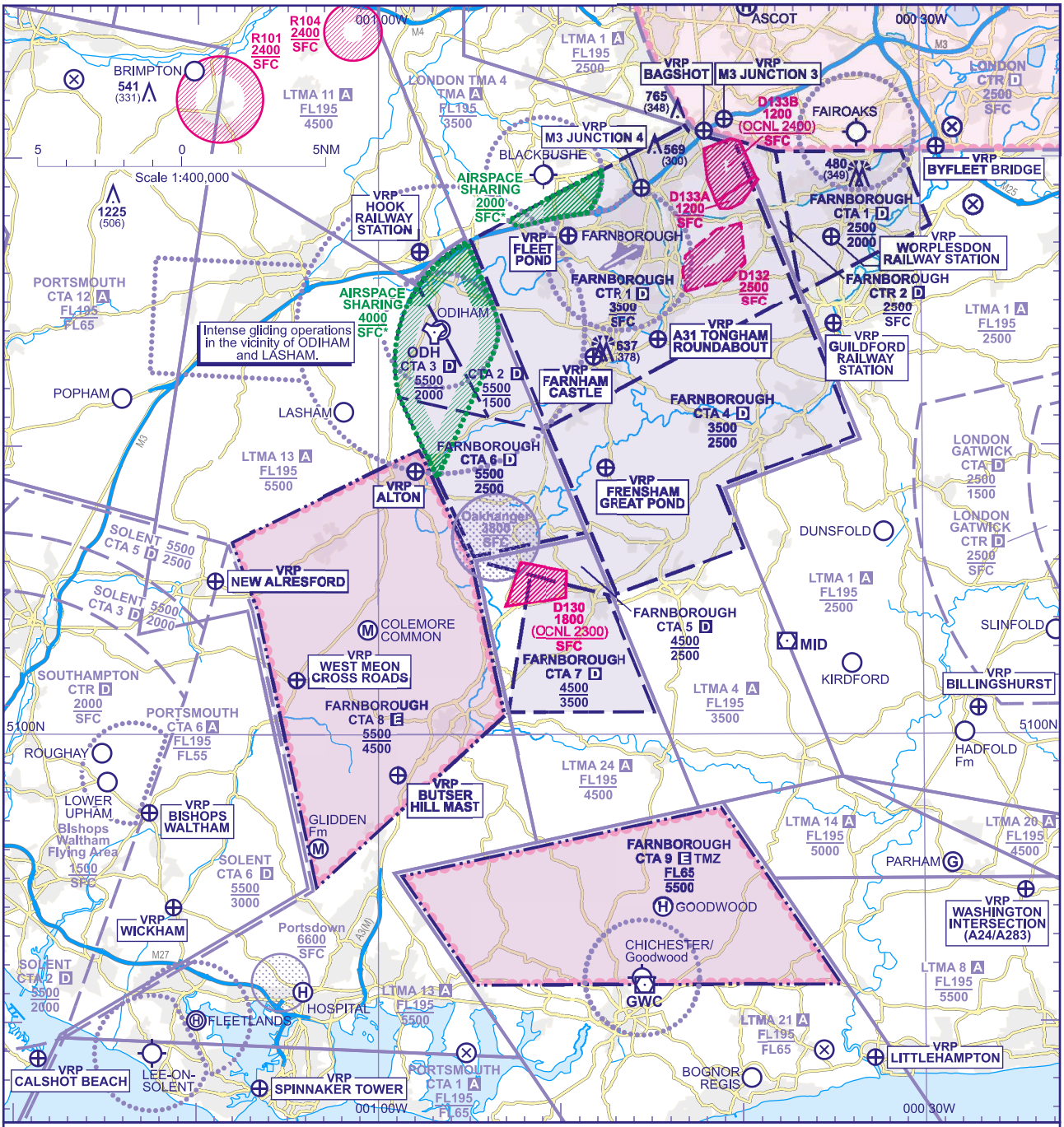


CHANGE (6/25): VRP RENAMED. HELI BRAVO REMOVED.

AERO INFO DATE 26 MAR 25

AD 2-EGLF-4-1

CONTROL ZONE AND CONTROL AREA CHART — FARNBOROUGH



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.
*Airspace sharing only during published hours within the marked areas of CTR 1, CTA 2, 3 & 6 and the respective ATZ (see ENR 2.1).

LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

GENERAL INFORMATION
For hours of operation see ENR 2.1.

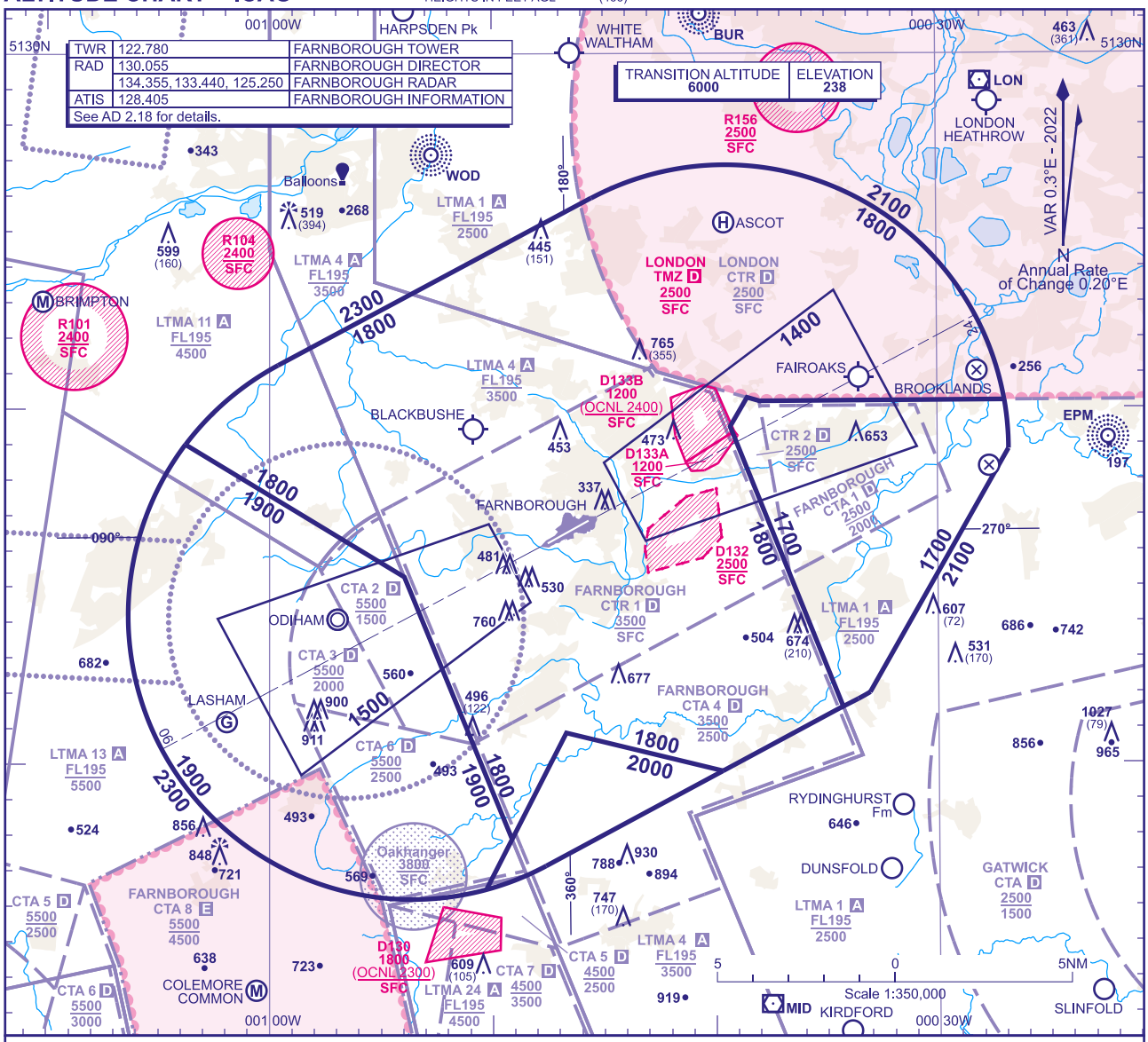
CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 24 JAN 25

AD 2-EGLF-4-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 794
HEIGHTS IN FEET AGL (466)



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1700** in the sector defined by the lateral limits; 512020N 0003837W - 512013N 0003800W - 512014N 0002659W thence clockwise by an arc of a circle radius 8NM centred on 511853N 0003933W to 511851N 0002648W - 511200N 0003304W thence clockwise by an arc of a circle radius 8NM centred on 511853N 0003933W - 511149N 0003336W - 511136N 0003417W - 511930N 0003918W - 512020N 0003837W.

b) **1800** in the sector defined by the lateral limits; 511901N 0010347W thence clockwise by an arc of a circle radius 8NM centred on 511412N 0005336W to 512115N 0005937W - 512557N 0004531W thence clockwise by an arc of a circle radius 8NM centred on 511853N 0003933W to 512014N 0002659W - 512013N 0003800W - 512020N 0003837W - 511930N 0003918W - 511136N 0003417W - 510948N 0003941W - 511053N 0004642W - 510754N 0004909W - 511517N 0005357W - 511901N 0010347W.

c) **2000** in the sector defined by the lateral limits; 511053N 0004642W - 510948N 0003941W - 510709N 0004738W thence clockwise by an arc of a circle radius 8NM centred on 511412N 0005336W to 510629N 0005018W - 511053N 0004642W.

d) **1900** in the sector defined by the lateral limits; 511901N 0010347W - 511517N 0005357W - 510754N 0004909W - 510629N 0005018W thence clockwise by an arc of a circle radius 8NM centred on 511412N 0005336W to 511901N 0010347W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES Caution: Oakhanger HIRTA; Avoid active Danger Areas at all times; Intense gliding activity at Lasham.

Initial Approach

Continue visually or by means of ILS final approach procedure. If not possible proceed to **VEXUB** at **3000** and carry out the appropriate ILS initial approach as detailed at AD-2-EGLF-7-9 or AD-2-EGLF-7-10 followed by the relevant Instrument Approach Procedure at AD-2-EGLF-8.

Intermediate and Final Approach

Continue visually or by means of the appropriate Instrument Approach Procedure. If not possible see Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (13/23): OCK REMOVED. FREQUENCY. LASHAM GLIDERSITE. DOMINANT OBSTACLES. LOSS OF COMMUNICATIONS PROCEDURES.

AERO INFO DATE 10 OCT 23

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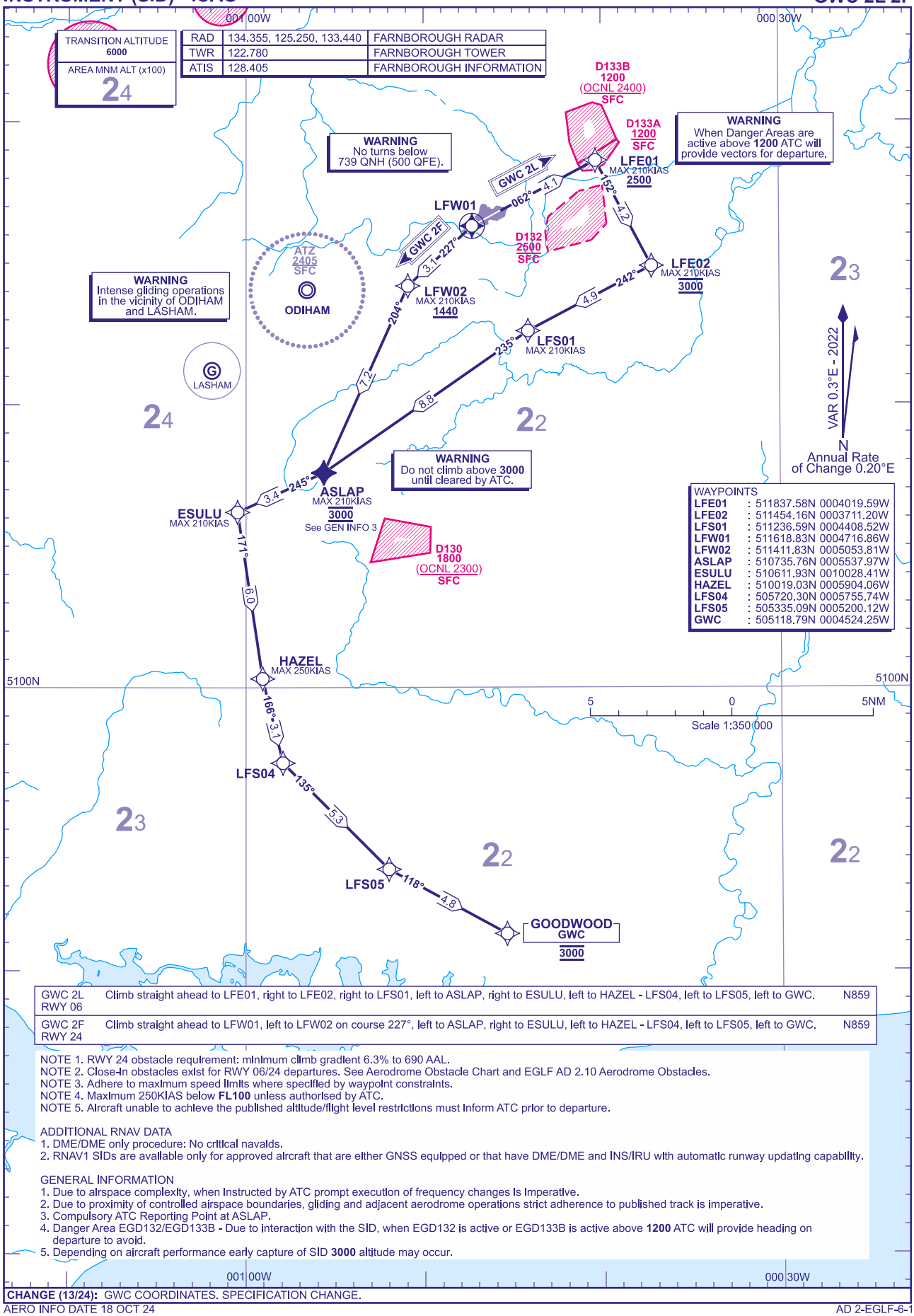
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

FARNBOROUGH
RWY 06/24
GWC 2L 2F



GWC 2L RWY 06	Climb straight ahead to LFE01, right to LFE02, right to LFS01, left to ASLAP, right to ESULU, left to HAZEL - LFS04, left to LFS05, left to GWC.	N859
GWC 2F RWY 24	Climb straight ahead to LFW01, left to LFW02 on course 227°, left to ASLAP, right to ESULU, left to HAZEL - LFS04, left to LFS05, left to GWC.	N859

NOTE 1. RWY 24 obstacle requirement: minimum climb gradient 6.3% to 690 AAL.
NOTE 2. Close-in obstacles exist for RWY 06/24 departures. See Aerodrome Obstacle Chart and EGLF AD 2.10 Aerodrome Obstacles.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.
NOTE 5. Aircraft unable to achieve the published altitude/flight level restrictions must inform ATC prior to departure.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: No critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. Due to airspace complexity, when instructed by ATC prompt execution of frequency changes is imperative.
2. Due to proximity of controlled airspace boundaries, gliding and adjacent aerodrome operations strict adherence to published track is imperative.
3. Compulsory ATC Reporting Point at ASLAP.
4. Danger Area EGD132/EGD133B - Due to interaction with the SID, when EGD132 is active or EGD133B is active above **1200** ATC will provide heading on departure to avoid.
5. Depending on aircraft performance early capture of SID **3000** altitude may occur.

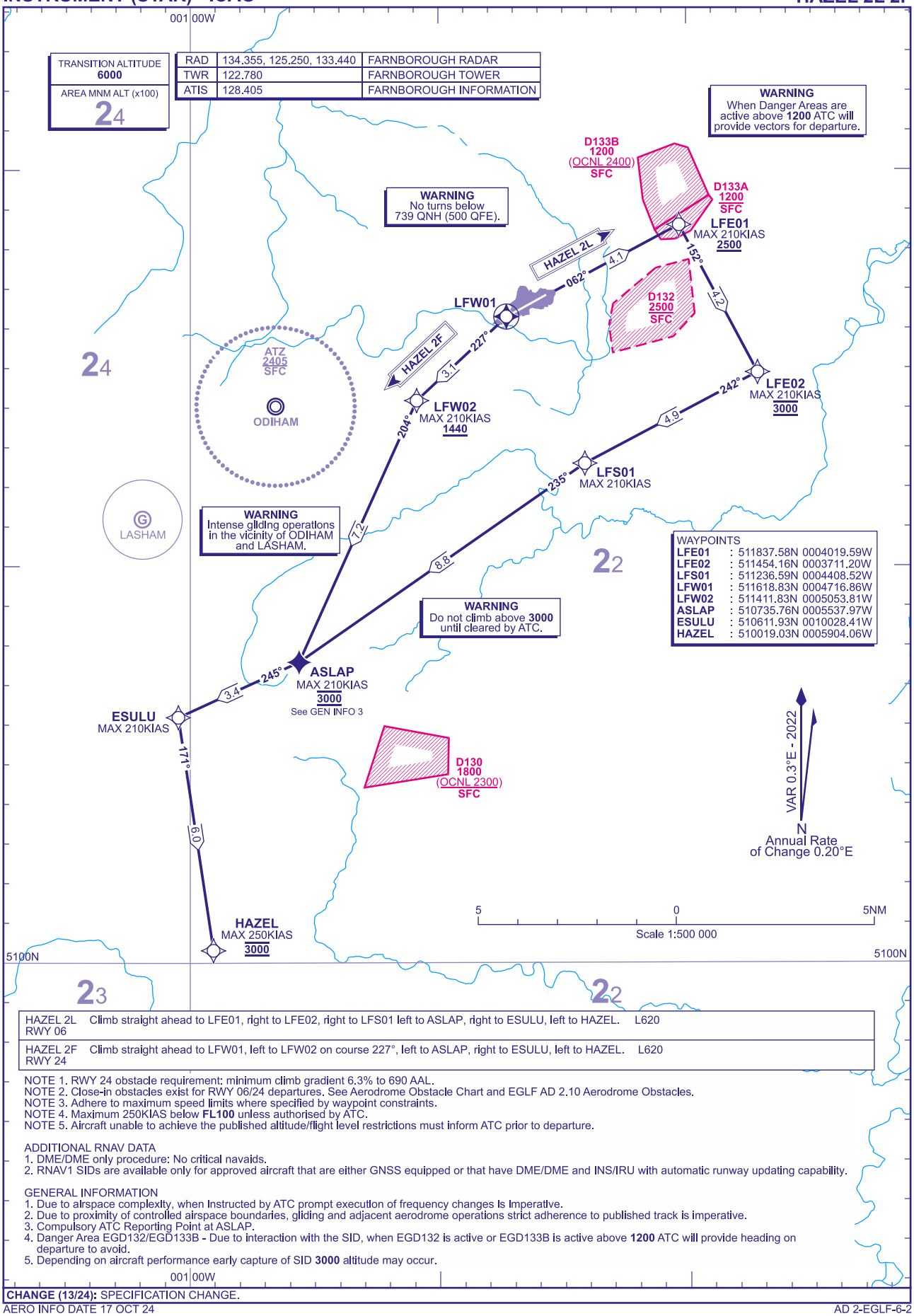
CHANGE (13/24): GWC COORDINATES. SPECIFICATION CHANGE.

AERO INFO DATE 18 OCT 24
AD 2-EGLF-6-1

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

FARNBOROUGH
RWY 06/24
HAZEL 2L 2F



HAZEL 2L RWY 06	Climb straight ahead to LFE01, right to LFE02, right to LFS01 left to ASLAP, right to ESULU, left to HAZEL. L620
HAZEL 2F RWY 24	Climb straight ahead to LFW01, left to LFW02 on course 227°, left to ASLAP, right to ESULU, left to HAZEL. L620

NOTE 1. RWY 24 obstacle requirement: minimum climb gradient 6.3% to 690 AAL.
NOTE 2. Close-in obstacles exist for RWY 06/24 departures. See Aerodrome Obstacle Chart and EGLF AD 2.10 Aerodrome Obstacles.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.
NOTE 5. Aircraft unable to achieve the published altitude/flight level restrictions must inform ATC prior to departure.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: No critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. Due to airspace complexity, when instructed by ATC prompt execution of frequency changes is imperative.
2. Due to proximity of controlled airspace boundaries, gliding and adjacent aerodrome operations strict adherence to published track is imperative.
3. Compulsory ATC Reporting Point at ASLAP.
4. Danger Area EGD132/EGD133B - Due to interaction with the SID, when EGD132 is active or EGD133B is active above **1200** ATC will provide heading on departure to avoid.
5. Depending on aircraft performance early capture of SID **3000** altitude may occur.

CHANGE (13/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 OCT 24

Standard Instrument Departure Coding Tables

FARNBOROUGH Runway 06 GWC 2L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GWC2L	001	CA	-	-	-	062° (062.0°)	0.3	-	-	+739	-	RNAV1
GWC2L	002	CF	LFE01	511837.58N 0004019.59W	N	062° (062.0°)	0.3	4.1	RIGHT	+2500	-210	RNAV1
GWC2L	003	TF	LFE02	511454.16N 0003711.20W	N	152° (152.1°)	0.3	4.2	RIGHT	3000	-210	RNAV1
GWC2L	004	TF	LFS01	511236.59N 0004408.52W	N	242° (242.3°)	0.3	4.9	LEFT	-	-210	RNAV1
GWC2L	005	TF	ASLAP	510735.76N 0005537.97W	N	235° (235.3°)	0.3	8.8	RIGHT	3000	-210	RNAV1
GWC2L	006	TF	ESULU	510611.93N 0010028.41W	N	245° (245.4°)	0.3	3.4	LEFT	-	-210	RNAV1
GWC2L	007	TF	HAZEL	510019.03N 0005904.06W	N	171° (171.4°)	0.3	6.0	-	-	-250	RNAV1
GWC2L	008	TF	LFS04	505720.30N 0005755.74W	N	166° (166.4°)	0.3	3.1	LEFT	-	-	RNAV1
GWC2L	009	TF	LFS05	505335.09N 0005200.12W	N	135° (135.0°)	0.3	5.3	LEFT	-	-	RNAV1
GWC2L	010	TF	GWC	505118.79N 0004524.25W	N	118° (118.5°)	0.3	4.8	-	3000	-	RNAV1

FARNBOROUGH Runway 24 GWC 2F

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GWC2F	001	CF	LFW01	511618.83N 0004716.86W	Y	242° (242.0°)	0.3	-	-	-	-	RNAV1
GWC2F	002	CA	-	-	-	242° (242.0°)	0.3	-	-	+739	-	RNAV1
GWC2F	003	CF	LFW02	511411.83N 0005053.81W	N	227° (227.0°)	0.3	3.1	LEFT	+1440	-210	RNAV1
GWC2F	004	TF	ASLAP	510735.76N 0005537.97W	N	204° (204.3°)	0.3	7.2	RIGHT	3000	-210	RNAV1
GWC2F	005	TF	ESULU	510611.93N 0010028.41W	N	245° (245.4°)	0.3	3.4	LEFT	-	-210	RNAV1
GWC2F	006	TF	HAZEL	510019.03N 0005904.06W	N	171° (171.4°)	0.3	6.0	-	-	-250	RNAV1
GWC2F	007	TF	LFS04	505720.30N 0005755.74W	N	166° (166.4°)	0.3	3.1	LEFT	-	-	RNAV1
GWC2F	008	TF	LFS05	505335.09N 0005200.12W	N	135° (135.0°)	0.3	5.3	LEFT	-	-	RNAV1
GWC2F	009	TF	GWC	505118.79N 0004524.25W	N	118° (118.5°)	0.3	4.8	-	3000	-	RNAV1

CHANGE (13/24): GWC COORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 10 OCT 24

Standard Instrument Departure Coding Tables

FARNBOROUGH Runway 06 HAZEL 2L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HAZEL2L	001	CA	-	-	-	062° (062.0°)	0.3	-	-	+739	-	RNAV1
HAZEL2L	002	CF	LFE01	511837.58N 0004019.59W	N	062° (062.0°)	0.3	4.1	RIGHT	+2500	-210	RNAV1
HAZEL2L	003	TF	LFE02	511454.16N 0003711.20W	N	152° (152.1°)	0.3	4.2	RIGHT	3000	-210	RNAV1
HAZEL2L	004	TF	LFS01	511236.59N 0004408.52W	N	242° (242.3°)	0.3	4.9	LEFT	-	-210	RNAV1
HAZEL2L	005	TF	ASLAP	510735.76N 0005537.97W	N	235° (235.3°)	0.3	8.8	RIGHT	3000	-210	RNAV1
HAZEL2L	006	TF	ESULU	510611.93N 0010028.41W	N	245° (245.4°)	0.3	3.4	LEFT	-	-210	RNAV1
HAZEL2L	007	TF	HAZEL	510019.03N 0005904.06W	N	171° (171.4°)	0.3	6.0	-	3000	-250	RNAV1

FARNBOROUGH Runway 24 HAZEL 2F

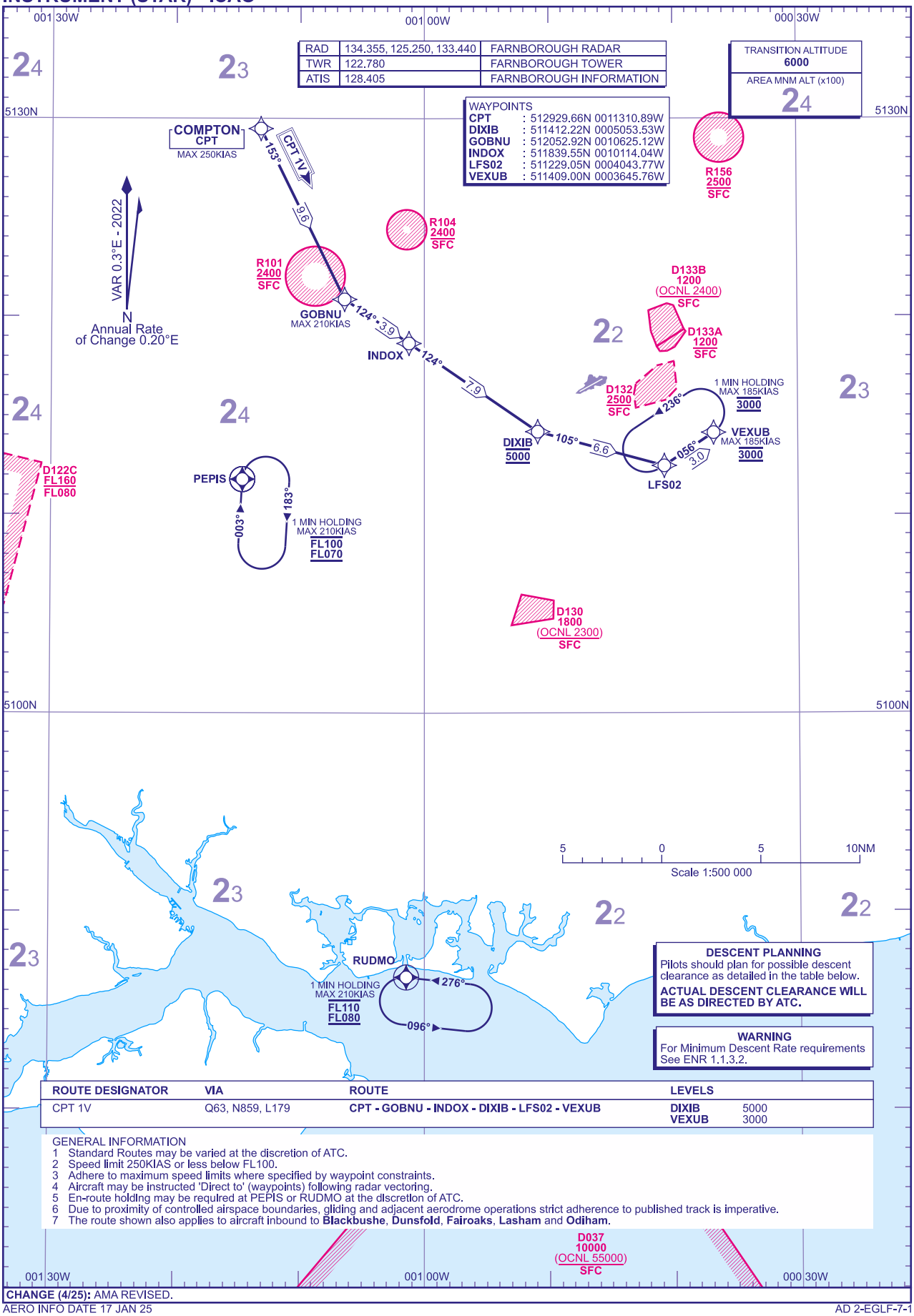
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HAZEL2F	001	CF	LFW01	511618.83N 0004716.86W	Y	242° (242.0°)	0.3	-	-	-	-	RNAV1
HAZEL2F	002	CA	-	-	-	242° (242.0°)	0.3	-	-	+739	-	RNAV1
HAZEL2F	003	CF	LFW02	511411.83N 0005053.81W	N	227° (227.0°)	0.3	3.1	LEFT	+1440	-210	RNAV1
HAZEL2F	004	TF	ASLAP	510735.76N 0005537.97W	N	204° (204.3°)	0.3	7.2	RIGHT	3000	-210	RNAV1
HAZEL2F	005	TF	ESULU	510611.93N 0010028.41W	N	245° (245.4°)	0.3	3.4	LEFT	-	-210	RNAV1
HAZEL2F	006	TF	HAZEL	510019.03N 0005904.06W	N	171° (171.4°)	0.3	6.0	-	3000	-250	RNAV1

CHANGE (13/24): CHART SPECIFICATION.
AERO INFO DATE 10 OCT 24

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

FARNBOROUGH CPT 1V



DESCENT PLANNING
Pilots should plan for possible descent clearance as detailed in the table below.
ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

WARNING
For Minimum Descent Rate requirements See ENR 1.1.3.2.

ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
CPT 1V	Q63, N859, L179	CPT - GOBNU - INDOX - DIXIB - LFS02 - VEXUB	DIXIB VEXUB	5000 3000

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Speed limit 250KIAS or less below FL100.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.
5 En-route holding may be required at PEPIS or RUDMO at the discretion of ATC.
6 Due to proximity of controlled airspace boundaries, gliding and adjacent aerodrome operations strict adherence to published track is imperative.
7 The route shown also applies to aircraft inbound to **Blackbushe**, **Dunsfold**, **Fairoaks**, **Lasham** and **Odiham**.

CHANGE (4/25): AMA REVISED.

AERO INFO DATE 17 JAN 25

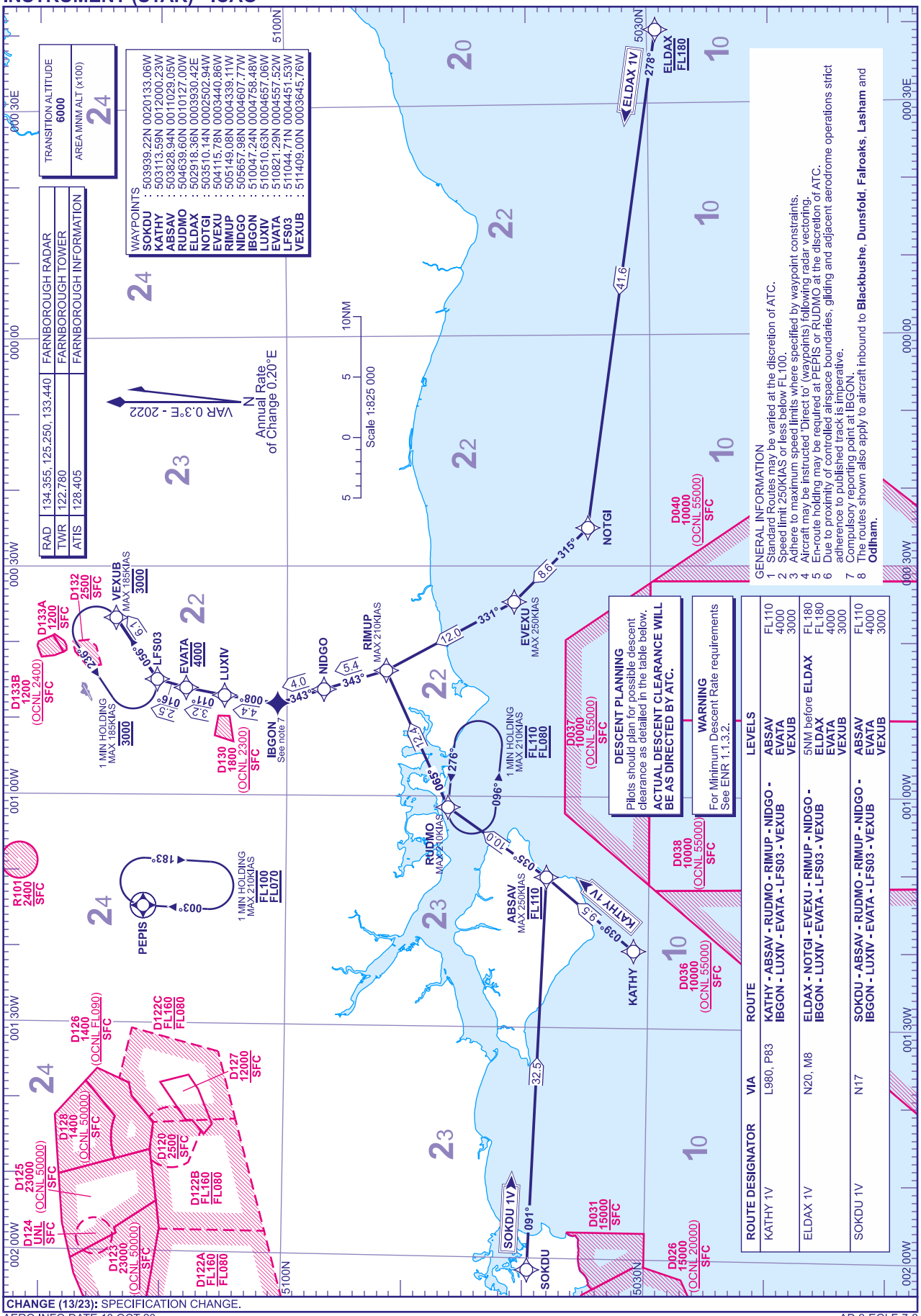
AD 2-EGLF-7-1

I

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

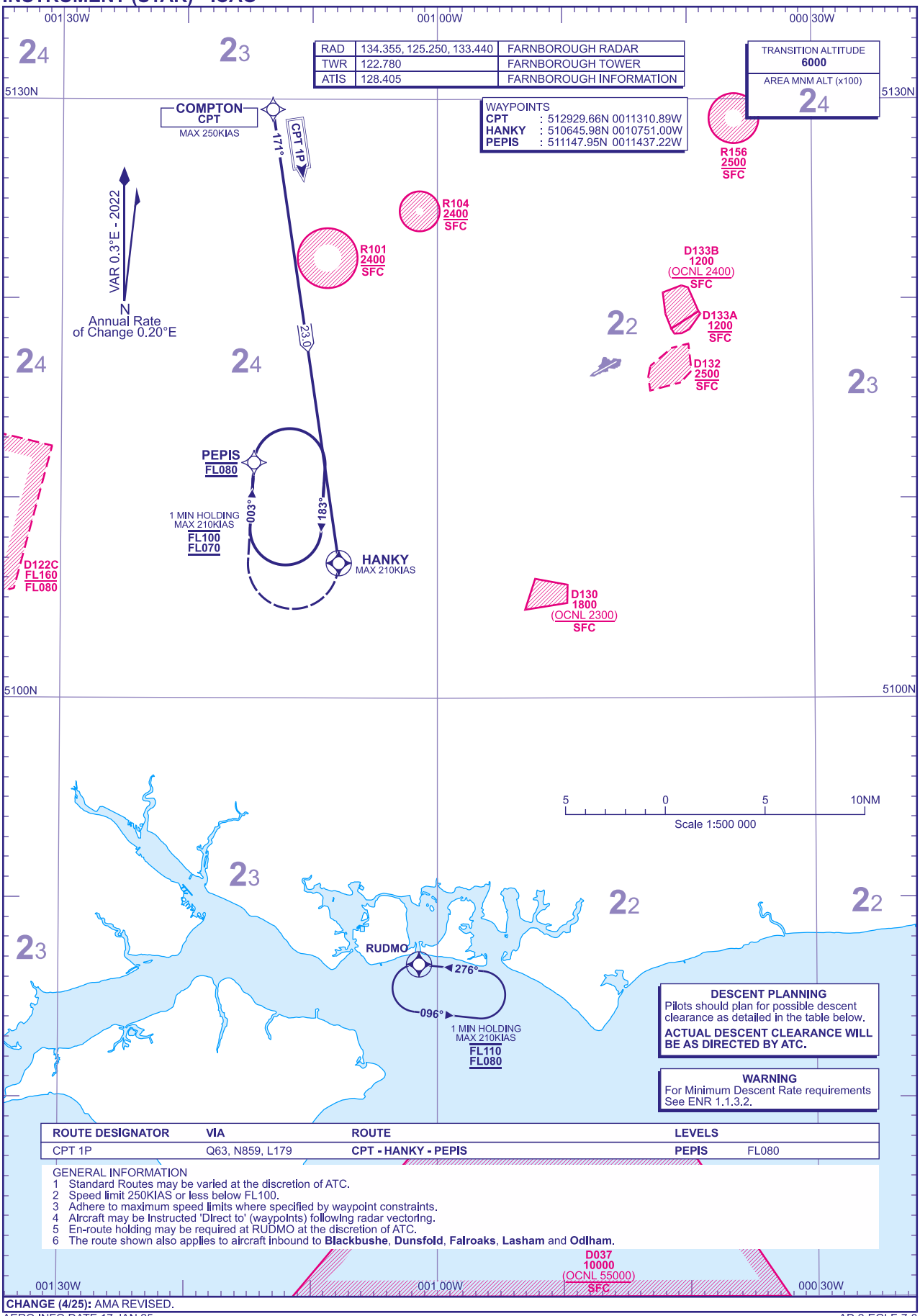
FARNBOROUGH KATHY 1V ELDAX 1V SOKDU 1V



RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

FARNBOROUGH CPT 1P



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
CPT 1P	Q63, N859, L179	CPT - HANKY - PEPIS	PEPIS	FL080

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Speed limit 250KIAS or less below FL100.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.
5 En-route holding may be required at RUDMO at the discretion of ATC.
6 The route shown also applies to aircraft inbound to **Blackbushe**, **Dunsfold**, **Fairoaks**, **Lasham** and **Odiham**.

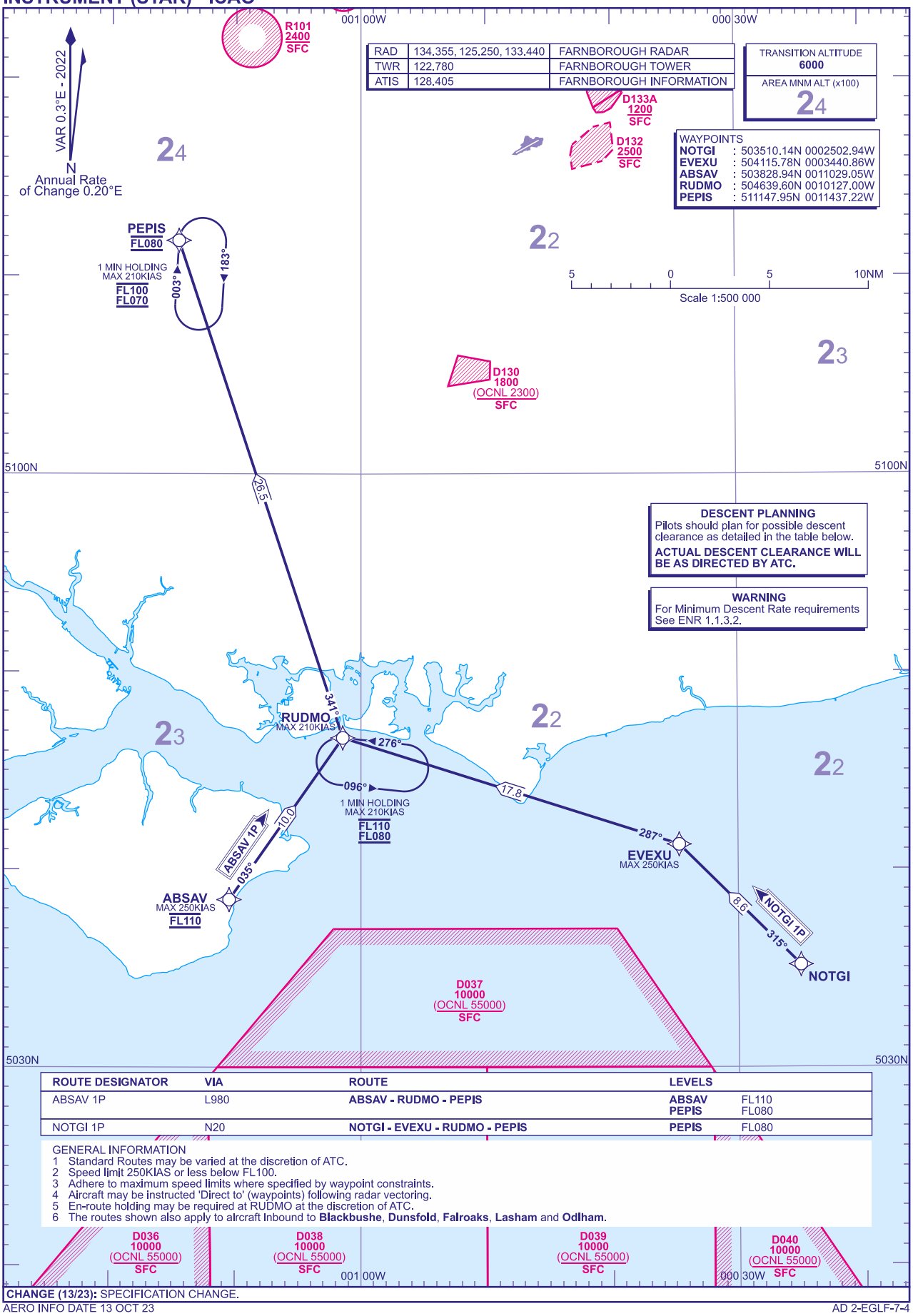
CHANGE (4/25): AMA REVISED.

AERO INFO DATE 17 JAN 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

FARNBOROUGH ABSAV 1P NOTGI 1P



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
ABSAV 1P	L980	**ABSAV - RUDMO - PEPIS**	**ABSAV** **PEPIS**	FL110 FL080
NOTGI 1P	N20	**NOTGI - EVEXU - RUDMO - PEPIS**	**PEPIS**	FL080

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Speed limit 250KIAS or less below FL100.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.
5 En-route holding may be required at RUDMO at the discretion of ATC.
6 The routes shown also apply to aircraft Inbound to **Blackbushe**, **Dunsfold**, **Falroaks**, **Lasham** and **Odlham**.

CHANGE (13/23): SPECIFICATION CHANGE.

AERO INFO DATE 13 OCT 23

AD 2-EGLF-7-4

Standard Instrument Arrival Coding Tables

FARNBOROUGH CPT 1V

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CPT1V	001	IF	CPT	512929.66N 0011310.89W	N	-	-	-	-	-	-250	RNAV1
CPT1V	002	TF	GOBNU	512052.92N 0010625.12W	N	153° (153.8°)	0.3	9.6	LEFT	-	-210	RNAV1
CPT1V	003	TF	INDOX	511839.55N 0010114.04W	N	124° (124.4°)	0.3	3.9	-	-	-210	RNAV1
CPT1V	004	TF	DIXIB	511412.22N 0005053.53W	N	124° (124.4°)	0.3	7.9	LEFT	5000	-210	RNAV1
CPT1V	005	TF	LFS02	511229.05N 0004043.77W	N	105° (105.0°)	0.3	6.6	LEFT	-	-210	RNAV1
CPT1V	006	TF	VEXUB	511409.00N 0003645.76W	N	056° (056.2°)	0.3	3.0	-	3000	-185	RNAV1

FARNBOROUGH KATHY 1V

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KATHY1V	001	IF	KATHY	503113.59N 0012000.23W	N	-	-	-	-	-	-	RNAV1
KATHY1V	002	TF	ABSAV	503828.94N 0011029.05W	N	039° (039.8°)	0.3	9.5	LEFT	FL110	-250	RNAV1
KATHY1V	003	TF	RUDMO	504639.60N 0010127.00W	N	035° (035.0°)	0.3	10.0	RIGHT	-	-210	RNAV1
KATHY1V	004	TF	RIMUP	505149.08N 0004339.11W	N	065° (065.3°)	0.3	12.4	LEFT	-	-210	RNAV1
KATHY1V	005	TF	NIDGO	505657.98N 0004607.77W	N	343° (343.1°)	0.3	5.4	-	-	-210	RNAV1
KATHY1V	006	TF	IBGON	510047.24N 0004758.48W	N	343° (343.1°)	0.3	4.0	RIGHT	-	-210	RNAV1
KATHY1V	007	TF	LUXIV	510510.63N 0004657.06W	N	008° (008.4°)	0.3	4.4	RIGHT	-	-210	RNAV1
KATHY1V	008	TF	EVATA	510821.29N 0004557.52W	N	011° (011.1°)	0.3	3.2	RIGHT	4000	-210	RNAV1
KATHY1V	009	TF	LFS03	511044.71N 0004451.53W	N	016° (016.1°)	0.3	2.5	RIGHT	-	-210	RNAV1
KATHY1V	010	TF	VEXUB	511409.00N 0003645.76W	N	056° (056.1°)	0.3	6.1	-	3000	-185	RNAV1

CHANGE (13/23): SPECIFICATION CHANGE.
AERO INFO DATE 13 OCT 23

I

Standard Instrument Arrival Coding Tables

FARNBOROUGH ELDAX 1V

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ELDAX1V	001	IF	ELDAX	502918.36N 0003930.42E	N	-	-	-	-	FL180	-	RNAV1
ELDAX1V	002	TF	NOTGI	503510.14N 0002502.94W	N	278° (278.5°)	0.3	41.6	RIGHT	-	-	RNAV1
ELDAX1V	003	TF	EVEXU	504115.78N 0003440.86W	N	315° (314.9°)	0.3	8.6	RIGHT	-	-250	RNAV1
ELDAX1V	004	TF	RIMUP	505149.08N 0004339.11W	N	331° (331.7°)	0.3	12.0	RIGHT	-	-210	RNAV1
ELDAX1V	005	TF	NIDGO	505657.98N 0004607.77W	N	343° (343.1°)	0.3	5.4	-	-	-210	RNAV1
ELDAX1V	006	TF	IBGON	510047.24N 0004758.48W	N	343° (343.1°)	0.3	4.0	RIGHT	-	-210	RNAV1
ELDAX1V	007	TF	LUXIV	510510.63N 0004657.06W	N	008° (008.4°)	0.3	4.4	RIGHT	-	-210	RNAV1
ELDAX1V	008	TF	EVATA	510821.29N 0004557.52W	N	011° (011.1°)	0.3	3.2	RIGHT	4000	-210	RNAV1
ELDAX1V	009	TF	LFS03	511044.71N 0004451.53W	N	016° (016.1°)	0.3	2.5	RIGHT	-	-210	RNAV1
ELDAX1V	010	TF	VEXUB	511409.00N 0003645.76W	N	056° (056.1°)	0.3	6.1	-	3000	-185	RNAV1

FARNBOROUGH SOKDU 1V

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SOKDU1V	001	IF	SOKDU	503939.22N 0020133.06W	N	-	-	-	-	-	-	RNAV1
SOKDU1V	002	TF	ABSAV	503828.94N 0011029.05W	N	091° (091.7°)	0.3	32.5	LEFT	FL110	-250	RNAV1
SOKDU1V	003	TF	RUDMO	504639.60N 0010127.00W	N	035° (035.0°)	0.3	10.0	RIGHT	-	-210	RNAV1
SOKDU1V	004	TF	RIMUP	505149.08N 0004339.11W	N	065° (065.3°)	0.3	12.4	LEFT	-	-210	RNAV1
SOKDU1V	005	TF	NIDGO	505657.98N 0004607.77W	N	343° (343.1°)	0.3	5.4	-	-	-210	RNAV1
SOKDU1V	006	TF	IBGON	510047.24N 0004758.48W	N	343° (343.1°)	0.3	4.0	RIGHT	-	-210	RNAV1
SOKDU1V	007	TF	LUXIV	510510.63N 0004657.06W	N	008° (008.4°)	0.3	4.4	RIGHT	-	-210	RNAV1
SOKDU1V	008	TF	EVATA	510821.29N 0004557.52W	N	011° (011.1°)	0.3	3.2	RIGHT	4000	-210	RNAV1
SOKDU1V	009	TF	LFS03	511044.71N 0004451.53W	N	016° (016.1°)	0.3	2.5	RIGHT	-	-210	RNAV1
SOKDU1V	010	TF	VEXUB	511409.00N 0003645.76W	N	056° (056.1°)	0.3	6.1	-	3000	-185	RNAV1

CHANGE (13/23): SPECIFICATION CHANGE.
AERO INFO DATE 13 OCT 23

Standard Instrument Arrival Coding Tables

FARNBOROUGH ABSAV 1P

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ABSAV1P	001	IF	ABSAV	503828.94N 0011029.05W	N	-	-	-	-	FL110	-250	RNAV5
ABSAV1P	002	TF	RUDMO	504639.60N 0010127.00W	N	035° (035.0°)	0.3	10.0	LEFT	-	-210	RNAV5
ABSAV1P	003	TF	PEPIS	511147.95N 0011437.22W	N	341° (341.8°)	0.3	26.5	-	FL080	-	RNAV5

FARNBOROUGH CPT 1P

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CPT1P	001	IF	CPT	512929.66N 0011310.89W	N	-	-	-	-	-	-250	RNAV5
CPT1P	002	TF	HANKY	510645.98N 0010751.00W	Y	171° (171.6°)	0.3	23.0	RIGHT	-	-210	RNAV5
CPT1P	003	CF	PEPIS	511147.95N 0011437.22W	N	003° (003.5°)	0.3	-	-	FL080	-	RNAV5

FARNBOROUGH NOTGI 1P

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NOTGI1P	001	IF	NOTGI	503510.14N 0002502.94W	N	-	-	-	-	-	-	RNAV5
NOTGI1P	002	TF	EVEXU	504115.78N 0003440.86W	N	315° (314.9°)	0.3	8.6	LEFT	-	-250	RNAV5
NOTGI1P	003	TF	RUDMO	504639.60N 0010127.00W	N	287° (287.8°)	0.3	17.8	RIGHT	-	-210	RNAV5
NOTGI1P	004	TF	PEPIS	511147.95N 0011437.22W	N	341° (341.8°)	0.3	26.5	-	FL080	-	RNAV5

CHANGE (13/23): SPECIFICATION CHANGES.
AERO INFO DATE 13 OCT 23

RNAV Hold Coding Tables

FARNBOROUGH PEPIS Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PEPIS	-	-	PEPIS	511147.95N 0011437.22W	Y	003° (003.5°)	0.3	1 MIN	RIGHT	-FL100 +FL070	-210	RNAV5

FARNBOROUGH VEXUB Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
VEXUB	-	-	VEXUB	511409.00N 0003645.76W	Y	056° (056.3°)	0.3	1 MIN	LEFT	3000	-185	RNAV1

FARNBOROUGH RUDMO Hold

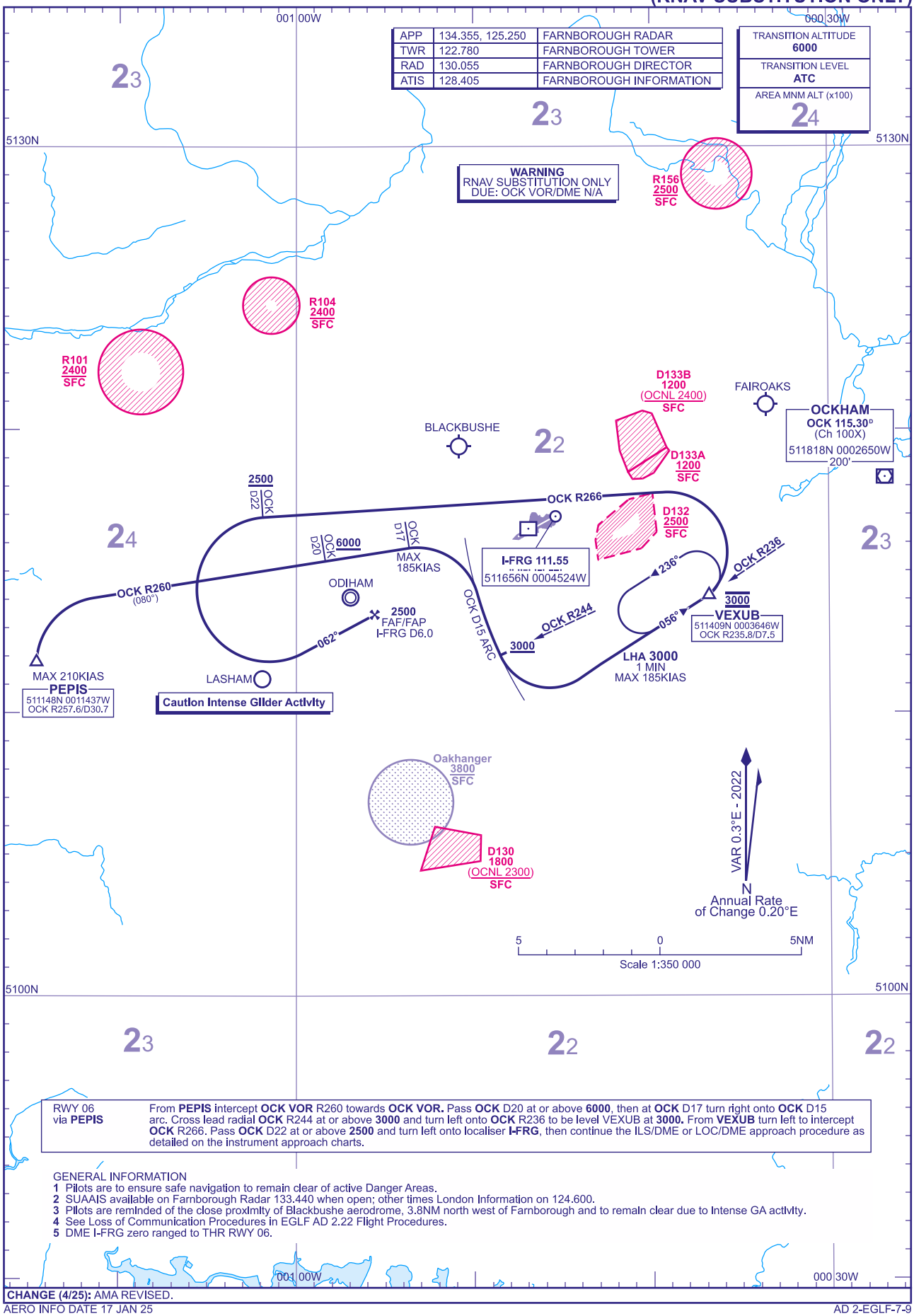
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RUDMO	-	-	RUDMO	504639.60N 0010127.00W	Y	276° (275.9°)	0.3	1 MIN	LEFT	-FL110 +FL080	-210	RNAV5

CHANGE (13/23): SPECIFICATION CHANGE.
AERO INFO DATE 13 OCT 23

INITIAL APPROACH PROCEDURE
ILS/DME LOC/DME RWY 06

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

FARNBOROUGH
via PEPIS
(RNAV SUBSTITUTION ONLY)



RWY 06 via **PEPIS**	From **PEPIS** intercept **OCK VOR** R260 towards **OCK VOR.** Pass **OCK** D20 at or above **6000**, then at **OCK** D17 turn right onto **OCK** D15 arc. Cross lead radial **OCK** R244 at or above **3000** and turn left onto **OCK** R236 to be level VEXUB at **3000.** From **VEXUB** turn left to intercept **OCK** R266. Pass **OCK** D22 at or above **2500** and turn left onto localiser **I-FRG**, then continue the ILS/DME or LOC/DME approach procedure as detailed on the instrument approach charts.

GENERAL INFORMATION
1 Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to Intense GA activity.
4 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.
5 DME I-FRG zero ranged to THR RWY 06.

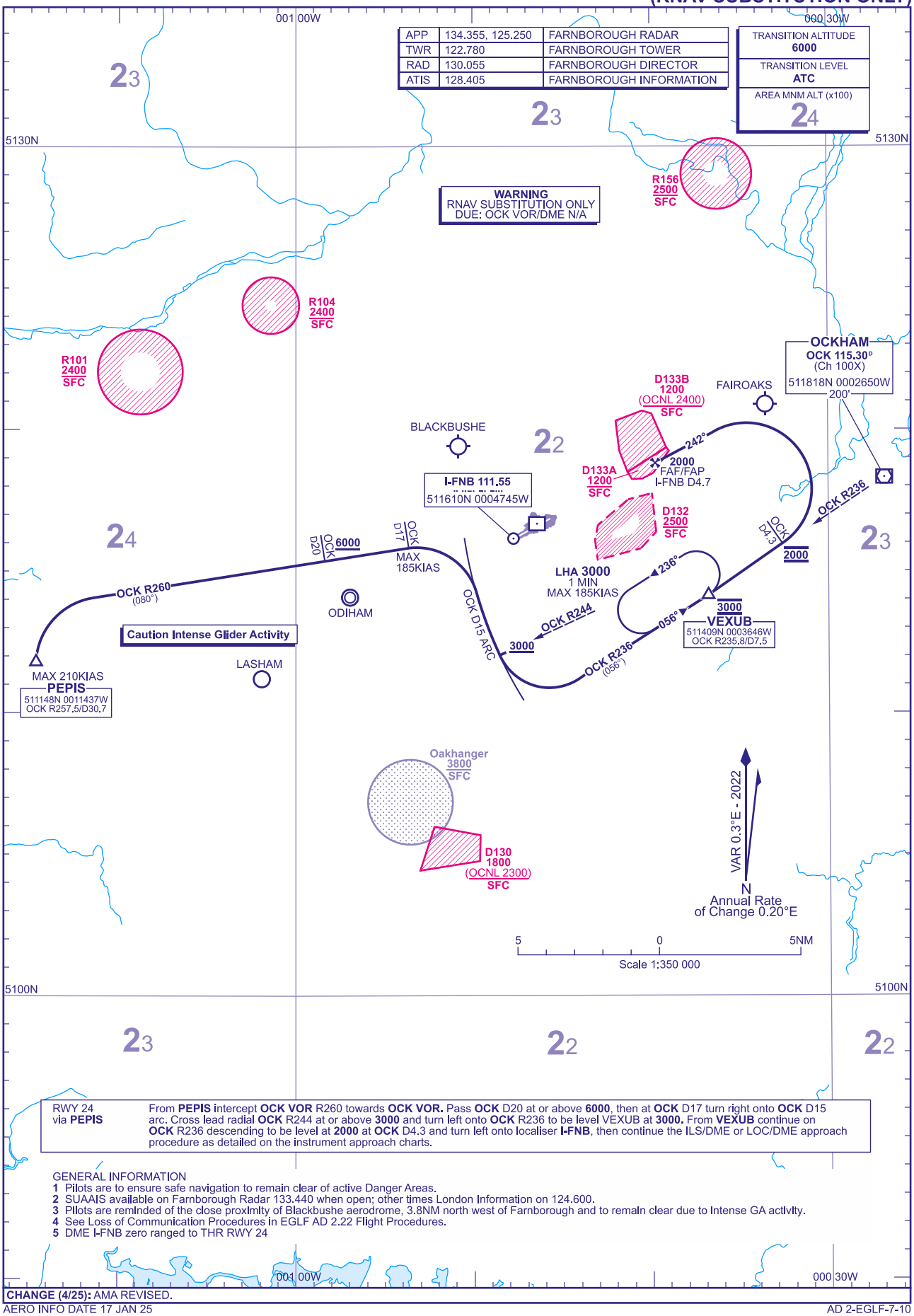
CHANGE (4/25): AMA REVISED.

AERO INFO DATE 17 JAN 25

INITIAL APPROACH PROCEDURE
ILS/DME LOC/DME RWY 24

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

FARNBOROUGH
via PEPIS
(RNAV SUBSTITUTION ONLY)



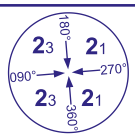
RWY 24 via **PEPIS**	From **PEPIS** intercept **OCK VOR** R260 towards **OCK VOR.** Pass **OCK** D20 at or above **6000**, then at **OCK** D17 turn right onto **OCK** D15 arc. Cross lead radial **OCK** R244 at or above **3000** and turn left onto **OCK** R236 to be level VEXUB at **3000.** From **VEXUB** continue on **OCK** R236 descending to be level at **2000** at **OCK** D4.3 and turn left onto localiser **I-FNB**, then continue the ILS/DME or LOC/DME approach procedure as detailed on the instrument approach charts.

GENERAL INFORMATION
1 Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to Intense GA activity.
4 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.
5 DME I-FNB zero ranged to THR RWY 24

CHANGE (4/25): AMA REVISED.
AERO INFO DATE 17 JAN 25
AD 2-EGLF-7-10

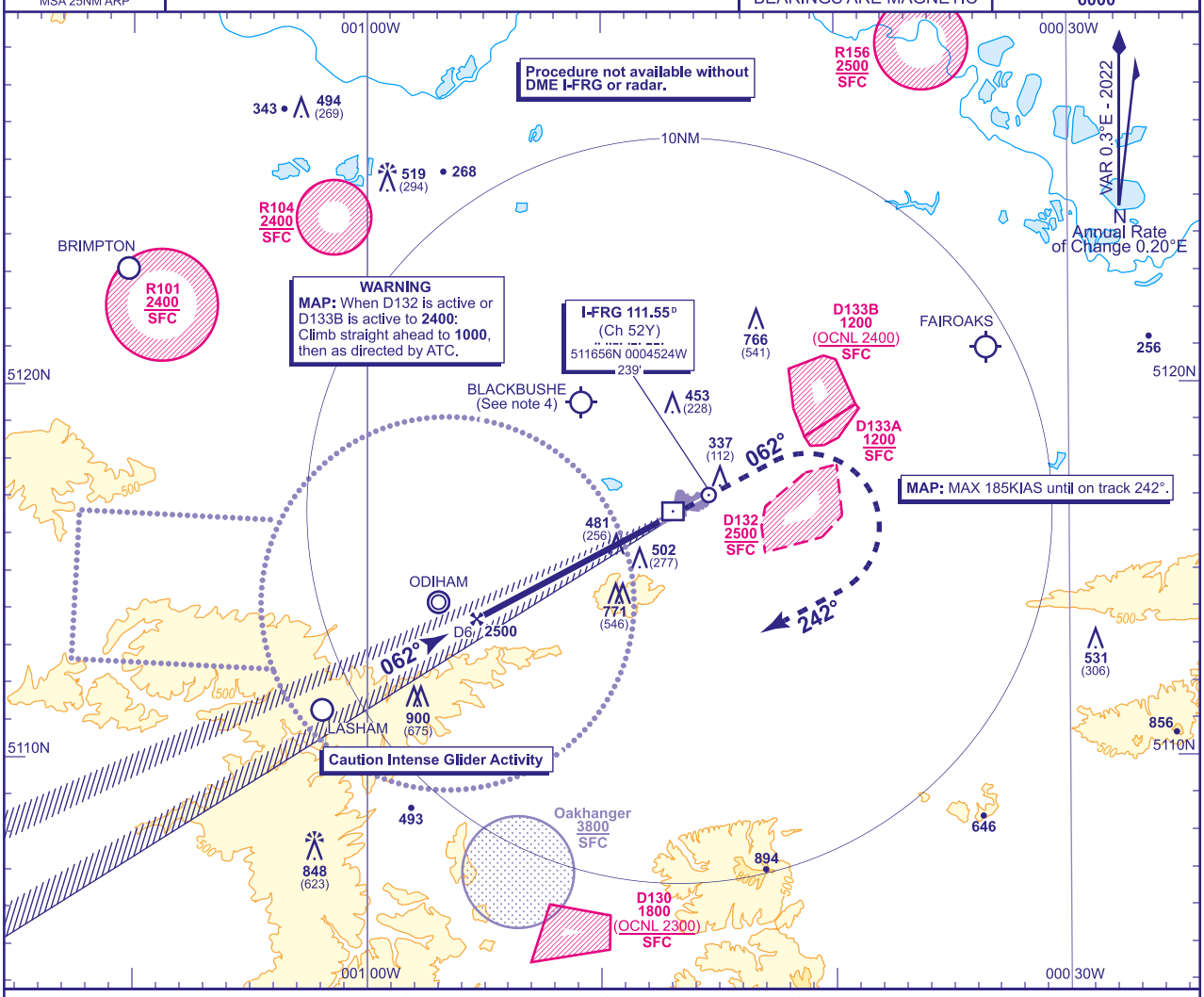
INSTRUMENT APPROACH CHART - ICAO

FARNBOROUGH ILS/DME RWY 06 (ACFT CAT A,B,C,D)



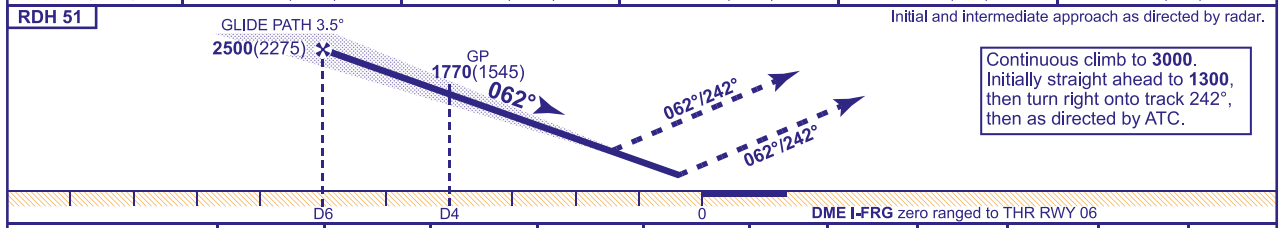
APP 134.355 125.250	FARNBOROUGH RADAR	AD ELEVATION	238
TWR 122.780	FARNBOROUGH TOWER	THR ELEVATION	225
RAD 130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION	
ATIS 128.405	FARNBOROUGH INFORMATION	900 AMSL (675) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE GLIDE PATH 3.5°, 372FT/NM

DME I-FRG	5	4	3	2	1
ALT(HGT)	**2140**(1915)	**1770**(1545)	**1400**(1175)	**1020**(795)	**650**(425)



Aircraft Category		A	B	C	D
OCA (OCH)	2.5% Climb Gradient	**830**(605)	**840**(615)	**850**(625)	**860**(635)
	5% Climb Gradient	**425**(200)	**430**(205)	**440**(215)	**450**(225)
VM(C)OCA (OCH AAL)	South of RWY 06/24	**880**(642)	**1020**(782)	**1170**(932)	**1170**(932)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

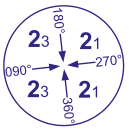
NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

AERO INFO DATE 29 JAN 24
AD 2-EGLF-8-1

INSTRUMENT APPROACH CHART - ICAO

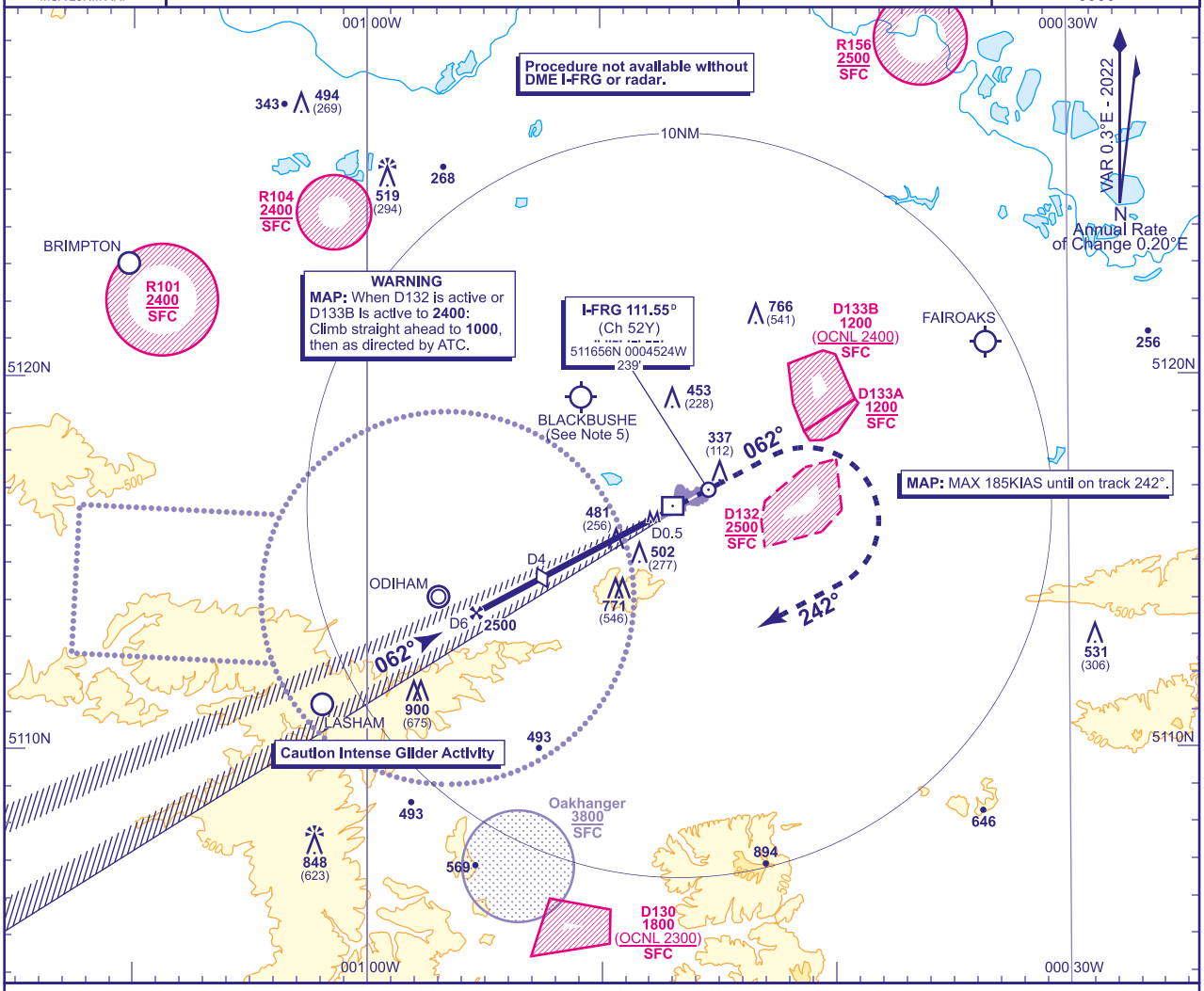
FARNBOROUGH LOC/DME RWY 06
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP 134.355 125.250	FARNBOROUGH RADAR	AD ELEVATION	238
TWR 122.780	FARNBOROUGH TOWER	THR ELEVATION	225
RAD 130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION	900 AMSL (675) (ABOVE THR)
ATIS 128.405	FARNBOROUGH INFORMATION	BEARINGS ARE MAGNETIC	

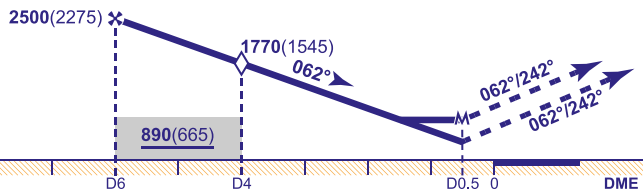
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 6.1%, 372FT/NM

DME I-FRG	5	4 (SDF)	3	2
ALT(HGT)	2140(1915)	1770(1545)	1400(1175)	1020(795)

Initial and intermediate approach as directed by radar.



MAPt I-FRG DME 0.5
Continuous climb to **3000**. Initially straight ahead to **1300**, then turn right onto track 242°, then as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	2.5% Climb Gradient	890(665)	890(665)	890(665)	890(665)
	5% Climb Gradient	750(525)	750(525)	750(525)	750(525)
VM(C)OCA (OCH AAL)	South of RWY 06/24	880(642)	1020(782)	1170(932)	1170(932)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE
1 No turns before MAPt.
2 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
3 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
4 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
5 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
6 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

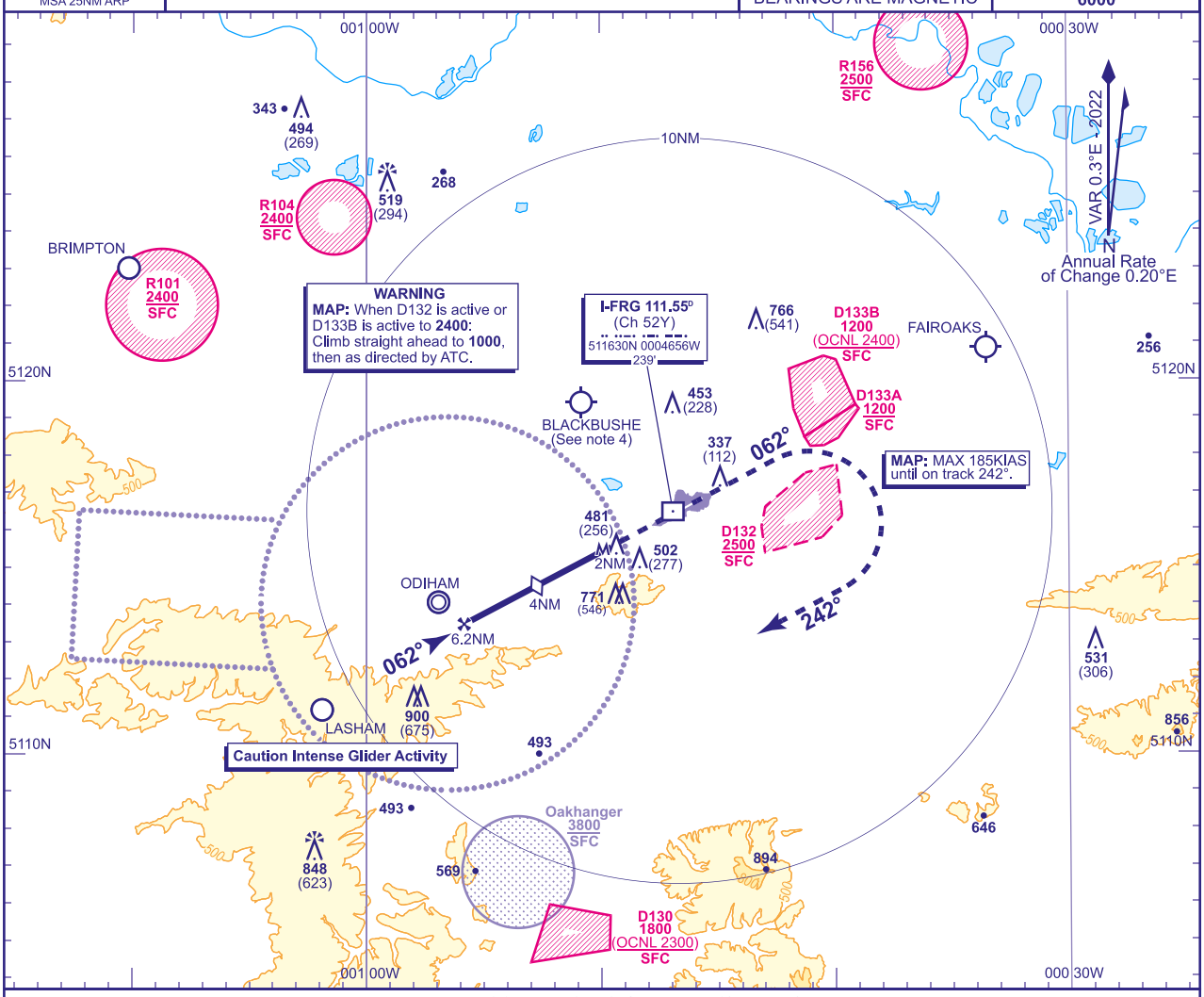
AERO INFO DATE 29 JAN 24

INSTRUMENT APPROACH CHART - ICAO

FARNBOROUGH SRA RTR 2NM RWY 06
(ACFT CAT A,B,C,D)

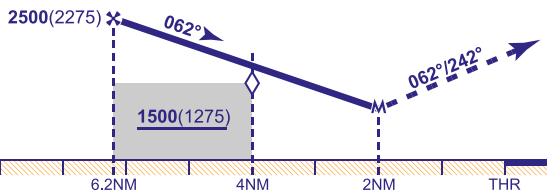
APP 134.355 125.250	FARNBOROUGH RADAR	AD ELEVATION	238
TWR 122.780	FARNBOROUGH TOWER	THR ELEVATION	225
RAD 130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION	900 AMSL (675) (ABOVE THR)
ATIS 128.405	FARNBOROUGH INFORMATION	BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

MSA 25NM ARP



RADAR ADVISORY HEIGHTS Gradient 6.1%, 372FT/NM

NM	6.2	5.0	4.0 **(SDF)**	3.0
ALT(HGT)	**2500**(2275)	**2080**(1855)	**1710**(1485)	**1340**(1115)



MAPt RTR 2NM
Continuous climb to **3000**. Initially straight ahead to **1400**, then right onto track 242°, then as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**1020**(795)	**1020**(795)	**1020**(795)	**1020**(795)
VM(C)OCA (OCH AAL)	South of RWY 06/24	**1020**(782)	**1020**(782)	**1170**(932)	**1170**(932)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

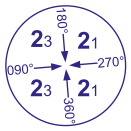
NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.
6 Radar Advisory Heights are to Touchdown.

CHANGE (8/24): DME I-FRG COORDINATES CORRECTED.

AERO INFO DATE 10 MAY 24
AD 2-EGLF-8-3

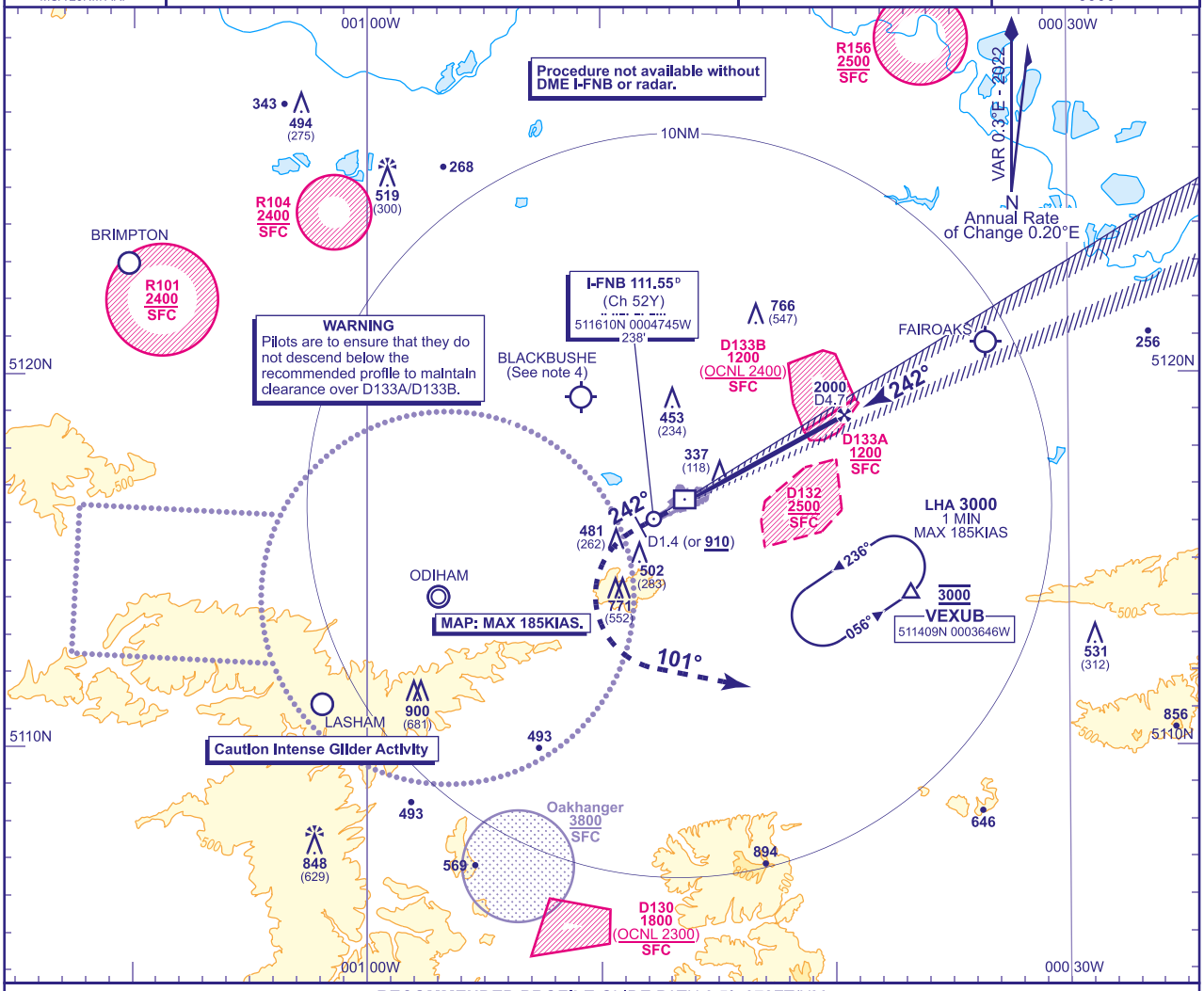
INSTRUMENT APPROACH CHART - ICAO

FARNBOROUGH ILS/DME Y RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	134.355, 125.250	FARNBOROUGH RADAR	AD ELEVATION	238	TRANSITION ALTITUDE 6000
TWR	122.780	FARNBOROUGH TOWER	THR ELEVATION	219	
RAD	130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION 900 AMSL (681) (ABOVE THR		
ATIS	128.405	FARNBOROUGH INFORMATION	BEARINGS ARE MAGNETIC		

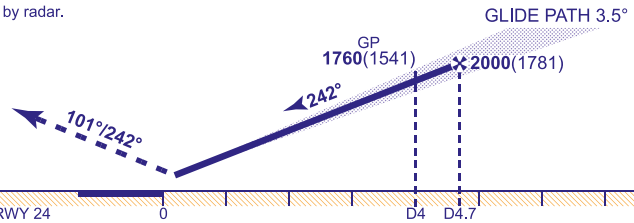


RECOMMENDED PROFILE GLIDE PATH 3.5°, 372FT/NM

DME I-FNB	4.0	3.2	3.0	2.0	1.0
ALT(HGT)	**1760**(1541)	**1460**(1241)	**1390**(1171)	**1020**(801)	**650**(431)

RDH 50 Initial and intermediate approach as directed by radar.

Continuous climb to **3000**. Initially straight ahead to **910** or **I-FNB DME 1.4** outbound, whichever is later, then turn left onto track 101° to intercept a track of 056° to **VEXUB** or as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**368**(149)	**378**(159)	**389**(170)	**402**(183)
VM(C)OCA (OCH AAL)	South of RWY 06/24	**880**(642)	**1020**(782)	**1170**(932)	**1170**(932)

Rate of descent						
	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.

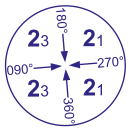
WARNING Within 0.5NM from touchdown low level turbulence and windshear may be encountered when the wind is 190°-240° at 15KT or more.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

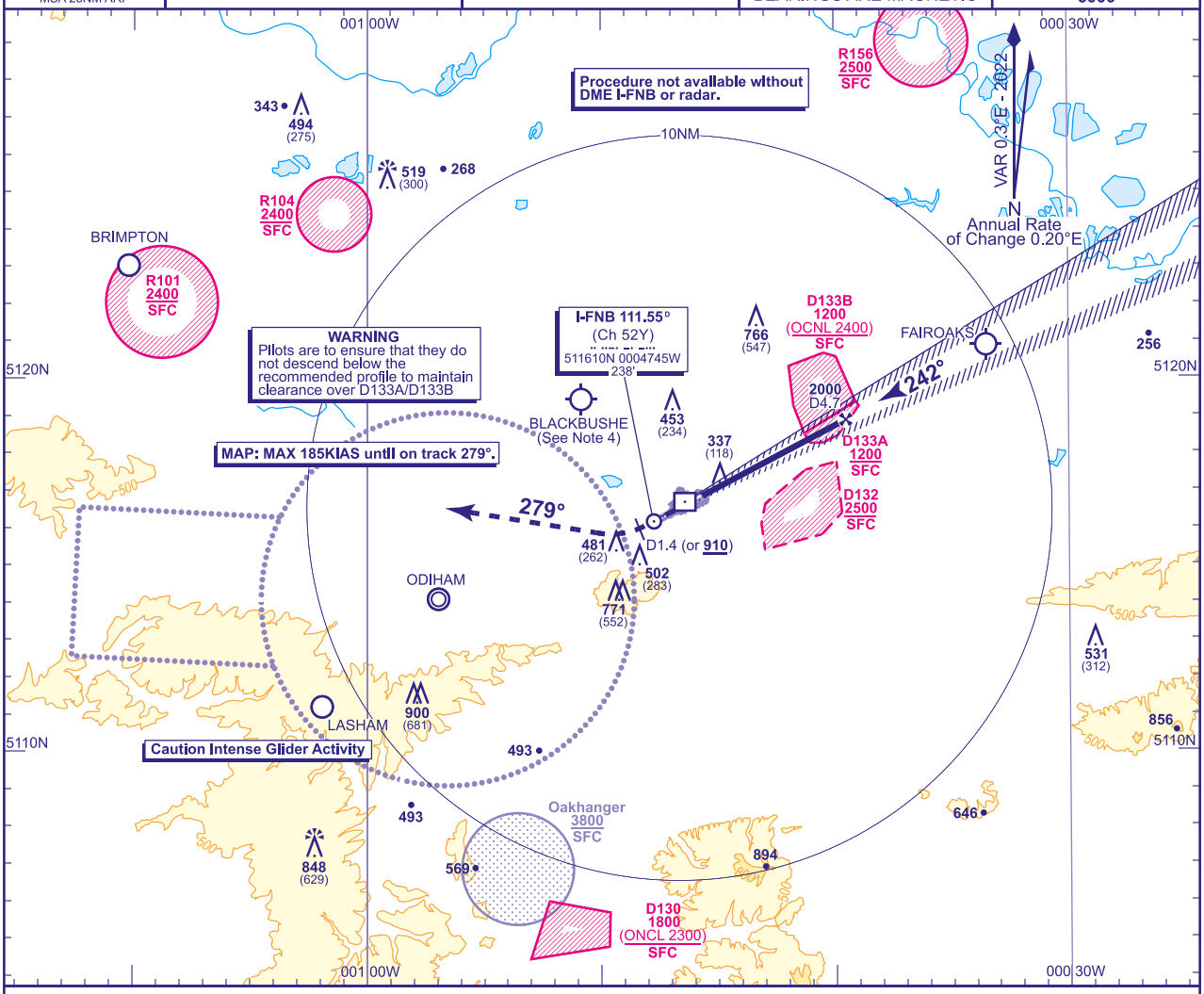
AERO INFO DATE 29 JAN 24
AD 2-EGLF-8-4

INSTRUMENT APPROACH CHART - ICAO

FARNBOROUGH ILS/DME Z RWY 24
(ACFT CAT A,B,C,D)



APP 134.355 125.250	FARNBOROUGH RADAR	AD ELEVATION	238	
TWR 122.780	FARNBOROUGH TOWER	THR ELEVATION	219	
RAD 130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION	900 AMSL (681) (ABOVE THR)	
ATIS 128.405	FARNBOROUGH INFORMATION			
		BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000

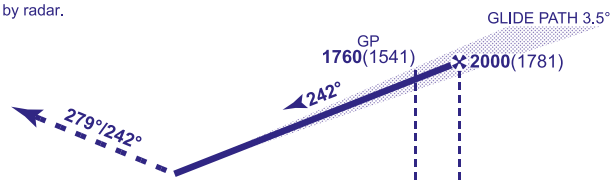


RECOMMENDED PROFILE GLIDE PATH 3.5°, 372FT/NM

DME I-FNB	4.0	3.2	3.0	2.0	1.0
ALT(HGT)	**1760**(1541)	**1460**(1241)	**1390**(1171)	**1020**(801)	**650**(431)

RDH 50 Initial and intermediate approach as directed by radar.

Continuous climb to **3000**. Initially straight ahead to **910** or **I-FNB DME 1.4** outbound, whichever is later, then turn right onto track 279° then as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**368**(149)	**378**(159)	**389**(170)	**402**(183)
VM(C)OCA (OCH AAL)	South of RWY 06/24	**880**(642)	**1020**(782)	**1170**(932)	**1170**(932)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	740	620	500

NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.

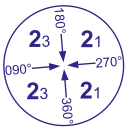
WARNING Within 0.5NM from touchdown low level turbulence and windshear may be encountered when the wind is 190°-240° at 15KT or more.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

AERO INFO DATE 29 JAN 24
AD 2-EGLF-8-5

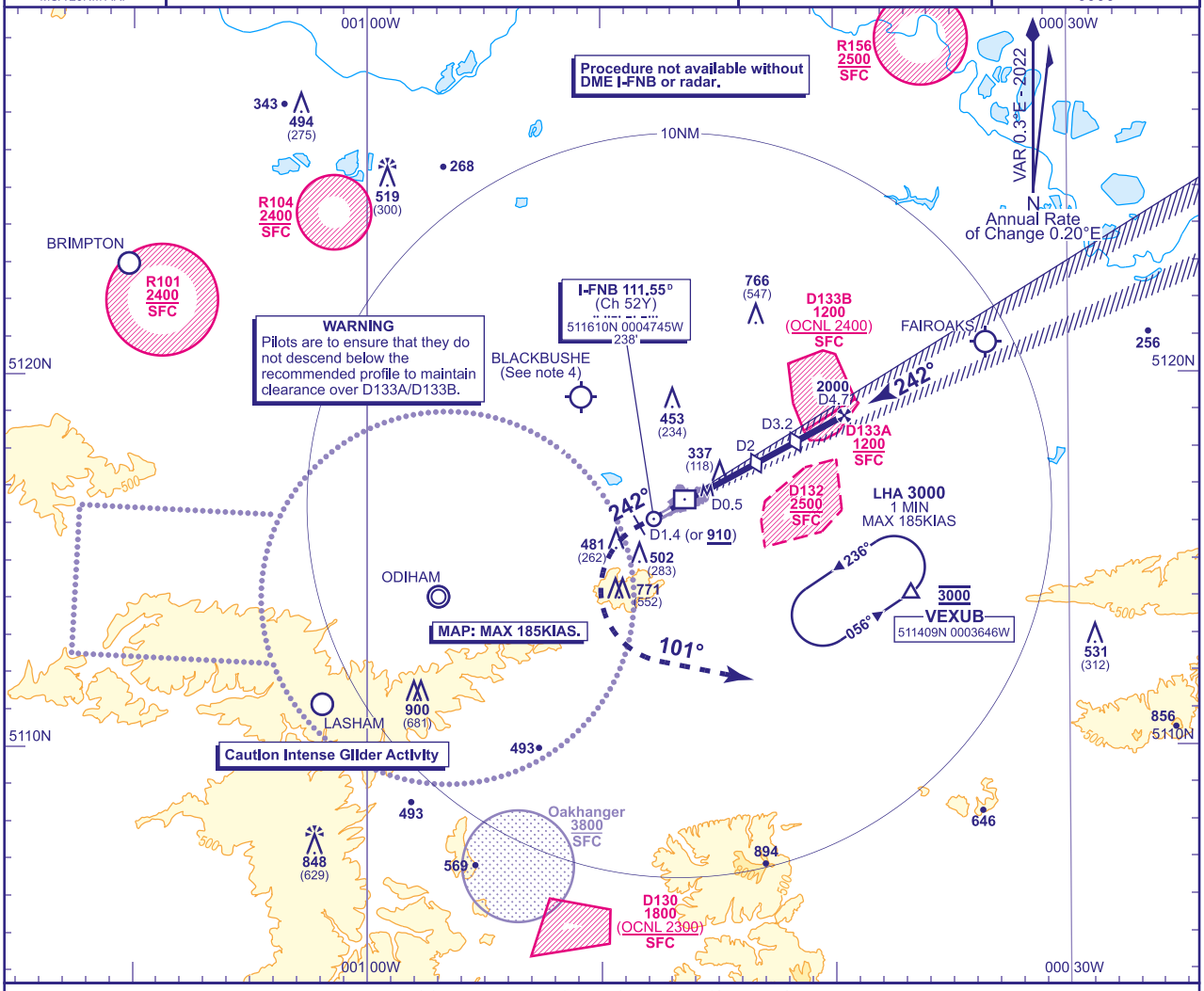
INSTRUMENT APPROACH CHART - ICAO

FARNBOROUGH LOC/DME Y RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	134.355, 125.250	FARNBOROUGH RADAR	AD ELEVATION	238	
TWR	122.780	FARNBOROUGH TOWER	THR ELEVATION	219	
RAD	130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION	900 AMSL (681) (ABOVE THR)	
ATIS	128.405	FARNBOROUGH INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



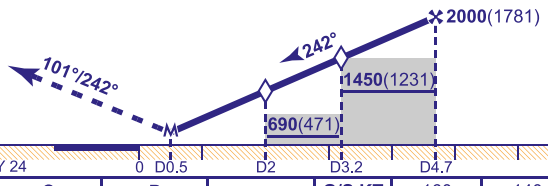
RECOMMENDED PROFILE Gradient 6.1%, 372FT/NM

DME I-FNB	4.0	3.2 **(SDF)**	3.0	2.0 **(SDF)**	1.0
ALT(HGT)	**1760**(1541)	**1460**(1241)	**1390**(1171)	**1020**(801)	**650**(431)

Initial and intermediate approach as directed by radar.

MAPt I-FNB DME 0.5

Continuous climb to **3000**. Initially straight ahead to **910** or **I-FNB DME 1.4** outbound, whichever is later, then turn left onto track 101° to intercept a track of 056° to **VEXUB** or as directed by ATC.



Aircraft Category		A	B	C	D	Rate of descent						
OCA (OCH)	Procedure	**600**(381)	**600**(381)	**600**(381)	**600**(381)		G/S KT	160	140	120	100	80
VM(C)OCA (OCH AAL)	South of RWY 06/24	**880**(642)	**1020**(782)	**1170**(932)	**1170**(932)		FT/MIN	990	870	740	620	500

NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.

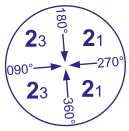
WARNING Within 0.5NM from touchdown low level turbulence and windshear may be encountered when the wind is 190°-240° at 15KT or more.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

AERO INFO DATE 29 JAN 24

INSTRUMENT APPROACH CHART - ICAO

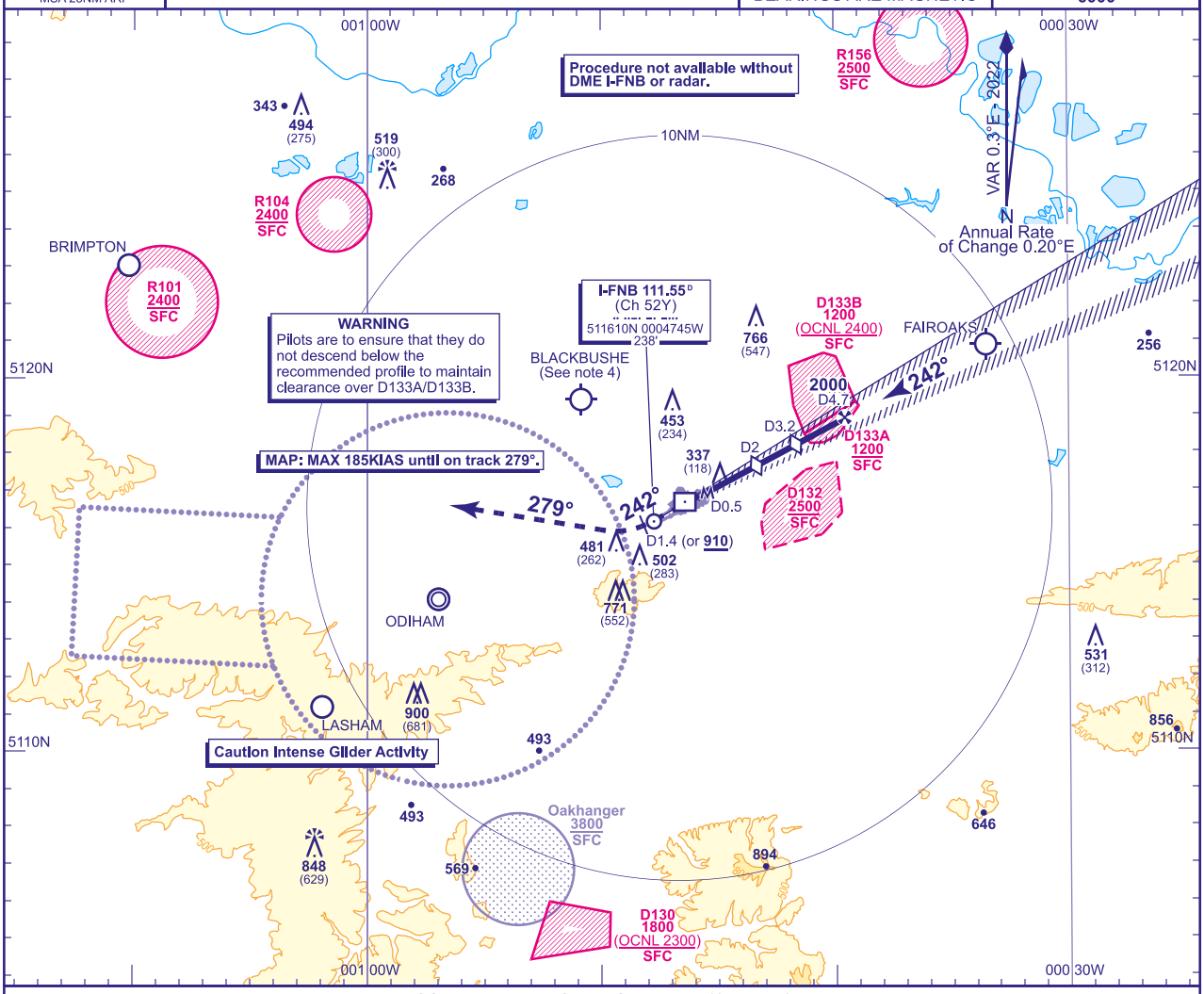
FARNBOROUGH LOC/DME Z RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP 134.355, 125.250	FARNBOROUGH RADAR	AD ELEVATION	238
TWR 122.780	FARNBOROUGH TOWER	THR ELEVATION	219
RAD 130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION	900 AMSL (681) (ABOVE THR)
ATIS 128.405	FARNBOROUGH INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 6000

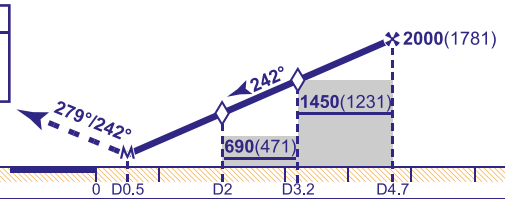


RECOMMENDED PROFILE Gradient 6.1%, 372FT/NM

DME I-FNB	4.0	3.2 **(SDF)**	3.0	2.0 **(SDF)**	1.0
ALT(HGT)	**1760**(1541)	**1460**(1241)	**1390**(1171)	**1020**(801)	**650**(431)

Initial and intermediate approach as directed by radar.

MAPt I-FNB DME 0.5
Continuous climb to **3000**. Initially straight ahead to **910** or **I-FNB DME 1.4** outbound, whichever is later, then turn right onto track 279° then as directed by ATC.



DME I-FNB zero ranged to THR RWY 24 — 0 D0.5 D2 D3.2 D4.7

Aircraft Category		A	B	C	D	Rate of descent						
OCA (OCH)	Procedure	**600**(381)	**600**(381)	**600**(381)	**600**(381)		G/S KT	160	140	120	100	80
VM(C)OCA (OCH AAL)	South of RWY 06/24	**880**(642)	**1020**(782)	**1170**(932)	**1170**(932)		FT/MIN	990	870	740	620	500

NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.

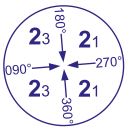
WARNING Within 0.5NM from touchdown low level turbulence and windshear may be encountered when the wind is 190°-240° at 15KT or more.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

AERO INFO DATE 29 JAN 24
AD 2-EGLF-8-7

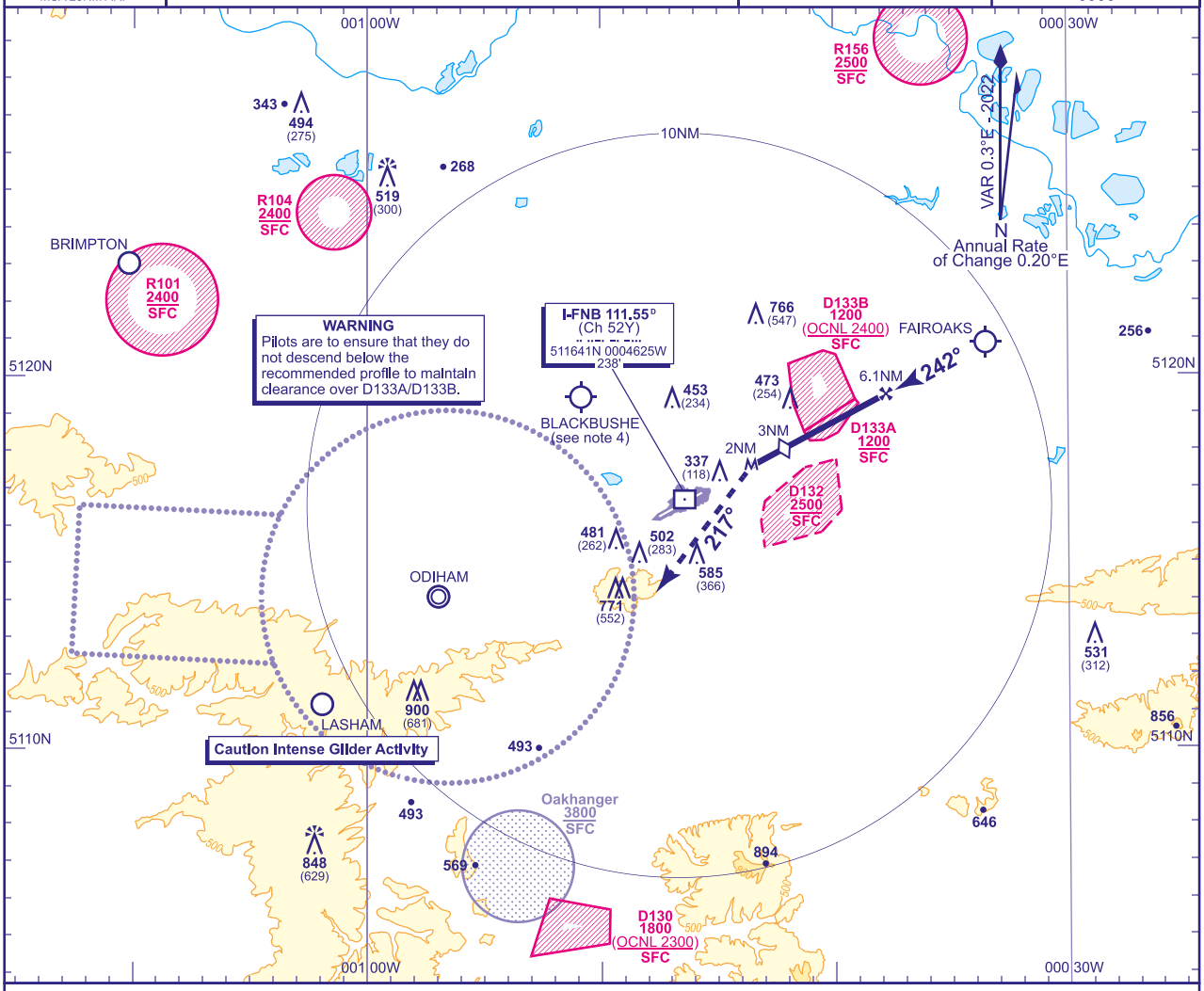
INSTRUMENT APPROACH CHART - ICAO

FARNBOROUGH SRA RTR 2NM Y RWY 24
(ACFT CAT A,B,C,D)



MSA 25NM ARP

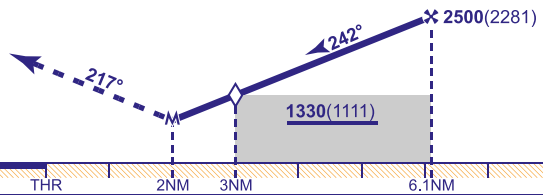
APP	134.355, 125.250	FARNBOROUGH RADAR	AD ELEVATION	238	TRANSITION ALTITUDE 6000
TWR	122.780	FARNBOROUGH TOWER	THR ELEVATION	219	
RAD	130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION 900 AMSL (681) (ABOVE THR)		
ATIS	128.405	FARNBOROUGH INFORMATION	BEARINGS ARE MAGNETIC		



RADAR ADVISORY HEIGHTS Gradient 6.1%, 372FT/NM

NM	6.1	5.0	4.0	3.0 **(SDF)**
ALT(HGT)	**2500**(2281)	**2080**(1861)	**1710**(1491)	**1330**(1111)

MAPt RTR 2NM
At the MAPt, turn left onto track 217°, climbing to **3000**, then as directed by ATC.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**970**(751)	**970**(751)	**970**(751)	**970**(751)		FT/MIN	990	870	740	620	500
VM(C)OCA (OCH AAL)	South of RWY 06/24	**970**(732)	**1020**(782)	**1170**(932)	**1170**(932)							

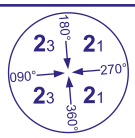
NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.
6 Radar Advisory Heights are to Touchdown.
7 No turns before MAPt.
8 Procedure not available when EGD132 or EGD133B (above **1200**) are active.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

AERO INFO DATE 29 NOV 24
AD 2-EGLF-8-8

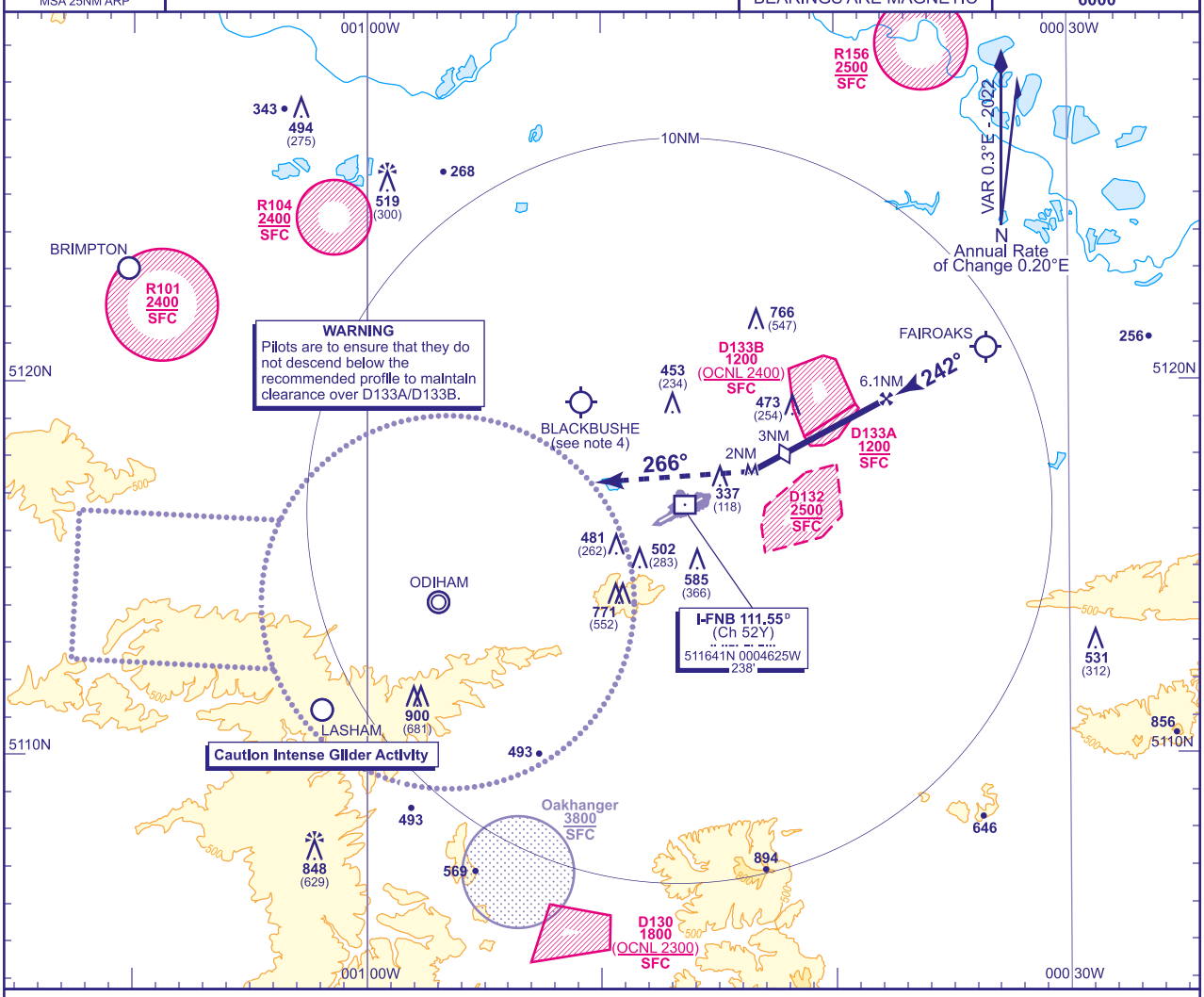
INSTRUMENT APPROACH CHART - ICAO

FARNBOROUGH SRA RTR 2NM Z RWY 24
(ACFT CAT A,B,C,D)



APP 134.355, 125.250	FARNBOROUGH RADAR	AD ELEVATION	238
TWR 122.780	FARNBOROUGH TOWER	THR ELEVATION	219
RAD 130.055	FARNBOROUGH DIRECTOR	OBSTACLE ELEVATION	900 AMSL (681) (ABOVE THR)
ATIS 128.405	FARNBOROUGH INFORMATION	BEARINGS ARE MAGNETIC	

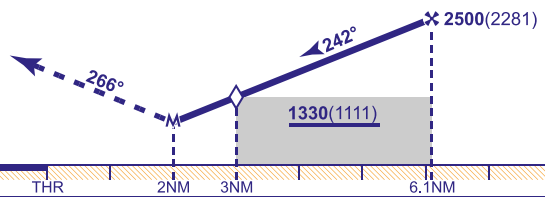
TRANSITION ALTITUDE **6000**



RADAR ADVISORY HEIGHTS Gradient 6.1%, 372FT/NM

NM	6.1	5.0	4.0	3.0 **(SDF)**
ALT(HGT)	**2500**(2281)	**2080**(1861)	**1710**(1491)	**1330**(1111)

MAPt RTR 2NM
At the MAPt, turn right onto track 266°, climbing to **3000**, then as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**970**(751)	**970**(751)	**970**(751)	**970**(751)
VM(C)OCA (OCH AAL)	South of RWY 06/24	**970**(732)	**1020**(782)	**1170**(932)	**1170**(932)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE
1 MSA are based on obstacle/terrain clearance. Pilots are to ensure safe navigation to remain clear of active Danger Areas.
2 SUAAIS available on Farnborough Radar 133.440 when open; other times London Information on 124.600.
3 CAT B,C and D no circling when EGD132 is active. CAT C and D no circling when EGD133A and EGD133B are active.
4 Pilots are reminded of the close proximity of Blackbushe aerodrome, 3.8NM north west of Farnborough and to remain clear due to intense GA activity.
5 See Loss of Communication Procedures in EGLF AD 2.22 Flight Procedures.
6 Radar Advisory Heights are to Touchdown.
7 No turns before MAPt.
8 Procedure not available when EGD132 or EGD133B (above **1200**) are active.

CHANGE (4/24): NOTE 2 DAAIS REPLACED BY SUAAIS.

AERO INFO DATE 29 JAN 24
AD 2-EGLF-8-9

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EGCL — FENLAND

EGCL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCL — FENLAND

EGCL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 524422N Long: 0000148W Mid point of Runway 18/36
2	Direction and distance from city	6 NM SE of Spalding.
3	Elevation / Reference temperature / Mean Low Temperature	6 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	0.45°E (2022) / 0.20°E
6	AD Administration	FENLAND AERO CLUB (LICENSING) LTD.
	Address	Fenland Aerodrome, Jekylls Bank, Holbeach S t. Johns, Spalding, Lincolnshire, PE12 8RQ.
	Telephone	01406-540330 (Club House and ATC - Weekends only) 01406-540461 (Flying School)
	Telefax	01406-540461 (Flying School)
	E-mail address	facsecretary@fenlandairfield.co.uk
	Web address	www.fenlandairfield.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGCL AD 2.3 OPERATIONAL HOURS

1	AD Administration	Tue-Sun 0900-1700 (0800-1600) or SS, whichever is earlier; and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Non Radio aircraft require PPR. Mondays, aerodrome not licensed, but self service AVGAS 100LL fuel available. Grass cutting could be taking place.

EGCL AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	Jet A1, AVGAS 100LL W80, W100, S80, S100.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	AVTUR Jet A1 available by prior arrangement only.

EGCL AD 2.5 PASSENGER FACILITIES

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EGCL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	Only provided on Sat & Sun.

EGCL AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGCL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGCL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 524414.93N 0000151.10W, 524433.61N 0000144.65W.

EGCL AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCL2003) 18/APPROACH 36/ TAKE-OFF	HV PYLON	524523.85N 0000124.68W	104 FT		No	
(EGCL2107) 18/APPROACH 36/ TAKE-OFF	MOBILE OBST	524433.44N 0000148.10W	24 FT		No	
(EGCL2113) 26/APPROACH 08/ TAKE-OFF	MOBILE OBST	524413.69N 0000130.12W	24 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCL2057)	BUILDING	524432.87N 0000143.11W	31 FT		No	
(EGCL2059)	BUILDING AERIAL	524430.84N 0000143.69W	36 FT		No	
(EGCL2005)	MAST	524338.12N 0000230.26W	91 FT		Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCL2072)	WATER_TOWER	524251.04N 0000241.84W	97 FT		No	

EGCL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGCL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
18	180.91°	608 x 30 M	RWY surface: Grass	524428.88N 0000147.34W 151.3 FT	THR 6.3 FT	
36	000.91°	608 x 30 M	RWY surface: Grass	524412.08N 0000147.78W 151.3 FT	THR 6.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 18 Threshold displaced by 88 M.
						RWY 36 Due to intersection with unlicensed Runway 08/26, Runway 36 edge/corner markings are absent at the threshold.

EGCL AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	**2**	**3**	**4**	**5**	**6**
18	608 M	608 M	608 M	519 M	
36	608 M	608 M	608 M	608 M	

EGCL AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
18		Green wingbars	OTHER Left/ 4.25° LITAS			Light intensity low	Red Light intensity low		

EGCL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 524430.93N 0000143.68W Flashing Green 'FE'.
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGCL AD 2.16 HELICOPTER LANDING AREA

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EGCL AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
FENLAND ATZ A circle, 2 NM radius, centred at 524422N 0000148W on longest notified runway (18/ 36)	Upper limit: 2000 FT AGL Lower limit: SFC	G	FENLAND RADIO English			

EGCL AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	FENLAND RADIO	122.930 A/G frequency.			Tue-Sun 0900-1700 (0800-1600) or SS, whichever is earlier.	ATZ hours coincident with A/G hours.

EGCL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGCL AD 2.20 LOCAL AERODROME REGULATIONS

1 AERODROME REGULATIONS

a) Aerodrome not available for use by public transport passenger flights required to use a licensed aerodrome.
b) Runway 36 is not available at night for aircraft requiring the use of licensed runway for night flying.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) **Caution:** The aerodrome is within the lateral limits of the East Anglian Military Temporary Reserved Airspace (EAMTRA).
b) All aircraft movements are confined to the marked grass strips and runway.
c) Model aircraft flying tales place in the southwest corner of the ATZ up to heights of 400 FT.

5 HELICOPTER OPERATIONS

a) Departing helicopters should air taxi to Hold 'A' before departing via the runway-in-use.

6 USE OF RUNWAYS

a) Pilots are reminded of the displaced threshold on Runway 18 and the need to keep a safe height above the road in the latter stages of approach.
b) All aircraft landing on Runway 18 must vacate right and use the 18/36 western taxiway to backtrack for parking or fuel. All aircraft landing on Runway 08/26 must backtrack on the 18/36 western taxiway to parking and fuel.
c) All aircraft are to backtrack down the western side of Runway 18/36 when required.

7 TRAINING

Not applicable

EGCL AD 2.21 NOISE ABATEMENT PROCEDURES

a) All traffic is to avoid overflying the village of Holbeach St Johns (1 NM east of the aerodrome) below 1500 FT QFE.

EGCL AD 2.22 FLIGHT PROCEDURES

a) Circuits directions: Runways 26 and 36 - LH; Runway 08 and 18 - RH. Circuit height: All Runways - 1000 FT QFE.

EGCL AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGCL AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCL-2-1

EGCL AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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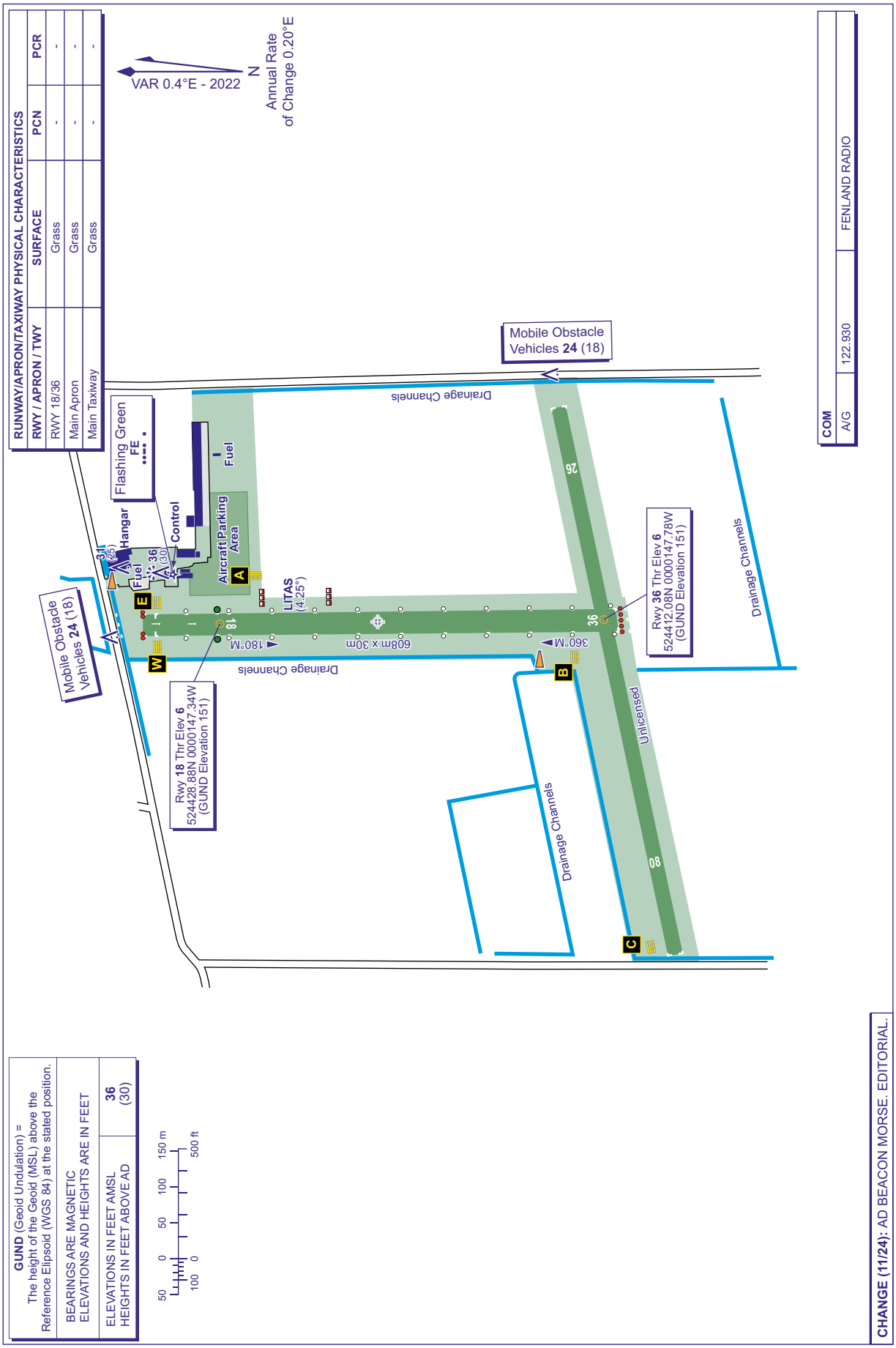
FENLAND EGCL

AD ELEV 6FT

ARP 524422N 0000148W

AERODROME CHART - ICAO



RUNWAY/APRON/TAXIWAY PHYSICAL CHARACTERISTICS			
RWY / APRON / TWY	SURFACE	PCN	PCR
RWY 18/36	Grass	-	-
Main Apron	Grass	-	-
Main Taxiway	Grass	-	-

COM		
A/G	122.930	FENLAND RADIO

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	36 (30)

50 0 50 100 150 m
100 0 500 ft

CHANGE (11/24): AD BEACON MORSE. EDITORIAL.

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EGPF — GLASGOW

EGPF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPF — GLASGOW

EGPF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 555219N Long: 0042559W
2	Direction and distance from city	6 NM West of Glasgow.
3	Elevation / Reference temperature / Mean Low Temperature	26 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	178 FT
5	Magnetic Variation / Annual Change	1.63°W (2022) / 0.22°E
6	AD Administration	GLASGOW AIRPORT LTD
	Address	Glasgow Airport, Paisley, Strathclyde PA3 2ST.
	Telephone	0344-481 5555 (Glasgow Airport Ltd) 0141-840 8029 (ATC) 0141-840 8000 (NATS Ltd) 0141-848 4141 (Airfield Operations)
	Telefax	0141-848 4354 (Glasgow Airport Ltd) 0141-840 8011 (NATS Ltd)
	Web address	www.glasgowairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All calls to ATC are recorded.

EGPF AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24 See also AD 2.18.
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	AD use subject to approval and restriction refer to AD 2.20 item 1 and to AD 2.21.

EGPF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Normal facilities. Nearest railway siding: Paisley (Greenlaw) 1.5 NM.
2	Fuel and oil types	AVTUR JET A-1.
3	Fuelling facilities/capacity	Pentland Aviation and Signature Aviation Services, by bowser.
4	De-icing facilities	Available via Handling Agent.
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Limited by arrangement.

7	Remarks	All operators, including Executive and Private General Aviation, must make prior arrangements with a handling agent for ground handling of all flights. Handling Services are available H24 from: Gama Aviation Tel: 0141-370 1900 Fax: 0141-370 1901 Email: fbo.gla@gamaaviation.com VHF: 131.965 MHz Menzies Aviation Tel: 0141-848 4264 / 0141-842 7502 Fax: 0141-842 7654 Email: gla-ops1@menziesaviation.com SITA: GLAKKEI / GLAOO7X RTF: 131.405 MHz Signature Flight Support Tel: 0141-887 8348 Fax: 0141-887 9099 URL: www.signatureflight.com VHF: 131.615 MHz Swissport GB Ltd Tel: 0141-887 1808 Fax: 0141-848 5268 Email: gla.groundhandling@swissport.com SITA: GLAKKXH/GLAPLXH VHF: 131.55 MHz

EGPF AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels on the airport and in the vicinity.
2	Restaurants	Restaurant, buffet and bars.
3	Transportation	Coaches, taxis and private car hire. Nearest railway station: Paisley (Gilmour Street) 1.25 NM.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	ATM and post box available in terminal.
6	Tourist Office	
7	Remarks	Tourist Information office available.

EGPF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A9 H24. RFF upgraded to Category A10 daily between 1100-1500. Outside the promulgated Category A10 upgrade hours, RFF can be increased on a PPR basis via Airport Coordination Limited or via Glasgow Airport Duty Manager on 01418-484510.
2	Rescue equipment	Details available on request from aerodrome.
3	Capability for removal of disabled aircraft	Light aircraft only. Contact 0141-848 4141. H24.
4	Remarks	

EGPF AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard. Winter Plan available on request.
3	Remarks	Latest information from: Snow clearance base 0141-848 4141 and 0141-848 4511/12.

EGPF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	JULIET APRON Surface: Concrete and asphalt MAIN APRON Surface: Concrete and asphalt. /Monoblock.
2	Taxiway width, surface and strength	Taxiway ALPHA: 23 M Surface: Asphalt Taxiway BRAVO: 23 M Surface: Asphalt Taxiway CHARLIE: Surface: Concrete and asphalt Restricted to 15 M. Closed to all aircraft. Taxiway DELTA: 23 M Surface: Asphalt Taxiway ECHO: 23 M Surface: Asphalt Taxiway FOXTROT: 23 M Surface: Asphalt Taxiway GOLF: 23 M Surface: Asphalt Taxiway JULIET: 12 M Surface: Asphalt Taxiway TANGO: 15 M Surface: Asphalt Taxiway WHISKEY: 7.5 M Surface: Concrete Taxiway YANKEE: Surface: Concrete and asphalt Restricted to 15 M. Taxiway ZULU: Surface: Concrete and asphalt Restricted to 15 M.
3	Altimeter checkpoint location and elevation	Apron 22 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft/Parking Docking chart.
6	Remarks	

EGPF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Nose-in parking is in operation on all aprons except the General Aviation area and cargo stands which are marshalled. All nose-in stands have stand number, yellow centre-line and guidance in the form of either Visual Docking Guidance System or AGNIS and Ground Stop Arrow. Cross reference to the taxiway, stands and numerals against the stand designator on the face of the pier is recommended to avoid any confusion. The following stands are fitted with Visual Guidance Docking System (Safedoc): 3-5, 9-11, 14-29, 30, 30L, 30R, 32-37, 37L, 37R, 38-40. The following stands are fitted with AGNIS and Ground Stop Arrow: 1, 1A, 2, 12, 64, 65, 81, 82. Marshalling is provided at the following stands, which are not fitted with Stand Entry Guidance: 6, 6A, 7, 8, 31, 61-63. The use of oversteering for any A380 operations must be used with extreme caution. Marshaller guidance is available on request via ATC. Stand 30 is the preferred A380 stand with twin upper bridges and lower bridge. Stand 37 is a contingency parking stand which requires the aircraft to be towed to stand from the N cul- de-sac under a special procedure.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Runway threshold markings and runway designators. Centre-line, touchdown zone markings and aiming points. Displaced threshold arrows on Runway 23. Yellow chevrons pre 05 threshold. Taxiway marking aid(s): Taxiway Alpha - Black and white chequered box adjacent to Charlie denoting helicopter FATO area to be kept clear. Yellow centre-line all taxiways. Enhanced edge lines on sections of Alpha and Golf. CAT I Holding points on taxiway A,B,C,D,E,F,G,Y,Z. CAT II/III Holding points on A,G. Taxiway Charlie is closed to all arriving and departing aircraft. Appropriate paint markings are displayed on both runway and taxiway. Taxiway light(s): Colour coded alternate yellow/green centreline lights installed on exit taxiways at Links A, B, D, E, F and G to indicate when an aircraft has cleared the ILS LOC sensitive area. All taxiway directional signs and holding point signs are internally illuminated to the latest ICAO standard. Ground mounted alternately flashing yellow runway guard lights operating H24, are installed at the category I holding points on Links A,B,C,D,E,F,G & Y indicating to pilots that they are at the Category I holding points when taxiing for take off. Ground mounted alternately flashing yellow runway guard lights operating in Category II/III conditions, are installed at the category II/III holding points on Links A&G, indicating to pilots that they are at the Category II/III holding points when taxiing for take off.
3	Stop bars and runway guard lights (if any)	Red stop bars signifying holding positions for ILS Category I protection for Links A, B, D, E, F and G. Red stop bars signifying holding positions of ILS CAT II/III protection for Links A and G. All available stop bars are lit H24.
4	Other runway protection measures	
5	Remarks	The apron is marked for nose-in/push-back parking only and operators should ensure that agents can supply tractor push-back facilities. Aircrew are to note that all illuminated azimuth and parallax parking stand and entry guidance systems are operated by their ground handling agent. The illumination of stand entry guidance systems should indicate that a safety check of the stand has been made by the handling agent prior to the aircraft arrival. However, it still remains the responsibility of the aircrew to satisfy themselves that the stand is safe for entry and parking. Pilots should not enter an aircraft stand unless the Stand Entry Guidance System is illuminated or a marshaller has signalled clearance to proceed. On taxiway C,Y,Z edge delineated by blue reflective linlaners. Obstacle markings. WDI: 555228.00N 0042519.81W (LGTD), 555204.59N 0042645.05W (LGTD).

EGPF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPF11990) 23/APPROACH	MAST	555742.73N 0041404.43W	800 FT	112 FT	No	
(EGPF14924) 23/APPROACH	HV PYLON	555727.33N 0041743.69W	590 FT	158 FT	No	
(EGPF14495) 05/TAKE-OFF	TWR BK MAST	555440.17N 0042203.49W	356 FT	221 FT	No	
(EGPF13829) 23/APPROACH	TREE	555309.72N 0042410.98W	107 FT	84 FT	No	
(EGPF15284) 23/APPROACH	TREE	555301.76N 0042449.74W	63 FT	46 FT	No	
(EGPF13060) 05/TAKE-OFF	LOC 05 OBS	555251.15N 0042457.72W	25 FT	9 FT	Yes Red	
(EGPF14149) 23/TAKE-OFF	TREE	555138.21N 0042721.05W	72 FT	53 FT	No	
(EGPF15443) 23/TAKE-OFF	LOC 23 OBS	555137.76N 0042714.84W	33 FT	13 FT	Yes Red	
(EGPF14033) 23/TAKE-OFF	STREETLIGHT	555135.44N 0042717.68W	49 FT	29 FT	No	
(EGPF14131) 23/TAKE-OFF	TREE	555135.40N 0042714.84W	68 FT	50 FT	No	
(EGPF15399) 05/APPROACH	TREE	554800.45N 0043227.21W	780 FT	17 FT	No	
(EGPF12615) 05/APPROACH	MAST	554551.01N 0043542.16W	701 FT	63 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPF5684)	HV PYLON	555651.30N 0042618.81W	1121 FT	97 FT	No	
(EGPF14842)	HV PYLON	555443.01N 0042654.49W	412 FT	392 FT	Yes Red	
(EGPF11983)	TWR BK AERIAL	555440.84N 0042428.56W	317 FT	140 FT	No	
(EGPF5369)	HV PYLON	555343.21N 0042731.12W	214 FT	125 FT	Yes Red	
(EGPF14698)	CHURCH SPIRE	555041.20N 0042556.59W	272 FT	214 FT	No	
(EGPF15334)	TWR BK VENT	554929.17N 0042757.92W	382 FT	140 FT	Yes Red	
(EGPF15371)	MAST	554823.99N 0042747.77W	940 FT	211 FT	Yes Red	
(EGPF6254)	HV PYLON	554705.46N 0042843.82W	923 FT	182 FT	No	
(EGPF11931)	WIND TURBINE	554649.54N 0042930.35W	939 FT	177 FT	No	
(EGPF10669)	WIND TURBINE	554517.98N 0042805.38W	1080 FT	352 FT	Yes Red	
(EGPF10686)	WIND TURBINE	554512.41N 0042430.30W	1160 FT	330 FT	Yes Red	

EGPF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 24 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	GLASGOW
10	Additional information (limitation of service, etc.)	A recording of the ATIS broadcast is available 24 hours on Tel: 0141-887 7449.

EGPF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
05	046.40°	2661 x 45 M	RWY surface: Asphalt, Grooved PCN 65/R/B/W/T	555148.53N 0042656.59W 178.2 FT	THR 26.1 FT TDZ 26.1 FT	
23	226.42°	2661 x 45 M	RWY surface: Asphalt, Grooved PCN 65/R/B/W/T	555241.07N 0042518.43W 178.2 FT	THR 20.8 FT TDZ 23.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	125 x 150 M	2932 x 280 M	90 x 92 M -			RWY 05 OFZ: Yes.
151 x 45 M	429 x 150 M	2932 x 280 M	240 x 92 M -			RWY 23 Threshold displaced by 304 M. OFZ: Yes.

EGPF AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	2658 M	2783 M	2658 M	2661 M	
23	2661 M	3090 M	2812 M	2356 M	
05	2360 M	2485 M	2360 M		Take-off from intersection with Link F.
05	2163 M	2287 M	2163 M		Take-off from intersection with Link E.
05	1661 M	1785 M	1661 M		Take-off from intersection with Link D.
23	2580 M	3009 M	2732 M		Take-off from intersection with Link A.
23	2304 M	2733 M	2455 M		Take-off from intersection with Link B.

EGPF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Green Light intensity high Flush with elevated HI green wingbars	PAPI Left/3° 60 FT 394 M	Light intensity high 914 M	Bi-directional colour coded 15 M spacing Light intensity high	Elev HI bi-directional edge with LI omni-directional component	Red		
23	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Green Light intensity high Flush with elevated HI green wingbars	PAPI Left/3° 56 FT 346 M	Light intensity high 914 M	Bi-directional colour coded 15 M spacing Light intensity high	Elev HI bi-directional edge with LI omni-directional component	Red		

EGPF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: RWY 05: 555200.20N 0042645.86W RWY 23: 555235.77N 0042538.67W Mid-point: 555224.03N 0042620.39W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes/1 second.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGPF AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF GAMA: 555222.00N 0042531.10W, 178.2 FT
2	TLOF and/or FATO elevation	TLOF GAMA: 21.0 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	FATO GAMA: 15 M x 15 M
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Refer to AD 2.20 item 5.

EGPF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
GLASGOW CTR 560400N 0042000W - 560130N 0040435W - 554434N 0040924W - 554132N 0042405W - 553700N 0042847W - 554428N 0045035W - 554600N 0044951W - 555500N 0045200W - 560400N 0042000W	Upper limit: 6000 FT ALT Lower limit: SFC	D	GLASGOW APPROACH English	6000 FT		To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
GLASGOW ATZ A circle, 2.5 NM radius, centred at 555218N 0042601W on longest notified runway (05/23)	Upper limit: 2000 FT AGL Lower limit: SFC	D	GLASGOW APPROACH English	6000 FT		

EGPF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	GLASGOW APPROACH	119.105 DOC 42 NM/ 15,000 FT.			H24	ATZ hours coincident with Approach hours.
TWR	GLASGOW GROUND	121.705 DOC 5 NM/GND. Ground Movement Control.			Winter: 0630-2130. Summer: 0530-2030. May be closed tactically during quiet traffic periods within hours of operation. Closures will be broadcast on the ATIS.	
	GLASGOW TOWER	118.805 DOC 25 NM/5500 FT.			H24	
RADAR	GLASGOW RADAR	119.105 DOC 42 NM/ 15,000 FT.			H24	
		125.255 As directed by ATC.			H24	
		128.755 As directed by ATC.			H24	
ATIS	GLASGOW ARRIVAL/ DEPARTURE INFORMATION	129.580 DOC 60 NM/ 25,000 FT.			H24	
OTHER	GLASGOW FIRE	121.600 Non-ATS Frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 0.65°W (2027)	IUU	110.100 MHz	HO	555251.73N 0042458.59W		(RWY 05) Elev: 25 FT.
ILS/GP	IUU	334.400 MHz	HO	555159.78N 0042648.79W		3° ILS Ref Datum Hgt 51.5 FT. Glidepath flags may occur when below the glidepath and to the right of the centre-line. Elev: 20 FT.
ILS/LOC III 0.66°W (2027)	IOO	110.100 MHz	HO	555138.27N 0042715.83W		(RWY 23) Elev: 33 FT.
ILS/GP	IOO	334.400 MHz	HO	555238.30N 0042536.74W		3° ILS Ref Datum Hgt 50 FT. Elev: 19 FT.
VOR/DME 0.66°W (2027) 1.0°W (2022)	GOW	101X 115.400 MHz	H24 Hours of operation for aerodrome purposes: HO	555213.81N 0042644.60W	46 FT	GOW VOR DOC: 25 NM/25,000 FT (45 NM/25,000 FT Sector R051-091). Due to terrain, coverage at low level is reduced in Sectors R346-026 and R181-201.
VOR/DME 0.71°W (2027) 0.9°W (2025)	TRN	122X 117.500 MHz	H24	551848.28N 0044701.91W	586 FT	VOR DOC: 20 NM/50,000 FT, 30 NM/50,000 FT in Sector R056-106 and 45 NM/50,000 FT in Sector R356-056. DME DOC: 100 NM/50,000 FT (60 NM/50,000 FT in Sector R076-226 and 200 NM/50,000 FT in Sector R271-001). Due to terrain effects bearing errors of greater than 4 may occur in Sector R171-181. In addition coverage at low level is reduced in Sector R066-106.
VOR 0.30°W (2027) 0.5°W (2023)	PTH	110.400 MHz	H24	562632.63N 0032206.96W		VOR DOC 20 NM/50,000 FT (60 NM/25,000 FT in Sector R211-256). No associated DME. Any DME indications should be ignored.
DME	IUU	38X 110.100 MHz	HO	555210.74N 0042602.27W	34 FT	(RWY 05) DME freq paired with ILS I-UU and I-OO. Zero Range is indicated at THR of Runway 05 and 23.
DME	IOO	38X 110.100 MHz	HO	555210.74N 0042602.27W	34 FT	(RWY 23) DME freq paired with ILS I-UU and I-OO. Zero Range is indicated at THR of Runway 05 and 23.
NDB (L) 0.65°W (2027)	GLW	331.000 kHz	HO	555211.17N 0042601.06W		Range 25 NM. Elev: 69 FT.

EGPF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Glasgow CTR.
b) All flights, including General Aviation and Military flights, subject to the prior approval of the Operations Director, Glasgow Airport Ltd and to prior notification to Airport Coordination Ltd acting as agent for Glasgow Airport Ltd. Requests for ad-hoc slot allocations should be made to ACL during working hours 0830-1700 (0730-1600) Monday to Friday by email: lonacxh@acl-uk.org; or Tel: +44 (0)161-493 1850, Fax:+44 (0)161-493 1853, or at all other times to GLAL Duty Manager on Tel: +44 (0)141-848 4510/+44(0)7831-170676. Please note – the Out of Hours service will only deal with short term ad-hoc schedule changes and new requests. All other changes must be submitted

to ACL during normal office hours. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com.

c) All pleasure, training and non-business General Aviation traffic is subject to prior notification to Air Traffic Control, preferably via AFPEx or alternative flight planning systems. The filing of a flight plan does not constitute permission to use Glasgow Airport. Restrictions may be implemented at anytime.
d) Transit flights will only be accepted with prior approval.
e) Pilots of international arriving or departing GA aircraft are responsible for presenting their passengers to Customs and Immigration. Transport to and from the Customs Office will be provided by a handling agent.
f) Airline operators are requested to note that stand availability in a diversion situation is extremely limited at Glasgow Airport, especially for wide-bodied aircraft.
g) It is a requirement that every airline using Glasgow Airport must have local orders compatible with GLAL Emergency Orders. Airlines, General Aviation operators and Flying clubs should also note that it is their responsibility to recover disabled aircraft and aircraft wreckage and have appropriate arrangements in place before commencing flying operations into the aerodrome. GLAL will act as the co-ordinating body throughout the recovery operation and has only very limited equipment which might be used to salvage disabled aircraft.
h) No aircraft are permitted to park on the ground for more than 24 hours without prior approval from GLAL.
i) Fixed Electrical Ground Power must be used wherever available and serviceable. Use of GPU and APU should be limited to minimise environmental impact.
j) Microlights and gyrocopters are not allowed to use the aerodrome unless in emergency.
k) All users of Glasgow Airport must comply with current Glasgow Airport Conditions of use.
l) Operators of A380 aircraft may designate Glasgow as a nominated diversionary aerodrome subject to prior agreement with the Airside Operations and an assessment of the facilities and infrastructure by the airline. The use of Glasgow as an alternate for A380 operations is also subject to prior CAA approval on an individual airline basis. Restrictions will be applied for handling more than two A380 aircraft at the same time.

2 GROUND MOVEMENT

a) All aircraft making requests for taxiing or towing clearance on the GMC frequency should state their location in the initial call.
b) Aircraft pushing/powering back must face the direction of taxi and be aligned on the taxiway centre-line before commencing taxi.
c) Aircrew can request ATC clearance up to 15 minutes before EOBT. Departing aircraft on first contact with Glasgow ATC must state aircraft type, stand number and the code letter of the latest ATIS received.
d) Crews should be in receipt of departure clearance prior to requesting push and start.
e) Pre-departure clearance by 'Data Clearance Link' (DCL) is available at Glasgow for suitably equipped aircraft. DCL must be compliant with ARINC 623-2 and Eurocae ED 85-A. DCL is available from EOBT -25 until EOBT +15 minutes.

DCL Clearances will not be issued if requested later than EOBT +15 minutes. Successful clearances must be ACCEPTED within 5 minutes of receipt or a 'Revert to voice' message will be received.

Do not use the free text option on DCL. Glasgow ATC are unable to interact with this and it causes the A-DCL to fail, resulting in either manual ATC intervention or revert to voice. If any data errors are detected by the system or the controller, a 'revert to voice' message will be received. If the attempt to obtain a clearance is unsuccessful the aircraft should revert to voice RTF. Further details of the DCL service may be obtained from ATC Operations on +44 (0)141-840-8029.

f) Particular attention is drawn to a roadway system that exists at the tail of all stands. Flight crew are reminded of the extreme importance of maintaining a careful lookout at all times and are at all times responsible for wing tip clearance. The taxiway lighting and guidance markings are an aid to pilots when they are operating on the manoeuvring area . Notwithstanding the taxiway guidance markings, pilots continue to remain responsible for wing tip clearance.
g) All stands are nose-in/push back. Pilots requiring services on Apron areas, including Customs and Immigration, must ensure that a suitable tow bar is available.
h) Before the Aircraft Commander calls for push-back they must ensure that the tug driver is in the tug, ready to push. Stands 6, 8, 19, 21, 30L, 30, 30R, 32, 35, 37 and 40 have 2 push-back options. ATC will specify the direction of push from these stands, and this must be passed to the ground crew. If it is not passed the tug driver will not commence push-back and clarification will be sought from the aircraft commander. If ATC issue a push from these stands, a non-standard push from any stand or a conditional push-back clearance, ATC must be advised if the Aircraft Commander is not in two-way headset communication with the tug crew.
i) A black and white chequered box adjacent to Charlie denotes the FATO area. This area should be kept clear of aircraft and vehicles unless prior ATC approval has been granted.
j) Special procedures for stand safeguarding are in place for A380 parking on stand 30. This involves additional measures to restrict vehicle movements in the immediate area. If necessary, aircraft will be held at the following locations prior to stand arrival. An Ops vehicle may be positioned to assist:

   i. After landing on R23 and vacating at G to hold short of Apron November.
   ii. After landing on R05 and vacating at A to hold abeam the ATC Control Tower.

k) In CAT 1 conditions when Runway 23 is the nominated runway in use the following applies to A380 movements:

   i. Departure

      Taxi via A to hold as required at hold A2. When cleared to line up and depart via A1. No right turns are permitted at this intersection due to runway width of 45 M and lack of turning area.

   ii. Arrival

      Vacate the runway at G taxiway.

With Runway 05 in use:

i. Departure

Taxi via G to hold G2. When cleared line up via G1 and depart.

ii. Arrival

Vacate via A or B taxiway as directed by ATC.

l) A380 aircraft – Reduced taxiway centre-line to object clearance of 47.5 M applies along taxiways:

Alpha 1 to ATC Tower: Taxiway (51 M strip)

ATC Tower to Golf 2: Taxilane (47.5 M strip)

Golf 2 to Golf 1: Taxiway (51 M strip)

m) Red light vehicle road holding lights are installed on apron roadway system cul-de-sac K, L, M and N to stop vehicle traffic during Code F movements and may be visible to aircraft.
n) Jet aircraft are to engage minimum power when operating in Area Juliet due to the proximity of light aircraft operations in this area.
o) Taxiway Yankee is used as a dual direction taxiway for light aircraft. To aid the flow of traffic, aircraft should taxi to the right or as directed by ATC.
p) Remote Holding.

i. Any requests from aircraft for remote holding require approval of Airside Operations. In cul-de-sac N pushback to remote hold nose out on the mirror stand on the opposite side of the cul-de-sac will normally be approved when the stand is not required for use.

Airside Operations will endeavour to attend to help ensure safety of the airside roads, but this is not mandated. The pushback instruction should include a reminder to face nose out e.g., “(Callsign), Push and reposition to face nose out on Stand 40 is approved”.

For the subsequent taxi off stand, an airside operations presence is required, and the aircraft should be instructed to taxi off stand at absolute power to protect the head of stand area. In this scenario, where aircraft are waiting for a CTOT improvement, controllers should use ‘SEND READY +15’ as the default ready message to allow Airside Operations time to reach the stand before the aircraft commences taxi.

Any remote hold in an area substantially away from the gate (for example area Q) will require the aircraft to taxi and then either wait with engine(s) running or shutdown in their remote hold location.

ii. Within Area Q, when being used for remote hold, marshallers assistance can be provided on request, and is mandatory for any aircraft larger than Code C. Extended towing of loaded aircraft is not permitted due to operating limitations imposed by the manufacturer to prevent overstressing the landing gear at higher weights.

3 CAT II/III OPERATIONS

a) Runways 05 and 23, subject to serviceability of the required facilities, are suitable for Category II/III operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II/III operations special ATC procedures (Low Visibility Procedures) will be applied. Pilots will be informed when these procedures are in force by ATIS or by RTF.
c) Departing Aircraft: ATC will require departing aircraft to use the Category II/III holding points at Links A2 and G2 as appropriate. Intermediate take-off points will not be used.
d) Arriving Aircraft: Vacate Runway 05/23 at Link A or Link G, unless otherwise instructed. ATC may instruct pilots to use intermediate Links when Cat II/III operations are necessary because of a low cloud ceiling and not due to poor visibility. Pilots should delay the call 'runway vacated' until the aircraft is established on the taxiway and clear of the link.
e) During CAT II/III conditions A380 will hold at A3 and G2. A380 Arrivals will vacate at A or G.
f) Ground Movement Radar (GMR) is normally available to monitor pilot 'runway vacated' reports. When GMR is not available to ATC, runway (LSA) vacation will be confirmed by receipt of a pilot report that the tail of the aircraft has passed the last of the alternate amber and green centre-line lights. (These lights denote the extent of the ILS Localizer Sensitive Area).

4 WARNINGS

a) Except for light signals ground signals will not be displayed
b) Due to the soft nature of the grass verges, pilots should exercise due caution when taxiing
c) Large numbers of Greylag/Canada Geese and Whooper Swans are present in the vicinity of the airport mainly from September to April. Flocks are regularly in excess of 100 birds and can be seen flying up to 500 FT. Active bird control is conducted with ATC liaison.

5 HELICOPTER OPERATIONS

a) ATC clearance must be obtained before ground or hover taxi commences.
b) Inbound helicopters will be routed to the threshold of the runway in use before either ground or air taxiing to their alighting point (‘H’).
c) Helicopters, inbound and outbound, are to avoid overflying airport buildings whenever possible.
d) CASEVAC helicopters will be directed by ATC to alight on the main apron taxiway, then to ground taxi to an aircraft stand.

e) Helicopters operating to and from the Gama apron must follow the taxiway centre-lines unless specific approval is given for use of the Gama FATO.
f) Procedures for use of the Gama FATO are not published publicly and are restricted only to use by helicopters in operation of medical flights to and from the Gama apron.
g) Helicopters using the Gama FATO are to avoid overflying any parked or stationary vehicles and aircraft wherever possible.

6 USE OF RUNWAYS

a) Aircraft requiring the full length of Runway 23 for take-off have to back-track the runway and turn for take-off within the extension of the runway which is 92 M long and 61 M wide. Aircraft should enter the runway at holding point B1 and taxi to the extension. Code E nor F aircraft are not permitted to execute 180º turns on Runway 05/23.
b) Pilots of departing aircraft wishing to turn right from Link A1 to use the full length of runway, should advise ATC before reaching the holding point on taxiway.
c) Link Taxiway Restrictions (Code A – E)

i. Any aircraft (Code A to E inclusive) may exit Runway 05 via A1, B1 or E1, as the turn to vacate Runway 05 via D1 and F1 is extremely sharp and would require an aircraft to make a turn of almost 180°.
ii. Any aircraft (Code A to E inclusive) may exit Runway 23 via A1, B1, D1, E1, F1 or G1. It should be noted, however, that only Code A to C (inclusive) aircraft are permitted to turn left from B1 to A1 or right turn from A1 to B1. Code D and E aircraft shall not be permitted to carry out this manoeuvre under any circumstances.
iii. Only aircraft up to 30,000 KG MTWA can exit or enter Runway 05/23 via C1.

d) Link Taxiway Restrictions (Code F)

Taxiway links are permitted for use in the following directions/circumstances for A380 movements.

Taxiway Link	Direction/Route	Restriction
ALPHA	Via ALPHA enter and vacate.	No additional restriction.
BRAVO	From SW direction only, via BRAVO enter Runway 23 turn left. Via BRAVO vacate Runway 05 turn right.	No additional restriction.
DELTA	From SW direction only, via DELTA enter Runway 05 turn right. Via DELTA vacate Runway 23 turn right.	Only to be used in contingency situations.
ECHO	From NE direction only, via ECHO enter Runway 05/23 turn right or left. Via ECHO vacate Runway 05 turn left.	Only to be used in contingency situations with use of lead vehicle.
FOXTROT	From NE direction only, via FOXTROT enter Runway 05 turn right. Via FOXTROT vacate Runway 23 turn left.	Only to be used in contingency situations. Over-steering turn from TWY F to TWY G must be used with extreme caution.
GOLF	Via GOLF enter and vacate.	No additional restriction.

e) Following runway resurfacing in 2017 the section of runway between 23 threshold to Link F exhibits fast drying capability after periods of wet conditions. This section extends to 8.5 M either side of the runway centre-line.

7 TRAINING

a) The use of the aerodrome for training purposes is subject to the permission of Airside Operations, through ATC Tel: 0141-840 8029.
b) General training flight acceptance criteria (except by prior agreement with the Head of Aerodrome Operations or deputy):

i. Flying training, including training circuits of repeated approaches, go-arounds and landings, is permitted between 0800-2200 (0700-2100);
ii. The single take-off, go-around and/or full stop landing of an aircraft on a training flight will be permitted between 0600-0800 (0500-0700) and 2200-0800 (2100-0700), subject to ATC's priorities;
iii. Visual training circuits are restricted to aircraft below 5700 KG. Aircraft above 5700 KG must carry out ILS instrument approaches and adhere to noise abatement procedures. No helicopter training is permitted without prior approval from Airside Operations and ATC.

c) Training may be curtailed if significant noise complaints are received.

EGPF AD 2.21 NOISE ABATEMENT PROCEDURES

a) Operators of all aircraft inbound or outbound from the aerodrome are required to conform to the following procedures notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger and for complying with the instructions of ATC.

i. Operators of all aircraft should ensure that at all times their aircraft conform to the noise abatement techniques laid down for that type of aircraft and that disturbance to the areas near the aerodrome is kept to a minimum.
ii. After take-off all aircraft whether operating from Runway 05 or 23 by day or night should expedite their climb to 1500 FT QFE before reducing power to maintain a minimum rate of climb of 500 FT per minute until 3000 FT QFE.

iii. For Runway 23, aircraft using the ILS shall not descend below 2000 FT QFE before intercepting the glidepath nor thereafter fly below it unless instructed by Radar. Aircraft landing without assistance from the ILS or Radar shall follow a descent path which will not result in their being at any time lower than an approach path consistent with a 3° glidepath.
iv. For Runway 05, jet aircraft using the ILS shall not descend below 2000 FT QFE before intercepting the glidepath. Propeller driven aircraft may, when instructed by Radar, be descended to 1600 FT QFE. Aircraft landing without the assistance of ILS or Radar shall follow a descent path which will not result in their being at any time lower than an approach path consistent with a 3° glidepath.
v. For visual approaches to Runways 05 or 23 the following limitations will apply: All aircraft whose MTWA exceeds 5700 KG must route via 5 NM from the runway threshold and maintain 1500 FT QFE until established on final approach.
vi. All aircraft using the aerodrome shall, after take-off or 'go- around' be operated in such a way that it will not cause more than 94 dB(A) by day (0600-2330 (0500-2230)) or 87 dB (A) by night (2330-0600 (2230-0500)) at the relevant noise monitoring points; the measured noise reading for the event will be taken as the highest recorded at any single noise monitoring terminal.
vii. Jet aircraft failing to meet the standards specified in Part II, Chapter 3, Volume 1 of Annex 16 to the convention on International Civil Aviation are not permitted to depart from Glasgow Airport between the hours of 2330-0559 (2230-0459) except in special circumstances. Such movements as may be permitted will be at the discretion of the Operations Director from whom specific written permission must be obtained in advance. The Operations Director also has discretion to permit the departure of delayed flights not meeting Chapter 3 standards in exceptional circumstances.

b) Noise Abatement Procedures.

i. The Noise Abatement Procedures specified below are compatible with ATC requirements and shall apply in both IMC and VMC.
ii. The tracks to be flown by all departing jet aircraft and by all other departing aircraft of more than 5700 KG MTWA unless otherwise instructed by ATC or unless deviations are required in the interests of safety.
iii. The Noise Abatement Procedures are incorporated in ATC Standard Instrument Departure Clearances (SID) where appropriate. IFR jet aircraft operating on routes where the SID does not incorporate the Noise Abatement Procedures will be issued with a non-standard clearance by ATC.

Take-off Runway	Noise Abatement Procedure
05	Climb straight ahead to 5 DME. Note that for aircraft departing on the SID via LUSIV, the Noise Abatement Procedures terminate at 5 DME.
23	Climb straight ahead to 5 DME.

c) For environmental reasons the use of reverse thrust/pitch should be avoided when possible.

EGPF AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) Inbound Aircraft other than on Airways

i. Aircraft wishing to enter the CTR/CTA or TMA under IFR direct from the FIR must observe the normal procedure for joining Controlled Airspace. For aircraft joining from the West a Reporting Point ROBBO (GOW RDL 275°/16 NM) is established at the TMA Boundary and pilots should anticipate joining clearance via this point.
ii. Pilots inbound to Glasgow under VFR must contact Glasgow Approach Control prior to entering the CTR/CTA and may be required by ATC to route via the published Visual Reference Points. (See paragraph 8).

b) Inbound Aircraft on Airways

i. Aircraft flying in the Airways System will be cleared into the TMA/CTR/CTA without having to request a specific entry clearance.
ii. The standard initial routes for inbound aircraft shown in the table below may be varied at the discretion of ATC (eg for traffic reasons or to allow traffic to be sequenced by radar).

c) Arrival Routes

Approach from	Via	Route
North	N560 FIR	FOYLE - GOW INBAS - FOYLE
Northeast	P600	PTH VOR - GRICE - STIRA
East	FIR	(SAB VOR) - TMA Boundry - TLA - LANAK
Southeast	N601 FIR	ABEVI - TLA - LANAK TLA - LANAK
Southwest	P600	BLACA - TRN **(Note 1)**
West	FIR	ROBBO - GOW
Northwest	AWYs	TMA Boundary - GOW

Note: *Exceptionally aircraft may be routed onwards via LANAK for tactical ATC purposes.*

In order to increase ATC flexibility Speed Limit Points (SLP) are established for arrival routes to Glasgow Airport. Inbound aircraft at FL 140 or below should normally be flown at 250 KT or less when crossing the SLPs. In certain weather conditions, or for reasons of safety, pilots may not be able to comply with the Speed Limit quoted above. In these circumstances they should inform ATC immediately, stating the minimum speed acceptable. Tactical speed control additional to the Speed Limit detailed above may be applied by the Radar Controller as detailed at paragraph d v.

d) Approach Procedures with Radar Control

i. When Glasgow inbound traffic is being sequenced by Radar, the Approach Procedures will be flown under directions from the Approach Radar Controller and will consist of that part of the approach between the Terminal Holding Fix and the Final Approach Path. When Holding Procedures are not in use, radar sequencing may commence before the Terminal Holding Fix.
ii. Pilots should plan their flight profile in such a manner as to be able to achieve the Minimum Holding Level at the appropriate holding point.
iii. When an aircraft is under Approach Radar Control, changes of heading or Flight Level/Altitude will be made only on instructions from the Radar Controller except in the case of radio communication failure in the aircraft or at the Radar Unit.
iv. Headings and Flight Levels/Altitudes at which to leave the holding areas will be passed by ATC. Radar vectors will be given and descent clearance will include an estimate of track distance to touchdown. Further distance information will be given between the initial descent clearance and intercept heading to the ILS.
v. Speed Control may be applied on a tactical basis to the extent determined necessary by the Radar Controller. Aircraft unable to conform to the speeds specified by the Radar Controller should inform him immediately and state what speeds will be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as is feasible within their own operational constraints, and should advise ATC if circumstances necessitate a change of speed for aircraft performance reasons.
vi. GPWS: Special Procedure for Radar Vectoring to Runway 23

1. In order to minimise the risk of nuisance GPWS warnings generated by the profile of the terrain in the vicinity of the Final Approach Track, a special procedure is in force for flights being radar vectored to Runway 23.
2. An essential element of the special procedure is the Speed Limit detailed in paragraph 4. Pilots exceeding the Speed Limit can expect to receive GPWS terrain alerts during the turn onto final approach. Pilots who are unable to comply with the Speed Limit of 250 KT due to weather conditions or operational safety must inform ATC immediately, stating the minimum speed acceptable.
3. Within the Radar Vectoring Area (RVA), and north of a line 105°/285° MAG through *555853N 0041340W (a point 9 NM from the runway 23 threshold on the extended centre-line) the minimum altitude allocated by ATC when radar vectoring aircraft will be 3500 FT.
4. ATC will not issue clearance for aircraft to descend below 3500 FT whilst they are north of the line described in paragraph d vi (2) unless the aircraft is established on the ILS localizer or on the Final Approach Track of a Surveillance Radar Approach or radar vectored VOR/ DME approach to Runway 23.

vii. In the event of radar failure, new instructions will be issued to each aircraft under radar control and the procedures as defined for approach without radar control will be put into effect.

e) Approach Procedures without Radar Control

When inbound traffic is not being sequenced by Radar, aircraft will be cleared from the Terminal Holding Facility via GOW VOR to carry out an Instrument Approach Procedure appropriate to the landing direction.

2 RADIO COMMUNICATIONS FAILURE PROCEDURES

In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedures notified at ENR 1.1.3 with the exceptions detailed below:

a) When complete communication failure occurs in the aircraft before ETA or before EAT when this has been received and acknowledged, the aircraft will:

i. Fly to the appropriate holding point;
ii. hold at the last assigned level until the last acknowledged ETA plus 10 minutes or EAT when this has been given;
iii. route direct to GOW at last assigned level;
iv. then commence descent for landing in accordance with the procedure detailed on the IAP charts and effect a landing within 30 minutes (or later if able to land visually).

b) If complete radio communication failure occurs after an aircraft has reported to ATC on reaching the holding point, the aircraft will:

i. Maintain the last assigned holding level at the appropriate holding point until:

1. ATA over holding point plus 10 minutes or 10 minutes after the last acknowledged communication with ATC, whichever is the later; or
2. EAT when this has been received and acknowledged;

ii. route direct to GOW at last assigned level;
iii. then commence descent for landing in accordance with the procedure detailed on the Instrument Approach charts and effect a landing within 30 minutes (or later if able to land visually).

c) In the event of complete radio failure in an aircraft which has been cleared for an IFR inter-aerodrome flight within the Scottish TMA the pilot will adopt the appropriate procedure as follows, depending upon the phase of flight:

i. If the aircraft is receiving a radar service and is within the RVA of the destination aerodrome, the pilot will adopt the appropriate loss of communication procedure for the runway-in-use as detailed in the RVA information at AD 2-EGPF-5-1. Landing must be effected within 30 minutes (or later if able to land visually);
ii. if the aircraft is either not receiving a radar service or is receiving a radar service but has not yet arrived within the RVA of the destination aerodrome, the pilot will proceed to the appropriate holding point at the destination aerodrome at the last assigned level or 4000 FT whichever is higher. He will then adopt the procedures in paragraph's b and c.

d) The routes and altitudes to be used when leaving the TMA and CTR/CTA in accordance with the procedures at ENR 1.1.3 are shown in the table; the route to be followed is dependent on the position of the aircraft at the time the decision to leave the CTR/CTA is made.

Position at time of decision	Route
Glasgow Airport GOW VOR	Track 035°T from facility at 3500 FT ALT until crossing the Glasgow CTR Boundary.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Non-Airways IFR departing flights from Glasgow routeing in the open FIR to the West should anticipate ATC clearance to leave Controlled Airspace at ROBBO (GOW RDL 275°/16 NM), normally at an altitude below 6000 FT.
b) North Atlantic Departures

i. Due to the proximity of the Shanwick Oceanic boundary to Glasgow, pilots must consider timescales for submitting an 'RCL'. Refer to ENR 2.2, paragraph 3.8.2 for details.

4 SPEED LIMIT

a) A speed limitation of 250 KT applies to all aircraft whilst flying below FL 100.

5 VFR FLIGHTS

a) VFR flights in the CTR/CTA will be given routeing instructions and /or altitude restrictions in order to integrate VFR flights with other traffic.
b) Pilots should anticipate routeing instructions via the Visual Reference Points detailed in paragraph 8 or the routes detailed in paragraph 7.
c) Pilots of VFR flights are reminded of the requirement to remain in VMC at all times and to comply with the relevant parts of SERA and Rules of the Air, and must advise ATC if at any time they are unable to comply with the instructions issued.
d) For VFR flights at night, pilots should exercise caution and increased vigilance when identifying, and routing via, Ardmore Point and Inverkip Power Station VRPs.
e) **Helicopters:** Whenever possible helicopter flights in the Glasgow CTR/CTA will be cleared on direct routeings under VFR (or, when requested at night in the Glasgow Control Zone, on Special VFR clearance in accordance with the procedures for Special VFR flights).

6 SPECIAL VFR CLEARANCE

a) Clearance may be requested for Special VFR flight in IMC or at night within the Glasgow Control Zone and will be given whenever the traffic situation permits. These flights are subject to the general conditions laid down for Special VFR flights.
b) Special VFR clearance will include routeing and maximum altitude instructions and may not necessarily be confined to the Entry/Exit Lanes detailed at paragraph 7. Pilots holding a Private Pilots Licence (Aeroplanes) are reminded of the visibility requirements of Special VFR flights laid down in Schedule 8 of the Air Navigation Order 2005 and in the related notification at ENR 1-4-6, note 4, which may require them to request routeing via the notified Entry/Exit Lanes
c) Pilots are reminded that they must at all times when operating on Special VFR clearance, remain clear of cloud and in sight of the surface and in flight conditions which will enable them to determine their flight path and keep clear of obstacles. Due to the nature of the terrain in the vicinity of Glasgow Airport radar vectoring will not normally be applied to aircraft operating on Special VFR clearance.
d) Pilots are reminded that a Special VFR clearance applies only to flight within the CTR and does not extend to flight within the Glasgow CTAs or the surrounding Airspace of the Scottish TMA.
e) Special VFR clearance will not normally be granted for flights operating in VMC or for flights by aircraft exceeding 5700 KG MTWA.

7 ENTRY/EXIT LANES

a) To permit aircraft to operate to and from Glasgow Airport in IMC but not under IFR the following entry/exit lanes have been established for use, under the conditions stated, as follows:

i.

1. A main lane 3 NM wide, with centre-line the middle of the River Clyde, extending from the northwestern boundary of the Glasgow Control Zone following the course of the River Clyde to the point at which it joins the Glasgow Aerodrome Traffic Zone;
2. a branch lane, 3 NM wide, extending from 555954N 0043440W (a point on the northern boundary of the Glasgow Control Zone near Alexandria VRP), southwards, with centre-line based on the River Leven, to Dumbarton, thence to 555550N 0043345W (a point on the River Clyde where the main lane is joined);
3. a lane 3 NM wide, centred on the A726 road extending from the Eastern edge of the Glasgow Control Zone at East Kilbride VRP to the Glasgow Aerodrome Traffic Zone.

ii. use of the lanes is subject to clearance by Glasgow ATC and the carriage of the Glasgow Approach Control frequency;
iii. aircraft using the lanes must remain clear of cloud and in sight of the ground, or water, not above 3000 FT (Glasgow QNH), and in flight visibility of not less than 3 KM;

iv. an aircraft using a lane shall keep the centre-line on its left, unless otherwise instructed by ATC for separation purposes. In these circumstances ATC will pass traffic information to the aircraft concerned;
v. aircraft using the lanes when the reported visibility at Glasgow Airport is in excess of 4 KM may be instructed by ATC, dependant upon the runway-in-use at Glasgow Airport to fly:

1. between Glasgow Airport and Greenock/Ardmore Point; north of the north bank or south of the south bank of the River Clyde; or
2. between Glasgow Airport and Loch Lomond (Alexandria); north of the Clyde/east of the Leven or south of the Clyde/west of the Leven;
3. between Glasgow Airport and East Kilbride, north of the A726 or south of the A726.

vi. pilots of aircraft are responsible for maintaining adequate clearance from the ground or other obstacles.

b) Additionally, to permit the effective integration of traffic, flights operating in VMC and under VFR may be required by ATC to follow these routes as detailed in paragraph 5.

8 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

9 MICROLIGHT OPERATIONS IN THE GLASGOW CONTROL ZONE/CONTROL AREAS

a) Clearances for microlight aircraft to operate within the Glasgow CTR/CTA may be issued under the standard conditions for access to Class D Airspace under VFR.
b) ATC Clearance must be requested from Glasgow Radar on channel 119.105. Non-radio operations are not permitted.
c) Microlight pilots should plan their flights to remain at least 3 NM from the Runway 05/23 extended centre-line or, if crossing the extended centre-line, to remain at or below 1000 FT ALT and at a range of not less than 7 NM from Glasgow Airport. More direct routings may be available subject to prevailing traffic conditions and controller workload.

10 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the Glasgow controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Glasgow Radar, channel 119.105, are encouraged to select SSR code 2620.

555840N 0050000W - 554333N 0050000W -
553302N 0042918W - 553627N 0035327W -
554806N 0035411W - 555724N 0035417W -
561150N 0034633W - 560900N 0042141W -
555840N 0050000W.

b) Selection of 2620 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Glasgow controlled airspace at all times.
c) Whilst squawking 2620, pilots should be aware that Glasgow Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 2620 shall be deselected.

EGPF AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGPF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPF-2-1
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO
AD 2.EGPF-2-2
AERODROME CHART A380 GROUND MOVEMENT - ICAO
AD 2.EGPF-2-3
CONTROL ZONE and CONTROL AREA CHART - ENTRY/EXIT LANES and VRPS
AD 2.EGPF-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGPF-5-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - TEXT

AD 2.EGPF-5-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) NORBO (JET AIRCRAFT ONLY) - ICAO
AD 2.EGPF-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) LUSIV (NON-JET AIRCRAFT ONLY) - ICAO
AD 2.EGPF-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) TALLA (NON-JET AIRCRAFT ONLY) - ICAO
AD 2.EGPF-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) TURNBERRY (NON-JET AIRCRAFT ONLY) - ICAO
AD 2.EGPF-6-4
STANDARD DEPARTURE CHART - INSTRUMENT (SID) FOYLE - ICAO
AD 2.EGPF-6-5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) LOMON - ICAO
AD 2.EGPF-6-6
STANDARD DEPARTURE CHART - INSTRUMENT (SID) ROBBO - ICAO
AD 2.EGPF-6-7
STANDARD DEPARTURE CHART - INSTRUMENT (SID) CLYDE - ICAO
AD 2.EGPF-6-8
STANDARD DEPARTURE CHART - INSTRUMENT (SID) PERTH - ICAO
AD 2.EGPF-6-9
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) AGPED 1G - ICAO
AD 2.EGPF-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) PTH 1G - ICAO
AD 2.EGPF-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) APPLE 1G RIBEL 1G - ICAO
AD 2.EGPF-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BRUCE 1G - ICAO
AD 2.EGPF-7-4
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ERSON 1G - ICAO
AD 2.EGPF-7-5
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BLACA 1G - ICAO
AD 2.EGPF-7-6
STANDARD INSTRUMENT ARRIVAL CODING TABLES AGPED 1G PTH 1G APPLE 1G RIBEL 1G
AD 2.EGPF-7-7
STANDARD INSTRUMENT ARRIVAL CODING TABLES BRUCE 1G ERSON 1G BLACA 1G
AD 2.EGPF-7-8
RNAV HOLD CODING TABLE STIRA LANAK FYNER FOYLE
AD 2.EGPF-7-9
INSTRUMENT APPROACH CHART ILS/DME/VOR OR NDB(L) RWY 05 - ICAO
AD 2.EGPF-8-1
INSTRUMENT APPROACH CHART LOC/DME/VOR OR NDB(L) RWY 05 - ICAO
AD 2.EGPF-8-2
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 05 - ICAO
AD 2.EGPF-8-3
INSTRUMENT APPROACH CHART VOR/DME RWY 05 - ICAO
AD 2.EGPF-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 05 - ICAO
AD 2.EGPF-8-5
INSTRUMENT APPROACH CHART ILS/DME/VOR OR NDB(L) RWY 23 - ICAO
AD 2.EGPF-8-6
INSTRUMENT APPROACH CHART LOC/DME/VOR OR NDB(L) RWY 23 - ICAO
AD 2.EGPF-8-7
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 23 - ICAO
AD 2.EGPF-8-8
INSTRUMENT APPROACH CHART VOR/DME RWY 23 - ICAO
AD 2.EGPF-8-9
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 23 - ICAO
AD 2.EGPF-8-10

EGPF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 555219N 0042559W

AD ELEV 26FT

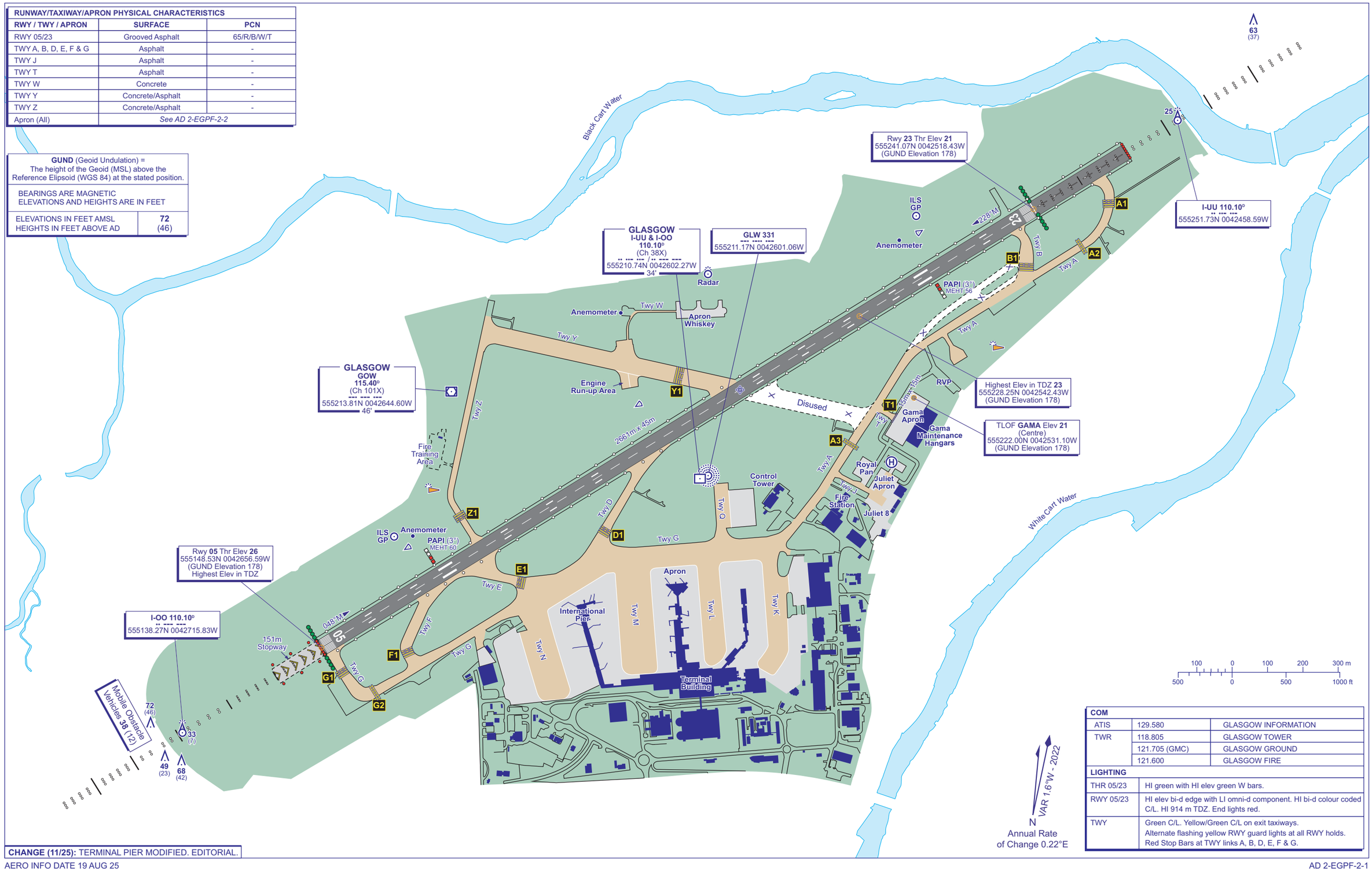
GLASGOW
EGPF

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**PCN**
RWY 05/23	Grooved Asphalt	65/R/B/W/T
TWY A, B, D, E, F & G	Asphalt	-
TWY J	Asphalt	-
TWY T	Asphalt	-
TWY W	Concrete	-
TWY Y	Concrete/Asphalt	-
TWY Z	Concrete/Asphalt	-
Apron (All)	*See AD 2-EGPF-2-2*	

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	**72**
HEIGHTS IN FEET ABOVE AD	(46)



COM		
ATIS	129.580	GLASGOW INFORMATION
TWR	118.805	GLASGOW TOWER
	121.705 (GMC)	GLASGOW GROUND
	121.600	GLASGOW FIRE

LIGHTING	
THR 05/23	HI green with HI elev green W bars.
RWY 05/23	HI elev bi-d edge with LI omni-d component. HI bi-d colour coded C/L. HI 914 m TDZ. End lights red.
TWY	Green C/L. Yellow/Green C/L on exit taxiways. Alternate flashing yellow RWY guard lights at all RWY holds. Red Stop Bars at TWY links A, B, D, E, F & G.

N
VAR 1.6°W - 2022
Annual Rate of Change 0.22°E

CHANGE (11/25): TERMINAL PIER MODIFIED. EDITORIAL.

AERO INFO DATE 19 AUG 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

ARP 555219N 0042559W

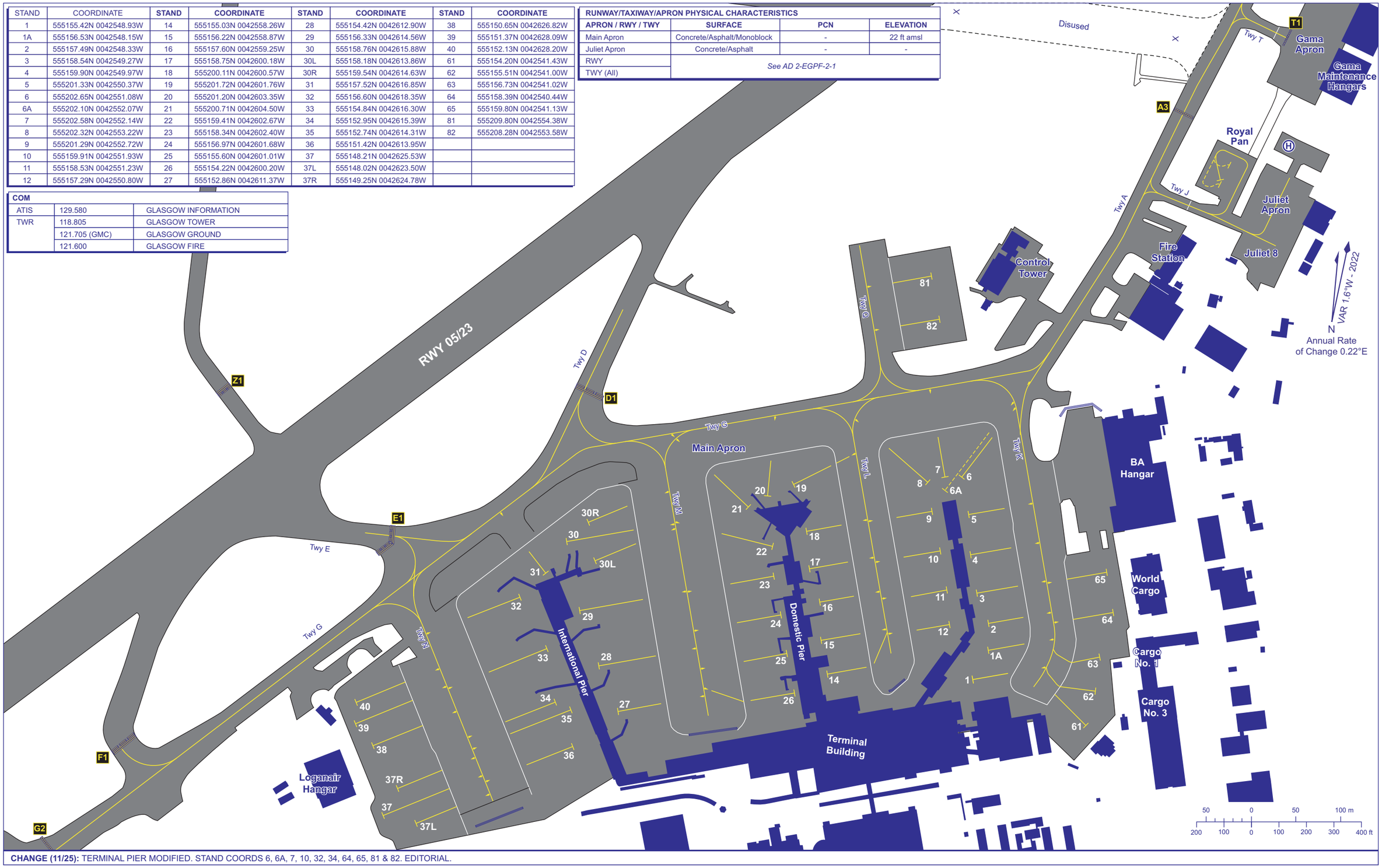
AD ELEV 26FT

GLASGOW
EGPF

STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE
1	555155.42N 0042548.93W	14	555155.03N 0042558.26W	28	555154.42N 0042612.90W	38	555150.65N 0042626.82W
1A	555156.53N 0042548.15W	15	555156.22N 0042558.87W	29	555156.33N 0042614.56W	39	555151.37N 0042628.09W
2	555157.49N 0042548.33W	16	555157.60N 0042559.25W	30	555158.76N 0042615.88W	40	555152.13N 0042628.20W
3	555158.54N 0042549.27W	17	555158.75N 0042600.18W	30L	555158.18N 0042613.86W	61	555154.20N 0042541.43W
4	555159.90N 0042549.97W	18	555200.11N 0042600.57W	30R	555159.54N 0042614.63W	62	555155.51N 0042541.00W
5	555201.33N 0042550.37W	19	555201.72N 0042601.76W	31	555157.52N 0042616.85W	63	555156.73N 0042541.02W
6	555202.65N 0042551.08W	20	555201.20N 0042603.35W	32	555156.60N 0042618.35W	64	555158.39N 0042540.44W
6A	555202.10N 0042552.07W	21	555200.71N 0042604.50W	33	555154.84N 0042616.30W	65	555159.80N 0042541.13W
7	555202.58N 0042552.14W	22	555159.41N 0042602.67W	34	555152.95N 0042615.39W	81	555209.80N 0042554.38W
8	555202.32N 0042553.22W	23	555158.34N 0042602.40W	35	555152.74N 0042614.31W	82	555208.28N 0042553.58W
9	555201.29N 0042552.72W	24	555156.97N 0042601.68W	36	555151.42N 0042613.95W		
10	555159.91N 0042551.93W	25	555155.60N 0042601.01W	37	555148.21N 0042625.53W		
11	555158.53N 0042551.23W	26	555154.22N 0042600.20W	37L	555148.02N 0042623.50W		
12	555157.29N 0042550.80W	27	555152.86N 0042611.37W	37R	555149.25N 0042624.78W		

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**PCN**	**ELEVATION**
Main Apron	Concrete/Asphalt/Monoblock	-	22 ft amsl
Juliet Apron	Concrete/Asphalt	-	-
RWY	*See AD 2-EGPF-2-1*		
TWY (All)			

COM		
ATIS	129.580	GLASGOW INFORMATION
TWR	118.805	GLASGOW TOWER
	121.705 (GMC)	GLASGOW GROUND
	121.600	GLASGOW FIRE



CHANGE (11/25): TERMINAL PIER MODIFIED. STAND COORDS 6, 6A, 7, 10, 32, 34, 64, 65, 81 & 82. EDITORIAL.

AERO INFO DATE 19 AUG 25

AERODROME CHART
A380 GROUND MOVEMENT - ICAO

ARP 555219N 0042559W

AD ELEV 26FT

GLASGOW
EGPF



CHANGE (6/25): HOT SPOTS REMOVED.

AERO INFO DATE 31 MAR 25

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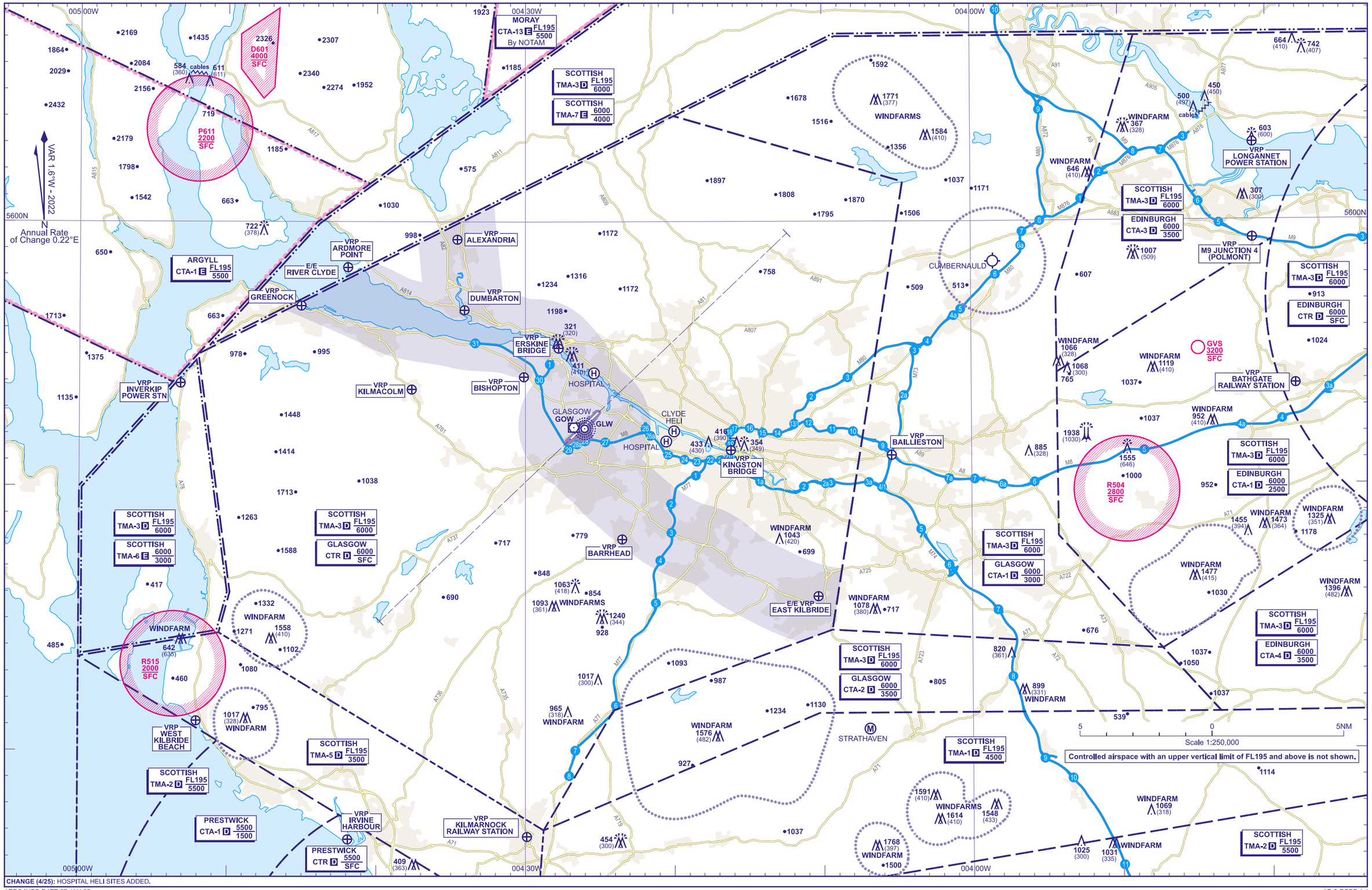
CONTROL ZONE AND CONTROL AREA CHART - ENTRY/EXIT LANES AND VRPs

GLASGOW


005 00W
004 30W
004 00W
005 00W
004 30W
004 00W
5600N
5600N
VAR 1.6°W - 2022
N
Annual Rate of Change 0.22°E
MORAY CTA-13 E FL195 5500 By NOTAM
SCOTTISH TMA-3 D FL195 6000
SCOTTISH TMA-7 E 6000 4000
ARGYLL CTA-1 E FL195 5500
SCOTTISH TMA-3 D FL195 6000
EDINBURGH CTA-3 D 6000 3500
SCOTTISH TMA-3 D FL195 6000
EDINBURGH CTR D 6000 SFC
SCOTTISH TMA-3 D FL195 6000
SCOTTISH TMA-6 E 6000 3000
GLASGOW CTR D 6000 SFC
SCOTTISH TMA-5 D FL195 3500
SCOTTISH TMA-2 D FL195 5500
PRESTWICK CTA-1 D 5500 1500
PRESTWICK CTR D 5500 SFC
SCOTTISH TMA-3 D FL195 6000
GLASGOW CTA-2 D 6000 3500
SCOTTISH TMA-1 D FL195 4500
SCOTTISH TMA-3 D FL195 6000
GLASGOW CTA-1 D 6000 3000
SCOTTISH TMA-3 D FL195 6000
EDINBURGH CTA-4 D 6000 3500
SCOTTISH TMA-3 D FL195 6000
EDINBURGH CTA-1 D 6000 2500
SCOTTISH TMA-2 D FL195 5500
P611 2200 SFC
D601 4000 SFC
R515 2000 SFC
R504 2800 SFC
GVS 3200 SFC
VRP ARDMORE POINT
E/E RIVER CLYDE
VRP GREENOCK
VRP ALEXANDRIA
VRP DUMBARTON
VRP ERSKINE BRIDGE
VRP BISHOPTON
VRP KILMACOLM
VRP INVERKIP POWER STN
VRP WEST KILBRIDE BEACH
VRP IRVINE HARBOUR
VRP KILMARNOCK RAILWAY STATION
VRP BARRHEAD
E/E VRP EAST KILBRIDE
VRP KINGSTON BRIDGE
VRP BAILLIESTON
VRP LONGANNET POWER STATION
VRP M9 JUNCTION 4 (POLMONT)
VRP BATHGATE RAILWAY STATION
CUMBERNAULD
STRATHAVEN
GLASGOW GOW GLW
CLYDE HELI
HOSPITAL
HOSPITAL
WINDFARMS
WINDFARM 367 (328)
WINDFARM 646 (410)
WINDFARM 1066 (328)
WINDFARM 1068 (300)
WINDFARM 1119 (410)
WINDFARM 952 (410)
WINDFARM 1325 (351)
WINDFARM 1473 (364)
WINDFARM 1455 (394)
WINDFARM 1477 (415)
WINDFARM 1396 (482)
WINDFARM 1043 (420)
WINDFARM 1078 (380)
WINDFARM 1576 (482)
WINDFARM 1069 (318)
WINDFARMS 1614 (410)
WINDFARM 1768 (397)
WINDFARM 1017 (328)
WINDFARM 1558 (410)
WINDFARM 642 (635)
WINDFARMS 1093 (361)
WINDFARM 965 (318)
WINDFARM 899 (331)
WINDFARM 820 (361)
WINDFARM 1017 (300)
WINDFARM 1031 (335)
1771 (377)
1584 (410)
1592
1938 (1030)
1555 (646)
1000
1007 (509)
1063 (418)
1240 (344)
1017 (300)
1591 (410)
1548 (433)
1025 (300)
885 (328)
664 (410)
742 (407)
603 (600)
307 (300)
450 (450)
500 (497)
cables
584 (360)
611 (611)
cables
722 (378)
321 (320)
411 (410)
416 (390)
354 (349)
433 (430)
454 (300)
409 (363)
928
927
1678
1516
1356
1897
1808
1870
1795
1506
1037
1171
758
509
513
607
676
805
1234
1130
1093
987
1037
1050
1037
1114
1024
913
1030
1178
952
1037
1037
1037

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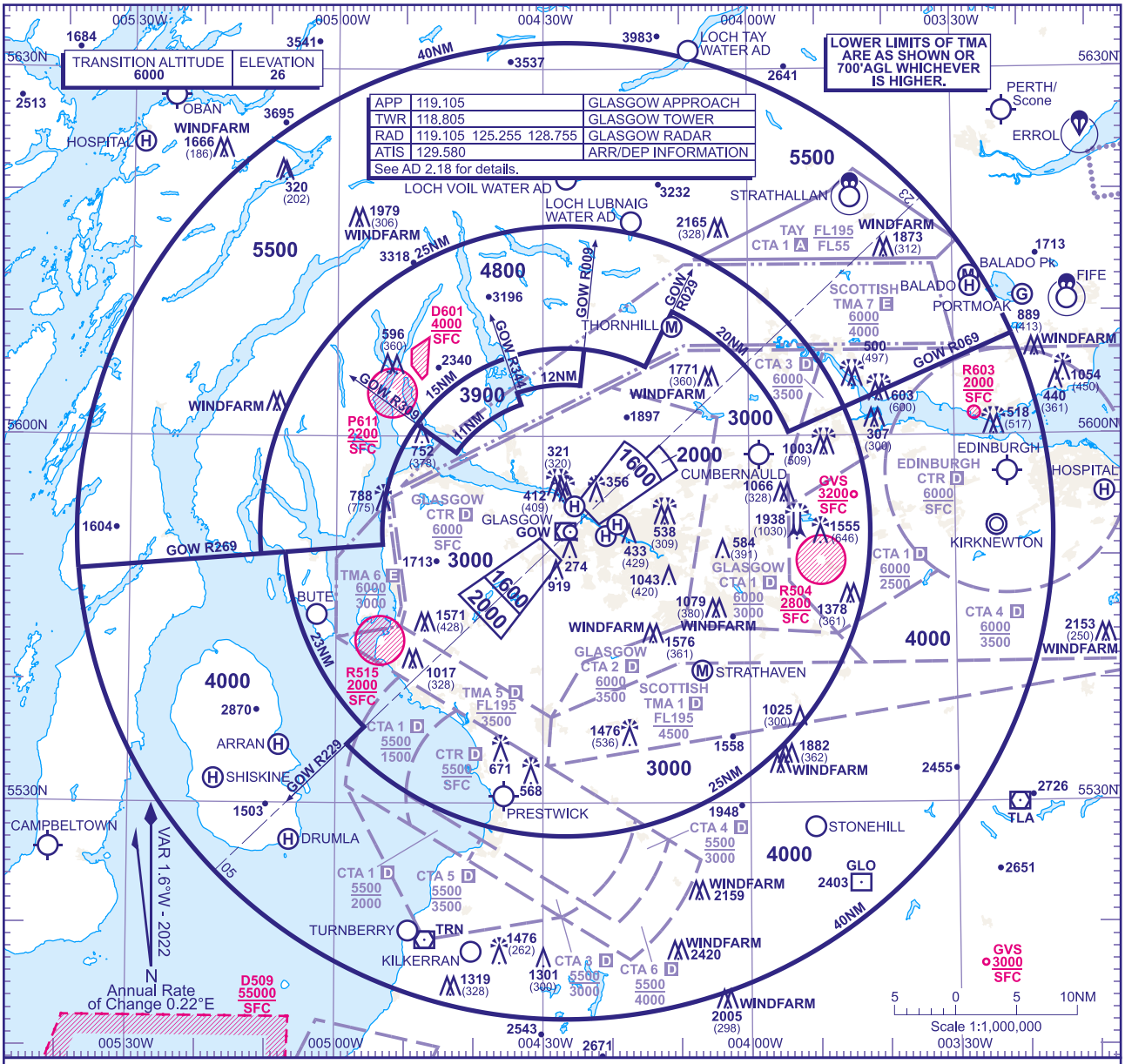
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1938
HEIGHTS IN FEET AGL (1030)

GLASGOW



MINIMUM INITIAL ALTITUDE
For coordinates see EGPF 5-2.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:
a) within 5NM of the aircraft*, or
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.
*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3500**, or last assigned level if higher, to **GOW VOR**†.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **GOW VOR**†.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3 or the procedure for the Scottish TMA & Glasgow CTA detailed at EGPF AD 2.22.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
5. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
6. **RWY 05: Further descent to 2000/1600 may be given within the approach areas shown when an aircraft is either established on the final approach track or an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track. RWY 23: Pilots should not accept descent below 3000FT unless established on a 40° or less, closing heading to the final approach track and within 9.5NM from the runway threshold when closing from the south and 8NM from the runway threshold when closing from the north and instructed to intercept the ILS LOC or specified VOR approach radial.**
7. **RWY 23: Aircraft shall not be vectored to an NDB approach.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (6/25): ATIS, APP, RAD FREQ UPDATED. GVS REMOVED.

AERO INFO DATE 24 MAR 25

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

GLASGOW

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **5500** in the sector defined by the lateral limits; 554902N 0053728W thence clockwise by an arc of a circle 40NM centred on 555214N 0042645W to 560815N 0032129W - 560218N 0034604W thence anticlockwise by an arc of a circle 25NM centred on 555214N 0042645W - 555019N 0051058W - 554902N 0053728W.

b) **4000** in the sector defined by the lateral limits; 554902N 0053728W - 555029N 0050726W thence anticlockwise by an arc of a circle 23NM centered on 555214N 0042645W to 553612N 0045552W - 553448N 0045823W thence anticlockwise by an arc of a circle 25NM centred on 555214N 0042645W to 560218N 0034604W - 560815N 0032129W thence clockwise by an arc of a circle 40NM centred on 555214N 0042645W to 554902N 0053728W.

c) **4800** in the sector defined by the lateral limits; 555019N 0051058W thence clockwise by an arc of a circle 25NM centred on 555214N 0042645W to 560218N 0034604W - 560019N 0035413W thence anticlockwise by an arc of a circle 20NM centred on 555214N 0042645W to 561010N 0041107W - 560541N 0041503W thence anticlockwise by an arc of a circle 15NM centred on 555214N 0042645W to 555107N 0045317W - 555019N 0051058W.

d) **3900** in the sector defined by the lateral limits; 560059N 0044824W thence clockwise by an arc of a circle 15NM centred on 555214N 0042645W to 560707N 0042359W - 560409N 0042433W thence anticlockwise by an arc of a circle 12NM centred on 555214N 0042645W to 560333N 0043345W - 560236N 0043310W thence anticlockwise by an arc of a circle 11NM centred on 555214N 0042645W to 555839N 0044236W - 560059N 0044824W.

e) **3000** in the sector defined by the lateral limits; 555029N 0050726W - 555107N 0045317W thence clockwise by an arc of a circle 15NM centred on 555214N 0042645W to 560059N 0044824W - 555839N 0044236W thence clockwise by an arc of a circle 11NM centred on 555214N 0042645W to 560236N 0043310W - 560333N 0043345W thence clockwise by an arc of a circle 12NM centred on 555214N 0042645W to 560409N 0042433W - 560707N 0042359W thence clockwise by an arc of a circle 15NM centred on 555214N 0042645W to 560541N 0041503W - 561010N 0041107W thence clockwise by an arc of a circle 20NM centred on 555214N 0042645W to 560019N 0035413W - 560218N 0034604W thence clockwise by an arc of a circle 25NM centred on 555214N 0042645W to 553448N 0045823W - 553612N 0045552W thence clockwise by an arc of a circle 23NM centred on 555214N 0042645W to 555029N 0050726W.

For further descent see note 6 in General Information.

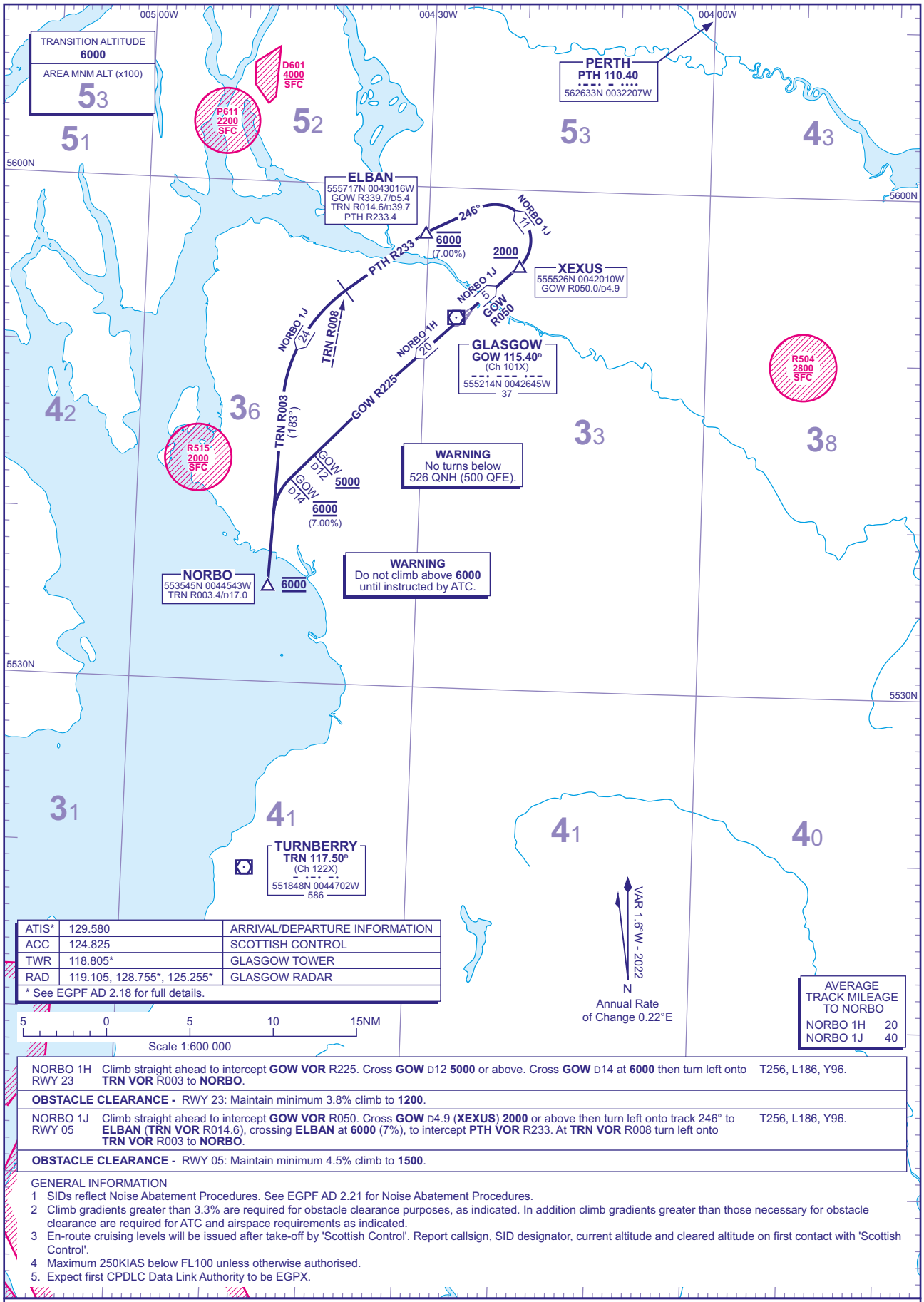
CHANGE (7/17): SPECIFICATION UPDATE ONLY, NO CHANGE TO CONTENT.

AERO INFO DATE 27 MAR 17

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW
NORBO (Jet aircraft only)



ATIS*	129.580	ARRIVAL/DEPARTURE INFORMATION
ACC	124.825	SCOTTISH CONTROL
TWR	118.805*	GLASGOW TOWER
RAD	119.105, 128.755*, 125.255*	GLASGOW RADAR
* See EGPF AD 2.18 for full details.		

AVERAGE TRACK MILEAGE TO NORBO

NORBO 1H	20
NORBO 1J	40

NORBO 1H RWY 23	Climb straight ahead to intercept **GOW VOR** R225. Cross **GOW** D12 **5000** or above. Cross **GOW** D14 at **6000** then turn left onto **TRN VOR** R003 to **NORBO**.	T256, L186, Y96.
OBSTACLE CLEARANCE - RWY 23: Maintain minimum 3.8% climb to **1200**.		
NORBO 1J RWY 05	Climb straight ahead to intercept **GOW VOR** R050. Cross **GOW** D4.9 (**XEXUS**) **2000** or above then turn left onto track 246° to **ELBAN** (**TRN VOR** R014.6), crossing **ELBAN** at **6000** (7%), to intercept **PTH VOR** R233. At **TRN VOR** R008 turn left onto **TRN VOR** R003 to **NORBO**.	T256, L186, Y96.
OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **1500**.		

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5. Expect first CPDLC Data Link Authority to be EGPX.

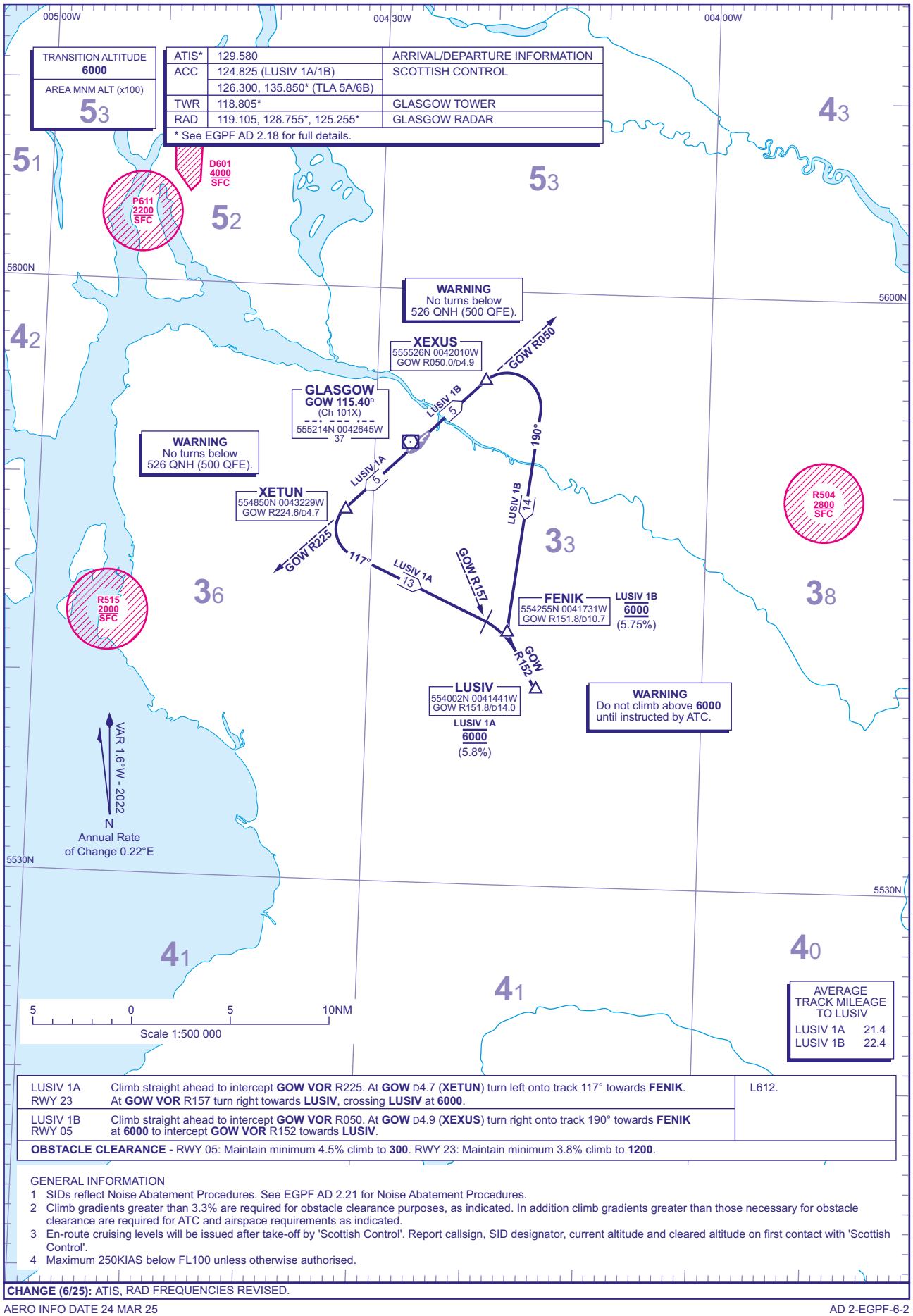
CHANGE (8/25): TRN VOR RECALIBRATED. TRN RADIALS REVISED. NORBO 1H GOW D12 ALTITUDE RESTRICTION ADDED TO CHART.

AERO INFO DATE 27 MAY 25
AD 2-EGPF-6-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW
LUSIV (Non-jet aircraft only)



LUSIV 1A RWY 23	Climb straight ahead to intercept **GOW VOR** R225. At **GOW** D4.7 (**XETUN**) turn left onto track 117° towards **FENIK**. At **GOW VOR** R157 turn right towards **LUSIV**, crossing **LUSIV** at **6000**.	L612.
LUSIV 1B RWY 05	Climb straight ahead to intercept **GOW VOR** R050. At **GOW** D4.9 (**XEXUS**) turn right onto track 190° towards **FENIK** at **6000** to intercept **GOW VOR** R152 towards **LUSIV**.	
OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **300**. RWY 23: Maintain minimum 3.8% climb to **1200**.		

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.

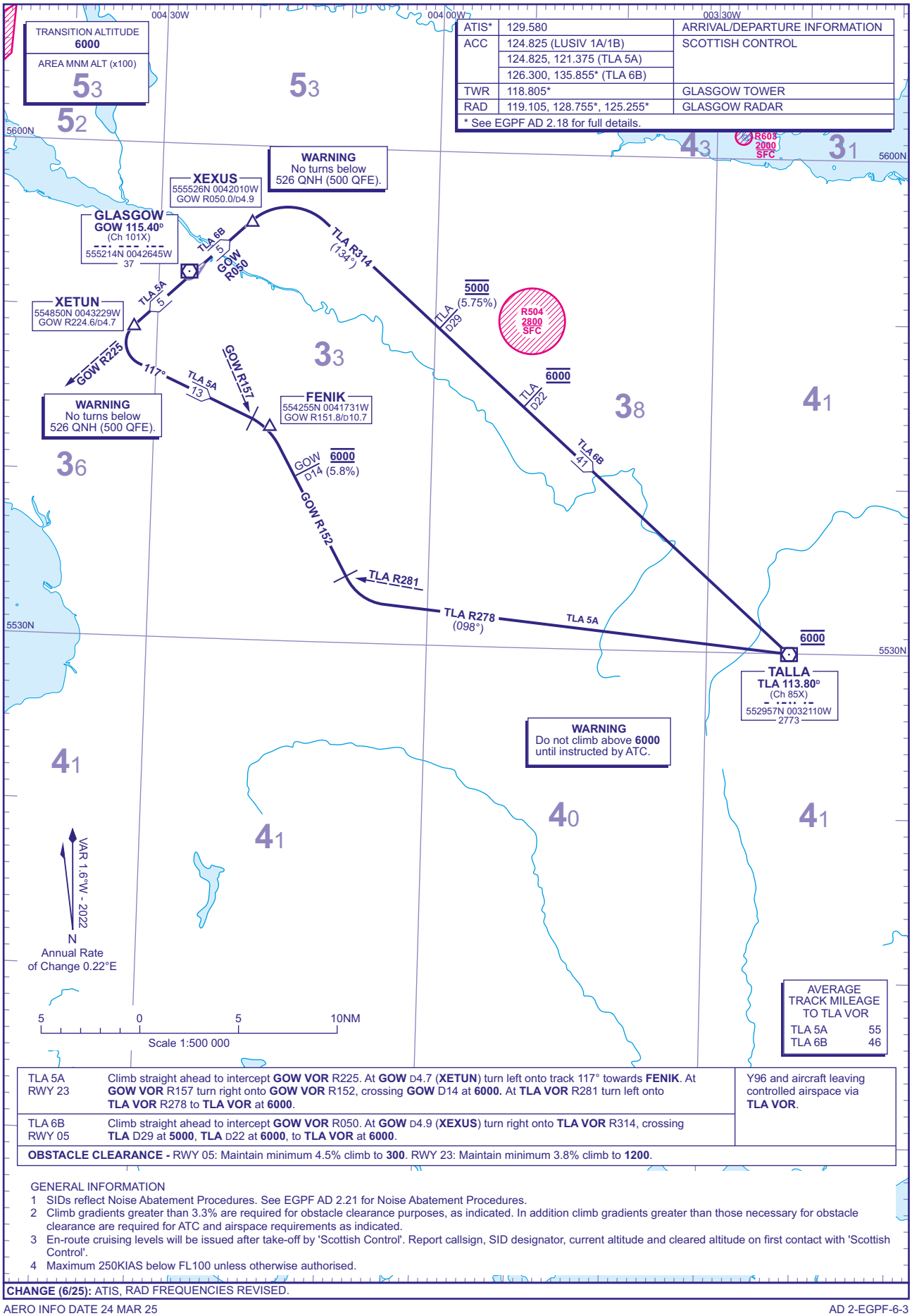
CHANGE (6/25): ATIS, RAD FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25
AD 2-EGPF-6-2

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW
TALLA (Non-jet aircraft only)



TLA 5A RWY 23	Climb straight ahead to intercept **GOW VOR** R225. At **GOW** D4.7 (**XETUN**) turn left onto track 117° towards **FENIK**. At **GOW VOR** R157 turn right onto **GOW VOR** R152, crossing **GOW** D14 at **6000.** At **TLA VOR** R281 turn left onto **TLA VOR** R278 to **TLA VOR** at **6000**.	Y96 and aircraft leaving controlled airspace via **TLA VOR**.
TLA 6B RWY 05	Climb straight ahead to intercept **GOW VOR** R050. At **GOW** D4.9 (**XEXUS**) turn right onto **TLA VOR** R314, crossing **TLA** D29 at **5000**, **TLA** D22 at **6000**, to **TLA VOR** at **6000**.	

OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **300**. RWY 23: Maintain minimum 3.8% climb to **1200**.

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.

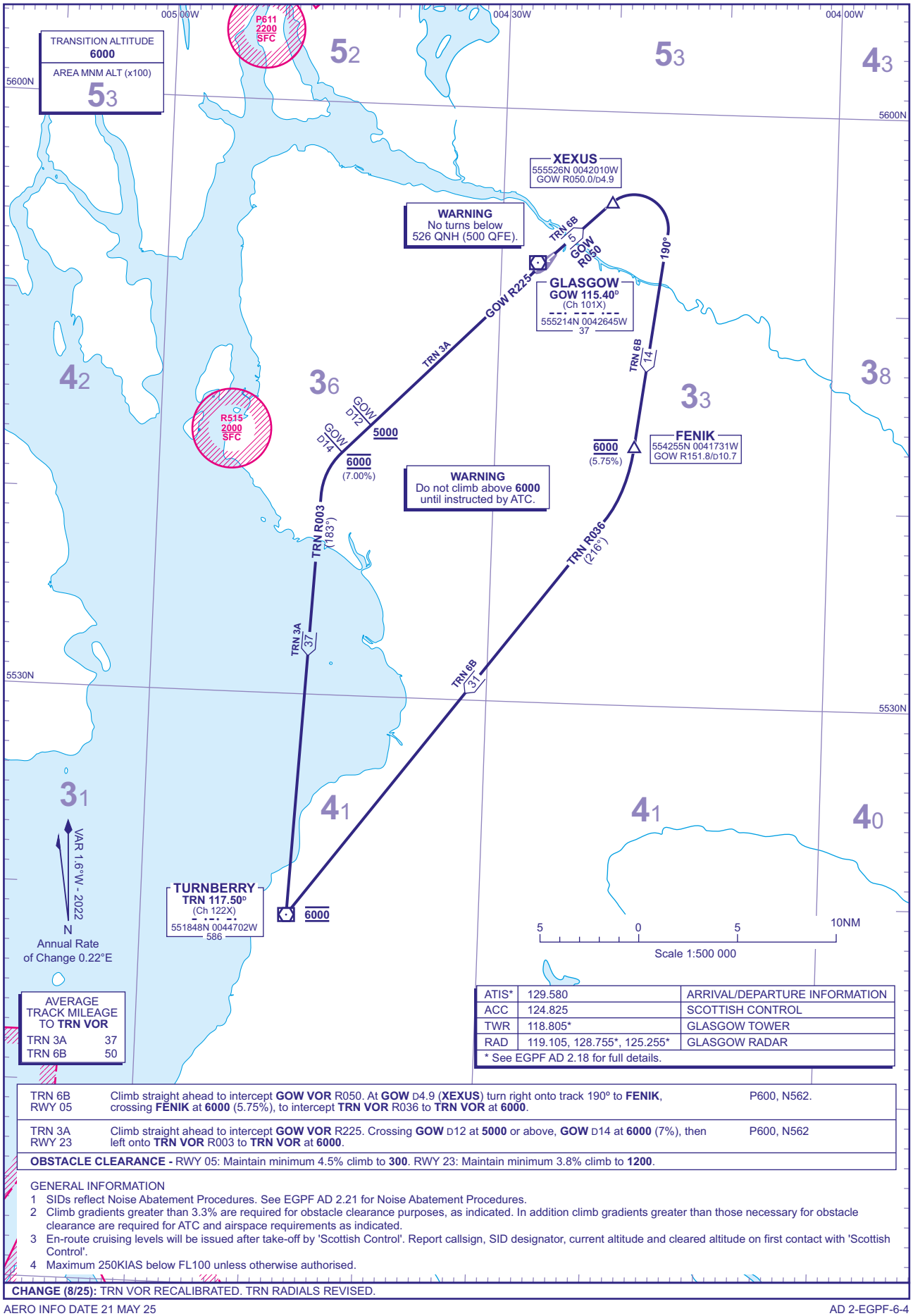
CHANGE (6/25): ATIS, RAD FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW
TURNBERRY (Non-jet aircraft only)



AVERAGE TRACK MILEAGE TO **TRN VOR**	
TRN 3A	37
TRN 6B	50

ATIS*	129.580	ARRIVAL/DEPARTURE INFORMATION
ACC	124.825	SCOTTISH CONTROL
TWR	118.805*	GLASGOW TOWER
RAD	119.105, 128.755*, 125.255*	GLASGOW RADAR

* See EGPF AD 2.18 for full details.

TRN 6B RWY 05	Climb straight ahead to intercept **GOW VOR** R050. At **GOW** D4.9 (**XEXUS**) turn right onto track 190° to **FENIK**, crossing **FENIK** at **6000** (5.75%), to intercept **TRN VOR** R036 to **TRN VOR** at **6000**.	P600, N562.
TRN 3A RWY 23	Climb straight ahead to intercept **GOW VOR** R225. Crossing **GOW** D12 at **5000** or above, **GOW** D14 at **6000** (7%), then left onto **TRN VOR** R003 to **TRN VOR** at **6000**.	P600, N562

OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **300**. RWY 23: Maintain minimum 3.8% climb to **1200**.

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.

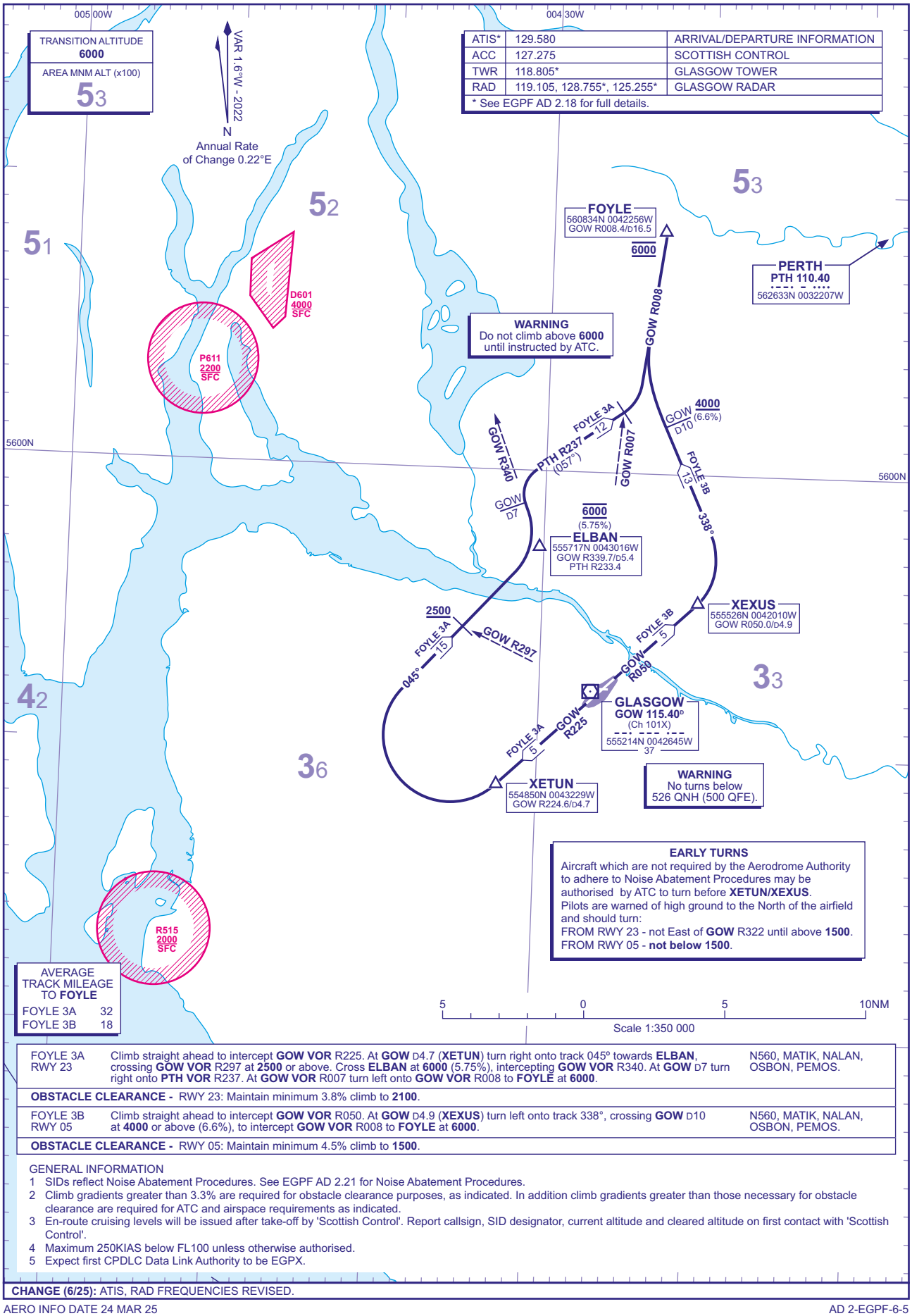
CHANGE (8/25): TRN VOR RECALIBRATED. TRN RADIALS REVISED.

AERO INFO DATE 21 MAY 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW FOYLE



FOYLE 3A RWY 23	Climb straight ahead to intercept **GOW VOR** R225. At **GOW** D4.7 (**XETUN**) turn right onto track 045º towards **ELBAN**, crossing **GOW VOR** R297 at **2500** or above. Cross **ELBAN** at **6000** (5.75%), intercepting **GOW VOR** R340. At **GOW** D7 turn right onto **PTH VOR** R237. At **GOW VOR** R007 turn left onto **GOW VOR** R008 to **FOYLE** at **6000**.	N560, MATIK, NALAN, OSBON, PEMOS.
OBSTACLE CLEARANCE - RWY 23: Maintain minimum 3.8% climb to **2100**.		
FOYLE 3B RWY 05	Climb straight ahead to intercept **GOW VOR** R050. At **GOW** D4.9 (**XEXUS**) turn left onto track 338°, crossing **GOW** D10 at **4000** or above (6.6%), to intercept **GOW VOR** R008 to **FOYLE** at **6000**.	N560, MATIK, NALAN, OSBON, PEMOS.
OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **1500**.		

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 Expect first CPDLC Data Link Authority to be EGPX.

CHANGE (6/25): ATIS, RAD FREQUENCIES REVISED.

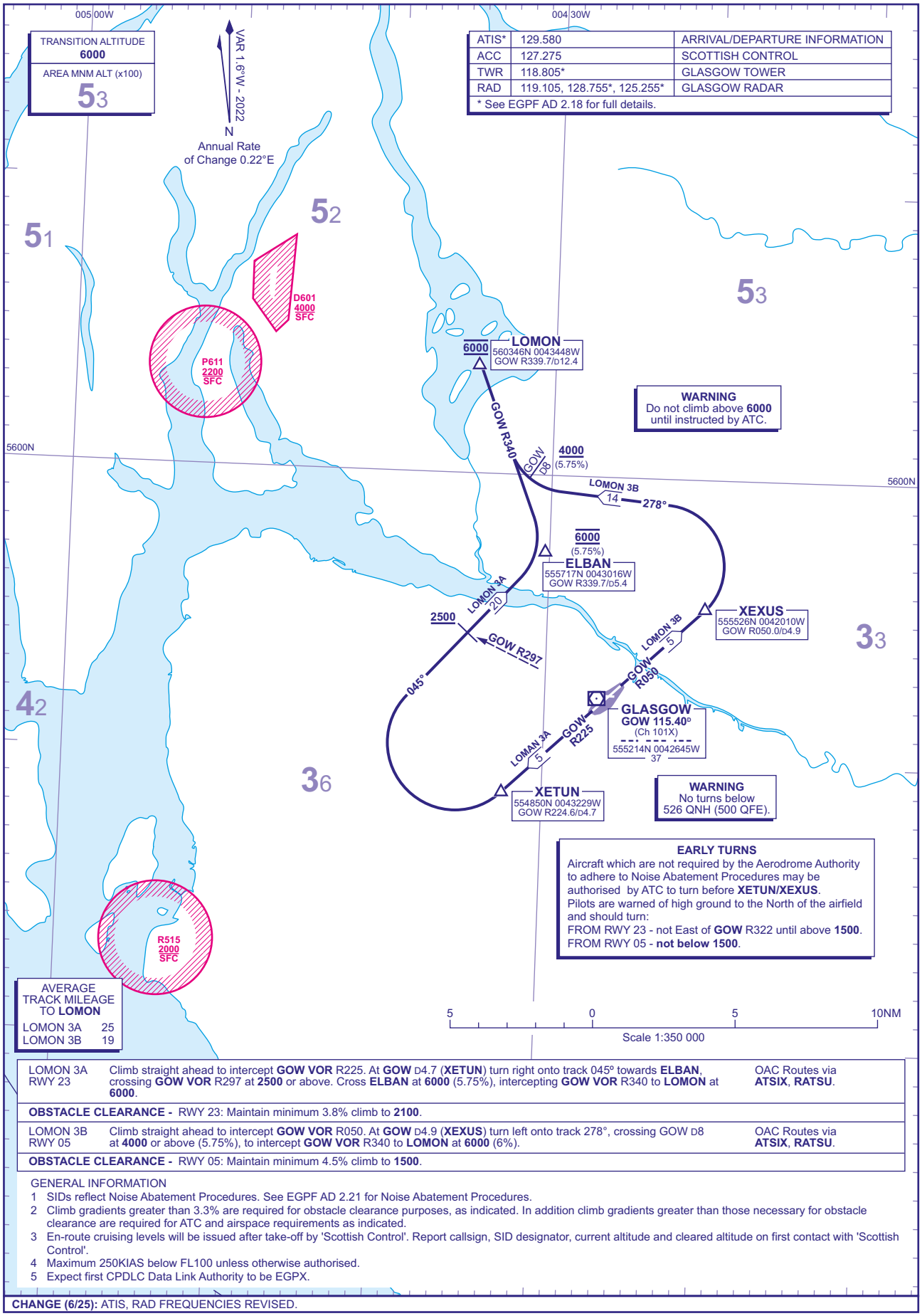
AERO INFO DATE 24 MAR 25

AD 2-EGPF-6-5

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW
LOMON



LOMON 3A RWY 23	Climb straight ahead to intercept **GOW VOR** R225. At **GOW** D4.7 (**XETUN**) turn right onto track 045º towards **ELBAN**, crossing **GOW VOR** R297 at **2500** or above. Cross **ELBAN** at **6000** (5.75%), intercepting **GOW VOR** R340 to **LOMON** at **6000**.	OAC Routes via **ATSIX**, **RATSU**.
OBSTACLE CLEARANCE - RWY 23: Maintain minimum 3.8% climb to **2100**.		
LOMON 3B RWY 05	Climb straight ahead to intercept **GOW VOR** R050. At **GOW** D4.9 (**XEXUS**) turn left onto track 278°, crossing GOW D8 at **4000** or above (5.75%), to intercept **GOW VOR** R340 to **LOMON** at **6000** (6%).	OAC Routes via **ATSIX**, **RATSU**.
OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **1500**.		

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 Expect first CPDLC Data Link Authority to be EGPX.

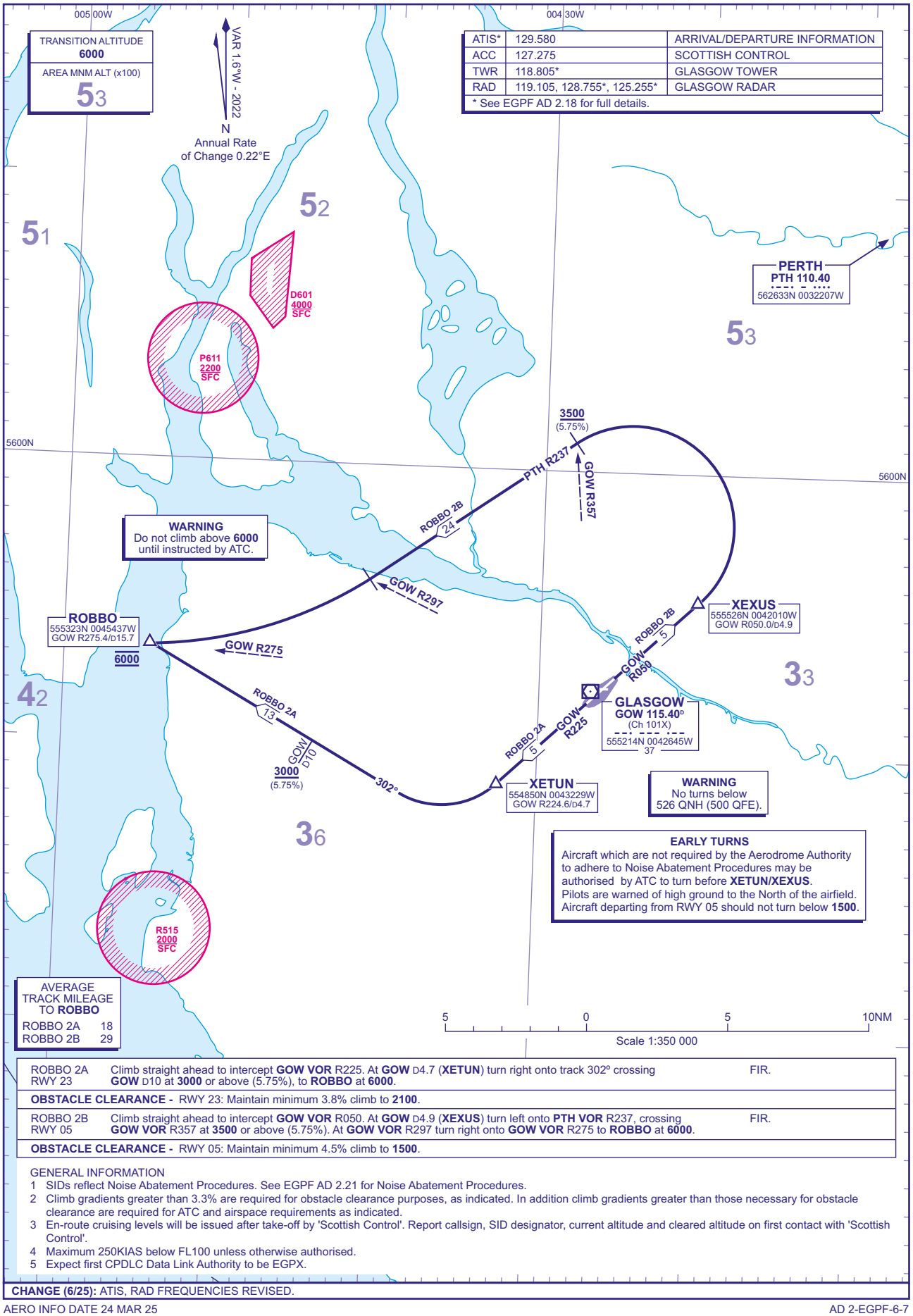
CHANGE (6/25): ATIS, RAD FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW
ROBBO



ROBBO 2A RWY 23	Climb straight ahead to intercept **GOW VOR** R225. At **GOW** D4.7 (**XETUN**) turn right onto track 302° crossing **GOW** D10 at **3000** or above (5.75%), to **ROBBO** at **6000**.	FIR.
OBSTACLE CLEARANCE - RWY 23: Maintain minimum 3.8% climb to **2100**.		
ROBBO 2B RWY 05	Climb straight ahead to intercept **GOW VOR** R050. At **GOW** D4.9 (**XEXUS**) turn left onto **PTH VOR** R237, crossing **GOW VOR** R357 at **3500** or above (5.75%). At **GOW VOR** R297 turn right onto **GOW VOR** R275 to **ROBBO** at **6000**.	FIR.
OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **1500**.		

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 Expect first CPDLC Data Link Authority to be EGPX.

CHANGE (6/25): ATIS, RAD FREQUENCIES REVISED.

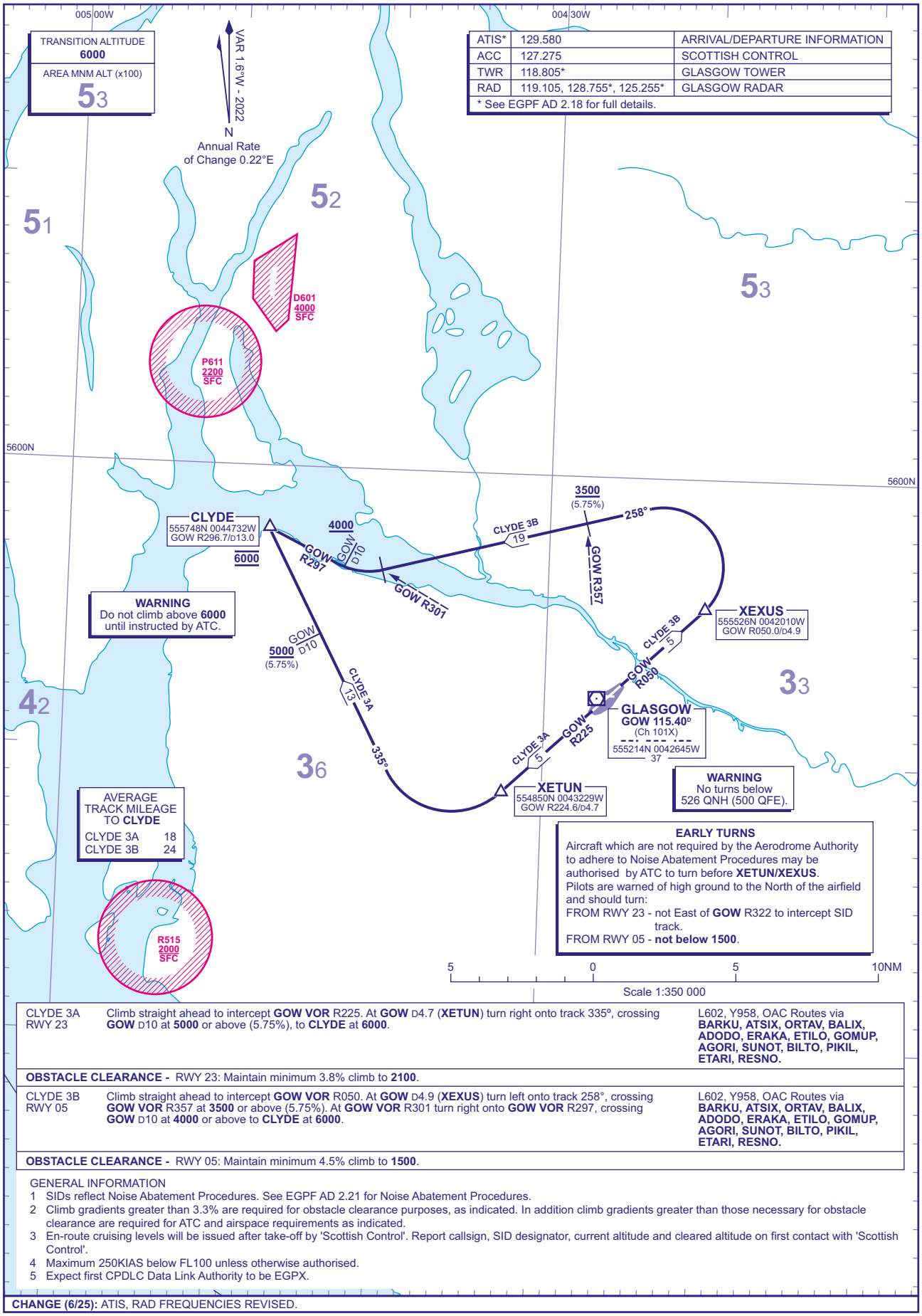
AERO INFO DATE 24 MAR 25

AD 2-EGPF-6-7

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW CLYDE



CLYDE 3A RWY 23	Climb straight ahead to intercept **GOW VOR** R225. At **GOW** D4.7 (**XETUN**) turn right onto track 335°, crossing **GOW** D10 at **5000** or above (5.75%), to **CLYDE** at **6000**.	L602, Y958, OAC Routes via **BARKU, ATSIX, ORTAV, BALIX, ADODO, ERAKA, ETILO, GOMUP, AGORI, SUNOT, BILTO, PIKIL, ETARI, RESNO.**
OBSTACLE CLEARANCE - RWY 23: Maintain minimum 3.8% climb to **2100**.		
CLYDE 3B RWY 05	Climb straight ahead to intercept **GOW VOR** R050. At **GOW** D4.9 (**XEXUS**) turn left onto track 258°, crossing **GOW VOR** R357 at **3500** or above (5.75%). At **GOW VOR** R301 turn right onto **GOW VOR** R297, crossing **GOW** D10 at **4000** or above to **CLYDE** at **6000**.	L602, Y958, OAC Routes via **BARKU, ATSIX, ORTAV, BALIX, ADODO, ERAKA, ETILO, GOMUP, AGORI, SUNOT, BILTO, PIKIL, ETARI, RESNO.**
OBSTACLE CLEARANCE - RWY 05: Maintain minimum 4.5% climb to **1500**.		

GENERAL INFORMATION
1 SIDs reflect Noise Abatement Procedures. See EGPF AD 2.21 for Noise Abatement Procedures.
2 Climb gradients greater than 3.3% are required for obstacle clearance purposes, as indicated. In addition climb gradients greater than those necessary for obstacle clearance are required for ATC and airspace requirements as indicated.
3 En-route cruising levels will be issued after take-off by 'Scottish Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Scottish Control'.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 Expect first CPDLC Data Link Authority to be EGPX.

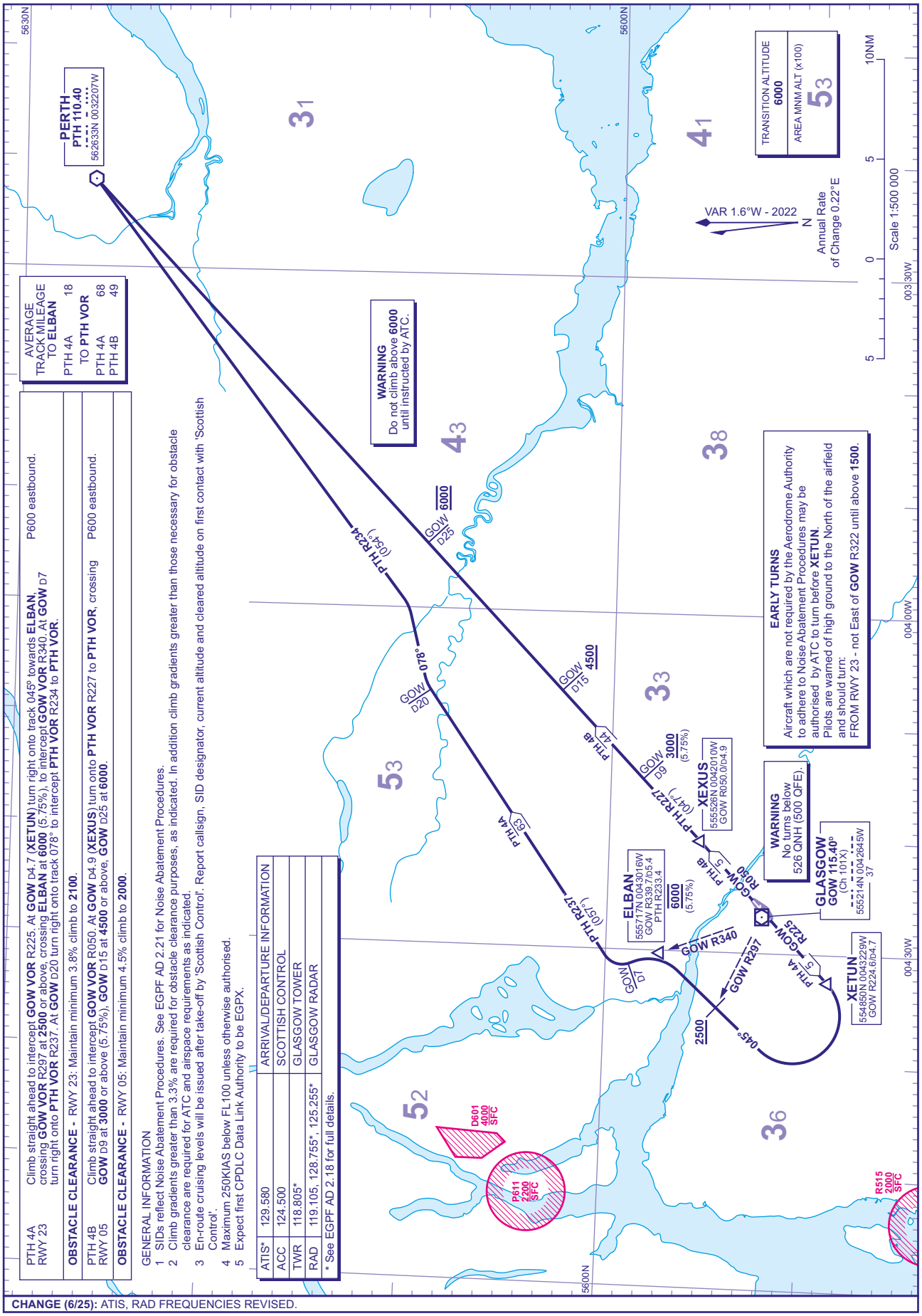
CHANGE (6/25): ATIS, RAD FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW PERTH



CHANGE (6/25): ATIS, RAD FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25

AD 2-EGPF-6-9

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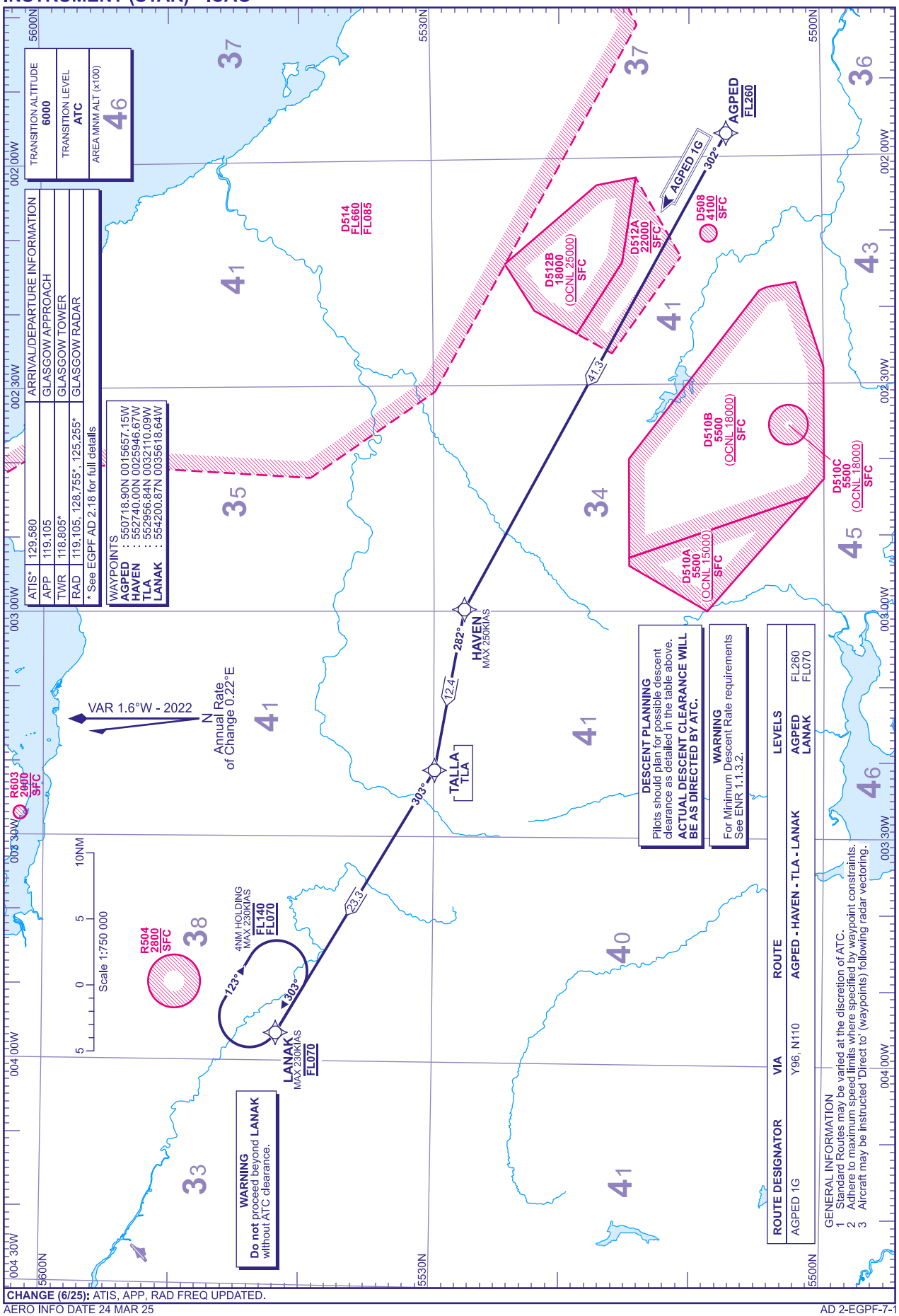
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW AGPED 1G



CHANGE (6/25): ATIS, APP, RAD FREQ UPDATED.

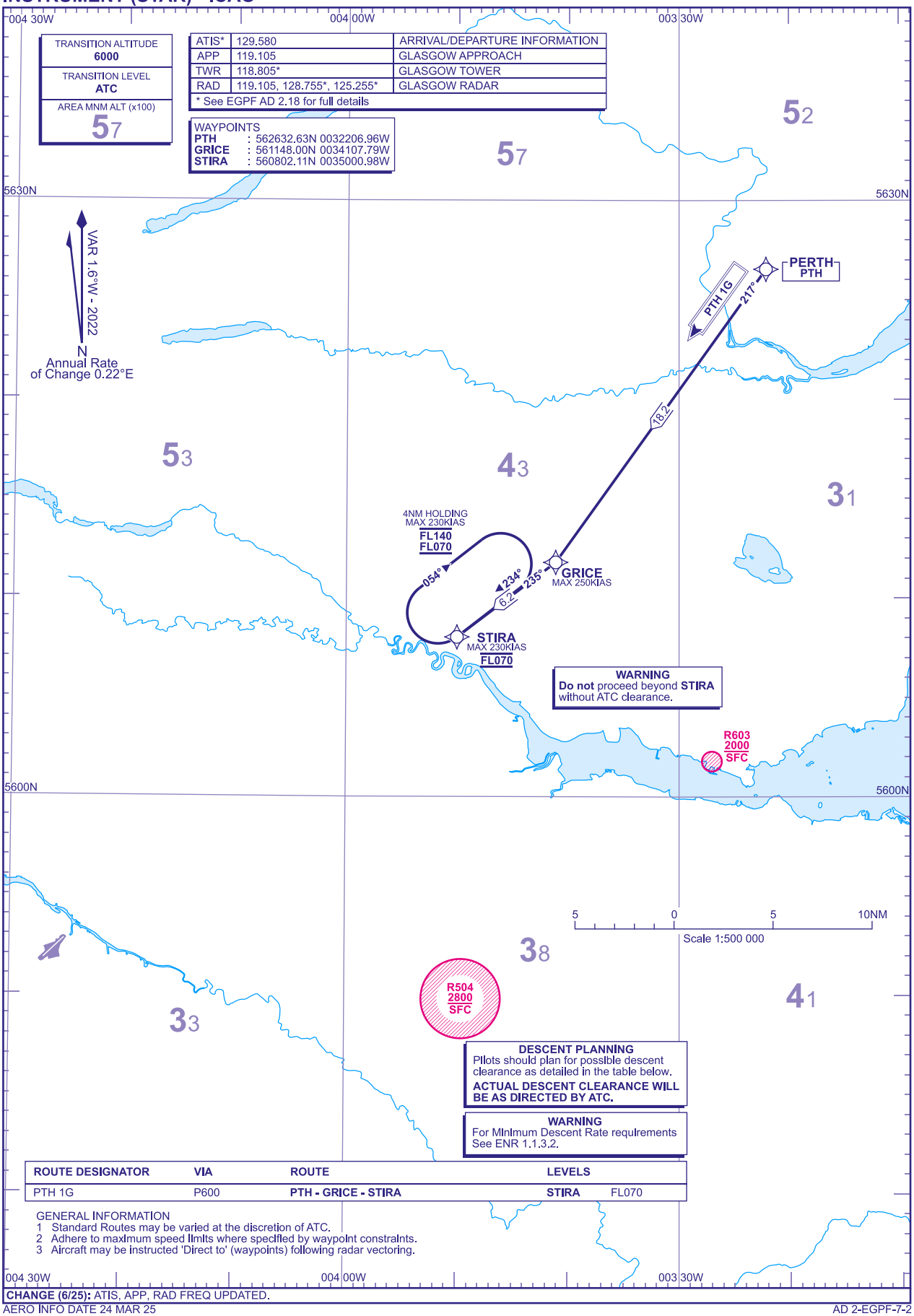
AERO INFO DATE 24 MAR 25

AD 2-EGPF-7-1

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW PTH 1G



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
PTH 1G	P600	PTH - GRICE - STIRA	STIRA	FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.

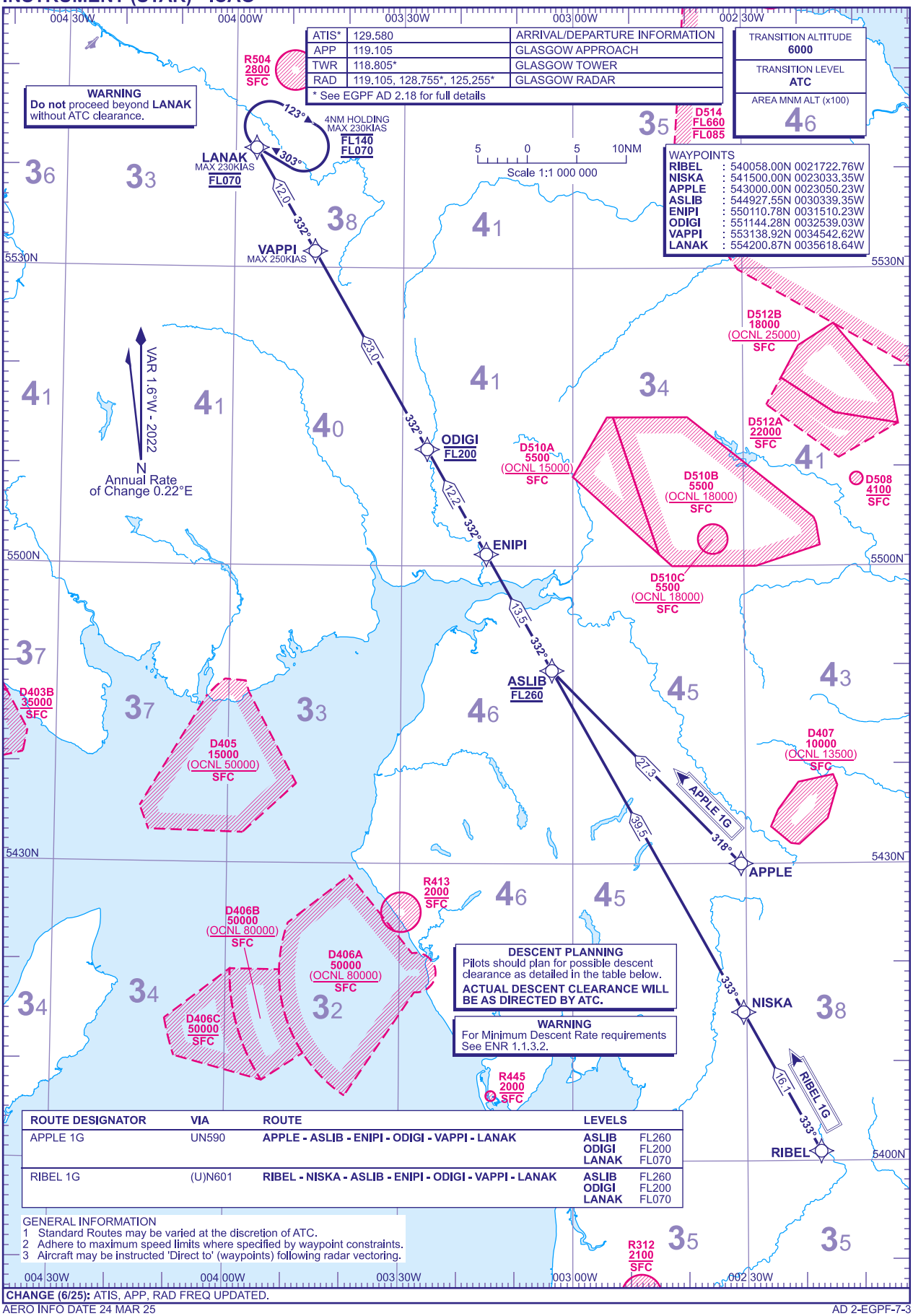
CHANGE (6/25): ATIS, APP, RAD FREQ UPDATED.

AERO INFO DATE 24 MAR 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW
APPLE 1G RIBEL 1G



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
APPLE 1G	UN590	APPLE - ASLIB - ENIPI - ODIGI - VAPPI - LANAK	ASLIB FL260 ODIGI FL200 LANAK FL070
RIBEL 1G	(U)N601	RIBEL - NISKA - ASLIB - ENIPI - ODIGI - VAPPI - LANAK	ASLIB FL260 ODIGI FL200 LANAK FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.

CHANGE (6/25): ATIS, APP, RAD FREQ UPDATED.

AERO INFO DATE 24 MAR 25

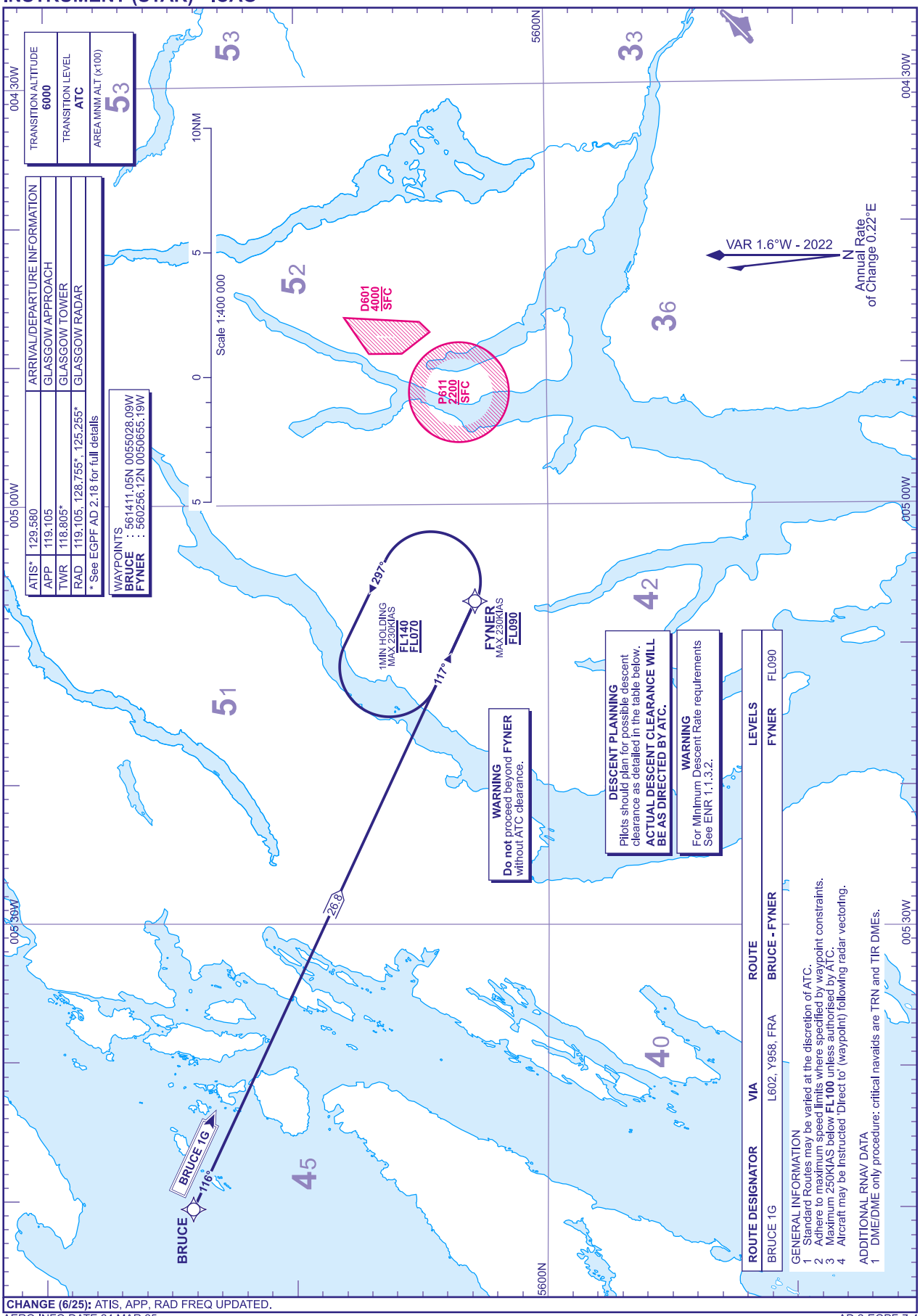
AD 2-EGPF-7-3

I

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW BRUCE 1G



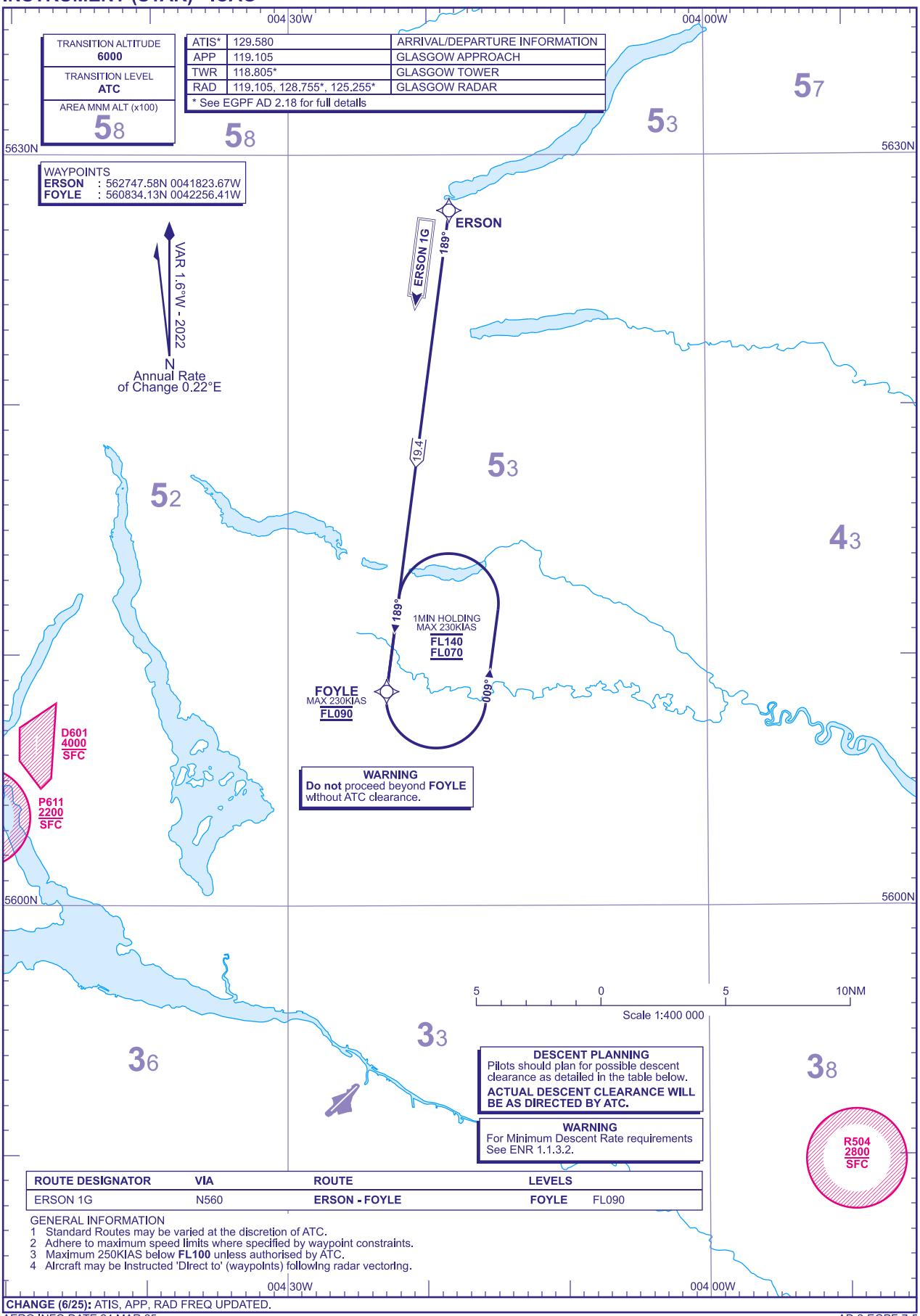
CHANGE (6/25): ATIS, APP, RAD FREQ UPDATED.

AERO INFO DATE 24 MAR 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW ERSON 1G



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
ERSON 1G	N560	ERSON - FOYLE	FOYLE	FL090

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below **FL100** unless authorised by ATC.
4 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.

CHANGE (6/25): ATIS, APP, RAD FREQ UPDATED.

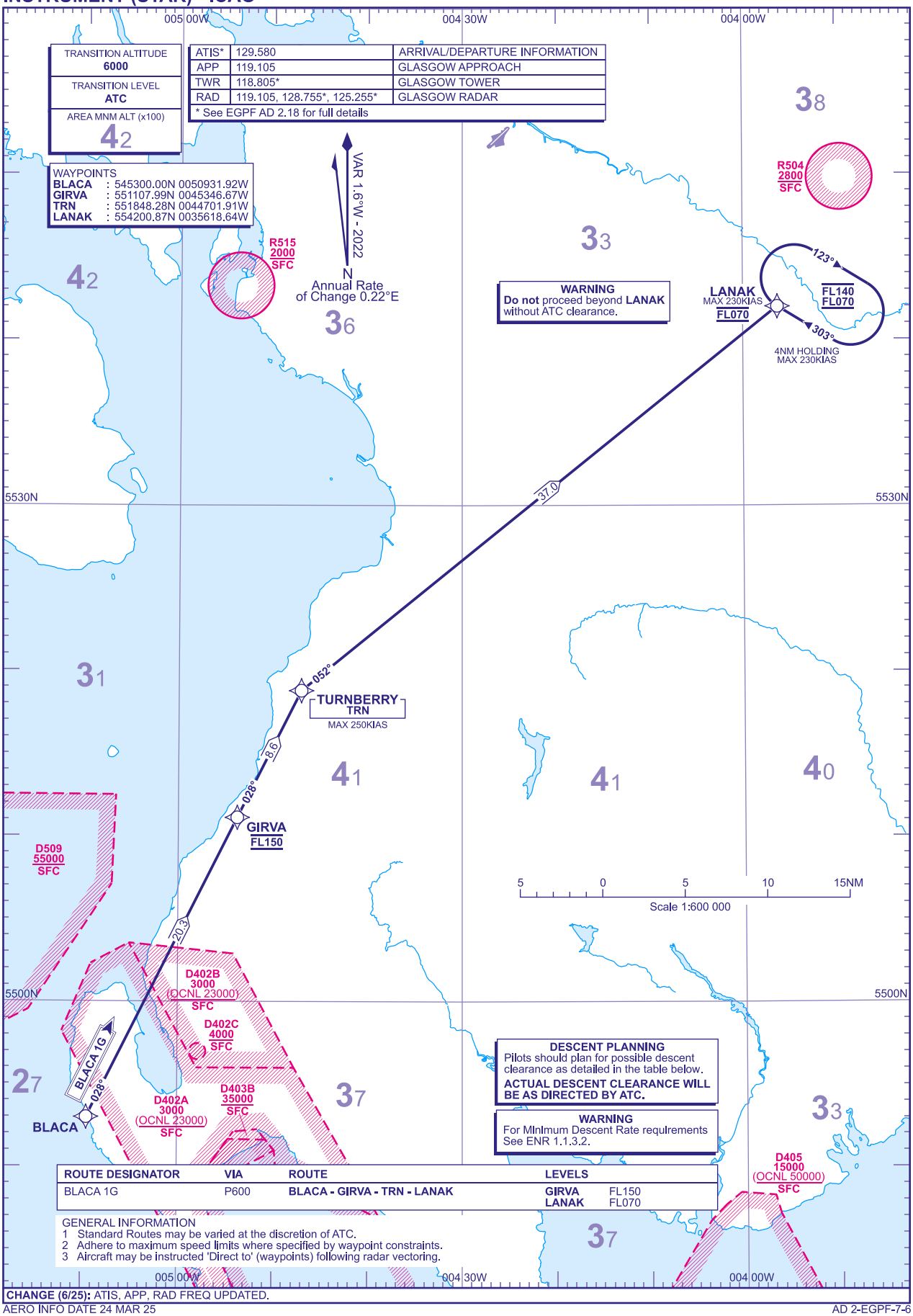
AERO INFO DATE 24 MAR 25

AD 2-EGPF-7-5

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GLASGOW BLACA 1G



CHANGE (6/25): ATIS, APP, RAD FREQ UPDATED.

AERO INFO DATE 24 MAR 25

AD 2-EGPF-7-6

Standard Instrument Arrival Coding Tables

GLASGOW AGPED 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AGPED1G	001	IF	AGPED	550718.90N 0015657.15W	N	-	-	-	-	FL260	-	RNAV5
AGPED1G	002	TF	HAVEN	552740.00N 0025946.67W	N	302° (300.0°)	-1.6	41.3	LEFT	-	-250	RNAV5
AGPED1G	003	TF	TLA	552956.84N 0032110.09W	N	282° (280.8°)	-1.6	12.4	RIGHT	-	-	RNAV5
AGPED1G	004	TF	LANAK	554200.87N 0035618.64W	N	303° (301.5°)	-1.6	23.3	-	FL070	-230	RNAV5

GLASGOW PTH 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PTH1G	001	IF	PTH	562632.63N 0032206.96W	N	-	-	-	-	-	-	RNAV5
PTH1G	002	TF	GRICE	561148.00N 0034107.79W	N	217° (215.8°)	-1.6	18.2	RIGHT	-	-250	RNAV5
PTH1G	003	TF	STIRA	560802.11N 0035000.98W	N	235° (232.9°)	-1.6	6.2	-	FL070	-230	RNAV5

GLASGOW APPLE 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
APPLE1G	001	IF	APPLE	543000.00N 0023050.23W	N	-	-	-	-	-	-	RNAV5
APPLE1G	002	TF	ASLIB	544927.55N 0030339.35W	N	318° (315.9°)	-1.6	27.3	RIGHT	FL260	-	RNAV5
APPLE1G	003	TF	ENIPI	550110.78N 0031510.23W	N	332° (330.6°)	-1.6	13.5	-	-	-	RNAV5
APPLE1G	004	TF	ODIGI	551144.28N 0032539.03W	N	332° (330.4°)	-1.6	12.2	-	FL200	-	RNAV5
APPLE1G	005	TF	VAPPI	553138.92N 0034542.62W	N	332° (330.3°)	-1.6	23.0	-	-	-250	RNAV5
APPLE1G	006	TF	LANAK	554200.87N 0035618.64W	N	332° (330.0°)	-1.6	12.0	-	FL070	-230	RNAV5

GLASGOW RIBEL 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RIBEL1G	001	IF	RIBEL	540058.00N 0021722.76W	N	-	-	-	-	-	-	RNAV5
RIBEL1G	002	TF	NISKA	541500.00N 0023033.35W	N	333° (331.2°)	-1.6	16.1	-	-	-	RNAV5
RIBEL1G	003	TF	ASLIB	544927.55N 0030339.35W	N	333° (331.0°)	-1.6	39.5	-	FL260	-	RNAV5
RIBEL1G	004	TF	ENIPI	550110.78N 0031510.23W	N	332° (330.6°)	-1.6	13.5	-	-	-	RNAV5
RIBEL1G	005	TF	ODIGI	551144.28N 0032539.03W	N	332° (330.4°)	-1.6	12.2	-	FL200	-	RNAV5
RIBEL1G	006	TF	VAPPI	553138.92N 0034542.62W	N	332° (330.3°)	-1.6	23.0	-	-	-250	RNAV5
RIBEL1G	007	TF	LANAK	554200.87N 0035618.64W	N	332° (330.0°)	-1.6	12.0	-	FL070	-230	RNAV5

CHANGE (9/24): TLA COORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 11 JUN 24

Standard Instrument Arrival Coding Tables

GLASGOW BRUCE 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BRUCE1G	001	IF	BRUCE	561411.05N 0055028.09W	N	-	-	-	-	-	-	RNAV5
BRUCE1G	002	TF	FYNER	560256.12N 0050655.19W	N	116° (114.5°)	-1.6	26.8	-	FL090	-230	RNAV5

GLASGOW ERSON 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ERSON1G	001	IF	ERSON	562747.58N 0041823.67W	N	-	-	-	-	-	-	RNAV5
ERSON1G	002	TF	FOYLE	560834.13N 0042256.41W	N	189° (187.5°)	-1.6	19.4	-	FL090	-230	RNAV5

GLASGOW BLACA 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BLACA1G	001	IF	BLACA	545300.00N 0050931.92W	N	-	-	-	-	-	-	RNAV5
BLACA1G	002	TF	GIRVA	551107.99N 0045346.67W	N	028° (026.4°)	-1.6	20.3	-	FL150	-	RNAV5
BLACA1G	003	TF	TRN	551848.28N 0044701.91W	N	028° (026.6°)	-1.6	8.6	RIGHT	-	-250	RNAV5
BLACA1G	004	TF	LANAK	554200.87N 0035618.64W	N	052° (050.8°)	-1.6	37.0	-	FL070	-230	RNAV5

CHANGE (9/24): TRN COORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 11 JUN 24

RNAV Hold Coding Tables

GLASGOW STIRA Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
STIRA	-	-	STIRA	560802.11N 0035000.98W	Y	234° (232.2°)	-1.6	4.0 NM	RIGHT	-FL140 +FL070	-230	RNAV5

GLASGOW LANAK Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LANAK	-	-	LANAK	554200.87N 0035618.64W	Y	303° (301.0°)	-1.6	4.0 NM	RIGHT	-FL140 +FL070	-230	RNAV5

GLASGOW FYNER Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FYNER	-	-	FYNER	560256.12N 0050655.19W	Y	117° (115.7°)	-1.6	1 MIN	LEFT	-FL140 +FL070	-230	RNAV5

GLASGOW FOYLE Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FOYLE	-	-	FOYLE	560834.13N 0042256.41W	Y	189° (187.5°)	-1.6	1 MIN	LEFT	-FL140 +FL070	-230	RNAV5

CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 11 JUN 24

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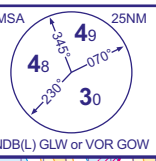
INSTRUMENT APPROACH CHART - ICAO

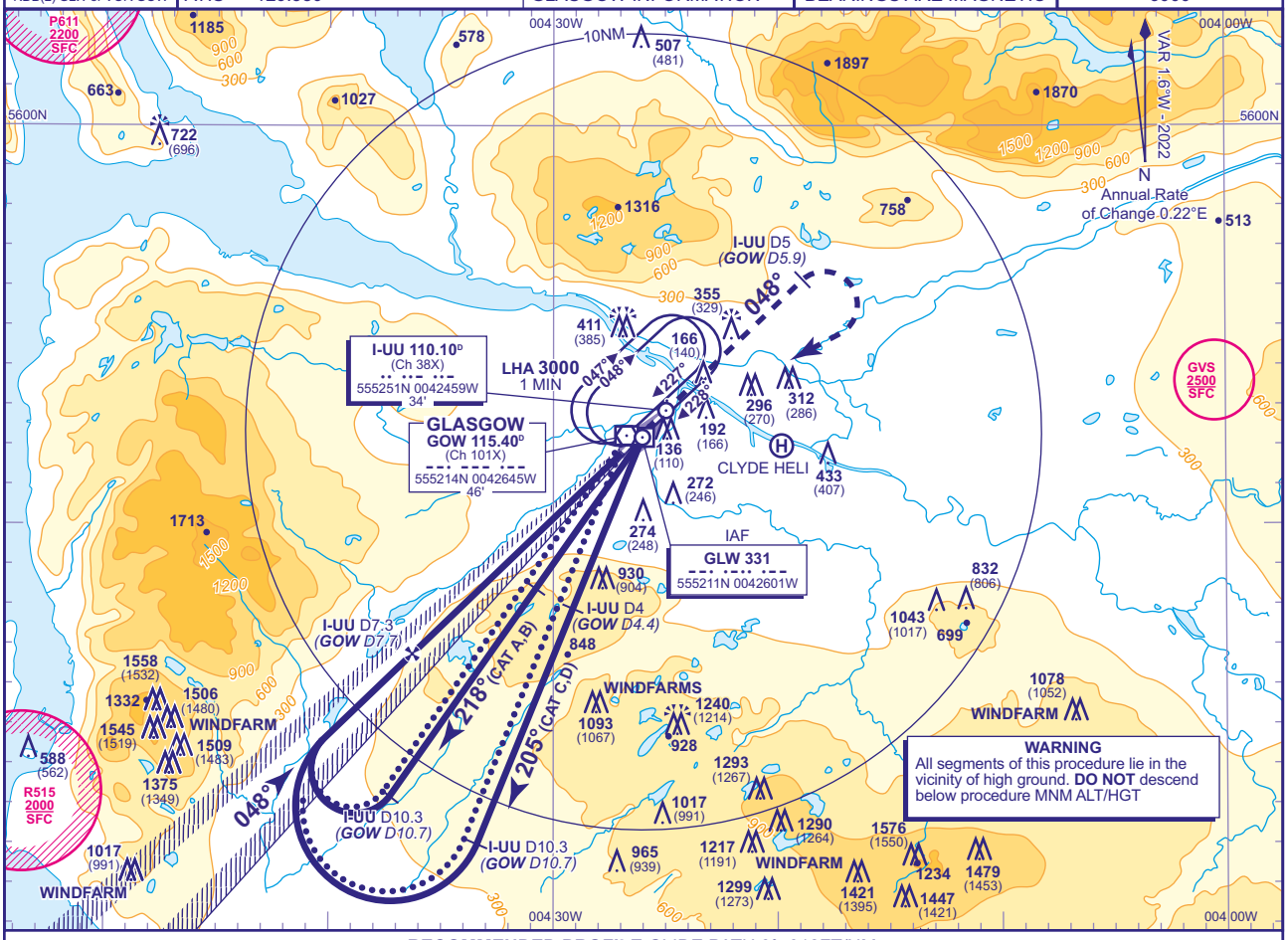
GLASGOW ILS/DME/ VOR or NDB(L) RWY 05

(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	26
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	1576 AMSL (1550) (ABOVE THR)
RAD	119.105, 125.255, 128.755	GLASGOW RADAR		
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

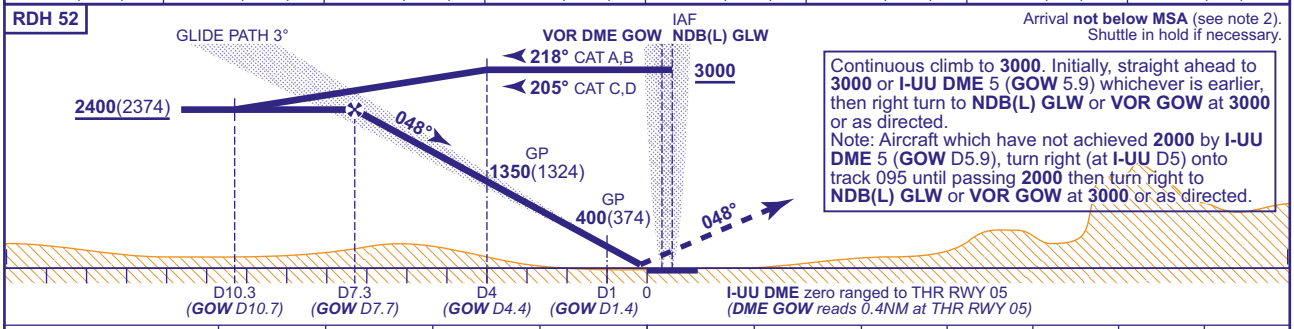
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-UU(GOW)	7(7.4)	6(6.4)	5(5.4)	4(4.4)	3(3.4)	2(2.4)	1(1.4)
ALT(HGT)	**2310**(2284)	**1990**(1964)	**1670**(1644)	**1350**(1324)	**1030**(1004)	**710**(684)	**400**(374)

RDH 52



Arrival **not below MSA** (see note 2).
Shuttle in hold if necessary.

Continuous climb to **3000**. Initially, straight ahead to **3000** or **I-UU DME** 5 (**GOW** 5.9) whichever is earlier, then right turn to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.
Note: Aircraft which have not achieved **2000** by **I-UU DME** 5 (**GOW** D5.9), turn right (at **I-UU** D5) onto track 095 until passing **2000** then turn right to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.

Aircraft Category			A	B	C	D
OCA (OCH)	CAT I	2.5%	**253**(227)	**262**(236)	**272**(246)	**282**(256)
		3.3%	**173**(147)	**181**(155)	**190**(164)	**201**(175)
	CAT II	2.5%	**164**(138)	**180**(154)	**194**(168)	**207**(181)
		3.3%	**79**(53)	**88**(62)	**100**(74)	**112**(86)
VM(C)OCA (OCH AAL)	Total Area		**800**(774)	**800**(774)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE (FROM VOR GOW HOLD)
As for main procedure except fly outbound baseturn on GOW VOR R217 (CAT A,B), R204 (CAT C,D).

AIRCRAFT UNABLE TO RECEIVE DME I-UU Advise ATC. Equivalent radar ranges will be provided at 10NM outbound and at 8NM and 4NM inbound.

NOTE 1 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
2 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
3 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25

AD 2-EGPF-8-1

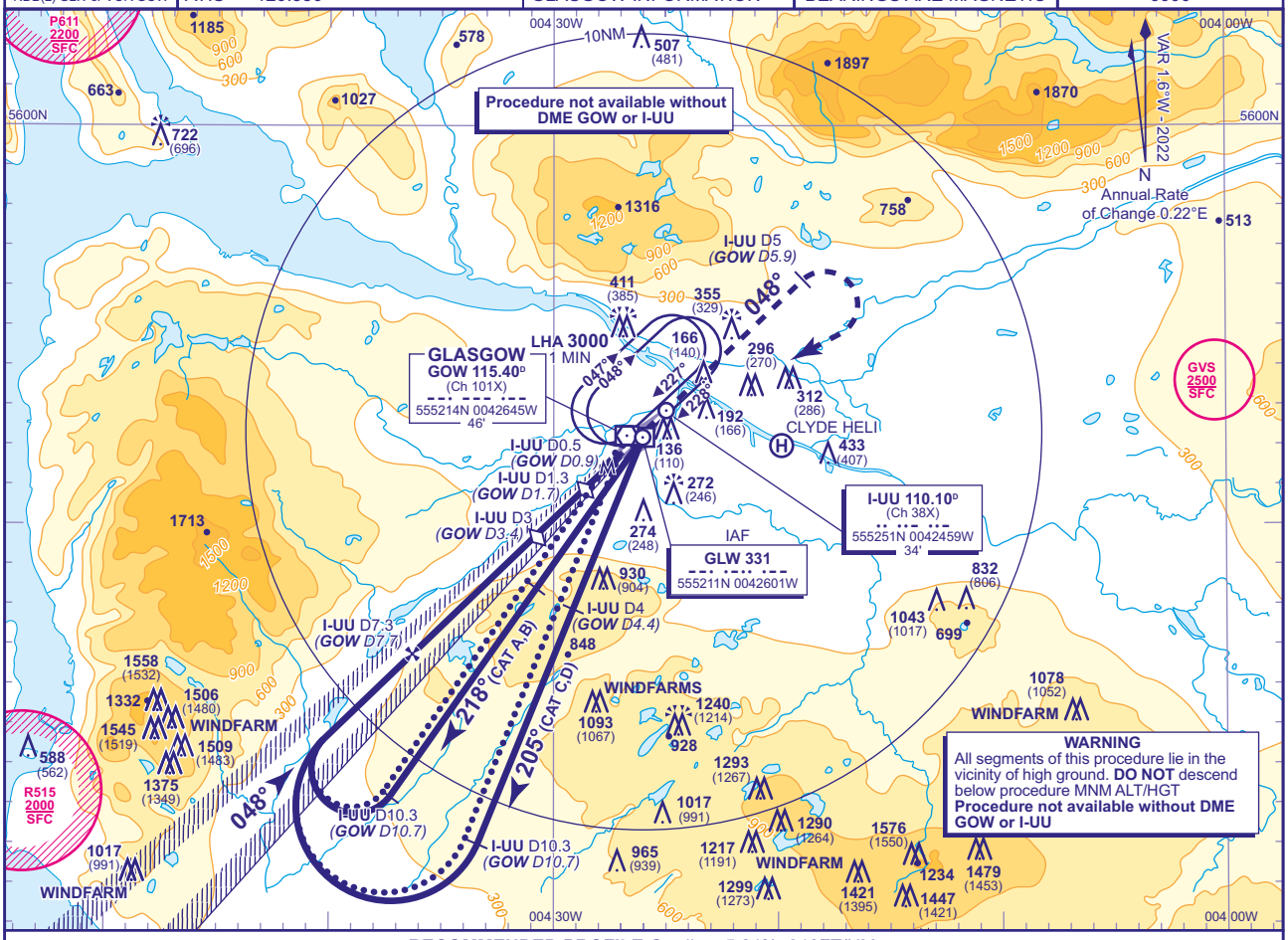
INSTRUMENT APPROACH CHART - ICAO

GLASGOW LOC/DME/ VOR or NDB(L) RWY 05
(ACFT CAT A,B,C,D)

MSA 25NM 4 9 4 8 3 0 345° 070° 230°
NDB(L) GLW or VOR GOW

APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	26
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS 1576 AMSL (1550) (ABOVE THR)	
RAD	119.105, 125.255, 128.755	GLASGOW RADAR		
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

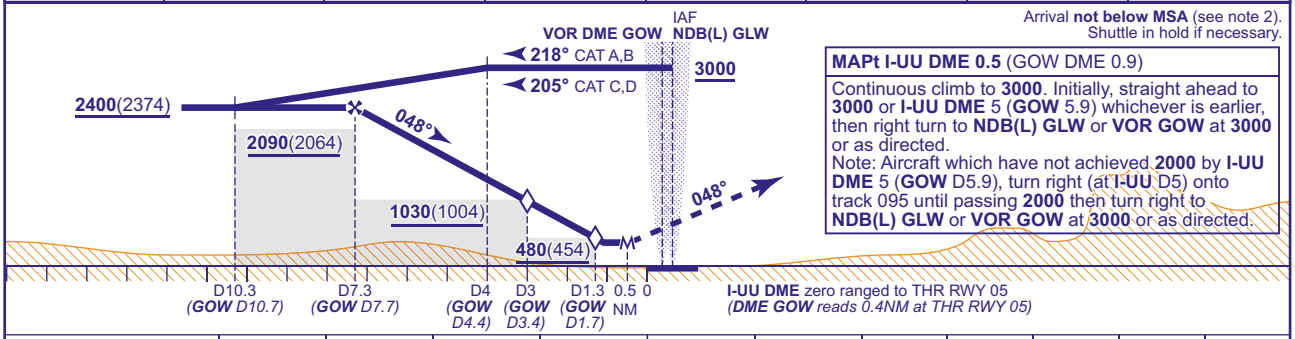
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-UU(GOW)	7(7.4)	6(6.4)	5(5.4)	4(4.4)	3(3.4) (SDF)	2(2.4)	1(1.4)
ALT(HGT)	2310(2284)	1990(1964)	1670(1644)	1350(1324)	1030(1004)	710(684)	400(374)

Arrival **not below MSA** (see note 2).
Shuttle in hold if necessary.



MAPt I-UU DME 0.5 (GOW DME 0.9)

Continuous climb to **3000**. Initially, straight ahead to **3000** or **I-UU DME** 5 (**GOW** 5.9) whichever is earlier, then right turn to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.
Note: Aircraft which have not achieved **2000** by **I-UU DME** 5 (**GOW** D5.9), turn right (at **I-UU** D5) onto track 095 until passing **2000** then turn right to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	370(344)	370(344)	370(344)	370(344)
VM(C)OCA (OCH AAL)	Total Area	800(774)	800(774)	1400(1374)	1700(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE (FROM VOR GOW HOLD)
As for main procedure except fly outbound baseturn on GOW VOR R217 (CAT A,B), R204 (CAT C,D).

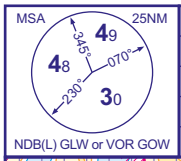
NOTE 1 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
2 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
3 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25
AD 2-EGPF-8-2

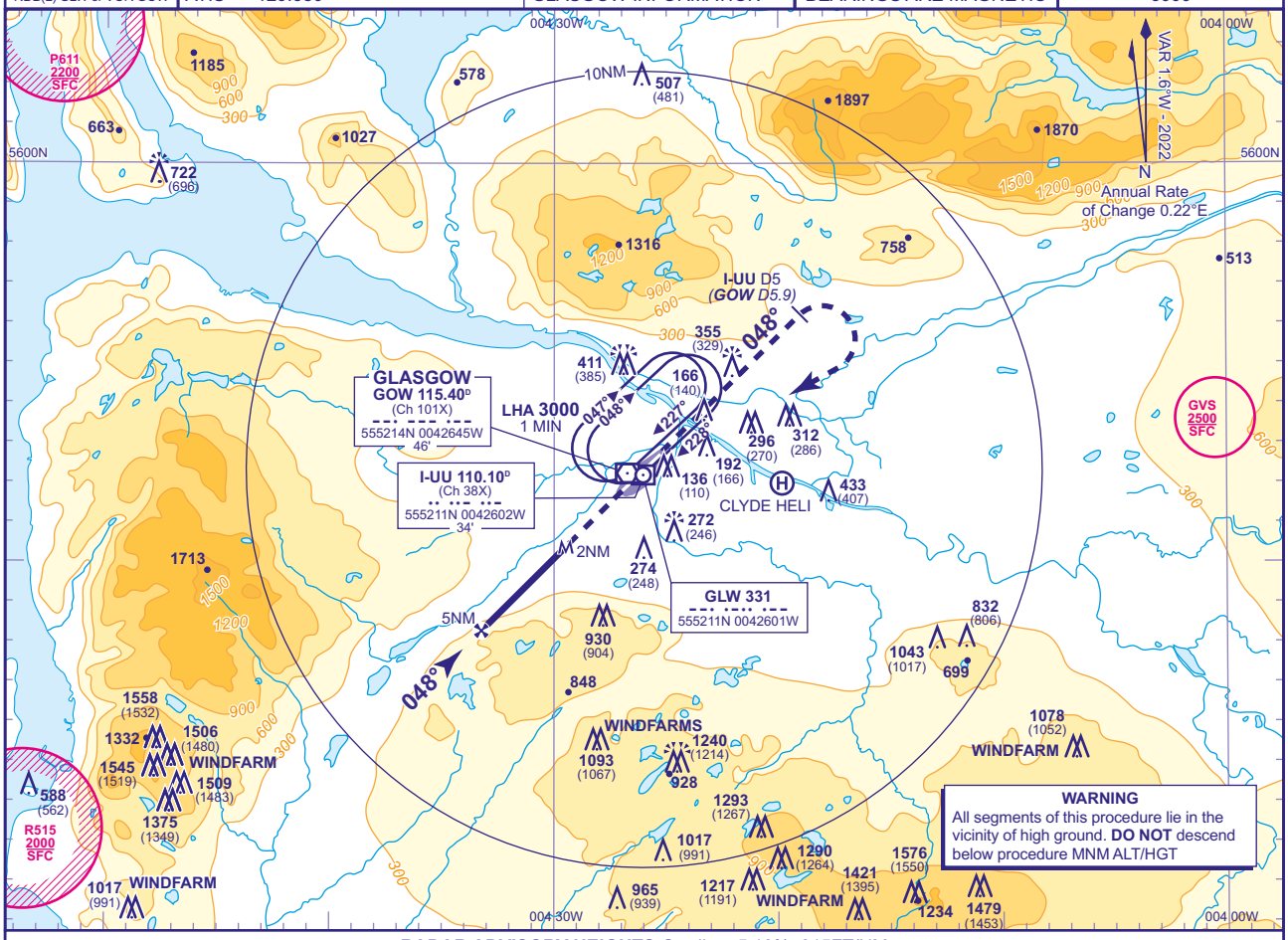
INSTRUMENT APPROACH CHART - ICAO

GLASGOW SRA RTR 2NM RWY 05
(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	26
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	
RAD	119.105, 125.255, 128.755	GLASGOW RADAR	1576 AMSL (1550) (ABOVE THR)	
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

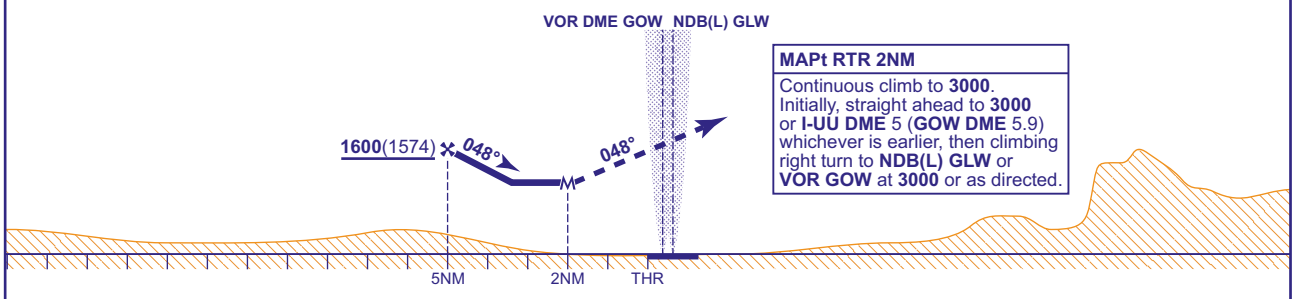
TRANSITION ALTITUDE **6000**



RADAR ADVISORY HEIGHTS Gradient 5.19%, 315FT/NM

NM	5.0	4.0
ALT(HGT)	**1600**(1574)	**1290**(1264)

Initial and intermediate approach as directed by radar. (See note 1).



MAPt RTR 2NM
Continuous climb to **3000**. Initially, straight ahead to **3000** or **I-UU DME** 5 (**GOW DME** 5.9) whichever is earlier, then climbing right turn to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**1080**(1054)	**1080**(1054)	**1080**(1054)	**1080**(1054)
VM(C)OCA (OCH AAL)	Total Area	**1080**(1054)	**1080**(1054)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420

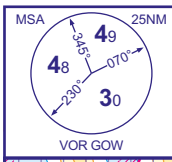
NOTE 1 Minimum descent in the intermediate approach area until with 7NM radar range to touchdown is **2000**.
2 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
3 Aircraft unable to receive DME advise ATC. Radar range will be provided (if required) at 5NM in the missed approach.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25
AD 2-EGPF-8-3

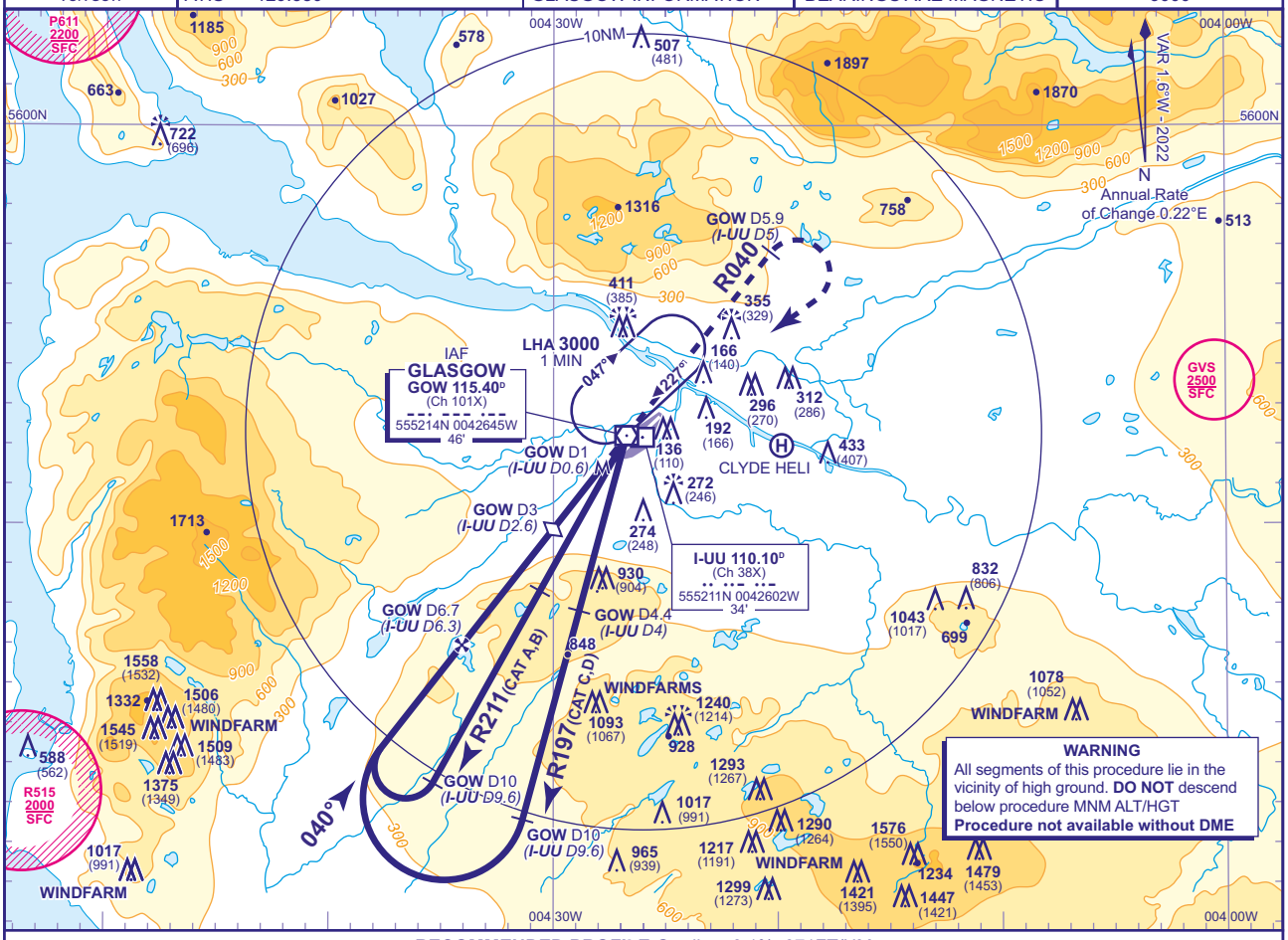
INSTRUMENT APPROACH CHART - ICAO

GLASGOW VOR/DME RWY 05
(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	26
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	
RAD	119.105, 125.255, 128.755	GLASGOW RADAR	1576 AMSL (1550) (ABOVE THR)	
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
6000

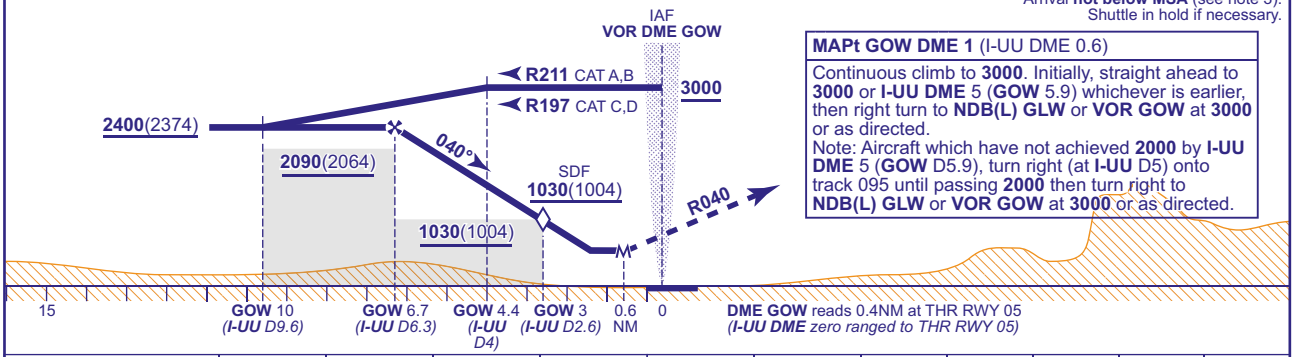


WARNING
All segments of this procedure lie in the vicinity of high ground. **DO NOT** descend below procedure MNM ALT/HGT
Procedure not available without DME

RECOMMENDED PROFILE Gradient 6.1%, 371FT/NM

DME GOW(I-UU)	6(5.6)	5(4.6)	4(3.6)	3(2.6) **(SDF)**	2(1.6)
ALT(HGT)	**2140**(2114)	**1770**(1744)	**1400**(1374)	**1030**(1004)	**660**(634)

Arrival **not below MSA** (see note 3).
Shuttle in hold if necessary.



MAPt GOW DME 1 (I-UU DME 0.6)

Continuous climb to **3000**. Initially, straight ahead to **3000** or **I-UU DME** 5 (**GOW** 5.9) whichever is earlier, then right turn to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.
Note: Aircraft which have not achieved **2000** by **I-UU DME** 5 (**GOW** D5.9), turn right (at **I-UU** D5) onto track 095 until passing **2000** then turn right to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**510**(484)	**510**(484)	**510**(484)	**510**(484)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(774)	**800**(774)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	490

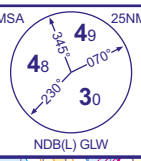
NOTE 1 FAT offset 7.5° south of extended RWY 05 C/L.
2 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
3 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
4 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25
AD 2-EGPF-8-4

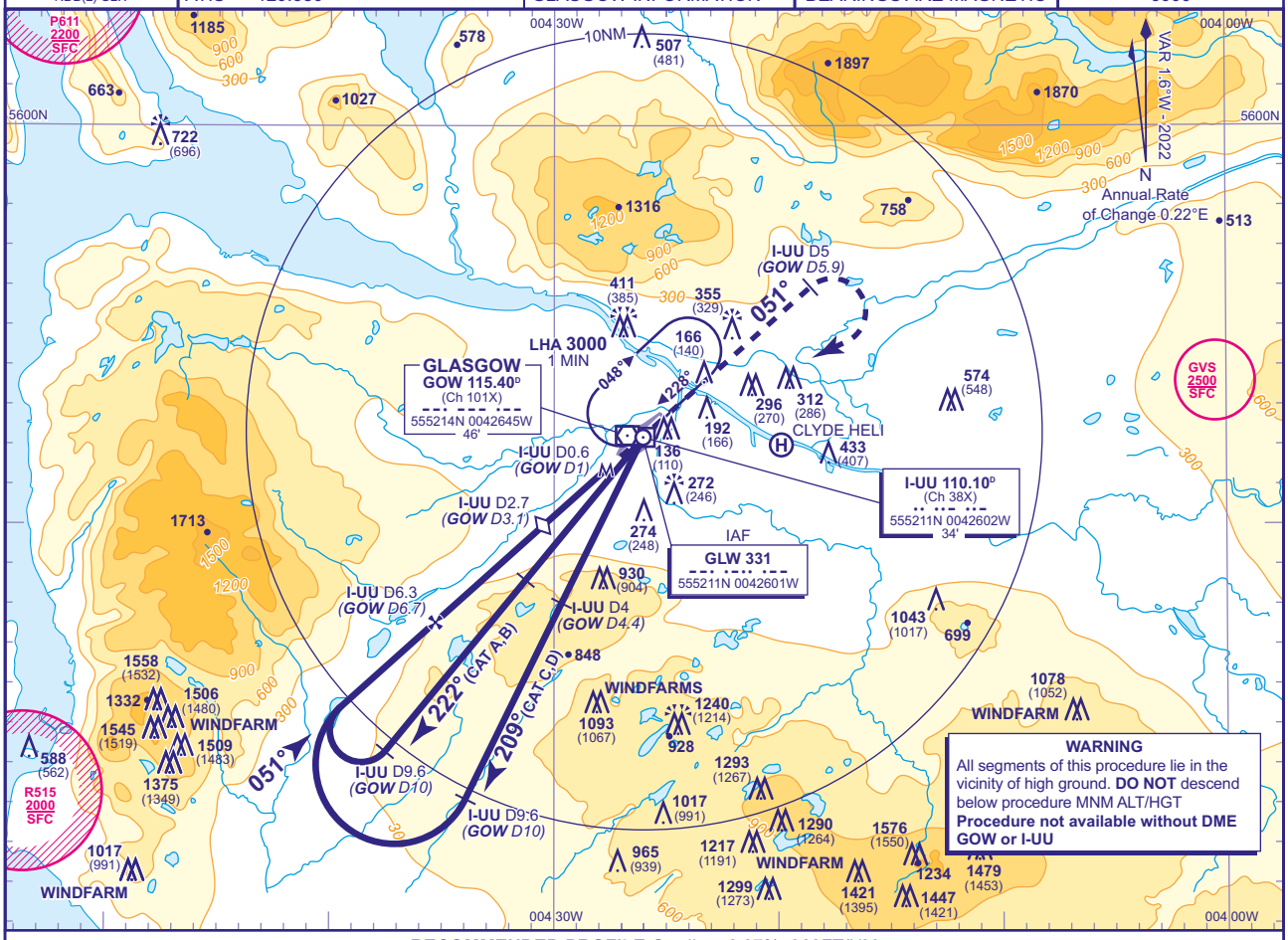
INSTRUMENT APPROACH CHART - ICAO

GLASGOW NDB(L)/DME RWY 05
(ACFT CAT A,B,C,D)



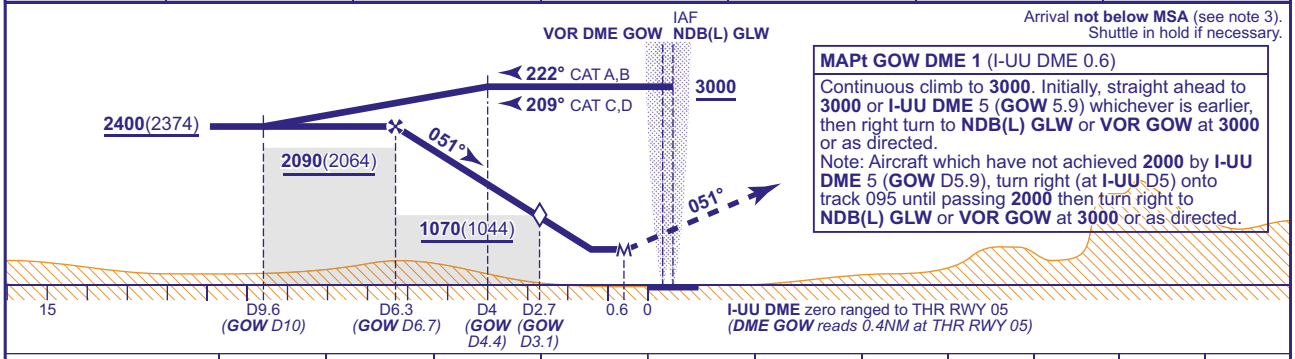
APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	26
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	1576 AMSL (1550) (ABOVE THR)
RAD	119.105, 125.255, 128.755	GLASGOW RADAR		
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 6.07%, 369FT/NM

DME I-UU(GOW)	6(6.4)	5(5.4)	4(4.4)	3(3.4)	2.7(3.1) **(SDF)**	2.0(2.4)
ALT(HGT)	**2290**(2264)	**1920**(1894)	**1550**(1524)	**1180**(1154)	**1070**(1044)	**810**(784)



Arrival **not below MSA** (see note 3).
Shuttle in hold if necessary.

MAPt GOW DME 1 (I-UU DME 0.6)

Continuous climb to **3000**. Initially, straight ahead to **3000** or **I-UU DME** 5 (**GOW** 5.9) whichever is earlier, then right turn to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.
Note: Aircraft which have not achieved **2000** by **I-UU DME** 5 (**GOW** D5.9), turn right (at **I-UU** D5) onto track 095 until passing **2000** then turn right to **NDB(L) GLW** or **VOR GOW** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**540**(514)	**540**(514)	**540**(514)	**540**(514)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(774)	**800**(774)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	980	860	740	610	490

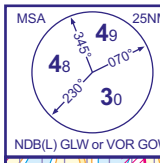
NOTE 1 FAT offset 2.5° north of extended RWY 05 C/L.
2 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
3 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
4 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25

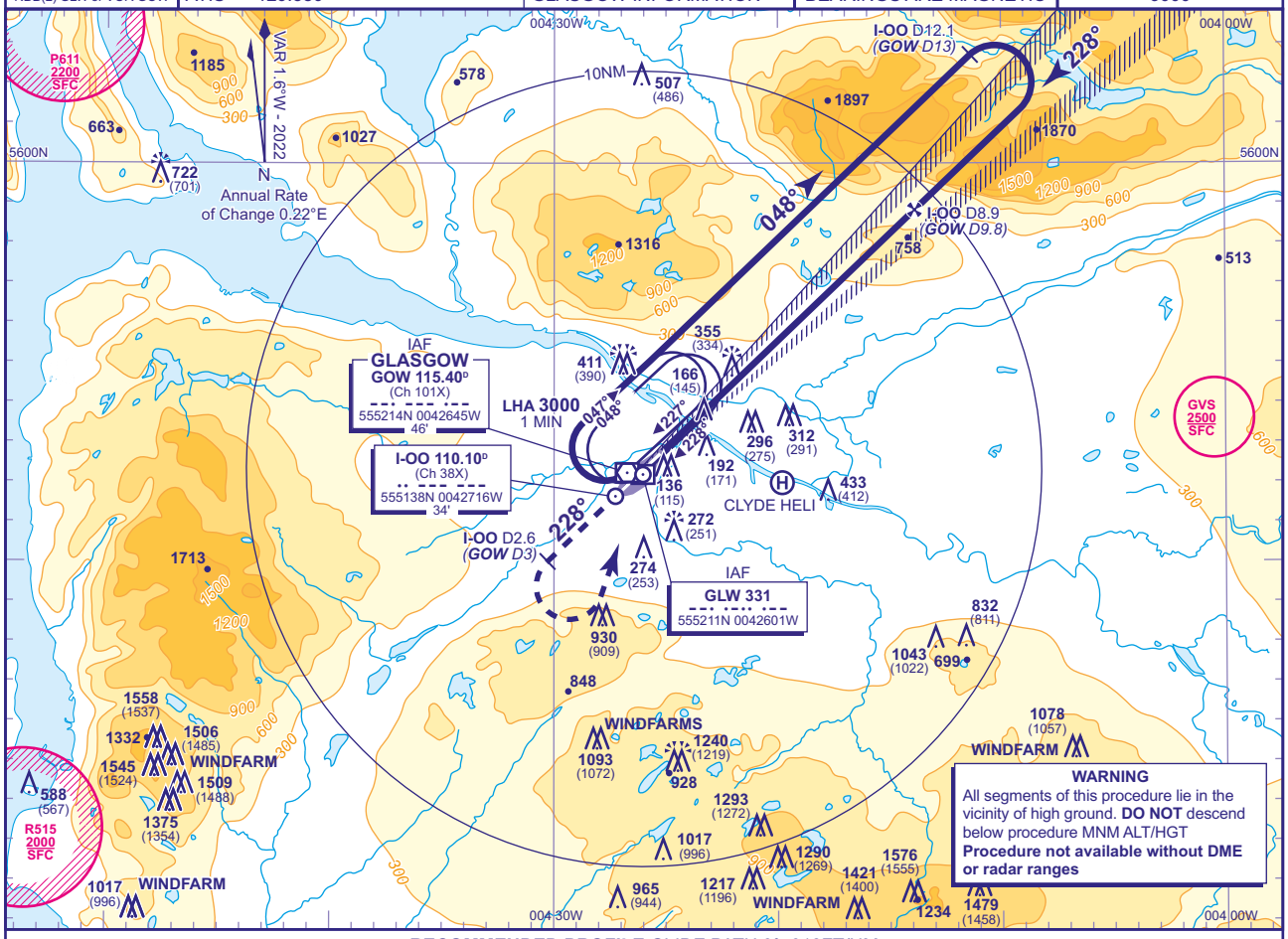
INSTRUMENT APPROACH CHART - ICAO

GLASGOW ILS/DME/VOR or NDB(L) RWY 23
(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	21
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	
RAD	119.105, 125.255, 128.755	GLASGOW RADAR	**1576 AMSL** (1555) (ABOVE THR)	
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

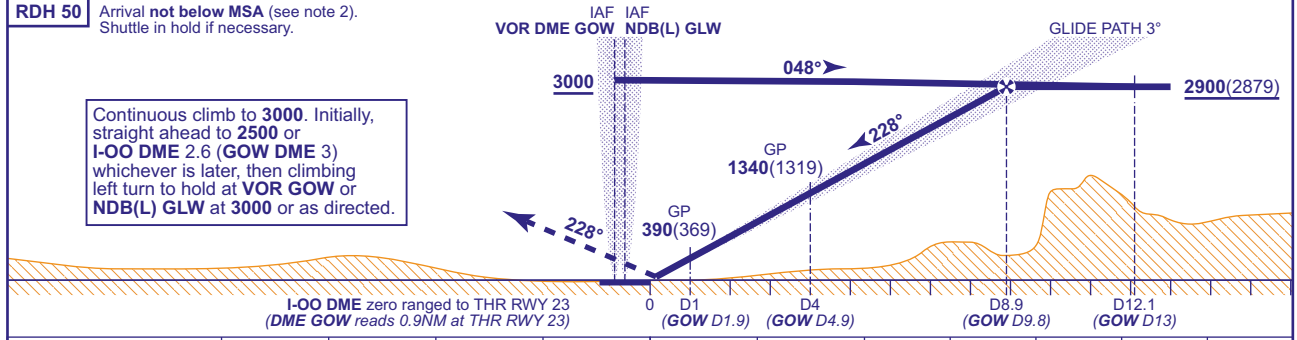


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-OO(GOW)	8(8.9)	7(7.9)	6(6.9)	5(5.9)	4(4.9)	3(3.9)	2(2.9)	1(1.9)
ALT(HGT)	**2620**(2599)	**2300**(2279)	**1980**(1959)	**1660**(1639)	**1340**(1319)	**1030**(1009)	**710**(689)	**390**(369)

RDH 50 Arrival **not below MSA** (see note 2). Shuttle in hold if necessary.

Continuous climb to **3000**. Initially, straight ahead to **2500** or **I-OO DME** 2.6 (**GOW DME** 3) whichever is later, then climbing left turn to hold at **VOR GOW** or **NDB(L) GLW** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**164**(143)	**173**(152)	**185**(164)	**198**(177)
	CAT II	**71**(50)	**81**(60)	**94**(73)	**109**(88)
VM(C)OCA (OCH AAL)	Total Area	**800**(774)	**800**(774)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-OO Advise ATC. Equivalent radar ranges will be provided at 12NM outbound and at 9NM and 4NM inbound and during the missed approach if required.

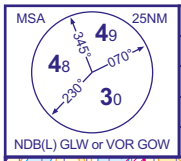
NOTE 1 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
2 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
3 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25 AD 2-EGPF-8-6

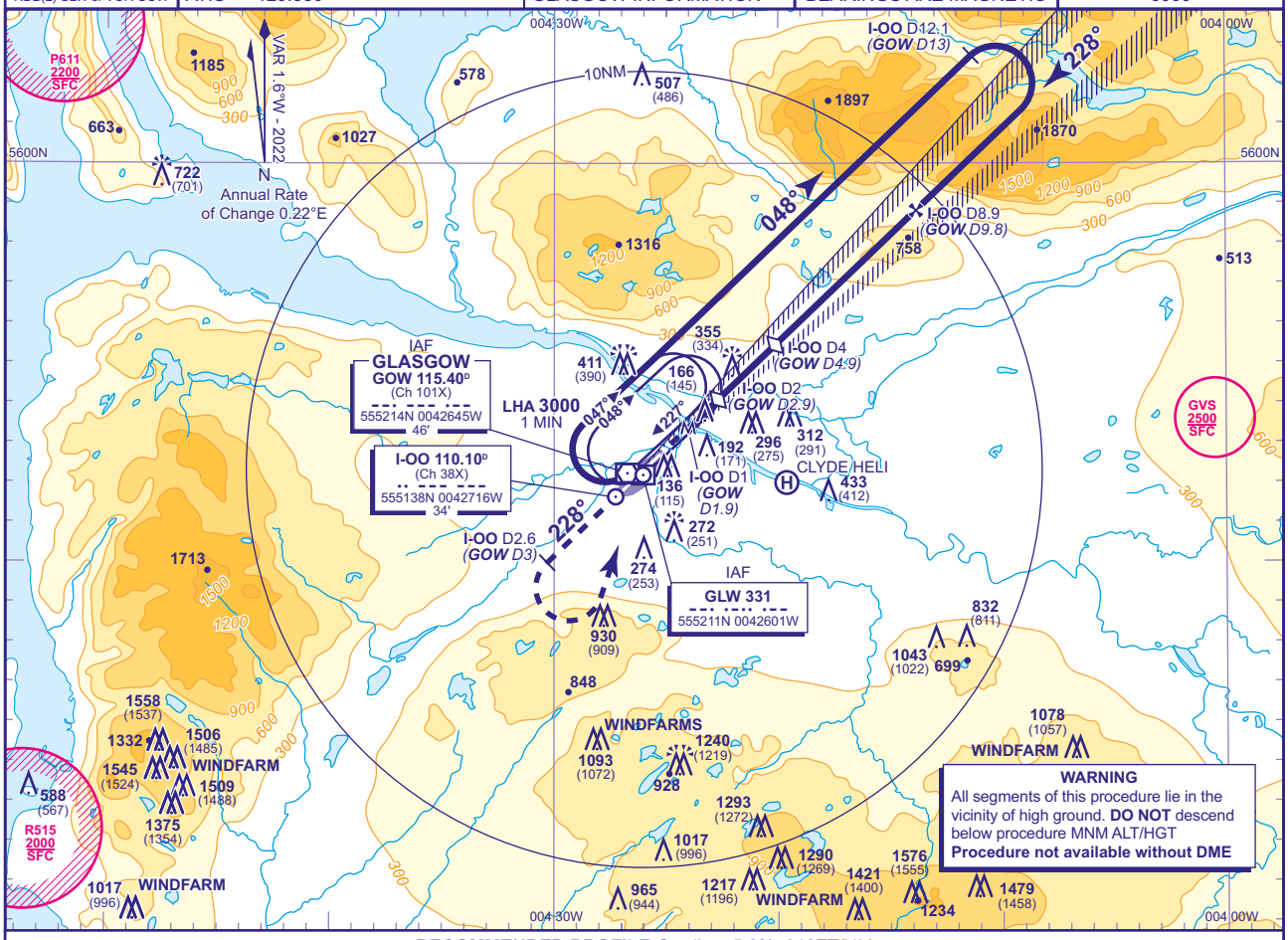
INSTRUMENT APPROACH CHART - ICAO

GLASGOW LOC/DME/VOR or NDB(L) RWY 23
(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	21
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	1576 AMSL (1555) (ABOVE THR)
RAD	119.105, 125.255, 128.755	GLASGOW RADAR		
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

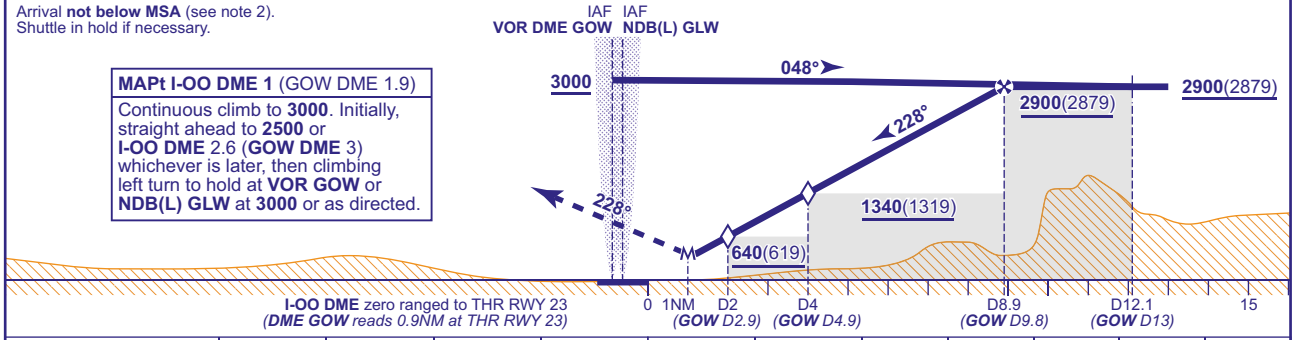


RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

DME I-OO(GOW)	8(8.9)	7(7.9)	6(6.9)	5(5.9)	4(4.9) **(SDF)**	3(3.9)	2(2.9) **(SDF)**
ALT(HGT)	**2620**(2599)	**2300**(2279)	**1980**(1959)	**1660**(1639)	**1340**(1319)	**1030**(1009)	**710**(689)

Arrival **not below MSA** (see note 2).
Shuttle in hold if necessary.

MAPt I-OO DME 1 (GOW DME 1.9)
Continuous climb to **3000**. Initially, straight ahead to **2500** or **I-OO DME** 2.6 (**GOW DME** 3) whichever is later, then climbing left turn to hold at **VOR GOW** or **NDB(L) GLW** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**430**(409)	**430**(409)	**430**(409)	**430**(409)
VM(C)OCA (OCH AAL)	Total Area	**800**(774)	**800**(774)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

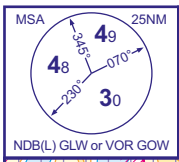
NOTE 1 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
2 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
3 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25
AD 2-EGPF-8-7

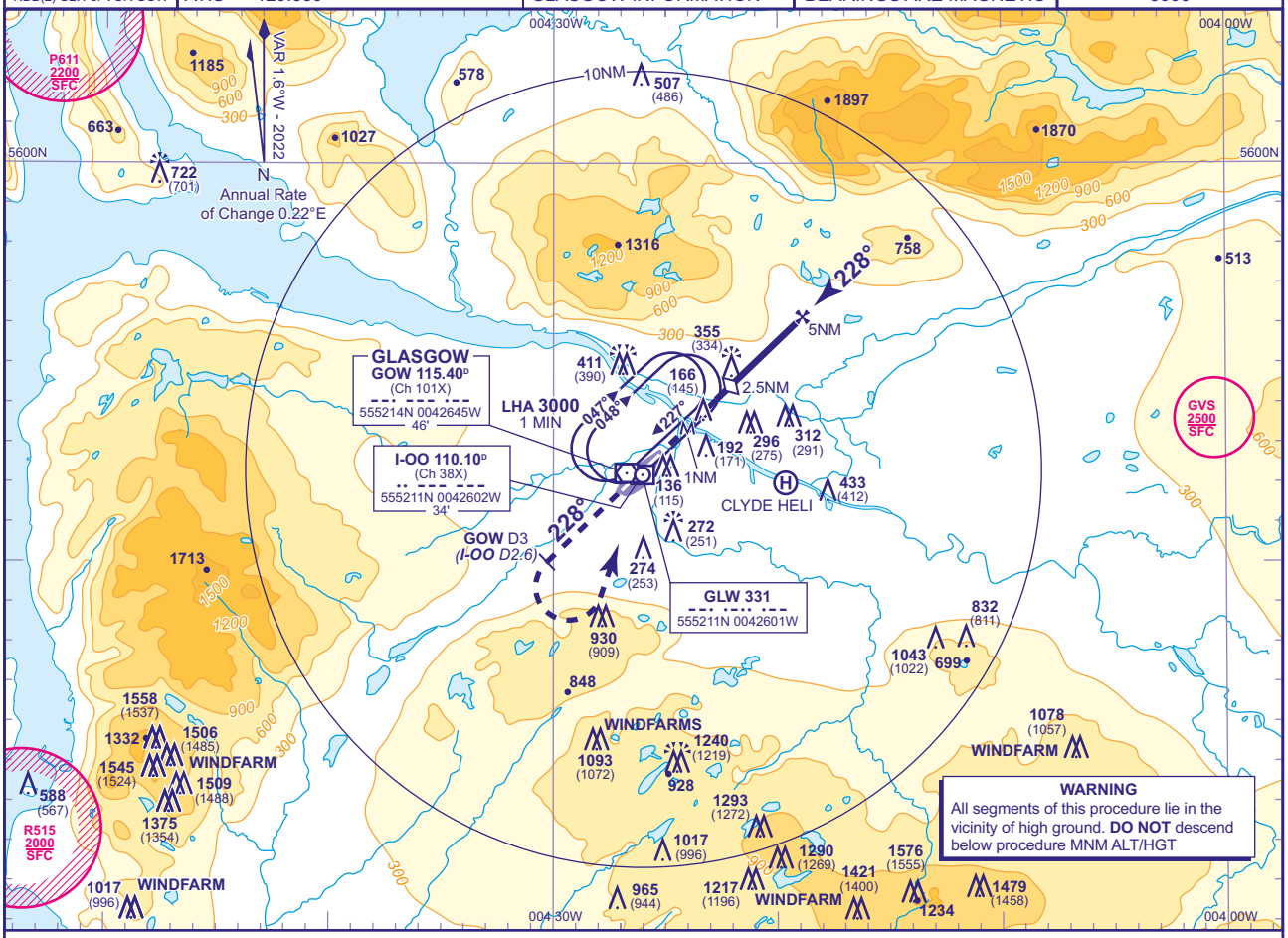
INSTRUMENT APPROACH CHART - ICAO

GLASGOW SRA RTR 2NM RWY 23
(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	21
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	
RAD	119.105, 125.255, 128.755	GLASGOW RADAR	1576 AMSL (1555) (ABOVE THR)	
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
6000



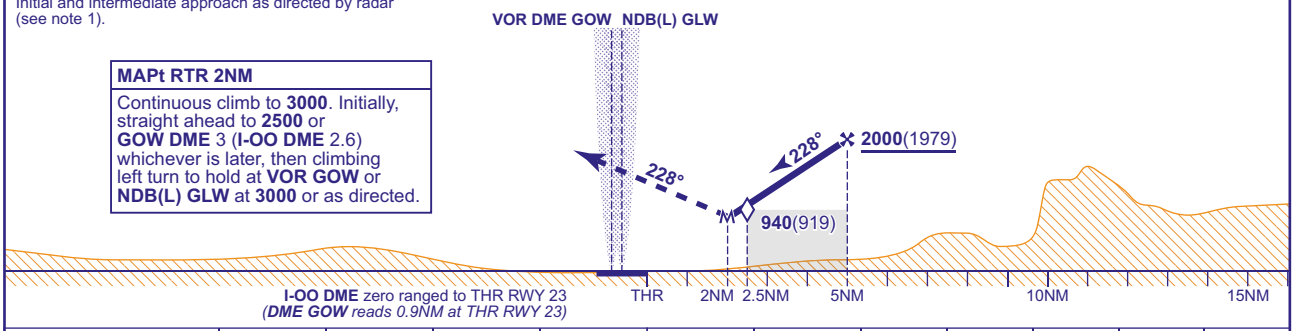
RADAR ADVISORY HEIGHTS Gradient 6.5%, 395FT/NM

NM	5.0	4.0	3.0	2.0
ALT(HGT)	**2000**(1979)	**1600**(1579)	**1210**(1189)	**810**(789)

Initial and intermediate approach as directed by radar (see note 1).

MAPt RTR 2NM

Continuous climb to **3000**. Initially, straight ahead to **2500** or **GOW DME** 3 (**I-OO DME** 2.6) whichever is later, then climbing left turn to hold at **VOR GOW** or **NDB(L) GLW** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**810**(789)	**810**(789)	**810**(789)	**810**(789)
VM(C)OCA (OCH AAL)	Total Area	**810**(784)	**810**(784)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1060	930	790	660	530

NOTE 1 Minimum descent in the intermediate approach area until within 7NM radar range to touchdown is **2000**.
2 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
3 Aircraft unable to receive DME advise ATC. Radar ranges will be provided (if required) at 3NM in the missed approach

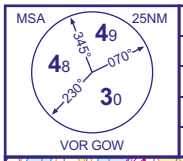
CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25

AD 2-EGPF-8-8

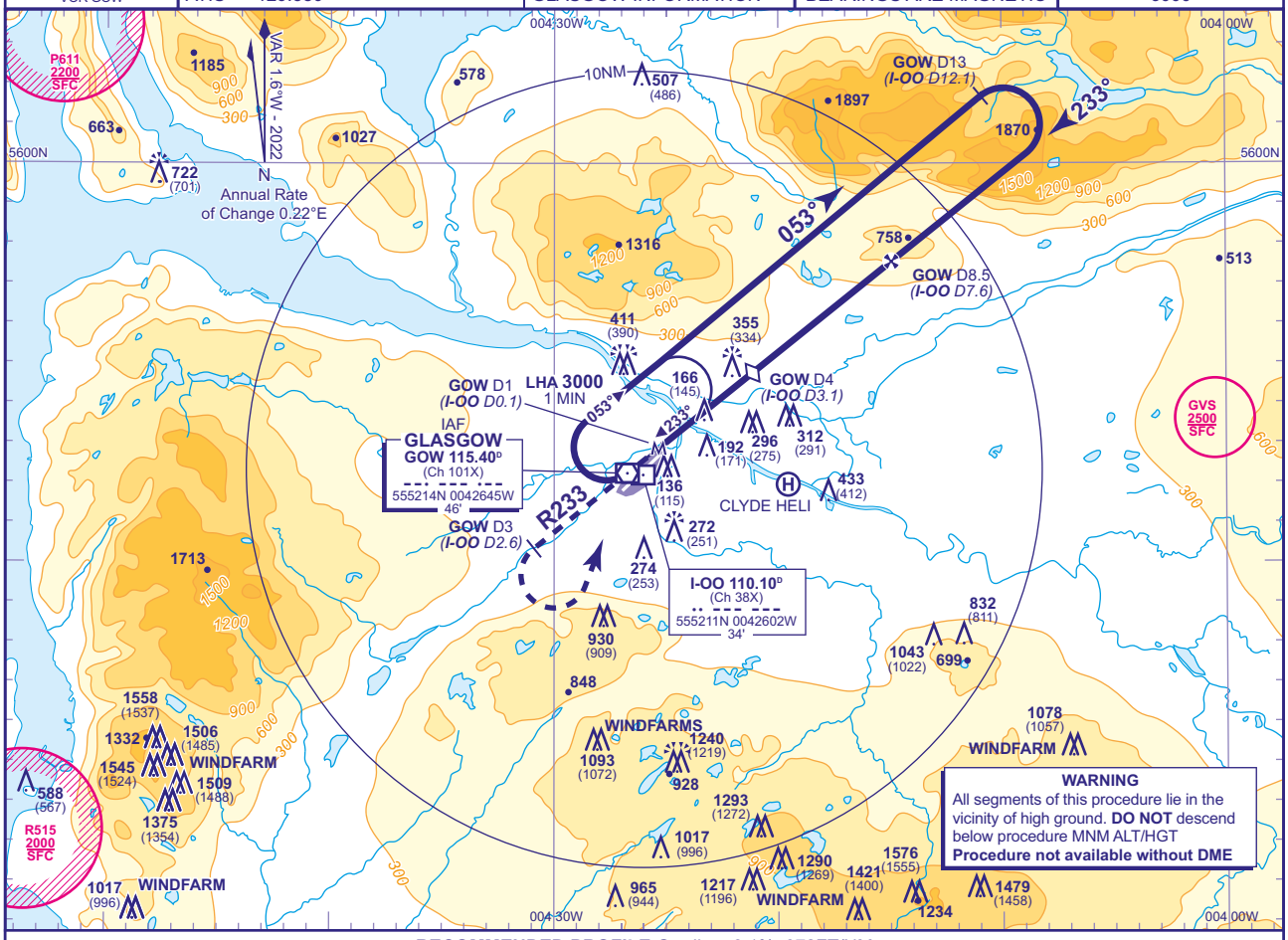
INSTRUMENT APPROACH CHART - ICAO

GLASGOW VOR/DME RWY 23
(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	21
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS	
RAD	119.105, 125.255, 128.755	GLASGOW RADAR	1576 AMSL (1555) (ABOVE THR)	
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

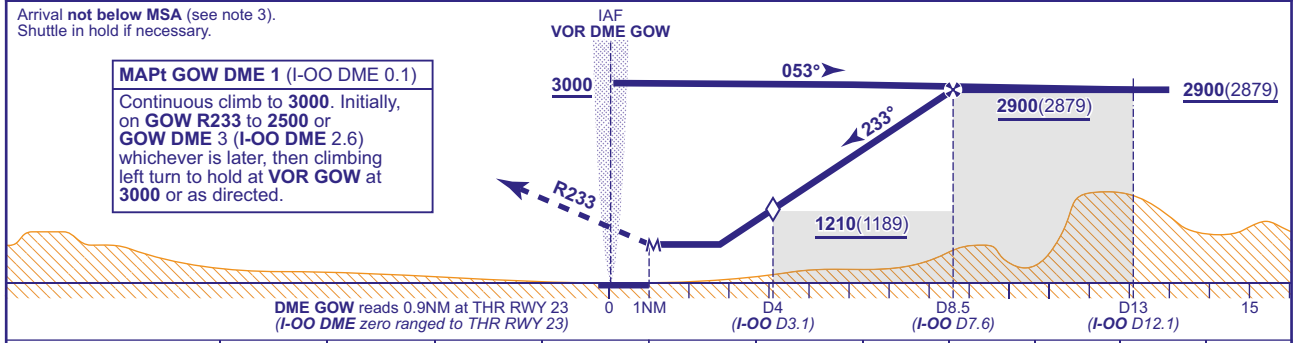


RECOMMENDED PROFILE Gradient 6.1%, 372FT/NM

DME GOW(I-OO)	8(7.1)	7(6.1)	6(5.1)	5(4.1)	4(3.1) **(SDF)**	3(2.1)
ALT(HGT)	**2700**(2679)	**2330**(2309)	**1960**(1939)	**1590**(1569)	**1210**(1189)	**840**(819)

Arrival **not below MSA** (see note 3).
Shuttle in hold if necessary.

MAPt GOW DME 1 (I-OO DME 0.1)
Continuous climb to **3000**. Initially, on **GOW R233** to **2500** or **GOW DME** 3 (**I-OO DME** 2.6) whichever is later, then climbing left turn to hold at **VOR GOW** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**610**(589)	**610**(589)	**610**(589)	**610**(589)
VM(C)OCA (OCH AAL)	Total Area	**800**(774)	**800**(774)	**1400**(1374)	**1700**(1674)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

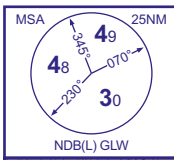
NOTE 1 FAT offset 5.5° south of extended RWY 23 C/L and intercepts 1.5NM from touchdown (**GOW DME** 2.4).
2 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
3 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
4 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25
AD 2-EGPF-8-9

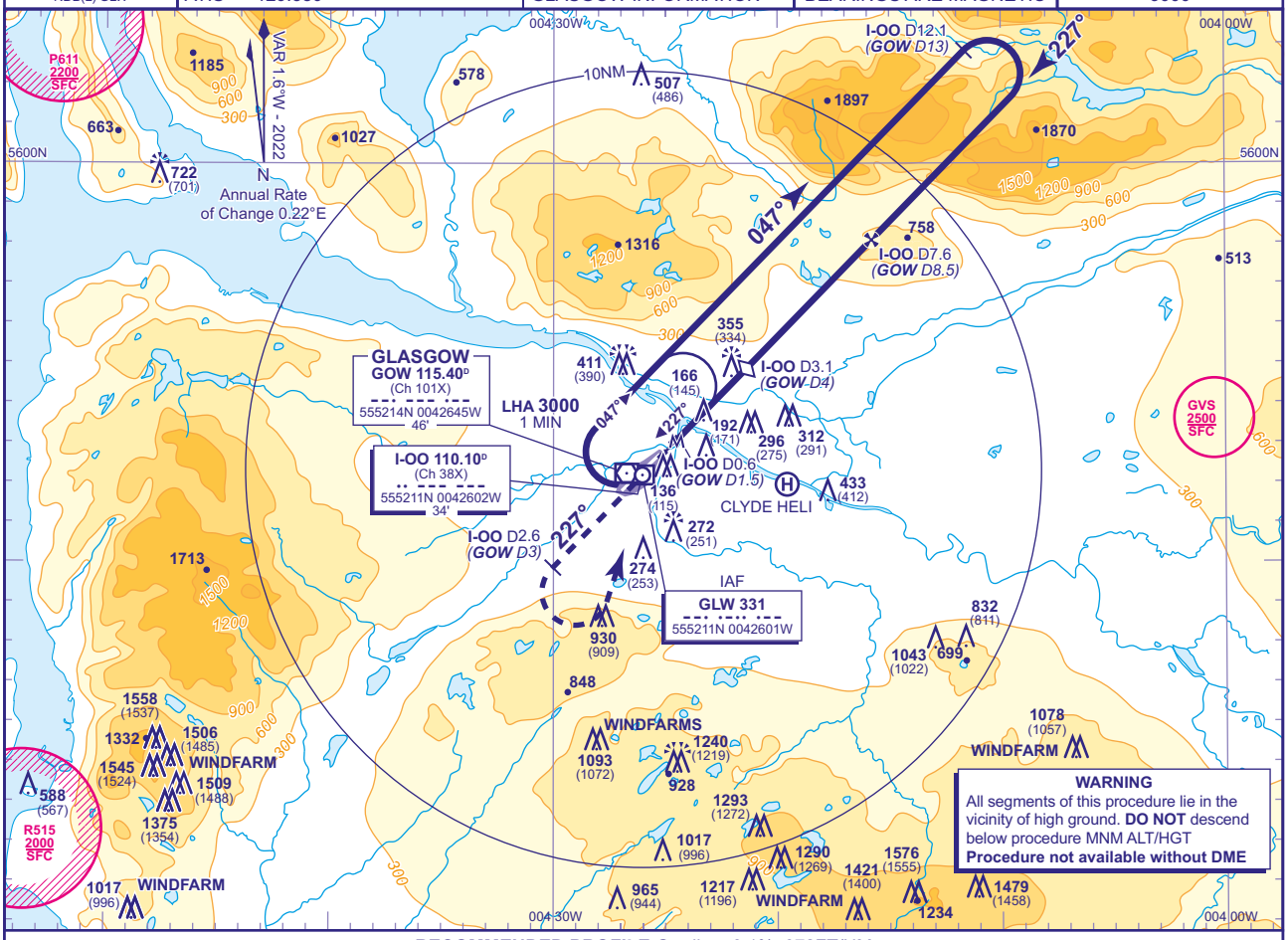
INSTRUMENT APPROACH CHART - ICAO

GLASGOW NDB(L)/DME RWY 23
(ACFT CAT A,B,C,D)



APP	119.105	GLASGOW APPROACH	AD ELEVATION	26
TWR	118.805	GLASGOW TOWER	THR ELEVATION	21
	121.705	GLASGOW GROUND	OBSTACLE ELEVATIONS 1576 AMSL (1555) (ABOVE THR)	
RAD	119.105, 125.255, 128.755	GLASGOW RADAR		
ATIS	129.580	GLASGOW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

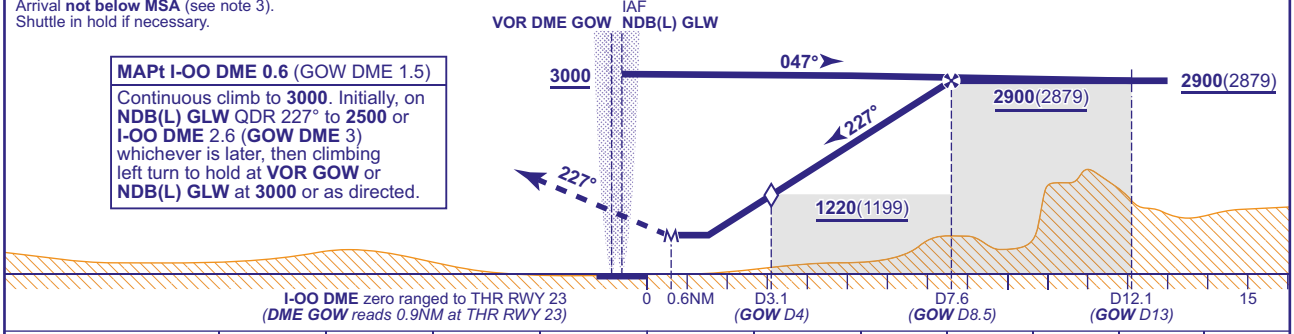


RECOMMENDED PROFILE Gradient 6.1%, 372FT/NM

DME I-OO(GOW)	7(7.9)	6(6.9)	5(5.9)	4(4.9)	3(3.9)	2(2.9)
ALT(HGT)	**2680**(2659)	**2300**(2279)	**1930**(1909)	**1560**(1539)	**1190**(1169)	**820**(799)

Arrival **not below MSA** (see note 3).
Shuttle in hold if necessary.

MAPt I-OO DME 0.6 (GOW DME 1.5)
Continuous climb to **3000**. Initially, on **NDB(L) GLW** QDR 227° to **2500** or **I-OO DME** 2.6 (**GOW DME** 3) whichever is later, then climbing left turn to hold at **VOR GOW** or **NDB(L) GLW** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**610**(589)	**610**(589)	**610**(589)	**610**(589)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(774)	**800**(774)	**1400**(1374)	**1700**(1674)

Rate of descent						
	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE 1 FAT offset 1.5° north of RWY 23 C/L.
2 Aircraft commencing the procedure from the hold will normally do so from **not below 4000**.
3 Position overhead holding fixes according to inbound routing as cleared by ATC. The normal cleared altitude at the respective terminal fix is **7000**. As this altitude is above the Transition Level, aircraft will be instructed to fly the appropriate flight level.
4 Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into the intermediate/final approach track.

CHANGE (6/25): APP, RAD, ATIS FREQUENCIES REVISED.

AERO INFO DATE 25 MAR 25
AD 2-EGPF-8-10

EGBJ — GLOUCESTERSHIRE

EGBJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBJ — GLOUCESTERSHIRE

EGBJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515339N Long: 0021002W Midpoint of Runway 09/27.
2	Direction and distance from city	3.5 NM W of Cheltenham
3	Elevation / Reference temperature / Mean Low Temperature	101 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	161 FT
5	Magnetic Variation / Annual Change	0.22°W (2022) / 0.20°E
6	AD Administration Address Telephone E-mail address Web address	GLOUCESTERSHIRE AIRPORT LTD. Gloucestershire Aerodrome, Cheltenham, Gloucestershire GL51, 6SR. 01452-857700 Ext 223 (Ops/ATC) briefing@gloucestershireairport.co.uk (Ops) www.gloucestershireairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	GA Agreement aerodrome. Refer to GEN 1.2 for notification requirements. Designated aerodrome for Special Branch purposes.

EGBJ AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830); and by arrangement.
2	Customs and immigration	As AD hours
3	Health and sanitation	
4	AIS Briefing Office	As AD hours. Self briefing.
5	ATS Reporting Office (ARO)	As AD hours. Located in Terminal building, no access to Control Tower.
6	MET Briefing Office	As AD hours. Self briefing.
7	ATS	Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830); and by arrangement. See also AD 2.18.
8	Fuelling	As AD hours. Assisted fuelling available upon opening and until 15 minutes prior to closing.
9	Handling	
10	Security	During public transport operations and by arrangement.
11	De-icing	
12	Remarks	Aerodrome is strictly PPR. PPR must still be obtained in addition to the filing of a flight plan. Commanders shall book in with operations on Tel: 01452-857700 Ext 223. Certain flights not requiring Licensed facilities may operate H24 strictly by prior arrangement.

EGBJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (All JET-A1 Pre mixed with AL48), AVGAS 100LL Aviation greases., W80, W100, 100, S80, Multigrade, Turbine oils
3	Fuelling facilities/capacity	Jet A-1 Mobile bowsers 127,000 LT. AVGAS fixed installation 52,000 LT.
4	De-icing facilities	
5	Hangar space for visiting aircraft	By arrangement.
6	Repair facilities for visiting aircraft	Full up to 5700 KG AUW Rotary and fixed-wing.

7	Remarks	Mandatory handling may be applicable, see aerodrome scale of charges for further information. Aircraft handling agencies are: Weston Aviation: 01452-933698; gloucestershire@westonaviation.com. Gloucestershire Airport Operations: 01452-857700; briefing@gloucestershireairport.co.uk. The Little Jet Company: 01452-857606; info@thelittlejetcompany.com. Flight Partner: 01452-856222; ops@flightpartner.co.uk.

EGBJ AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in vicinity.
2	Restaurants	On AD.
3	Transportation	Taxis, Car hire, Buses. Nearest station Cheltenham 2.5 NM.
4	Medical facilities	Limited First Aid.
5	Bank and Post Office	Within 1.5 NM vicinity of AD.
6	Tourist Office	Local information available in Terminal. Nearest office Cheltenham 2.5 NM.
7	Remarks	Accommodation and transportation arrangements can be made via Handling Agent or Aerodrome Ops.

EGBJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4 Category 5 available on request.
2	Rescue equipment	1 x MFV plus 1 x TACR 3. Hydraulic cutting equipment.
3	Capability for removal of disabled aircraft	Limited. Details from Aerodrome Authority.
4	Remarks	Flights operating for the public transport of passengers or otherwise requiring the use of a licensed aerodrome, will automatically be provided with the appropriate RFFS Category. A minimum quantity of 5250 L of water and 586 L of concentrate Level C foam is deployable.

EGBJ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	No method of braking action assessment available.

EGBJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	A Surface: Asphalt PCN 16/F/B/W/U B Surface: Asphalt C Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A: 11 M Surface: Asphalt PCN 16/F/B/W/U Taxiway B: 14 M Surface: Asphalt Taxiway C: 14 M Surface: Asphalt Taxiway D: 18 M Surface: Asphalt

		Taxiway E: 15 M Surface: Asphalt Taxiway G: 8 M Surface: Asphalt Taxiway H: 10 M Surface: Asphalt Taxiway J: 8 M Surface: Asphalt Taxiway J is 10.5 M then narrows to 8 M after 150 M. Taxiway K: 18 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	Reinforced grass apron west of Apron A suitable for aircraft up to 2300 KG MTWA.

EGBJ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1 and 2 have Self manoeuvring markings. AVGAS helicopter refuelling point and hard standing parking marked with circled 'H'.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 04/22: Runway designation, threshold, centre-line and edge markings. Runway intersections marked. 09/27: Runway designation, threshold, centre-line and edge markings. Runway intersections marked. Taxiway marking aid(s): All taxiways yellow centre-line. See AD 2.20 paragraph 2.
3	Stop bars and runway guard lights (if any)	Runway guard lights at A1, A2, A3, C1, D1, E2 & G1.
4	Other runway protection measures	
5	Remarks	WDI (LGTD): 515334.78N 0021001.19W, 515330.48N 0020939.52W. Compass swing area marked at Taxiway D and Taxiway G. Helicopter parking as directed by ATC and with a marshaller if available.

EGBJ AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBJ11869) 27/APPROACH	TREE	515508.05N 0020029.20W	1125 FT	60 FT	No	
(EGBJ10484) 22/APPROACH 04/ TAKE-OFF	TREE	515355.00N 0020918.97W	159 FT	74 FT	No	
(EGBJ7173) 22/APPROACH 04/ TAKE-OFF	BUILDING	515351.67N 0020932.13W	127 FT	19 FT	No	
(EGBJ9644) 22/APPROACH 04/ TAKE-OFF	TREE	515351.17N 0020930.85W	129 FT	19 FT	No	
(EGBJ12673) 22/APPROACH 04/ TAKE-OFF	MOBILE OBST	515349.56N 0020928.40W	125 FT	16 FT	No	
(EGBJ12672) 22/APPROACH 04/ TAKE-OFF	MOBILE OBST	515348.84N 0020927.09W	125 FT	17 FT	No	
(EGBJ11696) 09/TAKE-OFF	CHURCH SPIRE WV	515347.20N 0020620.30W	351 FT	155 FT	No	
(EGBJ10473) 27/APPROACH 09/ TAKE-OFF	TREE	515346.89N 0020923.88W	136 FT	33 FT	No	
(EGBJ10758) 27/APPROACH 09/ TAKE-OFF	TREE	515344.78N 0020920.66W	131 FT	24 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBJ10757) 27/APPROACH 09/ TAKE-OFF	TREE	515344.52N 0020921.72W	133 FT	25 FT	No	
(EGBJ10464) 27/APPROACH 09/ TAKE-OFF	TREE	515344.20N 0020914.79W	137 FT	39 FT	No	
(EGBJ10769) 27/APPROACH 09/ TAKE-OFF	TREE	515343.45N 0020917.31W	139 FT	33 FT	No	
(EGBJ10768) 27/APPROACH 09/ TAKE-OFF	TREE	515342.76N 0020920.22W	133 FT	22 FT	No	
(EGBJ11660) 27/APPROACH 09/ TAKE-OFF	TREE	515342.66N 0020914.49W	138 FT	37 FT	No	
(EGBJ10763) 27/APPROACH 09/ TAKE-OFF	BUSH	515342.43N 0020921.78W	126 FT	14 FT	No	
(EGBJ10779) 27/APPROACH 09/ TAKE-OFF	TREE	515340.97N 0020917.32W	139 FT	30 FT	No	
(EGBJ10778) 27/APPROACH 09/ TAKE-OFF	TREE	515340.95N 0020918.60W	139 FT	27 FT	No	
(EGBJ10987) 09/APPROACH 27/ TAKE-OFF	TREE	515338.60N 0021101.88W	137 FT	61 FT	No	
(EGBJ11237) 09/APPROACH 27/ TAKE-OFF	TREE	515338.19N 0021054.42W	125 FT	57 FT	No	
(EGBJ10985) 09/APPROACH 27/ TAKE-OFF	TREE	515337.58N 0021102.53W	136 FT	60 FT	No	
(EGBJ11416) 09/TAKE-OFF	CRANE JIB	515337.42N 0020748.20W	237 FT	98 FT	Yes Red	
(EGBJ10052) 09/APPROACH 27/ TAKE-OFF	TREE	515337.32N 0021053.77W	110 FT	41 FT	No	
(EGBJ10983) 09/APPROACH 27/ TAKE-OFF	TREE	515336.84N 0021058.61W	123 FT	47 FT	No	
(EGBJ10049) 09/APPROACH 27/ TAKE-OFF	TREE	515336.79N 0021053.40W	112 FT	42 FT	No	
(EGBJ10982) 09/APPROACH 27/ TAKE-OFF	TREE	515336.55N 0021100.57W	138 FT	61 FT	No	
(EGBJ10047) 09/APPROACH 27/ TAKE-OFF	TREE	515336.42N 0021053.25W	107 FT	35 FT	No	
(EGBJ10978) 09/APPROACH 27/ TAKE-OFF	TREE	515335.89N 0021059.62W	138 FT	60 FT	No	
(EGBJ7762) 09/APPROACH 27/ TAKE-OFF	AERIAL	515334.02N 0021050.88W	97 FT	24 FT	No	
(EGBJ10957) 09/APPROACH 27/ TAKE-OFF	TREE	515333.15N 0021042.87W	105 FT	44 FT	No	
(EGBJ10970) 09/APPROACH 27/ TAKE-OFF	TREE	515333.10N 0021106.26W	140 FT	63 FT	No	
(EGBJ11194) 09/APPROACH 27/ TAKE-OFF	TREE	515332.07N 0021107.59W	145 FT	68 FT	No	
(EGBJ10962) 09/APPROACH 27/ TAKE-OFF	TREE	515331.14N 0021058.93W	141 FT	65 FT	No	
(EGBJ11824) 27/APPROACH	HV PYLON	515327.73N 0020035.15W	993 FT	156 FT	No	
(EGBJ10876) 04/APPROACH 22/ TAKE-OFF	TREE	515315.95N 0021010.88W	116 FT	46 FT	No	
(EGBJ10855) 04/APPROACH 22/ TAKE-OFF	TREE	515314.50N 0021008.83W	113 FT	40 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBJ12020)	TREE	515550.22N 0020153.07W	791 FT	99 FT	No	
(EGBJ12023)	TREE	515547.06N 0020147.39W	857 FT	85 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBJ11775)	MAST	515205.96N 0021025.06W	580 FT	105 FT	Yes Red	

EGBJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Form 214/215/415 TAF/METAR AIRMET. Internet access.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Routine observations made at H+20 and H+50 during AD hours. Observations may occasionally be 'Unofficial'.

EGBJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
04	034.65°	980 x 23 M	RWY surface: Asphalt	515319.00N 0021005.29W 161.0 FT	THR 82.6 FT	
22	214.66°	980 x 23 M	RWY surface: Asphalt	515342.81N 0020938.69W 161.0 FT	THR 86.1 FT	
09	083.75°	1432 x 30 M	RWY surface: Asphalt, Grooved PCN 20/F/C/X/T	515336.29N 0021037.48W 161.0 FT	THR 73.5 FT	
27	263.77°	1432 x 30 M	RWY surface: Asphalt, Grooved PCN 20/F/C/X/T	515340.21N 0020939.54W 161.0 FT	THR 87.4 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
	111 x 80 M	1166 x 80 M				RWY 04
	93 x 80 M	1166 x 80 M				RWY 22 Landing threshold displaced by 89 M.
	40 x 140 M	1394 x 280 M	90 x 74 M -			RWY 09 Landing threshold displaced by 33 M.
	2 x 140 M	1394 x 280 M	90 x 74 M -			RWY 27 Landing threshold displaced by 286 M.

EGBJ AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1271 M	1311 M	1271 M	1241 M	Runway 09 LDA ends 160 M before end of paved surface due to RESA provision.
27	1317 M	1319 M	1317 M	1147 M	
27	1163 M	1165 M	1163 M		Take-off from intersection with Hold A1/A2/ A3.
09	1154 M	1194 M	1154 M		Take-off from intersection with Hold C1.
04	980 M	1091 M	1046 M	980 M	
22	980 M	1073 M	980 M	891 M	

EGBJ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
04			APAPI Left/4.5° 20 FT 115 M						
22			APAPI Left/3.5° 23 FT 115 M						
09	Basic. Centre-line lighting 30 M spacing. 230 M Light intensity high	Green Light intensity high Wingbar	PAPI Left/3° 46 FT 264 M			Elev bi-directional 1431 M 59 M spacing White with yellow caution zone Light intensity high	Red		
27	Intermediate. Centre-line lighting 30 M spacing with two crossbars. 312 M Light intensity high	Green Light intensity high Wingbar	PAPI Left/3.5° 43 FT 214 M			Elev bi-directional 1431m 59 M spacing White with yellow caution zone Light intensity high	Red		

EGBJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 515331.89N 0021004.44W Flashing Green 'GO'. Approx. 270 M south of midpoint Runway 09/27. As required during AD hours.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 515329.41N 0021007.82W (LGTD).
3	TWY edge and centre line lighting	CL: Taxiway A green centre-line lighting, Taxiway A, B and C reflective blue studs, Taxiway Echo - blue lin-laners. EDGE: All south side runway intersections and Hold A2/A3 area blue edge lighting and reflective markers.
4	Secondary power supply/switch-over time	Max. 10 seconds.
5	Remarks	Apron floodlighting.

EGBJ AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Three grass Helicopter training areas; Heli Northeast, Northwest and Southwest are established. An additional aiming point is provided at Heli South, adjacent to Taxiway J. Refer to aerodrome chart. Helicopter Holding points 'Y' and 'X' established north and south of Runway 27 threshold. Helicopter procedures detailed at AD 2.20 Section 5.

EGBJ AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
GLOUCESTERSHIRE ATZ A circle, 2 NM radius, centred at 515339N 0021002W on longest notified runway (09/27)	Upper limit: 2000 FT AGL Lower limit: SFC	G	GLOSTER APPROACH English	3000 FT		

EGBJ AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	GLOSTER APPROACH	128.555 DOC 25 NM/7,000 FT.			Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	ATZ hours coincident with Approach hours. See AD 2.20 para 4(j) Warnings. VDF 515331.51N 0020938.70W On AD. Bearing accuracy no better than Class B.
TWR	GLOSTER TOWER	122.905 DOC 10 NM/3,000 FT. May occasionally be combined with APP. Refer to ATIS.			Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	
RADAR	GLOSTER RADAR	120.980 DOC 25 NM/ 10,000 FT. Not continuously monitored during aerodrome hours.			As Directed by ATC	Radar services (Primary only) within 25 NM below FL 80, availability subject to manning. Use of 'Radar' suffix denotes availability only. Provision of a specific radar service is not implied. VDF 515331.51N 0020938.70W On AD. Bearing accuracy no better than Class B.
		128.555 DOC 25 NM/7,000 FT.			Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
ATIS	GLOSTER INFORMATION	127.480 DOC 60 NM/ 20,000 FT.			Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	
OTHER	FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGBJ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.62°E (2027)	IGOS	109.950 MHz	Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	515335.64N 0021047.01W		(RWY 27) For both TX's the GP structure goes out of the 95% probability tolerance between 8.5 - 7 NM. GP RF level on both TX slices out of tolerance beyond 8.5 NM, however full fly-up still achieved.
ILS/GP	IGOS	333.650 MHz	Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	515341.99N 0020952.21W		3.5° ILS Ref Datum Hgt 40 FT. For both TX's the GP structure goes out of the 95% probability tolerance between 8.5 - 7 NM. GP RF level on both TX slices out of tolerance beyond 8.5 NM, however full fly-up still achieved.
DME	IGOS	36Y 109.950 MHz	Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	515331.89N 0021004.54W	111 FT	(RWY 27) On AD. DME range on Runway 27 Approach is limited to 9.5 NM. DME range on Runway 27 on the extended centreline from 9.5 NM to 25 NM is unusable below 1400 FT. DME range on Runway 27 on the extended centreline beyond 25 NM is unusable below 4000 FT. DOC 25 NM/25,000 FT.
NDB (L) 0.63°E (2027)	GST	331.000 kHz	Mon-Fri 0830-1930 (0730-1830); Sat, Sun 0900-1800 (0800-1830).	515331.03N 0021004.45W		On AD. Radiates as an NDB out of approach hours up to 25 NM. Locator GST 331.000 kHz only available up to 10 NM. Interference may occur within 5 NM of Droitwich. Some ADF equipment may exhibit occasional bearing fluctuations during the approach to Runway 27.

EGBJ AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) The use of the aerodrome is subject to Airport Terms and Conditions of Use, Byelaws and Code of Practice, copies available from Admin department.
b) PPR mandatory for all flights. Slot booking system in place.
c) All pilots not filing flight plans are required to book-out at Flight Briefing or by telephone to ATC, stating estimated elapsed flight time, fuel endurance and POB. PPR required in addition to a flight plan, including all IAP.
d) Requests for extensions to AD hours are to be made as soon as reasonably practicable to Operations.
e) The use of the aerodrome outside published hours is subject to authorisation from Aerodrome Operator.
f) PPE (high visibility jackets) must be worn by all pilots and personnel airside.

2 GROUND MOVEMENT

a) Centre-line markings on taxi-lanes within Maintenance Area provide guidance only. Area shared by parked aircraft, uncontrolled authorised vehicles and pedestrians. Licensing and obstacle clearance criteria relating to taxiways not necessarily met. Marshalling assistance available on request.
b) Stands 1 and 2 Self-manoeuvring markings for aircraft with a wingspan up to 24 M. Self-manoeuvring GA parking on western side of Apron A for aircraft with a wingspan up to 15 M. Marshalling assistance available on request.
c) Aircraft commanders are requested to use minimum power settings when manoeuvring on Stands 1 and 2.
d) Helicopter parking on west side of Apron A and on grass spots southwest of Control Tower. Stand 1 not available to helicopters unable to ground taxi. Pad 2 available during operating/daylight hours only and for the use of tower apron rotary only. Outside operating/daylight hours Pad 2 for the use of National Police helicopter only.
e) During Low Visibility Procedures, runway access/egress via A2 or A3 only. All other taxiways closed.
f) Power checks to be completed at holding points. Aircraft should position as close as possible to holding points.
g) Fixed wing aircraft should not taxi within three rotor diameters of rotors running helicopters.
h) During taxiing, pilots should exercise caution when taxiing from apron Alpha towards taxiway Alpha, especially in the vicinity of runway holding points A1, A2 and A3. A left turn should be made to the south of A2 to enter taxiway Alpha when taxiing for either Runway 04 or 09.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Turbulence may be encountered overflying industrial area on final approach Runway 22 and when crossing airfield perimeter on final Runway 27.
b) Runway 04/22 prone to standing water after prolonged rain. Runway state available from ATC. Runway may not be available for turbine engined departures.
c) Bird hazard. Flocks of gulls may be encountered crossing airfield approaches particularly at dawn and dusk.
d) A public road runs through the undershoot of Runway 22 and 27. Pilots should not approach below the PAPI glidepath.
e) To avoid possible jet efflux, pilots should avoid overflight of the engine test bed located approx. 300 M B3 Hold.
f) Extensive Instrument training takes place throughout AD hours in IMC and VMC. Pilots intending to transit via GST below 5000 FT AMSL or in the vicinity of IAPs bounded by the co-ordinates: 515156.76N 0023430.78W (KUPET) - 515658.92N 0023005.91W (UVNOP) - 515942.11N 0015429.46W (LAPKU) - 514946.46N 0015243.99W (REKLO) - 514739.45N 0022823.06W (SOSAB), are advised to contact Gloster Approach.
g) Glider and hang glider activity takes place along the Cotswold hills to the east and south of the aerodrome without notification to ATC.
h) Runway 09/27 undulates from its western end for approximately 400 M. From the 09 end, the runway slopes down to a trough at 156 M, then rises to a peak at 264 M with the next trough at 384 M. Overall and local longitudinal slopes are compliant; however, the rate of change of subsequent slope changes exceeds CAP168 requirements by 0.05% & 0.08%.
i) Certain flights may operate outside AD/ATS/ATZ hours, making blind transmissions on 128.555.
j) Public road runs adjacent to eastern airfield perimeter, penetrating Approach surfaces for Runways 22 and 27 and Take-off Climb surfaces for Runways 04 and 09. Co-ordinates relate to that portion of road closest to runway centre-lines, elevations relate to maximum penetration.
k) Pylons and HT cables run from bearing 127°-181° MAG and 214°-275° MAG penetrating inner horizontal surface. Co-ordinates relate to position and elevation of greatest penetration.
l) Road traffic control system in operation, activated by ATC. Mobile obstacle (vehicles) above 2.5 M stopped during non-training precision approaches when visibility less than 5000 M and on request for 09 departures.
m) Microlight flying takes place at Over Farm (515238N 0021657W) approximately 4.3 NM west south west of Gloucestershire Airport. Microlights carry out standard overhead joins, departures and circuits at this location and normally fly up to 1500 FT AGL in the vicinity of Over Farm.

5 HELICOPTER OPERATIONS

a) Helicopters communicating with Gloster Air Traffic Control should prefix each transmission of their call sign with the word “Helicopter” e.g. “Helicopter G-AB (or Helicopter AB) downwind”, “Gloster Tower, Helicopter 123B, on the tower apron request start-up”, “Gloster Approach, Helicopter GABCD inbound”.
b) Helicopters capable of doing so should ground taxi rather than air taxi when operating on aprons and in areas where aircraft are parked or holding. Helicopters should ground taxi onto manoeuvring area before lifting. When air taxiing is unavoidable, helicopters should avoid taxiing within three rotor diameters of other aircraft. This distance should be considered as a minimum and should be increased for larger helicopters. Helicopters taxiing in and out of tower apron should ground taxi via holding point K. If skidded, via marked taxi routes from Taxiway A. Concrete Pad for the use of tower apron operators only.
c) There are three grass Helicopter Training Areas (Heli Northeast, Heli Northwest and Heli Southwest). An additional aiming point is provided at Heli South to the west of Taxiway J. Helicopter pilots operating in any of the Helicopter Training Areas must exercise extreme caution and remain clear of navigational aids, meteorological equipment and other obstacles as advised by ATC and remain outside of all runway strips.
d) Helicopter circuits operate parallel to and inside fixed wing circuits up to a maximum of 750 FT QFE, approaching and departing from the helicopter training areas as follows:

Fixed-wing	Rotary
Runway 09/27	Heli Northwest & Northeast
Runway 04/22	Heli Southwest & Northwest

i. Helicopters may also be instructed to depart or approach to Runways. Arrivals from the south will normally approach to Heli South.

ii. Heli Northwest and Heli Northeast are referred to generically as 'Heli North'. Approach Control will normally issue joining instructions to 'Heli North', Tower may then specify a particular training/landing area, subject to traffic and/or runway in use.

e) In order to reduce RT loading and avoid conflict between rotary and fixed-wing circuits, standardised phraseology and procedures are established for helicopter operations. The standardised phrases are assigned the following meanings:

i. **'Standard Helicopter Departure North'**: Lift and remain clear of fixed-wing active runways. After lifting, depart the ATZ promptly to the north not above height 750 FT QFE (subject to runway crossing clearance if required and remaining clear of fixed wing final approach and climb out). Please note that fixed wing and helicopter circuits may be active and opposite direction helicopter traffic may be joining. Any requirements to deviate from this standard departure must be advised to ATC.
ii. **'Standard Helicopter Departure South'**: Lift and remain clear of fixed-wing active runways. After lifting, depart the ATZ promptly to the south/southwest not above height 750 FT QFE (subject to runway crossing clearance if required and remaining clear of fixed wing final approach and climb out). Please note that fixed wing and helicopter circuits may be active and opposite direction helicopter traffic may be joining. Any requirements to deviate from this standard departure must be advised to ATC.
iii. **'Standard Helicopter Arrival North'**: Enter the ATZ from the north not above 750 FT QFE towards Heli North, remaining clear of fixed wing final approach and climb out tracks. Please note that fixed wing and helicopter circuits may be active and opposite direction helicopter traffic may be departing. Any requirements to deviate from this standard arrival must be advised to ATC.
iv. **'Standard Helicopter Arrival South'**: Enter the ATZ from the south/southwest not above 750 FT QFE towards Heli South or Heli Southwest (as directed), remaining clear of fixed wing final approach and climb outtracks. Please note that fixed wing and helicopter circuits may be active and opposite direction helicopter traffic may be departing. Any requirements to deviate from this standard arrival must be advised to ATC.
v. **'Standard Helicopter Circuits'**: Lift and remain clear of fixed wing active runways. Fly circuits not above height 750 FT QFE in same direction as notified fixed wing circuit. Circuits to depart from and arrive at the most upwind available heli-spot. When downwind helicopters shall report their position (e.g. "Helicopter-AA downwind"). Each time a helicopter lifts (including lifting each time into circuit) they shall report lifting (e.g. "Helicopter-AA lifting"). These broadcasts may not be acknowledged by ATC. Helicopters to maintain a listening watch on ADC frequency as traffic information and instructions may frequently be given. Helicopters to advise ATC when circuit detail is complete.

f) Larger helicopters and those types able to ground taxi may be integrated into the fixed-wing circuit.
g) Helicopters are required to comply with noise abatement procedures as detailed in AD 2.21.
h) Helicopters requiring AVGAS are required to alight at the circled 'H' west of the refuelling point. Ground handling or repositioning may be required for parking. At no time shall student pilots maintain control of a helicopter when in the vicinity of the fuel pumps. Control shall be taken by Instructors when routing to, from or in the vicinity of the fuel pumps.
i) Helicopters requiring to cross Runway 04/22 and 09/27 will be instructed to air taxi to Hold Y or X to await onward clearance. Cross at right angles to the centre-line.
j) Runway Strips and ILS critical areas marked by mown grass. Helicopters must not infringe runway strips during approach or manoeuvring without ATC clearance.
k) Jet A1 refuel normally takes place at ‘Spot 5’. Access to and egress from Pad 2 should be via the quadrant delineated by the white markers. Similarly, when fixed wing aircraft are at the AVGAS pumps or Hold A2, access and egress from Spot 5 should be via the mown quadrants only, which requires a positive Runway 09/27 entry and associated ATC clearances.

6 USE OF RUNWAYS

a) Crossing/multiple runway operations may take place. Pilots must follow ATC taxi instructions and vacate all runways as expeditiously as possible.

7 TRAINING

a) PPR and slot required for all instrument training flights and non-training.
b) An Instrument 'slot' booking system operates throughout AD hours. In order to avoid delay or curtailment, pilots should adhere to their pre-booked times. ATC are to be advised of any cancellation.
c) Engine failure after take-off training not permitted for SEP (single engine piston) on Runway 22 or Runway 27. EFATO exercises from Runways 04 and 09 must only commence after passing M5 motorway.

EGBJ AD 2.21 NOISE ABATEMENT PROCEDURES

Operators of all aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in the areas surrounding the aerodrome. A medium density residential conurbation is situated to the east, south and southwest of the aerodrome. Whenever possible, pilots should avoid overflight of these areas, other villages, hamlets and residential areas in the vicinity of the aerodrome. The following procedures may be departed from only to the extent necessary for avoiding immediate danger and for complying with ATC instructions.

a) Jet departures Runway 09 - Climb straight ahead through 1400 FT QNH before turning.
b) Departures Runway 22 - No left turns permitted until passing Chosen Hill (1.2 DME).
c) Departures Runway 27 - Non-jet aircraft (including circuit aircraft) are not to execute rights turns until passing west of the golf course (0.5 DME (27)) and should not route over the village of Down Hatherley. Jet aircraft are to climb straight ahead through 1400 FT QNH before executing any turn.
d) Departures Runway 04 - No left turns before Staverton Village (1.1 DME).

EGBJ AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) **IFR Arrivals**: PPR and slot required for all flights and in addition to the filing of a flight plan. Arriving flights are to establish communications with ATC at least 10 minutes prior to ETA at NDB(L) GST.
b) **VFR Arrivals**: Arriving VFR flights are to establish communications with ATC at least 5 minutes prior to ETA for overhead and at not less than 5 DME. Fixed wing aircraft will normally be instructed to make a Direct Join. Direct joins may be issued with a vertical restriction e.g. not below 1500 FT QFE, to facilitate circuit integration. Such a restriction does not absolve pilots from the requirement to remain in VMC at all times. Inbound flights should avoid Instrument Approach let-down areas and departure climb-outs at all times.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) To provide improved ATC handling of outbound flights via the ATS Route network from Gloucestershire Airport, the following Standard Departure Routes have been established in conjunction with relevant agencies. Full details published in Standard Route Document. Non-compliant FPL may be changed to the routes shown in the table below.

Departure to	Via	Route	Remarks
East	L607	BADIM - DCT - BUCFA - L607	Departures will normally be transferred to 'Bristol Radar' once deconflicted from known traffic.
South/Southwest	N92	BCN - DCT - EXMOR - N92	Departures will normally be transferred to 'Cardiff Radar' once deconflicted from known traffic.
West	L9	BCN - P4 - FELCA - L9	Departures will normally be transferred to 'Cardiff Radar' once deconflicted from known traffic.
Northwest	N864	KISWO - N864	Departures will normally be transferred to 'Western Radar' once deconflicted from known traffic.
North	P18	STAFA	Departures will normally be transferred to 'Western Radar' once deconflicted from known traffic.

b) Aircraft carrying out IR Training and Examination flights at Bristol, Cardiff and Exeter are required to route BADIM - DCT - ICCIN.
c) Upon first contact with ATC, pilots should acknowledge receipt of current ATIS code and state altimeter setting in use.
d) All IFR departures joining controlled airspace must request start up clearance.
e) After departure, all turns will conform with the direction of the circuit for the departure runway (promulgated on ATIS) unless approval from ATC has been granted.

3 CIRCUIT PROCEDURES

a) Fixed-wing circuit height 1000 FT QFE. Rotary circuit height not above 750 FT QFE. Runway 04 and 09 LH circuit, Runway 22 and 27 RH circuit. Direction may be varied by ATC.

4 INSTRUMENT APPROACHES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.
b) Undulation of the glide path will occur beyond 6 NM. Auto coupled approaches should not be carried out before 6 NM.

EGBJ AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBJ AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBJ-2-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGBJ-5-1
INSTRUMENT APPROACH CHART SRA RTR 0.5 NM/2 NM RWY 09 (CAT A,B,C) - ICAO
AD 2.EGBJ-8-1
INSTRUMENT APPROACH CHART RNP RWY 09 (CAT A,B,C) - ICAO
AD 2.EGBJ-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 09 (CAT A,B,C) - ICAO
AD 2.EGBJ-8-3
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 27 (CAT A,B,C) - ICAO

AD 2.EGBJ-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 27 (CAT A,B,C) - ICAO
AD 2.EGBJ-8-5
INSTRUMENT APPROACH CHART SRA RTR 0.5NM/2NM RWY 27 (CAT A,B,C) - ICAO
AD 2.EGBJ-8-6
INSTRUMENT APPROACH CHART RNP RWY 27 (CAT A,B,C) - ICAO
AD 2.EGBJ-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 27 (CAT A,B,C) - ICAO
AD 2.EGBJ-8-8
INSTRUMENT APPROACH CHART NDB(L) AERODROME (CAT A,B,C) - ICAO
AD 2.EGBJ-8-9
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09
AD 2.EGBJ-8-10
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 27
AD 2.EGBJ-8-11

EGBJ AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 515339N 0021002W

AD ELEV 101FT

GLOUCESTERSHIRE
EGBJ

COM		
ATIS	127.480	GLOUCESTER INFO
TWR	122.905	GLOUCESTER TOWER
	121.600	GLOUCESTER FIRE

LIGHTING	
APCH 09	HI 230 m basic C/L with 1 bar.
APCH 27	HI 312 m intermediate C/L with 2 bars.
THR 09/27	HI green W bars.
RWY 09/27	HI elev bi-d edge. End lights red.
TWY	TWY A green C/L. Blue edge on all south side runway intersections and hold A2/A3 area. Guard lights at A1, A2, A3, C1, D1, E2 & G1.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

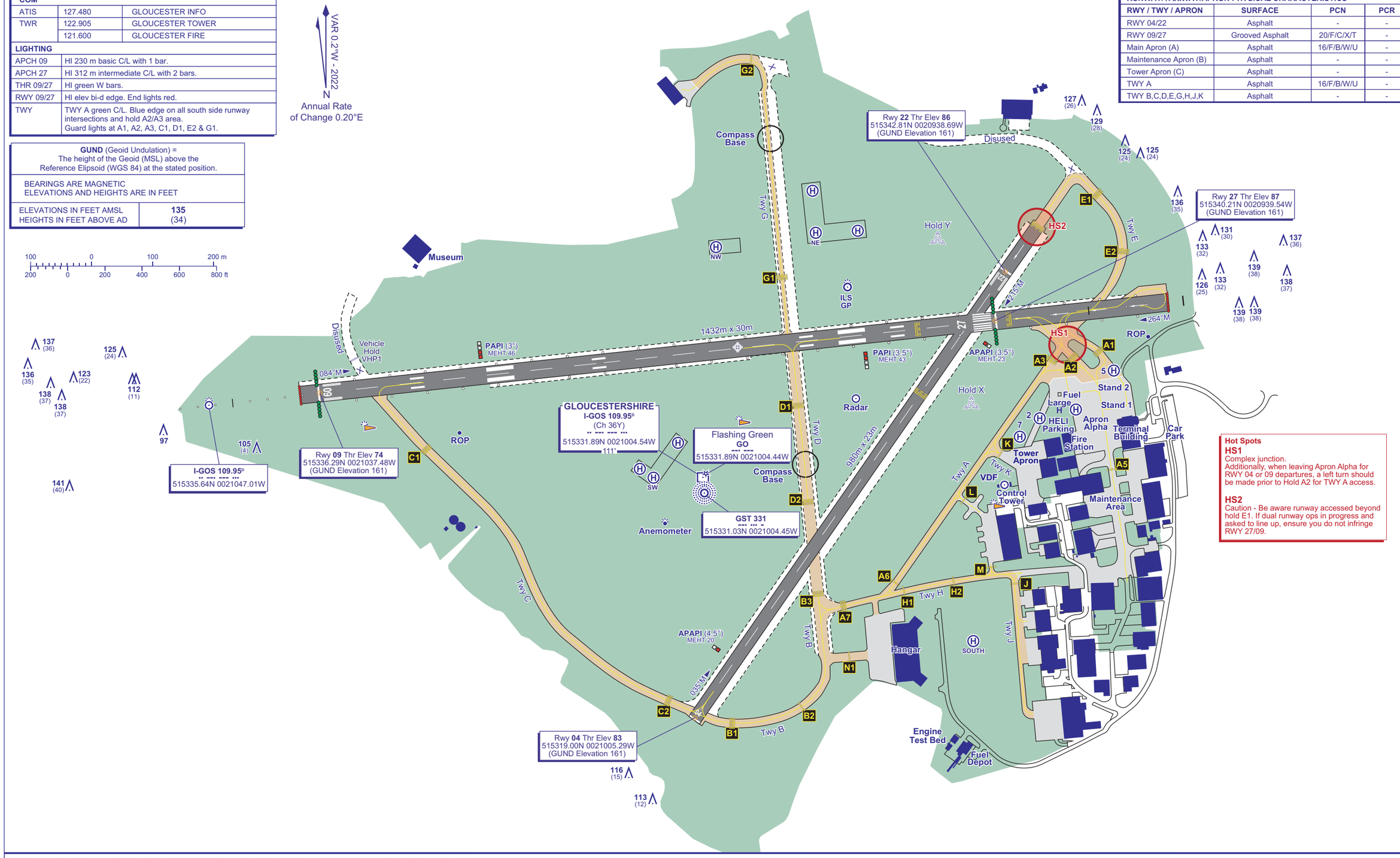
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	**135**
HEIGHTS IN FEET ABOVE AD	(34)

VAR 0.2°W - 2022
N
Annual Rate of Change 0.20°E

100 0 100 200 m
200 0 200 400 600 800 ft

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	**SURFACE**	**PCN**	**PCR**
RWY 04/22	Asphalt	-	-
RWY 09/27	Grooved Asphalt	20/F/C/X/T	-
Main Apron (A)	Asphalt	16/F/B/W/U	-
Maintenance Apron (B)	Asphalt	-	-
Tower Apron (C)	Asphalt	-	-
TWY A	Asphalt	16/F/B/W/U	-
TWY B,C,D,E,G,H,J,K	Asphalt	-	-



CHANGE (8/25): HOTSPOT 1 NOTE. TAXIWAY CENTRELINES ADDED. ON RUNWAY HOLDS MOVED. EDITORIAL.

AERO INFO DATE 29 MAY 25

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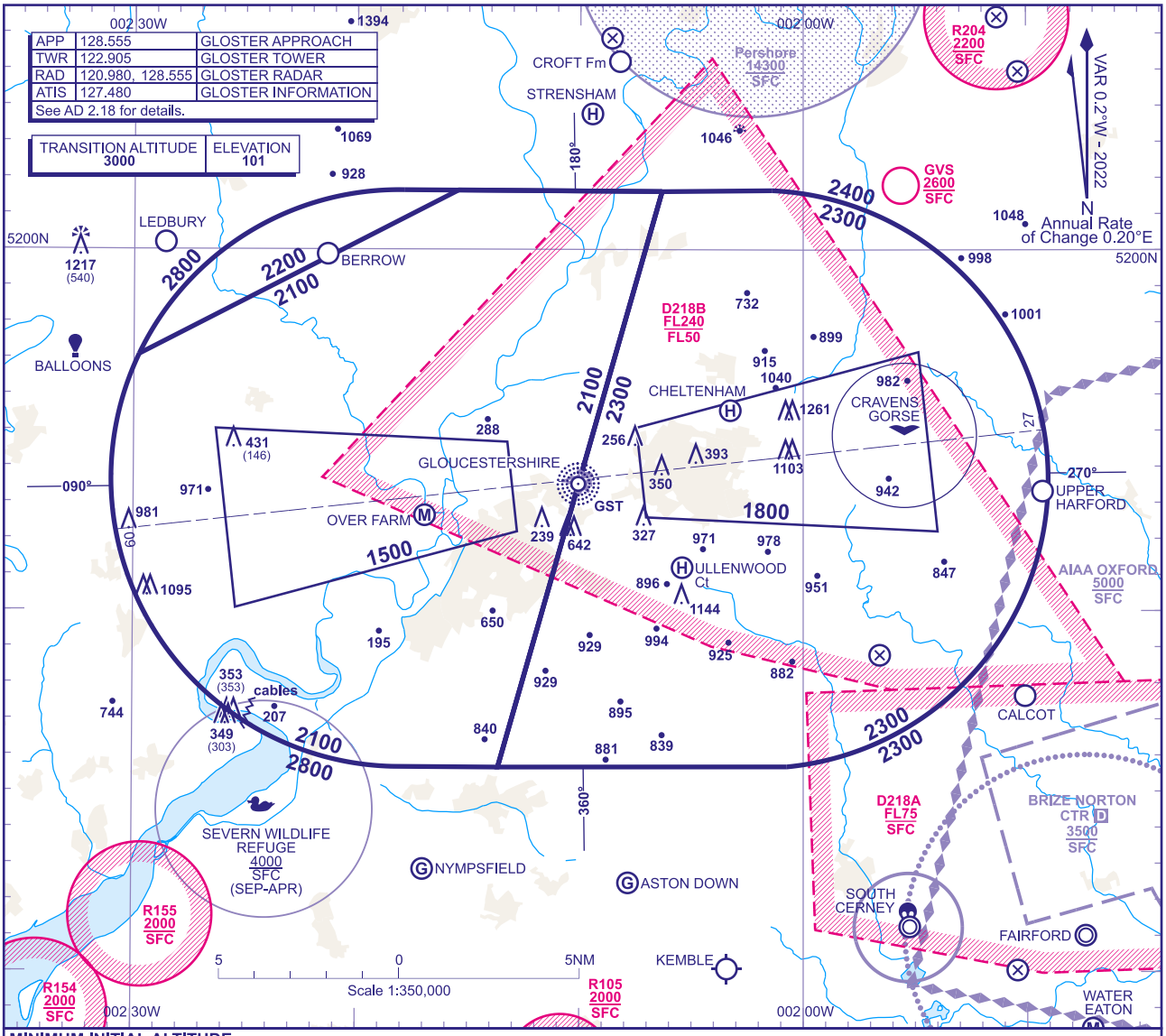
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL **1210**
ELEVATIONS IN FEET AGL (540)

GLOUCESTERSHIRE



APP	128.555	GLOSTER APPROACH
TWR	122.905	GLOSTER TOWER
RAD	120.980, 128.555	GLOSTER RADAR
ATIS	127.480	GLOSTER INFORMATION
See AD 2.18 for details.		

TRANSITION ALTITUDE	ELEVATION
3000	101

MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2100** in the sector defined by the lateral limits; 520137N 0020620W - 514540N 0021339W - 514540N 0021816W thence clockwise by an arc of a circle radius 8NM centred on 515340N 0021805W to 515705N 0022946W - 520139N 0021527W - 520137N 0020620W.
b) **2200** in the sector defined by the lateral limits; 520139N 0021527W - 515705N 0022946W thence clockwise by an arc of a circle radius 8NM centred on 515340N 0021805W to 520139N 0021754W - 520139N 0021527W.
c) **2300** in the sector defined by the lateral limits; 520137N 0020620W - 520138N 0020123W thence clockwise by an arc of a circle radius 8NM centred on 515339N 0020158W to 514541N 0020044W - 514540N 0021339W - 520137N 0020620W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2800**, or last assigned level if higher to **NDB(L) GST†**.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) GST†**.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of **NDB(L) GST**.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA Is cleared to Intercept the final approach track.**

CHANGE (5/24): D218A/B ADDED.

AERO INFO DATE 29 FEB 24

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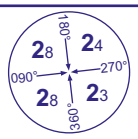
INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
SRA RTR 0.5NM/2NM RWY 09
(ACFT CAT A,B,C)

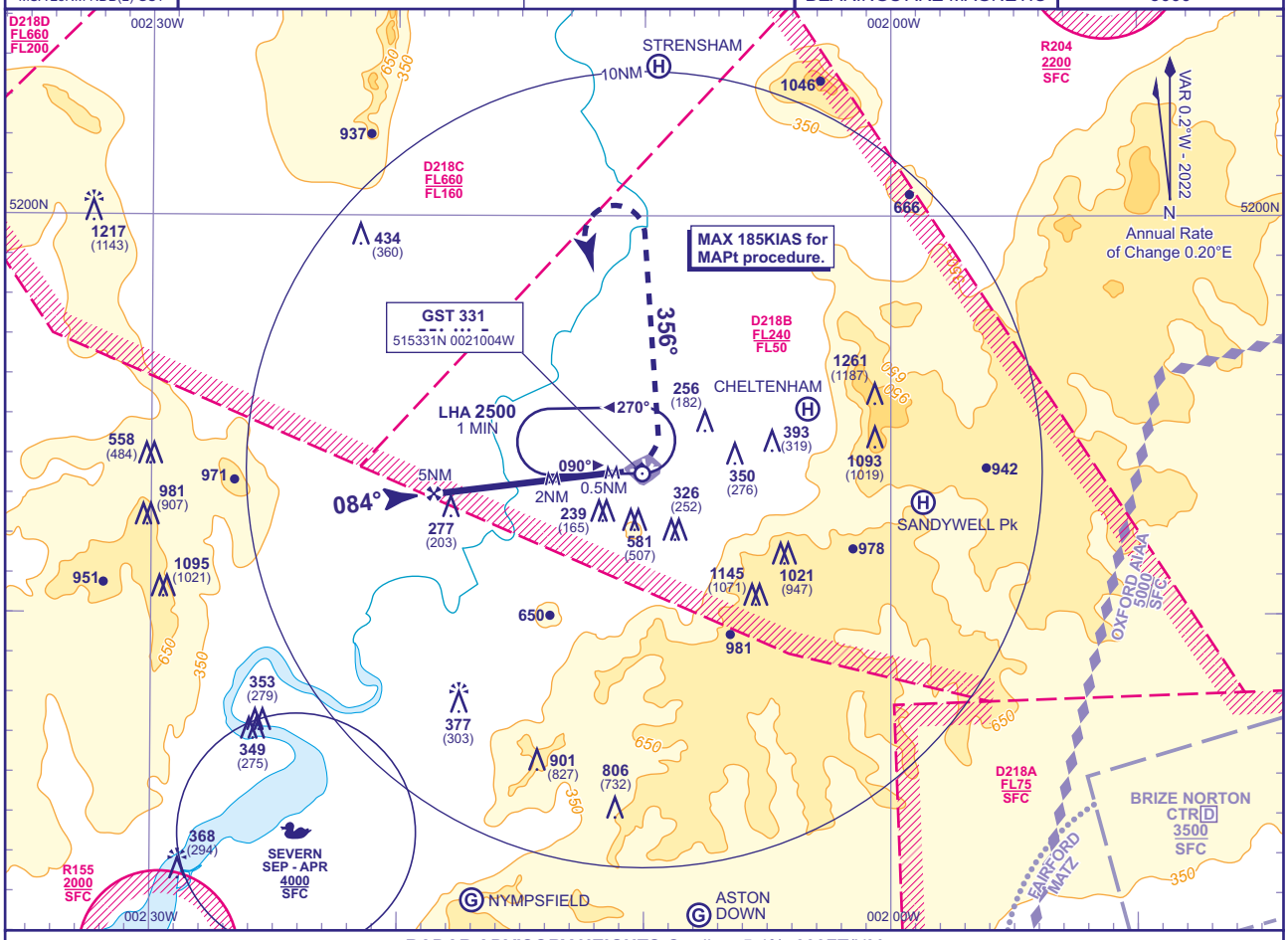


MSA 25NM NDB(L) GST

APP	128.555	GLOSTER APPROACH	
TWR	122.905	GLOSTER TOWER	
RAD	128.555, 120.980	GLOSTER RADAR	
ATIS	127.480	GLOSTER INFORMATION	

AD ELEVATION	101
THR ELEVATION	74
OBSTACLE ELEVATION	1261 AMSL (1187) (ABOVE THR)
BEARINGS ARE MAGNETIC	

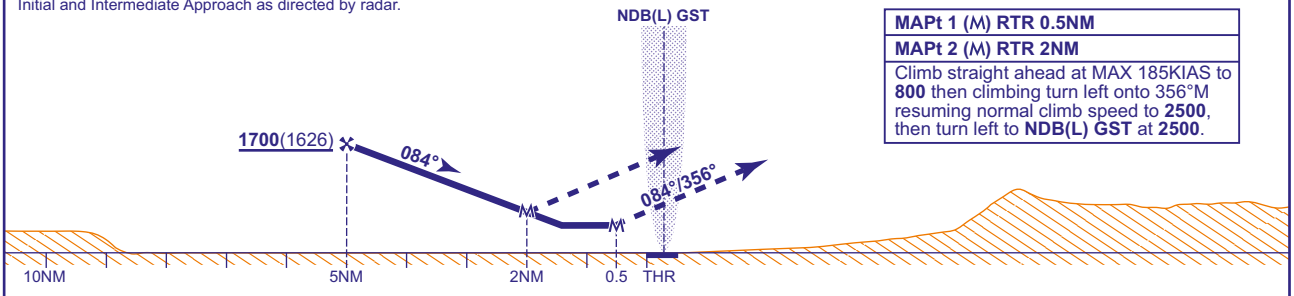
TRANSITION ALTITUDE 3000



RADAR ADVISORY HEIGHTS Gradient 5.4%, 330FT/NM

NM	5	4	3	2
ALT(HGT)	**1700**(1626)	**1370**(1296)	**1040**(966)	**710**(636)

Initial and Intermediate Approach as directed by radar.



MAPt 1 (M) RTR 0.5NM
MAPt 2 (M) RTR 2NM
Climb straight ahead at MAX 185KIAS to **800** then climbing turn left onto 356°M resuming normal climb speed to **2500**, then turn left to **NDB(L) GST** at **2500**.

Aircraft Category		A	B	C
OCA (OCH)	SRA RTR 0.5NM	**520**(446)	**520**(446)	**520**(446)
	SRA RTR 2NM	**710**(636)	**710**(636)	**710**(636)
VM(C)OCA (OCH AAL)	Total Area	**1000**(899)	**1000**(899)	**1500**(1399)
	North of RWYs 04/22 and 09/27	**830**(729)	**830**(729)	

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	430

NOTES
1 Aircraft will normally be required to hold not lower than **4000** or the equivalent FL.
2 No missed approach turns permitted before MAPt.
3 Radar Advisory Ranges are referenced to RWY 09 touchdown point.

CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 22 FEB 24

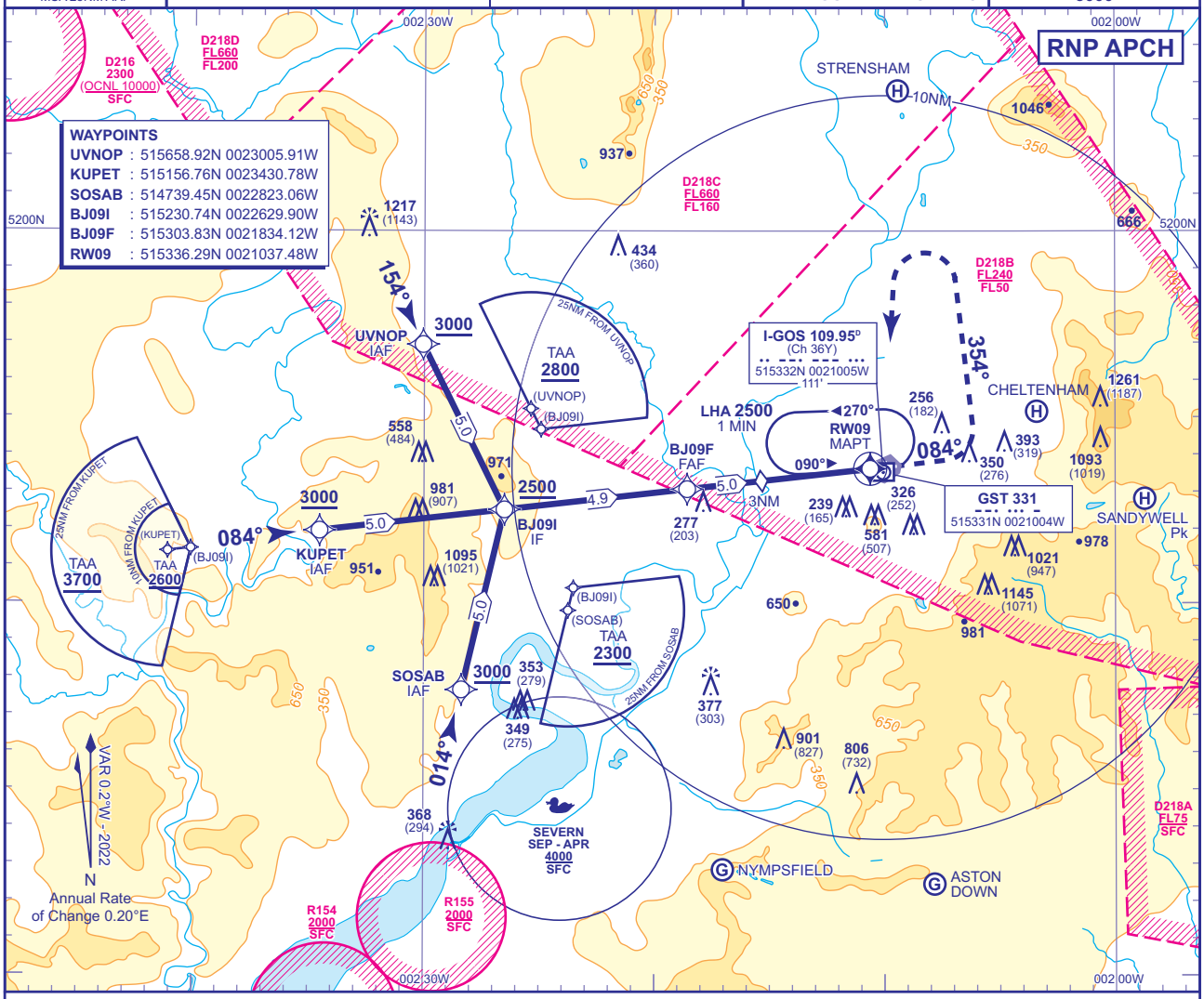
AD 2-EGBJ-8-1

INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
RNP
RWY 09
(ACFT CAT A,B,C)

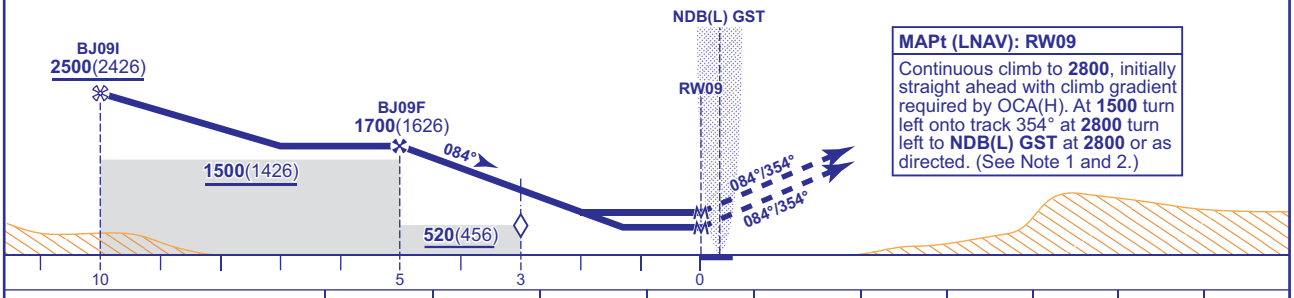
2₈ MSA 25NM ARP	APP	128.555	GLOSTER APPROACH	AD ELEVATION	101
	TWR	122.905	GLOSTER TOWER	THR ELEVATION	74
	RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION 1261 AMSL (1187) (ABOVE THR)	
	ATIS	127.480	GLOSTER INFORMATION		
				BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

NM to RW09	5	4	3 (SDF)	2
ALT(HGT)	1700(1626)	1400(1326)	1080(1006)	760(686)



MAPt (LNAV): RW09

Continuous climb to **2800**, initially straight ahead with climb gradient required by OCA(H). At **1500** turn left onto track 354° at **2800** turn left to **NDB(L) GST** at **2800** or as directed. (See Note 1 and 2.)

Aircraft Category		A	B	C
Procedure LNAV OCA(OCH)	At 3.2% MAP	480(406)	480(406)	480(406)
	At 2.5% MAP	570(496)	570(496)	570(496)
VM(C)OCA (OCH AAL)	Total Area	1000(899)	1000(899)	1500(1399)
	North of RWY 04/22 09/27	830(729)	830(729)	

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES
1 Missed Approach Procedure not available without **NDB(L) GST**.
2 Missed Approach Procedure shall be converted to a conventional Missed Approach upon reaching **1500**.
3 No turns prior to MAPt.

CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 22 FEB 24

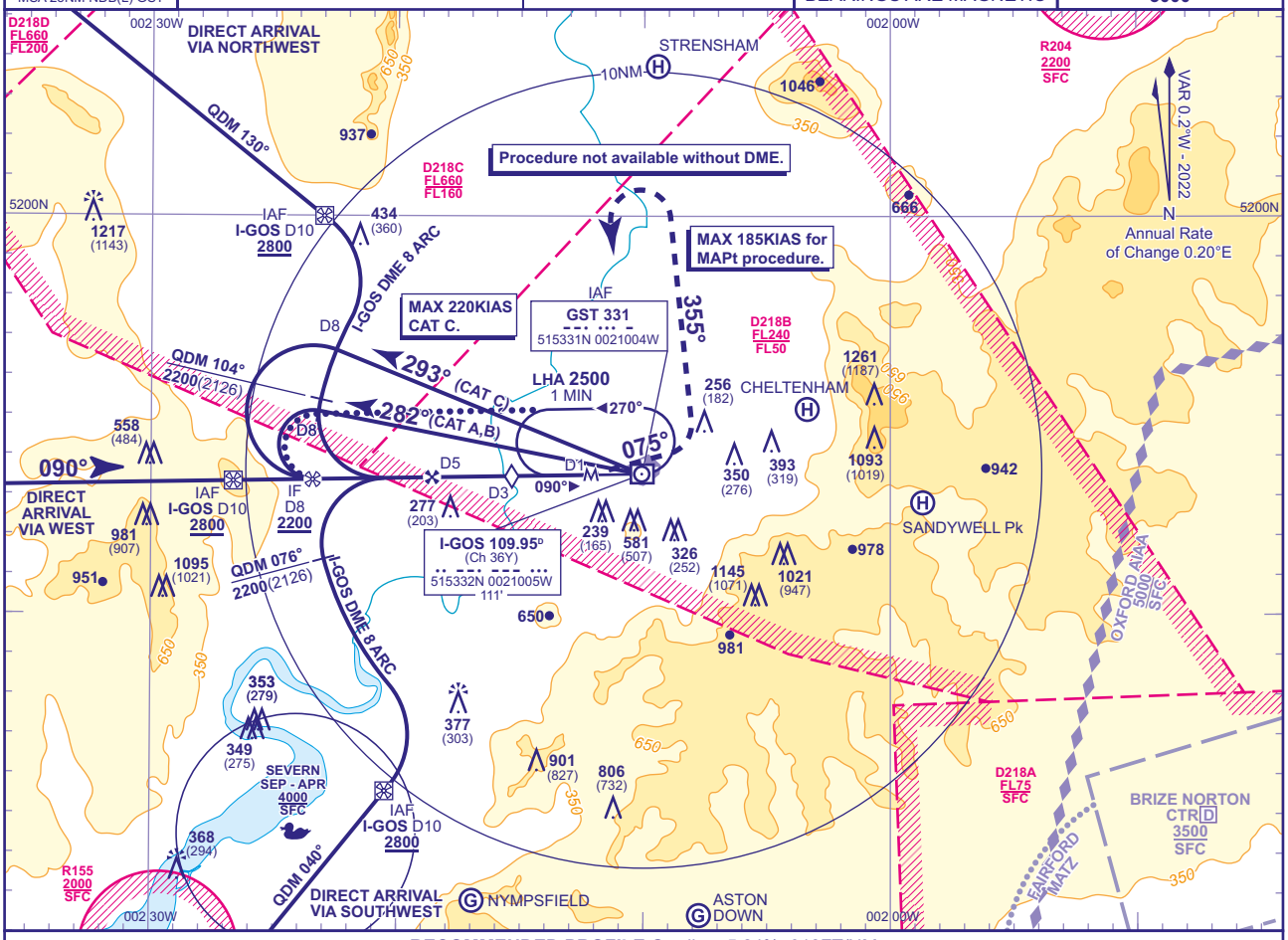
INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
NDB(L)/DME
RWY 09
(ACFT CAT A,B,C)



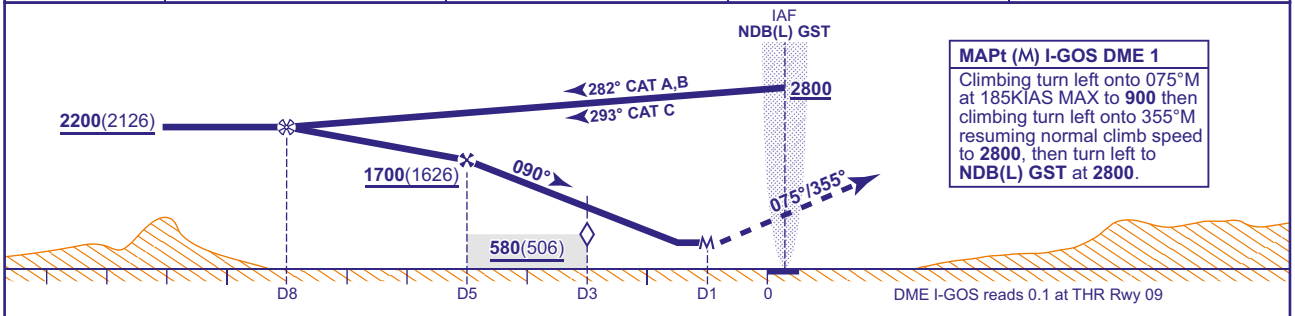
MSA 25NM NDB(L) GST

APP	128.555	GLOSTER APPROACH	AD ELEVATION	101	
TWR	122.905	GLOSTER TOWER	THR ELEVATION	74	
RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION	1261 AMSL (1187) (ABOVE THR)	
ATIS	127.480	GLOSTER INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-GOS	5	4	3 (SDF)	2
ALT(HGT)	**1700**(1626)	**1380**(1306)	**1060**(986)	**740**(666)



MAPt (M) I-GOS DME 1
Climbing turn left onto 075°M at 185KIAS MAX to **900** then climbing turn left onto 355°M resuming normal climb speed to **2800**, then turn left to **NDB(L) GST** at **2800**.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**540**(466)	**540**(466)	**540**(466)
VM(C)OCA (OCH AAL)	Total Area	**1000**(899)	**1000**(899)	**1500**(1399)
	North of RWYs 04/22 and 09/27	**830**(729)	**830**(729)	

Rate of descent	G/S KT	160	140	120	100
	FT/MIN	850	740	640	530

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend the outbound leg of NDB(L) GST holding pattern descending to **2200**. At I-GOS DME 8 turn left to intercept FAT. When established continue as for Main Procedure.

NOTES **1** FAT offset 6.2° from RWY C/L. FAT intercepts C/L nominally 0.8NM before THR.
2 Aircraft will normally be required to hold not lower then **4000** or the equivalent FL.

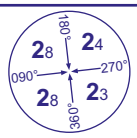
CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 22 FEB 24

AD 2-EGBJ-8-3

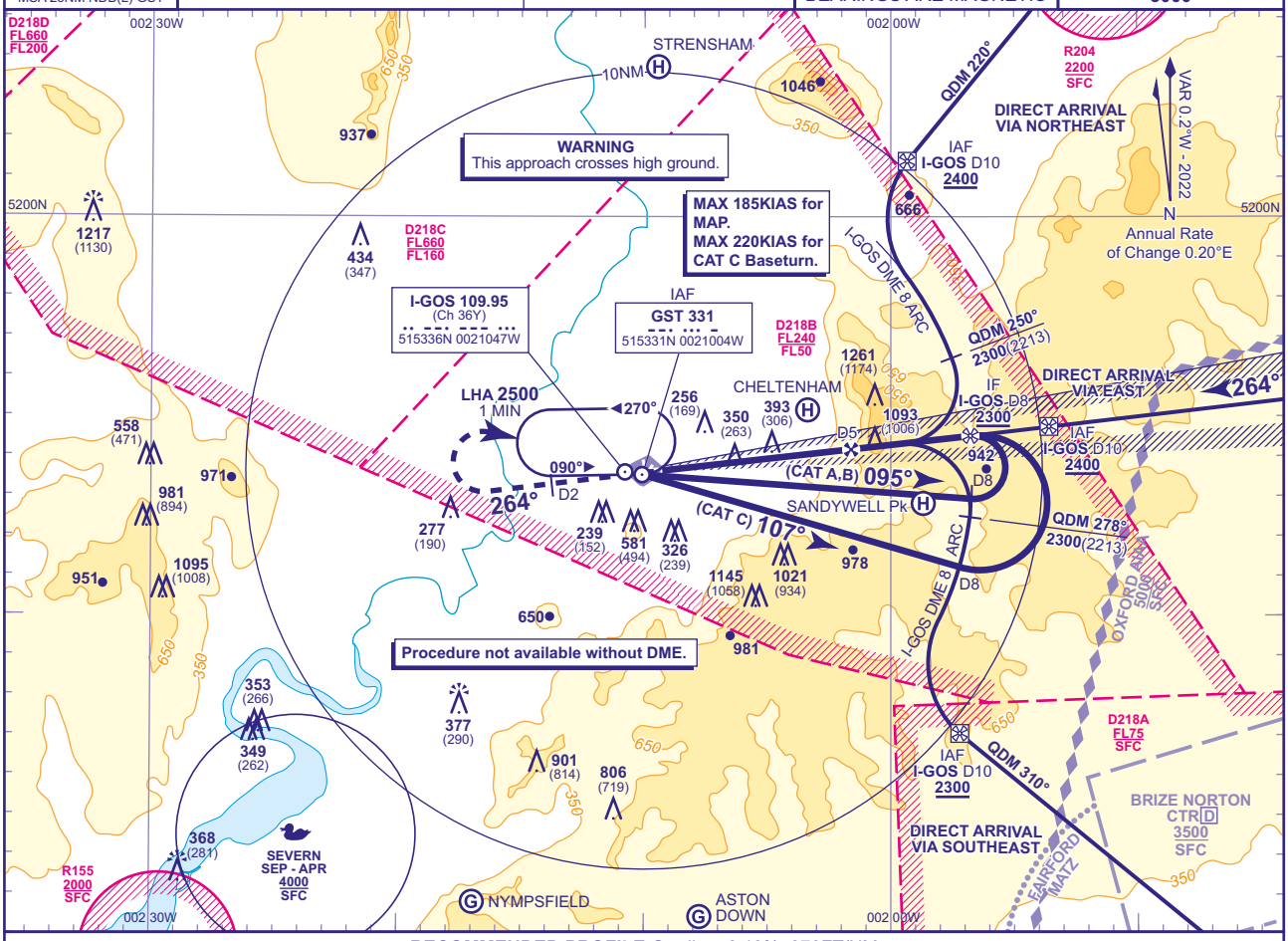
INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
ILS/DME/NDB(L)
RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) GST

APP	128.555	GLOSTER APPROACH	AD ELEVATION	**101**	TRANSITION ALTITUDE **3000**
TWR	122.905	GLOSTER TOWER	THR ELEVATION	**87**	
RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION **1261 AMSL** (1174) (ABOVE THR)		
ATIS	127.480	GLOSTER INFORMATION	BEARINGS ARE MAGNETIC		

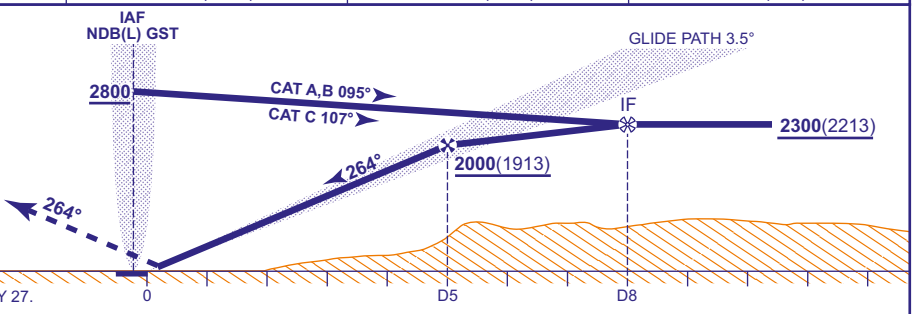


RECOMMENDED PROFILE Gradient 6.13%, 373FT/NM

DME I-GOS	4.5	4	3	2
ALT(HGT)	**1800**(1713)	**1630**(1543)	**1250**(1163)	**880**(793)

RDH 40

Climb on track 264°M to **1000** or D2.0 I-GOS outbound whichever is later, turn right to NDB(L) GST to hold at **2800**.



Aircraft Category		A	B	C
OCA (OCH)	**CAT I**	**272**(185)	**281**(194)	**290**(203)
VM(C)OCA (OCH AAL)	**Total Area**	**1000**(899)	**1000**(899)	**1500**(1399)
	North of RWYs 04/22 and 09/27	**830**(729)	**830**(729)	

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	750	620	500

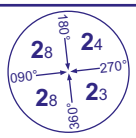
NOTES **1** NDB(L) GST occasionally subject to erroneous indications within 5NM of Droitwich on approach to RWY 27.
2 Aircraft will normally be required to hold not lower than **4000** or the equivalent FL.

CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 22 FEB 24 AD 2-EGBJ-8-4

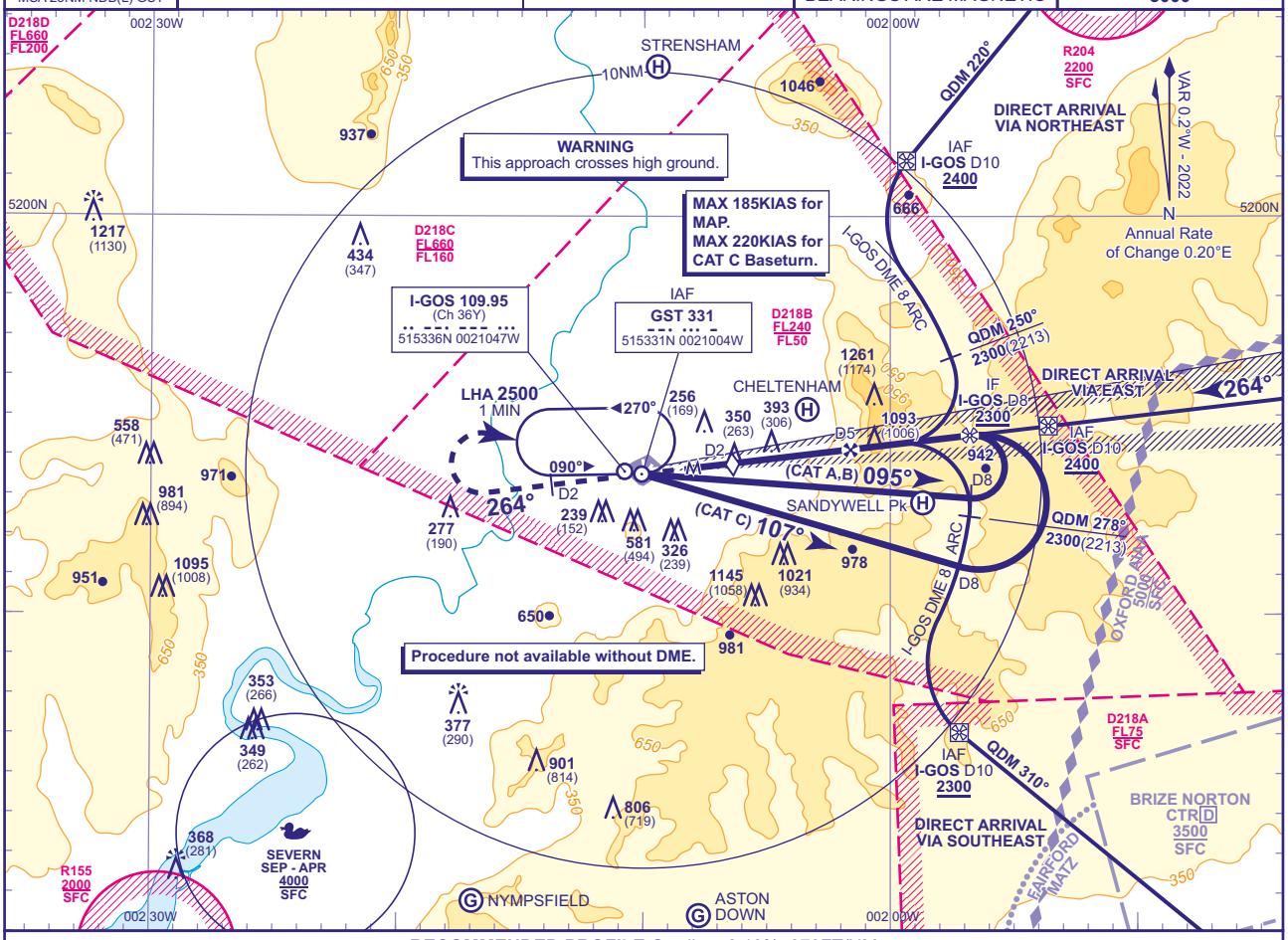
INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
LOC/DME/NDB(L)
RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) GST

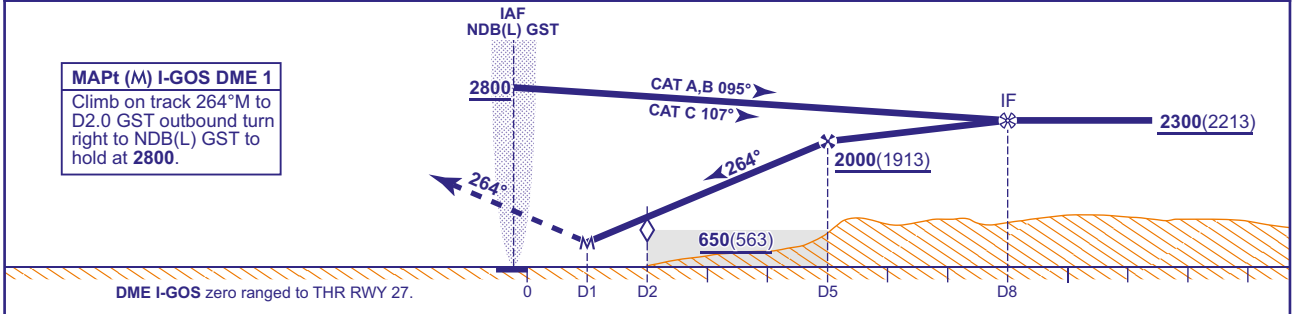
APP	128.555	GLOSTER APPROACH	AD ELEVATION	101	
TWR	122.905	GLOSTER TOWER	THR ELEVATION	87	
RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION	1261 AMSL (1174) (ABOVE THR)	
ATIS	127.480	GLOSTER INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 6.13%, 373FT/NM

DME I-GOS	4.5	4	3	2 **(SDF)**
ALT(HGT)	**1800**(1713)	**1630**(1543)	**1250**(1163)	**880**(793)

MAPt (M) I-GOS DME 1
Climb on track 264°M to D2.0 GST outbound turn right to NDB(L) GST to hold at **2800**.



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**600**(513)	**600**(513)	**600**(513)
VM(C)OCA (OCH AAL)	Total Area	**1000**(899)	**1000**(899)	**1500**(1399)
	North of RWYs 04/22 and 09/27	**830**(729)	**830**(729)	

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	750	620	500

NOTES 1 NDB(L) GST occasionally subject to erroneous indications within 5NM of Droitwich on approach to RWY 27.
2 Aircraft will normally be required to hold not lower than **4000** or the equivalent FL.

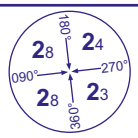
CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 22 FEB 24

I

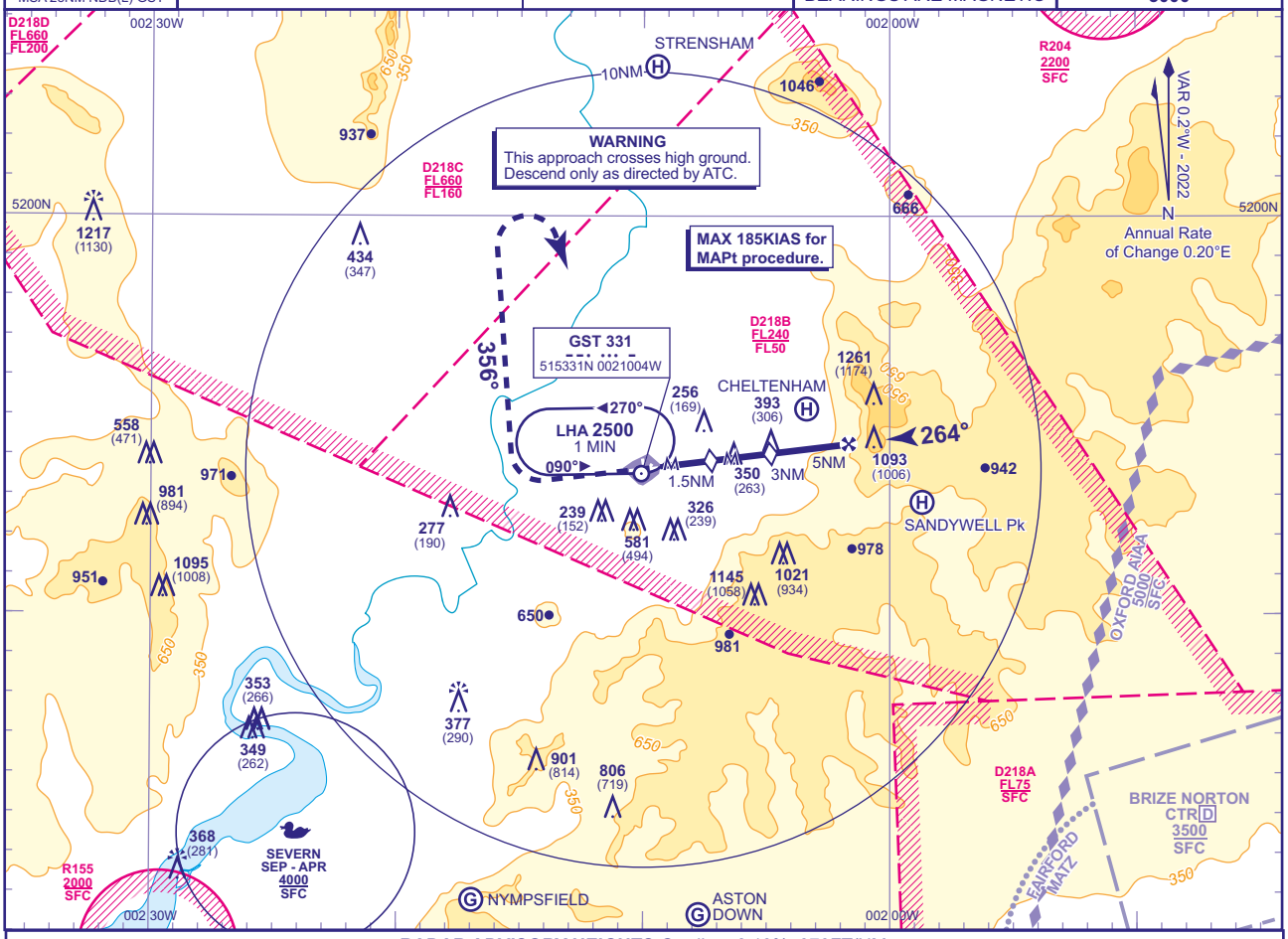
INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
SRA RTR 0.5NM/2NM RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) GST

APP	128.555	GLOSTER APPROACH	AD ELEVATION	**101**	
TWR	122.905	GLOSTER TOWER	THR ELEVATION	**87**	
RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION **1261 AMSL** (1174) (ABOVE THR)		
ATIS	127.480	GLOSTER INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **3000**



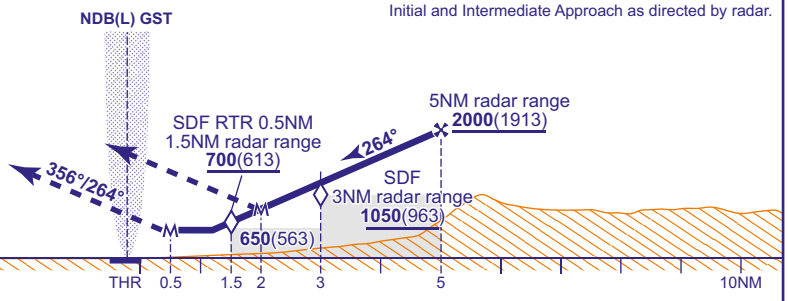
RADAR ADVISORY HEIGHTS Gradient 6.13%, 373FT/NM				
NM	5.0	4.0	3.0 **(SDF)**	2.0
ALT(HGT)	**2000**(1913)	**1630**(1543)	**1250**(1163)	**880**(793)

MAPt 1 (M) RTR 0.5NM

MAPt 2 (M) RTR 2NM

Climb on straight ahead to **1300**, then climbing turn right onto 356°M climbing to **2500**, then turn right to **NDB(L) GST** at **2500.**

Initial and Intermediate Approach as directed by radar.



Aircraft Category		A	B	C
OCA (OCH)	SRA RTR 0.5NM	**600**(513)	**600**(513)	**600**(513)
	SRA RTR 2NM	**880**(793)	**880**(793)	**880**(793)
VM(C)OCA (OCH AAL)	Total Area	**1000**(899)	**1000**(899)	**1500**(1399)
	North of RWYs 04/22 and 09/27	**830**(729)	**830**(729)	

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	750	620	500

NOTES 1 Aircraft will normally be required to hold not lower than **4000** or the equivalent FL.
2 No missed approach turns permitted before MAPt.
3 Radar Advisory Ranges are referenced to RWY THR.

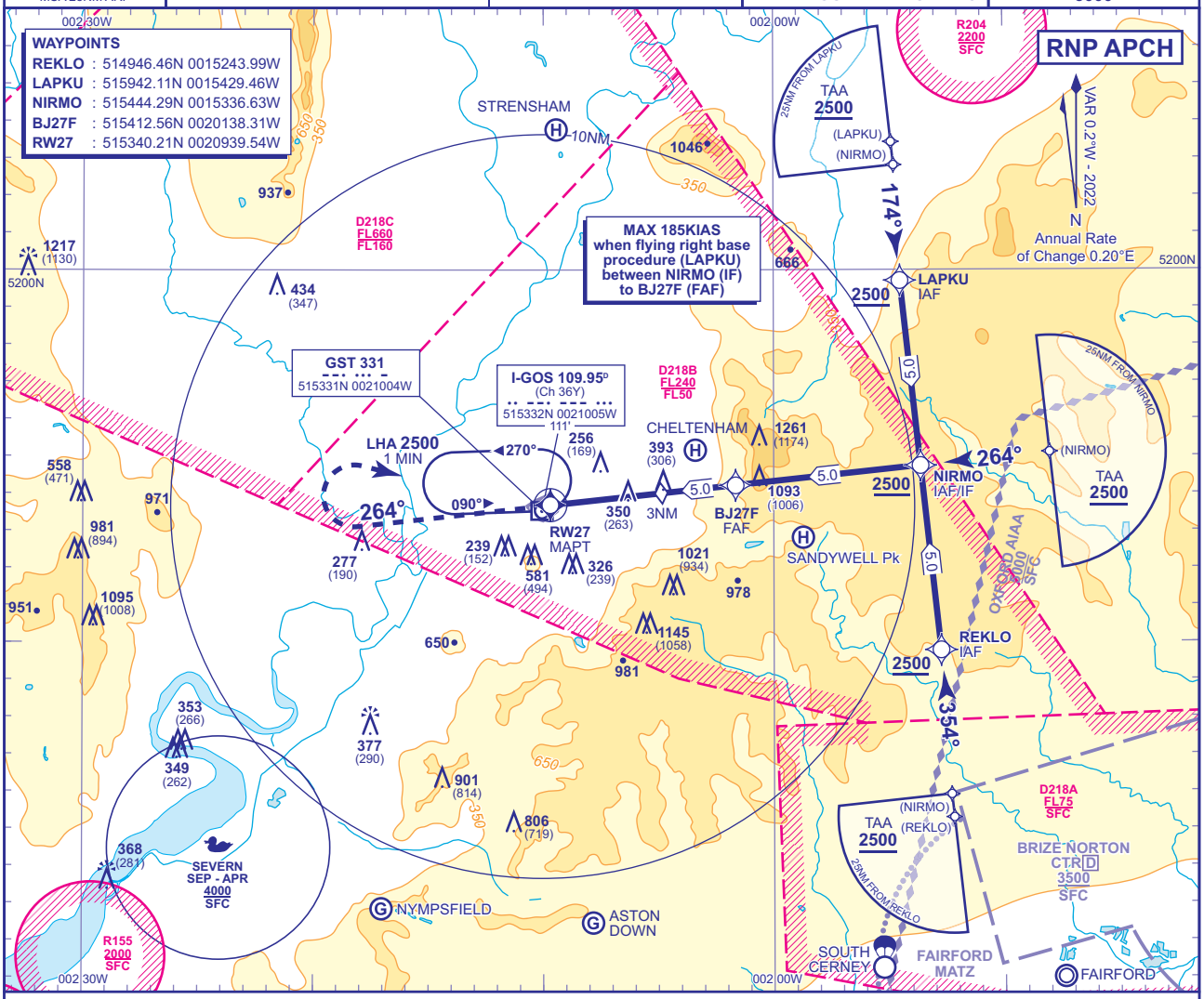
CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 22 FEB 24

INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
RNP
RWY 27
(ACFT CAT A,B,C)

28 MSA 25NM ARP	APP	128.555	GLOSTER APPROACH	AD ELEVATION	101
	TWR	122.905	GLOSTER TOWER	THR ELEVATION	87
	RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION 1261 AMSL (1174) (ABOVE THR)	
	ATIS	127.480	GLOSTER INFORMATION	BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 3000

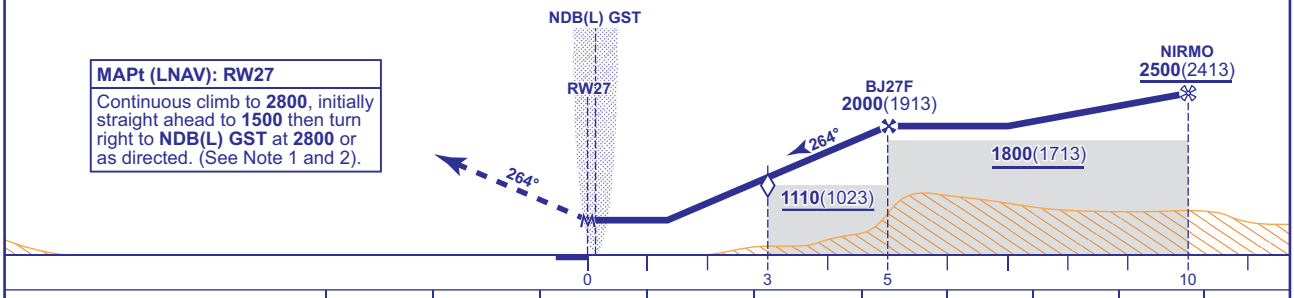


RECOMMENDED PROFILE Gradient 6.13%, 373FT/NM

NM to RW27	5	4	3 (SDF)	2	1
ALT(HGT)	**2000**(1913)	**1620**(1533)	**1250**(1163)	**880**(793)	**510**(423)

MAPt (LNAV): RW27

Continuous climb to **2800**, initially straight ahead to **1500** then turn right to **NDB(L) GST** at **2800** or as directed. (See Note 1 and 2).



Aircraft Category		A	B	C
Procedure OCA(OCH)	LNAV	**600**(513)	**600**(513)	**600**(513)
VM(C)OCA (OCH AAL)	Total Area	**1000**(899)	**1000**(899)	**1500**(1399)
	North of RWY 04/22 and 09/27	**830**(729)	**830**(729)	

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	750	620	500

NOTES 1 Missed Approach Procedure not available without **NDB(L) GST**.
2 Missed Approach Procedure shall be converted to a conventional Missed Approach upon reaching **1500**.
3 No Missed Approach turns permitted prior to MAPt.

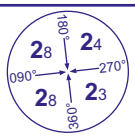
CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 06 MAR 24

AD 2-EGBJ-8-7

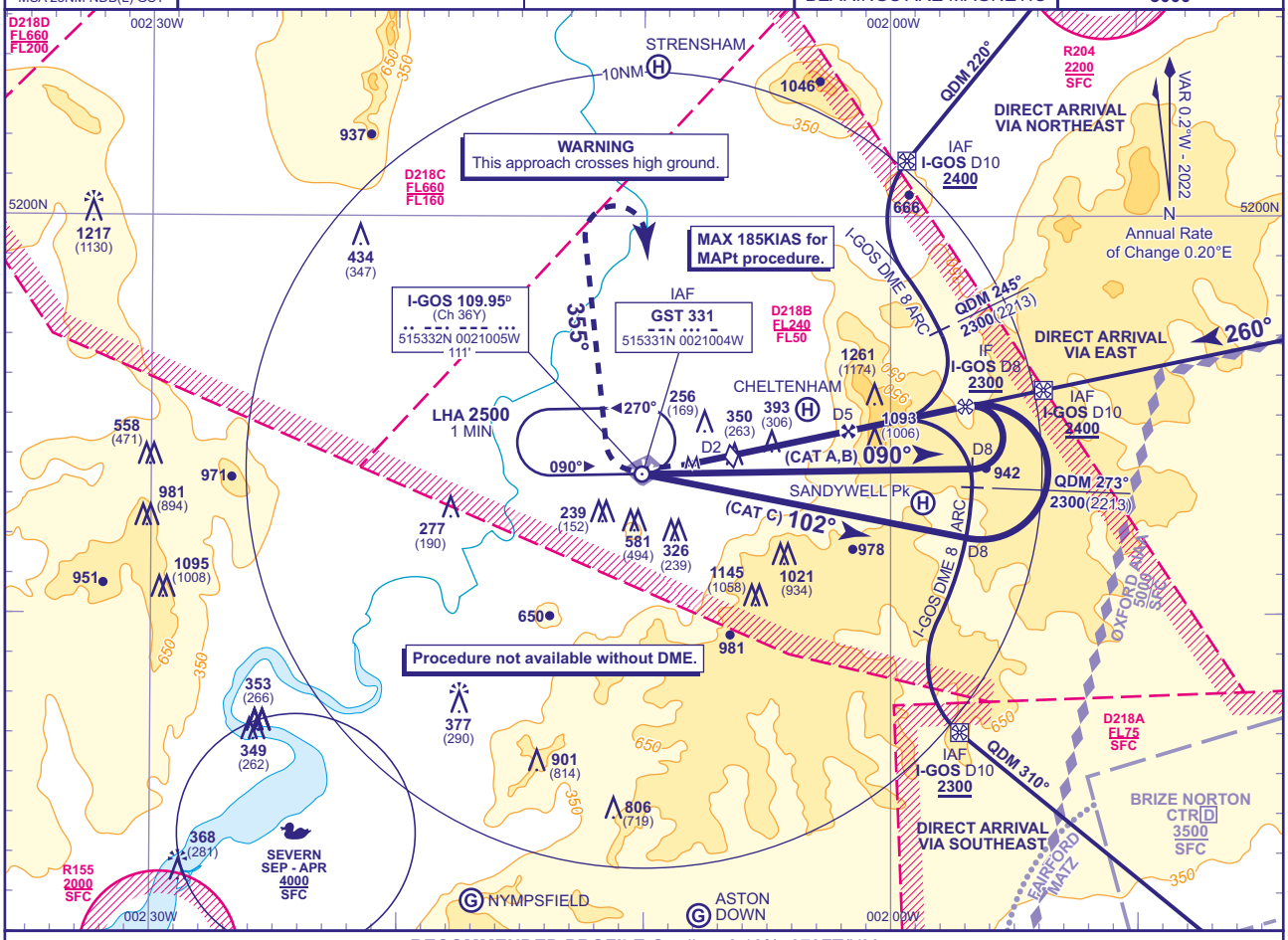
INSTRUMENT APPROACH CHART - ICAO

GLOUCESTERSHIRE
NDB(L)/DME
RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) GST

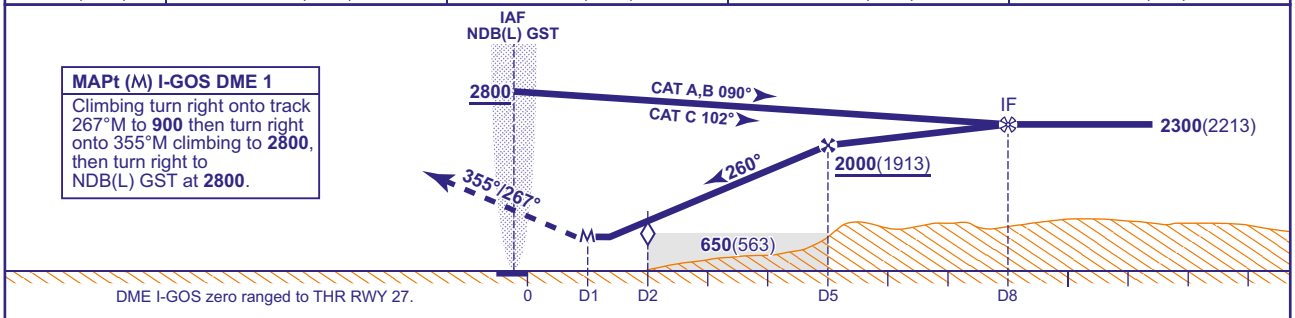
APP	128.555	GLOSTER APPROACH	AD ELEVATION	**101**	TRANSITION ALTITUDE **3000**
TWR	122.905	GLOSTER TOWER	THR ELEVATION	**87**	
RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION **1261 AMSL** (1174) (ABOVE THR)		
ATIS	127.480	GLOSTER INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 6.13%, 373FT/NM

DME I-GOS	5	4	3	2 **(SDF)**
ALT(HGT)	**2000**(1913)	**1630**(1543)	**1250**(1163)	**880**(793)

MAPt (M) I-GOS DME 1
Climbing turn right onto track 267°M to **900** then turn right onto 355°M climbing to **2800**, then turn right to NDB(L) GST at **2800**.



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**600**(513)	**600**(513)	**600**(513)
VM(C)OCA (OCH AAL)	**Total Area**	**1000**(899)	**1000**(899)	**1500**(1399)
	North of RWYs 04/22 and 09/27	**830**(729)	**830**(729)	

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	750	620	500

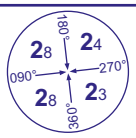
NOTES
1 FAT offset 4.8° from RWY C/L. FAT intercepts C/L nominally 1.2NM before THR.
2 NDB(L) GST occasionally subject to erroneous indications within 5NM of Droitwich on approach to RWY 27.
3 Aircraft will normally be required to hold not lower than **4000** or the equivalent FL.

CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 06 MAR 24 AD 2-EGBJ-8-8

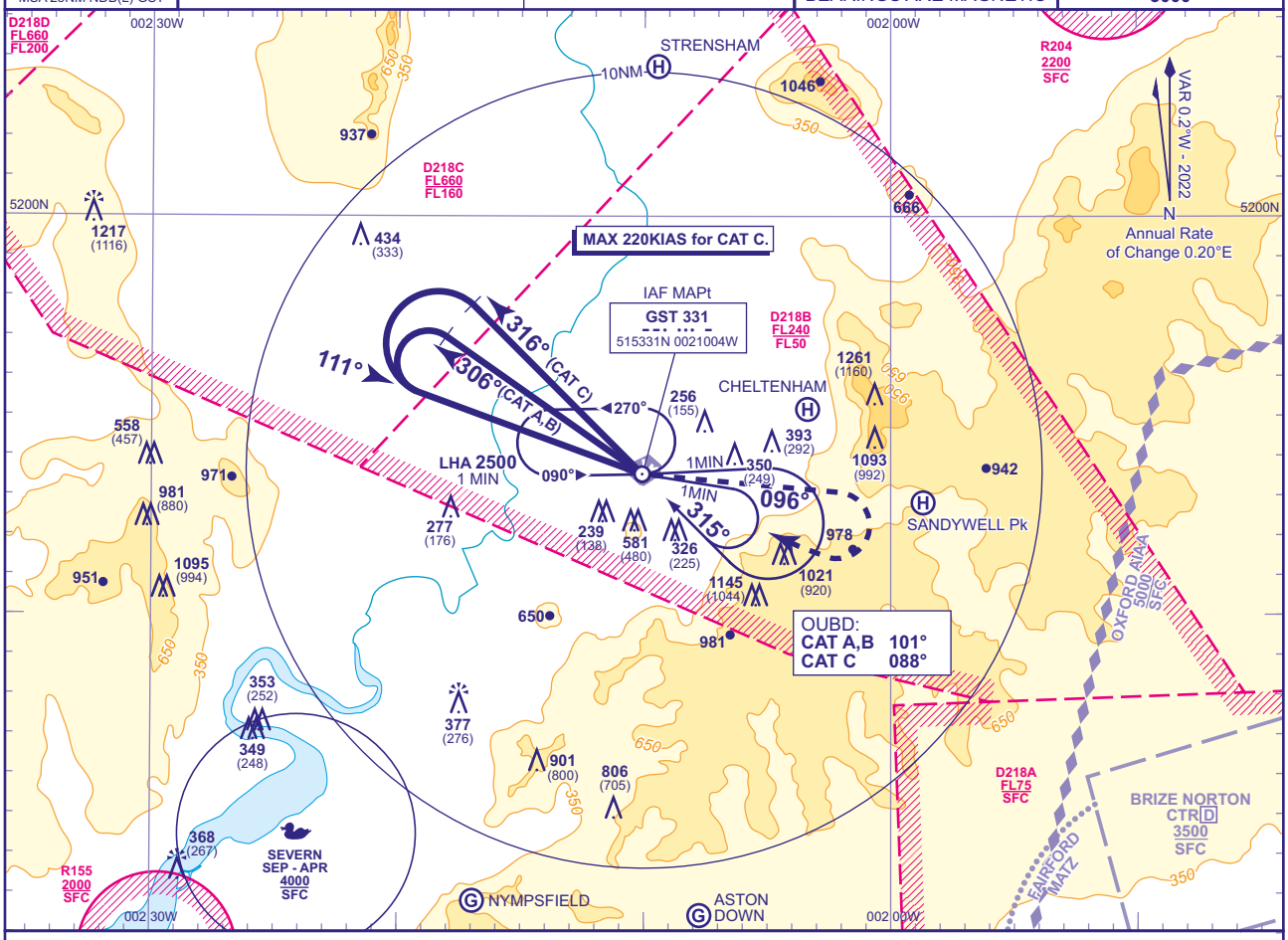
INSTRUMENT APPROACH CHART - ICAO

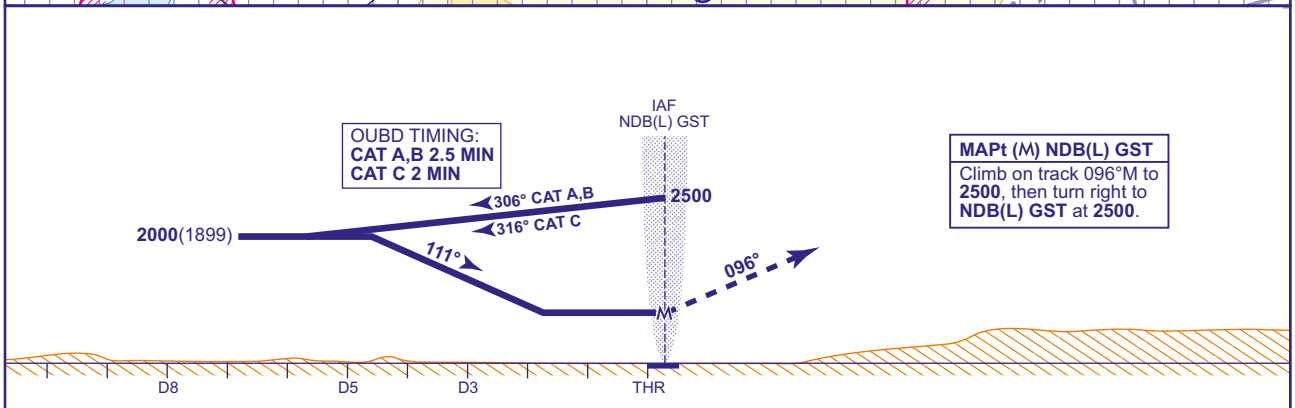
GLOUCESTERSHIRE NDB(L) AERODROME
(ACFT CAT A,B,C)



MSA 25NM NDB(L) GST

APP	128.555	GLOSTER APPROACH	AD ELEVATION	101	
TWR	122.905	GLOSTER TOWER			
RAD	128.555, 120.980	GLOSTER RADAR	OBSTACLE ELEVATION	1261 AMSL (1160) (ABOVE THR)	
ATIS	127.480	GLOSTER INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000





Aircraft Category		A	B	C
VM(C)OCA (OCH AAL)	Total Area	1000(899)	1000(899)	1500(1399)
	North of RWYs 04/22 and 09/27	830(729)	830(729)	

NOTES
1. To commence procedure from hold, overhead NDB(L) GST fly baseturn manoeuvre on: CAT A,B 101°; CAT C 088° for 1MIN then turn right back to the facility on 315°M **not below 2500.**
2. Aircraft will normally be required to hold not lower than **4000** or the equivalent FL.
3. Aerodrome approach to VM(C) criteria.

CHANGE (5/24): FAIRFORD DANGER AREAS ADDED.

AERO INFO DATE 22 FEB 24

AD 2-EGBJ-8-9

Instrument Approach Procedure Coding Tables

Gloucestershire RNP RWY 09 - Instrument Approach Procedure via UVNOP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09L	001	IF	UVNOP	-	-	-	3000	-	515658.92N 0023005.91W	IAF
R09L	002	TF	BJ09I	-	154° (153.760°)	LEFT	2500	-	515230.74N 0022629.90W	IF / 10NM
R09L	003	TF	BJ09F	-	084° (083.757°)	-	1700	-	515303.83N 0021834.12W	FAF / 5NM
R09L	004	TF	RW09	Y	084° (083.757°)	-	-	-	515336.29N 0021037.48W	MAPt
R09L	005	CA	-	-	084° (083.757°)	-	1500	-	-	At 1500 revert to conventional navigation

Gloucestershire RNP RWY 09 - Instrument Approach Procedure via KUPET

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09C	001	IF	KUPET	-	-	-	3000	-	515156.76N 0023430.78W	IAF
R09C	002	TF	BJ09I	-	084° (083.757°)	-	2500	-	515230.74N 0022629.90W	IF / 10NM
R09C	003	TF	BJ09F	-	084° (083.757°)	-	1700	-	515303.83N 0021834.12W	FAF / 5NM
R09C	004	TF	RW09	Y	084° (083.757°)	-	-	-	515336.29N 0021037.48W	MAPt
R09C	005	CA	-	-	084° (083.757°)	-	1500	-	-	At 1500 revert to conventional navigation

Gloucestershire RNP RWY 09 - Instrument Approach Procedure via SOSAB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	SOSAB	-	-	-	3000	-	514739.45N 0022823.06W	IAF
R09R	002	TF	BJ09I	-	014° (013.760°)	RIGHT	2500	-	515230.74N 0022629.90W	IF / 10NM
R09R	003	TF	BJ09F	-	084° (083.757°)	-	1700	-	515303.83N 0021834.12W	FAF / 5NM
R09R	004	TF	RW09	Y	084° (083.757°)	-	-	-	515336.29N 0021037.48W	MAPt
R09R	005	CA	-	-	084° (083.757°)	-	1500	-	-	At 1500 revert to conventional navigation

CHANGE (7/21): MAG VAR. MAG TRACKS. PAGE RENUMBERED.
AERO INFO DATE 29 APR 21

Instrument Approach Procedure Coding Tables

Gloucestershire RNP RWY 27 - Instrument Approach Procedure via REKLO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	REKLO	-	-	-	2500	-	514946.46N 0015243.99W	IAF
R27L	002	TF	NIRMO	-	354° (353.760°)	LEFT	2500	-	515444.29N 0015336.63W	IF / 10NM
R27L	003	TF	BJ27F	-	264° (263.757°)	-	2000	-	515412.56N 0020138.31W	FAF / 5NM
R27L	004	TF	RW27	Y	264° (263.757°)	-	-	-	515340.21N 0020939.54W	MAPt
R27L	005	CA	-	-	264° (263.757°)	-	1500	-	-	At 1500 revert to conventional navigation

Gloucestershire RNP RWY 27 - Instrument Approach Procedure via NIRMO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27C	002	IF	NIRMO	-	-	-	2500	-	515444.29N 0015336.63W	IAF / IF
R27C	003	TF	BJ27F	-	264° (263.757)	-	2000	-	515412.56N 0020138.31W	FAF / 5NM
R27C	004	TF	RW27	Y	264° (263.757°)	-	-	-	515340.21N 0020939.54W	MAPt
R27C	005	CA	-	-	264° (263.757°)	-	1500	-	-	At 1500 revert to conventional navigation

Gloucestershire RNP RWY 27 - Instrument Approach Procedure via LAPKU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27R	001	IF	LAPKU	-	-	-	2500	-	515942.11N 0015429.46W	IAF
R27R	002	TF	NIRMO	-	174° (173.760°)	RIGHT	2500	-	515444.29N 0015336.63W	IF / 10NM
R27R	003	TF	BJ27F	-	264° (263.757°)	-	2000	-	515412.56N 0020138.31W	FAF / 5NM
R27R	004	TF	RW27	Y	264° (263.757°)	-	-	-	515340.21N 0020939.54W	MAPt
R27R	005	CA	-	-	264° (263.757°)	-	1500	-	-	At 1500 revert to conventional navigation

CHANGE (7/21): MAG VAR. MAG TRACKS. PAGE RENUMBERED.
AERO INFO DATE 29 APR 21

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EGJB — GUERNSEY

EGJB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGJB — GUERNSEY

EGJB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 492606N Long: 0023610W Midpoint of Runway 09/27.
2	Direction and distance from city	2.5 NM WSW of St Peter Port.
3	Elevation / Reference temperature / Mean Low Temperature	336 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	161 FT
5	Magnetic Variation / Annual Change	0.11°W (2022) / 0.19°E
6	AD Administration Address Telephone E-mail address	GUERNSEY PORTS Guernsey Airport, Forest, Guernsey, GY8 0DS, Channel Islands. 01481-227766 (General) airport@gov.gg
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGJB AD 2.3 OPERATIONAL HOURS

1	AD Administration	0630-2100 (0530-2000).
2	Customs and immigration	As AD hours.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	H24
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	0615-2000 (0515-1900). Outside these hours by arrangement.
9	Handling	As AD hours.
10	Security	As AD hours.
11	De-icing	As AD hours.
12	Remarks	AD use subject to restriction – refer to AD 2.20 item 1, item 2 and to AD 2.21

EGJB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Bulk and ULD handling. Cargo security screening. Guernsey Freight Services Limited Tel: 01481-237424.
2	Fuel and oil types	AVTUR JET A-1 (anti-icing additive not included)., AVGAS 100LL 100, W100, W80.
3	Fuelling facilities/capacity	AVTUR 1200 lts per minute. AVGAS 450 lts per minute. De-fuelling facility not available.
4	De-icing facilities	Type 1 and 2 fluids available (subject to serviceability). De-icing is available as part of a cold pool. For membership and costs please contact Aurigny Air Services, Tel: 01481-822889.
5	Hangar space for visiting aircraft	Limited. By prior arrangement only with Aiglle Flight Support Ltd, ASG Flight Support Ltd or Aurigny Air Services Ltd.
6	Repair facilities for visiting aircraft	Aurigny Air Services Ltd, Tel: 01481-268870. Aircraft Servicing Guernsey Ltd, Tel: 01481-265750.

7	Remarks	Handling agents are: Aiglle Flight Support Tel: 01481-239544; Fax: 01481-235008; e-mail: ops@aiglle.com (General and Executive Aviation) Maximum size of aircraft handled - Bombardier Global 7500 (GL7T). Guernsey Freight Services Tel: 01481-237424; (Commercial Freight). ASG Flight Support Ltd Tel: 01481-263965; e-mail: flightsupport@flyasg.co.uk (General and Executive Aviation) Maximum size of aircraft handled - Bombardier Global 7500 (GL7T). Aurigny Air Services Tel: 01481-822889; e-mail: ops@aurigny.com (Commercial Passenger) Maximum size of aircraft handled - Boeing 737-800/Airbus A320.

EGJB AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity of the aerodrome.
2	Restaurants	Café, Bar and Conference facilities within terminal building.
3	Transportation	Public bus services and taxis.
4	Medical facilities	Limited first aid treatment available via RFFS.
5	Bank and Post Office	Post box situated outside of terminal building. Cash point in Terminal.
6	Tourist Office	Information desk in Terminal.
7	Remarks	

EGJB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 7 available on request with a minimum of 24 hours notice to Guernsey Airport. Telephone: 01481-227766. It is a condition of the aerodrome licence that the appropriate level of fire cover should be provided to all aircraft using the aerodrome.
2	Rescue equipment	4x Major Foam Tenders. 3 x 6x6 vehicles and 1 4x4. Spreaders, Cutters, Rescue Ram and Ripper gun, power saws, forcing bags, sealing bag.
3	Capability for removal of disabled aircraft	Aircraft lifting capability is available through mobile crane with a maximum of 50 tonne lifting capability. Contact Guernsey Airport: 01481-227766.
4	Remarks	Two locally based aero engineering facilities to assist in light aircraft recovery.

EGJB AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical. Chemical de-icing.
2	Clearance priorities	Runway 09/27, Taxiway Alpha, Delta, Charlie and Apron areas.
3	Remarks	Latest information from: 01481-227766. Guernsey Airport's policy on clearing a contaminated runway will always be to clear back to a blacktop. Braking action readings will not be provided. Global reporting format (GRF) reports will be provided.

EGJB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete PCN 36/R/C/W/T to 50/R/C/W/T
2	Taxiway width, surface and strength	Taxiway A: 18 M Surface: Asphalt PCN 36/F/C/W/T

		Taxiway D: 18 M Surface: Asphalt PCN 36/F/C/W/T
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	492600.31N 0023527.70W Position: Ground
5	INS checkpoints	See Aircraft Parking/Docking Chart
6	Remarks	

EGJB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1-8 (Main Apron) and Stands 21-23 (West Apron) are nose-in push back stands with stand designator signs and a yellow centre-line. All have a painted ground stop line. Stands 2A and 3A are positioned behind Stands 2 and 3 and delineated by a stand demarcation line. Use of these stands are restricted to short turnarounds only. Self-manoeuvring markings are provided on Stands 9-10 and 12-15 (East Apron). Marshalling guidance for nose-in push back stands is provided by approved handling agents. Aircraft will not enter a stand until the marshaller is present, in position and ready to receive the aircraft. Aircraft will then follow the marshallers instructions. Into-wind markings are provided on Stands 2-8 and are in a east/west configuration. Use of these stands are restricted to ATR72 sized aircraft or smaller and manoeuvres are strictly managed via marshallers.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: Runway designation, runway threshold, runway centre-line, fixed distance, touchdown zone, runway edge. Runway light(s): Runway designation, runway threshold, runway centre-line, fixed distance, touchdown zone, runway edge. Taxiway marking aid(s): Taxiway centre-line and line holding positions. Reflective markers on taxiway edge. Taxiway light(s): Taxiway entrance to runway indicated by alternate green/amber centre-line lights. Taxiway centre-line and line holding positions. Blue elevated taxiway-edge lights.
3	Stop bars and runway guard lights (if any)	Enhanced LED stop bars at runway holding points A1, B1, C, D1.LED stop bars at A2, A3, A4, B2, D2 and D3.Guernsey Airport operates a 'ring of red' policy, and runway holding point stop bars are in permanent operation.
4	Other runway protection measures	
5	Remarks	WDI: 492608.91N 0023633.79W (LGTD), 492610.04N 0023551.78W (LGTD), adjacent to Runways 09 and 27 Glidepath aerials. All obstacles marked and lit.

EGJB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGJB1320) 09/APPROACH	BUILDING	492608.95N 0023653.38W	304 FT	11 FT	No	
(EGJB1238) 27/TAKE-OFF	TREE	492607.33N 0023703.97W	313 FT	40 FT	No	
(EGJB1206) 27/TAKE-OFF	TREE	492605.90N 0023706.56W	313 FT	38 FT	No	
(EGJB1652) 09/TAKE-OFF	ROAD	492604.33N 0023520.95W	341 FT	13 FT	No	
(EGJB1609) 27/APPROACH	SIGN	492603.42N 0023532.10W	339 FT	11 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGJB1274) 27/TAKE-OFF	TREE	492602.04N 0023702.06W	313 FT	28 FT	No	
(EGJB1277) 27/TAKE-OFF	TREE	492601.81N 0023701.33W	313 FT	27 FT	No	
(EGJB1281) 27/TAKE-OFF	TREE	492601.78N 0023701.04W	313 FT	27 FT	No	
(EGJB1261) 09/APPROACH 27/ TAKE-OFF	ANEMOMETER	492601.65N 0023702.78W	323 FT	38 FT	No	
(EGJB1290) 27/TAKE-OFF	TREE	492601.54N 0023700.25W	311 FT	23 FT	No	
(EGJB1268) 27/TAKE-OFF	POLE	492601.46N 0023702.32W	315 FT	29 FT	Yes Red	
(EGJB1266) 09/APPROACH	TREE	492600.95N 0023702.60W	321 FT	33 FT	No	
(EGJB1296) 09/APPROACH	BUILDING	492600.76N 0023659.43W	317 FT	26 FT	No	
(EGJB1303) 09/APPROACH	TREE	492600.75N 0023658.51W	316 FT	23 FT	No	
(EGJB1301) 09/APPROACH	BUILDING	492600.65N 0023658.83W	317 FT	25 FT	No	
(EGJB1304) 09/APPROACH	TREE	492559.88N 0023658.50W	324 FT	30 FT	No	
(EGJB1221) 09/APPROACH	TREE	492559.81N 0023705.52W	343 FT	54 FT	No	
(EGJB1255) 09/APPROACH	TREE	492559.81N 0023703.04W	329 FT	39 FT	No	
(EGJB1223) 09/APPROACH	TREE	492559.48N 0023705.26W	349 FT	58 FT	No	
(EGJB1249) 09/APPROACH	TREE	492559.38N 0023703.26W	335 FT	43 FT	No	
(EGJB1243) 09/APPROACH	TREE	492558.76N 0023703.65W	340 FT	46 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGJB1709)	MAST	492728.03N 0023445.00W	439 FT	186 FT	Yes Red	

EGJB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	JERSEY MET
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	JERSEY MET 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone. Jersey for consultation. H24.
6	Flight documentation Language(s) used	TAFs, METAR, Flight forecast, Upper winds. English.
7	Charts and other information available for briefing or consultation	ASXX, FSXX, F214/215. Channel Islands Area Forecast.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	GUERNSEY
10	Additional information (limitation of service, etc.)	Current METAR and TAF available during AD hours via recorded message on Tel: 01481-238957 and from www.gov.je/weather/aviation.

EGJB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
09	087.56°	1583 x 45 M	RWY surface: Asphalt, Grooved PCN 36/F/C/W/T	492604.66N 0023649.33W 161.4 FT	THR 302.1 FT TDZ 317.7 FT	RWY 09 1:140 Up RWY 27 -1:140 Down
27	267.57°	1583 x 45 M	RWY surface: Asphalt, Grooved PCN 36/F/C/W/T	492606.67N 0023536.78W 161.4 FT	THR 336.2 FT TDZ 336.2 FT	RWY 09 1:140 Up RWY 27 -1:140 Down

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	258 x 150 M		200 x 90 M 240 x 90 M			RWY 09 Strip Dimensions: 1583 x 280 M
	216 x 150 M		240 x 90 M 200 x 90 M			RWY 27 Threshold displaced by 120 M. Strip Dimensions: 1703 x 280 M

EGJB AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1463 M	1721 M	1463 M	1463 M	
27	1583 M	1799 M	1583 M	1463 M	
09	955 M	1213 M	955 M		Take-off from Taxiway C intersection
27	1102 M	1318 M	1102 M		Take-off from Taxiway B intersection.

EGJB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Coded centre-line with five crossbars. Single approach centre-line lights have been omitted from the system at 570 M and 540 M from the Runway 09 threshold. 803 M Light intensity high	Green With green wingbars	PAPI Left/3° 43 FT 282 M		Colour coded centre-line 15 M spacing LED Light intensity high	Elev bi-directional with LI omni-directional component 1583 M 60 M spacing LED White Light intensity high	Red Light intensity high		
27	Coded centre-line with five cross bars. Single approach centre-line light omitted from the system at 270 M from the Runway 27 threshold. 895 M Light intensity high	Green With green wingbars	PAPI Left/3° 47 FT 321 M		Colour coded centre-line 15 M spacing LED Light intensity high	Elev bi-directional with LI omni-directional component 1583 M 60 M spacing LED White Light intensity high	Red Light intensity high		

EGJB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 492608.80N 0023634.90W (unlit).
3	TWY edge and centre line lighting	CL: Green taxiway LED lighting 15 M apart, 7.5 M on curves. EDGE: Blue LED lighting on corners, LED runway guard lights.
4	Secondary power supply/switch-over time	Yes - switch over time is less than 1 second.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGJB AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGJB AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CHANNEL ISLANDS CTR NORTH 500000N 0020000W - 494951N 0030000W - 500000N 0030000W following the line of latitude to - 500000N 0020000W	Upper limit: FL80 Lower limit: SFC	D	JERSEY CONTROL English	5000 FT		
CHANNEL ISLANDS CTR SOUTH 500000N 0020000W - 493000N 0020000W - 490200N 0014000W following the line of latitude to - 490200N 0030000W - 494951N 0030000W - 500000N 0020000W	Upper limit: FL80 Lower limit: SFC	D	JERSEY CONTROL English	5000 FT		
GUERNSEY ATZ A circle, 2 NM radius, centred at 492606N 0023610W Is the airspace extending from the surface to a height of 2000 FT above the level of the aerodrome and within the area bounded by a circle centred on the notified mid-point of the longest runway (09/27) 492605.75N 0023610.08W and having a radius of 2 NM in accordance with the Air Navigation (Bailiwick of Guernsey) Law 2012.	Upper limit: 2000 FT AGL Lower limit: SFC	D	GUERNSEY APPROACH English	5000 FT		The Guernsey Aerodrome Traffic Zone is embedded in the Channel Islands CTR.

EGJB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	GUERNSEY APPROACH	121.500 Emergency frequency.			0615-2100 (0515-2000).	ATZ hours 0600-2100 (0500-2000). VDF 492613.13N 0023552.62W On AD.
		128.655 DOC 25 NM/ 10,000 FT.			0615-2100 (0515-2000).	
TWR	GUERNSEY GROUND	121.805 DOC 3 NM/GND. As directed by ATC.			As directed by ATC.	Extensions by arrangement for scheduled services only. If GMC is in use, an associated message will be broadcast on ATIS 'GUERNSEY INFORMATION' 109.400 MHz.
	GUERNSEY TOWER	119.955 DOC 25 NM/ 10,000 FT.			0615-2100 (0515-2000).	
RADAR	GUERNSEY RADAR	124.505 DOC 25 NM/ 10,000 FT. Serves Runway 09/27.			0615-2100 (0515-2000).	VDF 492613.13N 0023552.62W On AD.
ATIS	GUERNSEY INFORMATION	109.400 Broadcast on Guernsey VOR.			0615-2100 (0515-2000).	
OTHER	GUERNSEY FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
Air Traffic Control Service	JERSEY CONTROL	120.450 To be used in the event of failure of communications on 125.205 MHz.			0545-2100 (0445-2030); and by arrangement.	DOC 4900N00100W - 4834N00205W - 4920N00400W - 5015N00400W - 5015N00145W - 4935N00100W / 25,000 FT.
		125.205 CTR and Airway Channel.			0545-2100 (0445-2030); and by arrangement.	

EGJB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.69°E (2027)	IUY	108.100 MHz	HO	492607.01N 0023524.00W		(RWY 09)
ILS/GP	IUY	334.700 MHz	HO	492608.80N 0023634.89W		3° ILS Ref Datum Hgt 42 FT.
ILS/LOC I 0.68°E (2027)	IGH	108.100 MHz	HO	492604.26N 0023704.14W		(RWY 27)
ILS/GP	IGH	334.700 MHz	HO	492610.24N 0023550.72W		3° ILS Ref Datum Hgt 44 FT. Pilots must not descend on RWY 27 GP until fully established on RWY 27 LOC.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 0.69°E (2027) 0.52°W (2021)	GUR	31X 109.400 MHz	HO	492613.55N 0023613.72W	343 FT	On AD. Range 50 NM.
ILS/DME	IUY	18X 108.100 MHz	HO	492609.55N 0023613.29W	331 FT	(RWY 09) On AD. Frequency paired with ILS I-UY and I-GH. Zero range indicated at THR of Runway 09 and 27.
ILS/DME	IGH	18X 108.100 MHz	HO	492609.55N 0023613.29W	331 FT	(RWY 27) On AD. Frequency paired with ILS I-UY and I-GH. Zero range indicated at THR of Runway 09 and 27.

EGJB AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Channel Islands CTR.
b) All aircraft using Guernsey Airport and its facilities must comply with the requirements of the United Kingdom Civil Aviation (Insurance) Regulations 2005 and any future published amendments to these Regulations.
c) The use of the aerodrome is subject to 'Airport Terms and Conditions of Use'. These are available from Airport Administration (01481-227766) or on the Airport website (**www.airport.gg/airport-business/terms-conditions**).
d) In IMC, flight to Guernsey by aircraft not equipped with VOR will be by prior permission only.
e) The Director of Civil Aviation for the Bailiwick of Guernsey has issued Exemptions from the Air Navigation (Bailiwick of Guernsey) Law 2012 authorising operations in Bailiwick of Guernsey airspace including Guernsey and Alderney Airports, by home-built aircraft registered in ECAC Member States, and non-home-built aircraft registered in the UK, Ireland and France, operating on a National airworthiness certificate. (Separate exemptions extend the effect to Jersey Airport and Jersey Airspace.) Note that the exemptions do not exempt the pilot or operator from obtaining permission from Jersey ATC for flight in the Channel Islands Control Zone, from Guernsey ATC for flight in Guernsey airspace and use of Guernsey and Alderney Airports, or from the requirement to carry a transponder whilst flying within the Channel Islands Control Zone.
f) Guernsey airport conforms to the United Kingdom National Aviation Security Programme. A means of identification will be necessary for all aircrew and private aircraft passengers to gain access to aircraft, stands and parking areas.
g) The carriage of carrying dangerous or hazardous cargo is subject to a ‘permission granted’ under the Air Navigation (Bailiwick of Guernsey) Law 2012.
h) All aircrew whilst airside, are required to wear high visibility clothing at all times. Aircrew wearing high visibility clothing must escort passengers (not wearing high visibility clothing) to and from their aircraft. Pilots in charge of aircraft are responsible for ensuring that their crew and passengers comply with these requirements.
i) There is no access to the terminal building for crews and passengers of private and General Aviation flights unless the services of a handling agent are employed.
j) All commercial and general aviation aircraft using Guernsey Airport are required to use the services of a handling agent (see AD 2.4).
k) General Aviation aircraft intending to visit Guernsey must contact either Aircraft Servicing Guernsey or Aiglle Flight Support prior to arrival to arrange parking, customs and immigration. Contact details in EGJB AD 2.4 Handling Services and Facilities.
l) In respect of Aerodrome Operating Minima, the notified method of calculating Aerodrome Operating Minima for the purposes of the Air Navigation (Bailiwick of Guernsey) Law 2012 shall be that published in the UK AIP, Section AD 1.1 subsection 4, Aerodrome Operating Minima.
m) Applications for civilian formation flights in Special VFR within the CI Control Zone should ideally be made in writing or by e-mail to Jersey ATC Operations (atc.ops@jerseyairport.com) ideally with a minimum of seven days notice. Short notice application may be made to the Jersey ATC Watch Manager, Tel: +44 (0)1534-446086.

2 GROUND MOVEMENT

a) Commercial passenger aircraft will predominantly utilise stands 1 to 8, which are configured for nose-in push back operations. Guernsey Airport has authorised some approved smaller aircraft to self-manoeuvre onto and off these stands. Details are provided within the Aerodrome Manual. AC Fixed Electrical Ground Power is available on Stands 2, 3, 4 and 5. AC and DC Fixed Electrical Ground Power is available on Stands 1, 2, 3, 4, 5, 6, 7 and 8.
b) The apron configuration is shown at page AD 2-EGJB-2-2.
c) Aircraft proceeding from and to the East Apron or Aiglle Flight Support must exercise caution when transiting the A hold complex due to the potential for an incursion onto Runway 27. EGJB HS1 refers.
d) Guernsey Airport operates a 'ring of red' policy, with runway holding point stop bars in permanent operation. Pilots are reminded that they must not cross an illuminated red stop bar unless specifically authorised by ATC.

3 CAT II/III OPERATIONS

a) Arrivals: CAT II/III operations are not applicable.

   i. When Low Visibility Procedures are notified as in force by ATIS or RTF, pilots should, unless otherwise instructed by ATC, vacate the runway only at the runway ends and report vacated after passing the yellow/green section of taxiway lighting.

4 WARNINGS

a) Pilots are to note that flight is not permitted at a height of less than 2000 FT above ground level within 3 NM of 492546N 0022145W on the Island of Sark (R095) except with the permission of the Channel Islands Director of Civil Aviation or from Guernsey ATC as necessary.
b) The firing at Fort Le Marchant small arms range (493031N 0023105W), takes place seaward within sectors 347°T to 069°T, radius 3000 M.
c) Model Aircraft Flying may take place on any day of the year, during daylight hours, at Chouet headland (493021N 0023247W) up to 400 FT AMSL.
d) After periods of prolonged rainfall, isolated areas adjacent to the paved surfaces may become waterlogged and incapable of bearing weight.
e) Down draught or turbulence may be experienced on approaches to either runway in strong winds from any direction due to cliffs and valleys in local terrain.
f) When landing on Runway 27 in strong south east to south west winds, building induced turbulence and windshear conditions may be experienced.
g) There are no ground signals other than light signals, the chequered flag and the letter 'C' indicating the point to which pilots are required to report.
h) Due to coastal location, birds are a hazard throughout most of the year. This hazard level is raised during the migration season.
i) Taxiway D has a 2.5% slope between Holding Point A4 and Taxiway C.
j) Between D1 and D2 the taxiway to runway centre-line distance reduces to 123 M.
k) When LVPs are not in force, maintenance and birdscaring vehicles may operate inside the 140 M runway strip but outside the 105 M clear and graded area.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Light aircraft are to land and take-off on the paved runway. No other light aircraft landing area is available.

7 TRAINING

a) All instrument and circuit training must be booked in advance with Guernsey ATC (call 01481-227766 and ask for ATC Supervisor). A request for training in Item 18 of a FPL will not be accepted as a booking or allocated a training slot.

EGJB AD 2.21 NOISE ABATEMENT PROCEDURES

All aircraft must conform to the following procedures. These procedures may only be departed from to the extent necessary for avoiding immediate danger.

a) Every operator using the airport shall ensure that at all times aircraft are operated in a manner calculated to cause the least disturbance practicable over all parts of the island.
b) Unless ATC otherwise authorise, the Noise Preferential Routings and Procedures specified below shall apply to all aircraft approaching, landing, 'going around' or taking-off in accordance with their ATC clearance.

   i. All departing aircraft weighing 5,700 kg or more will climb straight ahead to at least 1836 FT QNH (1500 FT QFE), or 3 DME, whichever is the sooner, before turning on course.
   ii. Non-SID IFR, VFR or Special VFR departures weighing less than 5,700 kg must climb straight ahead until at least 850 FT AMSL before turning. This also applies to circuit traffic.

c) Visual Approaches – Aircraft to carry out visual approaches should proceed as follows:

   i. MTOW 5700 kg or less – join the final approach at not less than, and maintain, 836 (500) FT until intercepting the on glidepath PAPI indications
   ii. MTOW greater than 5700 kg – join the final approach before crossing the coastline. Any aircraft overflying the Island to position on final approach must do so at an altitude of not less than 1500 FT AMSL.

d) Circuit Joining and Training Height – Standard circuit height is 700 FT AAL.
e) Jet Aircraft Procedures – The Noise Preferential Routings and Procedures specified above will be used except that on 'going around', aircraft operating under IFR will, unless otherwise instructed, carry out the published missed approach procedure. Aircraft operating under VFR/SVFR will carry out a missed approach procedure as instructed by Air Traffic Control.
f) Training flights by approved ‘quiet’ jet aircraft may be permitted between 0800-2000 (0700-1900) Monday to Saturday inclusive (details from ATC).

g) All aircraft are to avoid overflying the Princess Elizabeth Hospital (2 NM ENE of the aerodrome) at less than 1000 FT AGL.
h) Chapter 2 aircraft are not permitted to use Guernsey Airport unless the operator has received special permission from Guernsey Airport.
i) Limitations of the use of Aircraft Auxiliary Power Units (APUs)

Pilots and engineers should limit the use of APUs whilst operating at Guernsey Airport. The following restrictions of use are in place:

i. All departing aircraft shall not start the APU more than 45 minutes before the scheduled off-block time (SOBT).
ii. All arriving aircraft, the APU shall be shut down within 10 minutes of arrival.
iii. During periods where the outside air temperature is below 5°C or above 25°C, the APU restriction for departing aircraft can be extended to 60 minutes before SOBT.
iv. Where any fixed or mobile ground power units are not capable of providing sufficient or the correct power, the APU shall not be started more than 45 minutes before SOBT.
v. Any APU operation outside of the policy must receive explicit permission from Guernsey Airport.

EGJB AD 2.22 FLIGHT PROCEDURES

1 INBOUND PROCEDURES

a) Arrival routes at AD 2-EGJB-7-1 may be varied at the discretion of ATC.

2 VFR FLIGHT

a) A flight plan must be filed for all flights within and intending to transit the Channel Islands CTR. For flights between Guernsey and Alderney and vice versa, abbreviated flight plan details may be submitted on forms available at either aerodrome.
b) VFR clearance to operate within the Guernsey ATZ will not be granted if the reported visibility is less than 5 KM or the reported cloud ceiling is less than 1500 FT in accordance with SERA.5001.
c) Pilots must note that the Channel Island Director of Civil Aviation has not adopted the SERA derogations issued by the United Kingdom, and therefore they do not apply in Channel Island Airspace.
d) Aircraft shall be given a radar service whilst within Channel Islands Airspace. It is the responsibility of the pilot to comply with minimum VMC criteria in accordance with SERA.5001. Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
e) VFR Flights may be subject to delay when they cannot be fitted readily into the main traffic flow. Pilots should, therefore, always ensure that they have adequate fuel reserves and are able to divert to alternate aerodrome if necessary.

3 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

4 SPECIAL VFR FLIGHT

a) Prior Permission

i. A flight plan must be filed for all Special VFR flights within and intending to transit the Channel Islands CTR. For flights between Guernsey and Alderney and vice versa, abbreviated flight plan details may be submitted on forms available at either aerodrome.
ii. Special VFR clearances for flights within the Channel Islands CTR may be requested and will be given whenever traffic conditions permit. Special VFR flights within the Guernsey ATZ will be subject to the general conditions laid down for Special VFR flights in SERA.5010. Pilots must note that the Channel Island Director of Civil Aviation has not adopted the SERA derogations issued by the United Kingdom, and therefore they do not apply in Channel Island Airspace.
iii. Special VFR clearances for flights within the Channel Islands CTR may be requested and will be given whenever traffic conditions permit. These flights are subject to the general conditions laid down for Special VFR Flights.
iv. The use of Special VFR clearances is intended to be limited to light aircraft which cannot comply with full IFR requirements and wish to proceed to or from an aerodrome within or to transit the Channel Islands CTR.

b) Special Routes

i. Aircraft operating in accordance with Special VFR will normally be cleared via the published VRPs or on tracks to/from adjacent aerodromes or navigation aids, or as per flight planned route.
ii. Special VFR may be subject to delay when they cannot be fitted readily into the main traffic flow. Pilots should, therefore, always ensure that they have adequate fuel reserves and are able to divert to alternate aerodrome if necessary.

c) Weather Minima

i. Aircraft shall be given a radar service whilst within Channel Islands Airspace. It is the responsibility of the pilot to comply with minimum VMC criteria in accordance with SERA.5010. Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
ii. Special VFR clearances to operate within the Guernsey ATZ will not be granted to a fixed wing aircraft if the reported visibility is less than 1500 M or the reported cloud ceiling is less than 600 FT (SERA.5010).
iii. Special VFR clearances to operate within the Guernsey ATZ will not be granted to a helicopter if the reported visibility is less than 800 M or the reported cloud ceiling is less than 600 FT (SERA.5010).

iv. The Director of Civil Aviation has approved the issue of Special VFR clearances at night.

5 SARK RESTRICTED AREA

a) Pilots are to note that flight is not permitted at a height of less than 2000 FT above ground level within 3 NM of 492546N 0022145W on the Island of Sark (R095) except with the permission of the Channel Islands Director of Civil Aviation or from Guernsey ATC as necessary.

6 RADIO COMMUNICATION FAILURE PROCEDURES

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1.
b) Radio Failure in the circuit

i. The pilot of an aircraft in the circuit experiencing radio failure should set the transponder code to 7600, and make one orbit away from the airfield. At the end of the downwind leg, proceed to final and land, providing the runway is clear.
ii. The pilot of an aircraft on base leg or final, having been cleared to final when the failure occurs, should, if time permits, change code to 7600, continue the approach and land, providing the Runway is clear.
iii. The pilot of a non transponder equipped aircraft should adopt the same procedure as in i), or ii).

7 FLIGHT PLANS

a) See ENR 1.11.

8 OMNI-DIRECTIONAL DEPARTURES

a) Only available with ATC clearance.

Omni-directional Departures		
Runway	**Description**	**Restrictions**
09	Climb straight ahead on track 089°M to 850 QNH (514 QFE), then turn on track climbing to enroute safety altitude or in accordance with ATC Clearance. PDG 3.3%.	Close-in obstacles exist. See Aerodrome Obstacle Chart and EGJB AD 2.10 Aerodrome Obstacles. This procedure does not take account of noise abatement procedures which may require climb to a higher level. See EGJB AD 2.21 for Noise Abatement Procedures.
27	Climb straight ahead on track 269°M to 850 QNH (514 QFE), then turn on track climbing to enroute safety altitude or in accordance with ATC clearance. PDG 3.3%.	Close-in obstacles exist. See Aerodrome Obstacle Chart and EGJB AD 2.10 Aerodrome Obstacles. This procedure does not take account of noise abatement procedures which may require climb to a higher level. See EGJB AD 2.21 for Noise Abatement Procedures.

9 CARRIAGE AND OPERATION OF SSR TRANSPONDERS

a) The carriage and operation of SSR transponder equipment with the following capability is mandatory when flying within the Channel Islands CTR, CTA or TMA:

i. when operating as a VFR or Special VFR Flight;
ii. when operating under IFR - Mode A 4096 codes and Mode C with altitude reporting capability.

b) Exemptions from the requirements may be given in the following circumstances:

i. for notified agreed events such as air rallies etc., applications for exemption must be made in writing to Manager - Air Traffic Control, Jersey Airport, Channel Islands, Email: atc@jerseyairport.com at least one calendar month before the event;
ii. for short notice exemptions, applications must be made to the Watch Supervisor, Jersey Airport, Tel: 01534-446086 giving full details. Such exemptions will not normally be granted unless it is considered that exceptional circumstances exist.

EGJB AD 2.23 ADDITIONAL INFORMATION

a) Guernsey Approach and Guernsey Tower may be provided as a combined function. Periods when active will be notified by ATIS.

EGJB AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGJB-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGJB-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGJB-5-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) GULDA - ICAO
AD 2.EGJB-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) ORTAC - ICAO
AD 2.EGJB-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) DINARD/ORVAL - ICAO
AD 2.EGJB-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) LUSIT 1W 2E - ICAO
AD 2.EGJB-6-4
STANDARD DEPARTURE CHART - INSTRUMENT (SID) SKERY - ICAO
AD 2.EGJB-6-5
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09/27 ORIST 1F 1X - ICAO
AD 2.EGJB-6-6
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09/27 LERAK 1F 1X - ICAO
AD 2.EGJB-6-7
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 09 ORIST 1F LERAK 1F RWY 27 ORIST 1X LERAK 1X
AD 2.EGJB-6-8
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 ORTAC 1B 1V ALD 1G SKERY 1G BIGNO 1G LELNA 1B 1V - ICAO
AD 2.EGJB-7-1
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 BEVAV 1G DIN 1G - ICAO
AD 2.EGJB-7-2
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 09 - ICAO
AD 2.EGJB-8-1
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 09 - ICAO
AD 2.EGJB-8-2
INSTRUMENT APPROACH CHART RNP RWY 09 - ICAO
AD 2.EGJB-8-3
INSTRUMENT APPROACH CHART VOR/DME RWY 09 - ICAO
AD 2.EGJB-8-4
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 27 - ICAO
AD 2.EGJB-8-5
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 27 - ICAO
AD 2.EGJB-8-6
INSTRUMENT APPROACH CHART RNP RWY 27 - ICAO
AD 2.EGJB-8-7
INSTRUMENT APPROACH CHART VOR/DME RWY 27 - ICAO
AD 2.EGJB-8-8
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09
AD 2.EGJB-8-9
SBAS FAS DATA BLOCK CODING DATA - RNP RWY 09
AD 2.EGJB-8-10
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 27
AD 2.EGJB-8-11
SBAS FAS DATA BLOCK CODING DATA - RNP RWY 27
AD 2.EGJB-8-12

EGJB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 492606N 0023610W

AD ELEV 336FT

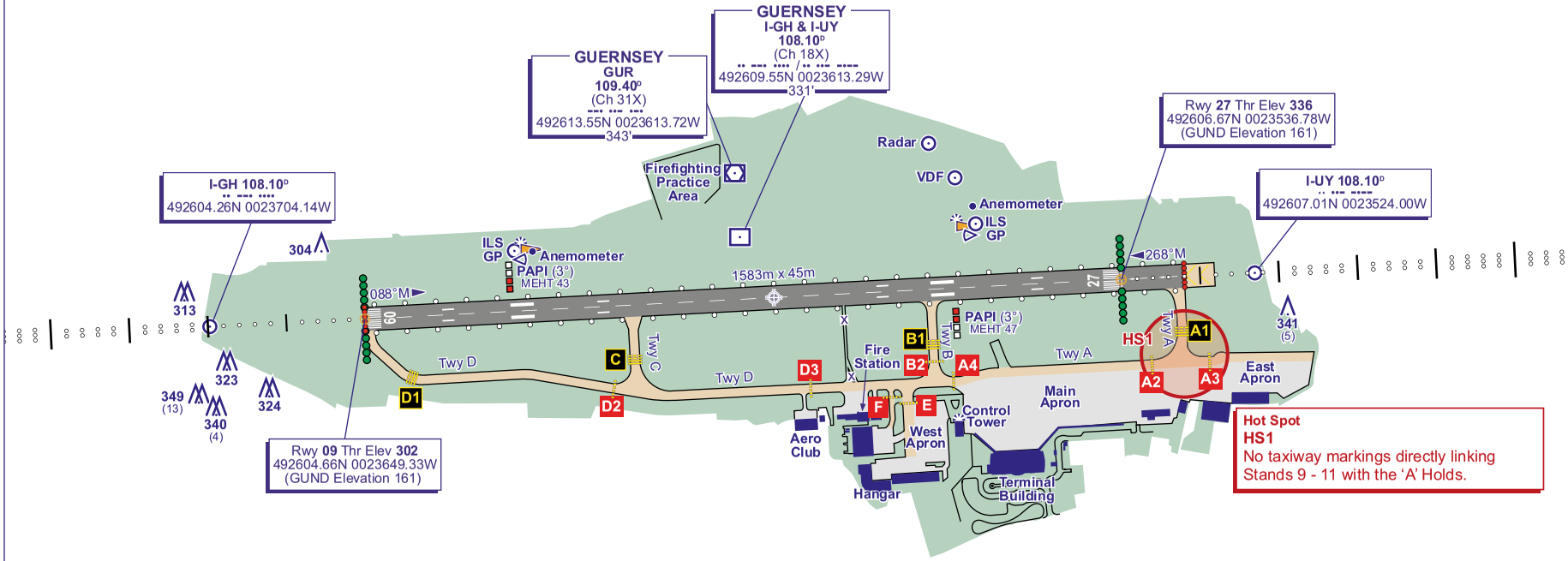
GUERNSEY
EGJB

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	349 (13)

100 0 100 200 300 m
200 0 200 400 600 800 1000 ft

VAR 0.1°W - 2022
N
Annual Rate of Change 0.19°E

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	PCN
RWY 09/27	Grooved Asphalt	36/F/C/W/T
TWY A	Asphalt	36/F/C/W/T
TWY D	Asphalt	36/F/C/W/T
Apron (All)	*See AD 2-EGJB-2-2*	



COM		
ATIS	109.400 (VOR)	GUERNSEY INFO
TWR	119.955	GUERNSEY TOWER
	121.805 (GMC)	GUERNSEY GROUND
	121.600	GUERNSEY FIRE

LIGHTING	
APCH 09	HI 803 m coded C/L with 5 crossbars.
APCH 27	HI 895 m coded C/L with 5 crossbars.
THR 09/27	Green with HI green wing bars.
RWY 09/27	HI elev bi-d with LI omni-d component. HI bi-d colour coded C/L. End lights red.
TWY	Entrance to RWY indicated by alternating green/amber C/L lights. Green C/L. Blue edge. Enhanced Stop Bars at RWY holds A1, B1, C & D1. Other Stop Bars at A2, A3, A4, B2, D2 & D3.

CHANGE (10/25): TWY EDGE LIGHTING TABLE. EDITORIAL

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 492606N 0023610W

AD ELEV 336FT

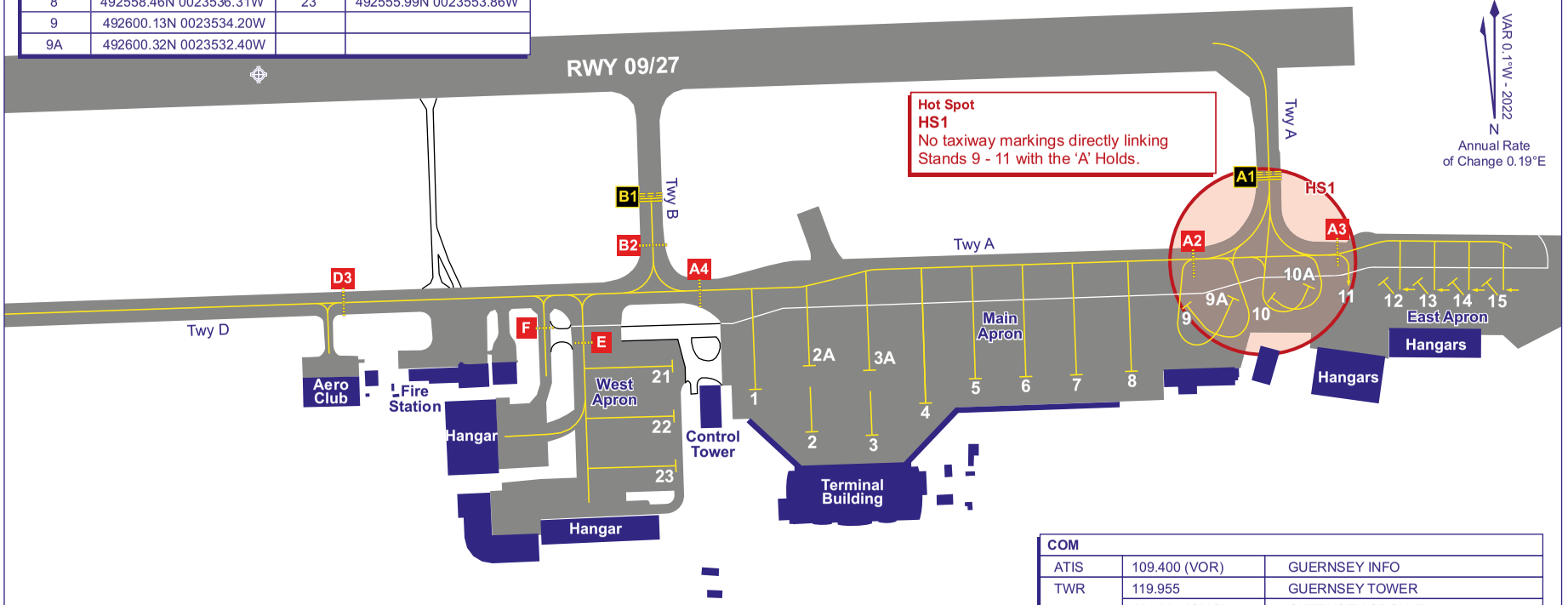
GUERNSEY
EGJB

AERO INFO DATE 25 JUL 25

STAND	COORDINATE	STAND	COORDINATE
1	492557.93N 0023550.81W	10	492600.35N 0023530.93W
2	492556.87N 0023548.62W	10A	492600.63N 0023529.49W
2A	492558.53N 0023548.73W	11	492600.67N 0023527.95W
3	492556.78N 0023546.32W	12	492600.77N 0023526.61W
3A	492558.43N 0023546.42W	13	492600.77N 0023525.29W
4	492557.62N 0023544.24W	14	492600.77N 0023523.95W
5	492558.24N 0023542.33W	15	492600.77N 0023522.63W
6	492558.30N 0023540.38W	21	492558.50N 0023554.02W
7	492558.36N 0023538.43W	22	492557.24N 0023553.95W
8	492558.46N 0023536.31W	23	492555.99N 0023553.86W
9	492600.13N 0023534.20W		
9A	492600.32N 0023532.40W		

50 0 50 100 150 m
100 0 100 200 300 400 500 ft

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	PCN
Main Apron Stands 1 - 4	Concrete	50/R/C/W/T
Main Apron Stands 5 - 10	Concrete	36/R/C/W/T
West Apron	Concrete	36/R/C/W/T
East Apron	Asphalt	15/F/C/W/T
RWY 09/17	*See AD 2-EGJB-2-1*	
TWY (All)		



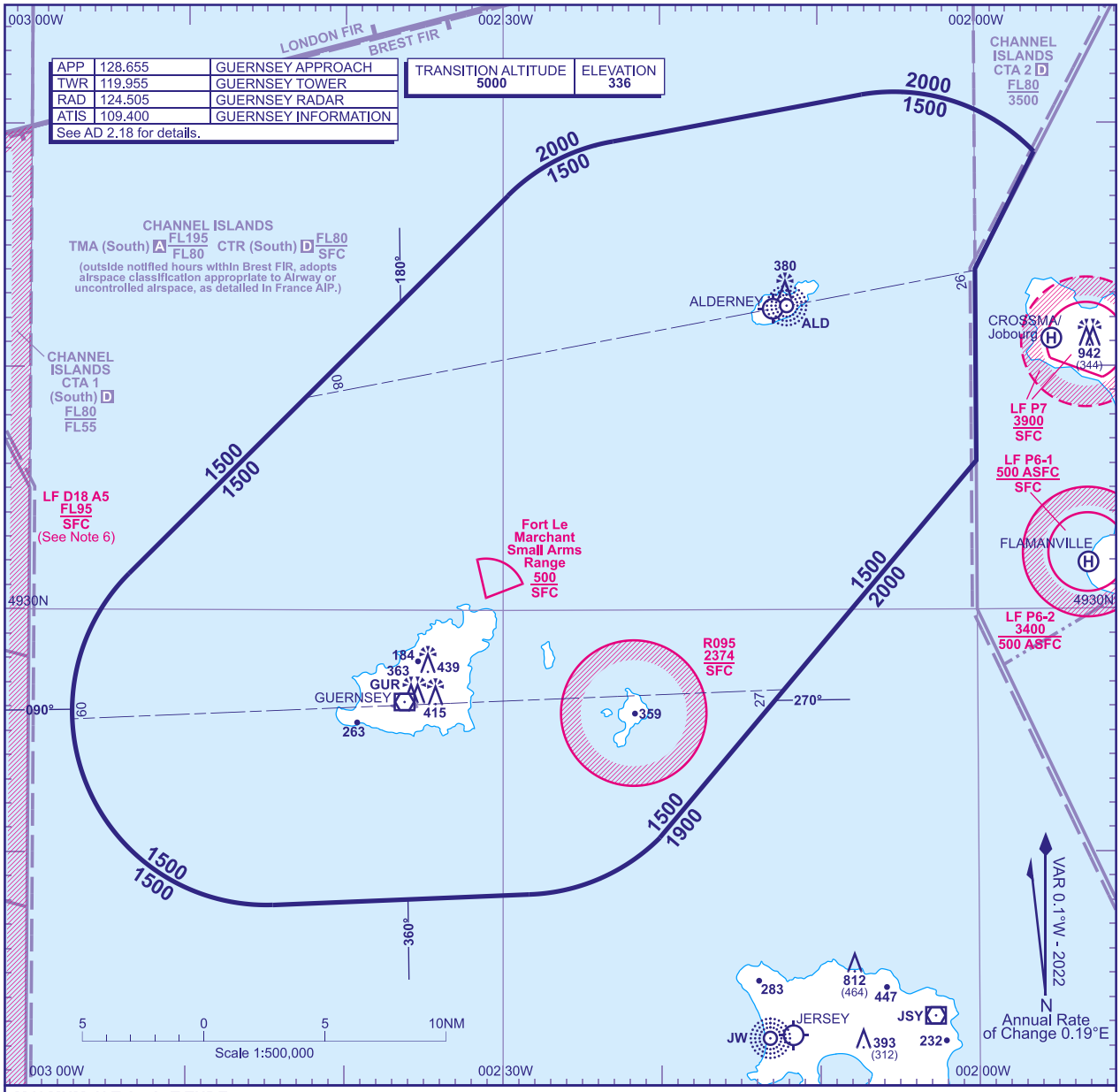
COM		
ATIS	109.400 (VOR)	GUERNSEY INFO
TWR	119.955	GUERNSEY TOWER
	121.805 (GMC)	GUERNSEY GROUND
	121.600	GUERNSEY FIRE
LIGHTING		
TWY	Entrance to RWY indicated by alternating green/amber C/L lights. Green C/L. Blue edge. Enhanced Stop Bars at RWY holds A1, B1, C & D1. Other Stop Bars at A2, A3, A4, B2, D2 & D3.	

CHANGE (10/25): TWY EDGE LIGHTING TABLE. EDITORIAL.

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 812
ELEVATIONS IN FEET AGL (464)

GUERNSEY



MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is **1500** in the sector defined by the lateral limits; 493129N 0025341W - 494705N 0022941W thence clockwise by an arc of a circle radius 8NM centred on 494125N 0022058W to 494919N 0022301W - 495113N 0020710W thence clockwise by an arc of a circle radius 8NM centred on 494320N 0020510W to 494850N 0015613W - 494401N 0020000W - 493607N 0020000W - 492038N 0022007W thence clockwise by an arc of a circle radius 8NM centred on 492618N 0022846W to 491818N 0022821W - 491751N 0024431W thence clockwise by an arc of a circle radius 8NM centred on 492551N 0024458W to 493129N 0025341W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:
a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.
*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher to **GUR VOR**†.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **GUR VOR**†.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **LF D18 A5** SFC-FL95, except for within CHANNEL ISLANDS CTA-1 (South) and TMA (South) when active.
7. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**

CHANGE (10/23): GUERNSEY RADAR FREQUENCY.

AERO INFO DATE 27 JUL 23
AD 2-EGJB-5-1

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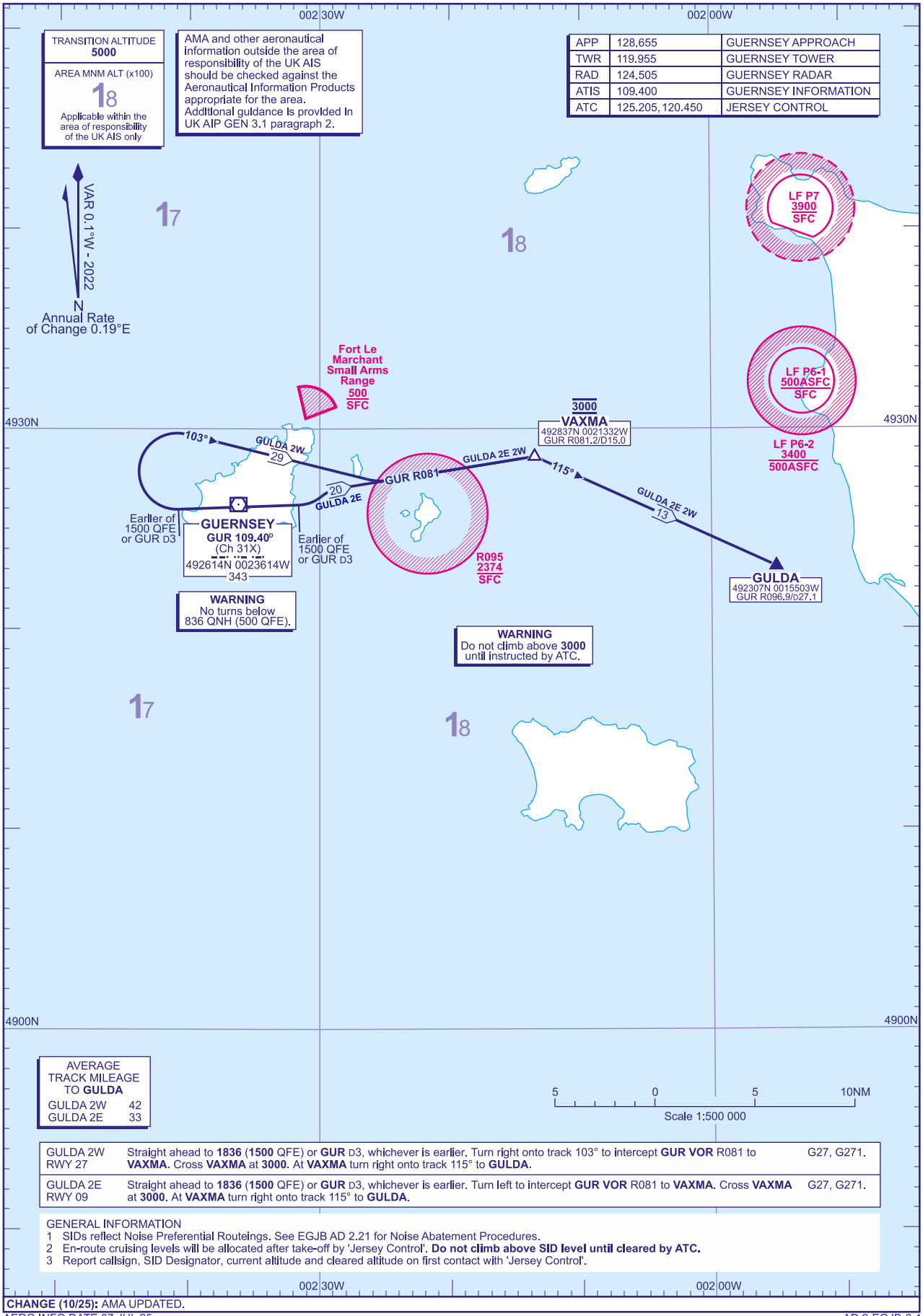
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY
GULDA



GULDA 2W RWY 27	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn right onto track 103° to intercept **GUR VOR** R081 to **VAXMA**. Cross **VAXMA** at **3000**. At **VAXMA** turn right onto track 115° to **GULDA**.	G27, G271.
GULDA 2E RWY 09	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn left to intercept **GUR VOR** R081 to **VAXMA**. Cross **VAXMA** at **3000**. At **VAXMA** turn right onto track 115° to **GULDA**.	G27, G271.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGJB AD 2.21 for Noise Abatement Procedures.
2 En-route cruising levels will be allocated after take-off by 'Jersey Control'. **Do not climb above SID level until cleared by ATC.**
3 Report callsign, SID Designator, current altitude and cleared altitude on first contact with 'Jersey Control'.

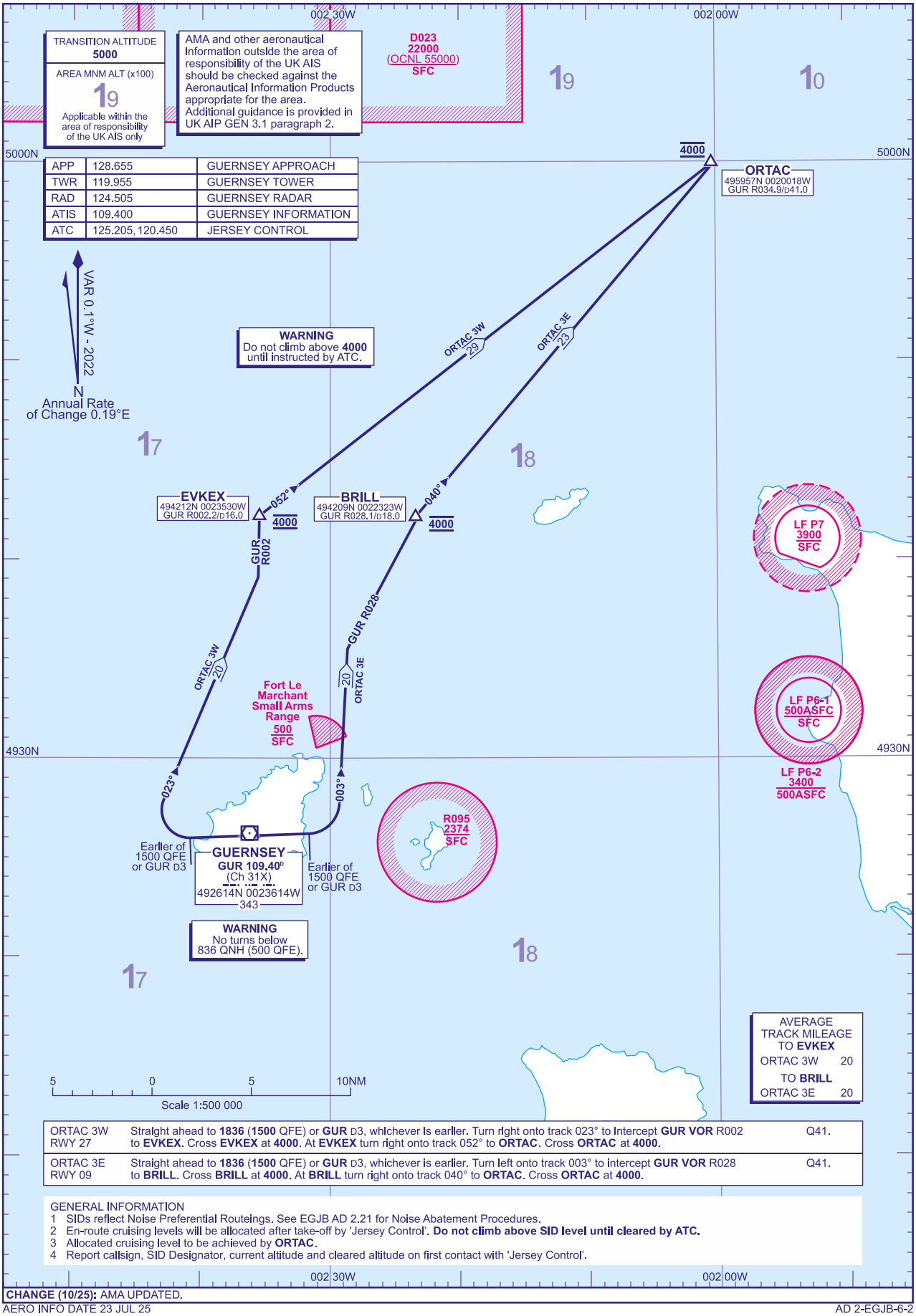
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 07 JUL 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY ORTAC



ORTAC 3W RWY 27	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn right onto track 023° to intercept **GUR VOR** R002 to **EVKEX**. Cross **EVKEX** at **4000**. At **EVKEX** turn right onto track 052° to **ORTAC**. Cross **ORTAC** at **4000**.	Q41.
ORTAC 3E RWY 09	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn left onto track 003° to intercept **GUR VOR** R028 to **BRILL**. Cross **BRILL** at **4000**. At **BRILL** turn right onto track 040° to **ORTAC**. Cross **ORTAC** at **4000**.	Q41.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGJB AD 2.21 for Noise Abatement Procedures.
2 En-route cruising levels will be allocated after take-off by 'Jersey Control'. **Do not climb above SID level until cleared by ATC.**
3 Allocated cruising level to be achieved by **ORTAC**.
4 Report callsign, SID Designator, current altitude and cleared altitude on first contact with 'Jersey Control'.

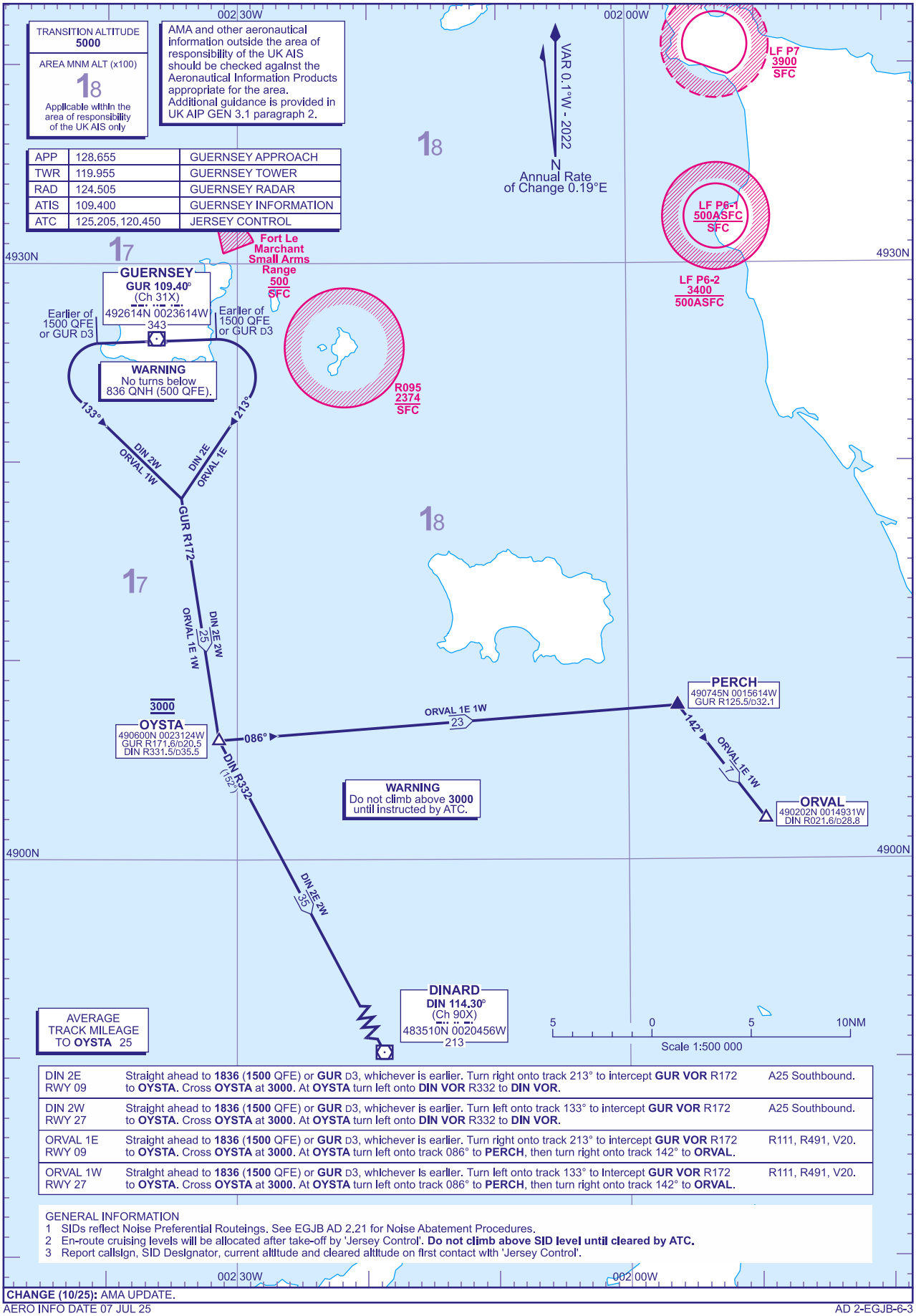
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 23 JUL 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY DINARD/ORVAL



DIN 2E RWY 09	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn right onto track 213° to intercept **GUR VOR** R172 to **OYSTA**. Cross **OYSTA** at **3000**. At **OYSTA** turn left onto **DIN VOR** R332 to **DIN VOR**.	A25 Southbound.
DIN 2W RWY 27	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn left onto track 133° to intercept **GUR VOR** R172 to **OYSTA**. Cross **OYSTA** at **3000**. At **OYSTA** turn left onto **DIN VOR** R332 to **DIN VOR**.	A25 Southbound.
ORVAL 1E RWY 09	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn right onto track 213° to intercept **GUR VOR** R172 to **OYSTA**. Cross **OYSTA** at **3000**. At **OYSTA** turn left onto track 086° to **PERCH**, then turn right onto track 142° to **ORVAL**.	R111, R491, V20.
ORVAL 1W RWY 27	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn left onto track 133° to intercept **GUR VOR** R172 to **OYSTA**. Cross **OYSTA** at **3000**. At **OYSTA** turn left onto track 086° to **PERCH**, then turn right onto track 142° to **ORVAL**.	R111, R491, V20.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGJB AD 2.21 for Noise Abatement Procedures.
2 En-route cruising levels will be allocated after take-off by 'Jersey Control'. **Do not climb above SID level until cleared by ATC.**
3 Report callsign, SID Designator, current altitude and cleared altitude on first contact with 'Jersey Control'.

CHANGE (10/25): AMA UPDATE.

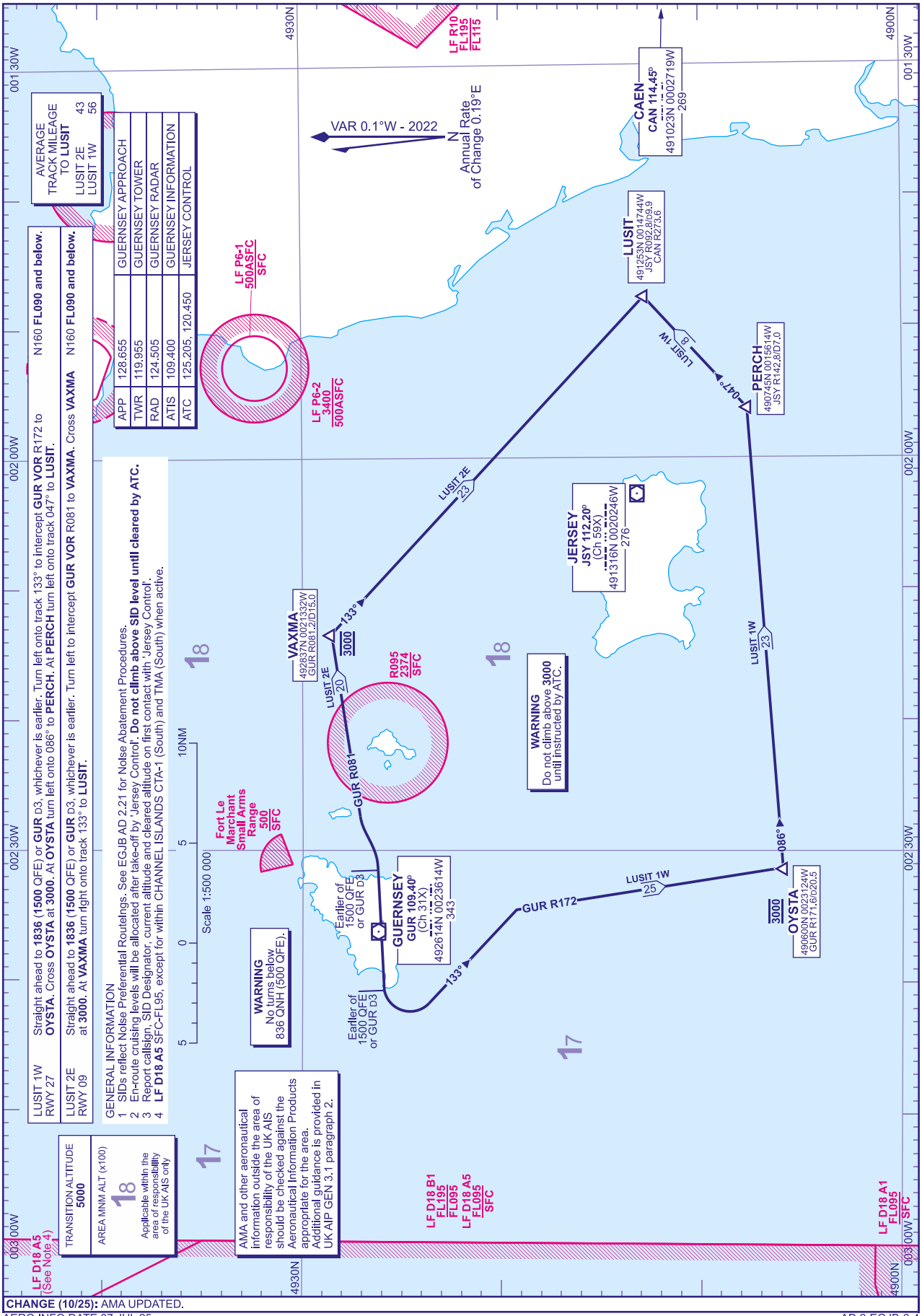
AERO INFO DATE 07 JUL 25

AD 2-EGJB-6-3

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY
LUSIT 1W 2E



CHANGE (10/25): AMA UPDATED.

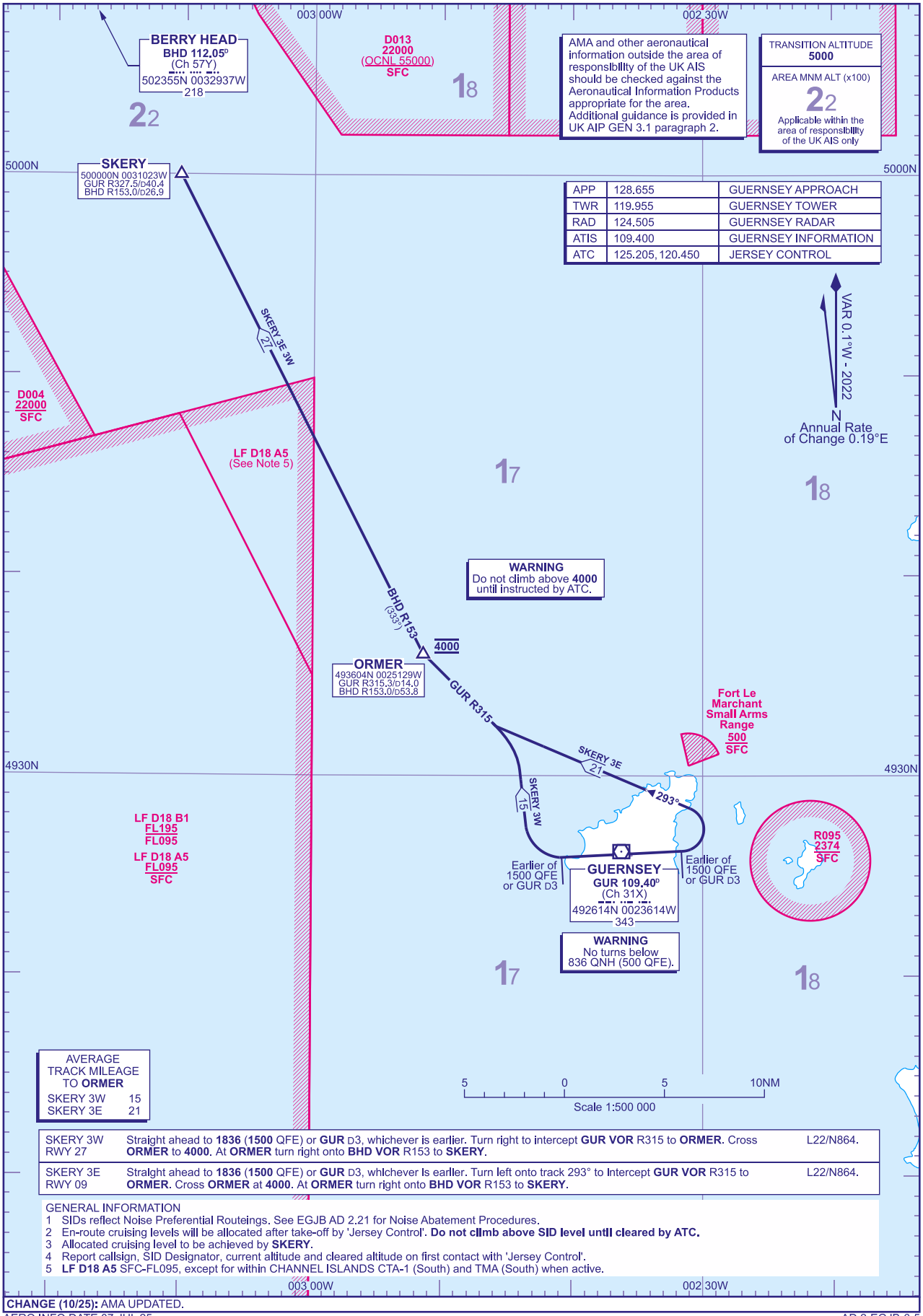
AERO INFO DATE 07 JUL 25

AD 2-EGJB-6-4

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY SKERY



SKERY 3W RWY 27	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn right to intercept **GUR VOR** R315 to **ORMER**. Cross **ORMER** to **4000**. At **ORMER** turn right onto **BHD VOR** R153 to **SKERY**.	L22/N864.
SKERY 3E RWY 09	Straight ahead to **1836** (**1500** QFE) or **GUR** D3, whichever is earlier. Turn left onto track 293° to intercept **GUR VOR** R315 to **ORMER**. Cross **ORMER** at **4000**. At **ORMER** turn right onto **BHD VOR** R153 to **SKERY**.	L22/N864.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGJB AD 2.21 for Noise Abatement Procedures.
2 En-route cruising levels will be allocated after take-off by 'Jersey Control'. **Do not climb above SID level until cleared by ATC.**
3 Allocated cruising level to be achieved by **SKERY**.
4 Report callsign, SID Designator, current altitude and cleared altitude on first contact with 'Jersey Control'.
5 **LF D18 A5** SFC-FL095, except for within CHANNEL ISLANDS CTA-1 (South) and TMA (South) when active.

CHANGE (10/25): AMA UPDATED.

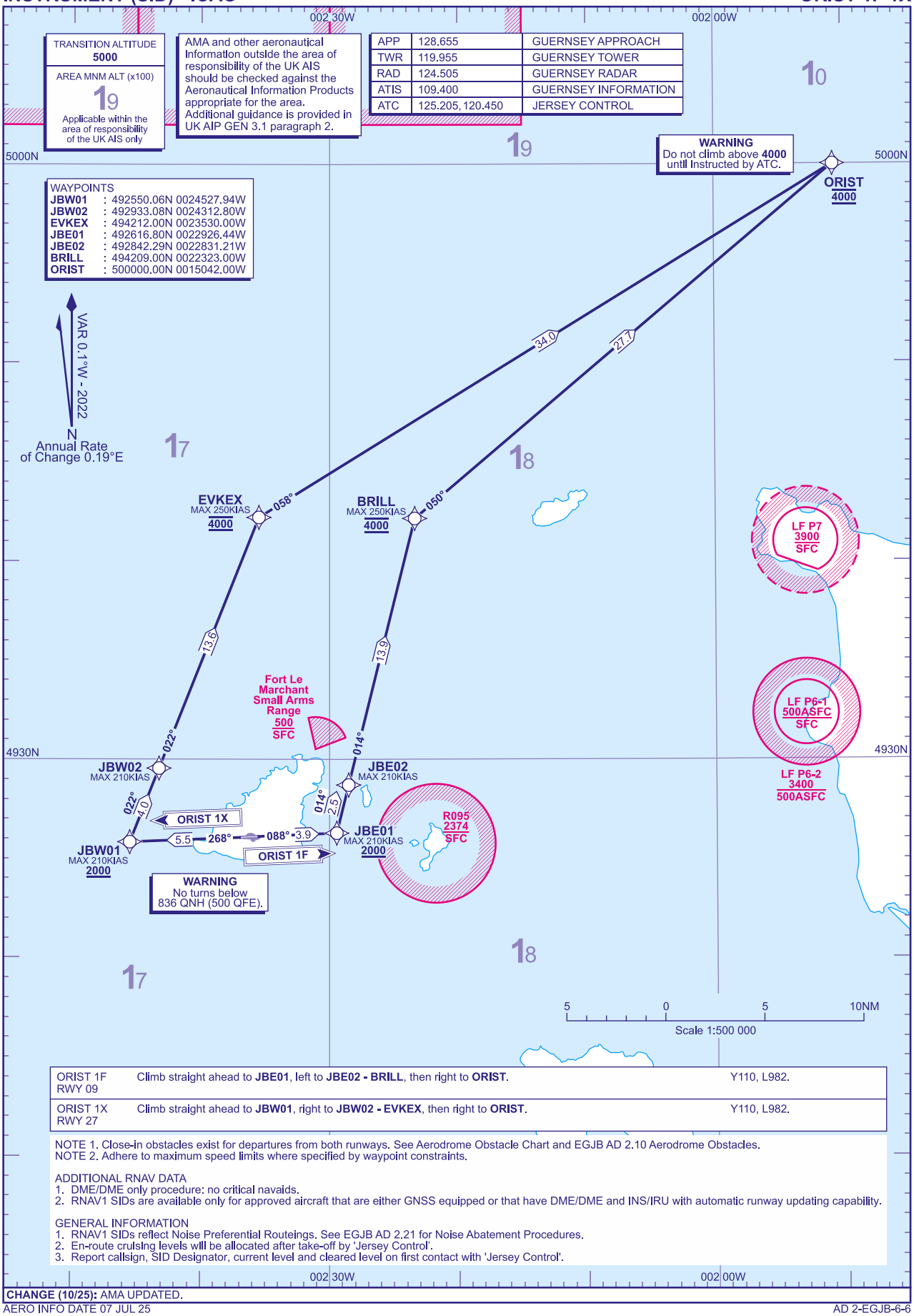
AERO INFO DATE 07 JUL 25

AD 2-EGJB-6-5

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY
RWY 09/27
ORIST 1F 1X



ORIST 1F RWY 09	Climb straight ahead to **JBE01**, left to **JBE02 - BRILL**, then right to **ORIST**.	Y110, L982.
ORIST 1X RWY 27	Climb straight ahead to **JBW01**, right to **JBW02 - EVKEX**, then right to **ORIST**.	Y110, L982.

NOTE 1. Close-in obstacles exist for departures from both runways. See Aerodrome Obstacle Chart and EGJB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGJB AD 2.21 for Noise Abatement Procedures.
2. En-route cruising levels will be allocated after take-off by 'Jersey Control'.
3. Report callsign, SID Designator, current level and cleared level on first contact with 'Jersey Control'.

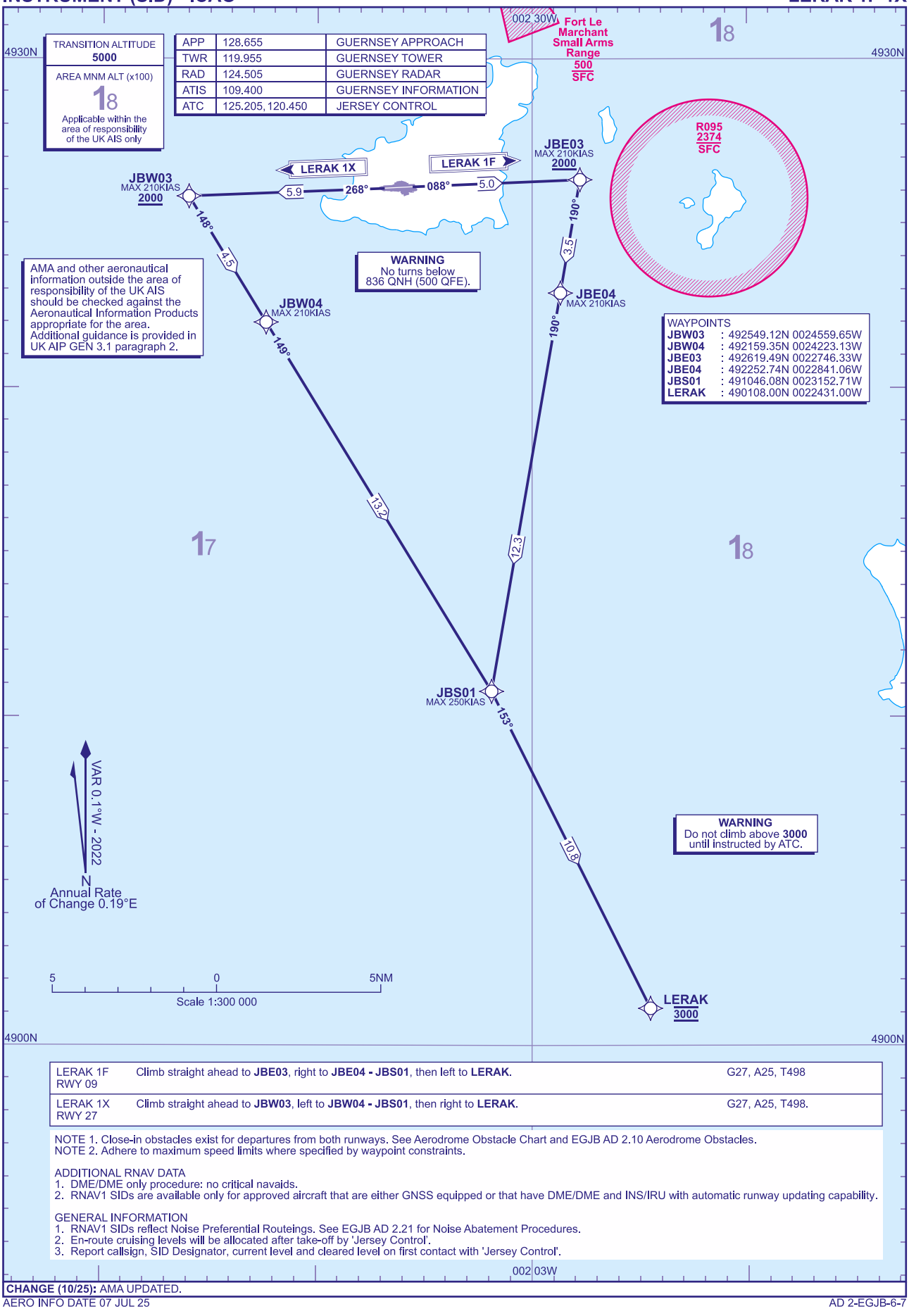
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 07 JUL 25 AD 2-EGJB-6-6

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY
RWY 09/27
LERAK 1F 1X



LERAK 1F RWY 09	Climb straight ahead to **JBE03**, right to **JBE04 - JBS01**, then left to **LERAK**.	G27, A25, T498
LERAK 1X RWY 27	Climb straight ahead to **JBW03**, left to **JBW04 - JBS01**, then right to **LERAK**.	G27, A25, T498.

NOTE 1. Close-in obstacles exist for departures from both runways. See Aerodrome Obstacle Chart and EGJB AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGJB AD 2.21 for Noise Abatement Procedures.
2. En-route cruising levels will be allocated after take-off by 'Jersey Control'.
3. Report callsign, SID Designator, current level and cleared level on first contact with 'Jersey Control'.

CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 07 JUL 25

Standard Instrument Departure Coding Tables

GUERNSEY Runway 09 ORIST 1F

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ORIST1F	001	CF	JBE01	492616.80N 0022926.44W	N	088° (087.6°)	-0.1	3.9	LEFT	+2000	-210	RNAV1
ORIST1F	002	TF	JBE02	492842.29N 0022831.21W	N	014° (013.9°)	-0.1	2.5	-	-	-210	RNAV1
ORIST1F	003	TF	BRILL	494209.00N 0022323.00W	N	014° (013.9°)	-0.1	13.9	RIGHT	4000	-250	RNAV1
ORIST1F	004	TF	ORIST	500000.00N 0015042.00W	N	050° (049.6°)	-0.1	27.7	-	4000	-	RNAV1

GUERNSEY Runway 27 ORIST 1X

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ORIST1X	001	CF	JBW01	492550.06N 0024527.94W	N	268° (267.6°)	-0.1	5.5	RIGHT	+2000	-210	RNAV1
ORIST1X	002	TF	JBW02	492933.08N 0024312.80W	N	022° (021.5°)	-0.1	4.0	-	-	-210	RNAV1
ORIST1X	003	TF	EVKEX	494212.00N 0023530.00W	N	022° (021.6°)	-0.1	13.6	RIGHT	4000	-250	RNAV1
ORIST1X	004	TF	ORIST	500000.00N 0015042.00W	N	058° (058.1°)	-0.1	34.0	-	4000	-	RNAV1

GUERNSEY Runway 09 LERAK 1F

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LERAK1F	001	CF	JBE03	492619.49N 0022746.33W	N	088° (087.6°)	-0.1	5.0	RIGHT	+2000	-210	RNAV1
LERAK1F	002	TF	JBE04	492252.74N 0022841.06W	N	190° (189.8°)	-0.1	3.5	-	-	-210	RNAV1
LERAK1F	003	TF	JBS01	491046.08N 0023152.71W	N	190° (189.8°)	-0.1	12.3	LEFT	-	-250	RNAV1
LERAK1F	004	TF	LERAK	490108.00N 0022431.00W	N	153° (153.3°)	-0.1	10.8	-	3000	-	RNAV1

GUERNSEY Runway 27 LERAK 1X

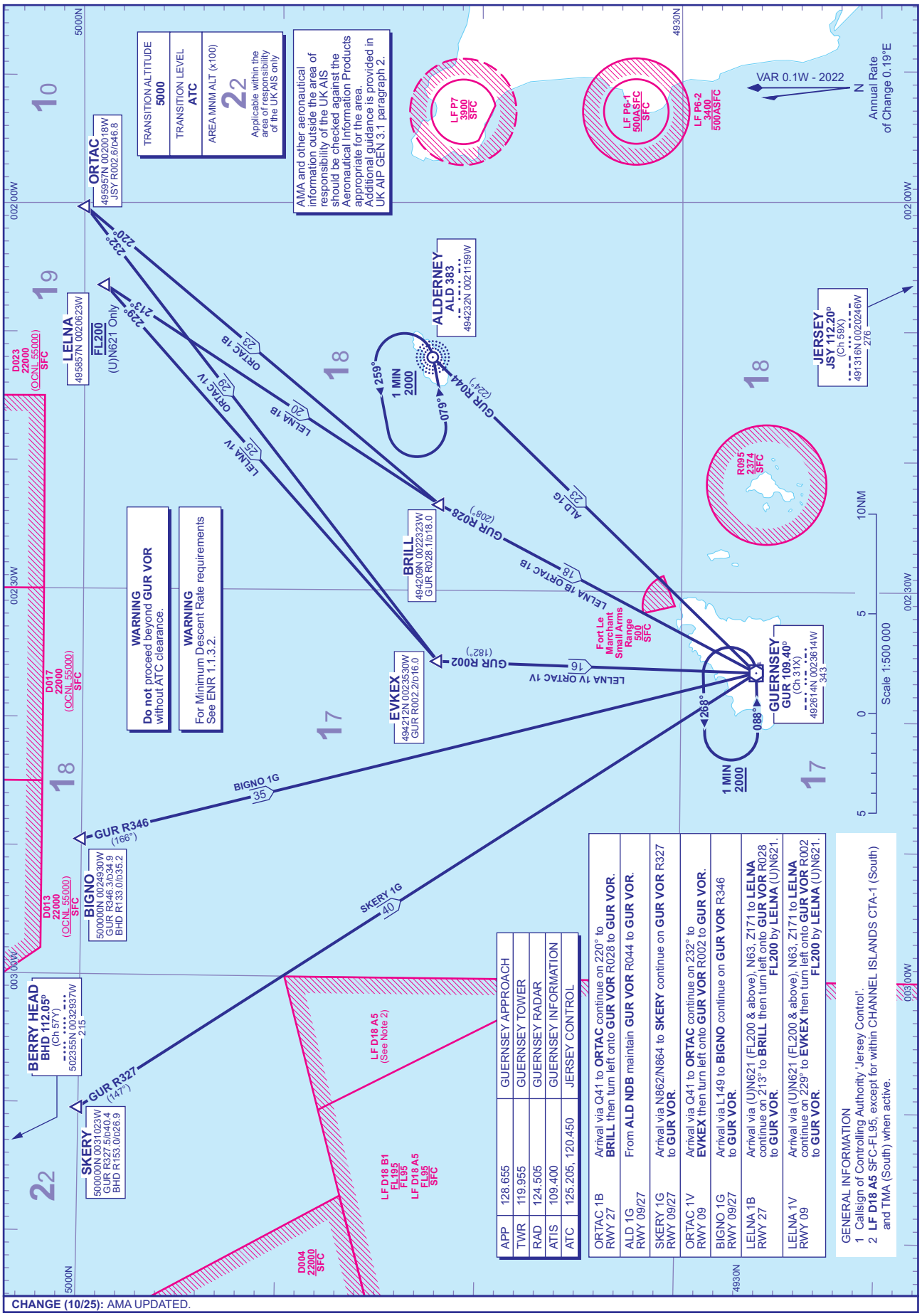
Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LERAK1X	001	CF	JBW03	492549.12N 0024559.65W	N	268° (267.6°)	-0.1	5.9	LEFT	+2000	-210	RNAV1
LERAK1X	002	TF	JBW04	492159.35N 0024223.13W	N	148° (148.4°)	-0.1	4.5	-	-	-210	RNAV1
LERAK1X	003	TF	JBS01	491046.08N 0023152.71W	N	149° (148.4°)	-0.1	13.2	RIGHT	-	-250	RNAV1
LERAK1X	004	TF	LERAK	490108.00N 0022431.00W	N	153° (153.3°)	-0.1	10.8	-	3000	-	RNAV1

CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 28 MAY 24

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY RWY 09/27
ORTAC 1B 1V ALD 1G SKERY 1G BIGNO 1G LELNA 1B 1V



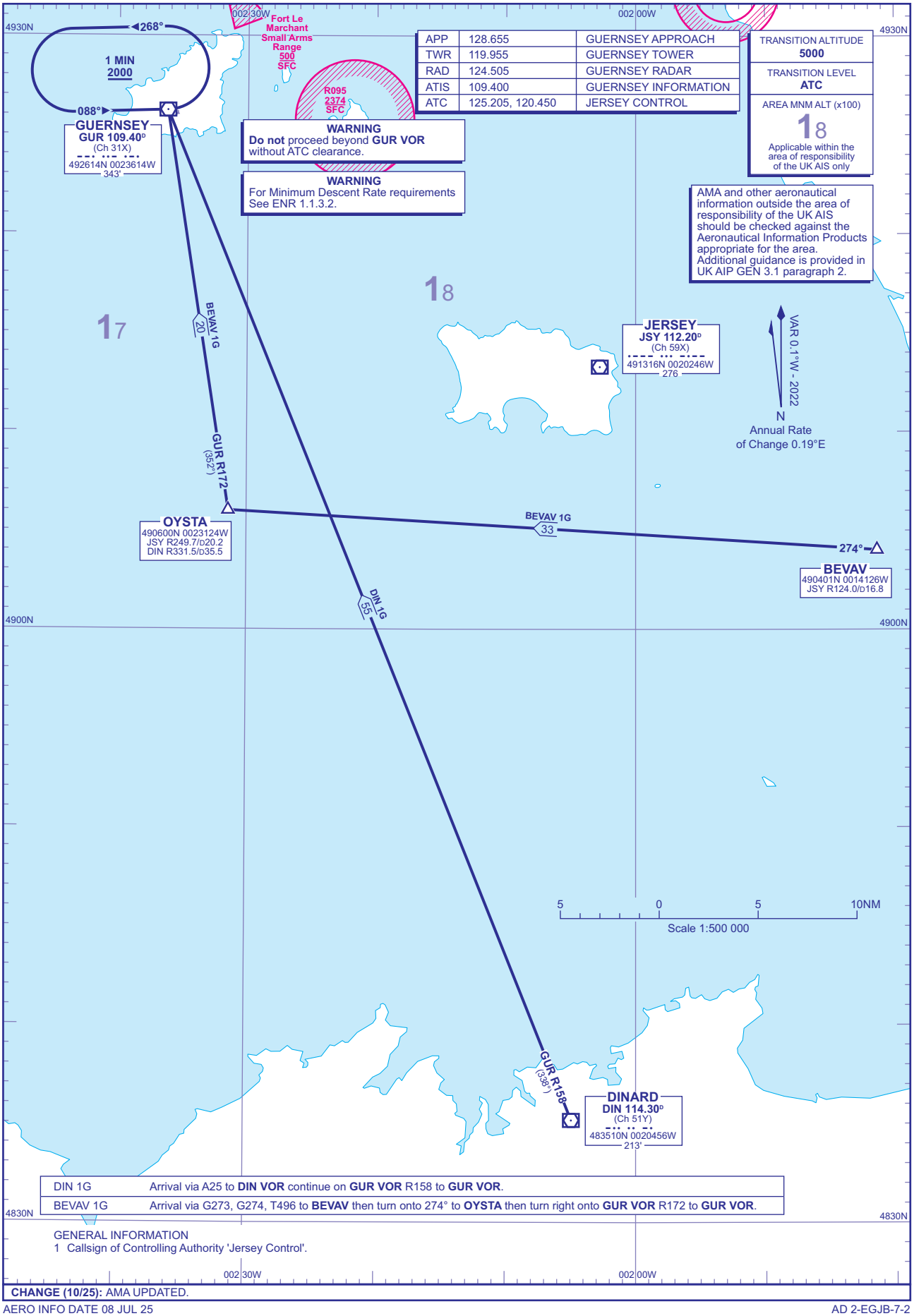
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

GUERNSEY
RWY 09/27
BEVAV 1G DIN 1G



DIN 1G	Arrival via A25 to **DIN VOR** continue on **GUR VOR** R158 to **GUR VOR**.
BEVAV 1G	Arrival via G273, G274, T496 to **BEVAV** then turn onto 274° to **OYSTA** then turn right onto **GUR VOR** R172 to **GUR VOR**.

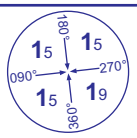
GENERAL INFORMATION
1 Callsign of Controlling Authority 'Jersey Control'.

CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

INSTRUMENT APPROACH CHART - ICAO

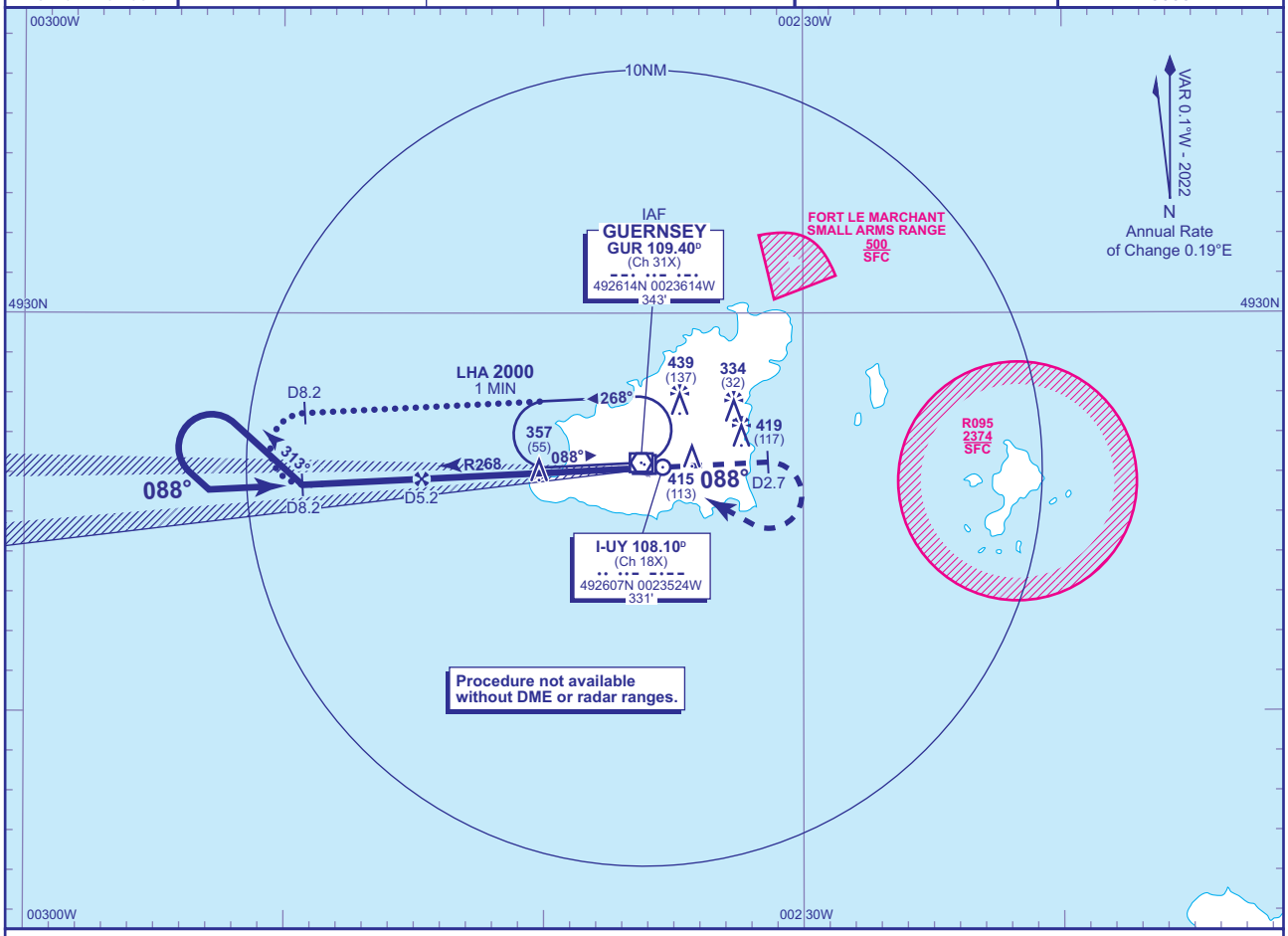
GUERNSEY ILS/DME/VOR RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM VOR GUR

APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	302
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION 439 AMSL (137) (ABOVE THR)	
RAD	124.505	GUERNSEY RADAR		
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC	

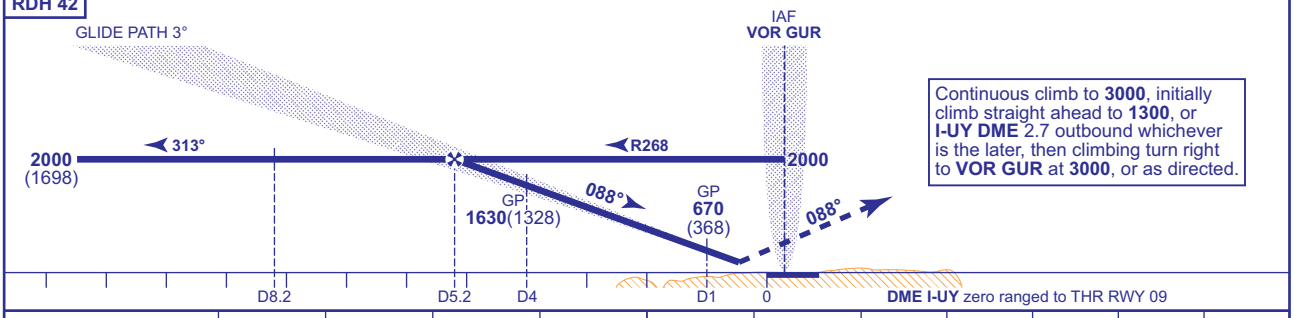
TRANSITION ALTITUDE
5000



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-UY	5	4	3	2	1
ALT(HGT)	**1950**(1648)	**1630**(1328)	**1310**(1008)	**990**(688)	**670**(368)

RDH 42



Continuous climb to **3000**, initially climb straight ahead to **1300**, or **I-UY DME** 2.7 outbound whichever is the later, then climbing turn right to **VOR GUR** at **3000**, or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**466**(164)	**478**(176)	**490**(188)	**503**(201)
VM(C)OCA (OCH AAL)	**Total Area**	**830**(494)	**830**(494)	**930**(594)	**1030**(694)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Arrival at VOR GUR (IAF) at **2000**. Extend the outbound leg of the VOR GUR holding pattern to I-UY DME 8.2 then turn left to establish on LOC. When established, descend on glide path to DA(H).

AIRCRAFT UNABLE TO RECEIVE DME
BASIC PROCEDURE: Inform ATC. Radar ranges will be passed at 8.2NM outbound, as appropriate and at 5.2NM inbound and 2.7NM outbound during missed approach procedure.
ALTERNATIVE PROCEDURE: Radar ranges will be passed at 8.2NM outbound as appropriate then as for basic procedure.

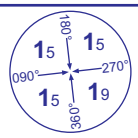
NOTE Aircraft will normally be required to hold not lower then 3000.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE. DME I-UY ELEVATION.

AERO INFO DATE 03 MAY 24
AD 2-EGJB-8-1

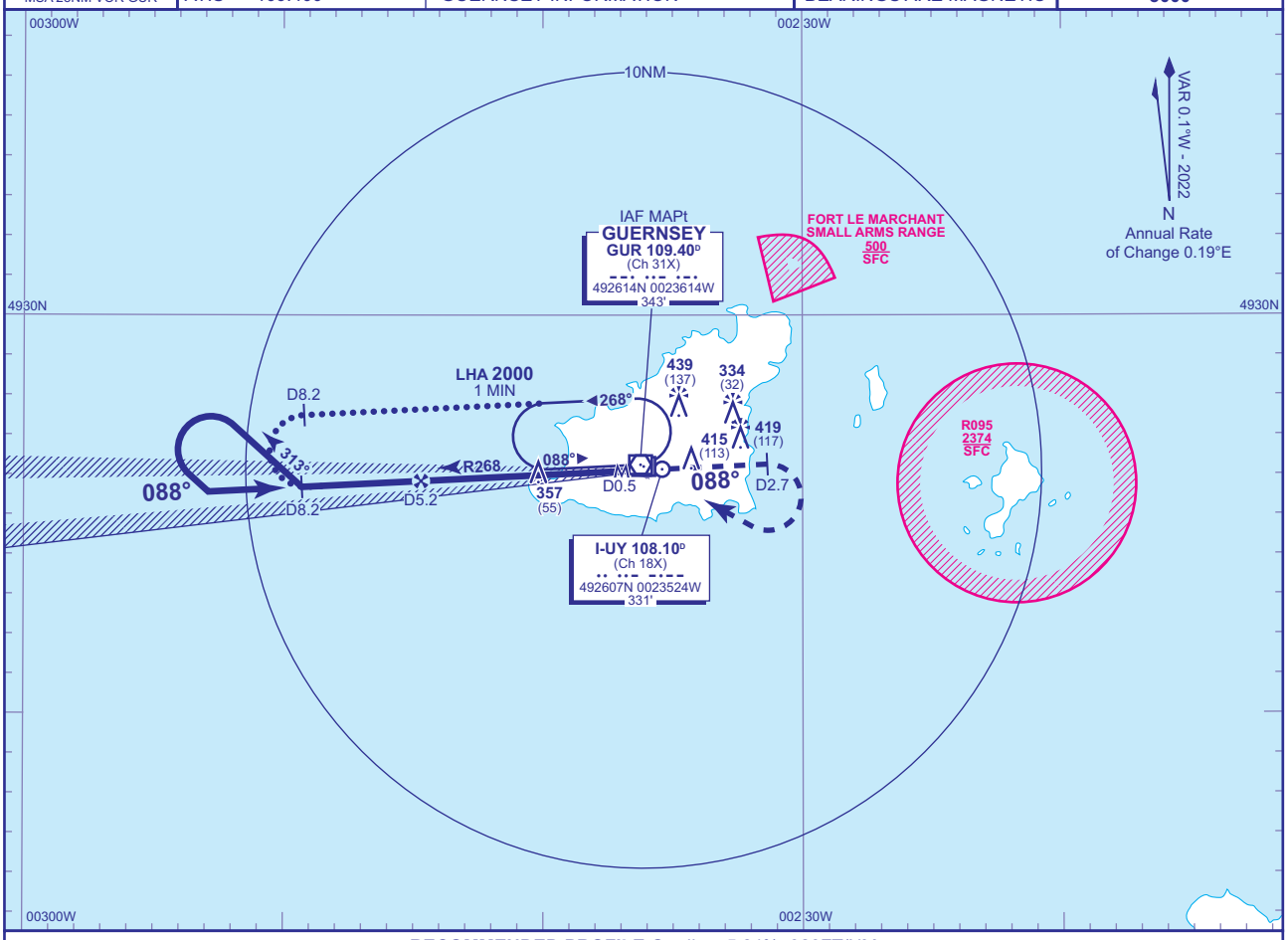
INSTRUMENT APPROACH CHART - ICAO

GUERNSEY LOC/DME/VOR RWY 09
(ACFT CAT A,B,C,D)



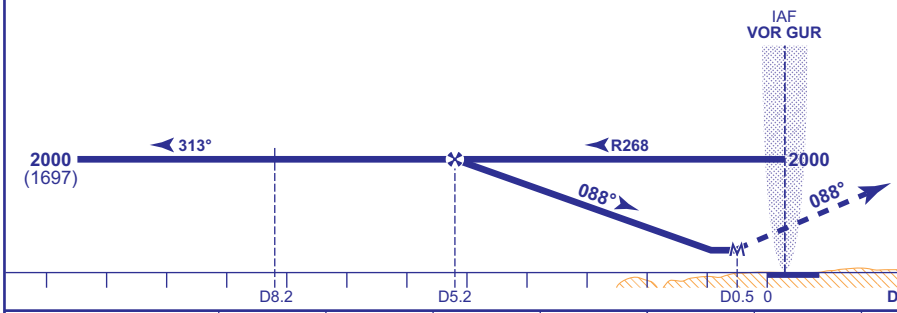
MSA 25NM VOR GUR

APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336	TRANSITION ALTITUDE 5000
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	302	
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION 439 AMSL (137) (ABOVE THR)		
RAD	124.505	GUERNSEY RADAR			
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-UY	5	4	3	2	1
ALT(HGT)	**1950**(1648)	**1630**(1328)	**1310**(1008)	**990**(688)	**670**(368)



MAPt D0.5 I-UY DME
Continuous climb to **3000**, initially climb straight ahead to **1300**, or **I-UY DME** 2.7 outbound whichever is the later, then climbing turn right to **VOR GUR** at **3000**, or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**630**(328)	**630**(328)	**630**(328)	**630**(328)
VM(C)OCA (OCH AAL)	**Total Area**	**830**(494)	**830**(494)	**930**(594)	**1030**(694)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Arrival at VOR GUR at 2000. Extend the outbound leg of the VOR GUR holding pattern to I-UY DME 8.2 then turn left to establish on LOC. When established, descend to MDA(H).

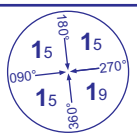
NOTE Aircraft will normally be required to hold not lower then 3000.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE. DME I-UY ELEVATION.

AERO INFO DATE 03 MAY 24

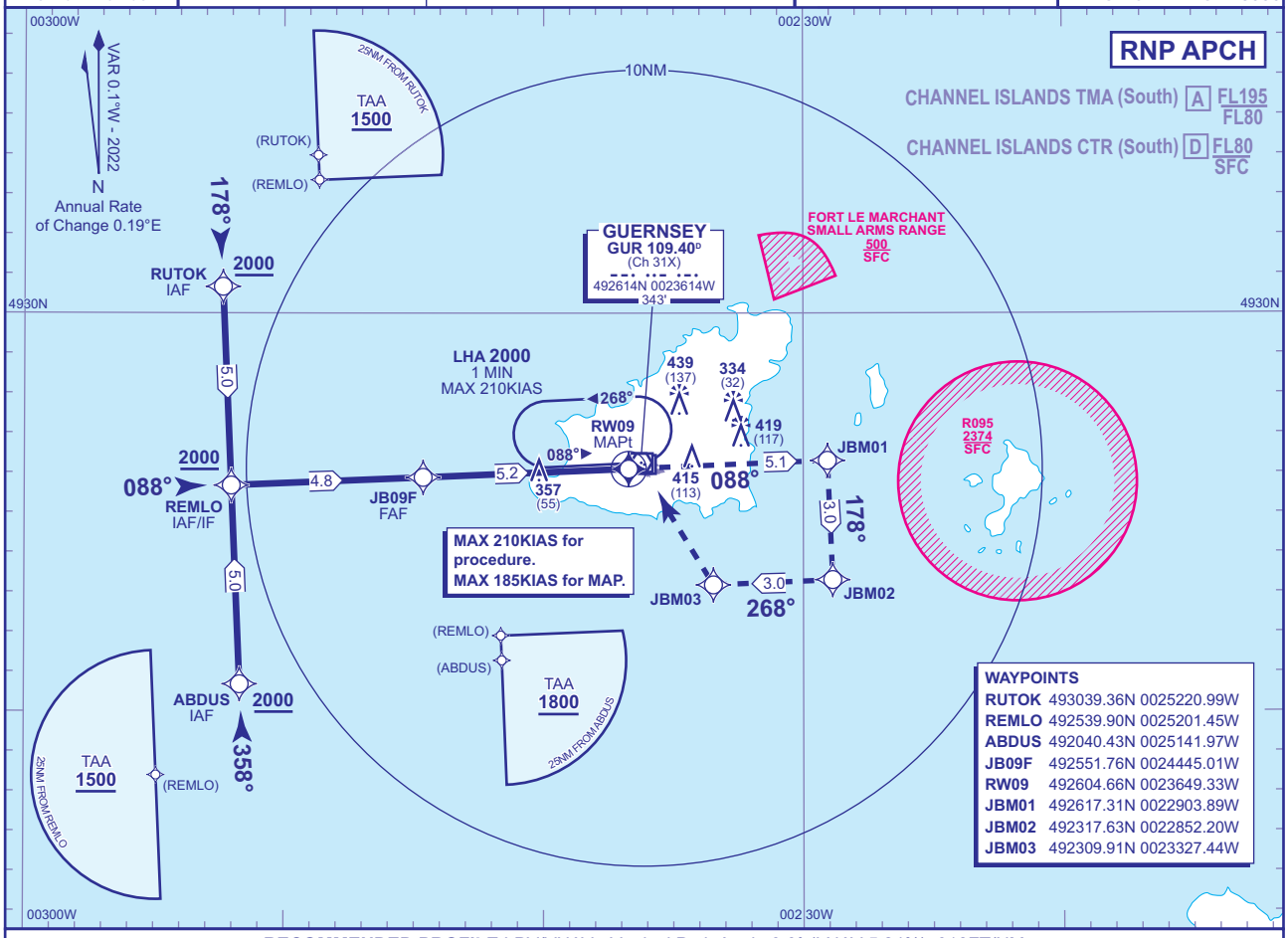
INSTRUMENT APPROACH CHART - ICAO

GUERNSEY
RNP
RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM VOR GUR

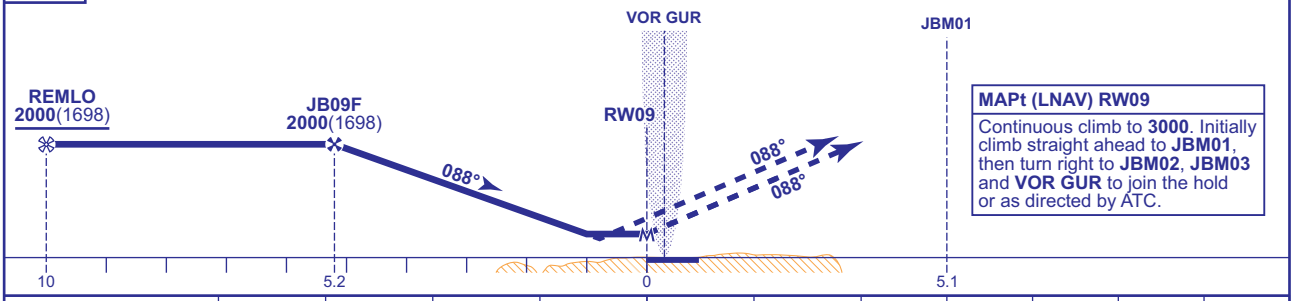
APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336	EGNOS CH 59263 E09A
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	302	MIN TEMP -5°C
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION 439 AMSL (137) (ABOVE THR)		TRANSITION ALTITUDE 5000
RAD	124.505	GUERNSEY RADAR			
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE LPV/VNAV - Vertical Path Angle 3.0° (LNAV 5.24%), 318FT/NM

NM to RW09	5	4	3	2	1
ALT(HGT)	**1940**(1638)	**1630**(1328)	**1310**(1008)	**990**(688)	**670**(368)

TCH 50



MAPt (LNAV) RW09

Continuous climb to **3000**. Initially climb straight ahead to **JBM01**, then turn right to **JBM02**, **JBM03** and **VOR GUR** to join the hold or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	LPV	**502**(200)	**502**(200)	**502**(200)	**502**(200)
	LNAV/VNAV	**600**(298)	**600**(298)	**600**(298)	**600**(298)
	LNAV	**620**(318)	**620**(318)	**620**(318)	**620**(318)
VM(C)OCA (OCH AAL)	Total Area	**740**(404)	**830**(494)	**930**(594)	**1030**(694)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

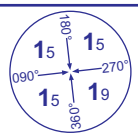
NOTE 1 Pilots should 'Request RNP Approach' on first contact with Guernsey.
2 VOR GUR required for Missed Approach.
3 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE.

AERO INFO DATE 23 APR 24

INSTRUMENT APPROACH CHART - ICAO

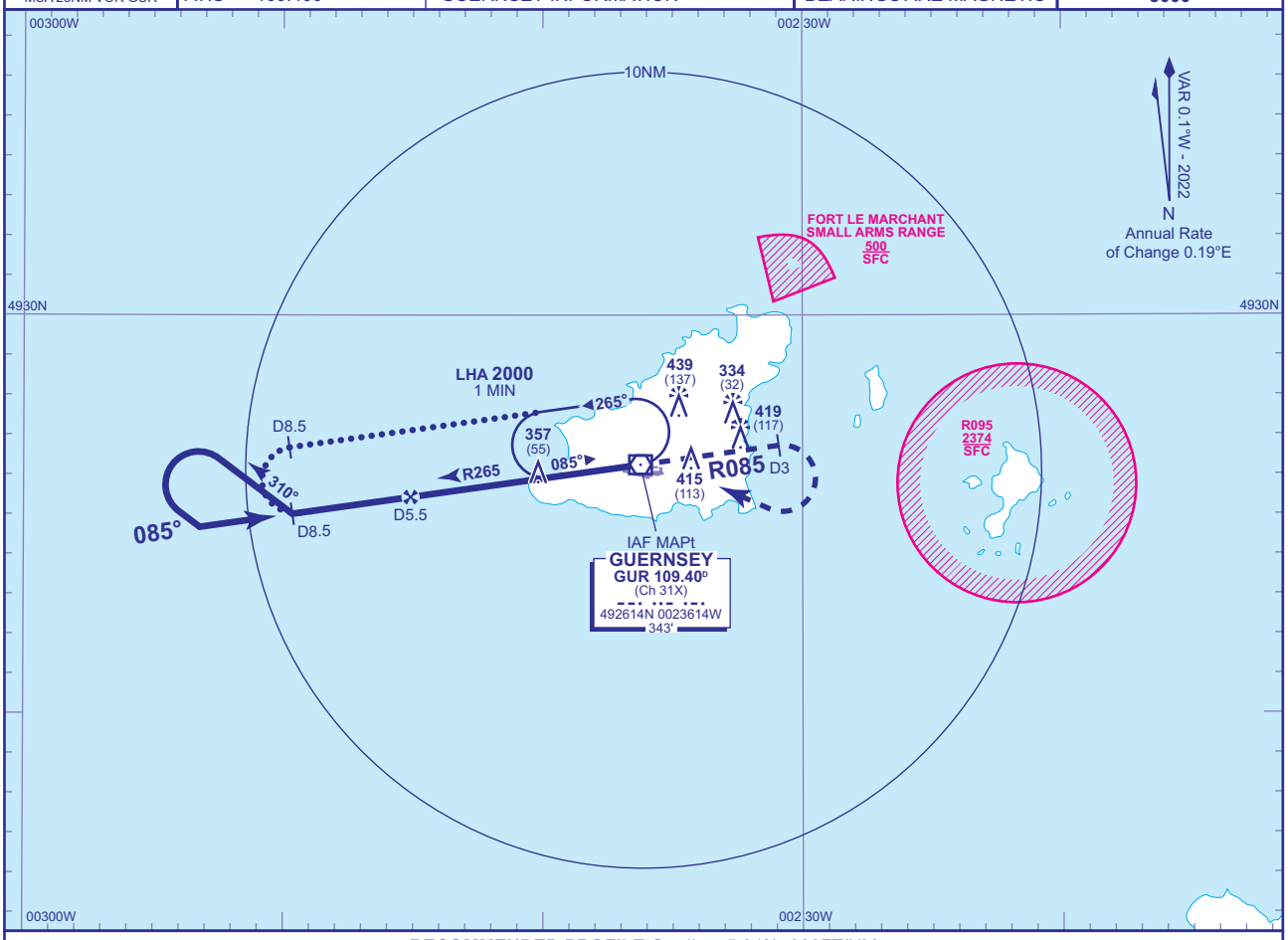
GUERNSEY VOR/DME RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM VOR GUR

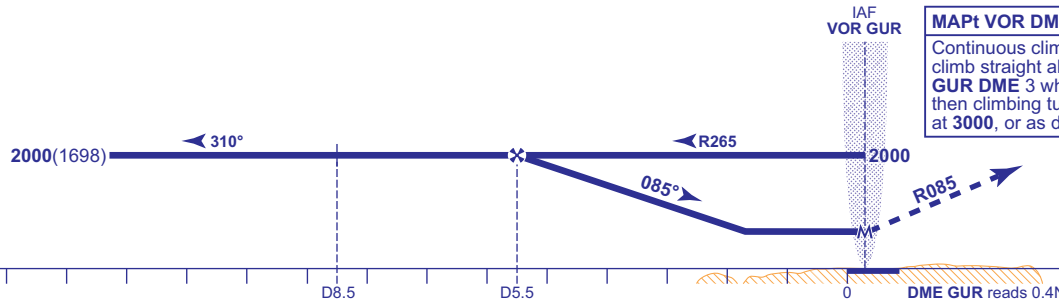
APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336	
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	302	
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION	439 AMSL (137) (ABOVE THR)	
RAD	124.505	GUERNSEY RADAR			
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME GUR	5	4	3	2
ALT(HGT)	**1820**(1518)	**1500**(1198)	**1180**(878)	**860**(558)



MAPt VOR DME GUR
Continuous climb to **3000**, initially climb straight ahead to **1300**, or **GUR DME** 3 whichever is the later, then climbing turn right to **VOR GUR** at **3000**, or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**WITH DME**	**640**(338)	**640**(338)	**640**(338)	**640**(338)
	NO DME	**690**(388)	**690**(388)	**690**(388)	**690**(388)
VM(C)OCA (OCH AAL)	**Total Area**	**830**(494)	**830**(494)	**930**(594)	**1030**(694)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend the outbound leg of the VOR GUR holding pattern to GUR DME 8.5 then turn left to establish on FAT. When established, descend from the FAF GUR DME 5.5 to MDA(H).

AIRCRAFT UNABLE TO RECEIVE DME
BASIC PROCEDURE: As for main procedure with DME except fly outbound for 2 MIN prior to procedure turn right to established on the FAT, descend to MDA(H).
ALTERNATIVE PROCEDURE: As for main procedure with DME except fly outbound leg of racetrack for 2.5 MIN. When established inbound, descend to MDA(H).

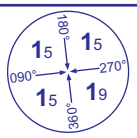
NOTE **1** FAT is offset 4° south from RWY 09 C/L.
2 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE.

AERO INFO DATE 23 APR 24

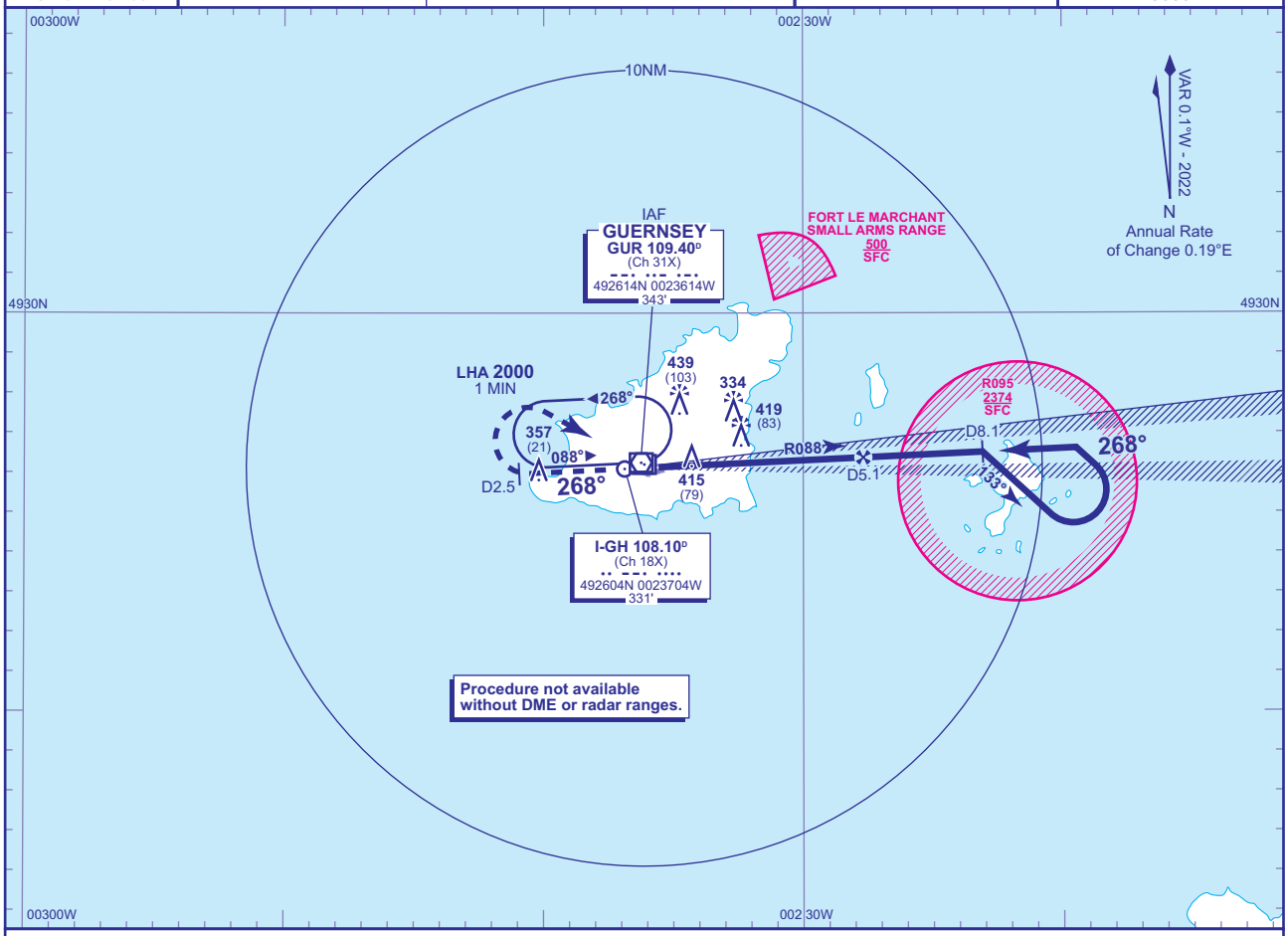
INSTRUMENT APPROACH CHART - ICAO

GUERNSEY ILS/DME/VOR RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM VOR GUR

APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336	TRANSITION ALTITUDE 5000
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	336	
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION 439 AMSL (103) (ABOVE THR)		
RAD	124.505	GUERNSEY RADAR			
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC		

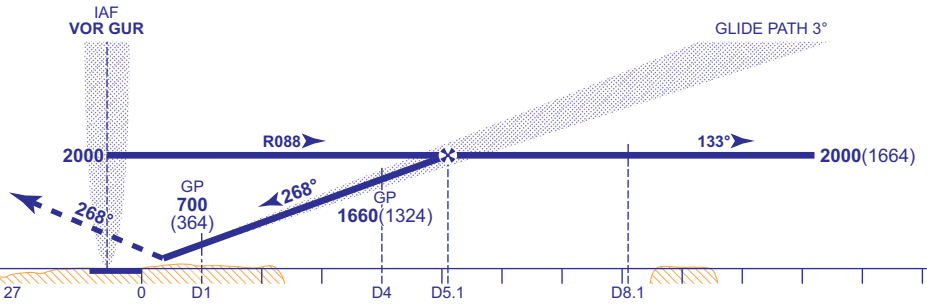


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-GH	5	4	3	2	1
ALT(HGT)	**1980**(1644)	**1660**(1324)	**1340**(1004)	**1020**(684)	**700**(364)

RDH 44

Continuous climb to **3000**, initially climb straight ahead to **2000**, or **I-GH DME** 2.5 whichever is the later, then turn right to **VOR GUR** at **3000**, or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**508**(172)	**516**(180)	**526**(190)	**537**(201)
VM(C)OCA (OCH AAL)	Total Area	**830**(494)	**830**(494)	**930**(594)	**1030**(694)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME
Inform ATC. Radar ranges will be passed at 8.1NM outbound, 5.1NM inbound and 2.5NM outbound during missed approach procedure.

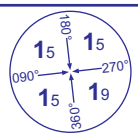
NOTE
1 Authority to penetrate restricted area R095 will be granted by Guernsey ATC prior to start of this procedure.
2 Aircraft will normally be required to hold not lower than 3000.
3 Pilots must not descend on RWY 27 GP until fully established on RWY 27 LOC.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE. DME I-GH ELEVATION.

AERO INFO DATE 03 MAY 24

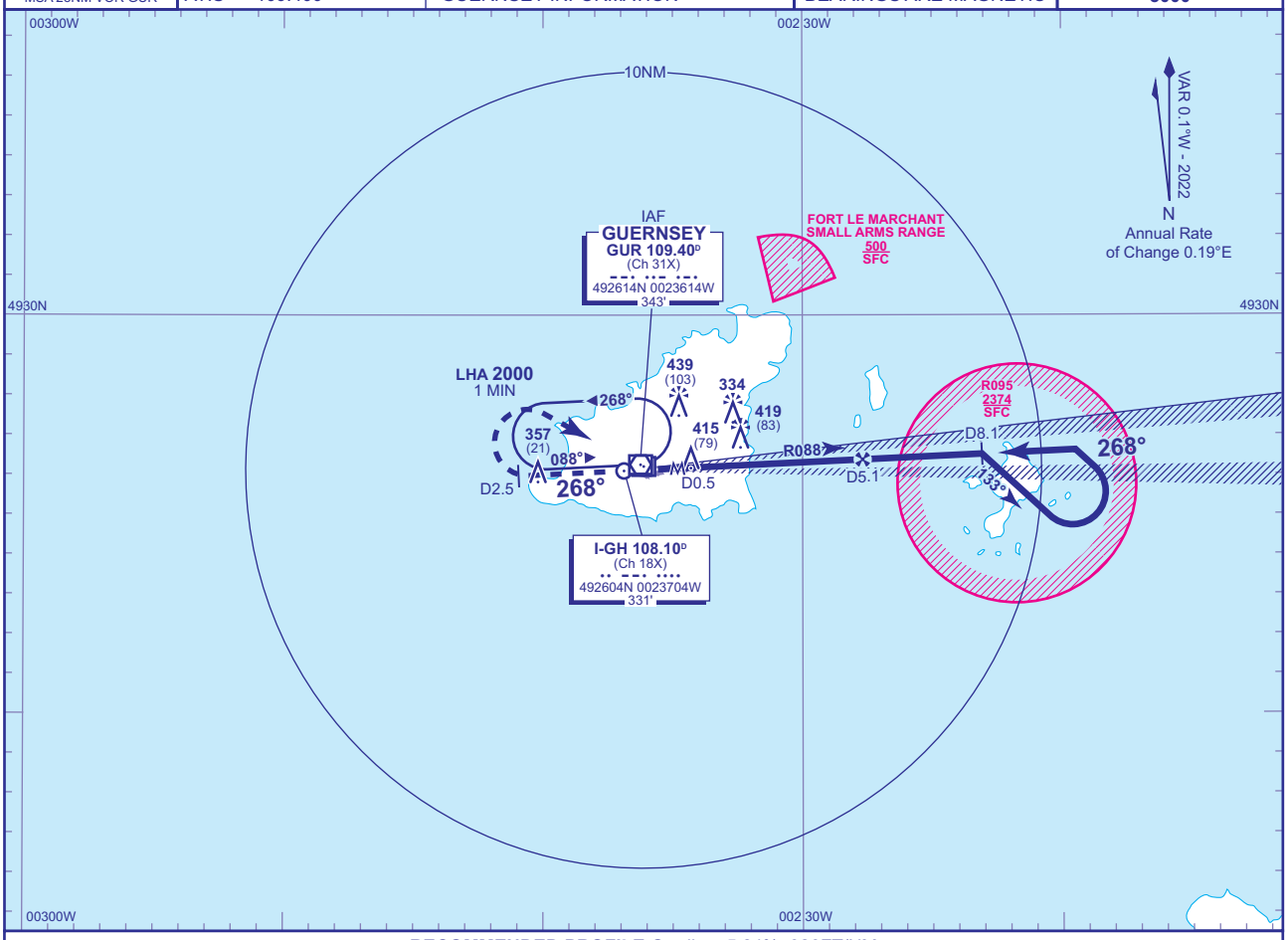
INSTRUMENT APPROACH CHART - ICAO

GUERNSEY LOC/DME/VOR RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM VOR GUR

APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336	TRANSITION ALTITUDE 5000
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	336	
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION 439 AMSL (103) (ABOVE THR)		
RAD	124.505	GUERNSEY RADAR			
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC		

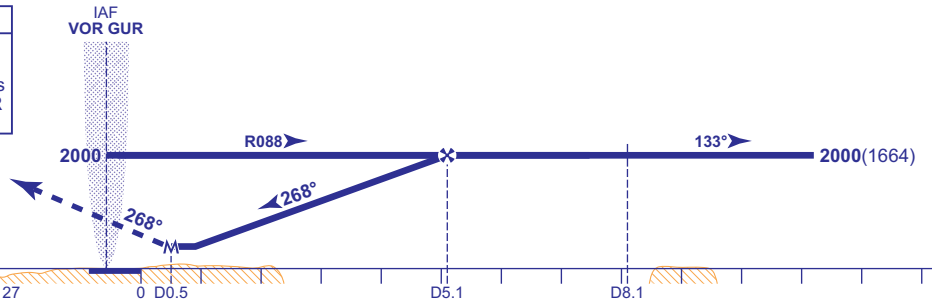


RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-GH	5	4	3	2	1
ALT(HGT)	**1980**(1644)	**1660**(1324)	**1340**(1004)	**1020**(684)	**700**(364)

MAPt D0.5 I-GH

Continuous climb to **3000**, initially climb straight ahead to **2000**, or **I-GH DME** 2.5 outbound whichever is the later, then turn right to **VOR GUR** at **3000**, or as directed.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**670**(334)	**670**(334)	**670**(334)	**670**(334)
VM(C)OCA (OCH AAL)	**Total Area**	**830**(494)	**830**(494)	**930**(594)	**1030**(694)

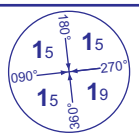
Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE **1** Authority to penetrate restricted area R095 will be granted by Guernsey ATC prior to start of this procedure.
2 Aircraft will normally be required to hold not lower than 3000.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE. DME I-GH ELEVATION.

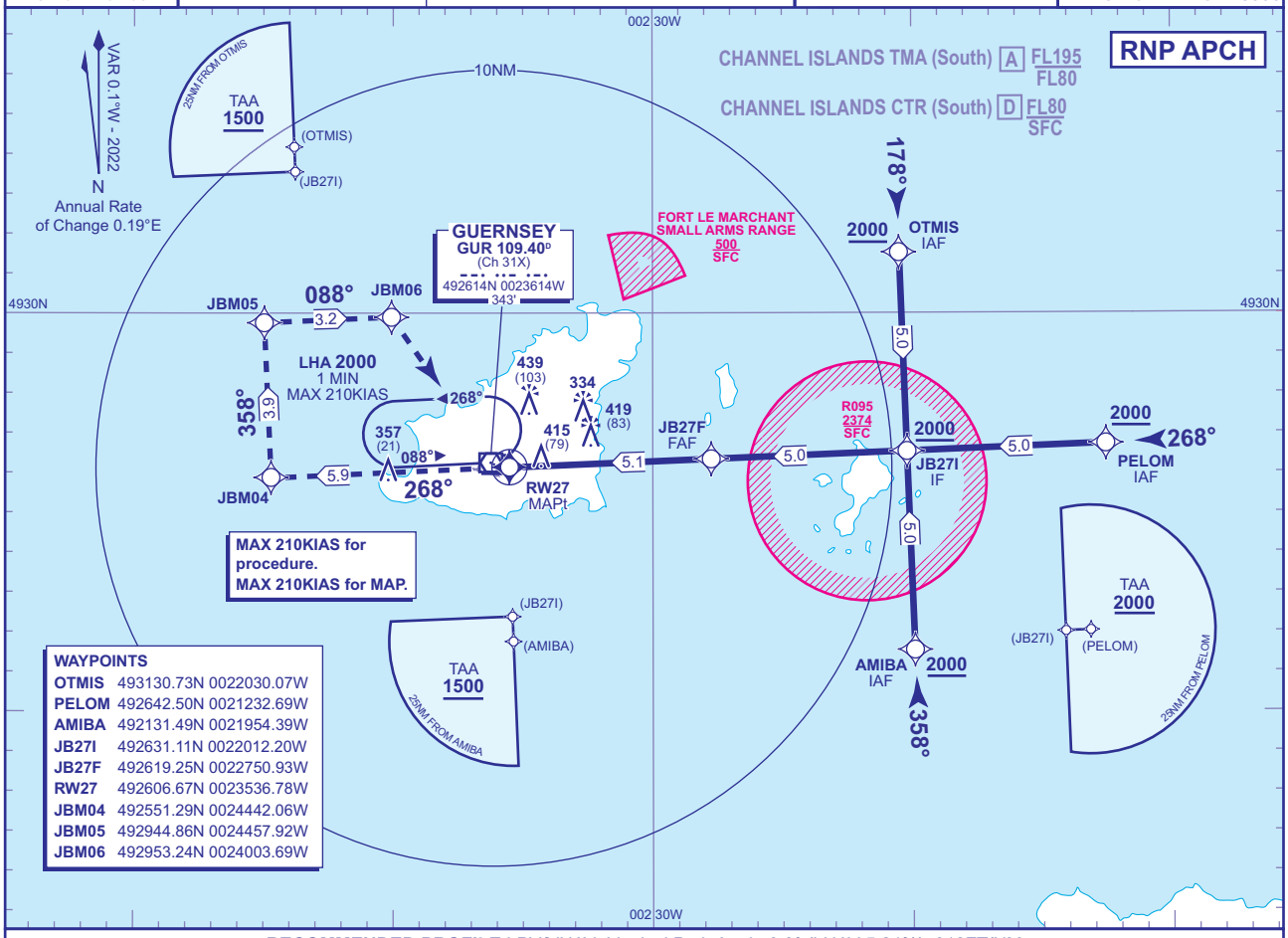
INSTRUMENT APPROACH CHART - ICAO

GUERNSEY
RNP
RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM VOR GUR

APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336	EGNOS CH 65543 E27A
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	336	MIN TEMP -5°C
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION 439 AMSL (103) (ABOVE THR)		TRANSITION ALTITUDE 5000
RAD	124.505	GUERNSEY RADAR			
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC		



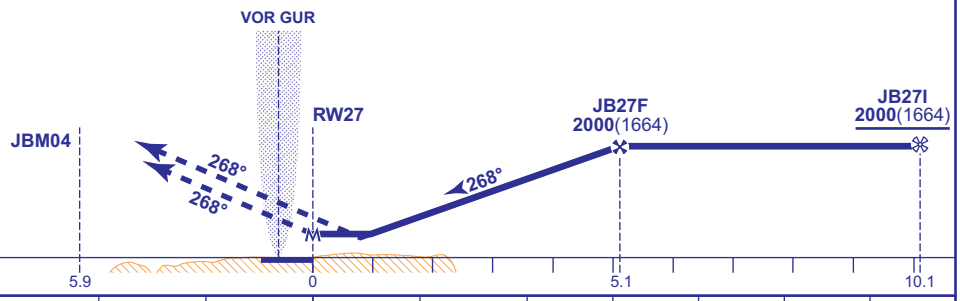
RECOMMENDED PROFILE LPV/VNAV -Vertical Path Angle 3.0° (LNAV 5.24%), 318FT/NM

NM to RW27	5	4	3	2	1
ALT(HGT)	**1980**(1644)	**1660**(1324)	**1340**(1004)	**1020**(684)	**700**(364)

TCH 50

MAPt (LNAV) RW27

Continuous climb to **3000**. Initially climb straight ahead to **JBM04**, then turn right to **JBM05**, **JBM06** and **VOR GUR** to join the hold or as directed by ATC



Aircraft Category		A	B	C	D
OCA (OCH)	LPV	**536**(200)	**536**(200)	**536**(200)	**536**(200)
	LNAV/VNAV	**660**(324)	**660**(324)	**660**(324)	**660**(324)
	LNAV	**680**(344)	**680**(344)	**680**(344)	**680**(344)
VM(C)OCA (OCH AAL)	Total Area	**740**(404)	**830**(494)	**930**(594)	**1030**(694)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

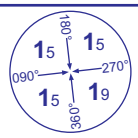
NOTE 1 Pilots should 'Request RNP Approach' on first contact with Guernsey.
2 VOR GUR required for Missed Approach.
3 Authority to penetrate restricted area R095 will be granted by Guernsey ATC prior to start of procedure.
4 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE.

AERO INFO DATE 23 APR 24

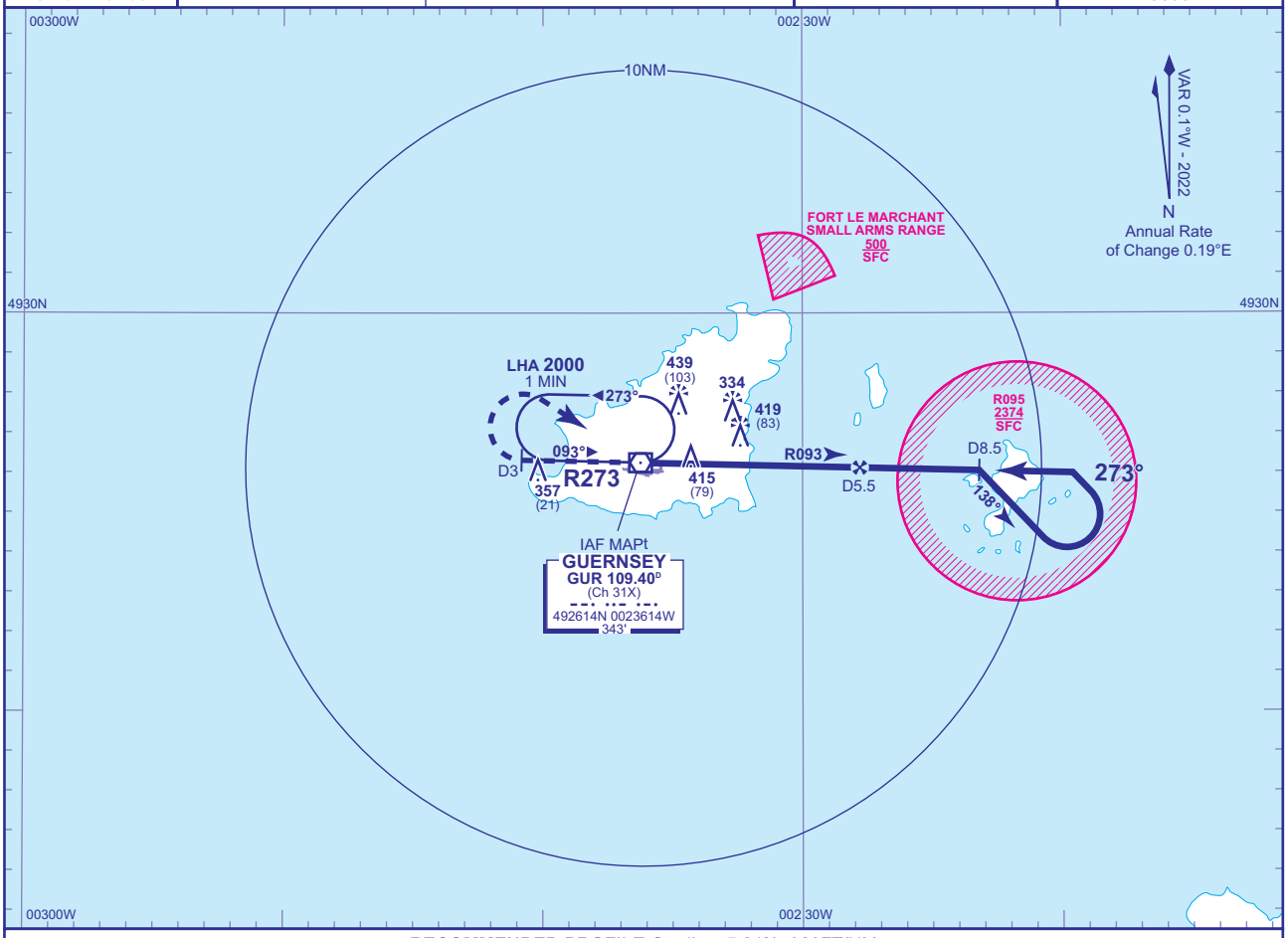
INSTRUMENT APPROACH CHART - ICAO

GUERNSEY VOR/DME RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM VOR GUR

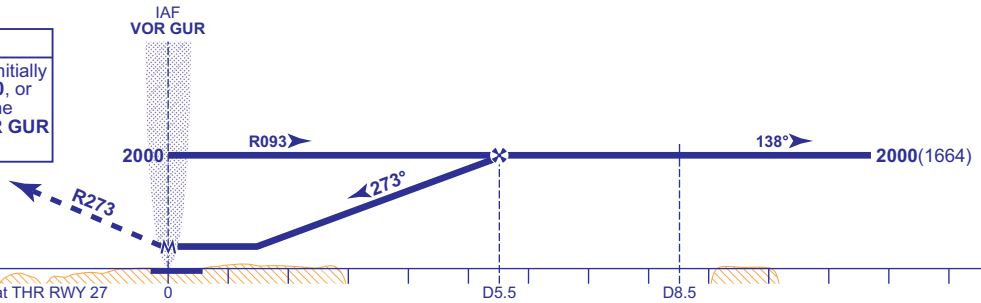
APP	128.655	GUERNSEY APPROACH	AD ELEVATION	336	TRANSITION ALTITUDE 5000
TWR	119.955	GUERNSEY TOWER	THR ELEVATION	336	
GMC	121.805	GUERNSEY GROUND	OBSTACLE ELEVATION 439 AMSL (103) (ABOVE THR)		
RAD	124.505	GUERNSEY RADAR			
ATIS	109.400	GUERNSEY INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME GUR	5	4	3	2
ALT(HGT)	**1850**(1514)	**1530**(1194)	**1210**(874)	**890**(554)

MAPt VOR DME GUR
Continuous climb to **3000**, initially climb straight ahead to **2000**, or **GUR DME** 3 whichever is the later, then turn right to **VOR GUR** at **3000**, or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	WITH DME	680(344)	680(344)	680(344)	680(344)		FT/MIN	850	740	640	530	420
	NO DME	730(394)	730(394)	730(394)	730(394)							
VM(C)OCA (OCH AAL)	Total Area	830(494)	830(494)	930(594)	1030(694)							

AIRCRAFT UNABLE TO RECEIVE DME
As for main procedure with DME except fly outbound for 2 MIN prior to procedure turn right to establish on FAT. When established, descend to MDH.

NOTE 1 FAT offset 4° south from RWY 27 C/L.
2 Authority to penetrate restricted area R095 will be granted by Guernsey ATC prior to start of this procedure.
3 Aircraft will normally be required to hold not lower than 3000.

CHANGE (7/24): MAG VAR. ANNUAL RATE OF CHANGE.

AERO INFO DATE 23 APR 24
AD 2-EGJB-8-8

Instrument Approach Procedure Coding Tables

Guernsey RNP RWY 09 - Instrument Approach Procedure via ABDUS

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	ABDUS	N	-	-	2000	210	492040.43N 0025141.97W	IAF / D11.5
R09R	002	TF	REMLO	N	358° (357.6°)	RIGHT	2000	-	492539.90N 0025201.45W	IF / 10.0NM
R09R	003	TF	JB09F	N	088° (087.6°)	-	2000	-	492551.76N 0024445.01W	FAF / 5.2NM
R09R	004	TF	RW09	Y	088° (087.6°)	-	-	-	492604.66N 0023649.33W	MAPt
R09R	005	CF	JBM01	N	088° (087.6°)	RIGHT	-	185	492617.31N 0022903.89W	-
R09R	006	TF	JBM02	N	178° (177.6°)	RIGHT	-	185	492317.63N 0022852.20W	-
R09R	007	TF	JBM03	N	268° (267.6°)	RIGHT	-	185	492309.91N 0023327.44W	-
R09R	008	DF	VOR GUR	N	-	LEFT	3000	-	-	Conventional Hold

Guernsey RNP RWY 09 - Instrument Approach Procedure via REMLO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09C	002	IF	REMLO	N	-	-	2000	-	492539.90N 0025201.45W	IAF / IF / 10.0NM
R09C	003	TF	JB09F	N	088° (087.6°)	-	2000	-	492551.76N 0024445.01W	FAF / 5.2NM
R09C	004	TF	RW09	Y	088° (087.6°)	-	-	-	492604.66N 0023649.33W	MAPt
R09C	005	CF	JBM01	N	088° (087.6°)	RIGHT	-	185	492617.31N 0022903.89W	-
R09C	006	TF	JBM02	N	178° (177.6°)	RIGHT	-	185	492317.63N 0022852.20W	-
R09C	007	TF	JBM03	N	268° (267.6°)	RIGHT	-	185	492309.91N 0023327.44W	-
R09C	008	DF	VOR GUR	N	-	LEFT	3000	-	-	Conventional Hold

Guernsey RNP RWY 09 - Instrument Approach Procedure via RUTOK

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09L	001	IF	RUTOK	N	-	-	2000	210	493039.36N 0025220.99W	IAF / D11.4
R09L	002	TF	REMLO	N	178° (177.6°)	LEFT	2000	-	492539.90N 0025201.45W	IF / 10.0NM
R09L	003	TF	JB09F	N	088° (087.6°)	-	2000	-	492551.76N 0024445.01W	FAF / 5.2NM
R09L	004	TF	RW09	Y	088° (087.6°)	-	-	-	492604.66N 0023649.33W	MAPt
R09L	005	CF	JBM01	N	088° (087.6°)	RIGHT	-	185	492617.31N 0022903.89W	-
R09L	006	TF	JBM02	N	178° (177.6°)	RIGHT	-	185	492317.63N 0022852.20W	-
R09L	007	TF	JBM03	N	268° (267.6°)	RIGHT	-	185	492309.91N 0023327.44W	-
R09L	008	DF	VOR GUR	N	-	LEFT	3000	-	-	Conventional Hold

CHANGE (11/20): RNP REFERENCES ADDED. LEVEL CONSTRAINT AT JB09F. DESIGNATORS.
AERO INFO DATE 03 JUL 20

SBAS FAS Data Block Coding Data

Guernsey RNP RWY 09

Input Data	
Parameters	**Values**
Operation Type	0
SBAS Provider	1
Airport Identifier	EGJB
Runway	09
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E09A
LTP/FTP Latitude	492604.6625N
LTP/FTP Longitude	0023649.3270W
LTP/FTP Ellipsoidal Height (metres)	141.3
FPAP Latitude	492606.9925N
Delta FPAP Latitude (seconds)	2.3300
FPAP Longitude	0023525.2755W
Delta FPAP Longitude (seconds)	84.0515
Threshold Crossing Height	50.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	232
HAL (metres)	40.0
VAL (metres)	35.0

Output Data	
Data Block	10 02 0A 07 05 09 00 00 01 39 30 05 ED 0C 37 15 A2 D9 E0 FE 85 19 34 12 00 A7 90 02 F4 01 2C 01 64 1D C8 AF 1D 58 D4 DB
Calculated CRC Value	1D58D4DB

Additional Data	
Parameters	**Values**
ICAO Code	EG
LTP/FTP Orthometric Height (metres)	92.1
FPAP Orthometric Height (metres)	102.4

CHANGE (11/20): RNP REFERENCES ADDED.

Instrument Approach Procedure Coding Tables

Guernsey RNP RWY 27 - Instrument Approach Procedure via OTMIS

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27R	001	IF	OTMIS	N	-	-	2000	210	493130.73N 0022030.07W	IAF / D11.5
R27R	002	TF	JB27I	N	178° (177.8°)	RIGHT	2000	-	492631.11N 0022012.20W	IF / 10.1NM
R27R	003	TF	JB27F	N	268° (267.8°)	-	2000	-	492619.25N 0022750.93W	FAF / 5.1NM
R27R	004	TF	RW27	Y	268° (267.7°)	-	-	-	492606.67N 0023536.78W	MAPt
R27R	005	CF	JBM04	N	268° (267.6°)	RIGHT	-	210	492551.29N 0024442.06W	-
R27R	006	TF	JBM05	N	358° (357.5°)	RIGHT	-	210	492944.86N 0024457.92W	-
R27R	007	TF	JBM06	N	088° (087.5°)	RIGHT	-	210	492953.24N 0024003.69W	-
R27R	008	DF	VOR GUR	N	-	LEFT	3000	-	-	Conventional Hold

Guernsey RNP RWY 27 - Instrument Approach Procedure via PELOM

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27C	001	IF	PELOM	N	-	-	2000	210	492642.50N 0021232.69W	IAF / D15.5
R27C	002	TF	JB27I	N	268° (267.9°)	-	2000	-	492631.11N 0022012.20W	IF / 10.1NM
R27C	003	TF	JB27F	N	268° (267.8°)	-	2000	-	492619.25N 0022750.93W	FAF / 5.1NM
R27C	004	TF	RW27	Y	268° (267.7°)	-	-	-	492606.67N 0023536.78W	MAPt
R27C	005	CF	JBM04	N	268° (267.6°)	RIGHT	-	210	492551.29N 0024442.06W	-
R27C	006	TF	JBM05	N	358° (357.5°)	RIGHT	-	210	492944.86N 0024457.92W	-
R27C	007	TF	JBM06	N	088° (087.5°)	RIGHT	-	210	492953.24N 0024003.69W	-
R27C	008	DF	VOR GUR	N	-	LEFT	3000	-	-	Conventional Hold

Guernsey RNP RWY 27 - Instrument Approach Procedure via AMIBA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	AMIBA	N	-	-	2000	210	492131.49N 0021954.39W	IAF / D11.7
R27L	002	TF	JB27I	N	358° (357.8°)	LEFT	2000	-	492631.11N 0022012.20W	IF / 10.1NM
R27L	003	TF	JB27F	N	268° (267.8°)	-	2000	-	492619.25N 0022750.93W	FAF / 5.1NM
R27L	004	TF	RW27	Y	268° (267.7°)	-	-	-	492606.67N 0023536.78W	MAPt
R27L	005	CF	JBM04	N	268° (267.6°)	RIGHT	-	210	492551.29N 0024442.06W	-
R27L	006	TF	JBM05	N	358° (357.5°)	RIGHT	-	210	492944.86N 0024457.92W	-
R27L	007	TF	JBM06	N	088° (087.5°)	RIGHT	-	210	492953.24N 0024003.69W	-
R27L	008	DF	VOR GUR	N	-	LEFT	3000	-	-	Conventional Hold

CHANGE (7/22): RW27 COORDINATES REVISED.

AERO INFO DATE 30 MAR 22

SBAS FAS Data Block Coding Data

Guernsey RNP RWY 27

Input Data	
Parameters	**Values**
Operation Type	0
SBAS Provider	1
Airport Identifier	EGJB
Runway	27
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E27A
LTP/FTP Latitude	492606.6745N
LTP/FTP Longitude	0023536.7815W
LTP/FTP Ellipsoidal Height (metres)	151.7
FPAP Latitude	492604.3420N
Delta FPAP Latitude (seconds)	-2.3325
FPAP Longitude	0023700.8330W
Delta FPAP Longitude (seconds)	-84.0515
Threshold Crossing Height	50.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	232
HAL (metres)	40.0
VAL (metres)	35.0

Output Data	
Data Block	10 02 0A 07 05 1B 00 00 01 37 32 05 A5 1C 37 15 65 10 E3 FE ED 19 C7 ED FF 59 6F FD F4 01 2C 01 64 1D C8 AF 16 E9 55 EA
Calculated CRC Value	16E955EA

Additional Data	
Parameters	**Values**
ICAO Code	EG
LTP/FTP Orthometric Height (metres)	102.5
FPAP Orthometric Height (metres)	92.1

CHANGE (11/20): RNP REFERENCES ADDED.
AERO INFO DATE 03 JUL 20

EGFE — HAVERFORDWEST

EGFE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGFE — HAVERFORDWEST

EGFE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515000N Long: 0045739W Mid-point of Runway 03/21.
2	Direction and distance from city	2 NM N of Haverfordwest.
3	Elevation / Reference temperature / Mean Low Temperature	160 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	178 FT
5	Magnetic Variation / Annual Change	0.34°W (2027) / 0.19°E
6	AD Administration Address Telephone E-mail address Web address	HAVERFORDWEST AIRPORT LTD Haverfordwest Aerodrome, Fishguard Road, Haverfordwest, Pembrokeshire, SA62 4BN. 01437-765283 PPR (Aerodrome) tower@hawairport.co.uk www.hawairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Refer also to AD 2.20 Airport Regulations.

EGFE AD 2.3 OPERATIONAL HOURS

1	AD Administration	0830-1700 (0730-1600). H24 with prior arrangement.
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours and by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	PPR on website: www.hawairport.co.uk

EGFE AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL, F34 W80, W100.
3	Fuelling facilities/capacity	AVGAS 100LL self-service refuelling using credit card. AVTUR Jet A-1 bowser with over wing and pressure refuelling capability. AVGAS 100LL mobile bowser. AVTUR 100LL mobile bowser.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Available with prior notice with the tower.
6	Repair facilities for visiting aircraft	
7	Remarks	

EGFE AD 2.5 PASSENGER FACILITIES

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EGFE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 1 Mon-Fri. Category 2 available on request. Category 3 remission can be applied when the aerodrome is providing Category 2 cover.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGFE AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGFE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON A Surface: Asphalt APRON B Surface: Concrete
2	Taxiway width, surface and strength	Taxiway A: 15 M Surface: Asphalt Taxiway B: 10.5 M Surface: Asphalt Taxiway C: 15 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	Taxiway B - 45 M available for Category C aircraft. Taxiway C - Currently not in use.

EGFE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1 and 2 are located on Apron B led by yellow centre-lines from Taxiway B.
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Lit wind direction indicator at 514957.20N 0045751.77W

EGFE AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFE5208) 27/APPROACH 09/ TAKE-OFF	TREE	515006.43N 0045712.57W	184 FT	42 FT	No	
(EGFE1037) 09/APPROACH 27/ TAKE-OFF	MOBILE OBST	515001.54N 0045817.91W	184 FT	17 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFE5340)	MAST	515357.13N 0045159.27W	1149 FT	528 FT	Yes Red	
(EGFE6859)	WINDSLEEVE	514957.20N 0045751.77W	175 FT	34 FT	Yes Red	
(EGFE1953)	DME	514955.22N 0045812.42W	201 FT	43 FT	Yes	

EGFE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGFE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
03	029.70°	1486 x 45 M	RWY surface: Asphalt PCN 41/F/C/W/T	514944.81N 0045752.95W 178.0 FT	THR 141.1 FT	
21	209.71°	1486 x 45 M	RWY surface: Asphalt PCN 41/F/C/W/T	515014.10N 0045725.99W 178.0 FT	THR 147.0 FT	
09	087.53°	1035 x 46 M	RWY surface: Asphalt PCN 7.5/F/C/W/T	515003.07N 0045802.25W 178.1 FT	THR 147.9 FT	
27	267.54°	1035 x 46 M	RWY surface: Asphalt PCN 7.5/F/C/W/T	515003.89N 0045731.43W 178.0 FT	THR 137.6 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
		1547 x 150 M				RWY 03 Landing threshold displaced by 225 M.
		1547 x 150 M				RWY 21 Landing threshold displaced by 219 M.
		1125 x 101 M				RWY 09 Landing threshold displaced by 237 M.
		1125 x 101 M				RWY 27 Landing threshold displaced by 207 M.

EGFE AD 2.13 DECLARED DISTANCES

Runway designator	**TORA**	**TODA**	**ASDA**	**LDA**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
03	1199 M	1199 M	1199 M	1202 M	
21	1199 M	1199 M	1199 M	1267 M	

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	828 M	828 M	1035 M	798 M	
27	798 M	798 M	1005 M	798 M	

EGFE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03		Light intensity low	APAPI Left/3.5° 15 FT			Omni-directional Light intensity low			
21		Light intensity low	APAPI Left/3.5° 15 FT			Omni-directional Light intensity low			

EGFE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 514957.11N 0045751.74W Flashing Green 'HW'.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 514953.74N 0045806.76W (unlit) - 514952.89N 0045806.99W (unlit).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGFE AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF 1: 514955.20N 0045801.14W, 178.0 FT TLOF 2: 514957.01N 0045802.16W, 178.0 FT
2	TLOF and/or FATO elevation	TLOF 1: 145.9 FT TLOF 2: 147.5 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGFE AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
HAVERFORDWEST ATZ A circle, 2 NM radius, centred at 515000N 0045739W on longest notified runway (03/ 21)	Upper limit: 2000 FT AGL Lower limit: SFC	G	HAVERFORDWEST RADIO English			

EGFE AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	HAVERFORDWEST RADIO	123.605 A/G frequency. DOC 20 NM/ 10,000 FT.			0830-1700 (0730-1600). H24 with prior arrangement.	ATZ hours coincident with Approach hours, but not by arrangement.

EGFE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGFE AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) No non-radio aircraft.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Microlight flying takes place on the aerodrome.
b) The intersection of Runways 03/21 and 09/27 is liable to flooding during and after heavy rain.
c) Hills rising to 259 FT AMSL within 2 NM to the east, rising to 276 FT AMSL within 1.5 NM to the northeast. and rising to 583 FT AMSL within 3.5 NM to the northwest.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

a) Runways 03 and 21 are visual runways but have non-precision runway markings.

7 TRAINING

Not applicable.

EGFE AD 2.21 NOISE ABATEMENT PROCEDURES

a) Avoid local riding stables and residences north of Runway 09/27 and maintain circuit position on downwind leg.

EGFE AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit height 1000 FT QFE.
b) All aircraft to operate in the left hand circuit.

EGFE AD 2.23 ADDITIONAL INFORMATION

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EGFE AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGFE-2-1

EGFE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

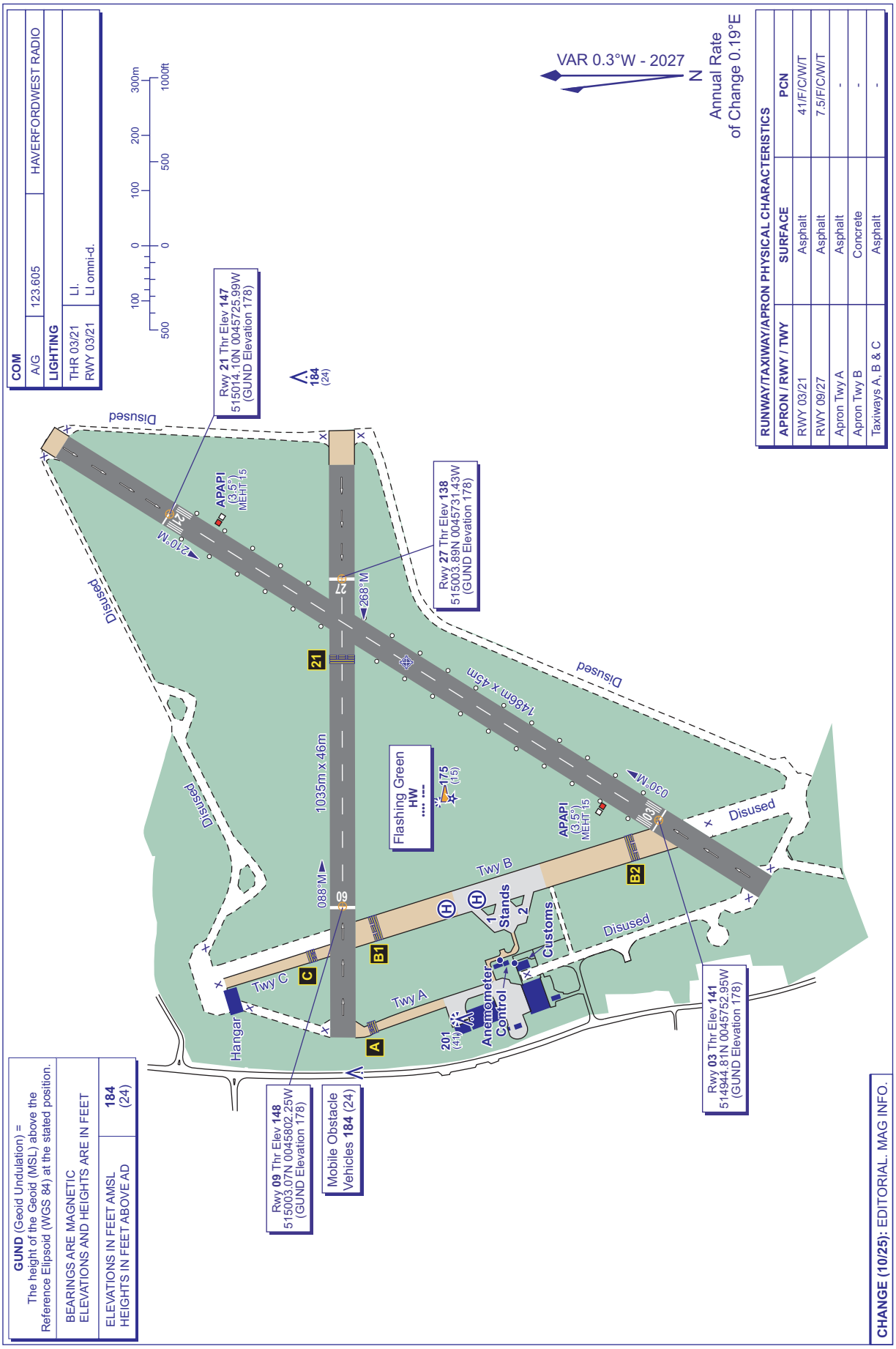
Not applicable

AERODROME CHART - ICAO

HAVERFORDWEST EGFE

AD ELEV 160FT

ARP 515000N 0045739W



AERO INFO DATE 21 JUL 25

AD 2-EGFE-2-1

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EGNR — HAWARDEN

EGNR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNR — HAWARDEN

EGNR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 531041N Long: 0025840W Centre of Runway 04/22
2	Direction and distance from city	3.5 NM WSW of Chester.
3	Elevation / Reference temperature / Mean Low Temperature	45 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	173 FT
5	Magnetic Variation / Annual Change	0.22°E (2027) / 0.19°E
6	AD Administration Address Telephone Telefax E-mail address	AIRBUS OPERATIONS LTD. Hawarden Airport, Broughton, Chester, N Wales, CH4 0DR. 01244-522012 (ATC) 01244-523035 atcopshawarden@airbus.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All calls to ATC will be recorded.

EGNR AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0800-2100 (0700-2000); Sat, Sun & PH 0830-1800 (0730-1700).
2	Customs and immigration	By arrangement. PPR 24 hours
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours. By prior arrangement.
9	Handling	As AD hours. By prior arrangement.
10	Security	As AD hours. By prior arrangement.
11	De-icing	As AD hours. By prior arrangement.
12	Remarks	This aerodrome is PPR. Additional activity outside published hours by NOTAM.

EGNR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, SAF (Sustainable Aviation Fuel) and AVGAS 100LL.
3	Fuelling facilities/capacity	AVGAS: Fixed pump. AVTUR: Bowser (pressure and overwing).
4	De-icing facilities	Mobile rig by prior arrangement.
5	Hangar space for visiting aircraft	On Apron N, limited for light aircraft (by prior arrangement).
6	Repair facilities for visiting aircraft	Repair facilities for visiting aircraft limited to light aircraft on Apron N and C by prior arrangement.
7	Remarks	

EGNR AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity.
2	Restaurants	Diner on Aerodrome.
3	Transportation	Taxis, trains.
4	Medical facilities	Limited first aid on site.
5	Bank and Post Office	Broughton village.
6	Tourist Office	Chester.

7	Remarks	

EGNR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 Aircraft greater than Category A7 require specific approval to operate at the airport, Tel: +44 (0)1244-522012.
2	Rescue equipment	2x Panther fire tenders (12,000 LT water/1500 LT foam each) 1x Rosenbauer Buffalo fire tenders (10,000 LT water/1200 LT foam).
3	Capability for removal of disabled aircraft	Contact Fire Control Room on 01244-522371. Aircraft 150 tonnes (if aircraft can be rolled) with prior approval from accountable manager.
4	Remarks	

EGNR AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical. Chemical de-icing. Esseco liquid de-icer Safegrip Plus (KAC) and solid de-icer Safegrip SF(KAC).
2	Clearance priorities	Runway 04/22; Beluga Apron and Taxiways B and E; Apron A and Taxiway A; Apron C and Taxiway C; Apron N and Taxiway N; Taxiways D, J and G.
3	Remarks	Latest information available from ATC. Tel: 01244-522012.

EGNR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	A Surface: Concrete PCN 23/F/D/Y/U BELUGA APRON Surface: Concrete PCN 66/R/D/X/T C Surface: Asphalt PCN 23/F/D/Y/U D Surface: Asphalt PCN 23/F/D/Y/U N Surface: Asphalt PCN 23/F/D/Y/U
2	Taxiway width, surface and strength	Taxiway ALPHA: 25 M Surface: Asphalt PCN 23/F/D/Y/U Width: 25 M between runway and Taxiway D intersection; 15 M between Taxiway D intersection and Apron A. Taxiway BRAVO: 25 M Surface: Asphalt PCN 66/R/D/X/T Taxiway CHARLIE: 15 M Surface: Asphalt PCN 23/F/D/Y/U Taxiway DELTA: 15 M Surface: Asphalt PCN 23/F/D/Y/U Taxiway ECHO: 23 M Surface: Concrete and asphalt PCN 66/R/D/X/T

		Taxiway GOLF: 18 M Surface: Asphalt PCN 23/F/D/Y/U Taxiway JULIET: 10.5 M Surface: Asphalt PCN 23/F/D/Y/U Taxiway NOVEMBER: 15 M Surface: Asphalt PCN 23/F/D/Y/U
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGNR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 04/22: Designators 04/22. Permanently displaced thresholds. TDZ and fixed distance markers. Blue edge markers on runway turning circles. Taxiway light(s): Taxiway J is not lit, but has retro reflective lin-laner markers.
3	Stop bars and runway guard lights (if any)	Stop Bars at Hold points A1, B1, C1, D1, E1, G1 and N1. Runway guard lights at Hold points A1, B1, C1, D1, E1, G1 and N1.
4	Other runway protection measures	
5	Remarks	Taxiways G and J are unlit and not available for use at night. WDIs (LGTD): 531030.01N 0025908.18W; 531059.37N 0025829.30W.

EGNR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNR4064) 22/APPROACH 04/ TAKE-OFF	CHIMNEY	531614.60N 0025017.59W	526 FT	498 FT	No	
(EGNR5014) 22/APPROACH 04/ TAKE-OFF	PYLON	531251.10N 0025610.31W	174 FT	86 FT	No	
(EGNR313) 22/APPROACH 04/ TAKE-OFF	PYLON	531216.18N 0025643.33W	102 FT	88 FT	No	
(EGNR310) 22/APPROACH 04/ TAKE-OFF	PYLON	531156.62N 0025628.47W	92 FT	74 FT	No	
(EGNR12719) 22/APPROACH 04/ TAKE-OFF	TREE	531120.40N 0025741.09W	55 FT	38 FT	No	
(EGNR10115) 22/APPROACH 04/ TAKE-OFF	SILO	531117.61N 0025738.92W	55 FT	36 FT	No	
(EGNR10065) 22/APPROACH 04/ TAKE-OFF	TREE	531117.36N 0025742.60W	52 FT	35 FT	No	
(EGNR12732) 22/APPROACH 04/ TAKE-OFF	TREE	531115.19N 0025744.92W	55 FT	38 FT	No	
(EGNR12745) 22/APPROACH	TREE	531114.62N 0025740.16W	68 FT	51 FT	No	
(EGNR8898) 22/APPROACH 04/ TAKE-OFF	MOBILE OBST	531108.89N 0025800.75W	33 FT	15 FT	No	
(EGNR9882) 04/TAKE-OFF	BLAST FENCE	531108.08N 0025800.74W	32 FT	14 FT	Yes Red	
(EGNR9737) 04/APPROACH 22/ TAKE-OFF	BLAST FENCE	531011.80N 0025924.53W	77 FT	16 FT	Yes Red	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNR6882) 04/APPROACH 22/ TAKE-OFF	LAMP POST	531010.78N 0025923.25W	78 FT	18 FT	No	
(EGNR10129) 04/APPROACH 22/ TAKE-OFF	STREETLIGHT	531010.13N 0025914.72W	68 FT	18 FT	No	
(EGNR6851) 04/APPROACH 22/ TAKE-OFF	LAMP POST	531009.75N 0025910.37W	79 FT	35 FT	No	
(EGNR6747) 04/APPROACH 22/ TAKE-OFF	LAMP POST	530953.90N 0025939.51W	124 FT	33 FT	No	
(EGNR7963) 04/APPROACH 22/ TAKE-OFF	LAMP POST	530939.17N 0030028.87W	190 FT	36 FT	No	
(EGNR693) 04/APPROACH 22/ TAKE-OFF	PYLON	530804.44N 0030319.69W	408 FT	104 FT	No	
(EGNR691) 04/APPROACH 22/ TAKE-OFF	PYLON	530742.78N 0030317.38W	368 FT	106 FT	No	
(EGNR4205) 04/APPROACH 22/ TAKE-OFF	TELE POLE	530716.48N 0030436.03W	881 FT	25 FT	No	
(EGNR9644) 04/APPROACH 22/ TAKE-OFF	MAST	530715.08N 0030435.46W	899 FT	31 FT	No	Hope Mountain
(EGNR10747) 22/APPROACH 04/ TAKE-OFF	TREE	530701.17N 0030422.27W	940 FT	35 FT	No	
(EGNR10906) 04/APPROACH 22/ TAKE-OFF	HV PYLON	530630.66N 0030332.91W	1015 FT	110 FT	No	
(EGNR8607) 04/APPROACH 22/ TAKE-OFF	MAST	530621.74N 0030314.45W	1085 FT	68 FT	No	Hope Mountain
(EGNR4079) 04/APPROACH 22/ TAKE-OFF	PYLON	530433.58N 0030540.65W	1113 FT	159 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNR331)	PYLON	531300.47N 0025627.37W	185 FT	95 FT	No	
(EGNR4148)	PYLON	531128.05N 0030232.10W	363 FT	98 FT	No	
(EGNR45)	HANGAR	531102.69N 0025753.93W	67 FT	49 FT	No	
(EGNR9733)	BUILDING	531045.85N 0025928.47W	105 FT	72 FT	No	
(EGNR9731)	APRON LIGHT	531035.91N 0025834.45W	66 FT	51 FT	Yes Red	
(EGNR9952)	BLDG OBS LT	531029.89N 0025835.45W	105 FT	85 FT	No	Infringes the Transitional Surface for both runway directions.
(EGNR10259)	CHURCH SPIRE	531009.39N 0025904.86W	108 FT	68 FT	Yes Red	
(EGNR773)	PYLON	530949.79N 0030304.54W	524 FT	115 FT	No	
(EGNR12996)	CONIFER TREE	530938.22N 0030036.52W	262 FT	95 FT	No	
(EGNR10721)	BLDG EXTENT	530903.40N 0030344.37W	676 FT	319 FT	No	
(EGNR10731)	HV PYLON	530650.79N 0030858.54W	877 FT	144 FT	No	
(EGNR8605)	MAST	530621.30N 0030310.72W	1092 FT	78 FT	No	
(EGNR10842)	HV PYLON	530458.97N 0030616.55W	1205 FT	169 FT	No	

EGNR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	As per operational hours.
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 HR.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone. www.metoffice.gov.uk
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	Available on request from ATC.
8	Supplementary equipment available for providing information	Fax, e-mail, ATIS via internet (Airbrief).
9	ATS units provided with information	HAWARDEN
10	Additional information (limitation of service, etc.)	Live MET information available at www.egnr.airbrief.net

EGNR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
04	041.00°	2093 x 45 M	RWY surface: Concrete and asphalt. Grooved. PCN 66/R/D/X/T	531023.68N 0025904.93W 172.7 FT	THR 31.6 FT TDZ 31.6 FT	RWY 04 -1:239 Down RWY 22 1:239 Up
22	221.01°	2093 x 45 M	RWY surface: Concrete and asphalt. Grooved. PCN 66/R/D/X/T	531058.84N 0025814.06W 172.6 FT	THR 16.7 FT TDZ 16.8 FT	RWY 04 -1:239 Down RWY 22 1:239 Up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	147 x 150 M	2082 x 280 M	90 x 90 M -			RWY 04 Threshold displaced by 302 M.
	166 x 150 M	2082 x 280 M	90 x 90 M -			RWY 22 Threshold displaced by 351 M. 87 M starter strip.

EGNR AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
04	1962 M	2109 M	1962 M	1660 M	
22	2042 M	2208 M	2042 M	1742 M	
04	1468 M	1615 M	1468 M		Take-off from intersection with Taxiway D.
04	1082 M	1229 M	1082 M		Take-off from intersection with Taxiway A.
22	2093 M	2259 M	2093 M	1742 M	For Beluga operations only.
22	2042 M	2208 M	2042 M		Take-off from intersection with Taxiways C and N.
22	1263 M	1429 M	1263 M		Take-off from intersection with Taxiway G.
22	911 M	1077 M	911 M		Take-off from intersection with Taxiway A.

EGNR AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
04	One crossbar. Runway 04 has a final cleared plane of 1:32 over a distance of 1.75 miles, safeguarded at 1:50 incorporating a 3.5° ILS glideslope with an OCA of 570 FT. 427 M Light intensity high	Green Light intensity high Indented with green wingbars	PAPI Right/ 3.5° 47 FT 269 M	480 M 8 bar	1663 M 30 M spacing 900 M red/ white caution zone LED White Light intensity high	Elev bi-directional with omni-directional component Light intensity high	Red		
22	Two crossbars. 366 M Light intensity high	Green Light intensity high Indented with green wingbars	PAPI Left/3° 42 FT 291 M	540 M 9 bar	1743 M 30 M spacing 900 M red/ white caution zone LED White Light intensity high	Elev bi-directional with omni-directional component Light intensity high	Red		

EGNR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 531031.61N 0025911.27W
3	TWY edge and centre line lighting	CL: Green centre-line lighting on turn pads (04/22), Taxiways E, B and Beluga Apron. EDGE: Blue edge lights on Taxiways A, B, C, D, E and N.
4	Secondary power supply/switch-over time	UPS and stand-by generator by ATC tower. 1 second switch-over time on generator.
5	Remarks	Obstacle lighting, apron floodlighting (except Apron N).

EGNR AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 531052.44N 0025841.23W, 172.7 FT
2	TLOF and/or FATO elevation	TLOF: 14.4 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Unlit Helicopter TLOF marked by H is positioned North of Taxiway Juliet, suitable for helicopters with greatest overall length not exceeding 16 M. Police aiming point marked by Triangle at north end of taxiway Juliet, for use by approved aircraft in accordance with unit specific procedures.

EGNR AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
HAWARDEN ATZ A circle, 2.5 NM radius, centred at 531041N 0025840W on longest notified runway (04/22)	Upper limit: 2000 FT AGL Lower limit: SFC	G	HAWARDEN RADAR English	5000 FT		ATZ hours coincident with TWR hours as detailed in AD 2.18.
HAWARDEN RMZ 1 531309N 0025059W - 530940N 0025059W - 531427N 0030140W - 531309N 0025059W	Upper limit: 2500 FT ALT Lower limit: SFC	G	HAWARDEN RADAR English	5000 FT		RMZ hours coincident with aerodrome hours as detailed at EGNR AD 2.3. For conditions of RMZ entry see EGNR AD 2.22 Flight Procedures. Contiguous with overlying CAS.
HAWARDEN RMZ 2 530940N 0025059W - 530823N 0025059W - 530400N 0025720W - 530845N 0031227W - 531525N 0030250W - 531427N 0030140W - 530940N 0025059W	Upper limit: 3000 FT ALT Lower limit: SFC	G	HAWARDEN RADAR English	5000 FT		Contiguous with overlying CAS.
HAWARDEN RMZ 3 530400N 0025720W - 530000N 0030305W following the line of latitude to - 530000N 0030711W - 530321N 0031150W - 530845N 0031227W - 530400N 0025720W	Upper limit: 4500 FT ALT Lower limit: SFC	G	HAWARDEN RADAR English	5000 FT		Contiguous with overlying CAS.

EGNR AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	HAWARDEN TOWER	124.955 DOC 20 NM/6,000 FT.			Mon-Fri 0800-2100 (0700-2000); Sat, Sun & PH 0830-1800 (0730-1700).	ATZ hours coincident with Tower hours.
RADAR	HAWARDEN RADAR	120.055 DOC 40 NM/ 20,000 FT.			Mon-Fri 0800-2100 (0700-2000); Sat, Sun & PH 0830-1800 (0730-1700).	
		130.015 DOC 40 NM/ 20,000 FT. Not continuously monitored.			When directed by ATC.	
ATIS	HAWARDEN INFORMATION	125.430 DOC 40 NM/ 20,000 FT.			Mon-Fri 0800-2100 (0700-2000); Sat, Sun & PH 0830-1800 (0730-1700).	
OTHER	HAWARDEN FIRE	121.605 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.22°E (2027)	IHWD	110.350 MHz	HO	531043.61N 0025844.66W		(RWY 04) ILS is offset 2.6° to the right. Due to terrain considerations, below 3500 FT, the LOC and associated DME are restricted to operations within +-35 to a range of 10 NM and +-10 out to a range of 18 NM. Above 3500 FT the LOC and associated DME is usable to 35 degrees either side of centreline from 17 NM.
ILS/GP	IHWD	334.850 MHz	HO	531032.82N 0025902.39W		3.5° ILS Ref Datum Hgt 42 FT.
ILS/LOC I 0.22°E (2027)	IHDN	110.350 MHz	HO	531011.58N 0025922.44W		(RWY 22) LOC off-course clearance: It should be noted that false capture may occur in the sector 26 to 30 left of centre-line with certain types of aircraft navigation receiver. 22 ILS has an infringement of the transitional surface by hangar ENE of the runway threshold.
ILS/GP	IHDN	334.850 MHz	HO	531054.58N 0025830.94W		3° ILS Ref Datum Hgt 52 FT.
DME	IHWD	40Y 110.350 MHz	HO	531043.90N 0025844.33W	50 FT	(RWY 04) On AD. Freq paired with ILS I-HDN and I-HWD. Zero range to THR of Runway 22 and 04. Due to terrain effects DME unusable below 4500 FT in sector 240 to 270 MAG, in excess of 15 NM.
DME	IHDN	40Y 110.350 MHz	HO	531043.90N 0025844.33W	50 FT	(RWY 22) On AD. Freq paired with ILS I-HDN and I-HWD. Zero range to THR of Runway 22 and 04. Due to terrain effects DME unusable below 4500 FT in sector 240 to 270 MAG, in excess of 15 NM.
NDB (L) 0.22°E (2027)	HAW	340.000 kHz	HO	531045.00N 0025846.33W		On AD. Range 25 NM.

EGNR AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Not available to non-radio equipped aircraft.
b) High visibility clothing to be worn on all aprons.
c) Marshalling is mandatory on all aprons.
d) Due to the nature of the operation and high risk of turbulence from factory buildings Hawarden AD is not available to any aircraft with a MTOW of less than 450 KG, or to gliders, motor-gliders, flex-wing microlights and gyrocopters.
e) Tail-wheel type aircraft (tail-draggers) are not permitted unless the pilot-in-command has at least 200 hours on type.
f) APU and/or engine running not permitted outside operational hours of ATC/RFFS.

2 GROUND MOVEMENT

a) The visibility of Aprons N and C from the ATC Control Tower is restricted. Aircraft may be issued with conditional clearances concerning other aircraft movements. Aircraft movements and engine running on these aprons are subject to ATC approval.
b) The area west of Taxiway D is defined as Apron A. All aircraft operations are subject to ATC clearance on Apron A.

3 CAT II/III OPERATIONS

a) CAT II/III Operations not available.
b) **Low Visibility Procedures (LVPs)**

i. LVPs in force when visibility 1639 M or less;
ii. Visibility 800 M or less - operations restricted to one aircraft movement at a time;
iii. Visibility 400 M or less - all airfield operations cease until visibility increases above 400 M.

4 WARNINGS

a) Restricted Area EGR311, 5 NM north of the AD.
b) Complex CAS in the vicinity, including:

- Liverpool CTR, North of ATZ;
- Manchester CTA 2500 FT to 3500 FT North of Hawarden;
- PEPZE CTA 3000 FT - FL 195.

Note: *Aircraft must remain clear of CAS unless in receipt of a positive instruction to enter.*

c) The reinforcing steel within the concrete pavement of Runway 04/22 may cause compass deviation on stationary aircraft.
d) Westerly and Easterly surface winds of greater than 15 KT may lead to turbulence from factory buildings.
e) Runway 22 strip end is infringed on the left hand side by a frangible garden fence to a distance of 34 M.
f) High Ground to 1848 FT AMSL between 5 NM and 10 NM Southwest of the AD.
g) Hangar infringes the southern transitional surface to Runway 04/22 by 7.94 M. It is fitted with an obstruction light.
h) Yellow centre-line guidance on turn pad 04 is for Beluga operations only. All other traffic should self-position within the confines of the turn pad provided with blue edge lighting.
i) Yellow centre-line guidance on turn pad 22 is for Beluga operations only. All other traffic should self-position and use the Take-off from intersection with Taxiways C and N as per AD 2.13.
j) Model aircraft flying site on southern boundary of ATZ (Kinnerton 530817.1N 0025829.7W). Occasional activity Mon-Sun SFC to 400 FT AGL.

5 HELICOPTER OPERATIONS

a) Helicopter Operations 'H' is available for helicopters up to 'd' value not exceeding 13.5 M, during daylight hours only.
b) Aiming point on Taxiway J is available ONLY for helicopters approved by the aerodrome management in accordance with locally agreed procedures.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) VFR and IFR training for based and non-based operators available during published operational hours. Contact ATC for details.
b) Glide approaches are not permitted to Runway 04 from right-hand circuit.
c) Traffic on left hand circuit Runway 04/right hand circuit Runway 22 will operate in close proximity to Liverpool CTR.

EGNR AD 2.21 NOISE ABATEMENT PROCEDURES

The following procedures may be departed from only to the extent necessary for avoiding immediate danger and for complying with ATC instructions.

a) Aircraft should avoid overflying built up areas and dwellings and minimize noise nuisance as far as possible, fly neighbourly and comply with their aircraft specific noise abatement techniques.
b) Jet and multi-engine turbo-prop aircraft must not join the Final Approach Track at a height of less than 1000 FT QFE.
c) All departures, including visual circuit traffic, turning left from Runway 22 must climb straight ahead to I-HDN or I-HWD D1.5 or until passing the A55 road (Junction 36) before turning on track.
d) Helicopters are to avoid overflying the village of Broughton (1 NM southwest of the airport) and the factory buildings that are situated northwest and southeast of Runway 04/22 below 1000 FT QFE.
e) Circuit height: piston engine or single-engine turbo-prop fixed wing 1000 FT; Jet or multi-engine turbo prop aircraft 1500 FT; Helicopters 800 FT.

EGNR AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR AIRCRAFT INBOUND TO HAWARDEN FROM THE AIRWAYS SYSTEM

a) In order to provide improved ATC handling of Airways flights inbound to Hawarden, a system of Standard Inbound Routes is established. In some case these are coincident with Standard Arrival Routes (STARs) to Liverpool Airport in which case the appropriate STAR Designators will be used (See AD 2-EGGP-7).

Approach from	Via	Route	Descent Planning Information (Note)
SE	N601	LESTA - TNT - NANTI - KEGUN (EGGP LESTA 1L STAR)	FL 200 by LESTA FL 100 by NANTI
	T420	ELVOS - TNT - NANTI - KEGUN (EGGP ELVOS 1L STAR)	FL 200 by 25 NM before TNT FL 100 by NANTI
	Y53	PEDIG - NANTI - KEGUN	
S	P16	PEPZE - MONTY - GODPA - KEGUN (EGGP PEPZE 1L STAR)	FL 180 BY PEPZE
	N864	AVTIC - OSWEZ - MONTY - GODPA - KEGUN	
W	L975/UL975	LYNAS - WAL - KEGUN	FL 240 by NATKO FL 130 by ROLEX
	Q36	ABGEP - ALAVA - MALUD - WAL - KEGUN	FL 130 by ALAVA
	Q37	BAVUD - DONAX - MALUD - WAL - KEGUN	FL 130 by DONAX
NW	L10	IOM - WAL - KEGUN	FL 230 by KELLY
	Q38	MAKUX - SOSIM - PENIL - WAL - KEGUN	FL 230 by SOSIM
N	L612	CROFT - WAL - KEGUN	FL 200 10 NM before LAKEY
NE	POL	POL - WAL - KEGUN	
E	L975	DESIG - WAL - KEGUN	FL 290 by VEGUS FL 170 by UPTON

Note: *For planning purposes only, pilots within the ATS Route Structure should plan for possible descent to the levels indicated. Holding at KEGUN as published in AD 2-EGGP-7.* ***Actual descent clearance will be as directed by ATC****.*

i. **Holding**
ii. **Loss of Communications**

1. Follow the appropriate loss of communications procedures detailed at ENR 1.1.3 to KEGUN. Descend at KEGUN to leave controlled airspace and proceed to NDB(L) HAW and carry out an appropriate instrument approach procedure in accordance with the standard loss of communications procedures.

b) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.
c) Circuit directions variable. Circuit heights: Fixed-wing piston 1000 FT QFE, Jet 1500 FT QFE, Helicopters 800 FT QFE.
d) Standard Terminal Arrival Routes (STAR) refer to AD 2-EGGP-7.
e) Pilots are to advise POB on first contact with ATC.

2 PROCEDURES FOR AIRCRAFT DEPARTING HAWARDEN TO JOIN THE AIRWAYS SYSTEM

All Airways departures will be issued with a standard outbound clearance referred as a REXAM 5 or WAL 4 departure as follows:

a) REXAM 5 Runway 22 — join controlled airspace on track REXAM climbing to 5000 FT ALT. If no contact with Scottish Control by REXAM, take up a right hand orbit at REXAM and re-contact Hawarden on previous frequency;
b) REXAM 5 Runway 04 — after departure, immediate right turn remaining outside the Manchester CTA, join controlled airspace on track REXAM climbing to 4000 FT ALT, on crossing the WAL 167R, climb to 5000 FT. If no contact with Scottish Control by REXAM, take up a right hand orbit at REXAM and re-contact Hawarden on previous frequency;
c) WAL 4 Runway 04: Turn immediately left on track WAL, climb to altitude 4000 FT. If no contact with Scottish Control, take up a right hand orbit at WAL and re-contact previous ATC agency;
d) WAL 4 Runway 22: Turn immediately right on track WAL, climb to altitude 4000 FT. If no contact with Scottish Control, take up a right hand orbit at WAL and re-contact previous ATC agency.

Note 1: *The transition altitude for this procedure is 5000 FT due to the proximity of the Manchester TMA. Aircrew should ensure that autopilots and FMC's are set accordingly.*

Note 2: *Scottish Control Frequency 128.055 MHz.*

3 RADIO MANDATORY ZONE (RMZ)

For flight within the RMZ aircraft commanders must comply with one of the following:

a) Establish satisfactory two-way RTF communication with and pass pertinent flight details to Hawarden Radar (120.055 MHz) prior to entering the RMZ. Maintain two-way communication with Hawarden Radar whilst operating inside the RMZ, unless otherwise instructed.

b) Display the Hawarden Frequency Monitoring Code (FMC) (*4607) with Mode C as detailed below and in ENR 1.6 paragraph 2.6, UK SSR Code Allocation Plan, and monitor Hawarden Radar (120.055 MHz) prior to entering and whilst inside the RMZ. Pilots must maintain a listening watch and establish two-way RTF communication, if directed, whilst operating inside the RMZ.

Selection of the FMC does not imply receipt of an ATC service and pilots remain responsible for navigation, separation, terrain clearance, and are expected to remain outside of Controlled Airspace at all times.

When a pilot leaves the RMZ they should deselect the FMC.

c) Non-radio aircraft should contact Hawarden ATC by telephone (01244-522012), SMS text (07786-208291) or email (atcopshawarden@airbus.com) prior to commencing any planned flight that will enter or cross the RMZ, supplying aircraft registration, type, estimates and points of entry/exit, planned altitudes and duration/activity in the RMZ (if applicable). On receipt of this information an acknowledgement will be issued by ATC Hawarden.
d) Conduct flight in accordance with valid Letter of Agreement with Hawarden ATC.

4 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the Hawarden RMZ within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Hawarden Radar frequency, 120.055 MHz, are encouraged to select SSR code 4607.

531714N	0031104W	–	531427N	0030140W	-
530626N	0024349W	–	530314N	0024935W	-
525503N	0030414W	–	525508N	0030932W	-
530209N	0031953W	–	531020N	0032115W	-

531525N 0031346W – 531714N 0031104W.

b) Selection of 4607 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Hawarden RMZ at all times.
c) Whilst squawking 4607, pilots should be aware that Hawarden Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 4607 shall be deselected.

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGNR AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNR AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNR-2-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNR-5-1
INSTRUMENT APPROACH CHART OFFSET ILS/DME/NDB(L) RWY 04 (CAT A,B,C) - ICAO
AD 2.EGNR-8-1
INSTRUMENT APPROACH CHART OFFSET LOC/DME/NDB(L) RWY 04 (CAT A,B,C) - ICAO
AD 2.EGNR-8-2
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 04 (CAT A,B,C) - ICAO
AD 2.EGNR-8-3
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 04 (CAT A,B,C) - ICAO
AD 2.EGNR-8-4
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 22 (CAT A,B,C) - ICAO
AD 2.EGNR-8-5
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 22 (CAT A,B,C) - ICAO
AD 2.EGNR-8-6
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 22 (CAT A,B,C) - ICAO
AD 2.EGNR-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 22 (CAT A,B,C) - ICAO

EGNR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

HAWARDEN EGNR

AERODROME CHART - ICAO

ARP 531041N 0025840W

AD ELEV 45FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	PCN
RWY 04/22	Grooved Asphalt/Concrete	66/R/D/X/T
Apron Beluga	Concrete	66/R/D/X/T
Apron A	Concrete	23/F/D/Y/U
Aprons C, D, N	Asphalt	23/F/D/Y/U
TWY A, C, D, G, J, N	Asphalt	23/F/D/Y/U
TWY B	Asphalt	66/R/D/X/T
TWY E	Asphalt/Concrete	66/R/D/X/T

CHANGE (11/25): EDITORIAL. MAG INFO.

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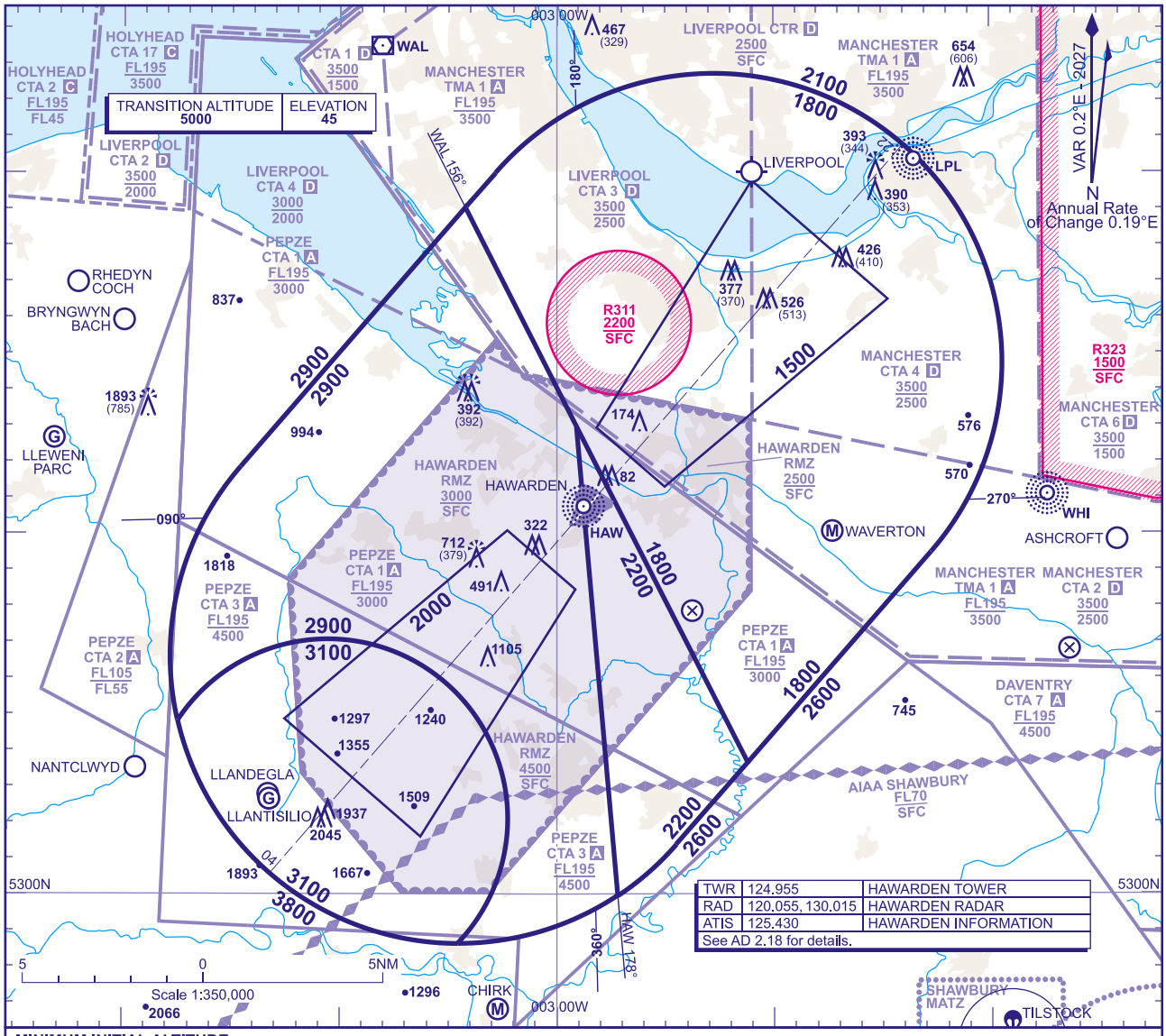
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1893
HEIGHTS IN FEET AGL (785)

HAWARDEN



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1800** in the sector defined by the lateral limits; 531902N 0030414W - 531959N 0030250W thence clockwise by an arc of a circle radius 8NM centred on 531445N 0025246W to 530929N 0024245W - 530339N 0025113W - 531258N 0025906W - 531902N 0030414W.

b) **2200** in the sector defined by the lateral limits; 531258N 0025906W - 530339N 0025113W - 530123N 0025431W thence clockwise by an arc of a circle radius 8NM centred on 530637N 0030432W to 525957N 0025712W - 531258N 0025906W.

c) **2900** in the sector defined by the lateral limits; 531151N 0031435W - 531902N 0030414W - 531258N 0025906W - 525957N 0025712W thence clockwise by an arc of a circle radius 8NM centred on 530637N 0030432W to 525838N 0030434W thence anti-clockwise by an arc of a circle radius 5NM centred on 530205N 0031032W to 530450N 0031728W thence clockwise by an arc of a circle radius 8NM centred on 530637N 0030432W to 531151N 0031435W.

d) **3100** in the sector defined by the lateral limits; 530450N 0031728W thence clockwise by an arc of a circle radius 5NM centred on 530205N 0031032W to 525838N 0030434W thence clockwise by an arc of a circle radius 8NM centred on 530637N 0030432W to 530450N 0031728W.

OUTSIDE THE DESIGNATED APPROACH SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) HAW**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) HAW**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of a approach surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of Instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (11/25): MAG INFO REVISED. SE, SW MSA REVISED.

AERO INFO DATE 07 AUG 25

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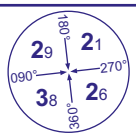
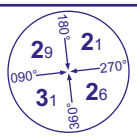
INSTRUMENT APPROACH CHART - ICAO

HAWARDEN OFFSET ILS/DME/NDB(L) RWY 04
(ACFT CAT A,B,C)



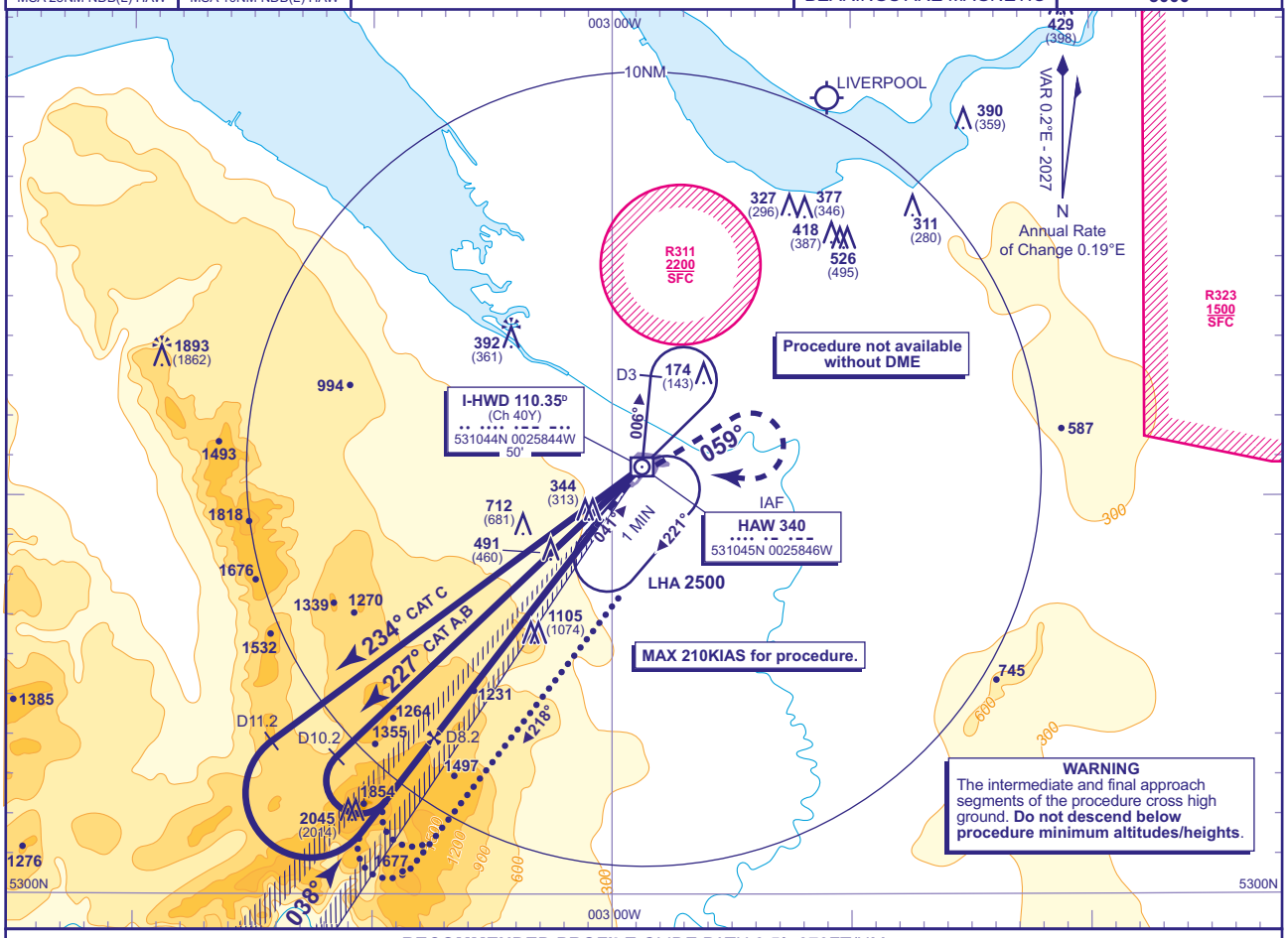
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	31
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION 2045 AMSL (2014) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

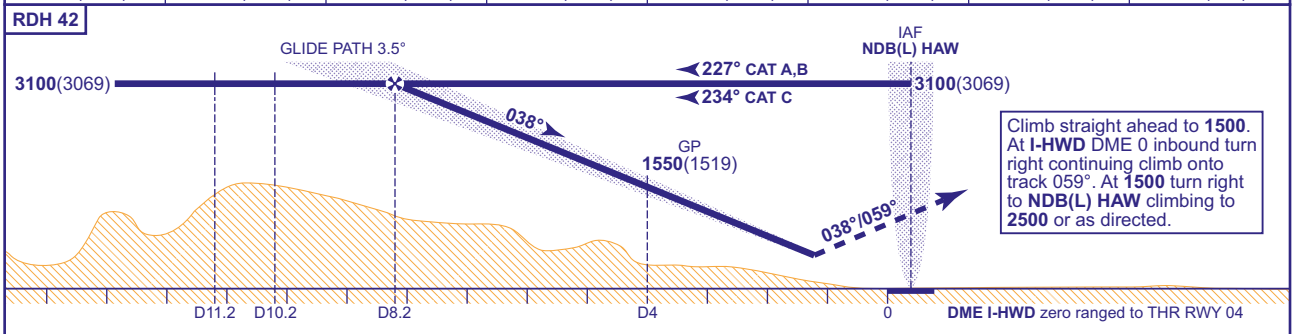
TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-HWD	8	7	6	5	4	3	2
ALT(HGT)	**3030**(2999)	**2660**(2629)	**2290**(2259)	**1920**(1889)	**1550**(1519)	**1180**(1149)	**810**(779)

RDH 42



Aircraft Category		A	B	C
OCA (OCH)	UNCAT	**530**(499)	**530**(499)	**530**(499)
VM(C)OCA (OCH AAL)	Total Area	**800**(755)	**900**(855)	
	East of RWY 04/22	**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	980	860	740	620	490

ALTERNATIVE PROCEDURE
Overhead NDB(L) HAW at **3100**(3069) turn right from the outbound leg of the hold turn left onto track 218°. At I-HWD DME 10.2 (CAT A,B) or I-HWD DME 11.2 (CAT C) commence right turn to establish on the localizer then continue as for basic procedure. Remain within I-HWD DME 15.

NOTE 1 LOC is offset 2.6° right of RWY 04 C/L and intercepts the RWY C/L 1NM from the THR.
2 Reversal baseturn from NDB(L) HAW outbound on QDR 006° to I-HWD DME 3 (1 MIN).

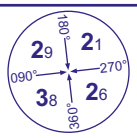
CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. MAG VAR.

AERO INFO DATE 06 AUG 25

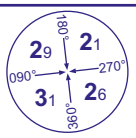
AD 2-EGNR-8-1

INSTRUMENT APPROACH CHART - ICAO

HAWARDEN OFFSET LOC/DME/NDB(L) RWY 04
(ACFT CAT A,B,C)



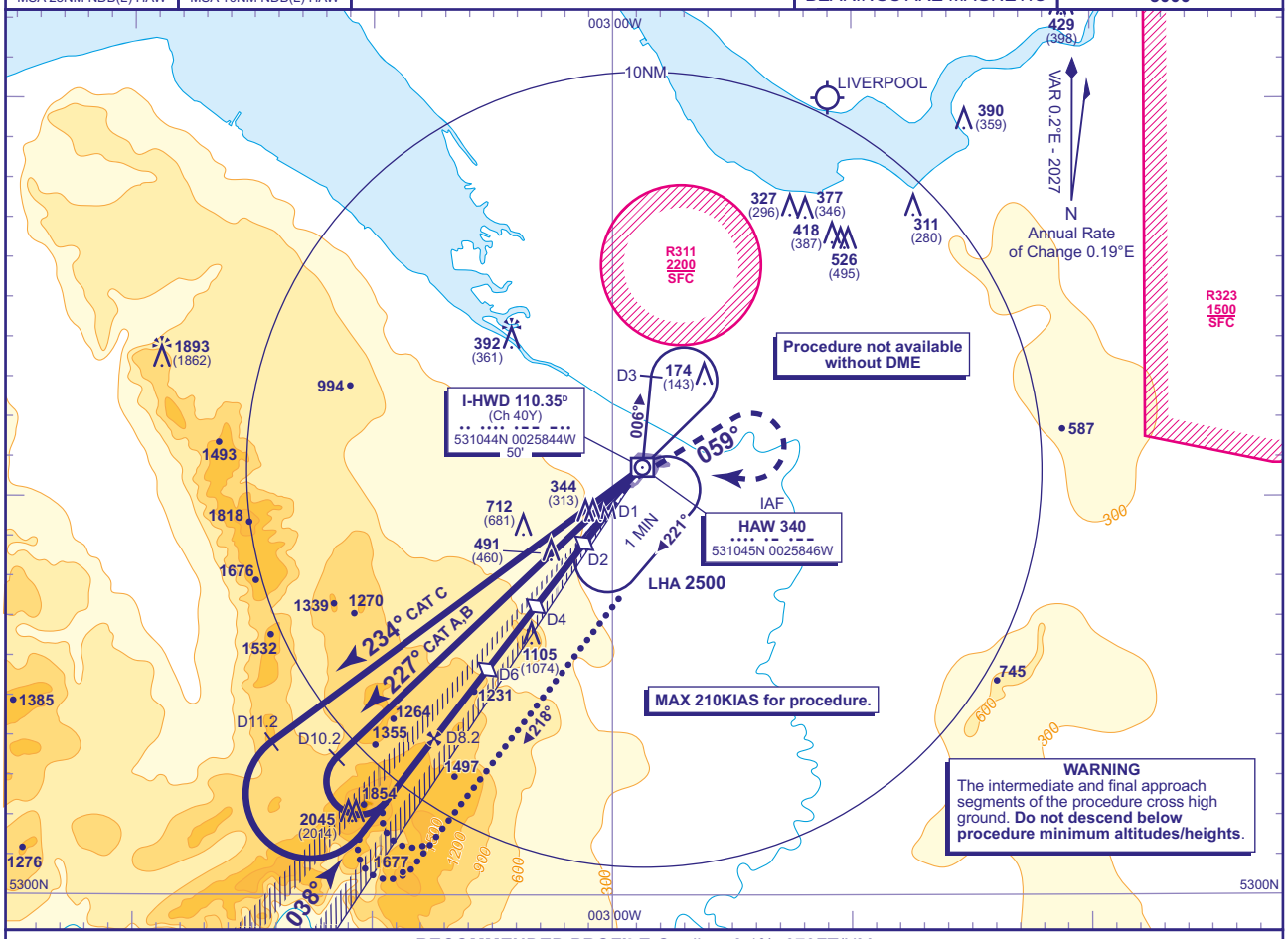
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

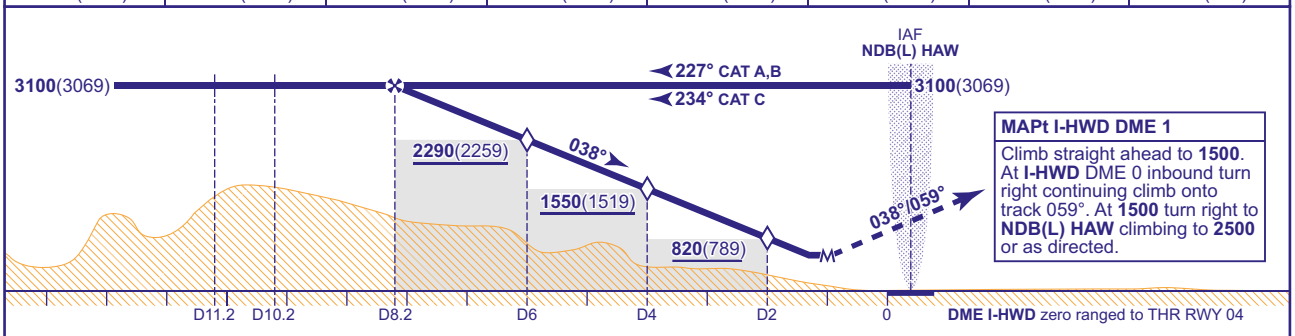
TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	31
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION **2045 AMSL** (2014) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-HWD	8	7	6 **(SDF)**	5	4 **(SDF)**	3	2 **(SDF)**
ALT(HGT)	**3030**(2999)	**2660**(2629)	**2290**(2259)	**1920**(1889)	**1550**(1519)	**1190**(1159)	**820**(789)



MAPt I-HWD DME 1
Climb straight ahead to **1500**. At **I-HWD** DME 0 inbound turn right continuing climb onto track 059°. At **1500** turn right to **NDB(L) HAW** climbing to **2500** or as directed.

Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**Procedure**	**650**(619)	**650**(619)	**650**(619)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(755)	**900**(855)	
	East of RWY 04/22	**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	980	860	740	610	490

ALTERNATIVE PROCEDURE
Overhead NDB(L) HAW at **3100**(3069) turn right and continue the outbound leg of the hold then turn left onto track 218°. At I-HWD DME 10.2 (CAT A,B) or I-HWD DME 11.2 (CAT C) commence right turn to establish on the localizer then continue as for basic procedure. Remain within I-HWD DME 15.

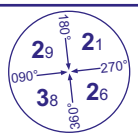
NOTE 1 LOC is offset 2.6° right of RWY 04 C/L and intercepts the RWY C/L 1NM from the THR.
2 Reversal baseturn from NDB(L) HAW outbound on QDR 006° to I-HWD DME 3 (1 MIN).

CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. OCA(OCH). MAG VAR.

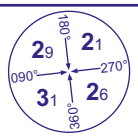
AERO INFO DATE 06 AUG 25 AD 2-EGNR-8-2

INSTRUMENT APPROACH CHART - ICAO

HAWARDEN
SRA RTR 2NM
RWY 04
(ACFT CAT A,B,C)



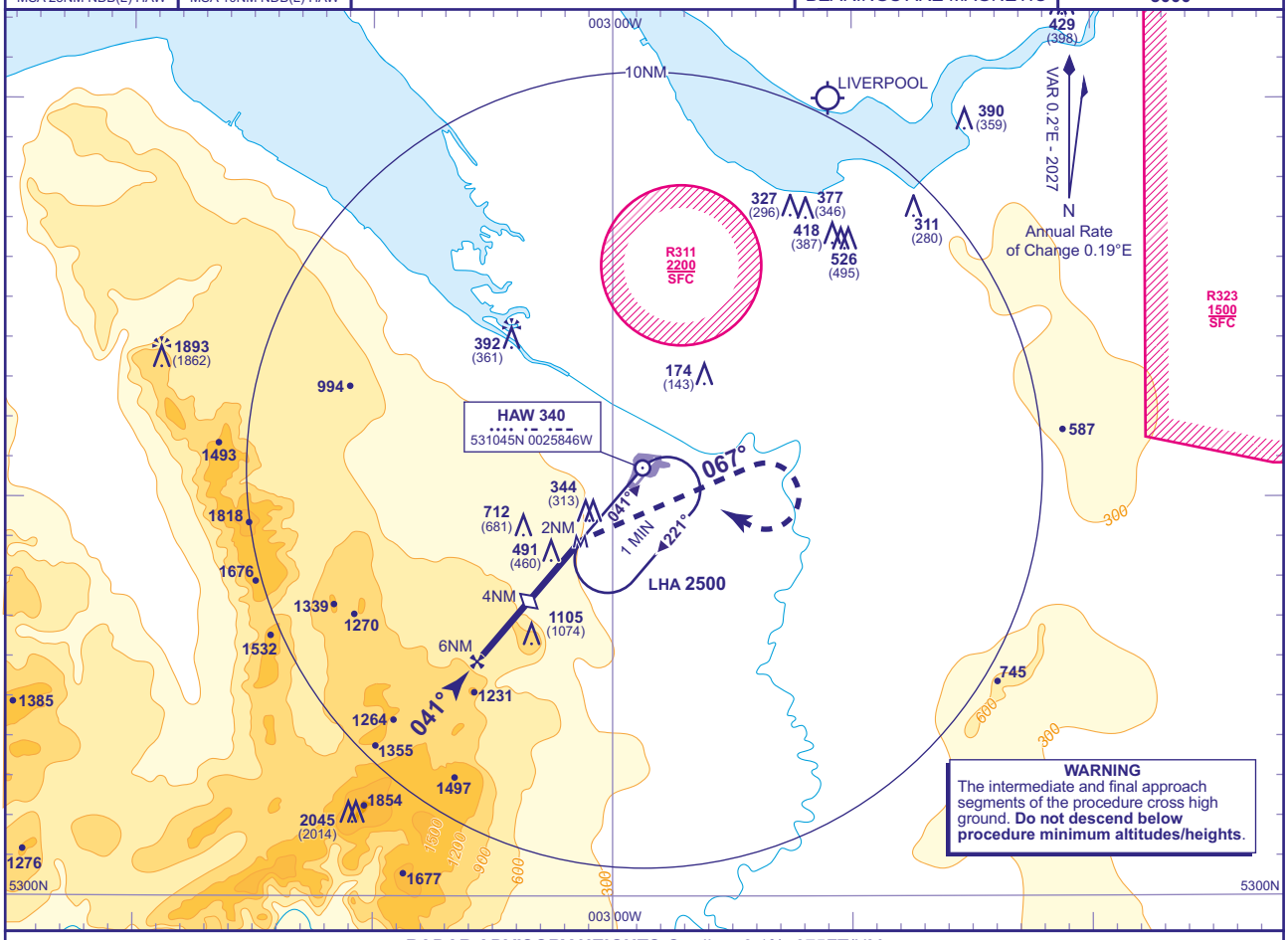
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	31
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION 2045 AMSL (2014) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

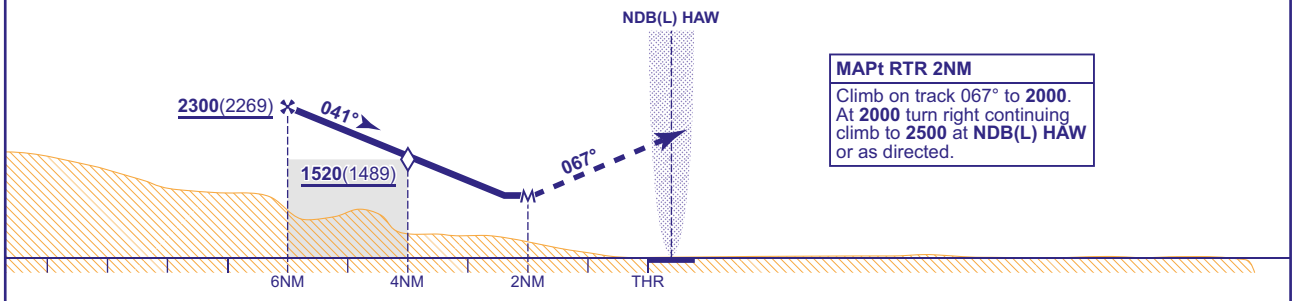
TRANSITION ALTITUDE **5000**



RADAR ADVISORY HEIGHTS Gradient 6.1%, 375FT/NM

NM	5.0	4.0 **(SDF)**	3.0
ALT(HGT)	**1920**(1889)	**1540**(1509)	**1170**(1139)

Initial and intermediate approach as directed by radar.



MAPt RTR 2NM
Climb on track 067° to **2000**. At **2000** turn right continuing climb to **2500** at **NDB(L) HAW** or as directed.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**970**(939)	**970**(939)	**970**(939)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(755)	**900**(855)	
	East of RWY 04/22	**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	G/S KT	160	140	120	100
	FT/MIN	990	860	740	620

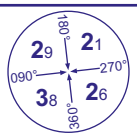
CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. MAG VAR. MAG TRACKS.

AERO INFO DATE 07 AUG 25

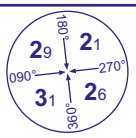
INSTRUMENT APPROACH CHART - ICAO

HAWARDEN NDB(L)/DME RWY 04

(ACFT CAT A,B,C)



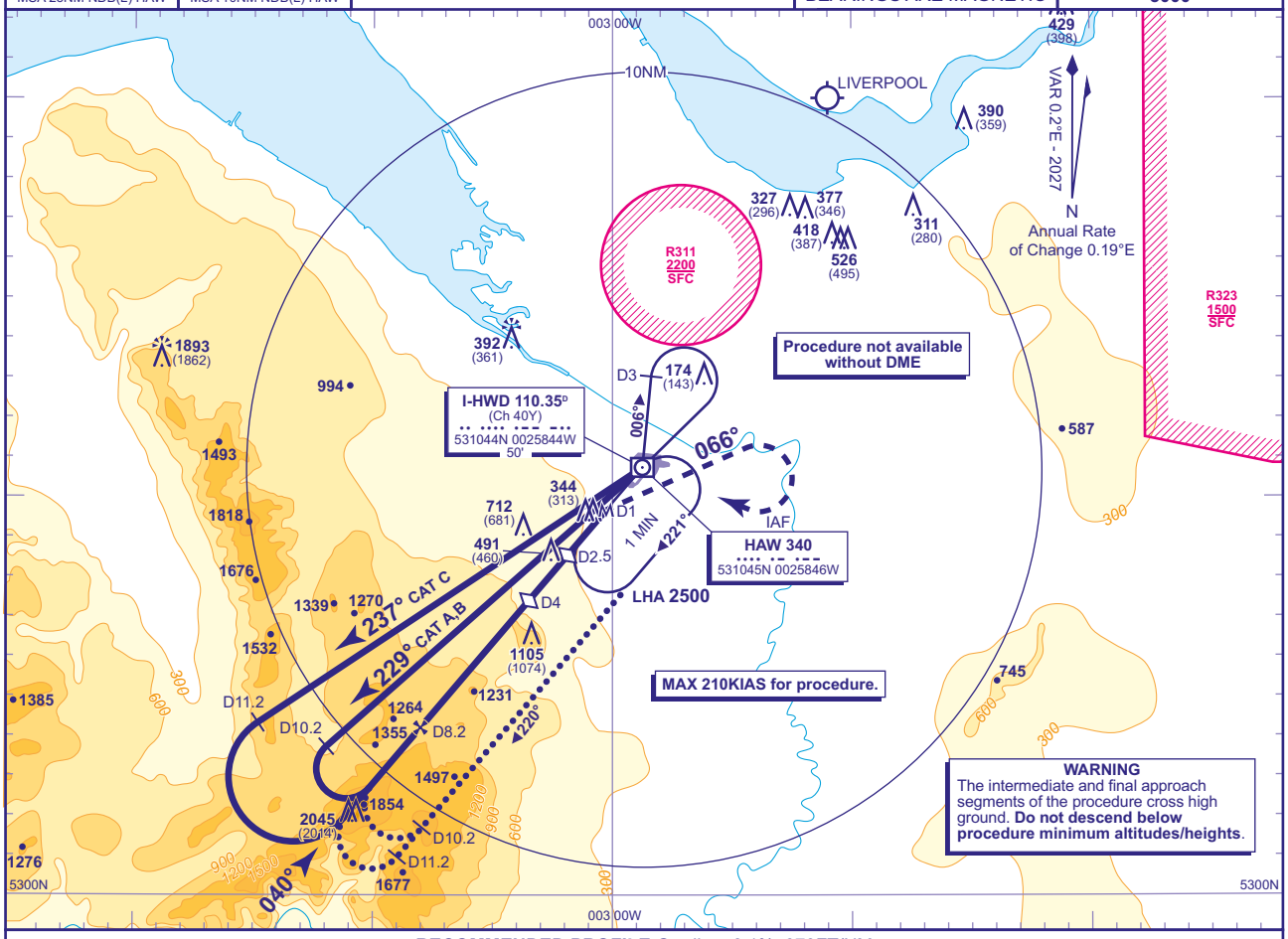
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

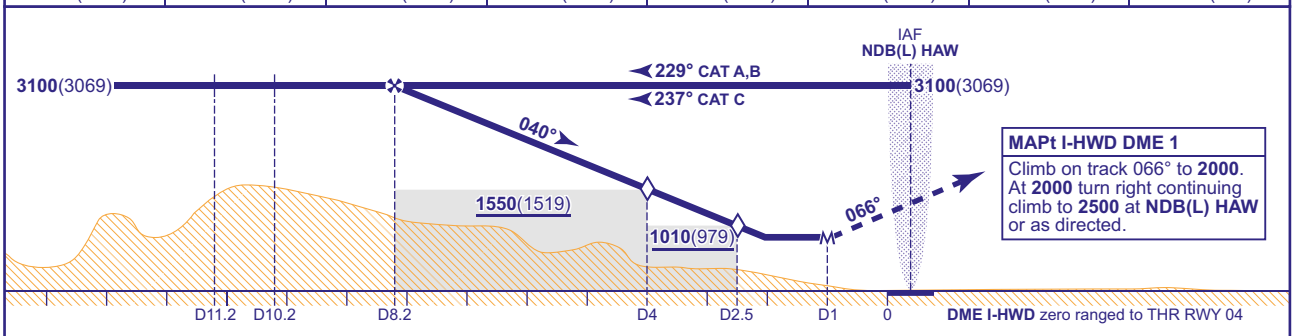
TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	31
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION 2045 AMSL (2014) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-HWD	8	7	6	5	4 **(SDF)**	3	2.5 **(SDF)**
ALT(HGT)	**3030**(2999)	**2660**(2629)	**2290**(2259)	**1920**(1889)	**1550**(1519)	**1180**(1149)	**1010**(979)



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**840**(809)	**840**(809)	**840**(809)
VM(C)OCA (OCH AAL)	Total Area	**800**(755)	**900**(855)	
	East of RWY 04/22	**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	980	860	740	610	490

ALTERNATIVE PROCEDURE
Overhead NDB(L) HAW at **3100**(3069) turn right and continue outbound on track 220°. At I-HWD DME 10.2 (CAT A,B) or I-HWD DME 11.2 (CAT C) commence right turn to establish on the extended FAT. When established continue as for basic procedure. Remain within I-HWD DME 15.

NOTE Reversal baseturn from NDB(L) HAW outbound on QDR 006° to I-HWD DME 3 (1 MIN).

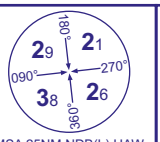
CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. OCA(OCH). MAG VAR. MAG TRACKS.

AERO INFO DATE 07 AUG 25

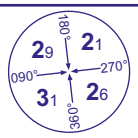
AD 2-EGNR-8-4

INSTRUMENT APPROACH CHART - ICAO

HAWARDEN
ILS/DME/NDB(L)
RWY 22
(ACFT CAT A,B,C)



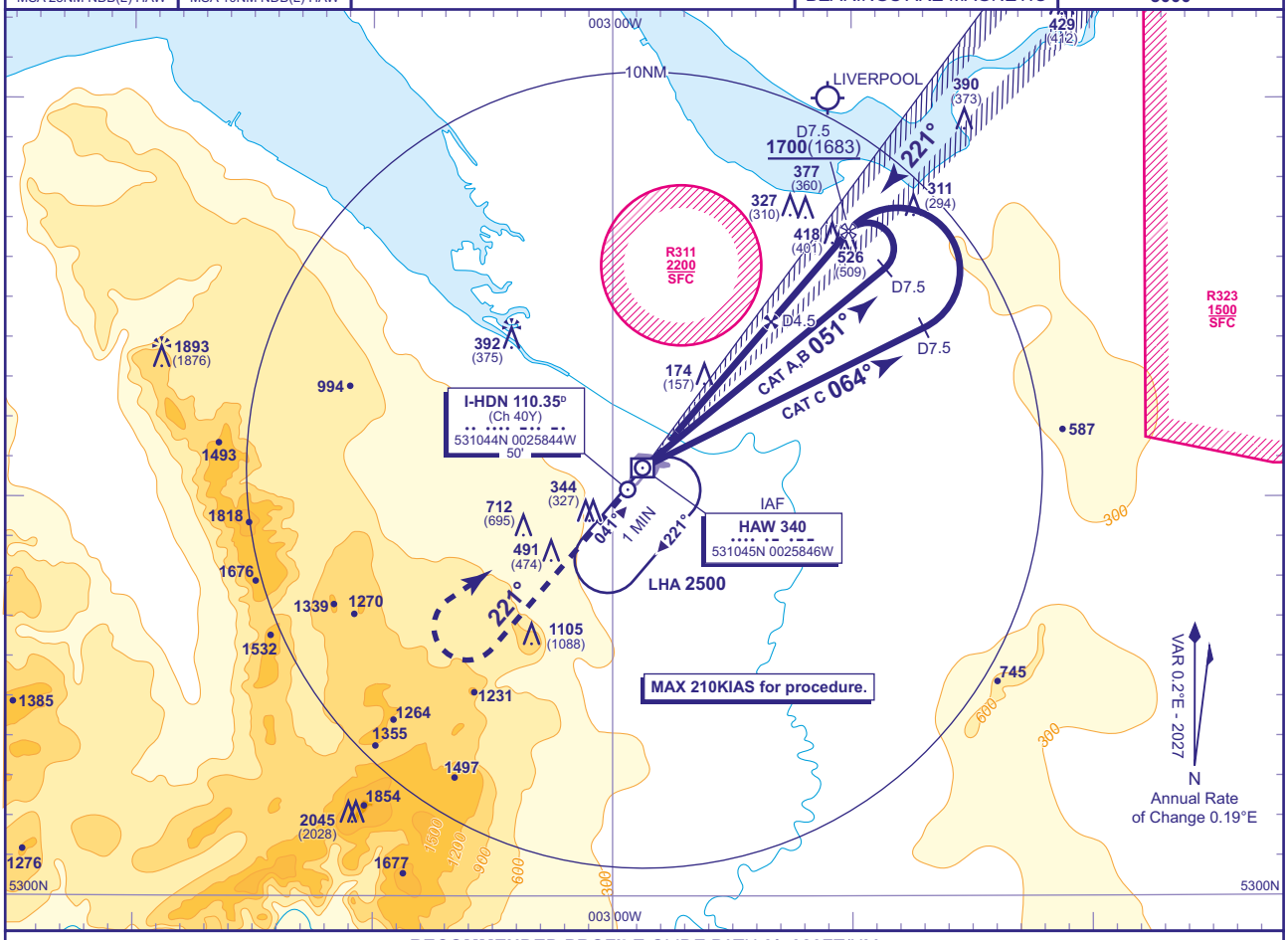
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	17
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION 2045 AMSL (2028) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**

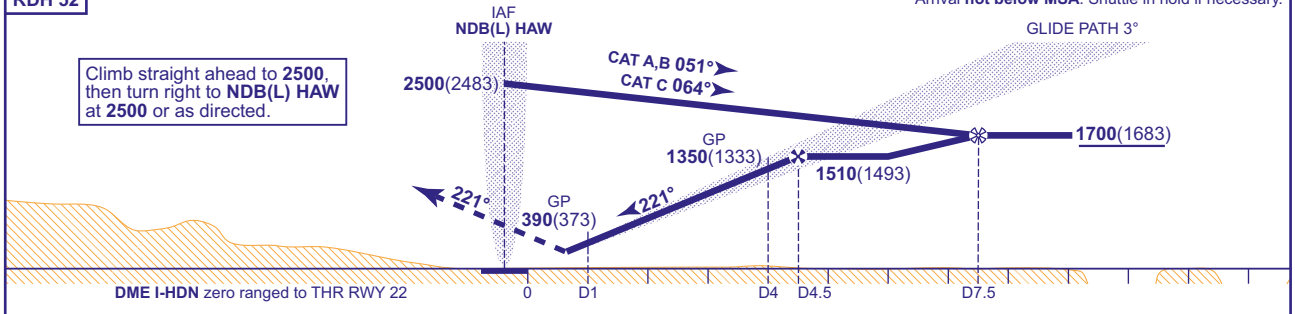


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-HDN	4	3	2	1
ALT(HGT)	**1350**(1333)	**1030**(1013)	**710**(693)	**390**(373)

RDH 52

Arrival **not below MSA**. Shuttle in hold if necessary.



Aircraft Category		A	B	C
OCA (OCH)	2.5% Climb	**380**(363)	**390**(373)	**400**(383)
	3% Climb	**270**(253)	**280**(263)	**290**(273)
VM(C)OCA (OCH AAL)	Total Area	**800**(755)	**900**(855)	
	East of RWY 04/22	**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

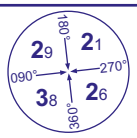
AIRCRAFT UNABLE TO RECEIVE DME I-HDN
Advise ATC. Subject to ATC approval, radar ranges will be provided at 7.5NM outbound and at 4.5NM inbound.

CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. IF ALTITUDE ON PROFILE INCREASE. MAG VAR. MAG TRACKS.

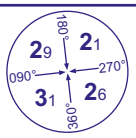
AERO INFO DATE 19 AUG 25

INSTRUMENT APPROACH CHART - ICAO

HAWARDEN
LOC/DME/NDB(L)
RWY 22
(ACFT CAT A,B,C)



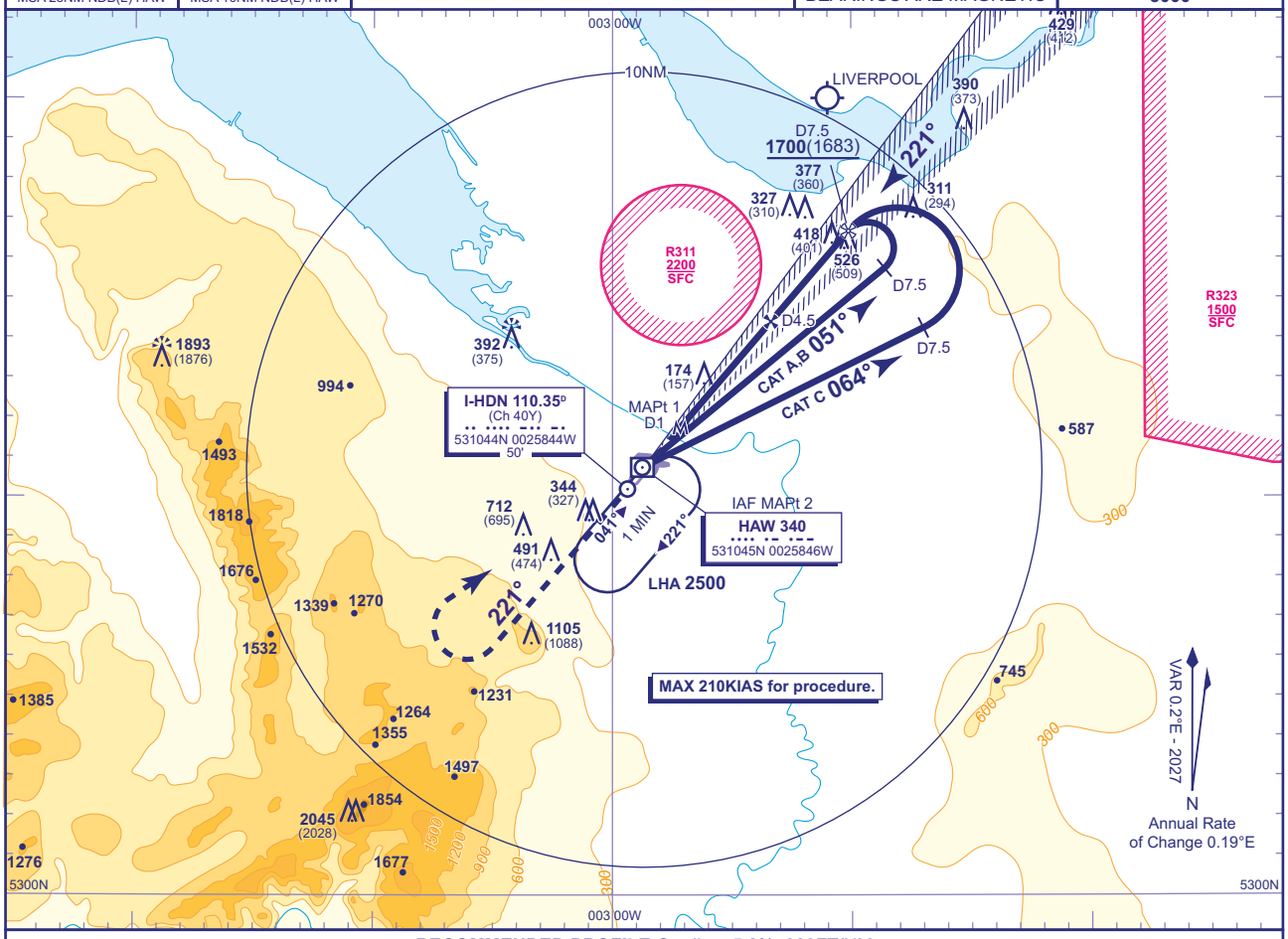
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	17
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION **2045 AMSL** (2028) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**

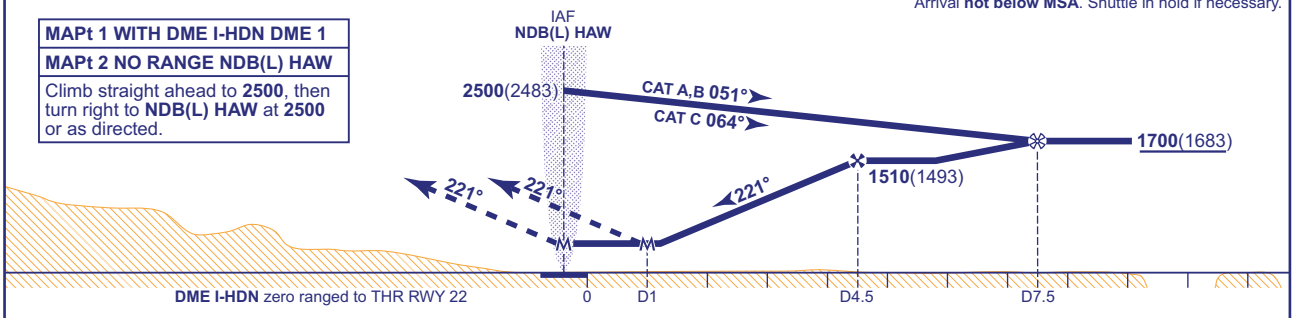


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-HDN	4	3	2
ALT(HGT)	**1350**(1333)	**1030**(1013)	**710**(693)

Arrival **not below MSA**. Shuttle in hold if necessary.

MAPt 1 WITH DME I-HDN DME 1
MAPt 2 NO RANGE NDB(L) HAW
Climb straight ahead to **2500**, then turn right to **NDB(L) HAW** at **2500** or as directed.



Aircraft Category			A	B	C
OCA (OCH)	No DME radar range only	2.5% Climb	**680**(663)	**680**(663)	**680**(663)
		3% Climb	**560**(543)	**560**(543)	**560**(543)
		4% Climb	**450**(433)	**450**(433)	**450**(433)
	With DME 2.5% Climb		**530**(513)	**530**(513)	**530**(513)
	No DME or radar range		**830**(813)	**830**(813)	**830**(813)
VM(C)OCA (OCH AAL)	Total Area		**800**(755)	**900**(855)	
	East of RWY 04/22		**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	530	430

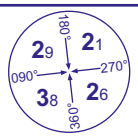
AIRCRAFT UNABLE TO RECEIVE RANGE INFORMATION
CAT A fly outbound for 3 MIN, CAT B 2.5 MIN and CAT C 2 MIN.

CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. IF ALTITUDE ON PROFILE. OCA (OCH) WITH DME 2.5%. MAG VAR. MAG TRACKS.

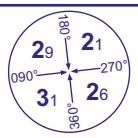
AERO INFO DATE 20 AUG 25 AD 2-EGNR-8-6

INSTRUMENT APPROACH CHART - ICAO

HAWARDEN
SRA RTR 2NM
RWY 22
(ACFT CAT A,B,C)



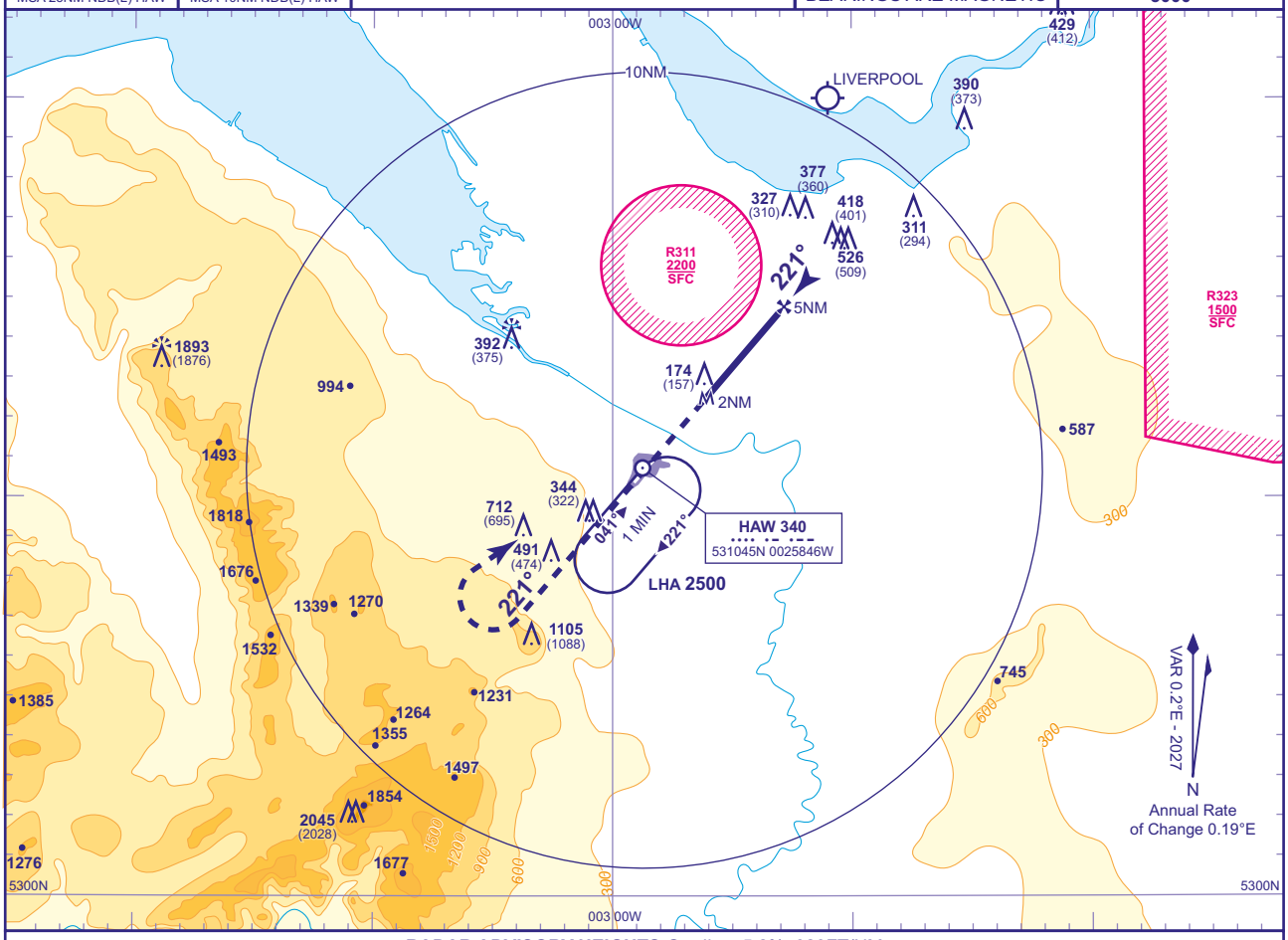
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	17
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION 2045 AMSL (2028) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



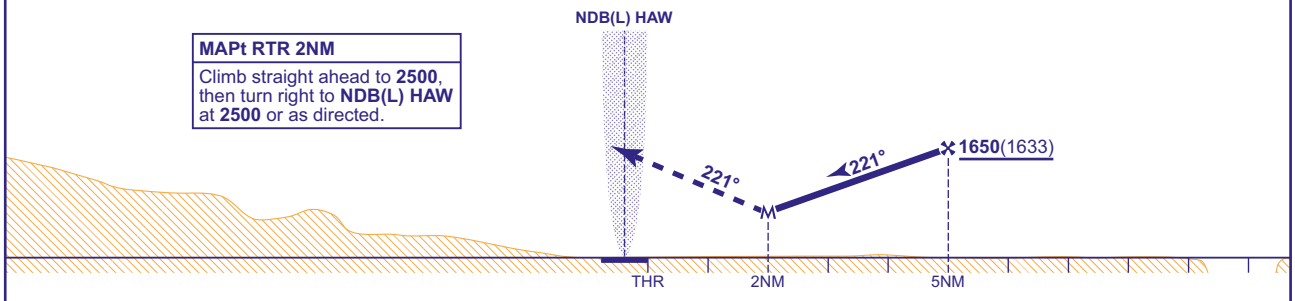
RADAR ADVISORY HEIGHTS Gradient 5.2%, 320FT/NM

NM	5	4	3	2
ALT(HGT)	**1650**(1633)	**1280**(1263)	**970**(953)	**650**(633)

Initial and intermediate approach as directed by radar.

MAPt RTR 2NM

Climb straight ahead to **2500**, then turn right to **NDB(L) HAW** at **2500** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**650**(633)	**650**(633)	**650**(633)
VM(C)OCA (OCH AAL)	Total Area	**800**(755)	**900**(855)	
	East of RWY 04/22	**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420

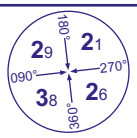
NOTE Aircraft must remain outside EGR311 at all times.

CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. MAG VAR. MAG TRACKS.

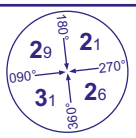
AERO INFO DATE 07 AUG 25

INSTRUMENT APPROACH CHART - ICAO

HAWARDEN NDB(L)/DME RWY 22
(ACFT CAT A,B,C)



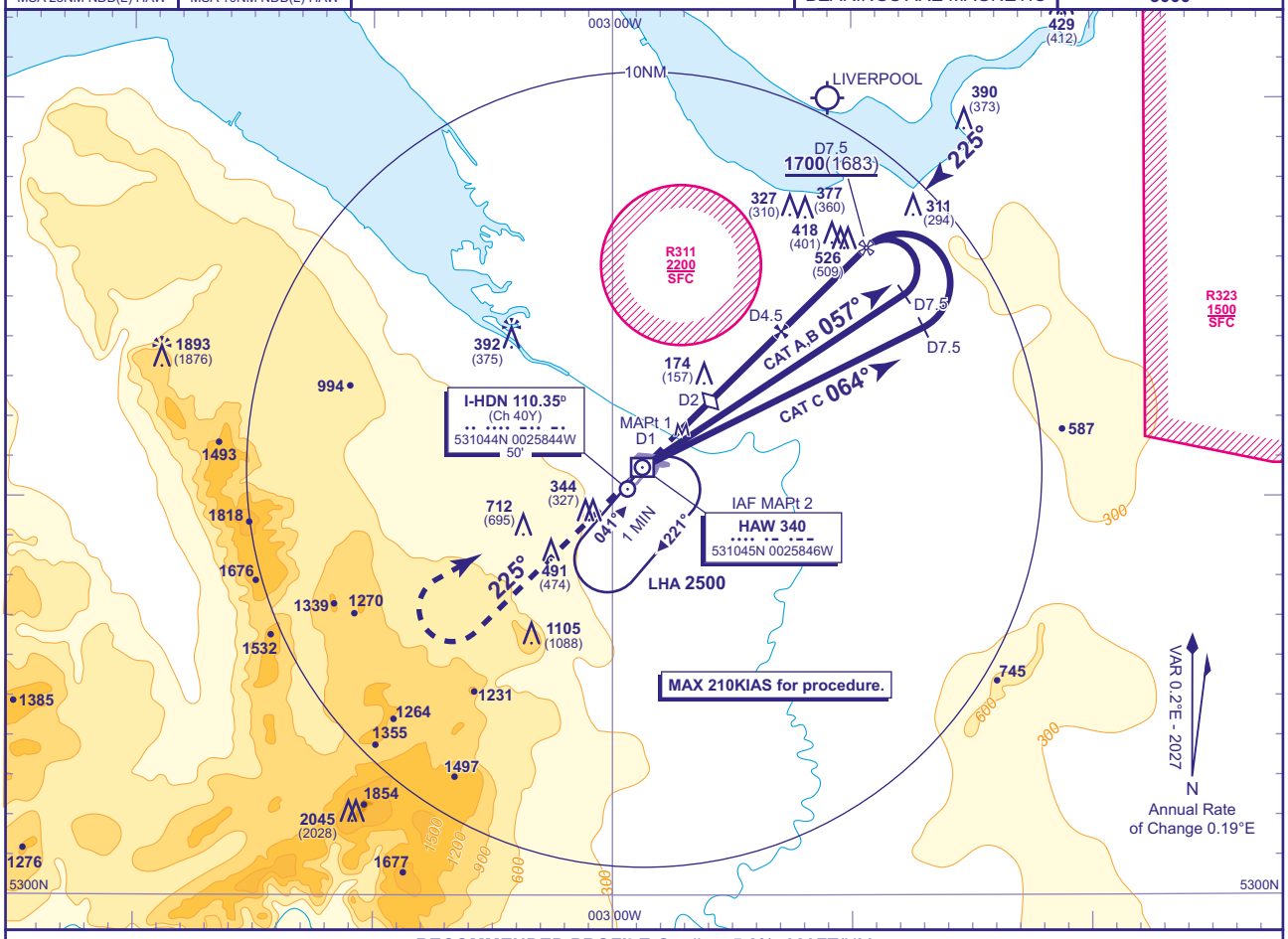
MSA 25NM NDB(L) HAW



MSA 10NM NDB(L) HAW

TWR 124.955	HAWARDEN TOWER	AD ELEVATION	45
RAD 120.055, 130.015*	HAWARDEN RADAR	THR ELEVATION	17
ATIS 125.430	HAWARDEN INFORMATION	OBSTACLE ELEVATION 2045 AMSL (2028) (ABOVE THR)	
*As directed by ATC, Not continuously monitored		BEARINGS ARE MAGNETIC	

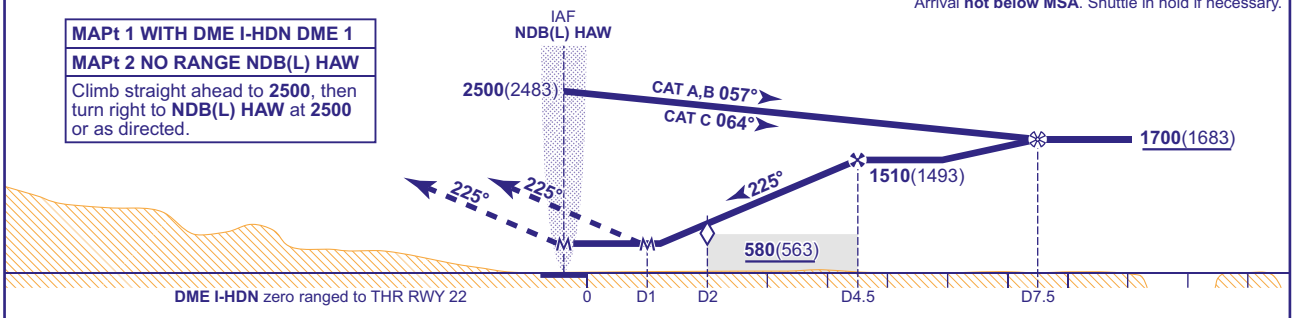
TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM			
DME I-HDN	4	3	2 **(SDF)**
ALT(HGT)	**1350**(1333)	**1030**(1013)	**710**(693)

Arrival **not below MSA**. Shuttle in hold if necessary.

MAPt 1 WITH DME I-HDN DME 1
MAPt 2 NO RANGE NDB(L) HAW
Climb straight ahead to **2500**, then turn right to **NDB(L) HAW** at **2500** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	With DME 2.5% Climb	**500**(483)	**500**(483)	**500**(483)
	With DME 3% Climb	**450**(433)	**450**(433)	**450**(433)
	Radar range only	**640**(623)	**640**(623)	**640**(623)
	No DME or radar range	**830**(813)	**830**(813)	**830**(813)
VM(C)OCA (OCH AAL)	Total Area	**800**(755)	**900**(855)	
	East of RWY 04/22	**700**(655)	**800**(755)	**1500**(1455)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	530	430

AIRCRAFT UNABLE TO RECEIVE DME I-HDN
Advise ATC. Subject to ATC approval, radar ranges will be provided at 7.5NM outbound and at 4.5NM inbound.

AIRCRAFT UNABLE TO RECEIVE RANGE INFORMATION
CAT A fly outbound for 3 MIN, CAT B 2.5 MIN and CAT C 2 MIN.

NOTE FAT is offset 4° from RWY C/L and crosses RWY C/L nominally 0.75NM before THR.

CHANGE (11/25): MSA INCREASES 25NM SE/SW QUADRANT, 10NM SE QUADRANT. IF ALTITUDE ON PROFILE. MOCA ALTITUDE. MAG VAR. MAG TRACKS.

AERO INFO DATE 19 AUG 25

EGNJ — HUMBERSIDE

EGNJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNJ — HUMBERSIDE

EGNJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 533424N Long: 0002105W Centre of Runway 02/20.
2	Direction and distance from city	11 NM S of Hull/22 NM NNE of Lincoln.
3	Elevation / Reference temperature / Mean Low Temperature	121 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	152 FT
5	Magnetic Variation / Annual Change	0.25°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax	HUMBERSIDE INTERNATIONAL AIRPORT LTD. Humberside Airport, Kirmington, Ulceby, North Lincolnshire DN39 6YH. 01652-688456 (Administration) 01652-682022 (ATC) 01652-682020 (ATIS) 07718-524072 (Terminal Supervisor during operating hours) 01652-682041 (Terminal Services) 01652-680244 (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGNJ AD 2.3 OPERATIONAL HOURS

1	AD Administration	0620-2115 (0510-2015). Note: All movements 2115-0630 (2015-0530) are Prior Permission Required (PPR), see also AD 2.20.
2	Customs and immigration	As AD hours.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	During AD hours. By prior arrangement outside of published hours.
9	Handling	As AD hours.
10	Security	As AD hours.
11	De-icing	Provided by Swissport Aircraft Services during AD hours. By prior arrangement outside published hours.
12	Remarks	Extension of opening hours available. Contact the Terminal Supervisor 07718-524072. Charges apply.

EGNJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full cargo handling facilities. Perishable Hub. DfT Approved Regulated Agent (Anglia Air Freight). 45.5 Tonnes Class 1 NEQ Loading/Unloading Capability. Section Five (Firearms Act) Approved. Nearest railway siding: Barnetby 2 NM.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL. W80, W100, Straight Mineral 80 and Straight Mineral 100.
3	Fuelling facilities/capacity	Bowser facility.
4	De-icing facilities	Kilfrost ABC - K plus, Type 2, 75/25.
5	Hangar space for visiting aircraft	Limited. Prior arrangement only.
6	Repair facilities for visiting aircraft	Limited.

7	Remarks	All aircraft operating for hire and reward, non-based international flights or aircraft above 3 tonnes MTOW, are required to be handled by a handling agent approved by the airport authority. Swissport (Commercial/Passenger/Cargo) Full Handling service available: Tel: +44 (0)1652-688491; Fax: +44 (0)1652 688060; e-mail: huy.ops@swissport.com Weston Aviation (Executive/Business Aviation) Dedicated FBO with usual passenger and crew facilities: Tel: +44 (0)1652 680922. Fax: +44 (0) 1652 680927. e-mail: humberside@westonaviation.com website: www.westonaviation.com

EGNJ AD 2.5 PASSENGER FACILITIES

1	Hotels	On site and local hotels.
2	Restaurants	Restaurant and Bar.
3	Transportation	Resident taxis, buses and car hire. Nearest railway station: Barnetby 2 NM.
4	Medical facilities	Limited first aid.
5	Bank and Post Office	Bureau de change, ATM in terminal.
6	Tourist Office	Limited tourist information.
7	Remarks	

EGNJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 Category 7 and 8 available by arrangement
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited Facilities Available. Contact Tel: 01652-682052 (RFFS Station Manager).
4	Remarks	

EGNJ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical: snow brushes, ploughs. Chemical: runway/taxiway/apron anti/de-icing dependent on conditions.
2	Clearance priorities	Available on request from airport management. Priorities are subject to change dependent on expected movements and weather conditions.
3	Remarks	Up to date surface state reports available from: ATC 01652-682022. Fax: 01652-680244. Or via SNOWTAM.

EGNJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	GA APRON Surface: Asphalt PCN 29/F/B/X/U LIGHT AIRCRAFT Surface: Grass Strength: Up to 2500 kg. MAIN APRON Surface: Concrete/Asphalt/Block. PCN 55/F/B/X/U and PCN 55/R/B/X/U. SAR APRON Surface: Concrete PCN 10/R/D/W/T SOUTHERN Surface: Concrete PCN 55/R/B/X/U

2	Taxiway width, surface and strength	Taxiway ALPHA: 23 M Surface: Asphalt PCN 55/F/B/X/U Taxiway BRAVO: 10.5 M Surface: Asphalt PCN 20/F/B/X/U Taxiway CHARLIE: 7.5 M Surface: Asphalt PCN 30/F/B/X/U Taxiway DELTA: 15 M Surface: Asphalt PCN 29/F/B/X/U Taxiway DELTA EXTENSION: 7.5 M Surface: Asphalt PCN 29/F/B/X/U between Hangar 9 and 11. Taxiway ECHO: 7.5 M Surface: Concrete PCN 20/R/B/X/U Taxiway GRASS: 7.5 M Surface: Grass Strength: Up to 2500 kg.
3	Altimeter checkpoint location and elevation	73 FT
4	VOR checkpoints	
5	INS checkpoints	See Aerodrome Chart.
6	Remarks	For Taxiway Delta and Taxiway Delta Extension, see restrictions at EGNJ AD 2.20 Local Traffic Regulations, paragraph 2, Ground Movement.

EGNJ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1, 2, 2R, 3, 5, 6 and 8 are nose-in/pushback operation for aircraft with a wingspan greater than 22 m. No guidance other than centre-line. Marshalling guidance will be given to indicate the stop position for pilots. If using stands 2N, 2S or 3N, 3S together, marshalling guidance must be provided with a maximum wingspan of 15.85 m. Stands 2N, 2S, 3N, 3S, 4R and 4 are self-manoeuvring stands for use by aircraft with a wingspan of 22 M or less. Stand 7 is a self-manoeuvring (marshalled) code D stand.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 02/20: Runway 02/20: Runway designation, landing thresholds, centre-line, touchdown and aiming point markings. Runway 02/20 Turnpad: Runway turnpad markings available on 02/20 for Boeing 767-300 or smaller. The following aircraft nose gear angles apply: Boeing 767-300 - 61 degrees required, Boeing 757/A321 - 60 degrees required. 08/26: Runway 08/26: Runway designation, landing thresholds and centre-line markings. Taxiway marking aid(s): Painted centre-line and appropriate taxi-holding point markings available on all taxiways. Taxiway light(s): Alpha: Coded green centre-line & blue edge lights, runway guard lights. Bravo: Green centre-line reflective markers and runway guard lights. Charlie: Blue edge lights and runway guard lights. Delta: Blue edge reflective markers. Echo: Green centre-line reflective markers.
3	Stop bars and runway guard lights (if any)	At runway Holding Point Alpha.
4	Other runway protection measures	
5	Remarks	WDI: 533406.02N 0002126.73W (threshold Runway 02, LGTD); 533452.35N 0002037.47W (threshold Runway 20, LGTD); 533422.78N 0002059.32W (midpoint Runway 02/20). Apron floodlights. Due to apron congestion, jet aircraft are to apply minimum thrust when starting and when taxiing.

EGNJ AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNJ8150) 20/APPROACH 02/ TAKE-OFF	TREE	533541.97N 0002011.41W	181 FT	109 FT	No	
(EGNJ6396) 20/APPROACH 02/ TAKE-OFF	TREE	533538.00N 0002009.75W	175 FT	102 FT	No	
(EGNJ6395) 20/APPROACH 02/ TAKE-OFF	TREE	533537.17N 0002009.43W	176 FT	103 FT	No	
(EGNJ8137) 20/APPROACH 02/ TAKE-OFF	TREE	533528.38N 0002008.31W	137 FT	65 FT	No	
(EGNJ8120) 20/APPROACH 02/ TAKE-OFF	TREE	533510.23N 0002024.77W	110 FT	50 FT	No	
(EGNJ5689) 20/APPROACH 02/ TAKE-OFF	ROAD	533502.70N 0002044.07W	86 FT	18 FT	No	
(EGNJ6084) 02/APPROACH 20/ TAKE-OFF	ANEMOMETER	533356.24N 0002130.58W	141 FT	24 FT	No	
(EGNJ6330) 02/APPROACH 20/ TAKE-OFF	FENCE	533353.21N 0002131.63W	127 FT	5 FT	No	
(EGNJ6343) 02/APPROACH 20/ TAKE-OFF	FENCE	533350.46N 0002123.71W	141 FT	5 FT	No	
(EGNJ6341) 02/APPROACH 20/ TAKE-OFF	FENCE	533348.55N 0002124.85W	146 FT	6 FT	No	
(EGNJ6340) 02/APPROACH 20/ TAKE-OFF	FENCE	533347.56N 0002125.43W	149 FT	5 FT	No	
(EGNJ6339) 02/APPROACH 20/ TAKE-OFF	FENCE	533346.58N 0002126.02W	153 FT	6 FT	No	
(EGNJ7861) 02/APPROACH 20/ TAKE-OFF	BUSH	533345.77N 0002127.39W	155 FT	9 FT	No	
(EGNJ7880) 02/APPROACH 20/ TAKE-OFF	HEDGE	533334.34N 0002128.29W	179 FT	11 FT	No	
(EGNJ7896) 02/APPROACH 20/ TAKE-OFF	TREE	533327.02N 0002133.91W	209 FT	31 FT	No	
(EGNJ7893) 02/APPROACH 20/ TAKE-OFF	TREE	533325.65N 0002131.53W	216 FT	28 FT	No	
(EGNJ7892) 02/APPROACH 20/ TAKE-OFF	TREE	533325.14N 0002130.53W	220 FT	28 FT	No	
(EGNJ7935) 02/APPROACH 20/ TAKE-OFF	TREE	533309.72N 0002217.70W	234 FT	39 FT	No	
(EGNJ3823) 02/APPROACH 20/ TAKE-OFF	TELEPOLE	533256.54N 0002206.38W	232 FT	30 FT	No	
(EGNJ3822) 02/APPROACH 20/ TAKE-OFF	TELEPOLE	533254.61N 0002202.59W	249 FT	30 FT	No	
(EGNJ7914) 02/APPROACH 20/ TAKE-OFF	TREE	533248.51N 0002201.05W	256 FT	29 FT	No	
(EGNJ7917) 02/APPROACH 20/ TAKE-OFF	TREE	533242.60N 0002212.58W	267 FT	29 FT	No	
(EGNJ7132) 02/APPROACH 20/ TAKE-OFF	TREE	533239.22N 0002219.17W	275 FT	30 FT	No	
(EGNJ7925) 02/APPROACH 20/ TAKE-OFF	TREE	533237.71N 0002222.22W	281 FT	33 FT	No	
(EGNJ7504) 02/APPROACH 20/ TAKE-OFF	TREE	533236.09N 0002225.34W	284 FT	34 FT	No	
(EGNJ7929) 02/APPROACH 20/ TAKE-OFF	TREE	533234.68N 0002228.30W	293 FT	42 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNJ3755)	PYLON	533937.03N 0002853.51W	397 FT	164 FT	No	
(EGNJ3752)	PYLON	533934.97N 0002831.51W	396 FT	186 FT	No	
(EGNJ7150)	FLARESTACK	533854.88N 0001511.11W	525 FT	500 FT	Yes Red	
(EGNJ3715)	PYLON	533844.36N 0002333.68W	326 FT	163 FT	No	
(EGNJ2676)	CHIMNEY	533837.06N 0001520.57W	492 FT	453 FT	Yes Red	
(EGNJ2705)	FLARESTACK	533806.15N 0001440.63W	475 FT	453 FT	No	
(EGNJ6327)	MAST	533636.42N 0002615.95W	556 FT	274 FT	Yes Red	
(EGNJ7446)	TREE	533538.99N 0002314.50W	292 FT	90 FT	No	
(EGNJ7445)	TREE	533538.70N 0002311.31W	294 FT	92 FT	No	
(EGNJ7378)	TREE	533454.99N 0001651.64W	251 FT	140 FT	No	
(EGNJ7377)	TREE	533454.30N 0001653.80W	240 FT	128 FT	No	
(EGNJ8087)	TREE	533449.72N 0001845.95W	231 FT	106 FT	No	
(EGNJ7701)	TREE	533448.76N 0001842.53W	236 FT	102 FT	No	
(EGNJ7699)	TREE	533447.37N 0001837.45W	240 FT	99 FT	No	
(EGNJ7489)	TREE	533315.86N 0002307.98W	335 FT	36 FT	No	
(EGNJ6561)	TREE	533313.57N 0002311.47W	339 FT	35 FT	No	
(EGNJ7847)	TREE	533304.15N 0002025.14W	385 FT	115 FT	No	
(EGNJ7492)	TREE	533300.83N 0002249.90W	331 FT	62 FT	No	
(EGNJ7276)	TREE	533256.92N 0002020.86W	374 FT	106 FT	No	
(EGNJ7275)	TREE	533256.26N 0002015.62W	372 FT	105 FT	No	
(EGNJ4065)	MONUMENT	533103.78N 0001755.68W	570 FT	130 FT	No	
(EGNJ4068)	PYLON	533031.35N 0001823.21W	527 FT	100 FT	No	
(EGNJ4063)	PYLON	533029.87N 0001808.98W	588 FT	138 FT	No	
(EGNJ4894)	MAST	532942.24N 0001815.17W	654 FT	191 FT	No	
(EGNJ4893)	MAST	532934.44N 0001815.34W	618 FT	154 FT	No	
(EGNJ4891)	MAST	532929.36N 0001811.30W	611 FT	147 FT	No	

EGNJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours

4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Warnings. METFORM: 214 and 215.
8	Supplementary equipment available for providing information	Internet access available in flight briefing room.
9	ATS units provided with information	HUMBERSIDE
10	Additional information (limitation of service, etc.)	

EGNJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
02	022.37°	2200 x 45 M	RWY surface: Concrete and asphalt PCN 47/F/B/X/T and PCN 54/R/B/X/T	533355.19N 0002125.41W 151.5 FT	THR 121.1 FT TDZ 121.1 FT	RWY 02: 0.7% Down RWY 20: 0.7% Up
20	202.38°	2200 x 45 M	RWY surface: Concrete and asphalt PCN 47/F/B/X/T and PCN 54/R/B/X/T	533453.52N 0002045.08W 151.5 FT	THR 73.9 FT TDZ 92.3 FT	RWY 02: 0.7% Down RWY 20: 0.7% Up
08	082.41°	990 x 18 M	RWY surface: Asphalt PCN 20/F/B/X/U	533433.16N 0002112.52W 151.5 FT	THR 86.8 FT	RWY 08: 0.15% Down RWY 26: 0.15% Up
26	262.42°	990 x 18 M	RWY surface: Asphalt PCN 20/F/B/X/U	533436.16N 0002034.71W 151.5 FT	THR 83.4 FT	RWY 08: 0.15% Down RWY 26: 0.15% Up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
	138 x 150 M	2260 x 280 M				RWY 02 500 M at south west end (concrete) is rigid pavement, remainder is flexible. The RESA at Runway 20 departure and Runway 02 landing has a transverse slope of 5.2% on the southeast side due rising ground. The ground level 50 M southeast of threshold Runway 02 has a tranverse slope of 3.3%.
		2260 x 280 M				RWY 20 Landing threshold displaced by 250 M. 500 M at south west end (concrete) is rigid pavement, remainder is flexible. The RESA at Runway 20 departure and Runway 02 landing has a transverse slope of 5.2% on the southeast side due rising ground. OFZ: Yes.
30 x 18 M		1050 x 60 M				RWY 08
		1050 x 60 M				RWY 26 Landing threshold displaced by 288 M.

EGNJ AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02	2070 M	2208 M	2070 M	2070 M	
20	2196 M	2196 M	2196 M	1950 M	TORA, ASDA and TODA start at red lights across runway.
02	786 M	924 M	786 M		Take off from abeam Holding point U.
02	761 M	899 M	761 M		Take off from abeam Holding point S.
20	1827 M	1827 M	1827 M		Take off from abeam Holding point A.
20	1327 M	1327 M	1327 M		Take off from abeam Holding point S.
20	1301 M	1301 M	1301 M		Take off from abeam Holding point U.
08	769 M	769 M	799 M	799 M	
26	799 M	799 M	799 M	702 M	

EGNJ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02	Coded centre-line with five crossbars. 840 M Light intensity high	HI elevated green with elevated wingbars	PAPI Left/3.5° 51 FT 390 M		Coded centre-line 30 M spacing Light intensity high	HI bi-directional with LI omni-directional component	Red Light intensity high elevated		EDGE: Blue edge lights at turning areas. END: The red lights across the runway mark the end of usable pavement.
20	Coded centre-line with five crossbars. 912 M Light intensity high	HI inset green with elevated wingbars	PAPI Left/3° 53 FT 325 M		Coded centre-line 30 M spacing Light intensity high	HI bi-directional with LI omni-directional component	Red Light intensity high elevated		EDGE: Blue edge lights at turning areas.

EGNJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Located at 533356.24N 0002130.58W - 533442.24N 0002044.04W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	15 seconds or less (1 second or less during LVP departures of <800 M RVR).
5	Remarks	Obstacle marking and lighting: Localizer aerial – Glide Path aerial – NDB aerial – Radar – Windsleeves – Control Tower – Fire Station Watch Tower

EGNJ AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Heliport Helicopter Stands: H9, H10 and H11 - Up to AW139. H12 - Up to MD900. Southern Apron: H6, H7 and H8 - Up to AW139. Main Apron: H1N and H1S - Up to AW139. SAR Apron: HS1 and HS2 - Up to S92.

EGNJ AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
HUMBERSIDE ATZ A circle, 2.5 NM radius, centred at 533424N 0002105W on longest notified runway (02/20)	Upper limit: 2000 FT AGL Lower limit: SFC	G	HUMBERSIDE RADAR English	3000 FT		SAR operations may occur H24, including outside of the operating hours of the aerodrome and ATZ. Pilots are recommended to make a blind call on the Humberside Tower channel 124.905 MHz when the aerodrome is published closed and they are transiting through or close to the ATZ.

EGNJ AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	HUMBERSIDE APPROACH	119.130 DOC 50 NM/ 25,000 FT.			0620-2115 (0510-2015).	ATZ hours coincident with Approach hours.
TWR	HUMBERSIDE TOWER	119.130 DOC 50 NM/ 25,000 FT.			As directed by ATC.	
		124.905 DOC 25 NM/4,000 FT.			0620-2115 (0510-2015).	
RADAR	HUMBERSIDE RADAR	119.130			0620-2115 (0510-2015).	LARS is provided coincident with Approach hours.
		129.255 DOC 40 NM/ 20,000 FT.			As directed by ATC.	
ATIS	HUMBERSIDE INFORMATION	124.130 DOC 60 NM/ 20,000 FT.			0620-2115 (0510-2015).	
OTHER	HUMBERSIDE FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNJ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.11°E (2027)	IHS	108.750 MHz	0620-2115 (0510-2015).	533345.94N 0002131.80W		(RWY 20)
ILS/GP	IHS	330.350 MHz	0620-2115 (0510-2015).	533442.66N 0002044.42W		3° ILS Ref Datum Hgt 54 FT.
NDB (L) 1.11°E (2027)	KIM	365.000 kHz	0620-2115 (0510-2015).	533426.49N 0002113.61W		On AD. Range 15 NM.
ILS/DME	IHS	24Y 108.750 MHz	0620-2115 (0510-2015).	533426.24N 0002112.52W	111 FT	(RWY 20) On AD. Freq paired with ILS I-HS. Zero range is indicated at THR of Runway 02 and 20.

EGNJ AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of this aerodrome is subject to Standard Conditions of Use, contained within the Fees and Charges booklet, a copy of which can be found at https://www.humbersideairport.com/about-us/fees-and-charges/, or requested from the Finance department, Tel: +44 (0)1652-682032 or by e-mail: enquiries@humbersideairport.com.
b) Taxiway/Taxilane Delta - Code C (Restricted) – Delta strip width is 41 M (physical width is 15 M); wingspan is limited to 32 M with a main gear span of 9 M or less and a main wheel base of less than 18 M.
c) Taxiway/Taxilane Delta Extension - Code A (Extended) – Delta strip width is 41 M (physical width is 7.5 M); wingspan is limited to 32 M with a main gear span of 4.5 M or less.
d) Ground running of aircraft engines above ground idle power is not permitted on apron areas. All ground running between 2115-0630 (2015-0530) is subject to prior approval by ATC.
e) Aircrew are to wear Hi-visibility jackets whilst on apron areas and all visiting pilots are required to carry photographic identification.
f) Not available to aircraft unable to communicate by radio with ATC.
g) All movements between 2115-0630 (2015-0530) are PPR; note that the airport reserves the right to close on Public Holidays and is normally closed on 25 December and 1 January. All requests to operate within PPR notified hours are to be made through the Terminal Supervisor, Tel: 07718-524072; fees and charges will apply. Requests for extension to operating hours made less than 2 hours before notified closing time cannot be guaranteed.

2 GROUND MOVEMENT

a) Non-Handled visiting aircraft under 3 tonnes are to report to the Vehicle Control Post adjacent to the apron (marked by an illuminated C). Please keep to designated walkways. High visibility clothing must be worn on Apron areas.

3 CAT II/III OPERATIONS

a) Humberside Airport is not equipped for CAT II/III operations; however, Low Visibility Procedures (LVP) are used to protect CAT I operations.
b) Preparation for LVP will commence when the RVR is 1000 M and falling.
c) Pilots will be informed when LVP are in operation by ATIS or by RTF.
d) Runway Departure Restriction: See paragraph 6 (f) below.

4 WARNINGS

a) Light aircraft are warned of the possible effect of wake turbulence by preceding helicopters on approach or departure.
b) Light aircraft should also be aware of the possible effect of rotor downwash generated by large helicopters operating through the main apron area.
c) **Caution:** Pilots are reminded that parachuting takes place at Hibaldstow unlicensed aerodrome between FL 160 and ground level.
d) Concentrations of birds in/on agricultural areas on the approaches to all runways. Deterrent measures within the aerodrome's boundaries are carried out by the Bird Control Unit and pilots may be requested by ATC to delay a departure or arrival if bird concentrations within the Bird Control Unit's area of control prove difficult to disperse.
e) Helicopter Main Routing Indicators (HMRIs) are established between Humberside and the Southern North Sea off-shore safety area.
f) **Caution:** Pilots are reminded of the close proximity of EGD307 Donna Nook; Military aircraft performing high energy manoeuvres and unable to conform to the Rules of the Air.

g) Rising ground infringes the approach surface of Runway 02 (1:50) for the final 1000 M. Maximum penetration above the 1:50 is 4.18 M at a distance of 250 M from the threshold, 90 M right of centre-line.
h) Rising ground penetrates the Take-off and Climb Surface of Runway 20 (1:50) out to a distance of 1000 M. Maximum penetration above 1:50 is 4.18 M at a distance of 250 M from the threshold, 90 M to the left of centre-line.
i) A wooden post and rail fencing adds a further 1.3 M to the rising ground.
j) SAR operations may occur H24, including outside of the operating hours of the aerodrome and ATZ. Pilots are recommended to make a blind call on the Humberside Tower channel 124.905 MHz when the aerodrome is published closed and they are transiting through or close to the ATZ.

5 HELICOPTER OPERATIONS

a) Helicopters to land as instructed by ATC.
b) Air taxiing to be conducted with caution due to apron congestion.
c) Rotor running refuelling is subject to prior agreement and 30 minutes notice.

6 USE OF RUNWAYS

a) Jet aircraft to carry out right hand circuits when landing on Runway 20.
b) Aircraft taxiing for departure on Runway 02 or landing on Runway 20 with a MTWA of 9000 KG or more must either use the turning circle facilities or the concrete runway surface to carry out 180° turns.
c) Aircraft taxiing for departure on Runway 20 with a MTWA of 9000 KG or more must either use the turning circle facility or must be north of the Runway 20 Threshold when carrying out 180° turns.
d) Aircraft with a MTWA of less than 9000 KG must use as much of the available runway width as possible, when turning to backtrack on the tarmac section of Runway 02/20.
e) Runway 08/26 is restricted to aircraft with an all up weight of less than 5000 KG. Restriction does not apply to rotary aircraft (tiltrotor aircraft are not authorised to use Runway 08/26).
f) Use of Runway 08/26 is available only during daylight hours.
g) Runway Departure Restriction: Departures in RVR conditions of less than 400 M are not permitted unless an AOC holder has a less restrictive EASA or State authorised take-off minima.

7 TRAINING

a) Training flights are subject to prior approval and acceptance by ATC. When accepting training flights, ATC may issue slot times.
b) Limited availability for Instrument Training Flights.

EGNJ AD 2.21 NOISE ABATEMENT PROCEDURES

a) Aircraft should avoid overflying local villages; Kirmington, Searby, Grasby, Barnetby and the grounds of Brocklesby House.

EGNJ AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.
b) SRA availability limited, please check prior to arrival if required.

2 UK FIS

a) Public Transport aircraft with a MAUW greater than 5000 KG operating under IFR will be provided with a Deconfliction Service unless requested otherwise.

3 DEPARTURES JOINING THE AIRWAY SYSTEM

a) Flight plans are to be submitted to join at GOLES or OTBED.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGNJ AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNJ AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNJ-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGNJ-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNJ-5-1
INSTRUMENT APPROACH CHART SRA RTR 1NM/2NM RWY 02 - ICAO
AD 2.EGNJ-8-1
INSTRUMENT APPROACH CHART RNP RWY 02 - ICAO
AD 2.EGNJ-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 02 - ICAO
AD 2.EGNJ-8-3
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 20 - ICAO
AD 2.EGNJ-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 20 - ICAO
AD 2.EGNJ-8-5
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 20 - ICAO
AD 2.EGNJ-8-6
INSTRUMENT APPROACH CHART RNP RWY 20 - ICAO
AD 2.EGNJ-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 20 - ICAO
AD 2.EGNJ-8-8
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 02
AD 2.EGNJ-8-9
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 20
AD 2.EGNJ-8-10

EGNJ AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

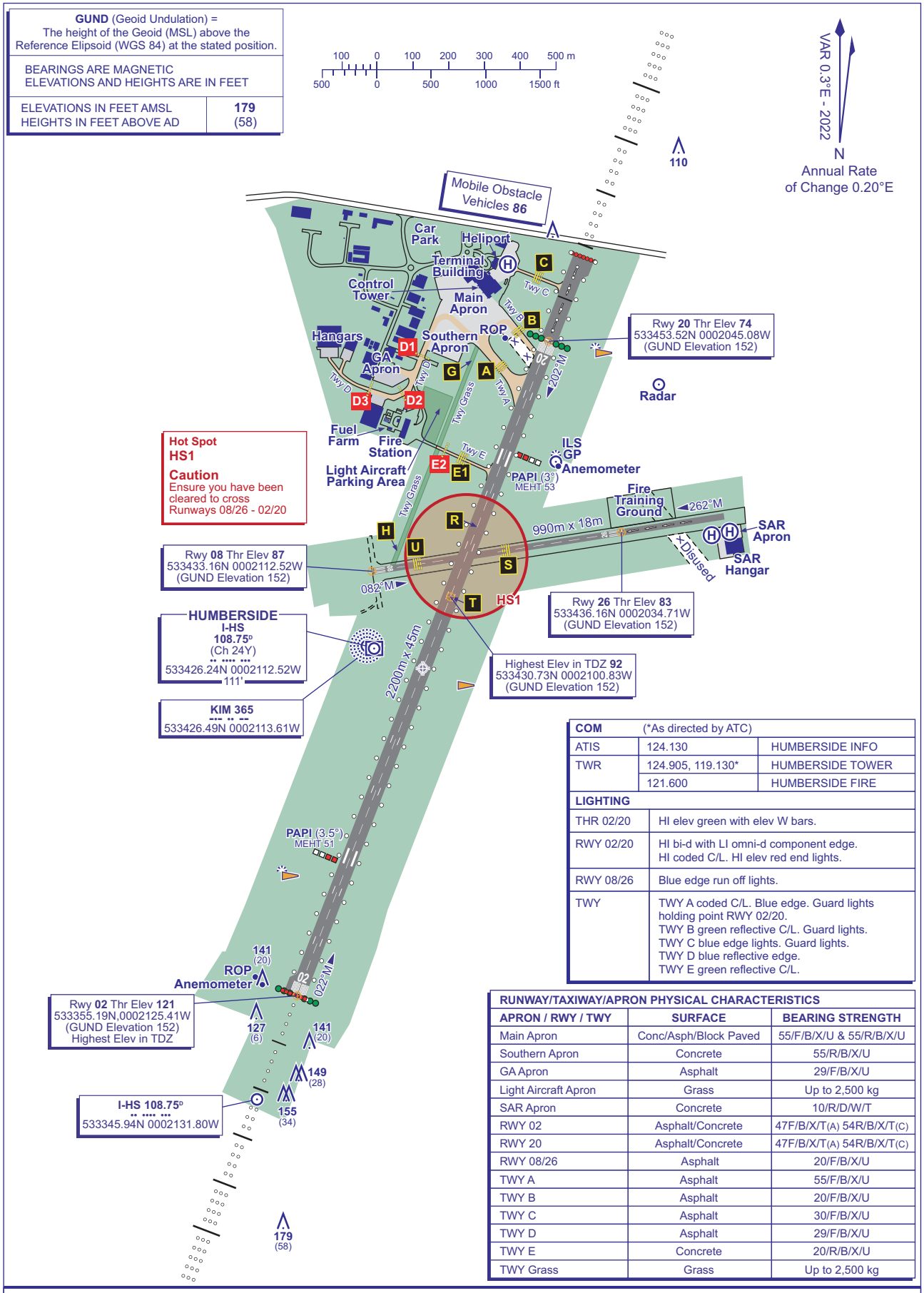
AERODROME CHART - ICAO

ARP 533424N 0002105W

AD ELEV 121FT

HUMBERSIDE
EGNJ

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**179** (58)



COM	(*As directed by ATC)	
ATIS	124.130	HUMBERSIDE INFO
TWR	124.905, 119.130*	HUMBERSIDE TOWER
	121.600	HUMBERSIDE FIRE
LIGHTING		
THR 02/20	HI elev green with elev W bars.	
RWY 02/20	HI bi-d with LI omni-d component edge. HI coded C/L. HI elev red end lights.	
RWY 08/26	Blue edge run off lights.	
TWY	TWY A coded C/L. Blue edge. Guard lights holding point RWY 02/20. TWY B green reflective C/L. Guard lights. TWY C blue edge lights. Guard lights. TWY D blue reflective edge. TWY E green reflective C/L.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS

APRON / RWY / TWY	SURFACE	BEARING STRENGTH
Main Apron	Conc/Asph/Block Paved	55/F/B/X/U & 55/R/B/X/U
Southern Apron	Concrete	55/R/B/X/U
GA Apron	Asphalt	29/F/B/X/U
Light Aircraft Apron	Grass	Up to 2,500 kg
SAR Apron	Concrete	10/R/D/W/T
RWY 02	Asphalt/Concrete	47F/B/X/T(A) 54R/B/X/T(C)
RWY 20	Asphalt/Concrete	47F/B/X/T(A) 54R/B/X/T(C)
RWY 08/26	Asphalt	20/F/B/X/U
TWY A	Asphalt	55/F/B/X/U
TWY B	Asphalt	20/F/B/X/U
TWY C	Asphalt	30/F/B/X/U
TWY D	Asphalt	29/F/B/X/U
TWY E	Concrete	20/R/B/X/U
TWY Grass	Grass	Up to 2,500 kg

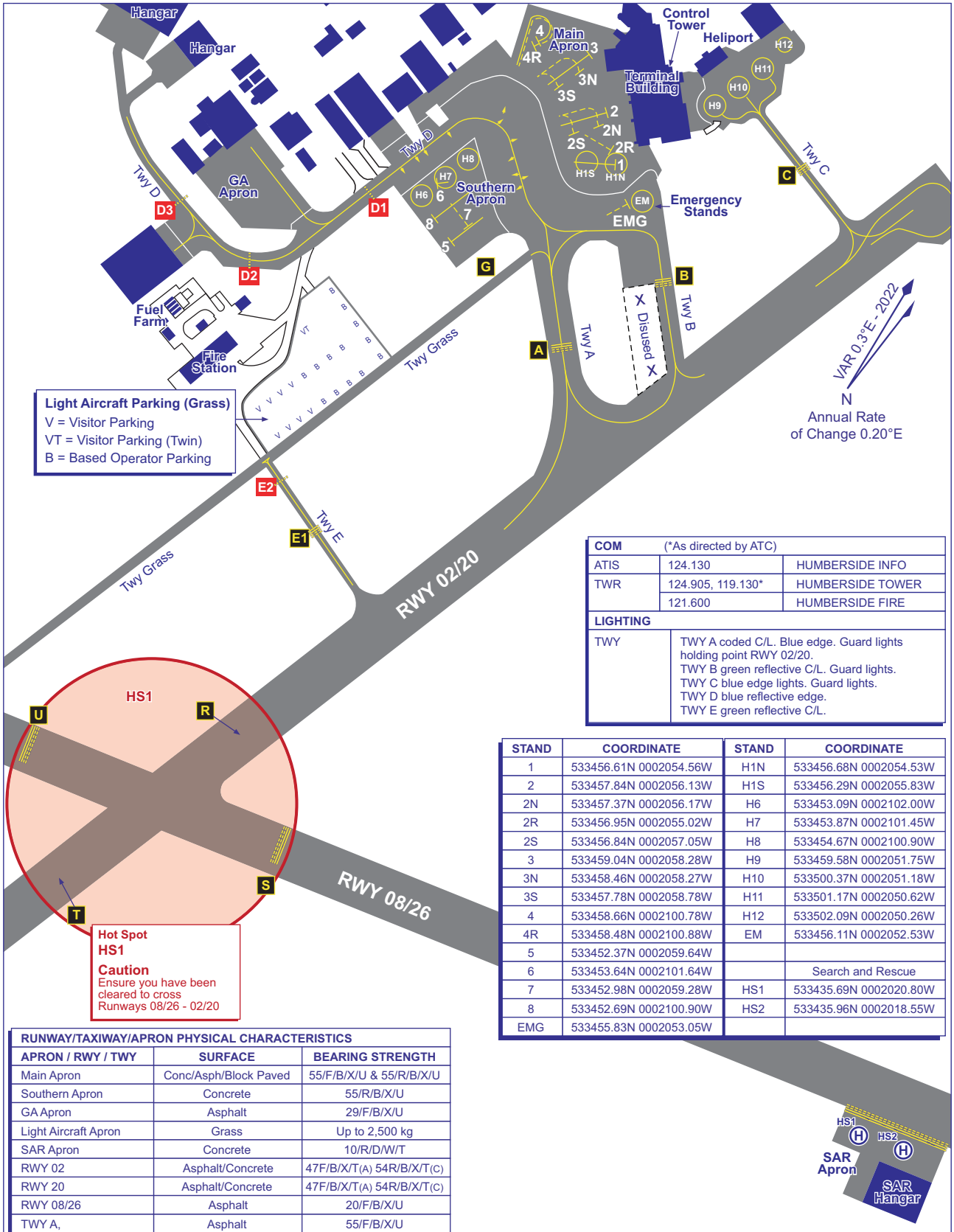
CHANGE (10/24): ELEV THR & END LIGHTS IN CONFIGURATION TABLE.

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 533424N 0002105W

AD ELEV 121FT

HUMBERSIDE
EGNJ



COM	(*As directed by ATC)	
ATIS	124.130	HUMBERSIDE INFO
TWR	124.905, 119.130*	HUMBERSIDE TOWER
	121.600	HUMBERSIDE FIRE
LIGHTING		
TWY	TWY A coded C/L. Blue edge. Guard lights holding point RWY 02/20. TWY B green reflective C/L. Guard lights. TWY C blue edge lights. Guard lights. TWY D blue reflective edge. TWY E green reflective C/L.	

STAND	COORDINATE	STAND	COORDINATE
1	533456.61N 0002054.56W	H1N	533456.68N 0002054.53W
2	533457.84N 0002056.13W	H1S	533456.29N 0002055.83W
2N	533457.37N 0002056.17W	H6	533453.09N 0002102.00W
2R	533456.95N 0002055.02W	H7	533453.87N 0002101.45W
2S	533456.84N 0002057.05W	H8	533454.67N 0002100.90W
3	533459.04N 0002058.28W	H9	533459.58N 0002051.75W
3N	533458.46N 0002058.27W	H10	533500.37N 0002051.18W
3S	533457.78N 0002058.78W	H11	533501.17N 0002050.62W
4	533458.66N 0002100.78W	H12	533502.09N 0002050.26W
4R	533458.48N 0002100.88W	EM	533456.11N 0002052.53W
5	533452.37N 0002059.64W		
6	533453.64N 0002101.64W		Search and Rescue
7	533452.98N 0002059.28W	HS1	533435.69N 0002020.80W
8	533452.69N 0002100.90W	HS2	533435.96N 0002018.55W
EMG	533455.83N 0002053.05W		

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
Main Apron	Conc/Asph/Block Paved	55/F/B/X/U & 55/R/B/X/U
Southern Apron	Concrete	55/R/B/X/U
GA Apron	Asphalt	29/F/B/X/U
Light Aircraft Apron	Grass	Up to 2,500 kg
SAR Apron	Concrete	10/R/D/W/T
RWY 02	Asphalt/Concrete	47F/B/X/T(A) 54R/B/X/T(C)
RWY 20	Asphalt/Concrete	47F/B/X/T(A) 54R/B/X/T(C)
RWY 08/26	Asphalt	20/F/B/X/U
TWY A,	Asphalt	55/F/B/X/U
TWY B	Asphalt	20/F/B/X/U
TWY C	Asphalt	30/F/B/X/U
TWY D	Asphalt	29/F/B/X/U
TWY E	Concrete	20/R/B/X/U
TWY Grass	Grass	Up to 2,500 kg

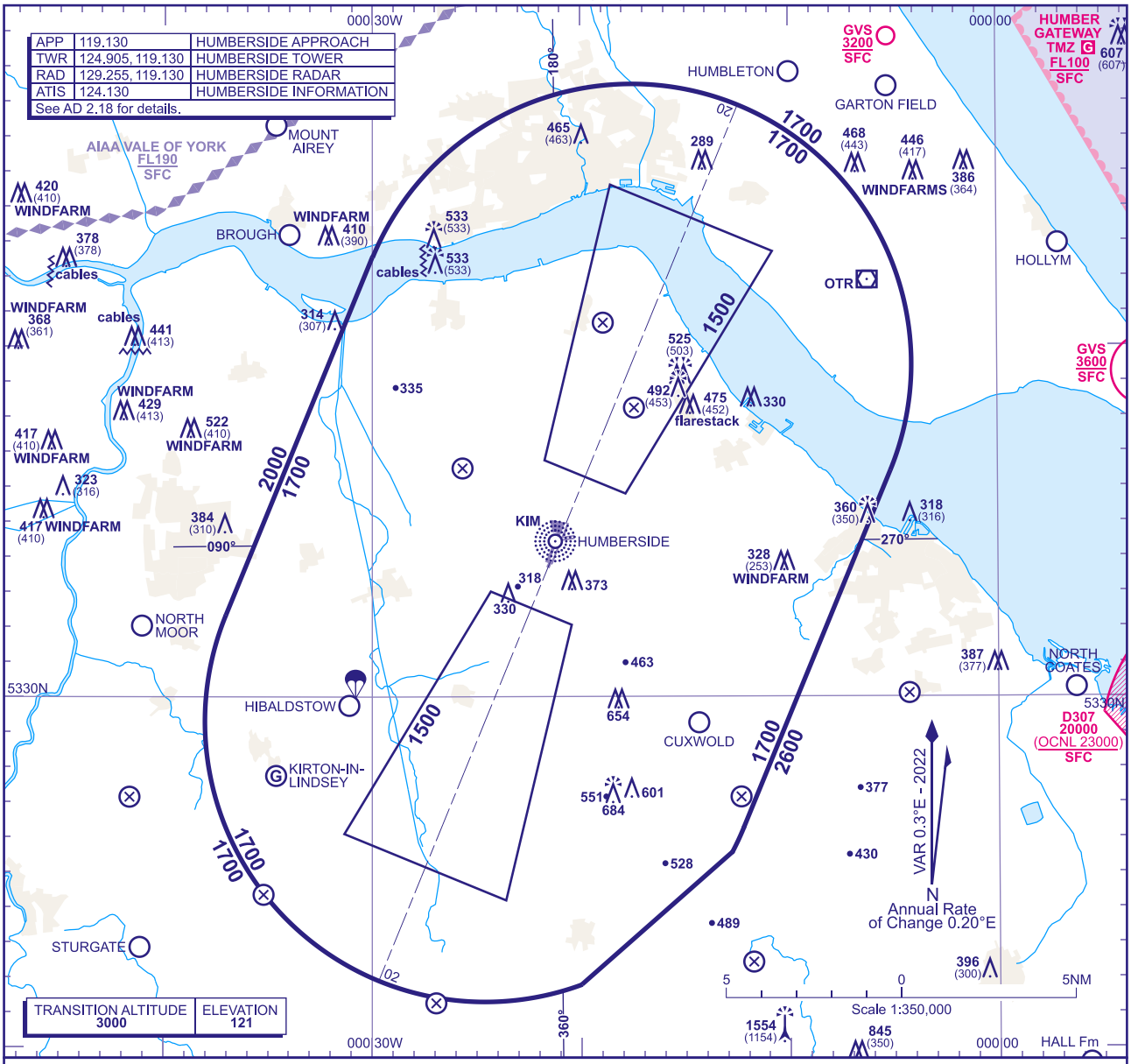
CHANGE (7/24): BUILDINGS. STAND COORDS ADDED. EDITORIAL.

AERO INFO DATE 30 APR 24

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1554
HEIGHTS IN FEET AGL (1154)

HUMBERSIDE



MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is **1700** in the sector defined by the lateral limits; 533220N 0003701W - 534233N 0003000W thence clockwise by an arc of a circle radius 8NM centred on 533930N 0001733W to 533627N 0000508W - 532616N 0001214W thence clockwise by an arc of a circle radius 8NM centred on 532918N 0002436W to 532534N 0001247W - 532148N 0001959W thence clockwise by an arc of a circle radius 8NM centred on 532918N 0002436W to 533220N 0003701W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:
a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.
*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher to **NDB(L) KIM**†.
Intermedlate and FInal Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) KIM**†.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of **NDB(L) KIM**.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

AERO INFO DATE 12 JUN 25

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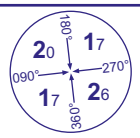
INSTRUMENT APPROACH CHART - ICAO

HUMBERSIDE SRA RTR 1NM / 2NM RWY 02

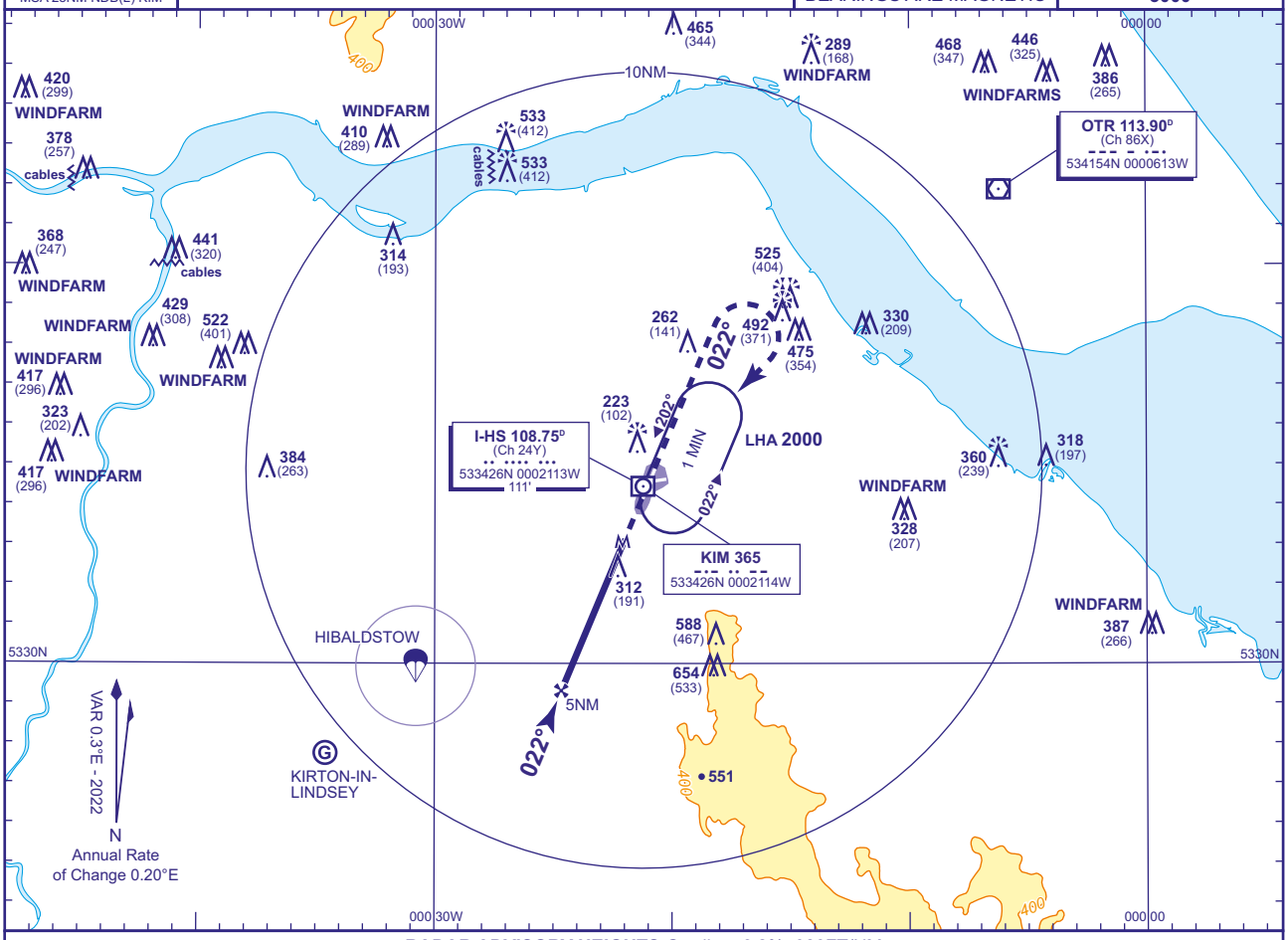
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) KIM

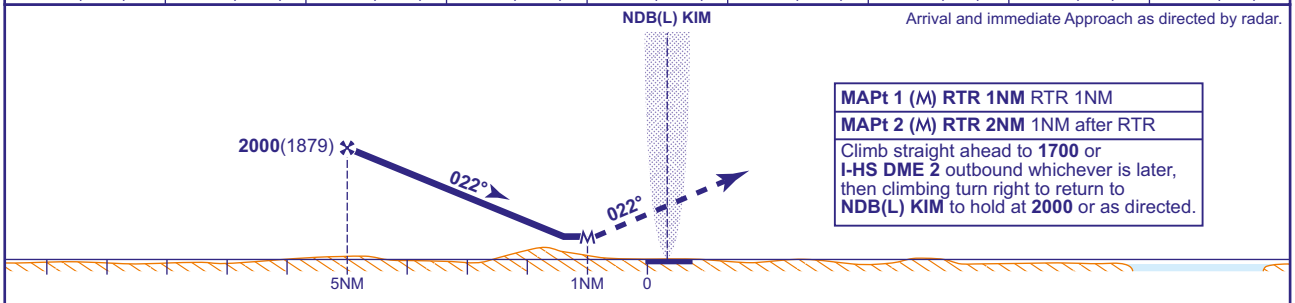
APP	119.130	HUMBERSIDE APPROACH	AD ELEVATION	121
TWR	124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION	121
RAD	119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION	654 AMSL (533) (ABOVE THR)
ATIS	124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RADAR ADVISORY HEIGHTS Gradient 6.2%, 380FT/NM

NM	5.0	4.5	4	3.5	3	2.5	2	1.5
ALT(HGT)	**2000**(1879)	**1810**(1689)	**1620**(1499)	**1440**(1319)	**1250**(1129)	**1060**(939)	**870**(749)	**680**(559)



Aircraft Category		A	B	C	D
OCA (OCH)	SRA RTR 1NM	**640**(519)	**640**(519)	**640**(519)	**640**(519)
	SRA RTR 2NM	**640**(519)	**640**(519)	**640**(519)	**640**(519)
VM(C)OCA (OCH AAL)	Total Area	**690**(569)	**690**(569)	**990**(869)	**1050**(929)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1000	880	750	630	500
RTR 2NM to MAPt 2	MIN:SEC	0:22	0:26	0:30	0:36	0:45

CHANGE (7/24): DME I-HS ELEVATION.

AERO INFO DATE 24 APR 24

INSTRUMENT APPROACH CHART - ICAO

HUMBERSIDE
RNP
RWY 02
(ACFT CAT A,B,C,D)

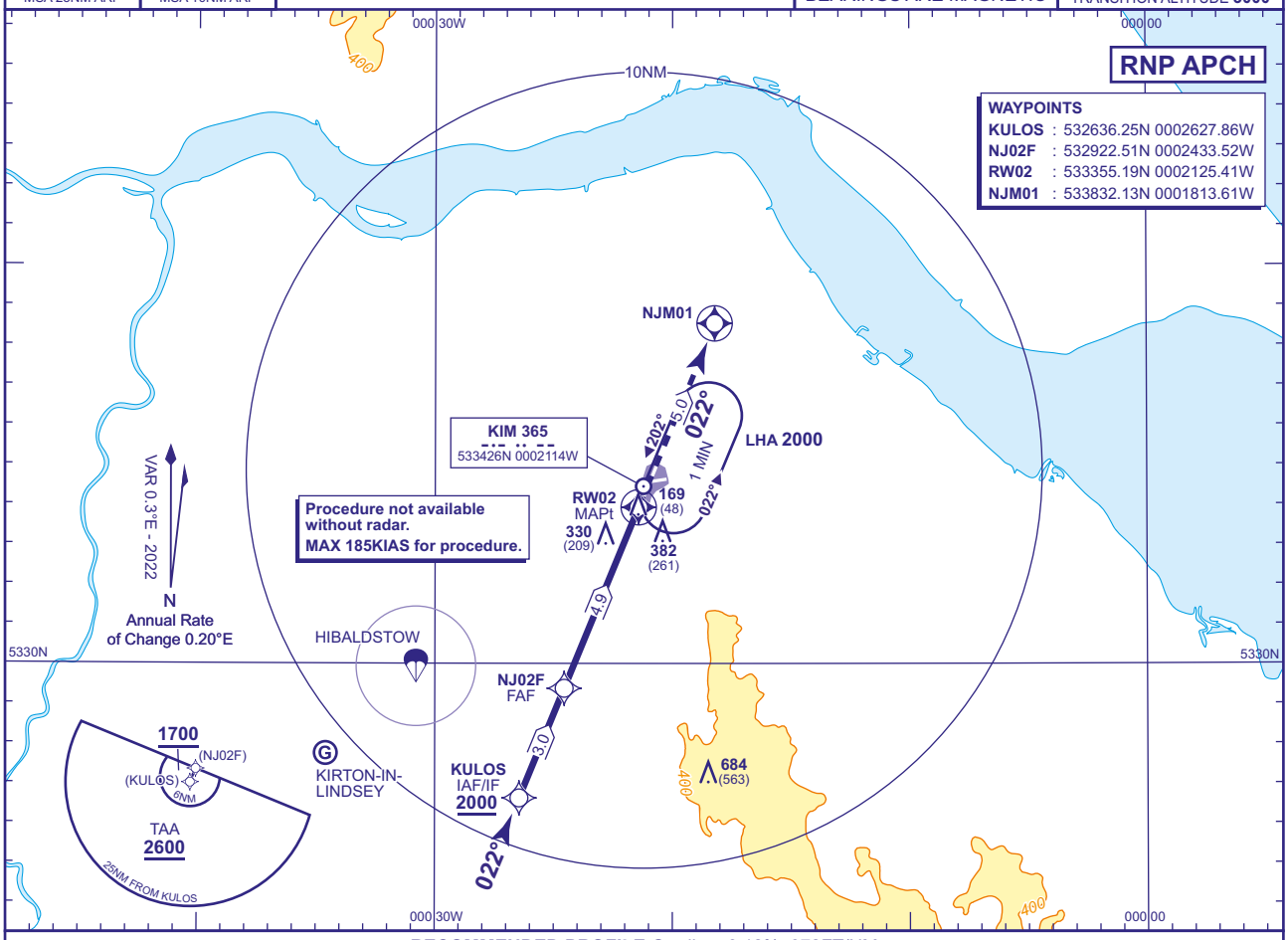
APP 119.130	HUMBERSIDE APPROACH	AD ELEVATION	**121**
TWR 124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION	**121**
RAD 119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION **684 AMSL** (563) (ABOVE THR)	
ATIS 124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC	

26 MSA 25NM ARP

18 MSA 10NM ARP

MIN TEMP **-15°C**

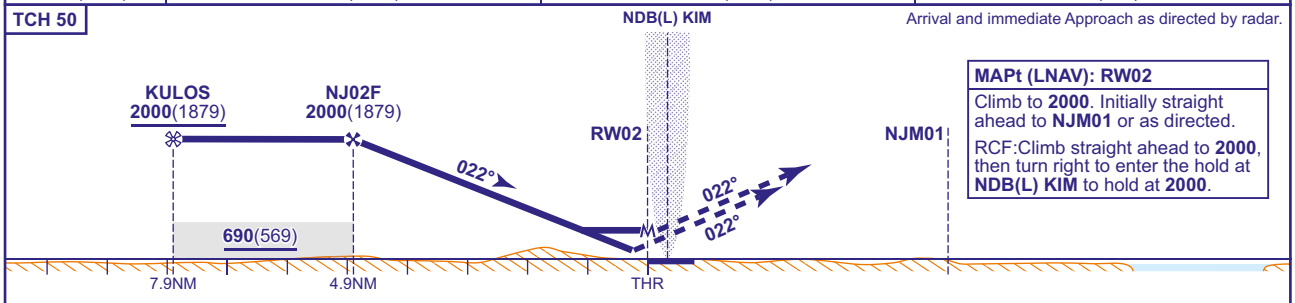
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW02	4	3	2
ALT(HGT)	**1660**(1539)	**1290**(1169)	**920**(799)

TCH 50



Arrival and immediate Approach as directed by radar.

MAPt (LNAV): RW02
Climb to **2000**. Initially straight ahead to **NJM01** or as directed.
RCF:Climb straight ahead to **2000**, then turn right to enter the hold at **NDB(L) KIM** to hold at **2000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**470**(349)	**490**(369)	**500**(379)	**510**(389)
	LNAV	**580**(459)	**580**(459)	**580**(459)	**580**(459)
VM(C)OCA (OCH AAL)	Total Area	**690**(569)	**690**(569)	**990**(869)	**1050**(929)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	900	870	740	620	500

NOTE 1 LNAV/VNAV temperature at which VPA exceeds 3.5° is 14.7°C.

CHANGE (5/24): OCA(OCH) CAT B/C/D. VM(C)(OCH AAL) CAT A/B. MOCA INCREASED. TAA KULOS SUBSECTOR AMENDED TO 6NM. NOTE ADDED.

AERO INFO DATE 16 FEB 24

INSTRUMENT APPROACH CHART - ICAO

HUMBERSIDE NDB(L)/DME RWY 02
(ACFT CAT A,B,C,D)

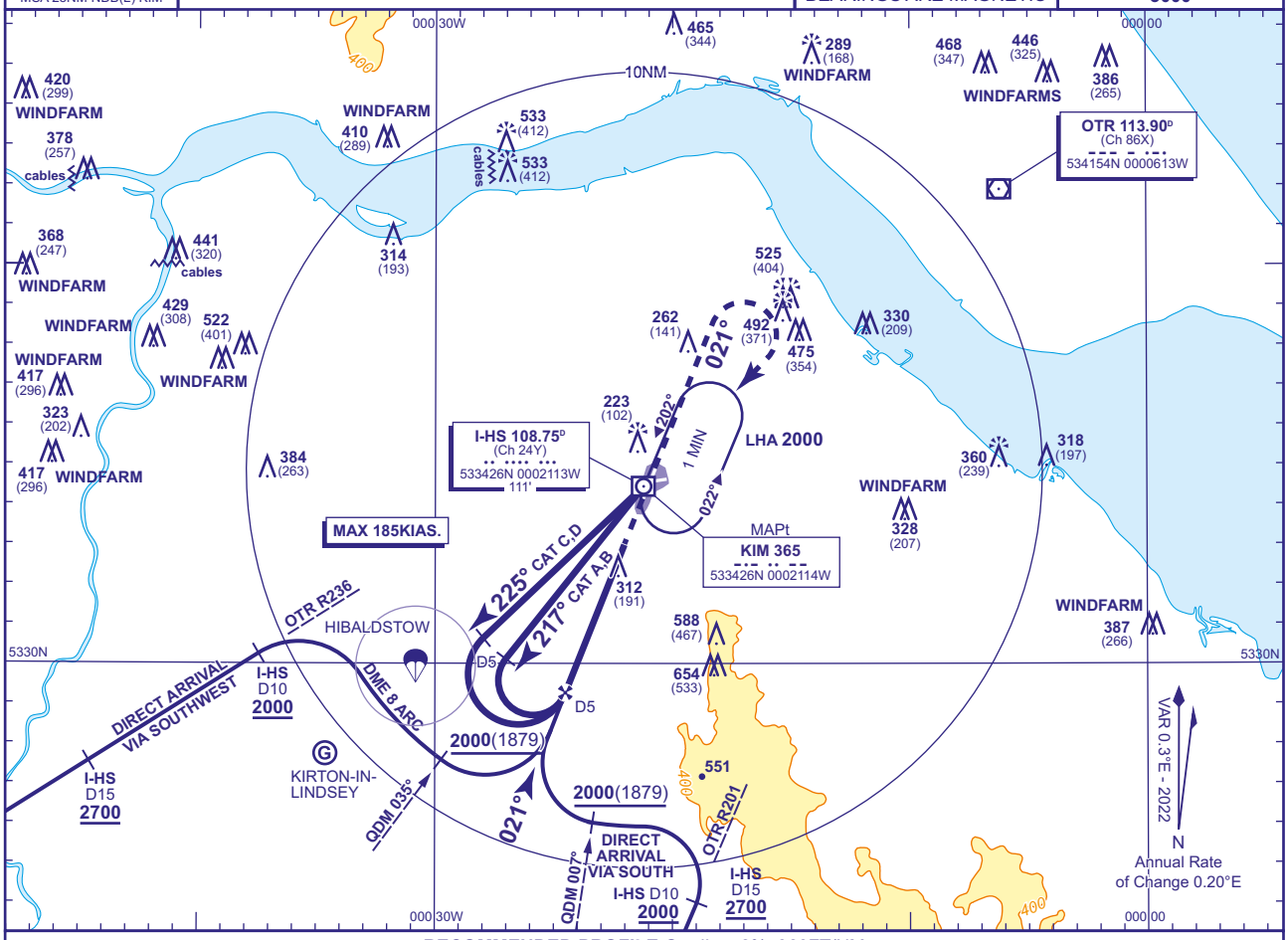
I



MSA 25NM NDB(L) KIM

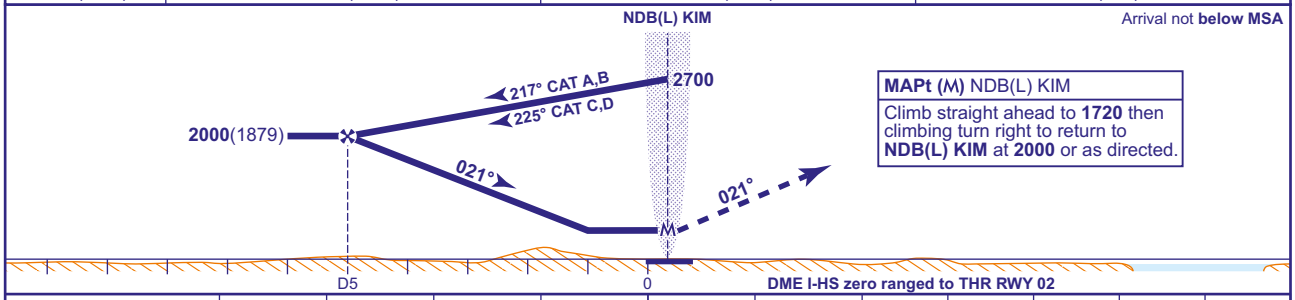
APP	119.130	HUMBERSIDE APPROACH	AD ELEVATION	121
TWR	124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION	121
RAD	119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION	654 AMSL (533) (ABOVE THR)
ATIS	124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6%, 360FT/NM

DME I-HS	4	3	2
ALT(HGT)	**1640**(1519)	**1270**(1149)	**910**(789)



Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**590**(469)	**590**(469)	**590**(469)	**590**(469)
	NO DME	**640**(519)	**640**(519)	**640**(519)	**640**(519)
VM(C)OCA (OCH AAL)	Total Area	**690**(569)	**690**(569)	**990**(869)	**1050**(929)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	970	850	720	610	490

AIRCRAFT UNABLE TO RECEIVE DME I-HS
As for procedure with DME except substitute timings for outbound legs 2.2MIN (CAT A,B); 1.7MIN (CAT C,D) prior to base turn. When established descend to MDH.

DIRECT ARRIVAL PROCEDURES (Subject to ATC approval). For aircraft able to receive VOR DME OTR and DME I-HS in addition to NDB(L) KIM.

DIRECT ARRIVAL FROM SOUTH
Arrival **not below MSA** to intercept and establish on OTR VOR R201 (QDM 021°). After passing I-HS DME 15 descent **not below 2000.** See plan for continuation.

DIRECT ARRIVAL FROM SOUTHWEST
Arrival **not below MSA** to intercept and establish on OTR VOR R236 (QDM 056°). After passing I-HS DME 15 descent **not below 2000.** See plan for continuation.

NOTE Lowest altitude to commence procedure from hold is **2000.**

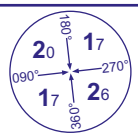
CHANGE (2/25): VOR OTR RECALIBRATED. OTR RADIALS REVISED.

AERO INFO DATE 04 DEC 24

AD 2-EGNJ-8-3

INSTRUMENT APPROACH CHART - ICAO

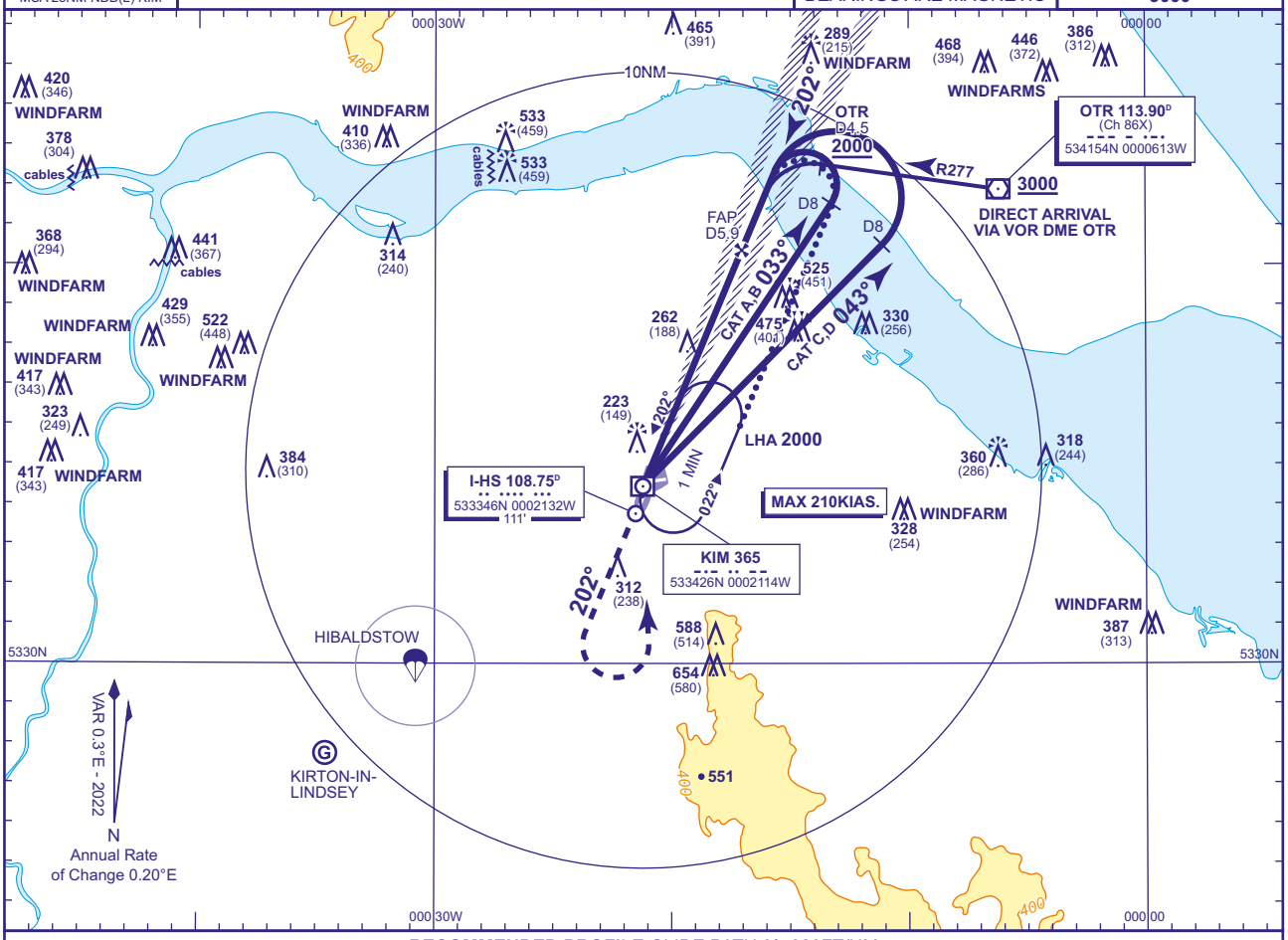
HUMBERSIDE ILS/DME/NDB(L) RWY 20
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) KIM

APP	119.130	HUMBERSIDE APPROACH	AD ELEVATION	121
TWR	124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION	74
RAD	119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION	654 AMSL (580) (ABOVE THR)
ATIS	124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC	

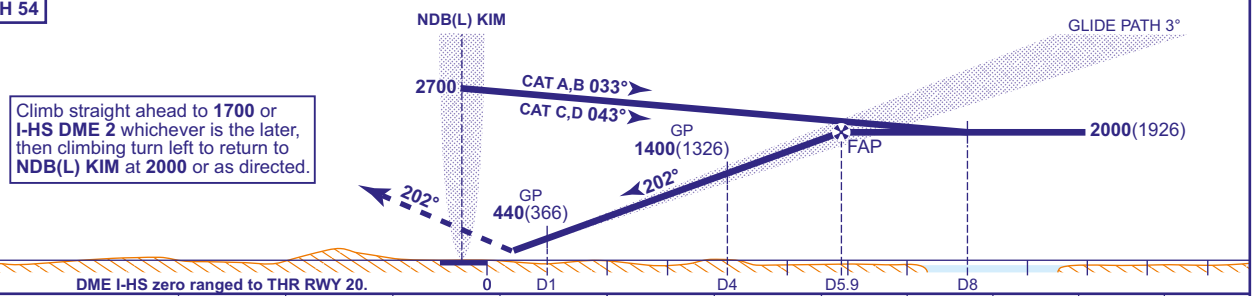
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-HS	5	4	3	2	1
ALT(HGT)	**1710**(1636)	**1400**(1326)	**1080**(1006)	**760**(686)	**450**(376)

RDH 54



Climb straight ahead to **1700** or **I-HS DME 2** whichever is the later, then climbing turn left to return to **NDB(L) KIM** at **2000** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**224**(150)	**234**(160)	**245**(171)	**258**(184)
VM(C)OCA (OCH AAL)	**Total Area**	**690**(569)	**690**(569)	**990**(869)	**1050**(929)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	630	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) KIM at **2700** in holding pattern, turn left and descend on the extended outbound leg to **2000**(1926). At I-HS DME 8 turn left to intercept LOC inbound. When established continue as for Main Procedure.

DIRECT ARRIVAL VIA VOR DME OTR (Subject to ATC approval)
Overhead VOR DME OTR **not below 3000,** depart on R277 descending **not below 2000.** At OTR DME 4.5 left turn left to intercept LOC inbound. When established continue as for Main Procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-HS
Advise ATC. Radar Ranges will be given at 8NM outbound and 4NM inbound.

NOTE 1 Lowest altitude to commence procedure from hold is **2000.**

CHANGE (2/25): VOR OTR RECALIBRATED. OTR RADIALS REVISED.

AERO INFO DATE 04 DEC 24 AD 2-EGNJ-8-4

INSTRUMENT APPROACH CHART - ICAO

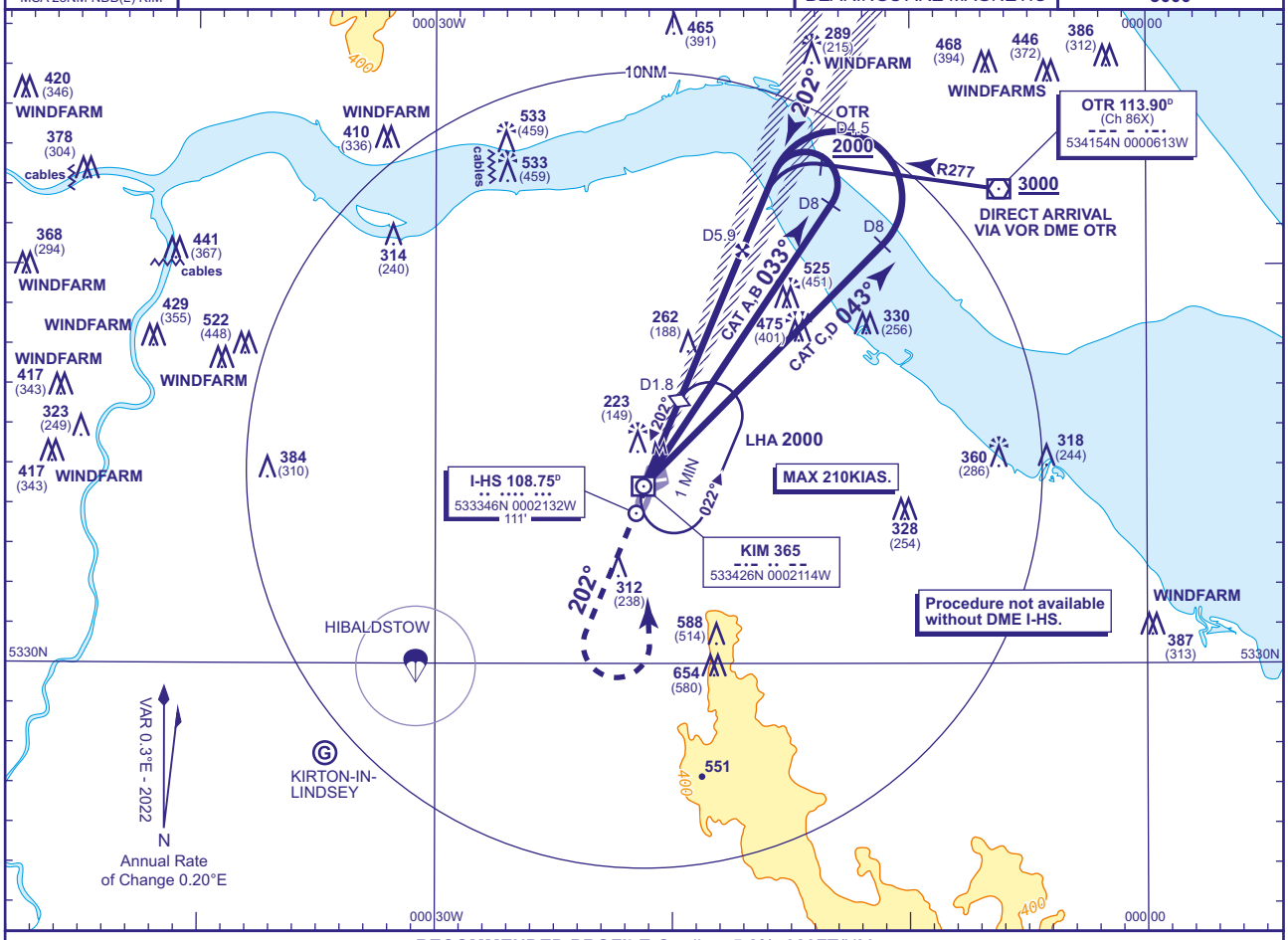
HUMBERSIDE LOC/DME/NDB(L) RWY 20
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) KIM

APP	119.130	HUMBERSIDE APPROACH	AD ELEVATION	121
TWR	124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION	74
RAD	119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION	654 AMSL (580) (ABOVE THR)
ATIS	124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

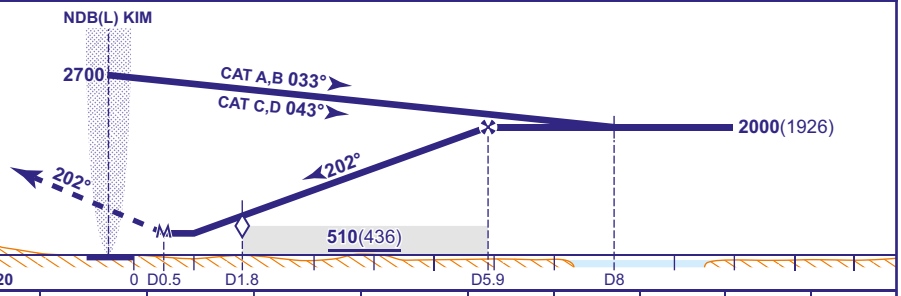


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-HS	5	4	3	1.8 **(SDF)**	1
ALT(HGT)	**1710**(1636)	**1400**(1326)	**1080**(1006)	**700**(614)	**450**(376)

MAPt (M) I-HS DME 0.5

Climb straight ahead to **1700** or **I-HS DME 2** whichever is the later, then climbing turn left to return to **NDB(L) KIM** at **2000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**460**(386)	**460**(386)	**460**(386)	**460**(386)
VM(C)OCA (OCH AAL)	**Total Area**	**690**(569)	**690**(569)	**990**(869)	**1050**(929)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

DIRECT ARRIVAL VIA VOR DME OTR (Subject to ATC approval)
Overhead VOR DME OTR **not below 3000,** depart on R277 descending **not below 2000.** At OTR DME 4.5 left turn to intercept LOC inbound. When established continue as for Main Procedure.

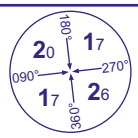
NOTE 1 Lowest altitude to commence procedure from hold is **2000.**

CHANGE (2/25): VOR OTR RECALIBRATED. OTR RADIALS REVISED.

AERO INFO DATE 04 DEC 24

INSTRUMENT APPROACH CHART - ICAO

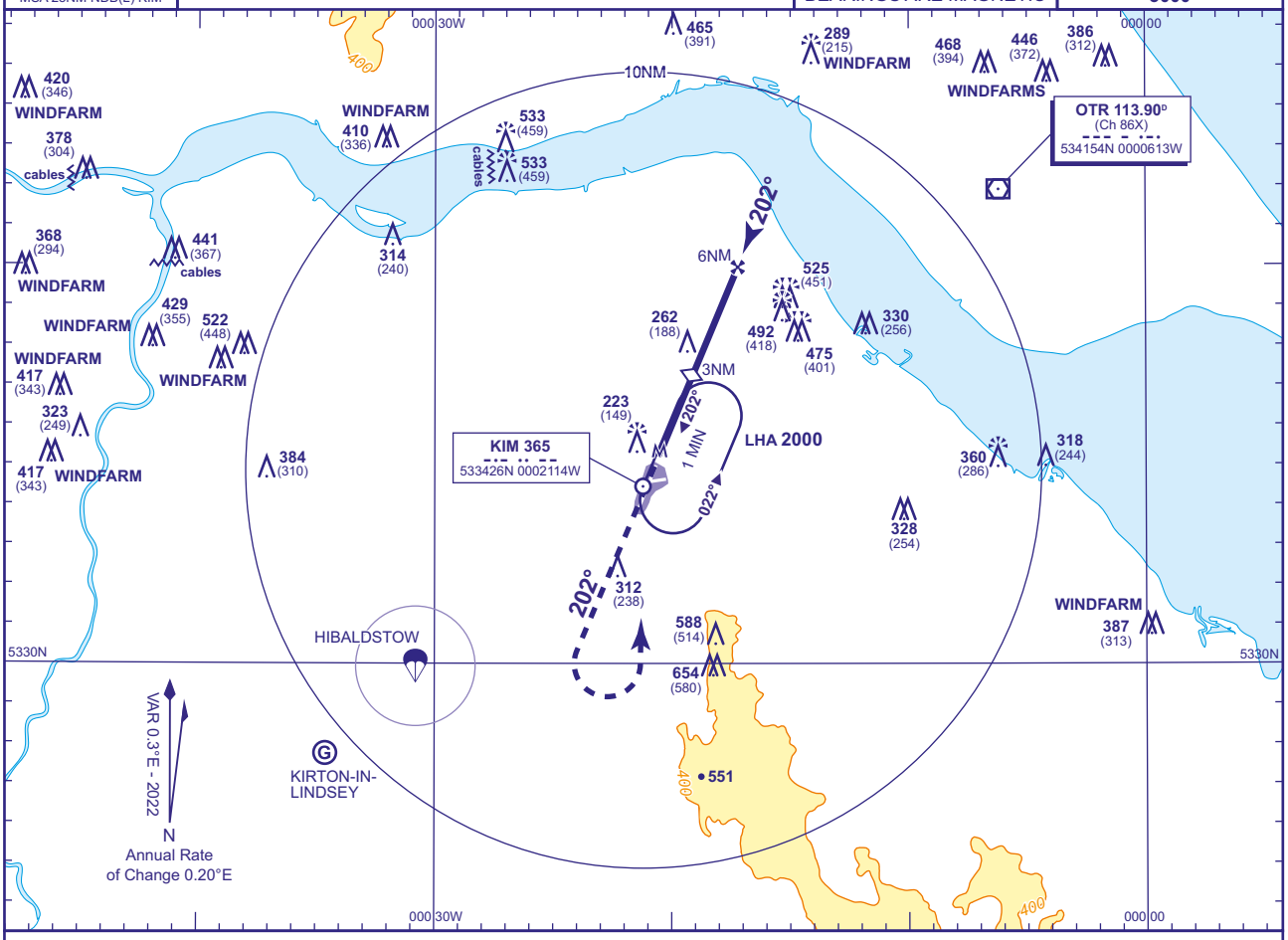
HUMBERSIDE SRA RTR 2NM RWY 20
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) KIM

APP	119.130	HUMBERSIDE APPROACH	AD ELEVATION	121
TWR	124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION	74
RAD	119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION	654 AMSL (580) (ABOVE THR)
ATIS	124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

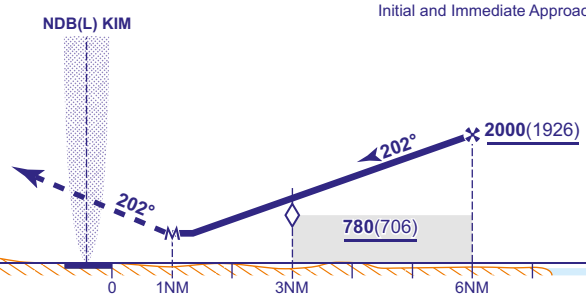


RADAR ADVISORY HEIGHTS Gradient 5.2%, 320FT/NM

NM	5.0	4.0	3.0 **(SDF)**	2.0
ALT(HGT)	**1680**(1606)	**1360**(1286)	**1080**(1006)	**720**(646)

Initial and Immediate Approach as directed by radar.

MAPt 1 (M) 1NM after RTR
Climb straight ahead to **1700** then climbing turn left to return to **NDB(L) KIM** to hold at **2000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**570**(496)	**570**(496)	**570**(496)	**570**(496)		FT/MIN	860	750	640	530	430
VM(C)OCA (OCH AAL)	Total Area	**690**(569)	**690**(569)	**990**(869)	**1050**(929)	RTR to MAPt	MIN:SEC	0:22	0:25	0:30	0:36	0:45

CHANGE (5/24): OCA(OCH). VM(C)(OCH AAL) CAT A/B.

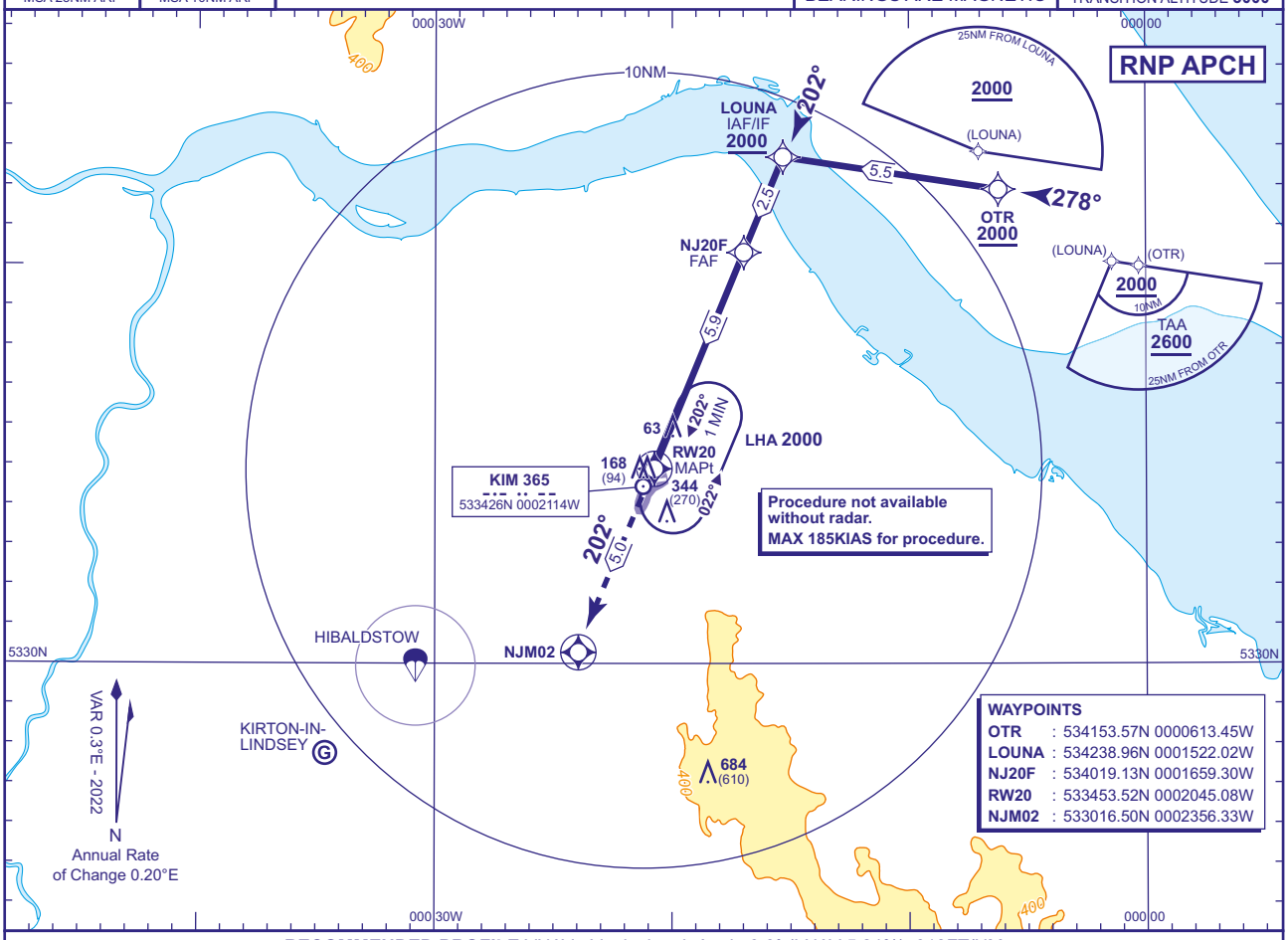
AERO INFO DATE 26 FEB 24 AD 2-EGNJ-8-6

INSTRUMENT APPROACH CHART - ICAO

HUMBERSIDE
RNP
RWY 20
(ACFT CAT A,B,C,D)

26 MSA 25NM ARP / 18 MSA 10NM ARP	APP 119.130	HUMBERSIDE APPROACH	AD ELEVATION 121
	TWR 124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION 74
	RAD 119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION 684 AMSL (610) (ABOVE THR)
	ATIS 124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC

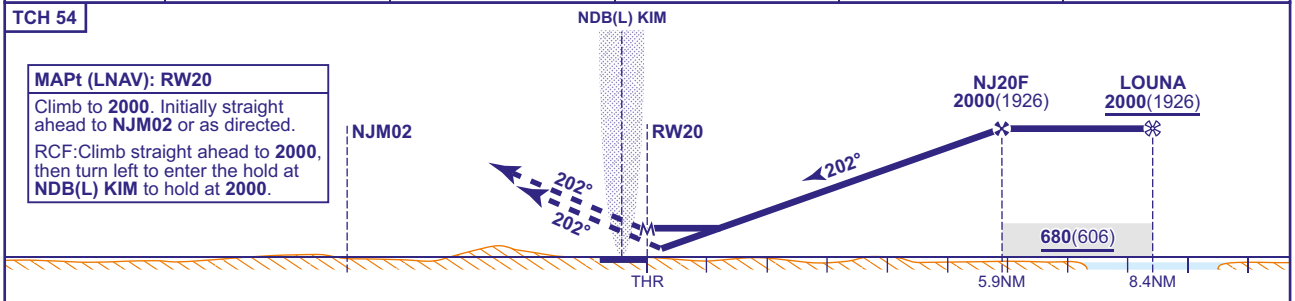
MIN TEMP -15°C
TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE VNAV - Vertical path Angle 3.0° (LNAV 5.24%), 318FT/NM

NM to RW20	5	4	3	2	1
ALT(HGT)	**1720**(1646)	**1400**(1326)	**1080**(1006)	**760**(686)	**450**(376)

TCH 54



MAPt (LNAV): RW20

Climb to **2000**. Initially straight ahead to **NJM02** or as directed.

RCF:Climb straight ahead to **2000**, then turn left to enter the hold at **NDB(L) KIM** to hold at **2000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**340**(266)	**350**(276)	**360**(286)	**380**(306)
	LNAV	**510**(436)	**510**(436)	**510**(436)	**510**(436)
VM(C)OCA (OCH AAL)	Total Area	**690**(569)	**690**(569)	**990**(869)	**1050**(929)

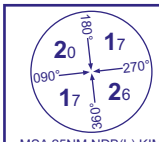
Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

CHANGE (5/24): LNAV OCA(OCH). VM(C)(OCH AAL) CAT A/B. SDF/MOCA WITHDRAWN. RECOMMENDED PROFILE.

AERO INFO DATE 22 FEB 24

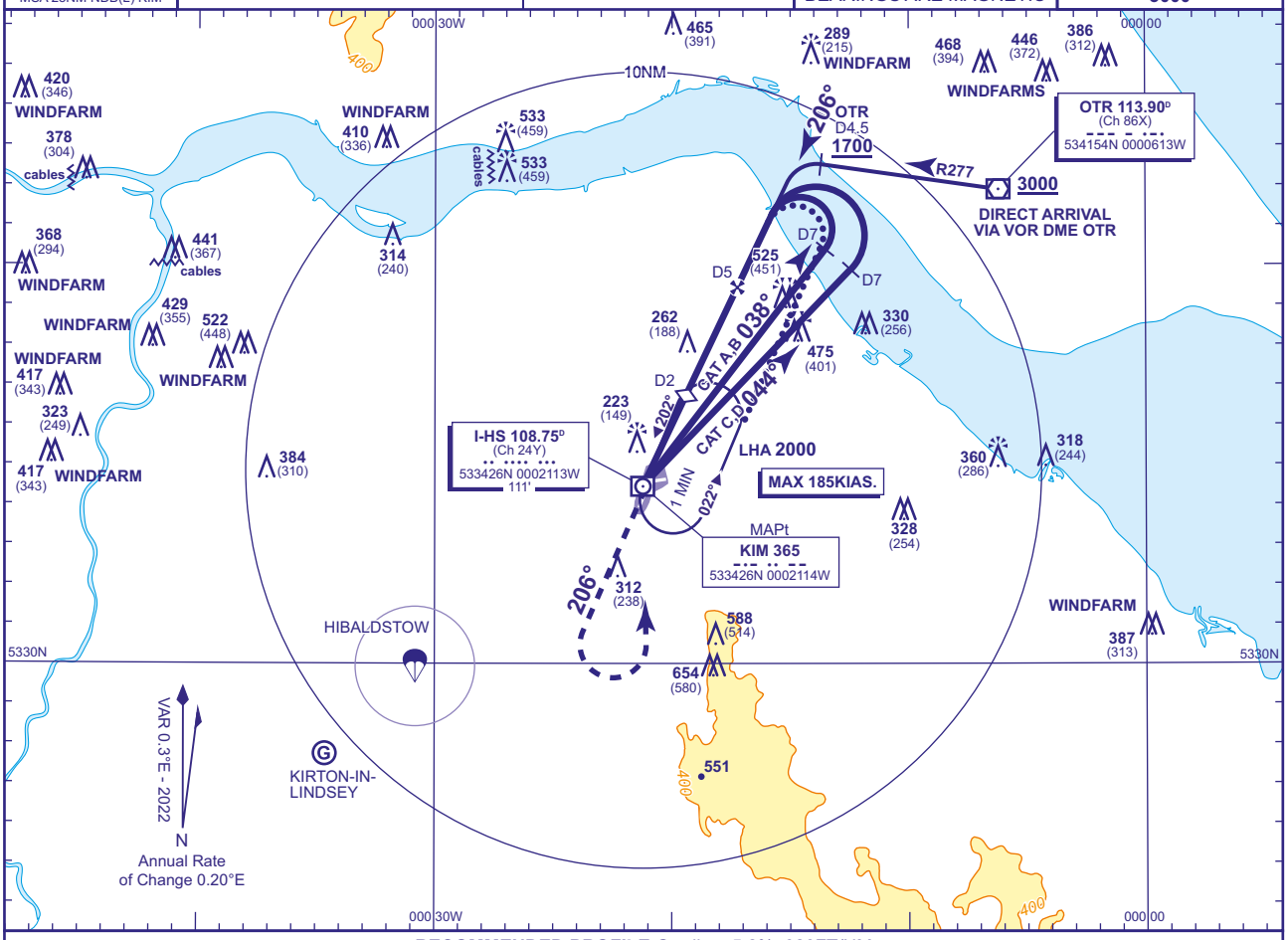
INSTRUMENT APPROACH CHART - ICAO

HUMBERSIDE NDB(L)/DME RWY 20
(ACFT CAT A,B,C,D)



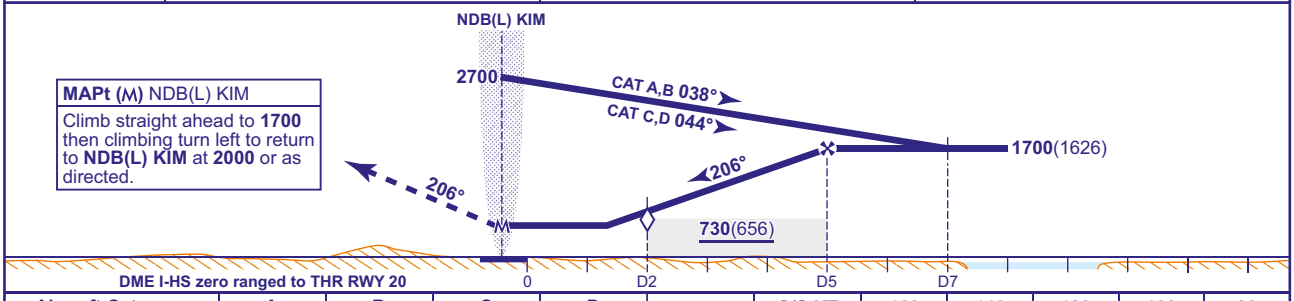
MSA 25NM NDB(L) KIM

APP	119.130	HUMBERSIDE APPROACH	AD ELEVATION	121	
TWR	124.905, 119.130	HUMBERSIDE TOWER	THR ELEVATION	74	
RAD	119.130, 129.255	HUMBERSIDE RADAR	OBSTACLE ELEVATION	654 AMSL (580) (ABOVE THR)	
ATIS	124.130	HUMBERSIDE INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-HS	4	3	2 **(SDF)**
ALT(HGT)	**1380**(1306)	**1070**(896)	**750**(676)



MAPt (M) NDB(L) KIM
Climb straight ahead to **1700** then climbing turn left to return to **NDB(L) KIM** at **2000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**550**(476)	**550**(476)	**550**(476)	**550**(476)
	NO DME	**800**(726)	**800**(726)	**800**(726)	**800**(726)
VM(C)OCA (OCH AAL)	**Total Area DME**	**690**(569)	**690**(569)	**990**(869)	**1050**(929)
	Total Area NO DME	**800**(679)	**800**(679)	**990**(869)	**1050**(929)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	860	750	640	540	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) KIM at **2700** in holding pattern, turn left and descend on the extended outbound leg to **1700**(1626). At I-HS DME 7 turn left to intercept FAT inbound. When established continue as for Main Procedure.

DIRECT ARRIVAL VIA VOR DME OTR (Subject to ATC approval)
Overhead VOR DME OTR **not below 3000,** depart on R277 descending to **1700**(1626)**.** At OTR DME 4.5 turn left to intercept extended FAT. When established continue as for Main Procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-HS
As for Main and Alternative Procedures with DME except fly outbound for 3MIN (CAT A,B); 2MIN (CAT C,D) prior to base turn. When established on FAT descend to MDH.

NOTE Lowest altitude to commence procedure from hold is **2000.**

CHANGE (2/25): VOR OTR RECALIBRATED. OTR RADIALS REVISED.

AERO INFO DATE 04 DEC 24 AD 2-EGNJ-8-8

Instrument Approach Procedure Coding Tables

Humberside RNP RWY 02 - Instrument Approach Procedure via KULOS

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R02	001	IF	KULOS	N	-	-	2000	185	532636.25N 0002627.86W	IAF / IF / 7.9NM
R02	002	TF	NJ02F	N	022° (022.29°)	-	2000	-	532922.51N 0002433.52W	FAF / 4.9NM
R02	003	TF	RW02	Y	022° (022.32°)	-	-	-	533355.19N 0002125.41W	MAPt
R02	004	TF	NJM01	Y	022° (022.37°)	-	2000	185	533832.13N 0001813.61W	-

CHANGE (6/21): NEW TABLES.
AERO INFO DATE 07 APR 21

Instrument Approach Procedure Coding Tables

Humberside RNP RWY 20 - Instrument Approach Procedure via OTR

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20R	001	IF	OTR	N	-	-	2000	-	534153.57N 0000613.45W	IAF
R20R	002	TF	LOUNA	N	278° (278.00°)	LEFT	2000	185	534238.96N 0001522.02W	IF / 8.4NM
R20R	003	TF	NJ20F	N	202° (202.45°)	-	2000	-	534019.13N 0001659.30W	FAF / 5.9NM
R20R	004	TF	RW20	Y	202° (202.43°)	-	-	-	533453.52N 0002045.08W	MAPt
R20R	005	TF	NJM02	Y	202° (202.38°)	-	2000	185	533016.50N 0002356.33W	-

Humberside RNP RWY 20 - Instrument Approach Procedure via LOUNA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20C	001	TF	LOUNA	N	-	-	2000	185	534238.96N 0001522.02W	IF / 8.4NM
R20C	002	TF	NJ20F	N	202° (202.45°)	-	2000	-	534019.13N 0001659.30W	FAF / 5.9NM
R20C	003	TF	RW20	Y	202° (202.43°)	-	-	-	533453.52N 0002045.08W	MAPt
R20C	004	TF	NJM02	Y	202° (202.38°)	-	2000	185	533016.50N 0002356.33W	-

CHANGE (12/21): PAGE RENUMBERED.

EGPE — INVERNESS

EGPE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPE — INVERNESS

EGPE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 573233N Long: 0040251W Mid-point of Runway 05/23
2	Direction and distance from city	7 NM NE of Inverness.
3	Elevation / Reference temperature / Mean Low Temperature	31 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	172 FT
5	Magnetic Variation / Annual Change	1.74°W (2022) / 0.23°E
6	AD Administration Address Telephone	HIGHLANDS AND ISLANDS AIRPORTS LTD Inverness Airport, Inverness IV2 7JB. 01667-464000 (Administration) 01667-464276 (ATC) 01667-464255 (MET)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone calls to ATC will be recorded.

EGPE AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0630-2145 (0515-2130); Sat 0630-2100 (0515-2130); Sun 0630-2130 (0515-2130).
2	Customs and immigration	By arrangement. 6 hours notice required for EU flights, H24 for other flights.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As AIS briefing hours.
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	AVTUR JET A-1 and AVGAS 100LL: Mon-Fri 0600-1900; Sat 0600-1430; Sun 0600-1900 (Mon-Sun 0500-1800). Out of hours (Tel: +44(0)7836-202637 or +44 (0)7595-223613).
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR. All operators, including executive and private General Aviation must make prior arrangements with a handling agent for ground handling.

EGPE AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Prearrange with cargo handling agent, Tel: 01667-462121; Fax: 01667-462750.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	100,000 LT stored. Delivery 700 LT per minute.
4	De-icing facilities	Full aircraft de-icing capability.
5	Hangar space for visiting aircraft	None.
6	Repair facilities for visiting aircraft	Limited.

7	Remarks	All flights are subject to mandatory ground handling. Prior arrangement must be made with one of the listed handling agents. Handling Agents: Skytanking: Tel: 01667-464120; Fax: 01667-464129; Channel: 131.430. Highlands Jet Centre: Tel: 01667-462121. Signature Flight Support: Tel: 01667-461122; Frequency 122.350 MHz. Highland Aviation: Tel: 01667-460361 (<6000 KG MTOW).

EGPE AD 2.5 PASSENGER FACILITIES

1	Hotels	Adjacent to terminal building and in Inverness.
2	Restaurants	Buffet in terminal.
3	Transportation	Taxis.
4	Medical facilities	First aid facilities.
5	Bank and Post Office	ATM in Terminal Building.
6	Tourist Office	
7	Remarks	

EGPE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 7 accepted under remission. RFF Category 6 Mon 0615-2230 (0515-2130); Tue-Sat 0600-2230 (0500-2130); Sun 0625-2230 (0525-2130). RFF Category 5 Tue-Sat 0245-0600 (0145-0500).
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Available up to SF34 size aircraft. Further recovery limited.
4	Remarks	

EGPE AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Snow ploughs and blowers. Mechanical and chemical de-icing. Surfaces de-iced/anti-iced with KAC/EG and/or NAAC.
2	Clearance priorities	Runway 05/23. Taxiway Alpha and Golf. Apron. Runway 11/29.
3	Remarks	Latest Information from ATC, Tel: 01667-464293

EGPE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	
2	Taxiway width, surface and strength	Taxiway HOLD E2-A2-A1: 18 M Surface: Asphalt PCN 39 Taxiway HOLD E2-E1-F: 18 M Surface: Asphalt PCN 42 Taxiway HOLD G: 15 M Surface: Asphalt PCN 12
3	Altimeter checkpoint location and elevation	Apron 38 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking chart.

6	Remarks	See AD 2-EGPE-2-2 Aircraft Parking/Docking Chart for PCN details.

EGPE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	By marshaller. Self-parking will be permitted by based light aircraft on North Apron only.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Centre-line, threshold and TDZ markings. Runway light(s): Runway edge lights. 11/29: Unlit, lighting unavailable. Taxiway marking aid(s): Yellow centre-line markings.
3	Stop bars and runway guard lights (if any)	At A1, F and G holding points.
4	Other runway protection measures	
5	Remarks	WDIs (LGTD): 573249.97N 0040227.11W - 573227.63N 0040315.96W. WDI: 573241.53N 0040325.79W. Pilots should be aware that Aerodrome Controllers at EGPE may refer to several Holding Points designated for vehicular management only. These do not form part of the aerodrome manoeuvring area and are therefore not published in EGPE AD 2.24 CHARTS RELATED TO AN AERODROME.

EGPE AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPE6003) 29/APPROACH 11/ TAKE-OFF	NDB	573229.43N 0040245.48W	60 FT	36 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPE8186)	MAST	573759.62N 0040430.31W	1100 FT	421 FT	Yes Red	
(EGPE7603)	MAST	573529.89N 0041636.37W	1526 FT	825 FT	Yes Red	
(EGPE8280)	ANEMOMETER	573242.82N 0040219.56W	55 FT	32 FT	Yes Red	
(EGPE8282)	MAST	573221.98N 0040239.53W	132 FT	104 FT	Yes Red	
(EGPE8281)	ANEMOMETER	573221.27N 0040306.48W	62 FT	36 FT	Yes Red	
(EGPE7896)	TREE	573211.58N 0040512.16W	180 FT	62 FT	No	
(EGPE7894)	TREE	573209.52N 0040507.71W	162 FT	56 FT	No	
(EGPE7897)	TREE	573208.04N 0040510.82W	165 FT	53 FT	No	
(EGPE7908)	TREE	573206.70N 0040533.84W	191 FT	55 FT	No	
(EGPE5206)	PYLON	573144.98N 0035754.82W	271 FT	81 FT	No	
(EGPE5205)	PYLON	573139.65N 0035810.40W	302 FT	90 FT	No	

→

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPE7919)	TREE	573025.57N 0035801.84W	660 FT	175 FT	No	
(EGPE7918)	TREE	573024.15N 0035803.54W	662 FT	156 FT	No	
(EGPE7762)	TREE	573022.45N 0040246.46W	501 FT	116 FT	No	
(EGPE5074)	PYLON	572814.94N 0040109.66W	1065 FT	168 FT	No	
(EGPE5075)	PYLON	572814.17N 0040128.09W	999 FT	134 FT	No	
(EGPE5076)	PYLON	572809.31N 0040144.22W	1022 FT	155 FT	No	

EGPE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Met Office - Aviation Briefing Service is available via personal internet enabled devices.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	INVERNESS
10	Additional information (limitation of service, etc.)	Unverified automatic met observations are available on ATIS (109.200 MHz) or by telephone on 01667-464255 outside hours of aerodrome/ATC hours.

EGPE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05	049.44°	1888 x 45 M	RWY surface: Asphalt, Grooved PCN 40/F/C/X/T	573214.54N 0040331.23W 172.0 FT	THR 29.7 FT TDZ 29.8 FT	05/23 1:774
23	229.46°	1888 x 45 M	RWY surface: Asphalt, Grooved PCN 40/F/C/X/T	573252.84N 0040207.99W 171.9 FT	THR 21.1 FT TDZ 25.6 FT	05/23 1:774
11	109.59°	701 x 18 M	RWY surface: Asphalt PCN 39/F/C/X/T	573240.70N 0040335.49W 172.0 FT	THR 31.1 FT	RWY 11/29 1:459
29	289.60°	701 x 18 M	RWY surface: Asphalt PCN 39/F/C/X/T	573233.10N 0040255.78W 172.0 FT	THR 25.6 FT	RWY 11/29 1:459

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	150 x 150 M	2008 x 280 M				RWY 05 Threshold displaced by 66 M. OFZ: Yes.
	150 x 150 M	2008 x 280 M				RWY 23 OFZ: Yes.
		761 x 60 M				RWY 11
		761 x 60 M				RWY 29

EGPE AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	1888 M	2038 M	1888 M	1822 M	
23	1822 M	1972 M	1822 M	1822 M	
05	994 M	1144 M	994 M		Take-off from intersection of Runway 11.
23	849 M	999 M	849 M		Take-off from intersection of Runway 11.
11	701 M	701 M	701 M	701 M	
29	701 M	701 M	701 M	701 M	

EGPE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	Five crossbars. 900 M Light intensity high	Green with green wingbars	PAPI Left/3° 50 FT 362 M			Final 600 M yellow White Light intensity high	Red		
23	Five crossbars. 900 M Light intensity high	Green with green wingbars	PAPI Left/3° 57 FT 348 M			Final 600 M yellow White Light intensity high	Red		

EGPE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 573221.27N 0040306.48W (LGTD), 573242.82N 0040219.56W (LGTD).
3	TWY edge and centre line lighting	CL: Green centre-line from Runway 05/23 centre-line to SAR Apron. Green centre-line from Hold F, through north apron and taxiway to south apron. EDGE: Blue edge lights from Runway 05 to Runway 11 threshold.
4	Secondary power supply/switch-over time	Yes. Using local sub-station / 1 second during LVPs.
5	Remarks	

EGPE AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF 5: 573226.38N 0040234.42W, 171.9 FT TLOF 6: 573226.84N 0040233.44W, 171.9 FT
2	TLOF and/or FATO elevation	TLOF 5: 26.0 FT TLOF 6: 25.7 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGPE AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
INVERNESS ATZ A circle, 2.5 NM radius, centred at 573233N 0040251W on longest notified runway (05/23)	Upper limit: 2000 FT AGL Lower limit: SFC	G	INVERNESS RADAR English	3000 FT		Air Ambulance flights/SAR operations may occur H24, including outside of the operating hours of the aerodrome ATZ. Pilots are recommended to make a blind call on Inverness Radar (122.605) when the aerodrome is published closed and they are transiting through or close to the ATZ.

EGPE AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	INVERNESS TOWER	118.405 DOC 25 NM/4,000 FT.			Mon-Fri 0630-2145 (0515-2130); Sat 0630-2100 (0515-2130); Sun 0630-2130 (0515-2130).	VDF 573226.14N 0040249.88W Northwest of ATC.
RADAR	INVERNESS RADAR	122.605 DOC 40 NM/ 15,000 FT.			Mon-Fri 0630-2145 (0515-2130); Sat 0630-2100 (0515-2130); Sun 0630-2130 (0515-2130).	VDF 573226.14N 0040249.88W Northwest of ATC.
ATIS	INVERNESS INFORMATION	109.200 Broadcast on Inverness VOR.			H24	Unverified outside hours of approach.
OTHER	INVERNESS FIRE CHIEF	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.71°W (2027)	ILN	108.500 MHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573303.37N 0040145.09W		(RWY 05)
ILS/GP	ILN	329.900 MHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573218.21N 0040311.71W		3° ILS Ref Datum Hgt 50 FT. Pilots may not receive full fly-up indications when below glidepath and right of centre-line.
ILS/LOC I 0.73°W (2027)	IDX	108.500 MHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573208.43N 0040344.52W		(RWY 23)
ILS/GP	IDX	329.900 MHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573242.93N 0040217.51W		3° ILS Ref Datum Hgt 50 FT.
VOR/DME 0.72°W (2027) 1.0°W (2024)	INS	29X 109.200 MHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573233.49N 0040227.99W	42 FT	VOR DOC: 40 NM/25000 FT. Due to terrain, VOR coverage at low level is reduced in Sector R141-181. DME co-located and freq paired with VOR and unmonitored outside Inverness ATC hours of operation. The DME may unlock on R305 when aircraft are at ranges in excess of 34 NM and below 5500 FT.
NDB 0.72°W (2027)	IVR	328.000 kHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573229.43N 0040245.48W		Normally radiates H24. Range 25 NM.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/DME	IDX	22X 108.500 MHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573230.47N 0040246.46W	43 FT	(RWY 23) DME freq paired with ILS I-LN and I-DX. Zero range is indicated at THR of Runway 05 and 23.
ILS/DME	ILN	22X 108.500 MHz	H24 Available for approach and landing outside the hours of ATC with airport approval.	573230.47N 0040246.46W	43 FT	(RWY 05) DME freq paired with ILS I-LN and I-DX. Zero range is indicated at THR of Runway 05 and 23.

EGPE AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All operators, international flights (including executive and private General Aviation) regardless of MAUW, must make prior arrangements with a handling agent for ground handling of all flights.
b) Inverness Airport is strictly PPR. Requests should be made to Inverness Apron Operations Tel: +44 (0)1667-464307, Mobile: +44 (0)7917-071144 or e-mail: invernessapronoperations@hial.co.uk. Domestic flights must PPR a minimum of 2 hours before scheduled arrival. International Flights must PPR a minimum of 24 hours before scheduled arrival.
c) Smoking airside, including the use of e-cigarettes, is strictly prohibited.
d) Use of Inverness aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.
e) Due to restricted parking availability all aircraft should be left in a towable condition wherever practicable. Signage indicating that aircraft are ready for tow should be displayed in a prominent position or, where no signage is available, handling agents informed of the aircraft state.
f) In order to comply with airport regulations, all persons entering airside areas on foot are required to wear high visibility clothing, appropriate PPEs and be in possession/display an appropriate and valid HIAL ID pass.
g) All aircraft using Inverness Aerodrome or its facilities are required to have third party liability insurance cover. Proof of this insurance should be available for inspection at any time whilst the aircraft is on the aerodrome.

2 GROUND MOVEMENT

a) The taxiway between the north end of the south apron and threshold Runway 11 is available for use only by aircraft with a wingspan up to but not including 36 M.
b) To permit crossing of Taxiway Echo through the North Apron by non-radio equipped vehicles, two crossings are installed, indicated by black/white checked edges. One, at the north end, leads to the GA Terminal, the other to AFS and the Terminal Building. These crossings are not available during LVP operations, ATC will advise. All pedestrians, wishing to cross Taxiway Echo are required to use the marked crossings.
c) All ground movement west of Hold D is at the pilots discretion. Only Inverness based aircraft, aircraft under tow to Hangar 3, or aircraft for which previous arrangements have been made with a handling agent or Apron Control (07917-071144), are permitted west of Hold D.
d) Aircrew are requested to use minimum power settings whilst turning to leave the parking stands on either apron in order to avoid blast injury to personnel or blast damage to other aircraft.
e) Push-back not available at Inverness, so marshalling is routinely provided to all aircraft movements to the North and South Apron. Therefore, pilots of inbound aircraft are not to turn off Taxiway Echo or Alpha prior to parking, nor are pilots of outbound aircraft to request taxi, unless they are in visual contact with, and receiving guidance from, the Duty Marshaller. Aircraft facing out towards the taxiway will not require a marshaller for taxi off stand. In the event that no marshaller is in sight at the appointed time, the pilot should hold position and advise ATC of the situation. In such circumstances ATC may instruct the pilot to await the marshaller, or, if the delay is likely to be excessive, advise the pilot to park or leave the apron at his discretion. This instruction will be in respect of other aircraft movements and will take no account of vehicle and personnel movements on the apron.
f) ATC will issue clearances to vehicles on the TWR VHF frequency, which is cross-coupled to the UHF GMC frequency. Pilots will not hear responses from drivers.

3 CAT II/III OPERATIONS

a) Inverness Airport is not equipped for CAT II/III operations; however, Low Visibility Procedures (LVP) are used to protect CAT I operations.
b) Preparation for LVP will commence when the reported MET visibility or IRVR is 2000 M and falling and cloud ceiling 300 FT and below.

c) Pilots will be informed when LVP are in operation by ATIS.

4 WARNINGS

a) No ground signals except light signals.
b) Caution should be exercised when taxiing to Hangar 1 due to the close proximity of an adjacent security fence.
c) Despite the presence of a deer fence, roe deer are occasionally seen on the airport. Pilots are requested to report the location of any animals sighted to ATC.
d) Due to coastal location, birds are a hazard throughout most of the year. This hazard level is raised during the migration season when large numbers of wintering wildfowl transit across approaches to feeding locations on farmland adjacent to the airport.
e) In a strong southerly airstream, severe turbulence may occur below 4000 FT. In lee wave conditions, the turbulence may be particularly bad at very low levels
f) High ground to the South 1500 FT at 5 NM rising to 2018 FT at 7.4 NM.
g) Paragliding and Hang gliding takes place from Alturlie Point 573120.23N 0040719.91W. Within an area known as the Alturlie Box 573120.23N 0040719.91W - 573053.67N 0040800.45W - 573043.88N 0040805.89W - 573049.42N 0040900.31W - 573138.30N 0040839.13W - 573120.23N 0040719.91W. Due to the serious risks presented by rotor downwash and wake turbulence, helicopter pilots should avoid overflying or operating in close proximity to this area below 1500 FT AMSL when active. The status of the Alturlie Box is available from ATC.
h) Pilots of aircraft with a MCTOM exceeding 40,000 KG are requested to carry out all 180 degree turns on the concrete portion of RWY 05/23 (Approx. first 220 M from threshold 23, full runway width).
i) Operators of UAS planned to fly within the Inverness FRZ should inform Inverness ATC with no less than 24 hours before flight to obtain approval.

5 HELICOPTER OPERATIONS

a) Helicopters are expected to make approaches to, and departures from notified runways. Those with wheeled undercarriage will be treated similarly to fixed wing aircraft and must ground taxi within the apron/taxiways. For skid-equipped helicopters the aiming point will generally be Runway 11 threshold followed by hover taxi to the apron. Helicopters can generally expect to be parked on the east side of the North apron. No hover taxiing is permitted west of Hold DELTA.
b) Exceptionally, if weather conditions make lengthy hover taxiing undesirable, departure into wind over the grass area west of Runway 11/29 will be permitted. Overflying the aprons and Terminal building is to be avoided.

6 USE OF RUNWAYS

a) Runway Departure Restriction – Except where an AOC holder has a less restrictive State authorised take-off minima, departures in RVR conditions of less than 400 M are not permitted.
b) Runway 11/29 is not available for flight operations during night hours.

7 TRAINING

a) Practice engine failures after departure by single engine aircraft are permitted when Runway 23 is in use provided the aircraft has passed the aerodrome access road.
b) Asymmetric training by multi-engined aircraft is permitted following departure or go-around on any runway, provided that the aircraft concerned will not descend below 500 FT QFE (or QNH equivalent) during such manoeuvres.
c) All training by visiting aircraft must be pre-booked with ATC on 01667-464293.
d) The following procedures are applicable for visual circuit training aircraft only with a MTOW of 5700 KG or more:

   i. Circuit training shall only be permitted Mon-Fri 0800-1900 (0700-1800) and Sat-Sun 0900-1800 (0800-1700);
   ii. In the event of continuous circuit flying for 2 hours, a 30 minute break from circuit training shall occur for all aircraft with a MTOW of 5700 KG or more;
   iii. Circuit direction will be frequently varied by ATC;
   iv. Where possible, pilots shall avoid overflying surrounding villages whilst operating in the circuit. This is particularly important for those portions of the flight that are operated below 1000 FT.

EGPE AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGPE AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

2 RESTRICTIVE AREAS

a) Inverness airport is situated adjacent to RAF Lossiemouth, and Danger Area EGD703, Tain Range. IFR flights may require extended vectoring due to military activity in the area.

3 AIR TRAFFIC SERVICES OUTSIDE CONTROLLED AIRSPACE

a) Pilots of aircraft filing IFR flight plans or booking out IFR shall notify ATC prior to departure if any service other than a Deconfliction Service is likely to be requested.
b) This does not preclude pilots from requesting any appropriate service once airborne.
c) The ILS radiates H24 but is not monitored outside the hours of ATC. Only operators approved by the airport authority are permitted to fly approaches when ATC is published closed.

4 TRANSITION LEVEL

a) Transition Level available from ATC on first contact.

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGPE AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGPE AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPE-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGPE-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGPE-5-1
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 05 (CAT A,B) - ICAO
AD 2.EGPE-8-1
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 05 (CAT C) - ICAO
AD 2.EGPE-8-2
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 05 (CAT A,B) - ICAO
AD 2.EGPE-8-3
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 05 (CAT C) - ICAO
AD 2.EGPE-8-4
INSTRUMENT APPROACH CHART VOR/DME RWY 05 (CAT A, B) - ICAO
AD 2.EGPE-8-5
INSTRUMENT APPROACH CHART VOR/DME RWY 05 (CAT C) - ICAO
AD 2.EGPE-8-6
INSTRUMENT APPROACH CHART DIRECT ARRIVALS ILS/LOC/DME RWY 05 (CAT A,B) - ICAO
AD 2.EGPE-8-7
INSTRUMENT APPROACH CHART DIRECT ARRIVALS ILS/LOC/DME RWY 05 (CAT C) - ICAO
AD 2.EGPE-8-8
INSTRUMENT APPROACH CHART DIRECT ARRIVALS VOR/DME RWY 05 (CAT A,B) - ICAO
AD 2.EGPE-8-9
INSTRUMENT APPROACH CHART DIRECT ARRIVALS VOR/DME RWY 05 (CAT C) - ICAO
AD 2.EGPE-8-10
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 23 (CAT A,B,C) - ICAO
AD 2.EGPE-8-11
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 23 (CAT A,B,C) - ICAO
AD 2.EGPE-8-12
INSTRUMENT APPROACH CHART VOR/DME RWY 23 (CAT A,B,C) - ICAO
AD 2.EGPE-8-13
INSTRUMENT APPROACH CHART VOR RWY 23 (CAT A,B,C) - ICAO
AD 2.EGPE-8-14

INSTRUMENT APPROACH CHART DIRECT ARRIVALS ILS/LOC/DME RWY 23 (CAT A,B) - ICAO
AD 2.EGPE-8-15
INSTRUMENT APPROACH CHART DIRECT ARRIVALS VOR/DME RWY 23 (CAT A,B) - ICAO
AD 2.EGPE-8-16

EGPE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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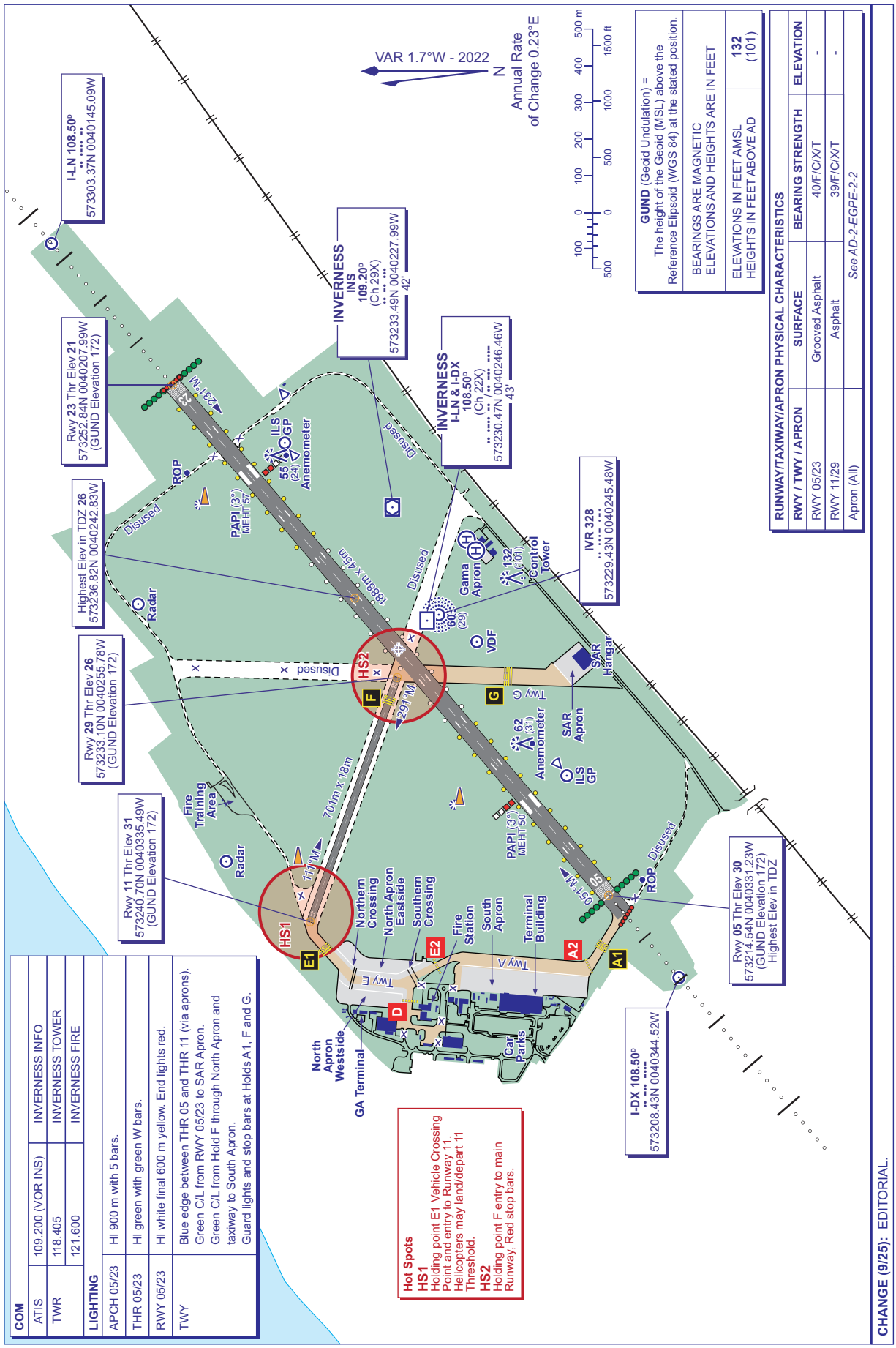
AERODROME CHART - ICAO

INVERNESS EGPE

AD ELEV 31FT

ARP 573233N 0040251W



AERO INFO DATE 18 JUN 25

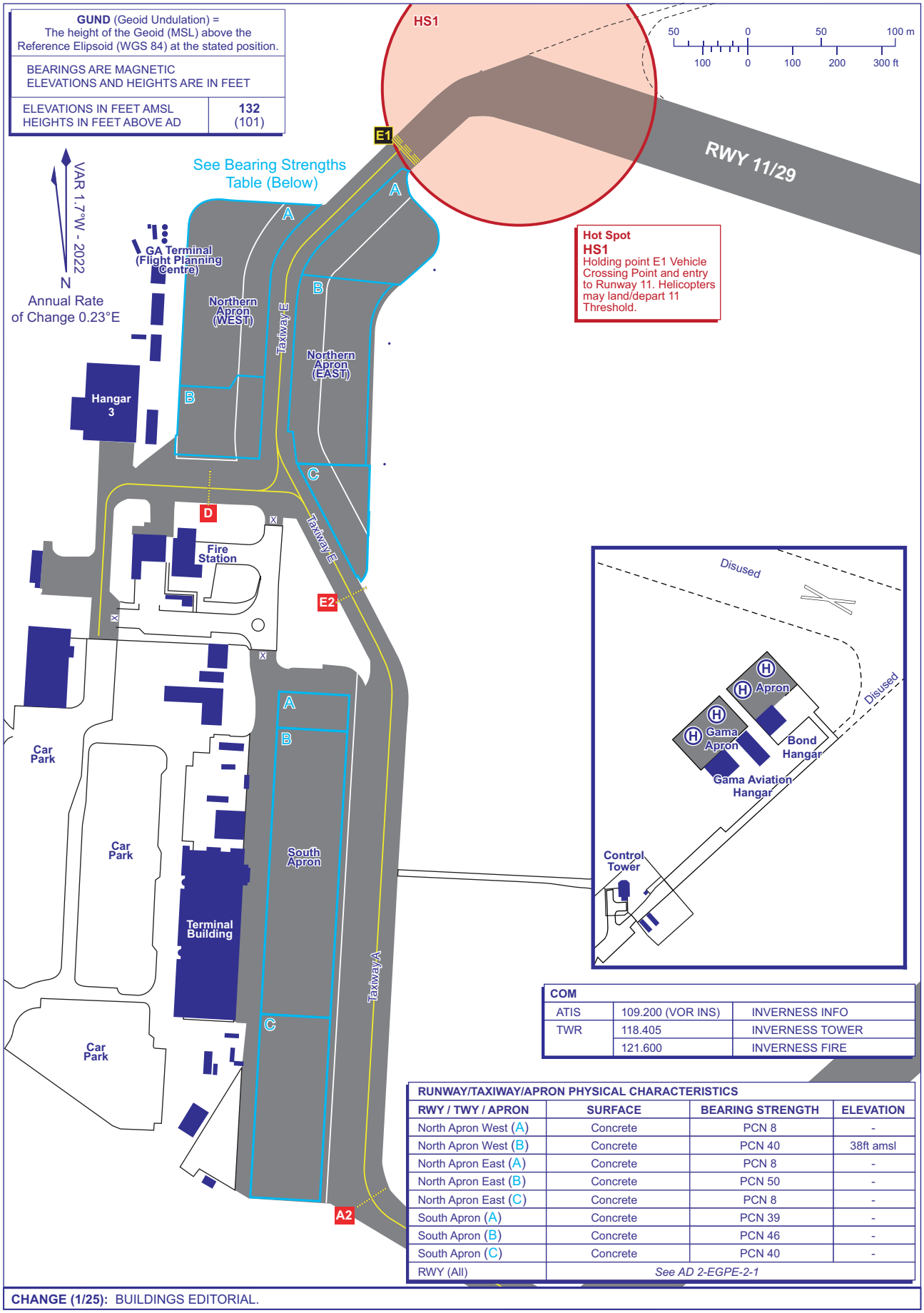
AD 2-EGPE-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 573233N 0040251W

AD ELEV 31FT

INVERNESS
EGPE



COM		
ATIS	109.200 (VOR INS)	INVERNESS INFO
TWR	118.405	INVERNESS TOWER
	121.600	INVERNESS FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	BEARING STRENGTH	ELEVATION
North Apron West (A)	Concrete	PCN 8	-
North Apron West (B)	Concrete	PCN 40	38ft amsl
North Apron East (A)	Concrete	PCN 8	-
North Apron East (B)	Concrete	PCN 50	-
North Apron East (C)	Concrete	PCN 8	-
South Apron (A)	Concrete	PCN 39	-
South Apron (B)	Concrete	PCN 46	-
South Apron (C)	Concrete	PCN 40	-
RWY (All)	*See AD 2-EGPE-2-1*		

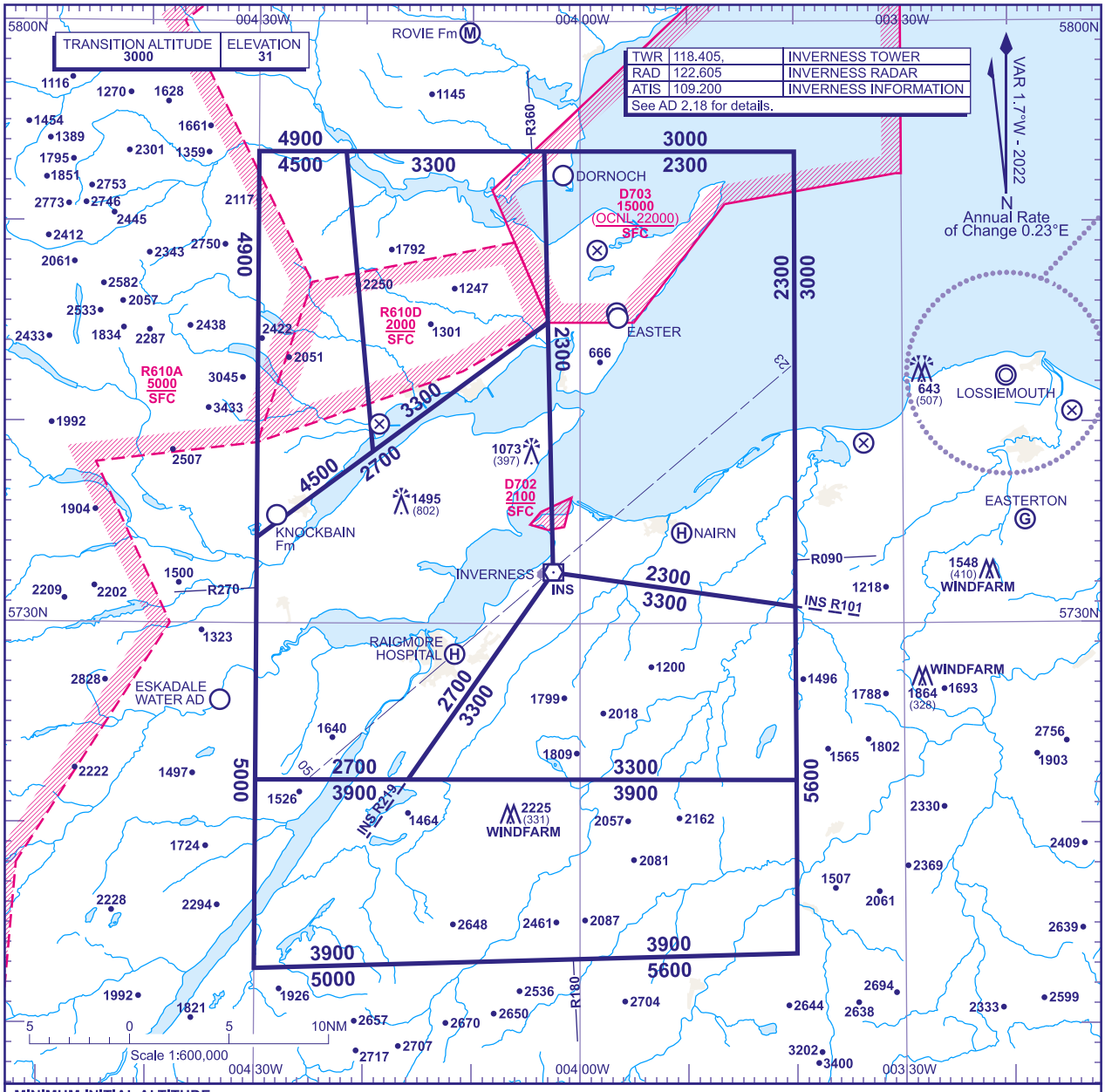
CHANGE (1/25): BUILDINGS EDITORIAL.

AERO INFO DATE 15 NOV 24

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 2232
HEIGHTS IN FEET AGL (331)

INVERNESS



MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:
a) **2300** in the sector defined by the lateral limits; 575332N 0040321W - 575330N 0034000W - 573050N 0034003W - 573233N 0040230W - 575332N 0040321W.
b) **2700** in the sector defined by the lateral limits; 573416N 0043000W - 574500N 0040300W - 573233N 0040230W - 572213N 0041554W - 572211N 0043000W - 573416N 0043000W.
c) **3300** in the sector defined by the lateral limits; 573233N 0040230W - 573050N 0034003W - 572211N 0034000W - 572213N 0041554W - 573233N 0040230W.
d) **3300** in the sector defined by the lateral limits; 575331N 0042150W - 575332N 0040321W - 574500N 0040300W - 573834N 0041915W - 575331N 0042150W.
e) **3900** in the sector defined by the lateral limits; 572211N 0043000W - 572211N 0034000W - 571332N 0034000W - 571247N 0043000W - 572211N 0043000W.
f) **4500** in the sector defined by the lateral limits; 575330N 0043000W - 575331N 0042150W - 573834N 0041915W - 573416N 0043000W - 575330N 0043000W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:
a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.
*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **5600**, or last assigned level if higher, to **VOR INS**†.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **VOR INS**†.
†In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.

CHANGE (6/25): MINIMAL INITIAL ALTITUDE AREA A INCREASED. MINIMAL INITIAL ALTITUDE AREA E INCREASED. FREQUENCIES REVISED.

AERO INFO DATE 02 APR 25
AD 2-EGPE-5-1

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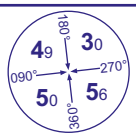
INSTRUMENT APPROACH CHART - ICAO

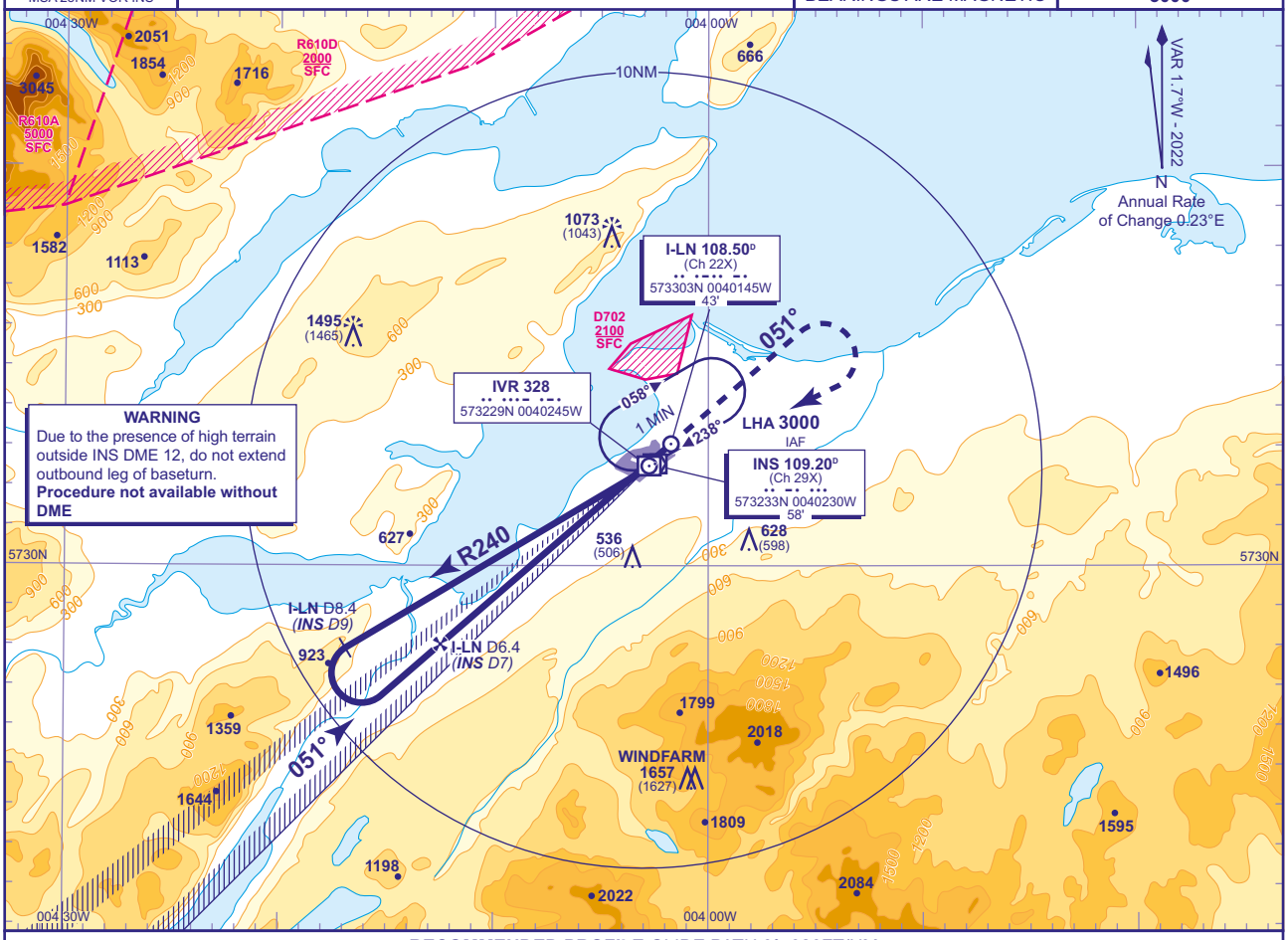
INVERNESS ILS/DME/VOR RWY 05

(ACFT CAT A,B)



MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION	1495 AMSL (1465) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000

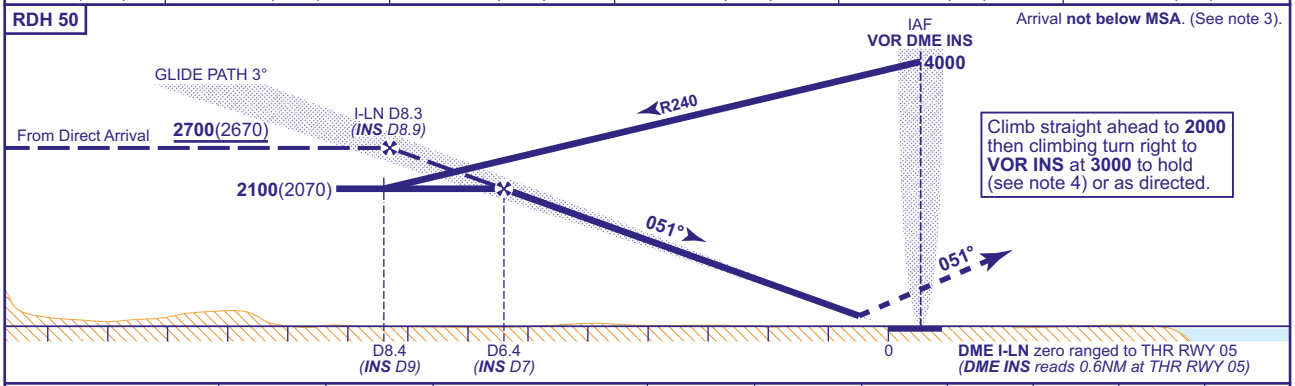


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-LN	5	4	3	2	1
ALT(HGT)	**1680**(1650)	**1360**(1330)	**1040**(1010)	**720**(690)	**400**(370)

RDH 50

Arrival **not below MSA**. (See note 3).



Aircraft Category		A	B
OCA (OCH)	CAT I	**190**(160)	**199**(169)
VM(C)OCA (OCH AAL)	Total Area	**720**(689)	**840**(809)
	North of RWY 05/23	**490**(459)	**540**(509)

Rate of descent	G/S KT	140	120	100	80
	FT/MIN	750	640	530	430

NOTE 1 NDB(L) IVR may be used if INS VOR is not available.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-7. Intermediate segment at **2700**(2670) from direct arrival to FAP shown as dotted line on profile.

CHANGE (6/25): FREQUENCIES REVISED. VM(C)OCA(OCH AAL) TOTAL AREA CAT A.

AERO INFO DATE 24 MAR 25

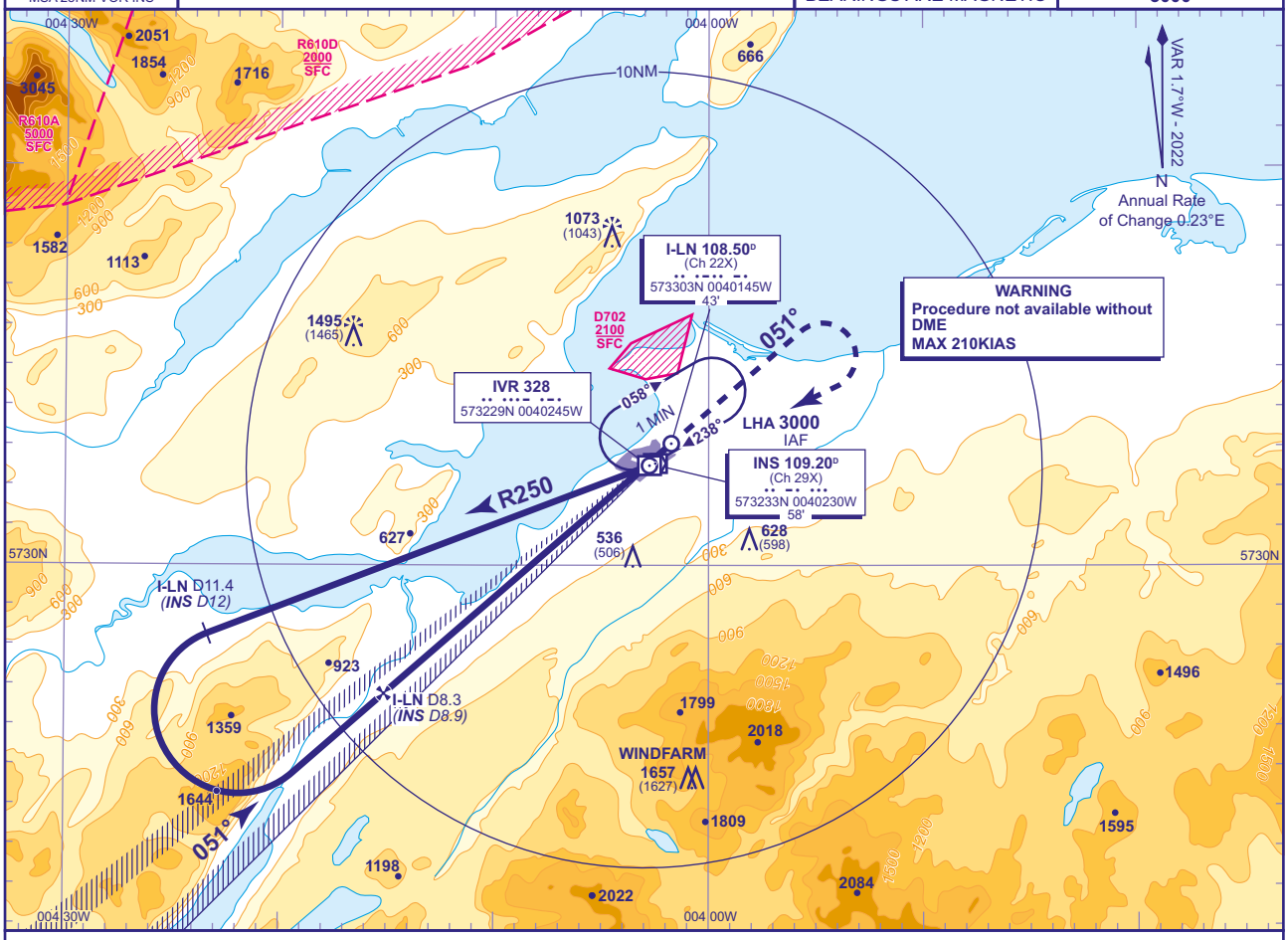
AD 2-EGPE-8-1

INSTRUMENT APPROACH CHART - ICAO

INVERNESS ILS/DME/VOR RWY 05 (ACFT CAT C)

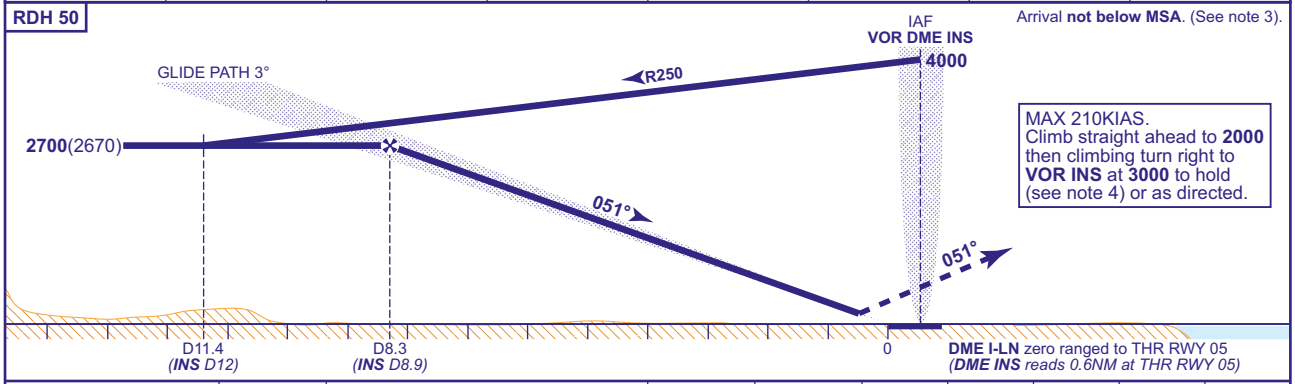
MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION **1495 AMSL** (1465) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-LN	7	6	5	4	3	2	1
ALT(HGT)	**2320**(2290)	**2000**(1970)	**1680**(1650)	**1360**(1330)	**1040**(1010)	**720**(690)	**400**(370)



Aircraft Category		C
OCA (OCH)	CAT I	**209**(179)
VM(C)OCA (OCH AAL)	Total Area	**1400**(1369)
	North of RWY 05/23	**1100**(1069)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

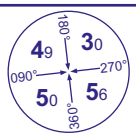
NOTE 1 NDB(L) IVR may be used if INS VOR is not available.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-8.

CHANGE (6/25): FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25 AD 2-EGPE-8-2

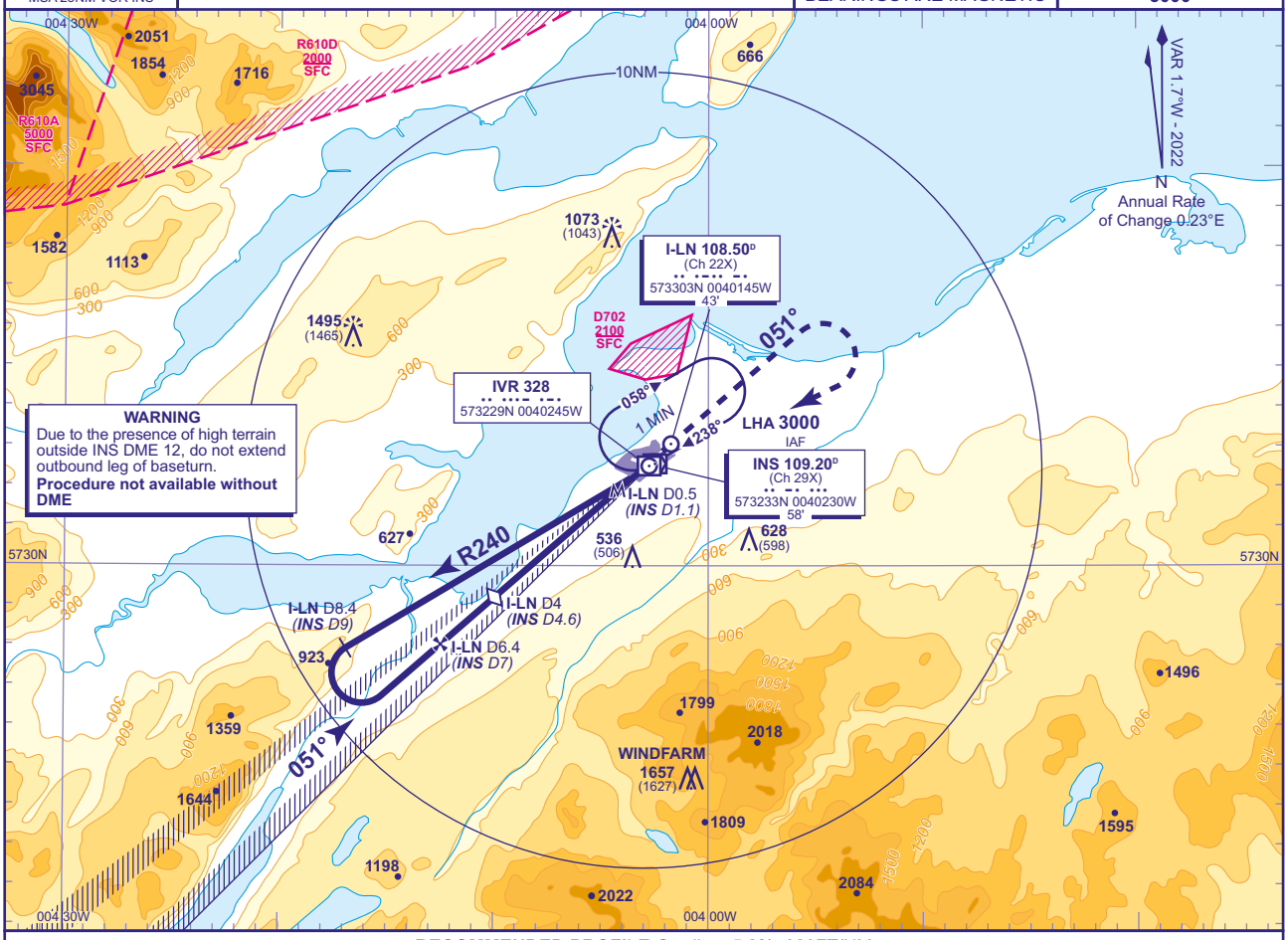
INSTRUMENT APPROACH CHART - ICAO

INVERNESS LOC/DME/VOR RWY 05
(ACFT CAT A,B)



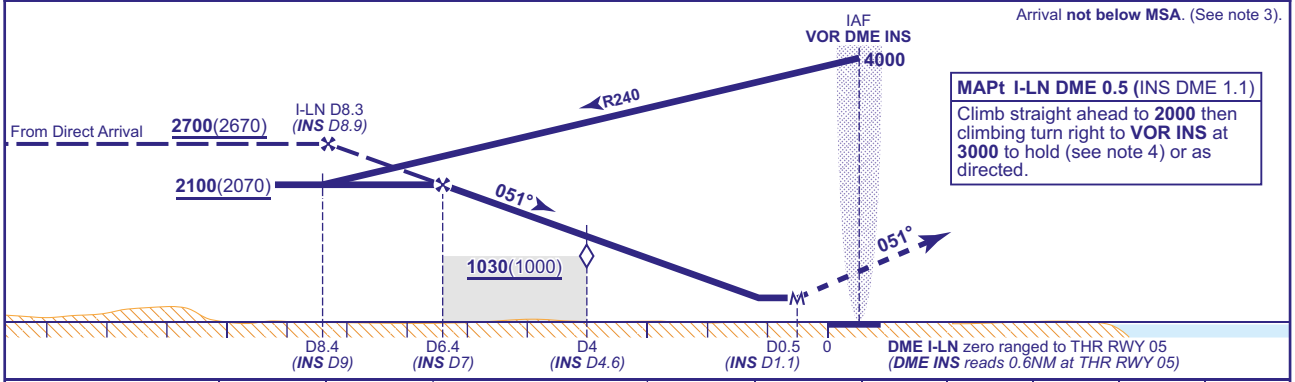
MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	TRANSITION ALTITUDE 3000
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION 1495 AMSL (1465) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-LN	5	4 (SDF)	3	2	1
ALT(HGT)	1680(1650)	1360(1330)	1040(1010)	720(690)	400(370)



Arrival **not below MSA**. (See note 3).

MAPt I-LN DME 0.5 (INS DME 1.1)
Climb straight ahead to **2000** then climbing turn right to **VOR INS** at **3000** to hold (see note 4) or as directed.

DME I-LN zero ranged to THR RWY 05
(***DME INS*** *reads 0.6NM at THR RWY 05*)

Aircraft Category		A	B
OCA (OCH)	Procedure	420(390)	420(390)
VM(C)OCA (OCH AAL)	Total Area	720(689)	840(809)
	North of RWY 05/23	490(459)	540(509)

Rate of descent	G/S KT	140	120	100	80
	FT/MIN	750	640	530	430

NOTE 1 NDB(L) IVR may be used if INS VOR is not available.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-7. Intermediate segment at **2700**(2670) from direct arrival to FAP shown as dotted line on profile.

CHANGE (6/25): FREQUENCIES REVISED. VM(C)OCA(OCH AAL) TOTAL AREA CAT A.

AERO INFO DATE 24 MAR 25

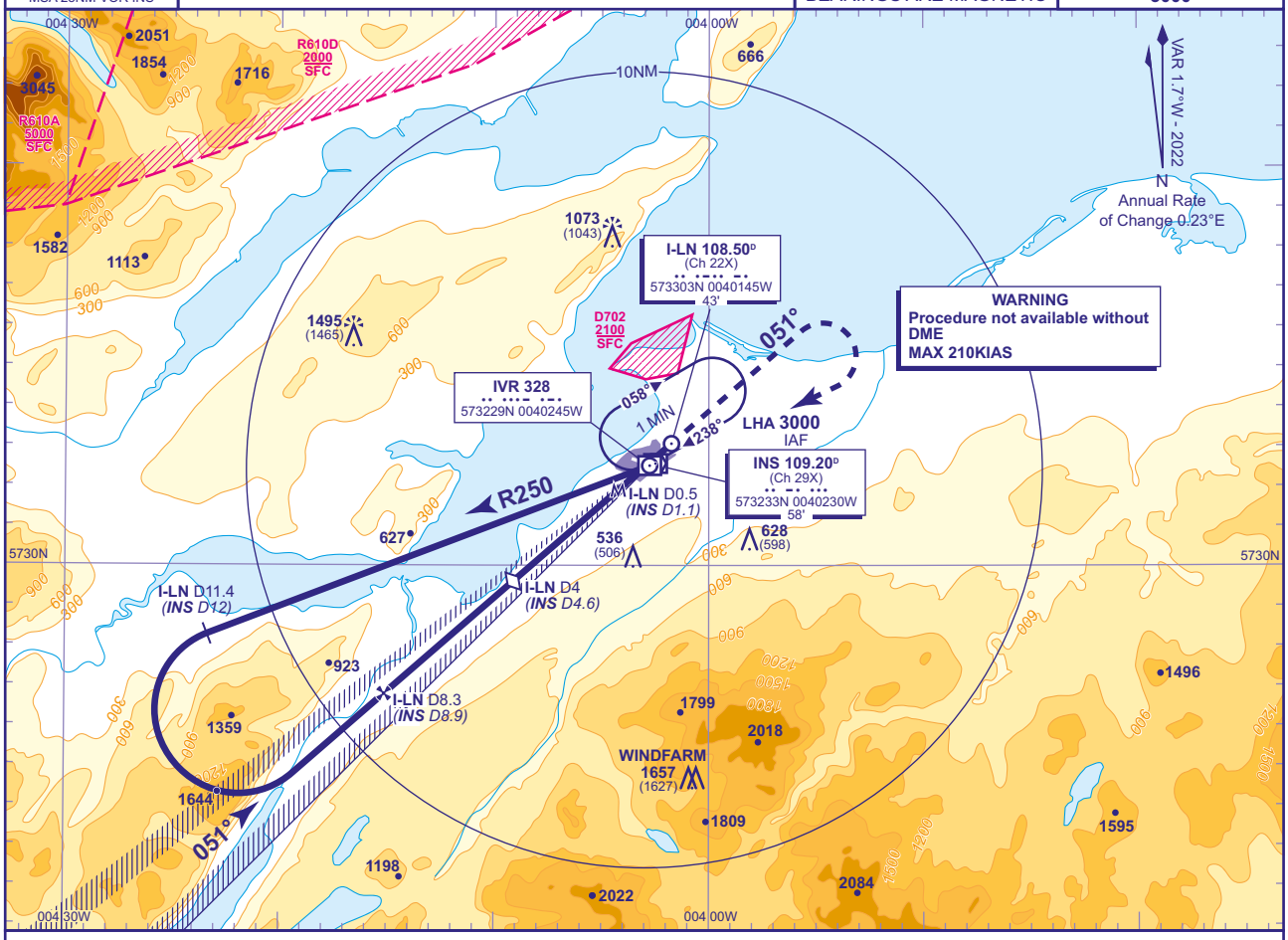
AD 2-EGPE-8-3

INSTRUMENT APPROACH CHART - ICAO

INVERNESS LOC/DME/VOR RWY 05
(ACFT CAT C)

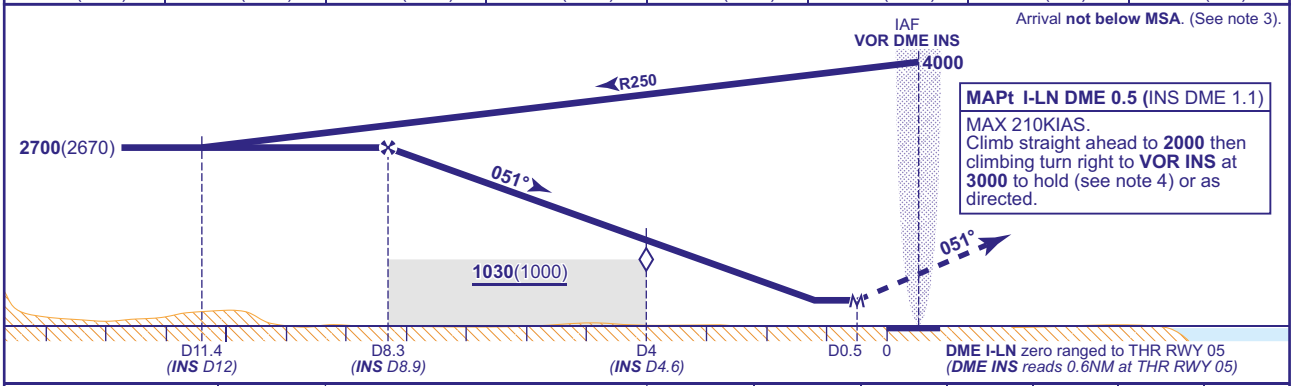
MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION **1495 AMSL** (1465) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-LN	7	6	5	4 (SDF)	3	2	1
ALT(HGT)	**2320**(2290)	**2000**(1970)	**1680**(1650)	**1360**(1330)	**1040**(1010)	**720**(690)	**400**(370)



Arrival **not below MSA**. (See note 3).

MAPt I-LN DME 0.5 (INS DME 1.1)
MAX 210KIAS.
Climb straight ahead to **2000** then climbing turn right to **VOR INS** at **3000** to hold (see note 4) or as directed.

DME I-LN zero ranged to THR RWY 05
(***DME INS*** *reads 0.6NM at THR RWY 05*)

Aircraft Category		C
OCA (OCH)	Procedure	**420**(390)
VM(C)OCA (OCH AAL)	Total Area	**1400**(1369)
	North of RWY 05/23	**1100**(1069)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

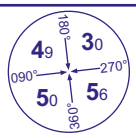
NOTE 1 NDB(L) IVR may be used if INS VOR is not available.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-8.

CHANGE (6/25): FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25 AD 2-EGPE-8-4

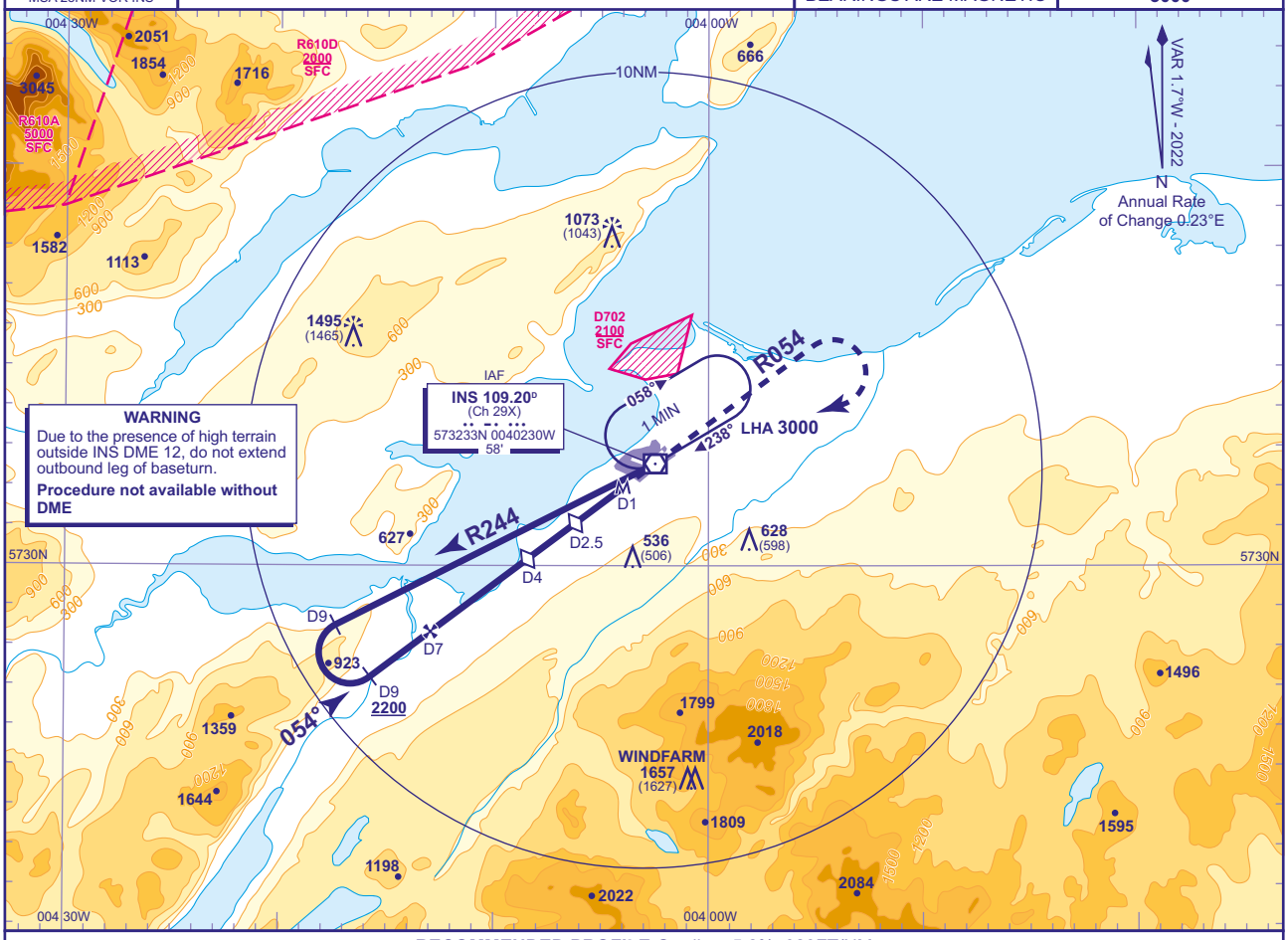
INSTRUMENT APPROACH CHART - ICAO

INVERNESS VOR/DME RWY 05
(ACFT CAT A,B)



MSA 25NM VOR INS

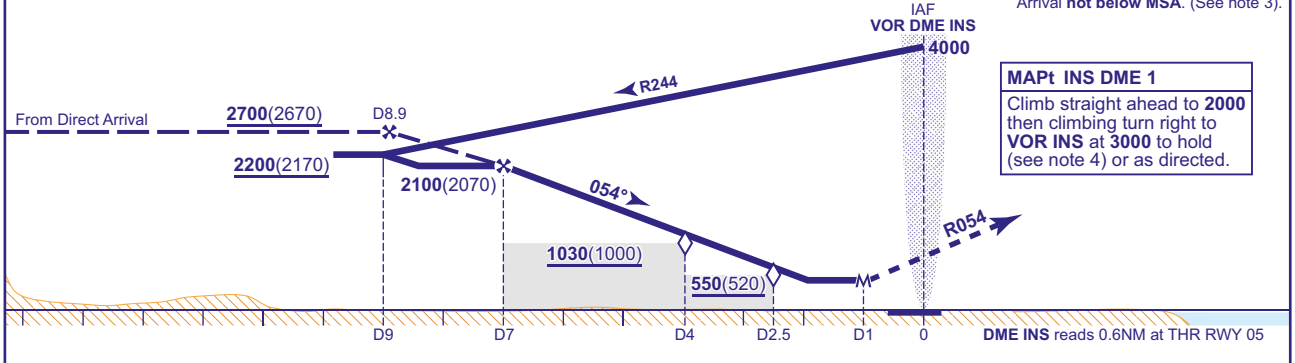
TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION 1495 AMSL (1465) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME INS	6	5	4 (SDF)	3	2.5 (SDF)	2
ALT(HGT)	1780(1750)	1460(1430)	1140(1110)	820(790)	660(630)	500(470)

Arrival **not below MSA**. (See note 3).



MAPt INS DME 1
Climb straight ahead to **2000** then climbing turn right to **VOR INS** at **3000** to hold (see note 4) or as directed.

Aircraft Category		A	B
OCA (OCH)	Procedure	480(450)	480(450)
VM(C)OCA (OCH AAL)	Total Area	720(689)	840(809)
	North of RWY 05/23	490(459)	540(509)

Rate of descent	G/S KT	140	120	100	80
	FT/MIN	750	640	530	430

NOTE 1 FAT offset 4° north of RWY 05 C/L.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-9. Intermediate segment at **2700**(2670) from direct arrival to FAP shown as dotted line on profile.

CHANGE (6/25): FREQUENCIES REVISED. OCA(OCH CAT A/B, VM(C)OCA(OCH AAL) TOTAL AREA CAT A. INCREASE BASE TURN ALTITUDE.

AERO INFO DATE 03 APR 25

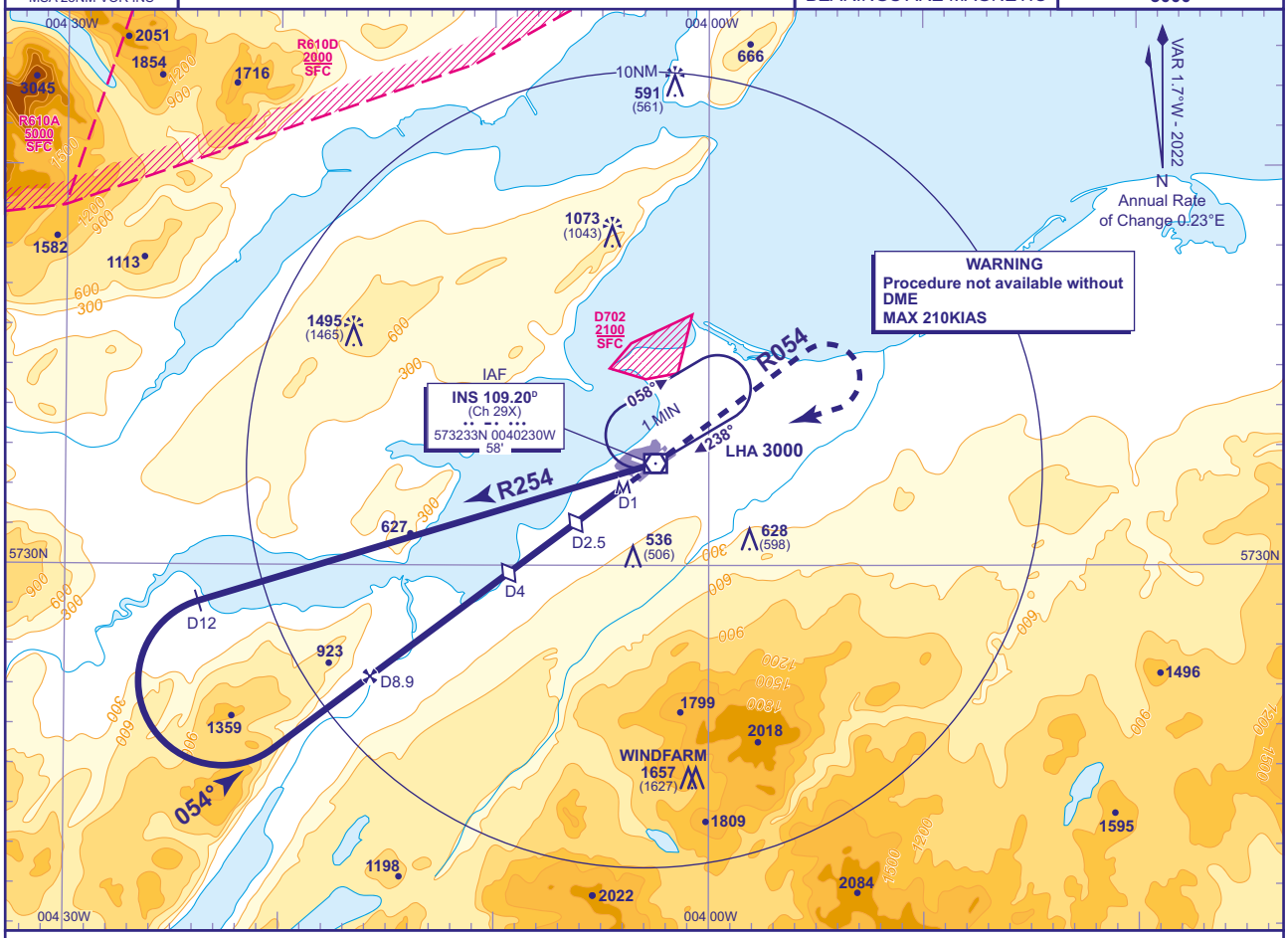
AD 2-EGPE-8-5

INSTRUMENT APPROACH CHART - ICAO

INVERNESS VOR/DME RWY 05
(ACFT CAT C)

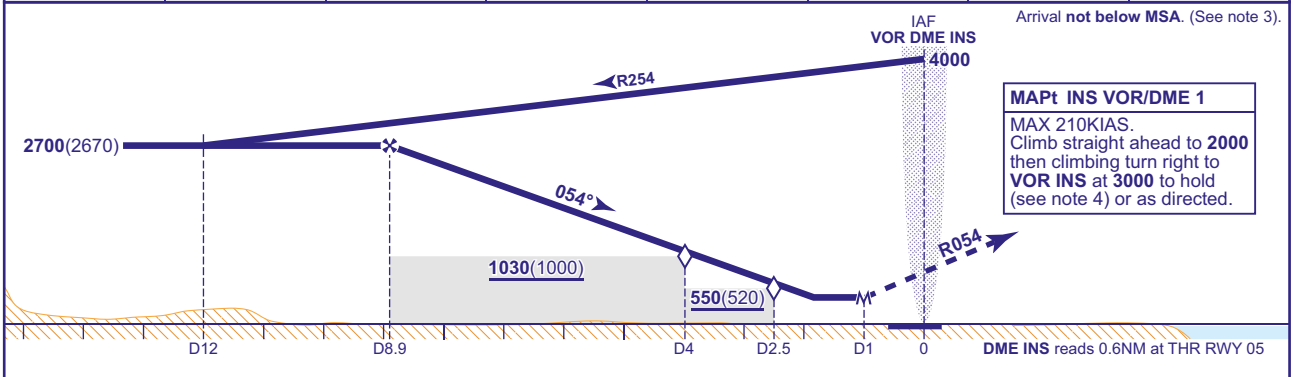
MSA 25NM VOR INS

TWR	118.405	NVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION	**1495 AMSL** (1465) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME INS	7	6	5	4 **(SDF)**	3	2.5 **(SDF)**	2
ALT(HGT)	**2100**(2070)	**1780**(1750)	**1460**(1430)	**1140**(1110)	**820**(790)	**660**(630)	**500**(470)



Arrival **not below MSA**. (See note 3).

MAPt INS VOR/DME 1
MAX 210KIAS.
Climb straight ahead to **2000** then climbing turn right to **VOR INS** at **3000** to hold (see note 4) or as directed.

Aircraft Category		**C**
OCA (OCH)	**Procedure**	**480**(450)
VM(C)OCA (OCH AAL)	**Total Area**	**1400**(1369)
	North of RWY 05/23	**1100**(1069)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	750	640	530	430

NOTE 1 FAT offset 4° north of RWY 05C/L.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-6.

CHANGE (6/25): FREQUENCIES REVISED. OCA(OCH) CAT C.

AERO INFO DATE 24 MAR 25 AD 2-EGPE-8-6

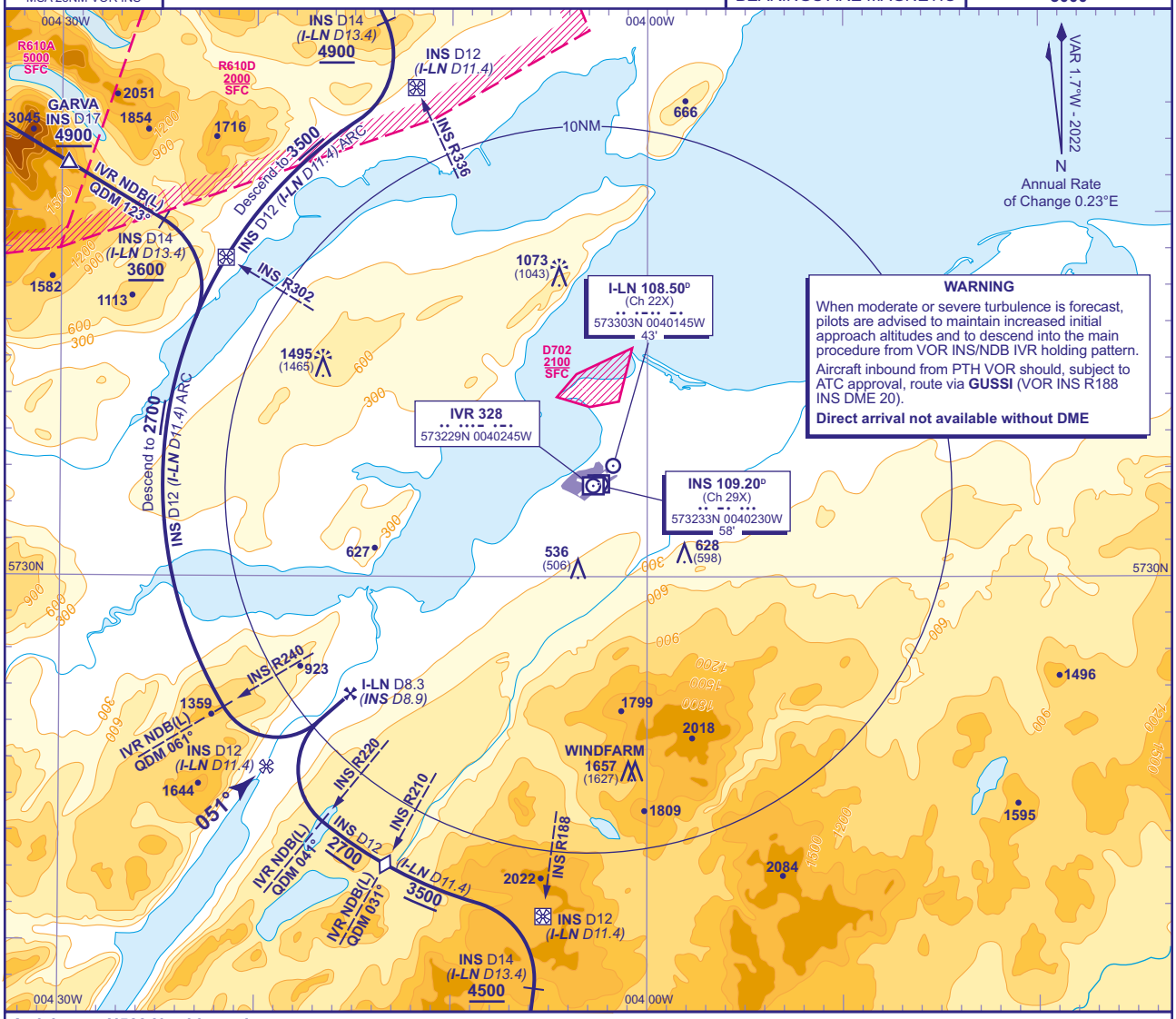
INSTRUMENT APPROACH CHART - ICAO

INVERNESS
Direct Arrivals
ILS/LOC/DME
RWY 05
(ACFT CAT A,B)

MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION 1495 AMSL (1465) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 3000



Arriving on N560 Northbound
Arrival from the south on VOR INS R188 (QDM 009°) **not below 5800**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 5000**, and after passing **GUSSI** (INS DME 20) descend **not below 4500**. From INS DME 14 (I-LN DME 13.4) turn left to establish on INS DME 12 (I-LN DME 11.4) arc clockwise. When established, descend along the arc **not below 3500**. After crossing step down VOR INS R210 (IVR NDB(L) QDM 031°), continue descent to **2700**(2670), then from lead VOR INS R220 (IVR NDB(L) QDM 041°) turn right onto localizer. From FAF I-LN DME 8.3 (INS DME 8.9) at **2700**(2670), continue with ILS/LOC/DME final approach.

Arriving on N560 Southbound
Arrival on N560 **not below 5000**. Request ATC approval for DME arc arrival when within INS DME 40. When approved, after passing **BONBY** (INS DME 23) descend **not below 4900**. Establish on INS R336 (QDM 157°) from INS DME 14 (I-LN DME 13.4) turn right to establish on INS DME 12 (I-LN DME 11.4) arc anticlockwise. When established, descend along the arc **not below 3500**. After crossing INS R302 (IVR NDB(L) QDM 123°), continue descent to **2700**(2670), then from lead VOR INS R240 (IVR NDB(L) QDM 061°) turn left onto localizer. From FAF I-LN DME 8.3 (INS DME 8.9) at **2700**(2670), continue with ILS/LOC/DME final approach.

Arriving on Y906 Southeastbound
Arrival on VOR INS R302 (IVR NDB(L) QDM 123°) **not below 5200**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 4900**, and after passing **GARVA** (INS DME 17) descend **not below 3600**. From INS DME 14 (I-LN DME 13.4) turn right to establish on INS DME 12 (I-LN DME 11.4) arc anticlockwise. When established continue descent to **2700**(2670), then from lead VOR INS R240 (IVR NDB(L) QDM 061°) turn left onto localizer. From FAF I-LN DME 8.3 (INS DME 8.9) at **2700**(2670), continue with ILS/LOC/DME final approach.

CHANGE (6/25): FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25

AD 2-EGPE-8-7

INSTRUMENT APPROACH CHART - ICAO

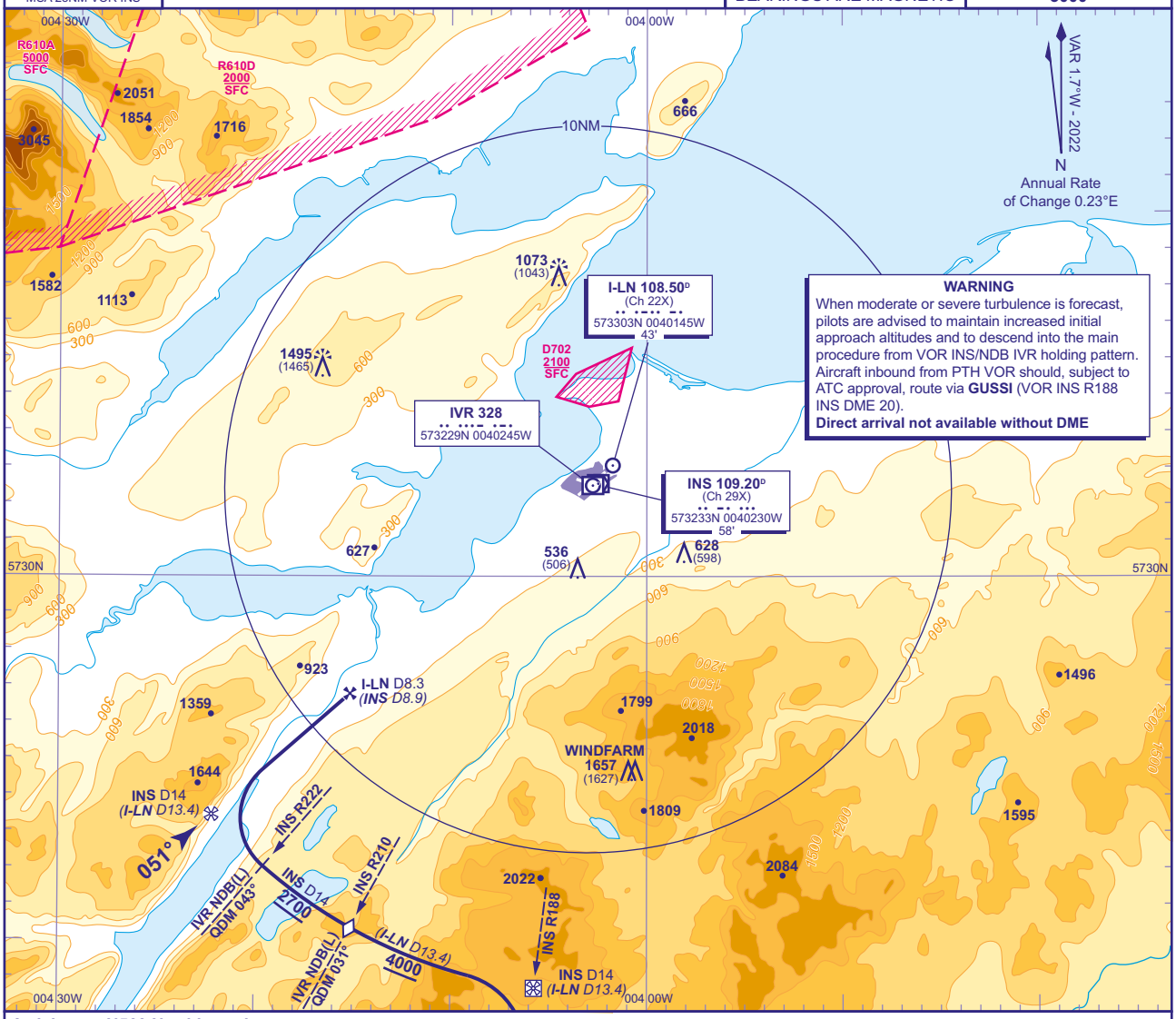
INVERNESS
Direct Arrivals
ILS/LOC/DME
RWY 05
(ACFT CAT C)



MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION **1495 AMSL** (1465) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

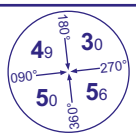


Arriving on N560 Northbound
Arrival from the south on VOR INS R188 (QDM 009°) **not below 5800**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 5000**. From INS DME 16 (I-LN DME 15.4) turn left to establish on INS DME 14 (I-LN DME 13.4) arc clockwise. When established, descend along the arc **not below 4000**. After crossing step down VOR INS R210 (IVR NDB(L) QDM 031°), continue descent to **2700**(2670), then from lead VOR INS R222 (IVR NDB(L) QDM 043°) turn right onto localizer. From FAF I-LN DME 8.3 (INS DME 8.9) at **2700**(2670), continue with ILS/LOC/DME final approach.

CHANGE (6/25): FREQUENCIES REVISED.

INSTRUMENT APPROACH CHART - ICAO

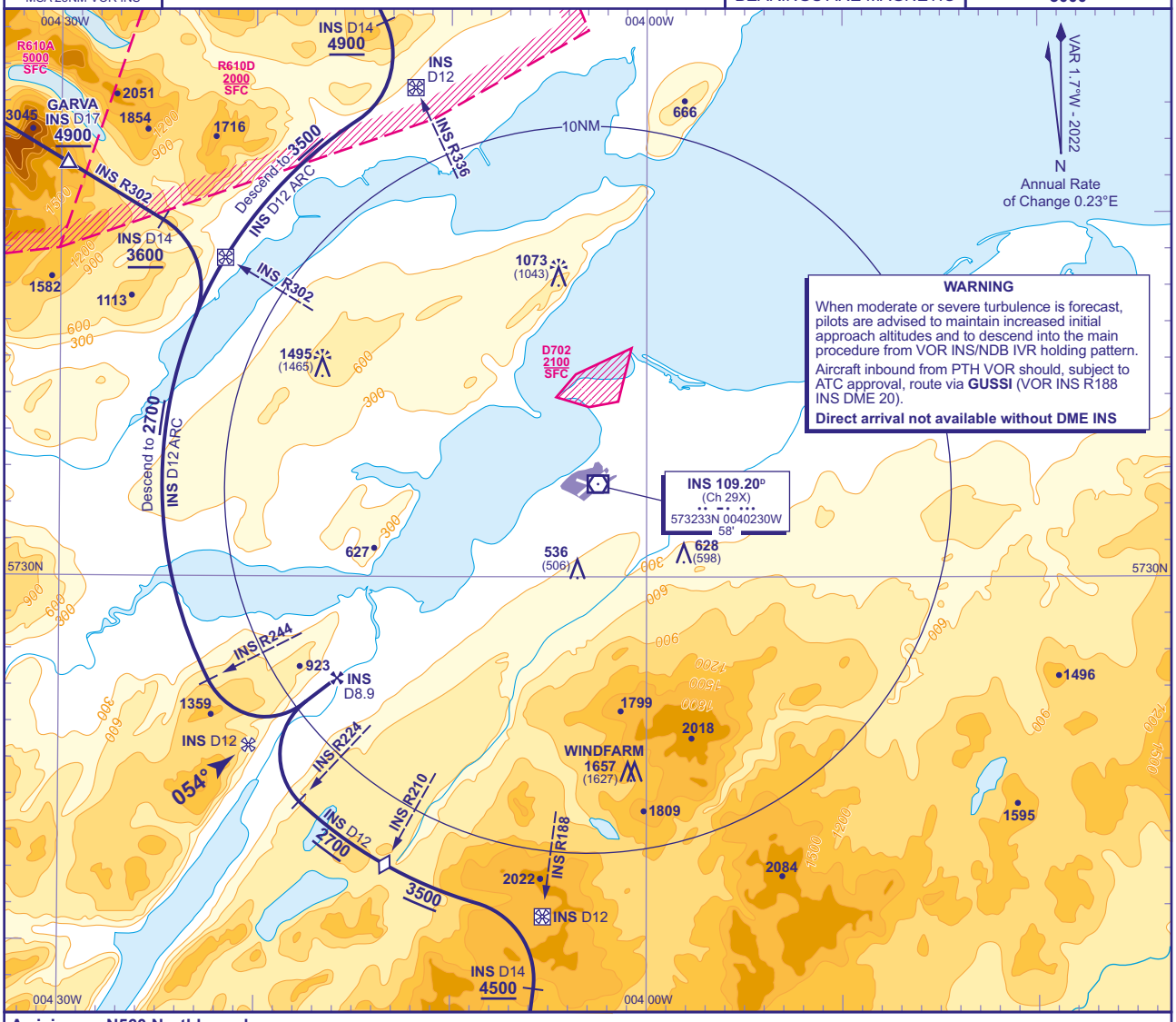
INVERNESS
Direct Arrivals
VOR/DME
RWY 05
(ACFT CAT A,B)



MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION **1495 AMSL** (1465) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
3000



Arriving on N560 Northbound
Arrival from the south on VOR INS R188 (QDM 009°) **not below 5800**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 5000**, and after passing **GUSSI** (INS DME 20) descend **not below 4500**. From INS DME 14 turn left to establish on INS DME 12 arc clockwise. When established, descend along the arc **not below 3500**. After crossing step down VOR INS R210, continue descent to **2700**(2670), then from lead VOR INS R224 turn right onto extended FAT. From FAF INS DME 8.9 at **2700**(2670), continue with VOR/DME final approach.

Arriving on N560 Southbound
Arrival on N560 **not below 5000**. Request ATC approval for DME arc arrival when near **BONBY**. When approved, after passing **BONBY** (INS DME 23) descend **not below 4900**. Establish on INS R336 (QDM 157°) from INS DME 14 turn right to establish on INS DME 12 arc anticlockwise. When established, descend along the arc **not below 3500**. After crossing INS R302, continue descent to **2700**(2670), then from lead VOR INS R244 turn left to establish on extended FAT. From FAF INS DME 8.9 at **2700**(2670), continue with VOR/DME final approach.

Arriving on Y906 Southeastbound
Arrival on VOR INS R302 (QDM 123°) **not below 5200**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 4900**, and after passing **GARVA** (INS DME 17) descend **not below 3600**. From INS DME 14 turn right to establish on INS DME 12 arc anticlockwise. When established continue descent to **2700**(2670), then from lead VOR INS R244 turn left to establish on extended FAT. From FAF INS DME 8.9 at **2700**(2670), continue with VOR/DME final approach.

CHANGE (6/25): FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25

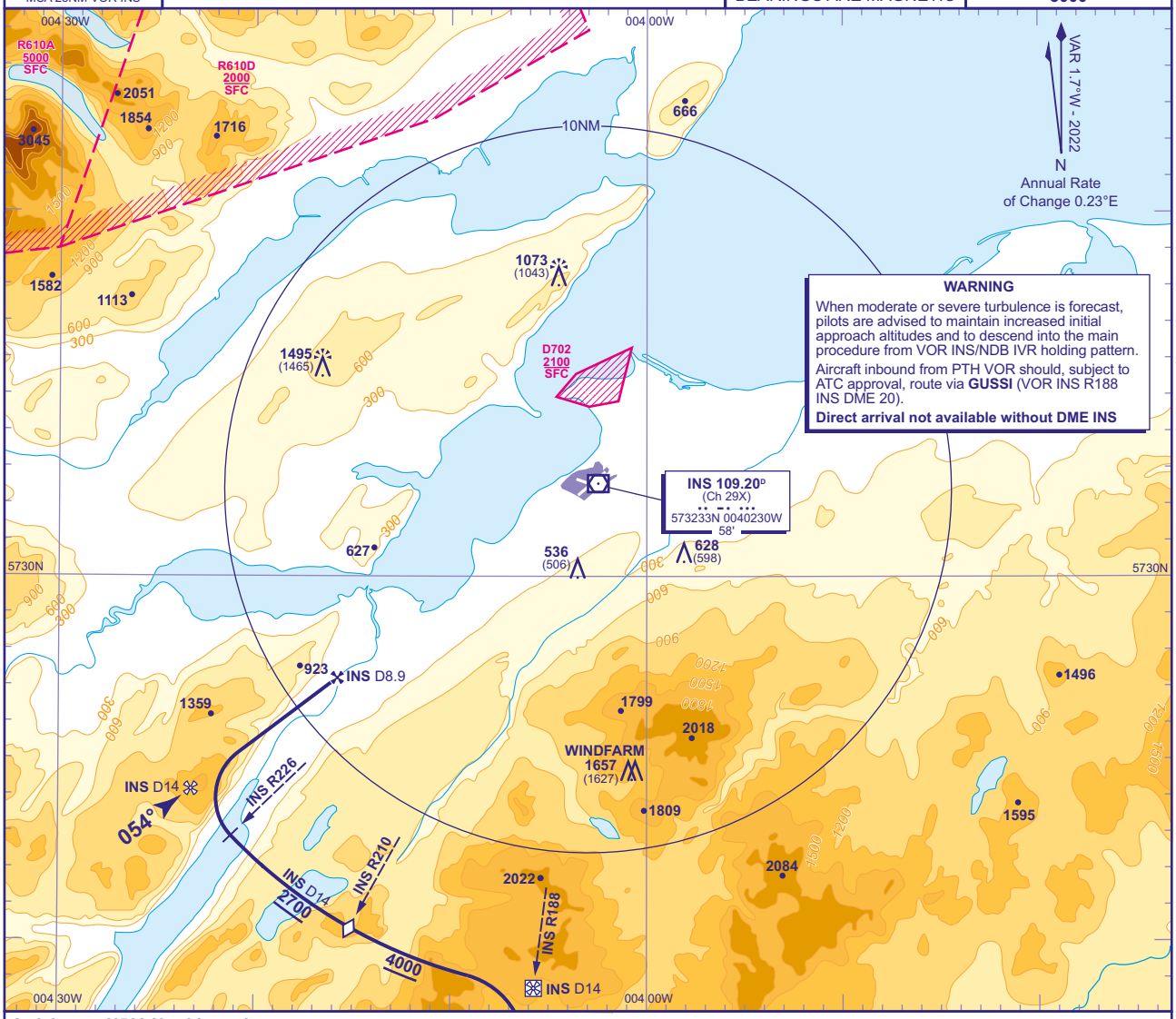
INSTRUMENT APPROACH CHART - ICAO

INVERNESS
Direct Arrivals
VOR/DME
RWY 05
(ACFT CAT C)

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31
RAD	122.605	INVERNESS RADAR	THR ELEVATION	30
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION **1495 AMSL** (1465) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

MSA 25NM VOR INS



WARNING
When moderate or severe turbulence is forecast, pilots are advised to maintain increased initial approach altitudes and to descend into the main procedure from VOR INS/NDB IVR holding pattern.
Aircraft inbound from PTH VOR should, subject to ATC approval, route via **GUSSI** (VOR INS R188 INS DME 20).
Direct arrival not available without DME INS

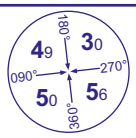
Arriving on N560 Northbound
Arrival from the south on VOR INS R188 (QDM 008°) **not below 5800**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 5000**. From INS DME 16 turn left to establish on INS DME 14 arc clockwise. When established, descend along the arc **not below 4000**. After crossing step down VOR INS R210, continue descent to **2700**(2670), then from lead VOR INS R226 turn right onto extended FAT. From FAF INS DME 8.9 at **2700**(2670), continue with VOR/DME final approach.

CHANGE (6/25): FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25
AD 2-EGPE-8-10

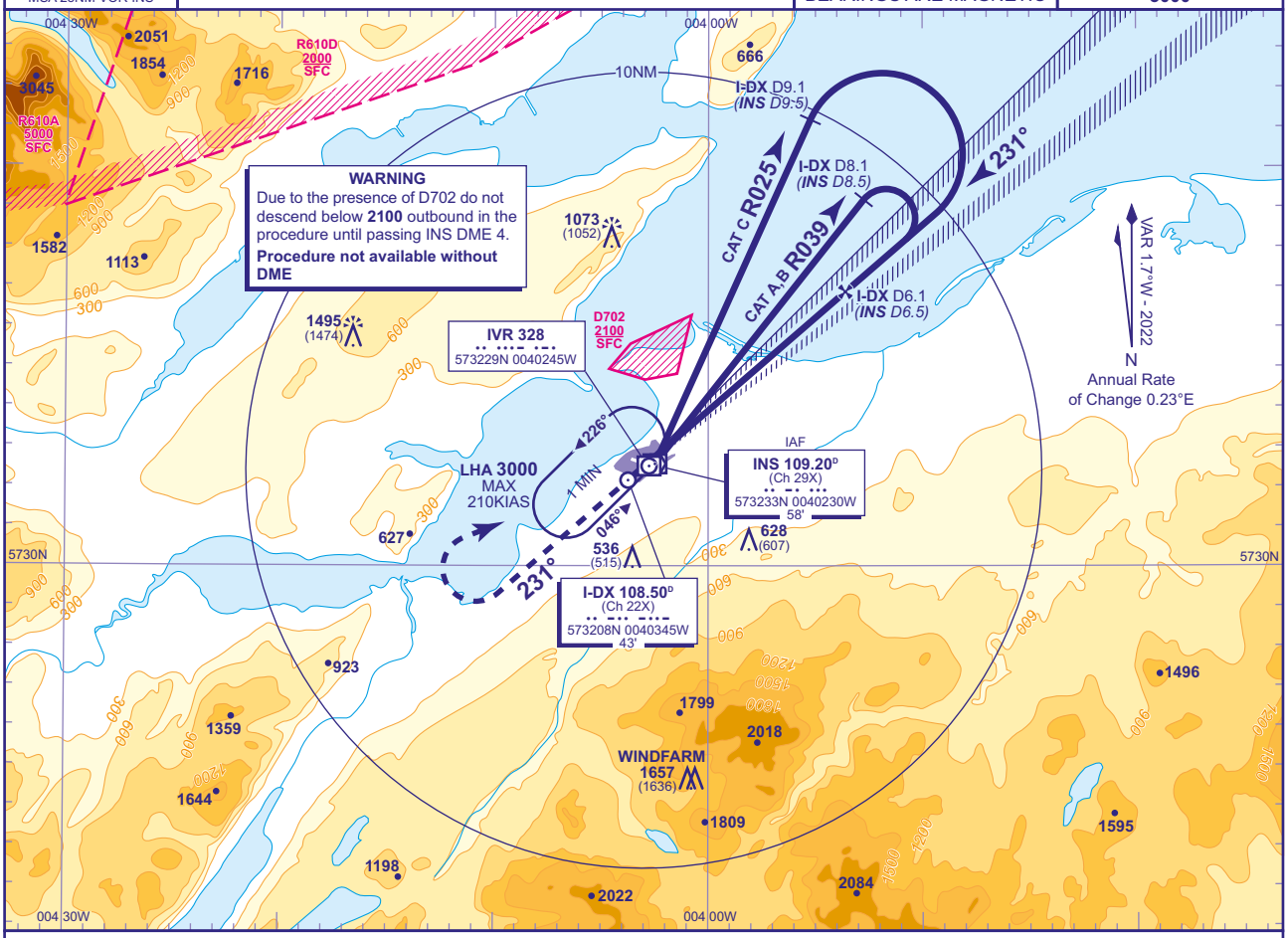
INSTRUMENT APPROACH CHART - ICAO

INVERNESS ILS/DME/VOR RWY 23 (ACFT CAT A,B,C)



MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	21	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION	1495 AMSL (1474) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000

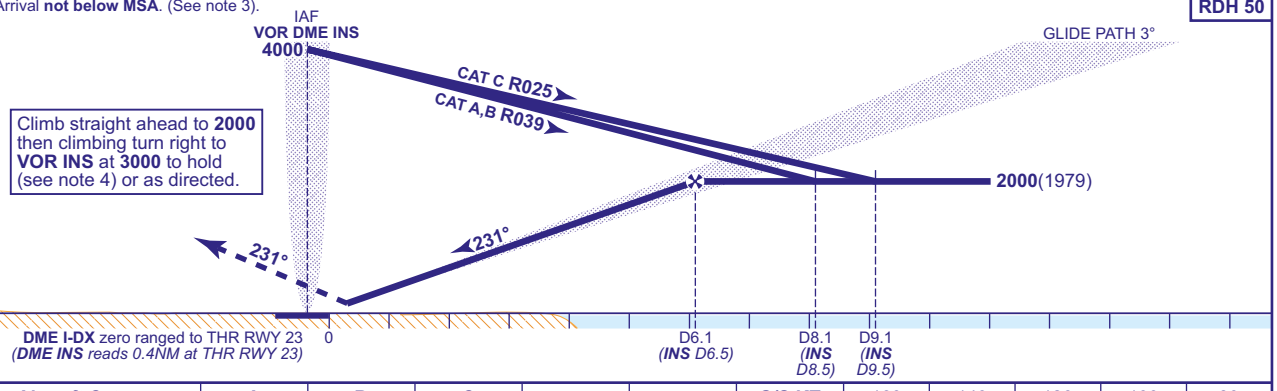


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-DX	5	4	3	2	1
ALT(HGT)	**1670**(1649)	**1350**(1329)	**1030**(1009)	**710**(689)	**390**(369)

Arrival **not below MSA**. (See note 3).

RDH 50



Aircraft Category		A	B	C
OCA (OCH)	CAT I	**177**(156)	**187**(166)	**199**(178)
VM(C)OCA (OCH AAL)	Total Area	**720**(689)	**840**(809)	**1400**(1369)
	North of RWY 05/23	**490**(459)	**540**(509)	**1100**(1069)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

NOTE 1 NDB(L) IVR may be used if INS VOR is not available.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-15.

CHANGE (6/25): FREQUENCIES REVISED. VM(C)OCA(OCH AAL) TOTAL AREA CAT A.

AERO INFO DATE 24 MAR 25

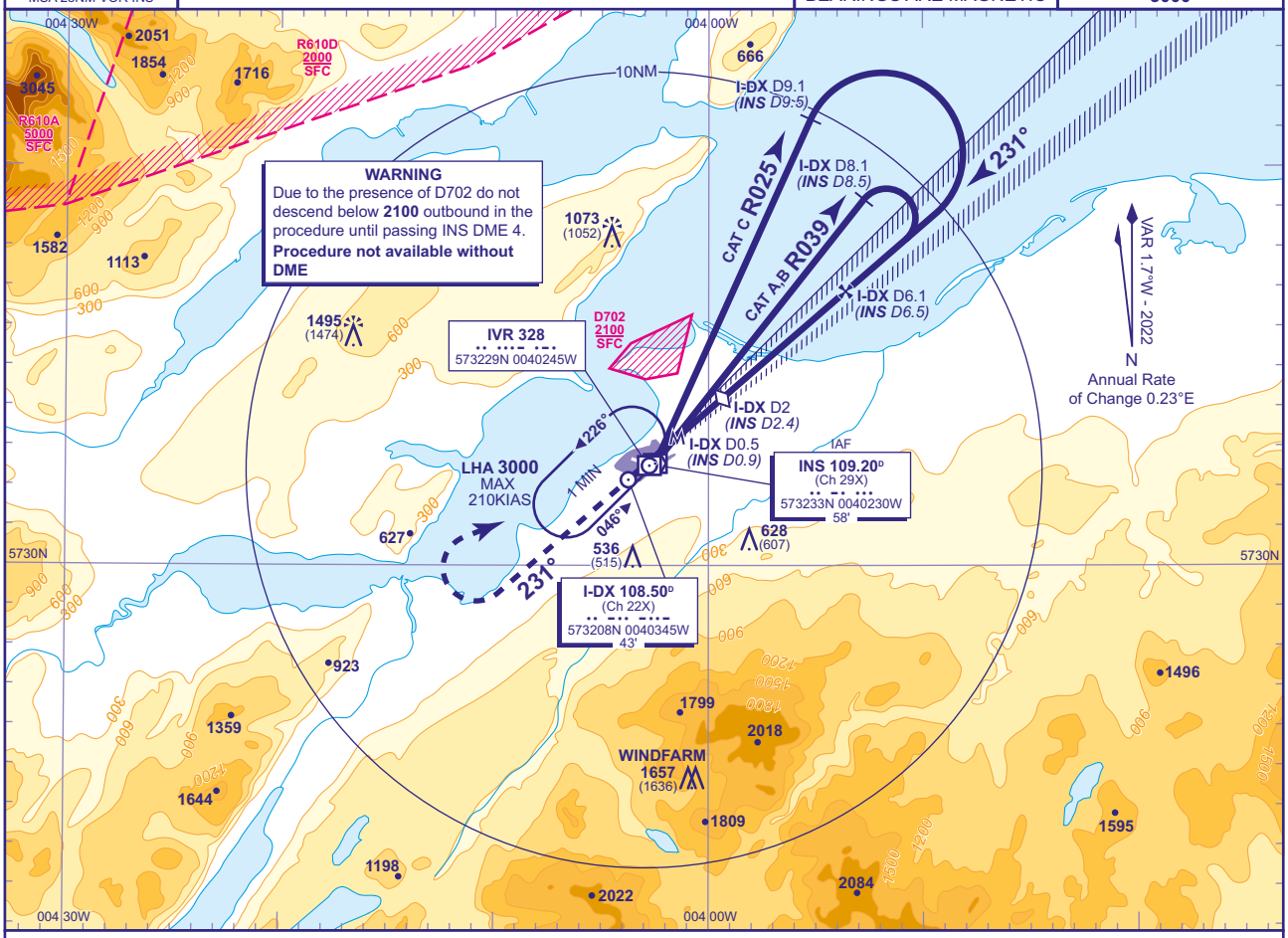
AD 2-EGPE-8-11

INSTRUMENT APPROACH CHART - ICAO

INVERNESS LOC/DME/VOR RWY 23 (ACFT CAT A,B,C)

MSA 25NM VOR INS

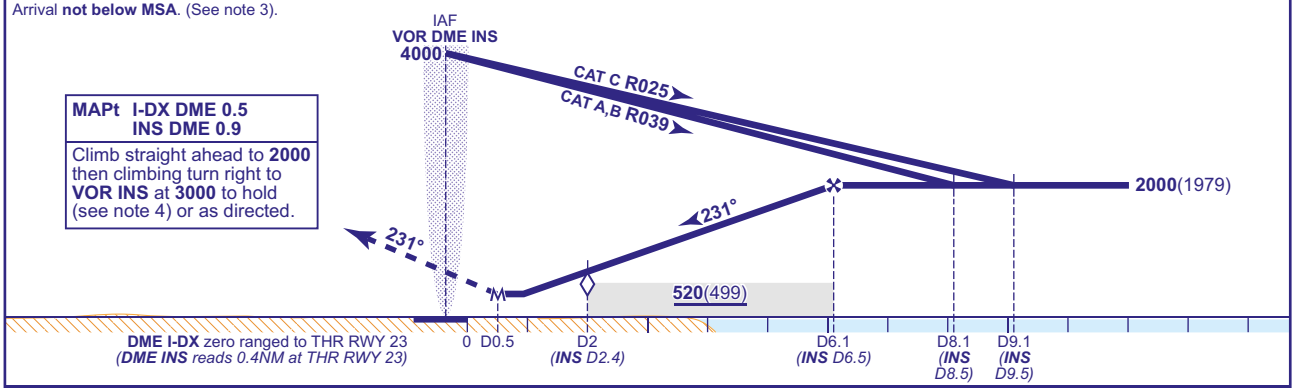
TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	21	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION	**1495 AMSL** (1474) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-DX	5	4	3	2 **(SDF)**	1
ALT(HGT)	**1670**(1649)	**1350**(1329)	**1030**(1009)	**710**(689)	**390**(369)

Arrival **not below MSA**. (See note 3).



MAPt I-DX DME 0.5
INS DME 0.9
Climb straight ahead to **2000** then climbing turn right to **VOR INS** at **3000** to hold (see note 4) or as directed.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**380**(359)	**380**(359)	**380**(359)
VM(C)OCA (OCH AAL)	**Total Area**	**720**(689)	**840**(809)	**1400**(1369)
	North of RWY 05/23	**490**(459)	**540**(509)	**1100**(1069)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

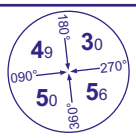
NOTE 1 NDB(L) IVR may be used if INS VOR is not available.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-15 (not available to CAT C aircraft).

CHANGE (6/25): FREQUENCIES REVISED. OCA(OCH) CAT A/B/C, VM(C)OCA(OCH AAL) TOTAL AREA CAT A.

AERO INFO DATE 24 MAR 25 AD 2-EGPE-8-12

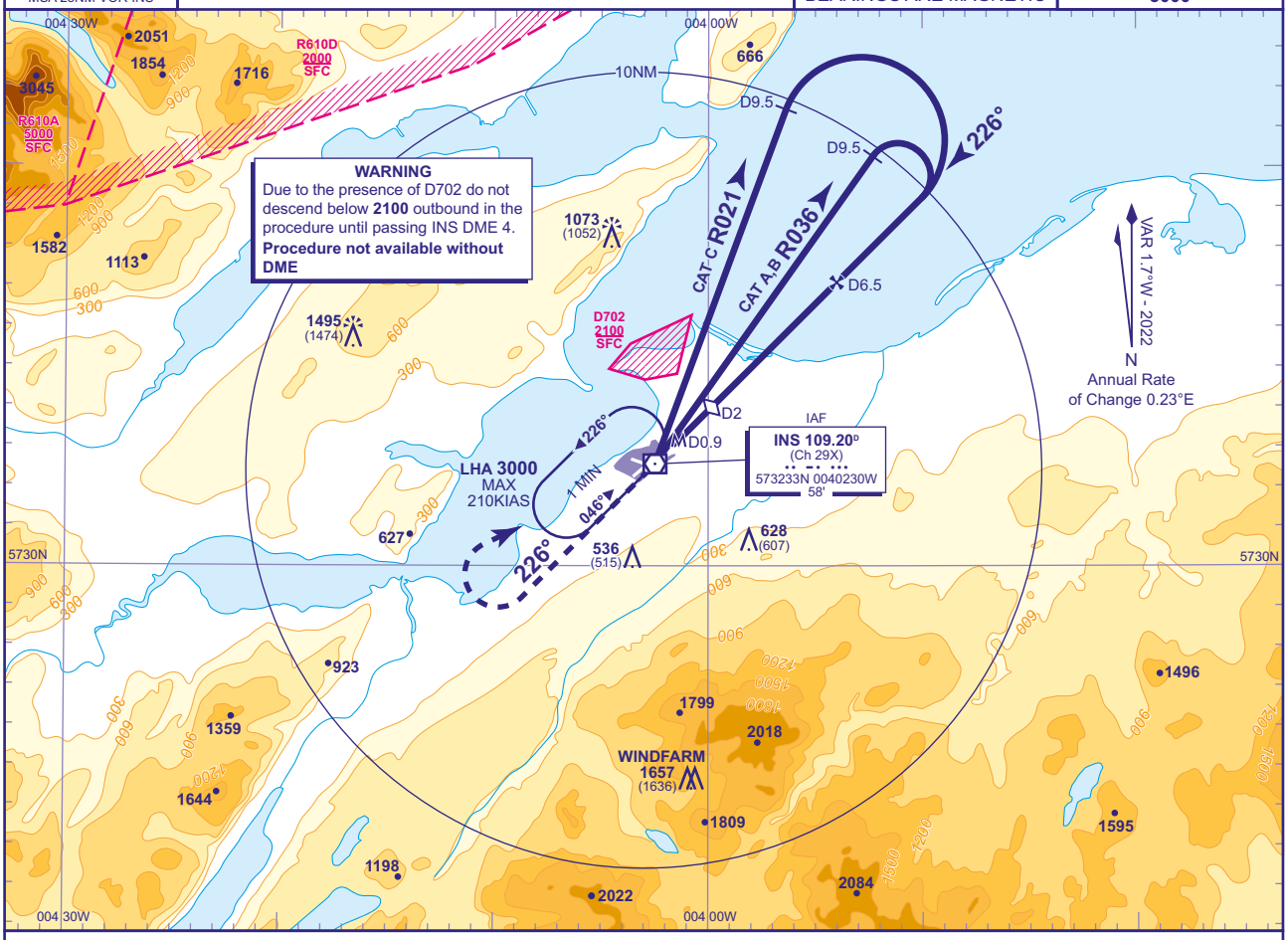
INSTRUMENT APPROACH CHART - ICAO

INVERNESS VOR/DME RWY 23
(ACFT CAT A,B,C)



MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	
RAD	122.605	INVERNESS RADAR	THR ELEVATION	21	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION	1495 AMSL (1474) (ABOVE THR)	
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000

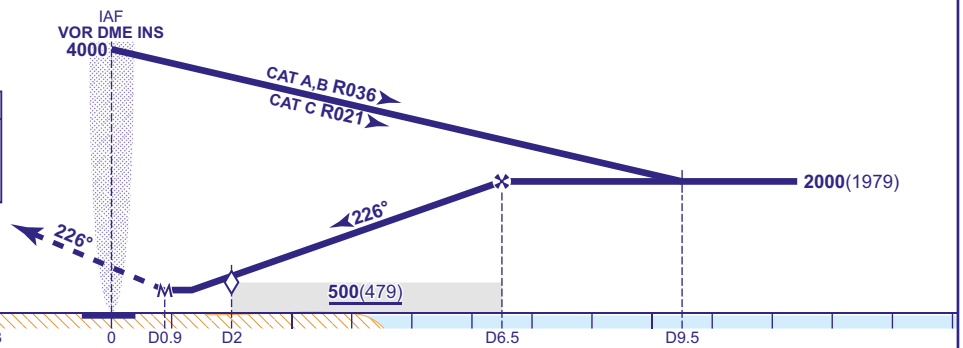


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME INS	5	4	3	2 (SDF)
ALT(HGT)	1500(1479)	1180(1159)	860(839)	540(519)

Arrival **not below MSA**. (See note 3).

MAPt INS DME 0.9
Climb straight ahead to **2000** then climbing turn right to **VOR INS** at **3000** to hold (see note 4) or as directed.



Aircraft Category		A	B	C
OCA (OCH)	Procedure	430(409)	430(409)	430(409)
VM(C)OCA (OCH AAL)	Total Area	720(689)	840(809)	1400(1369)
	North of RWY 05/23	490(459)	540(509)	1100(1069)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

NOTE 1 FAT offset 4° north of RWY 23 C/L.
2 Lowest altitude to commence procedure from hold is **3000**.
3 Subject to ATC approval, aircraft inbound to VOR/DME INS may descend to **3500** after passing INS DME 10 inbound.
4 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.
5 Direct arrivals see chart AD 2-EGPE-8-16.

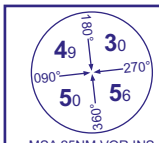
CHANGE (6/25): FREQUENCIES REVISED. OCA(OCH) CAT A/B/C, VM(C)OCA(OCH AAL) TOTAL AREA CAT A.

AERO INFO DATE 24 MAR 25

AD 2-EGPE-8-13

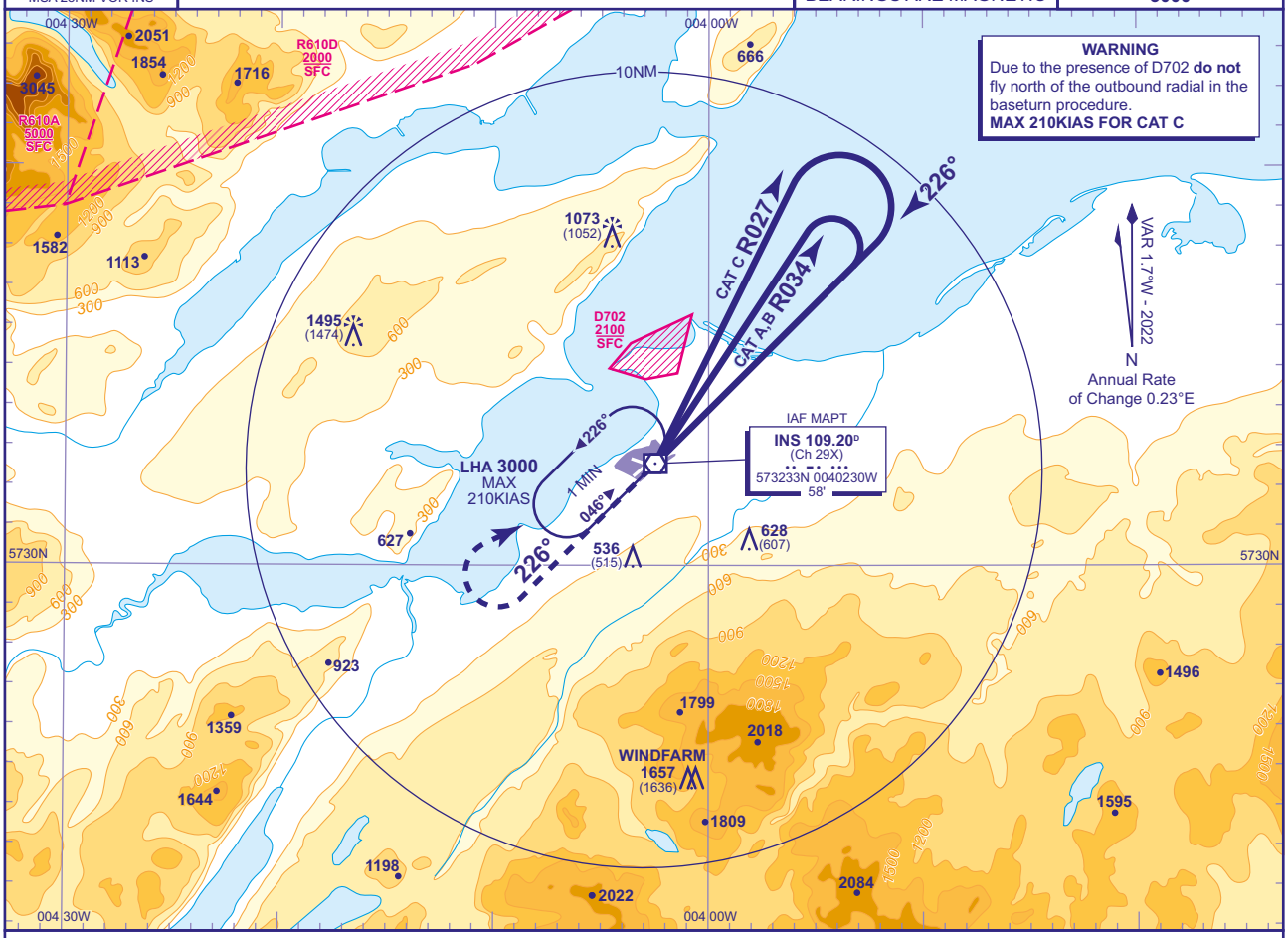
INSTRUMENT APPROACH CHART - ICAO

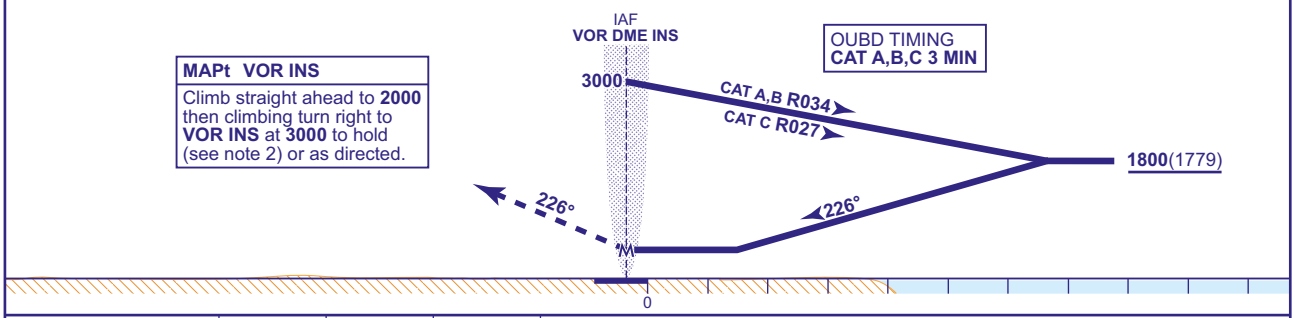
INVERNESS VOR RWY 23
(ACFT CAT A,B,C)



MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31	TRANSITION ALTITUDE 3000
RAD	122.605	INVERNESS RADAR	THR ELEVATION	21	
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION 1495 AMSL (1474) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		





MAPt VOR INS
Climb straight ahead to **2000** then climbing turn right to **VOR INS** at **3000** to hold (see note 2) or as directed.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**480**(459)	**480**(459)	**480**(459)
VM(C)OCA (OCH AAL)	Total Area	**720**(689)	**840**(809)	**1400**(1369)
	North of RWY 05/23	**490**(459)	**540**(509)	**1100**(1069)

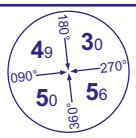
NOTE 1 FAT offset 4° north of RWY 23 C/L.
2 Pilots should take account of the climb performance of their aircraft to arrange their flight to reach INS VOR at **3000**.

CHANGE (6/25): FREQUENCIES REVISED. OCA(OCH) CAT A/B/C, VM(C)OCA(OCH AAL) TOTAL AREA CAT A.

AERO INFO DATE 24 MAR 25 AD 2-EGPE-8-14

INSTRUMENT APPROACH CHART - ICAO

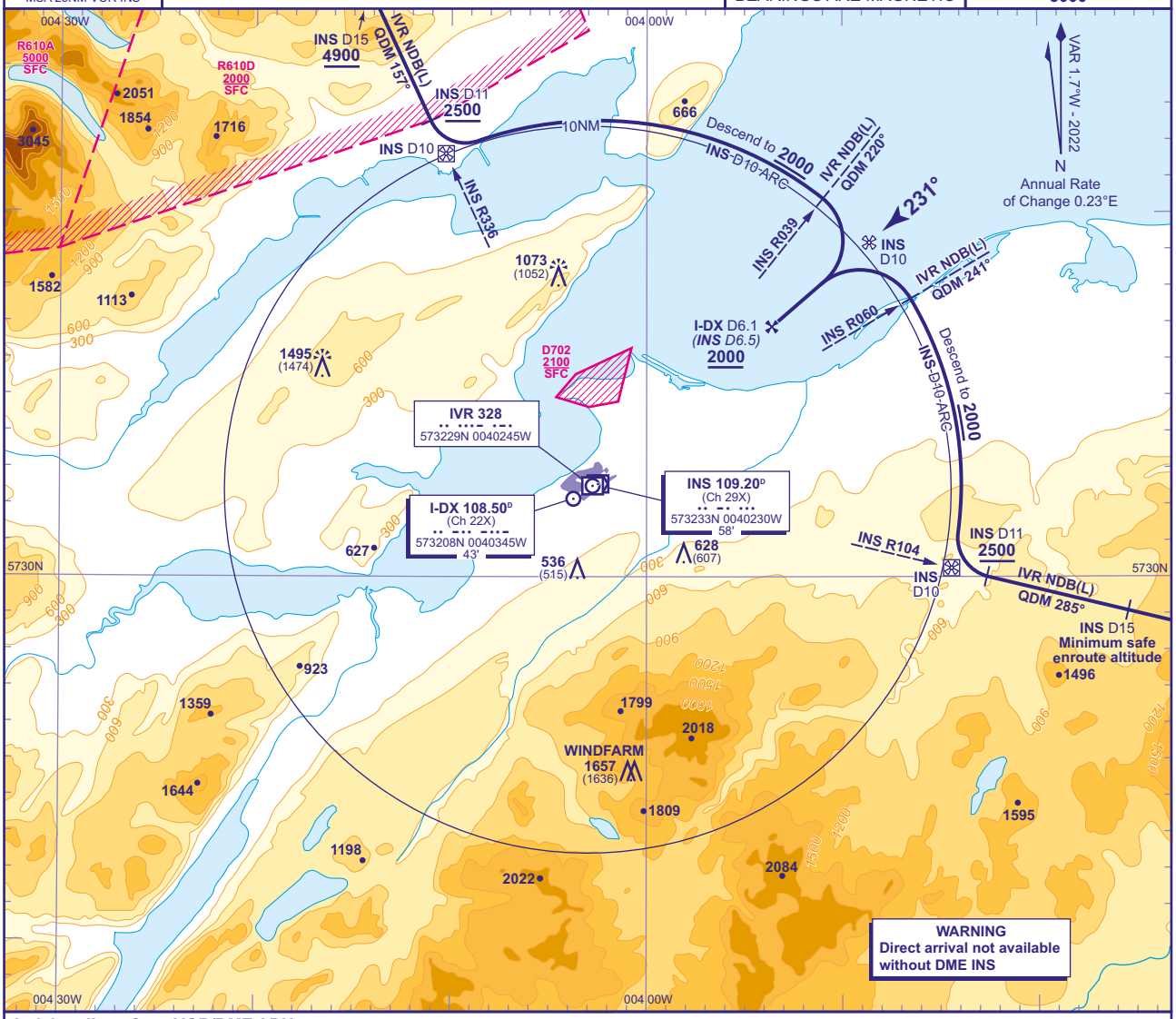
INVERNESS
Direct Arrivals
ILS/LOC/DME
RWY 23
(ACFT CAT A,B)



MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31
RAD	122.605	INVERNESS RADAR	THR ELEVATION	21
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION 1495 AMSL (1474) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 3000



Arriving direct from VOR/DME ADN
Arrival from VOR/DME ADN on VOR INS R104 (QDM 285°) **not below minimum safe enroute altitude**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 5600**, After passing INS DME 15 descend **not below 2500**. From INS DME 11 turn right to establish on INS DME 10 arc anticlockwise. When established, descend along the arc to **not below 2000**. From lead radial VOR INS R060 (IVR NDB(L) QDM 241°), turn left onto localizer. From FAF I-DX DME 6.1 (INS DME 6.5) at **2000**(1979), continue with ILS/LOC/DME final approach.

Arriving on N560 Southbound
Arrival on N560 **not below 5000**. Request ATC approval for DME arc arrival when within INS DME 40. When approved, after passing **BONBY** (INS DME 23) descend **not below 4900**. Establish on INS R336 (QDM 157°) from INS DME 15, descend **not below 2500**. From INS DME 11 turn left to establish on INS DME 10 arc clockwise. When established, descend along the arc **not below 2000**(1979). From lead VOR INS R039 (IVR NDB(L) QDM 220°) turn right onto localizer. From FAF I-DX DME 6.1 (INS DME 6.5) at **2000**(1979), continue with ILS/LOC/DME final approach.

CHANGE (6/25): FREQUENCIES REVISED.

AERO INFO DATE 24 MAR 25

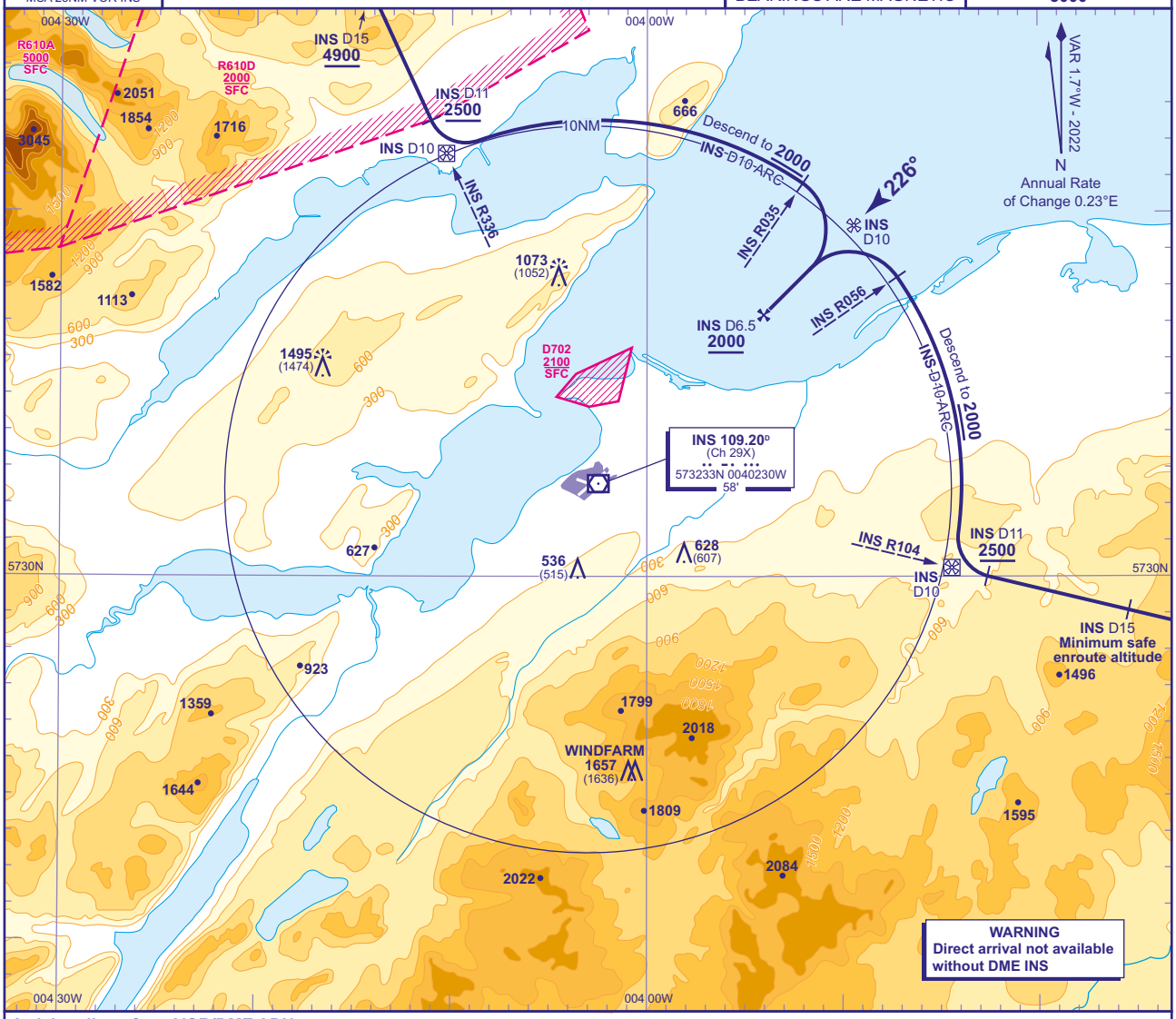
AD 2-EGPE-8-15

INSTRUMENT APPROACH CHART - ICAO

INVERNESS
Direct Arrivals
VOR/DME
RWY 23
(ACFT CAT A,B)

MSA 25NM VOR INS

TWR	118.405	INVERNESS TOWER	AD ELEVATION	31
RAD	122.605	INVERNESS RADAR	THR ELEVATION	21
ATIS	109.200	INVERNESS INFORMATION	OBSTACLE ELEVATION 1495 AMSL (1474) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 3000



Arriving direct from VOR/DME ADN
Arrival from VOR/DME ADN on VOR INS R104 (QDM 284°) **not below minimum safe enroute altitude**. Request ATC approval for DME arc arrival when within INS DME 40. After passing INS DME 25, with ATC approval, descend **not below 5600**. After passing INS DME 15 descend **not below 2500**. From INS DME 11 turn right to establish on INS DME 10 arc anticlockwise. When established, descend along the arc to **not below 2000**(1979). From lead radial VOR INS R056 turn left onto extended FAT. From FAF INS DME 6.5 at **2000**(1979), continue with VOR/DME final approach.

Arriving on N560 Southbound
Arrival on N560 **not below 5000**. Request ATC approval for DME arc arrival when within INS DME 40. When approved, after passing **BONBY** (INS DME 23) descend **not below 4900**. Establish on INS R336 (QDM 156°) from INS DME 15, descend **not below 2500**. From INS DME 11 turn left to establish on INS DME 10 arc clockwise. When established, descend along the arc **not below 2000**(1979). From lead radial VOR INS R035 turn right onto extended FAT. From FAF INS DME 6.5 at **2000**(1979), continue with VOR/DME final approach.

CHANGE (6/25): FREQUENCIES REVISED.

EGPI — ISLAY

EGPI AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPI — ISLAY

EGPI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 554100N Long: 0061535W Mid point of Runway 12/30
2	Direction and distance from city	4.5 NM NNW of Port Ellen.
3	Elevation / Reference temperature / Mean Low Temperature	56 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	183 FT
5	Magnetic Variation / Annual Change	2.35°W (2022) / 0.22°E
6	AD Administration Address Telephone	HIAL Islay Aerodrome, Isle of Islay, Argyll, PA42 7AS. 01496-302361
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPI AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0830-1840 (0730-1740); Sat 0830-1340 (0730-1240); Sun 1215-1655 (1115-1555).
2	Customs and immigration	Nil.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD Hours. See also AD 2.18.
8	Fuelling	By prior arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR.

EGPI AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	80, 100, W80, W100, W15, W50
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGPI AD 2.5 PASSENGER FACILITIES

1	Hotels	For details contact Tel: 01496-810254.
2	Restaurants	
3	Transportation	Buses, taxis, car hire.
4	Medical facilities	Limited first aid facilities available.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	Ambulift and passenger lift on/off facilities are available during the aerodromes published opening hours.

EGPI AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A3 RFF Category 4. RFF Category 5 by prior arrangement. RFF Category 5 may be accepted under RFF Category 4 remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	Out of hours recovery of aircraft - emergency contact details: 07876-727800.

EGPI AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical and chemical de-icing. Runways 12/30 and 07/25 de-iced/anti-iced with KFOR (Potassium Formate fluids) and/or NAAC (Sodium Acetate solids).
2	Clearance priorities	Runways, Taxiway, Aprons.
3	Remarks	For latest information contact 01496-302361.

EGPI AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt, Grooved
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	Main Apron 54 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPI AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	2 LGTD WDI: 554056.66N 0061512.31W, 554103.20N 0061553.62W.

EGPI AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPI5485) 25/APPROACH 07/ TAKE-OFF	UTILITY POLE	554118.82N 0061327.89W	277 FT	29 FT	No	
(EGPI2354) 25/APPROACH 07/ TAKE-OFF	BUILDING	554107.46N 0061445.42W	92 FT	18 FT	No	
(EGPI5552) 25/APPROACH 07/ TAKE-OFF	MOBILE OBST	554104.24N 0061453.78W	75 FT	12 FT	No	
(EGPI5499) 30/APPROACH 12/ TAKE-OFF	BUILDING	554044.45N 0061438.02W	81 FT	27 FT	No	
(EGPI5518) 30/APPROACH 12/ TAKE-OFF	TREE	554044.31N 0061451.65W	63 FT	19 FT	No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGPI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 Hours.
4	Trend forecast Interval of issuance	30 minutes.
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	Charts abbreviated plain language. TAF's/METAR's. English.
7	Charts and other information available for briefing or consultation	Metforms 214 and 215.
8	Supplementary equipment available for providing information	Telephone and email.
9	ATS units provided with information	ISLAY
10	Additional information (limitation of service, etc.)	During airport opening hours.

EGPI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
07	070.49°	635 x 18 M	RWY surface: Asphalt, Grooved PCN 14/F/D/Y/T	554056.87N 0061531.72W 183.2 FT	THR 33.3 FT	
25	250.50°	635 x 18 M	RWY surface: Asphalt, Grooved PCN 14/F/D/Y/T	554103.09N 0061500.63W 183.1 FT	THR 54.3 FT	
12	120.87°	1550 x 30 M	RWY surface: Asphalt, Grooved PCN 18/F/D/Y/T	554110.83N 0061605.99W 183.2 FT	THR 22.8 FT	
30	300.88°	1550 x 30 M	RWY surface: Asphalt, Grooved PCN 18/F/D/Y/T	554049.83N 0061503.83W 183.1 FT	THR 39.0 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
		695 x 60 M				RWY 07
		695 x 60 M				RWY 25 Threshold displaced by 58 M.
	141 x 150 M					RWY 12 Threshold displaced by 143 M. Strip Dimensions 1386 x 280 M.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	143 x 150 M					RWY 30 Threshold displaced by 141 M. Strip Dimensions 1386 x 150 M.

EGPI AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
12	1409 M	1550 M	1409 M	1266 M	
30	1407 M	1550 M	1407 M	1266 M	
07	635 M	635 M	635 M	635 M	
25	635 M	635 M	635 M	577 M	

EGPI AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07		Green wingbars				HI bi-directional, LI omni-directional			
25		Green wingbars				HI bi-directional, LI omni-directional			
12	Abbreviated centre-line with one crossbar. Light intensity high	Green wingbars	PAPI Left/3°			HI bi-directional, LI omni-directional	Red		
30		Green wingbars	PAPI Left/4°			HI bi-directional, LI omni-directional	Red		

EGPI AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: RWY 12: 554106.76N 0061605.29W (LGTD), RWY 30: 554053.53N 0061502.31W (LGTD)
3	TWY edge and centre line lighting	EDGE: Blue taxiway edge lights from Runway 12/30 via Runway 07/25 to apron.
4	Secondary power supply/switch-over time	
5	Remarks	

EGPI AD 2.16 HELICOPTER LANDING AREA

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EGPI AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ISLAY ATZ A circle, 2 NM radius, centred at 554100N 0061535W on longest notified runway (12/ 30)	Upper limit: 2000 FT AGL Lower limit: SFC	G	ISLAY INFORMATION English	3000 FT		

EGPI AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	ISLAY INFORMATION	123.155 DOC 25 NM/4,000 FT.			Mon-Fri 0830-1840 (0730-1740); Sat 0830-1340 (0730-1240); Sun 1215-1655 (1115-1555).	ATZ hours coincident with AFIS hours.
OTHER	ISLAY FIRE CHIEF	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPI AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	ISY	36Y 109.950 MHz	Mon-Fri 0830-1840 (0730-1740); Sat 0830-1340 (0730-1240); Sun 1215-1655 (1115-1555).	554058.68N 0061457.89W	70 FT	Zero range at DME site. Co-located with NDB. Due to terrain effects the DME may unlock in the sector from 005 to 078 MAG.
NDB 1.35°W (2027)	LAY	395.000 kHz	Mon-Fri 0830-1840 (0730-1740); Sat 0830-1340 (0730-1240); Sun 1215-1655 (1115-1555).	554058.31N 0061458.13W		On AD. Range 20 NM. Co-located with DME.

EGPI AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome is not available to aircraft unable to communicate by radio.
b) Use of Islay aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.

2 GROUND MOVEMENT

a) Do not taxi or park aircraft on grassed areas adjacent to the Runways unless marshalled by Airport Staff.
b) Link taxiway between Runway 12/30 and 07/25 closed to all aircraft.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) No ground signals.
b) Large flocks of geese are prevalent in the vicinity of the aerodrome between the months of October and March.
c) Uncontrolled public road 700 M from start of TORA Runway 07.
d) Grass areas are soft and unsafe. Poor load bearing characteristics may be found on the runway/taxiway strips and the area adjacent to the apron. Only marked taxiway to be used.
e) Mobile obstructions in undershoot Runway 12, farm track east of Runway 30 threshold and uncontrolled public track northeast of Runway 12/30 (outside Islay AD boundary).
f) Occasional kite flying takes place in Runway 12 undershoot especially outside aerodrome hours.
g) HT cables on high ground rising to 358 FT AMSL at 1.5 NM east from ARP.
h) Hill rising to 1612 FT AMSL to the east.
i) Hill rising to 663 FT AMSL at 6.1 NM south from ARP.
j) Hill rising to 761 FT AMSL at 6.9 NM northwest from ARP.
k) Bird activity high on Runway 25 approach all year round with birds venturing down onto the Aerodrome on occasions.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Runway departure restriction for aircraft requiring the use of a licensed aerodrome

   i. Runways 07/25 and 12/30. Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 800 M or less are not permitted.

b) Runway 07/25: Remain within the painted runway side stripes.

7 TRAINING

Not applicable

EGPI AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGPI AD 2.22 FLIGHT PROCEDURES

1 RADIO CALLS

a) Pilots should call 'Islay Information' when within 25 NM radius of the aerodrome and below 4000 FT AAL.

2 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGPI AD 2.23 ADDITIONAL INFORMATION

a) Aircraft operators are responsible for the searching of any aircraft parked either overnight or within the demarcated area prior to departure.

EGPI AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPI-2-1
INSTRUMENT APPROACH CHART RNP RWY 12 (CAT A,B,C) - ICAO
AD 2.EGPI-8-1
INSTRUMENT APPROACH CHART RNP RWY 30 (CAT A,B,C) - ICAO
AD 2.EGPI-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 12
AD 2.EGPI-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 30
AD 2.EGPI-8-4

EGPI AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

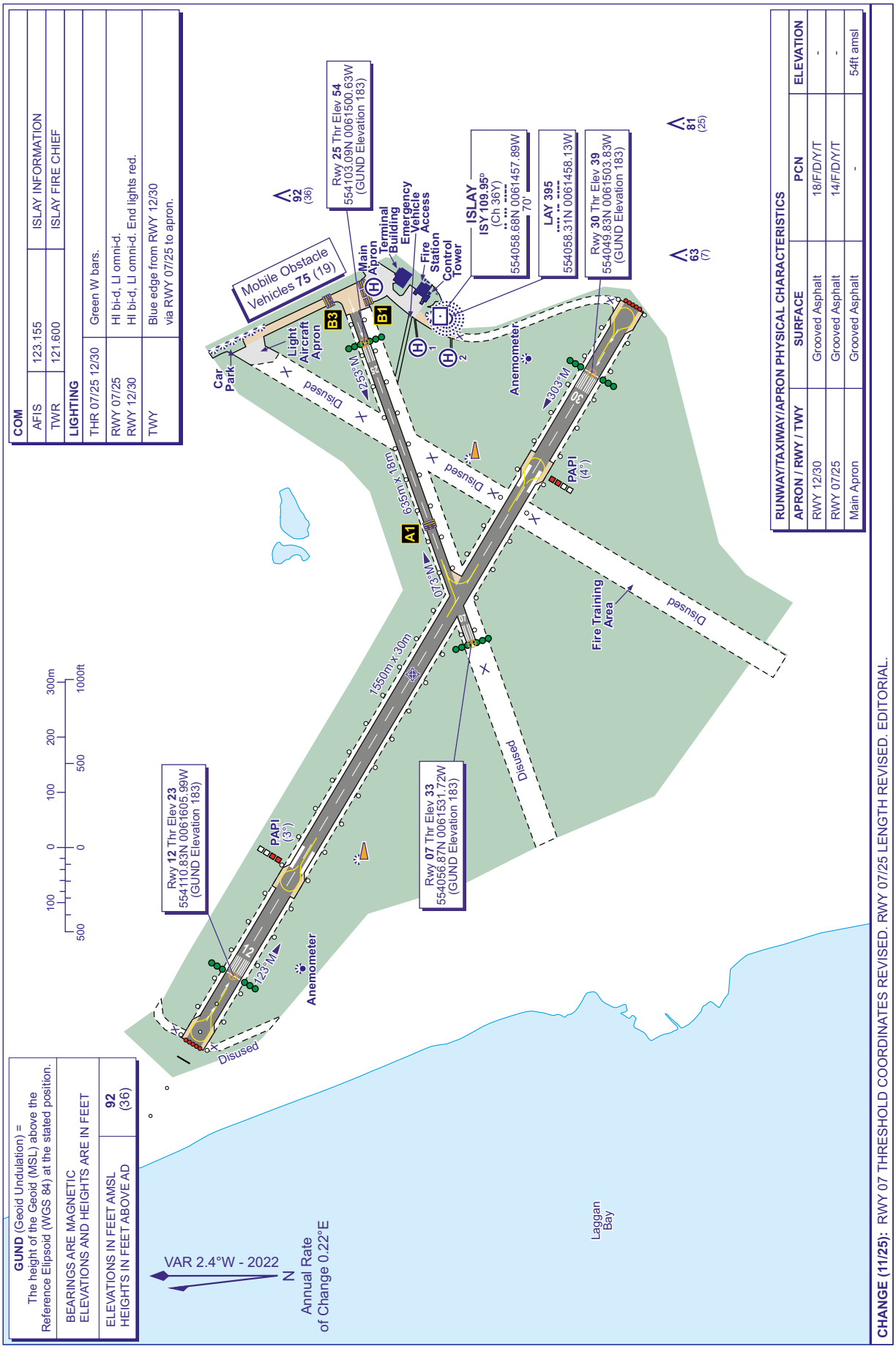
Not applicable

ISLAY
EGPI

AERODROME CHART - ICAO

ARP 554100N 0061535W

AD ELEV 56FT



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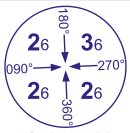
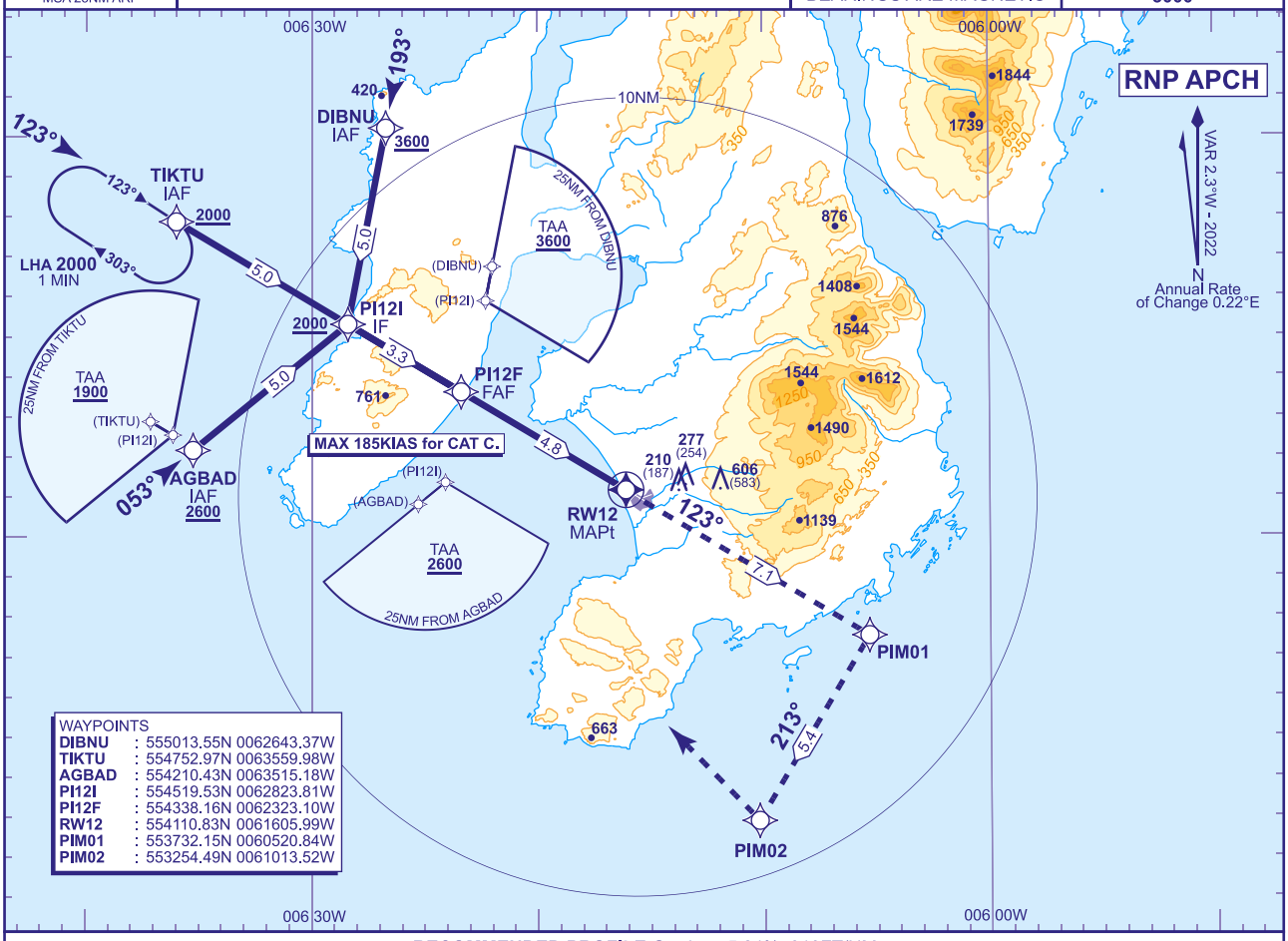
INSTRUMENT APPROACH CHART - ICAO

ISLAY
RNP
RWY 12
(ACFT CAT A,B,C)



AFIS 123.155	ISLAY INFORMATION	AD ELEVATION 56
		THR ELEVATION 23
		OBSTACLE ELEVATION **606 AMSL** (583)(ABOVE THR)
		BEARINGS ARE MAGNETIC

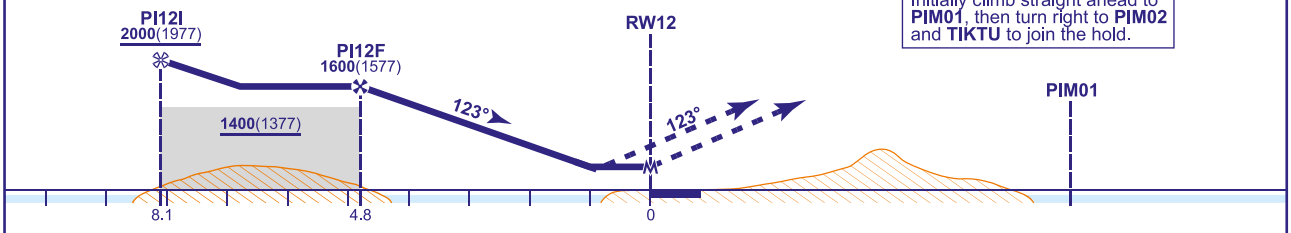
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

NM to RW12	4	3	2	1
ALT(HGT)	**1350**(1327)	**1030**(1007)	**710**(687)	**390**(367)

TCH 50



MAPt (LNAV): RW12
Continuous climb to **2000**. Initially climb straight ahead to **PIM01**, then turn right to **PIM02** and **TIKTU** to join the hold.

Aircraft Category			A	B	C
OCA (OCH)	LNAV	2.5%	**730**(707)	**730**(707)	**730**(707)
		4.5%	**380**(357)	**380**(357)	**380**(357)
VM(C)OCA (OCH AAL)	Total Area		**770**(714)	**1040**(984)	**1830**(1774)
	150°M clockwise to 035°M		**770**(714)	**770**(714)	**940**(884)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

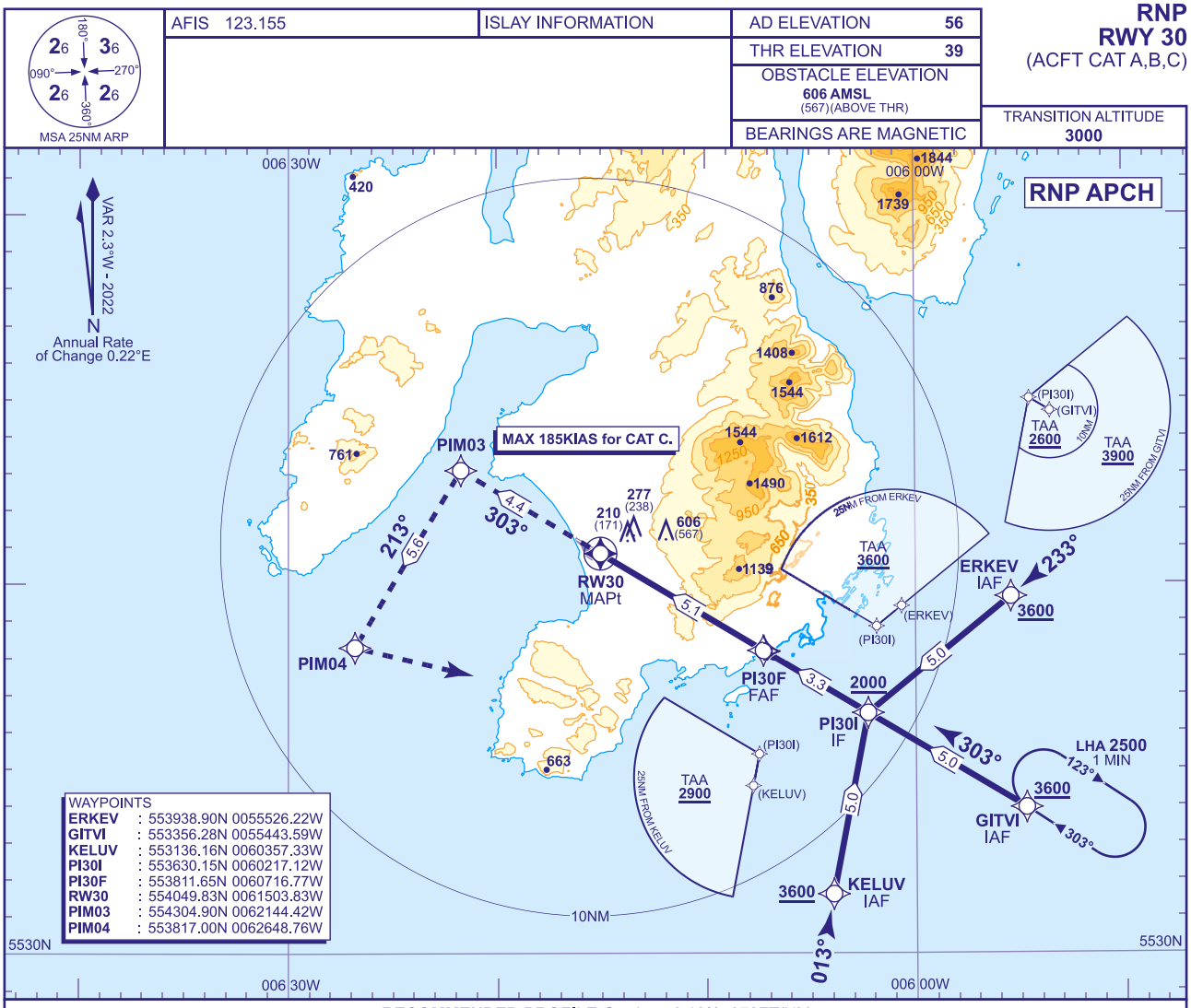
NOTE 1 Use of this procedure is strictly PPR from the aerodrome operator.
2 Prior to commencing the procedure, pilots are to broadcast on AFIS 123.155 with flight details and intentions.

CHANGE (2/25): SPECIFICATION CHANGE.

AERO INFO DATE 26 NOV 24

INSTRUMENT APPROACH CHART - ICAO

ISLAY
RNP
RWY 30
(ACFT CAT A,B,C)

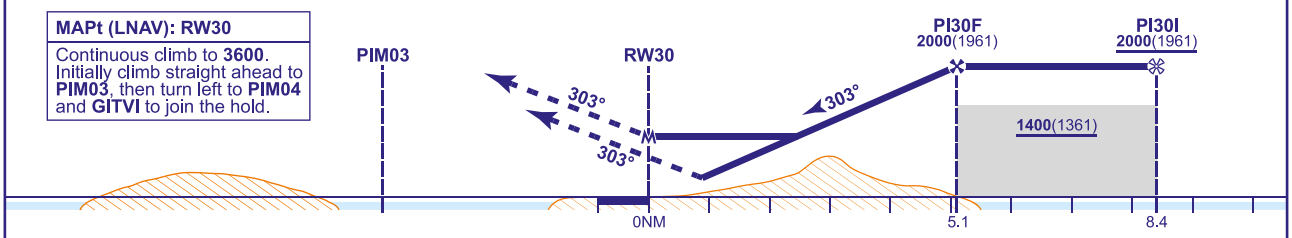


RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW30	5	4	3	2	1
ALT(HGT)	**1950**(1911)	**1580**(1541)	**1200**(1161)	**830**(791)	**460**(421)

TCH 50

MAPt (LNAV): RW30
Continuous climb to **3600**. Initially climb straight ahead to **PIM03**, then turn left to **PIM04** and **GITVI** to join the hold.



Aircraft Category		A	B	C
OCA (OCH)	LNAV	**1000**(961)	**1000**(961)	**1000**(961)
VM(C)OCA (OCH AAL)	Total Area	**1020**(964)	**1040**(984)	**1830**(1774)
	150°M clockwise to 035°M	**1020**(964)	**1020**(964)	**1020**(964)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE
1 Use of this procedure is strictly PPR from the aerodrome operator.
2 Prior to commencing the procedure, pilots are to broadcast on AFIS 123.155 with flight details and intentions.
3 ATC will normally require aircraft to hold not lower than **3600**.

CHANGE (2/25): SPECIFICATION CHANGE.

AERO INFO DATE 13 DEC 24
AD 2-EGPI-8-2

Instrument Approach Procedure Coding Tables

ISLAY RNP RWY 12 - Instrument Approach Procedure via AGBAD

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12R	001	IF	AGBAD	N	-	-	2600	-185	554210.43N 0063515.18W	IAF
R12R	002	TF	PI12I	N	053° (050.8°)	RIGHT	2000	-185	554519.53N 0062823.81W	IF / 8.1NM
R12R	003	TF	PI12F	N	123° (120.8°)	-	1600	-185	554338.16N 0062323.10W	FAF / 4.8NM
R12R	004	TF	RW12	Y	123° (120.8°)	-	-	-	554110.83N 0061605.99W	MAPt
R12R	005	CF	PIM01	N	123° (120.9°)	RIGHT	-	-185	553732.15N 0060520.84W	-
R12R	006	TF	PIM02	N	213° (210.9°)	RIGHT	-	-185	553254.49N 0061013.52W	-
R12R	007	TF	TIKTU	Y	318° (316.0°)	-	2000	-185	554752.97N 0063559.98W	HOLD

ISLAY RNP RWY 12 - Instrument Approach Procedure via TIKTU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12C	001	IF	TIKTU	N	-	-	2000	-185	554752.97N 0063559.98W	IAF
R12C	002	TF	PI12I	N	123° (120.8°)	-	2000	-185	554519.53N 0062823.81W	IF / 8.1NM
R12C	003	TF	PI12F	N	123° (120.8°)	-	1600	-185	554338.16N 0062323.10W	FAF / 4.8NM
R12C	004	TF	RW12	Y	123° (120.8°)	-	-	-	554110.83N 0061605.99W	MAPt
R12C	005	CF	PIM01	N	123° (120.9°)	RIGHT	-	-185	553732.15N 0060520.84W	-
R12C	006	TF	PIM02	N	213° (210.9°)	RIGHT	-	-185	553254.49N 0061013.52W	-
R12C	007	TF	TIKTU	Y	318° (316.0°)	-	2000	-185	554752.97N 0063559.98W	HOLD

ISLAY RNP RWY 12 - Instrument Approach Procedure via DIBNU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12L	001	IF	DIBNU	N	-	-	3600	-185	555013.55N 0062643.37W	IAF
R12L	002	TF	PI12I	N	193° (190.9°)	LEFT	2000	-185	554519.53N 0062823.81W	IF / 8.1NM
R12L	003	TF	PI12F	N	123° (120.8°)	-	1600	-185	554338.16N 0062323.10W	FAF / 4.8NM
R12L	004	TF	RW12	Y	123° (120.8°)	-	-	-	554110.83N 0061605.99W	MAPt
R12L	005	CF	PIM01	N	123° (120.9°)	RIGHT	-	-185	553732.15N 0060520.84W	-
R12L	006	TF	PIM02	N	213° (210.9°)	RIGHT	-	-185	553254.49N 0061013.52W	-
R12L	007	TF	TIKTU	Y	318° (316.0°)	-	2000	-185	554752.97N 0063559.98W	HOLD

CHANGE (2/25): NEW SPECIFICATION.
AERO INFO DATE 03 DEC 24

Instrument Approach Procedure Coding Tables

ISLAY RNP RWY 30 - Instrument Approach Procedure via ERKEV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30R	001	IF	ERKEV	N	-	-	3600	-185	553938.90N 0055526.22W	IAF
R30R	002	TF	PI30I	N	233° (231.0°)	RIGHT	2000	-185	553630.15N 0060217.12W	IF / 8.44NM
R30R	003	TF	PI30F	N	303° (300.9°)	-	2000	-185	553811.65N 0060716.77W	FAF / 5.14NM
R30R	004	TF	RW30	Y	303° (301.0°)	-	-	-	554049.83N 0061503.83W	MAPt
R30R	005	CF	PIM03	N	303° (300.9°)	LEFT	-	-185	554304.90N 0062144.42W	-
R30R	006	TF	PIM04	N	213° (210.9°)	LEFT	-	-185	553817.00N 0062648.76W	-
R30R	007	TF	GITVI	Y	106° (103.2°)	-	3600	-185	553356.28N 0055443.59W	HOLD

ISLAY RNP RWY 30 - Instrument Approach Procedure via GITVI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30C	001	IF	GITVI	N	-	-	3600	-185	553356.28N 0055443.59W	IAF
R30C	002	TF	PI30I	N	303° (301.0°)	-	2000	-185	553630.15N 0060217.12W	IF / 8.44NM
R30C	003	TF	PI30F	N	303° (300.9°)	-	2000	-185	553811.65N 0060716.77W	FAF / 5.14NM
R30C	004	TF	RW30	Y	303° (301.0°)	-	-	-	554049.83N 0061503.83W	MAPt
R30C	005	CF	PIM03	N	303° (300.9°)	LEFT	-	-185	554304.90N 0062144.42W	-
R30C	006	TF	PIM04	N	213° (210.9°)	LEFT	-	-185	553817.00N 0062648.76W	-
R30C	007	TF	GITVI	Y	106° (103.2°)	-	3600	-185	553356.28N 0055443.59W	HOLD

ISLAY RNP RWY 30 - Instrument Approach Procedure via KELUV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30L	001	IF	KELUV	N	-	-	3600	-185	553136.16N 0060357.33W	IAF
R30L	002	TF	PI30I	N	013° (010.9°)	LEFT	2000	-185	553630.15N 0060217.12W	IF / 8.44NM
R30L	003	TF	PI30F	N	303° (300.9°)	-	2000	-185	553811.65N 0060716.77W	FAF / 5.14NM
R30L	004	TF	RW30	Y	303° (301.0°)	-	-	-	554049.83N 0061503.83W	MAPt
R30L	005	CF	PIM03	N	303° (300.9°)	LEFT	-	-185	554304.90N 0062144.42W	-
R30L	006	TF	PIM04	N	213° (210.9°)	LEFT	-	-185	553817.00N 0062648.76W	-
R30L	007	TF	GITVI	Y	106° (103.2°)	-	3600	-185	553356.28N 0055443.59W	HOLD

CHANGE (2/25): CHART SPECIFICATION.
AERO INFO DATE 03 DEC 24

EGNS — ISLE OF MAN

EGNS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNS — ISLE OF MAN

EGNS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 540500N Long: 0043724W Centre of Runway 08/26.
2	Direction and distance from city	6 NM SW of Douglas.
3	Elevation / Reference temperature / Mean Low Temperature	53 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	180 FT
5	Magnetic Variation / Annual Change	1.42°W (2022) / 0.21°E
6	AD Administration Address Telephone Telefax AFS	THE ISLE OF MAN DEP OF INFRASTRUCTURE AIRPORTS DIVISION Isle of Man Airport, Ballasalla, Isle of Man IM9 2AS. 01624-821600 (Airport Administration) 01624-827546 (ATC) 01624-821641 (MET Office). 01624-648110 (Customs and Immigration). 01624-821611 (Airport Authority) 01624-821646 (MET Office) 01624-821722 (ATC) 01624-661650 (Customs and Immigration) EGNSYDYX
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGNS AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 0615-2045 (0515-1945); Sun 0700-2045 (0600-1945); and by arrangement.
2	Customs and immigration	As AD hours. Prior notice required by 1600 (1500) on previous day.
3	Health and sanitation	As ATS hours.
4	AIS Briefing Office	Flight Plans can be telephoned to 01624-827548
5	ATS Reporting Office (ARO)	None
6	MET Briefing Office	As ATS hours.
7	ATS	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945). See also AD 2.18.
8	Fuelling	0630-2030 (0530-1930).
9	Handling	As ATS hours.
10	Security	H24
11	De-icing	Limited, on request from Handling Agents.
12	Remarks	Hours subject to seasonal and operational extensions - promulgated by NOTAM.

EGNS AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Limited. Contact Airport Administration.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80, W100.
3	Fuelling facilities/capacity	Mobile AVGAS 4500 lts. Mobile AVTUR 18, 300 lts. No anti-icing agent available.
4	De-icing facilities	Limited, on request from Handling Agents.
5	Hangar space for visiting aircraft	None
6	Repair facilities for visiting aircraft	Limited.

7	Remarks	Refuelling facilities available during published hours of opening from Avflight Ltd, Tel: 01624-827928. Handling is mandatory for all arriving aircraft. Arrangements should be confirmed in advance with one of the following handling agents: Menzies Aviation Ltd, Tel: 01624-825780; Fax: 01624-825822; Frequency: 129.750 MHz. Manx Jet Centre, Tel: 01624-825100; Email: operations@manxjetcentre.com. 3 Legs Aviation Services Ltd, Tel: 07555-135443; Email: info@3legsaviationservices.com. Information on charges may be obtained from each nominated handling agent.

EGNS AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel information via www.visitisleofman.com.
2	Restaurants	Buffet and bar at Airport.
3	Transportation	Buses, taxis and car hire.
4	Medical facilities	Limited first aid treatment. Hospital at Douglas, 6 NM.
5	Bank and Post Office	Cash dispenser and Postal collection at airport.
6	Tourist Office	Isle of Man Tourist Information Centre.
7	Remarks	

EGNS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 7 available with 48 hours prior notice. Operational hours as AD hours. Outside these times and by arrangement, reduced RFF category may be provided for specific flights.
2	Rescue equipment	To ICAO Standards.
3	Capability for removal of disabled aircraft	Limited.
4	Remarks	

EGNS AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	2 Snow ploughs, 2 de-icing rigs.
2	Clearance priorities	As determined by aerodrome authority.
3	Remarks	Latest SNOWTAM information from ATC, GRF data available from ATC. Tel: 01624-827546

EGNS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt PCN 32/F/A/X/U
2	Taxiway width, surface and strength	Taxiway A (A2 TO 21): 18 M Surface: Asphalt PCR 495/F/D/W/T Taxiway A (A2 TO 26): 18 M Surface: Asphalt PCR 500/F/D/W/T Taxiway B APRON TO 08: 18 M Surface: Asphalt PCR 357/F/D/W/T

		Taxiway C APRON TO 08/26: 27 M Surface: Asphalt PCR 500/F/D/W/T Taxiway D (26 TO 03): 11 M Surface: Asphalt PCR 340/F/D/W/T Taxiway E APRON TO 21: 18 M Surface: Asphalt PCR 340/F/D/W/T Taxiway F APRON TO 08/26: 27 M Surface: Asphalt PCR 500/F/D/W/T Taxiway J (08 TO 03): 18 M Surface: Asphalt PCR 340/F/D/W/T Taxiway K: 18 M Surface: Asphalt PCR 327/F/D/W/T Taxiway L (08 TO L4): 18 M Surface: Asphalt PCR 500/F/D/W/T Taxiway L (L4 TO 21): 18 M Surface: Asphalt PCR 495/F/D/W/T
3	Altimeter checkpoint location and elevation	Apron 58 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart
6	Remarks	

EGNS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	All stands are marked nose-in/push-back except Stand 3. All stands with the exception of Stands 7 and 8 have numbered identification boards at the head of the stand.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 03/21: EASA markings. Runway designation, threshold, aiming point, touch down point, centre-line, edge line, displaced threshold on Runway 03. 08/26: CAP 168 markings. Runway designation, threshold, aiming point, touch down point, centre-line, edge line on 08/26, displaced thresholds on Runways 08, 26. Touch Down Zone on Runway 26 and 08 are non standard - Runway 08 last two pairs omitted, Runway 26 last pair omitted. Taxiway marking aid(s): Centre-line marking and lighting on Taxiways A, B, C, E, F, J, K and L. Taxiway light(s): Taxiways A, B, C, E, F, J, K and L have green centre-line lighting with blue edge lighting at bends and runway turn-offs, illuminated or reflective signs and stop-bars.
3	Stop bars and runway guard lights (if any)	Stop bars associated with all runway holding points for 03/21 and 08/26, supplemented by blocking stop bars either side of the main runway intersection. Stop bars in use during all operational hours.
4	Other runway protection measures	
5	Remarks	Wind Direction Indicators: (W) 540451.39N 0043754.02W (LGTD); (E) 540505.88N 0043710.70W (LGTD).

EGNS AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNS1178) 21/APPROACH 03/ TAKE-OFF	TREES	540616.76N 0043626.90W	256 FT	75 FT	No	
(EGNS1159) 21/APPROACH 03/ TAKE-OFF	OBSTRUCTION LIGHT	540540.67N 0043701.34W	152 FT	5 FT	Yes Red	
(EGNS1088) 08/APPROACH 26/ TAKE-OFF	HOUSE AERIAL	540456.49N 0043827.26W	82 FT	38 FT	No	
(EGNS1103) 08/APPROACH 26/ TAKE-OFF	OBSTRUCTION LIGHT	540448.24N 0043821.30W	80 FT	44 FT	Yes Red	
(EGNS1058) 08/APPROACH 26/ TAKE-OFF	TREES	540446.60N 0043836.92W	87 FT	53 FT	No	
(EGNS1005) 08/APPROACH 26/ TAKE-OFF	DVOR L C	540401.09N 0044548.58W	573 FT	33 FT	No	
(EGNS1008) 08/APPROACH 26/ TAKE-OFF	AERIAL	540359.15N 0044544.07W	569 FT	46 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNS1035)	GROUND LEVEL	540858.13N 0044009.49W	1587 FT	0 FT	No	
(EGNS1198)	GROUND LEVEL	540852.94N 0043413.17W	732 FT	0 FT	No	
(EGNS1209)	MAST	540826.20N 0042934.92W	750 FT	260 FT	Yes Red	
(EGNS1298)	TREES	540817.30N 0043410.58W	527 FT	46 FT	No	
(EGNS1017)	GROUND LEVEL	540813.56N 0044310.07W	1461 FT	9 FT	No	
(EGNS1283)	HOUSE APEX	540605.92N 0043706.45W	197 FT	26 FT	No	
(EGNS1172)	SENSOR A1R2	540512.30N 0043639.04W	47 FT	3 FT	No	
(EGNS1254)	SIGN	540510.49N 0043733.19W	51 FT	3 FT	No	
(EGNS1151)	ANTENNA S5	540452.96N 0043710.12W	56 FT	34 FT	No	
(EGNS1152)	RADAR	540452.80N 0043710.09W	74 FT	53 FT	Yes Red	
(EGNS1127)	WINDSOCK	540451.39N 0043754.02W	50 FT	25 FT	Yes Red	
(EGNS1120)	FLAGPOLE	540444.42N 0043806.08W	149 FT	117 FT	Yes Red	

EGNS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	ISLE OF MAN OFFICE
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	ISLE OF MAN OFFICE 9 hours.
4	Trend forecast Interval of issuance	TREND 30 minutes.
5	Briefing/consultation provided	Forecaster available H24.

6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Low Level Weather and Spot Wind Charts for British Isles and near Continent. MET Satellite and Weather Radar images and sequences.
8	Supplementary equipment available for providing information	Cloud satellite receiver.
9	ATS units provided with information	ISLE OF MAN
10	Additional information (limitation of service, etc.)	METARs issued half hourly during aerodrome operating hours but hourly when the aerodrome is closed.

EGNS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
03	027.96°	1199 x 46 M	RWY surface: Asphalt PCR 548/F/D/W/T	540442.70N 0043751.73W 180.5 FT	THR 23.8 FT	
21	207.97°	1199 x 46 M	RWY surface: Asphalt PCR 548/F/D/W/T	540514.26N 0043723.23W 180.5 FT	THR 52.8 FT	
08	077.94°	2110 x 46 M	RWY surface: Asphalt PCR 554/F/D/W/T	540454.97N 0043804.49W 180.5 FT	THR 30.1 FT TDZ 32.6 FT	
26	257.96°	2110 x 46 M	RWY surface: Asphalt PCR 554/F/D/W/T	540505.25N 0043642.55W 180.4 FT	THR 33.4 FT TDZ 33.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1225 x 140 M	120 x 140 M -			RWY 03 Threshold displaced by 95 M.
	94 x 150 M	1225 x 140 M	120 x 140 M -			RWY 21
	938 x 150 M	1796 x 280 M	240 x 150 M -			RWY 08 Threshold displaced by 291 M.
	148 x 150 M	1796 x 280 M	240 x 150 M -			RWY 26 Threshold displaced by 296 M.

EGNS AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	1877 M	2815 M	1877 M	1586 M	
26	1909 M	2057 M	1909 M	1613 M	
08	1496 M	2243 M	1496 M		Take-off from intersection of Taxiway Bravo
26	1469 M	1617 M	1469 M		Take-off from intersection of Taxiway Kilo
03	1199 M	1199 M	1199 M	1105 M	
21	1105 M	1199 M	1105 M	1105 M	

EGNS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03		Green Light intensity high With green wingbars	PAPI Left/3° 42 FT 250 M			HI bi-directional with LI omni-directional component 60 M spacing White	Red Light intensity high		
21	Centre-line with one crossbar with HI uni-directional component co-located with LI red omni-directional component. 427 M Light intensity high	Green Light intensity high With green wingbars	PAPI Right/ 3.5° 42 FT 250 M High ground to the left of approach to Runway 21. Pilots should establish on runway centre-line before descending on the PAPI signal.			HI bi-directional with LI omni-directional component 60 M spacing White	Red Light intensity high		
08	Coded centre-line with four crossbars. 700 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3.5° 54 FT 265 M		Coded centre-line 30 M spacing Light intensity high	HI bi-directional with LI omni-directional component 60 M spacing White	Red Light intensity high		EDGE: Yellow caution zone lights.
26	Coded centre-line with three crossbars. 360 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3° 45 FT 340 M		Coded centre-line 30 M spacing Light intensity high	HI bi-directional with LI omni-directional component 60 M spacing White	Red Light intensity high		EDGE: Yellow caution zone lights.

EGNS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 540507.25N 0043754.29W (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes. 8 seconds in power failure, 1 second in Low Visibility Operations.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGNS AD 2.16 HELICOPTER LANDING AREA

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EGNS AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ISLE OF MAN CTR 541417N 0042643W - 541056N 0045159W thence anti-clockwise by the arc of a circle radius 8.5 NM centred on 540240N 0044845W to 540304N 0050309W - 540139N 0050641W - 535411N 0044824W - 535743N 0042028W thence anti-clockwise by the arc of a circle radius 8.5 NM centred on 540600N 0042335W to 540233N 0041024W - 541306N 0041540W thence anti-clockwise by the arc of a circle radius 8.5 NM centred on 540600N 0042335W to 541417N 0042643W	Upper limit: FL105 Lower limit: SFC	D	RONALDSWAY APPROACH English	3000 FT		
ISLE OF MAN ATZ A circle, 2 NM radius, centred at 540500N 0043726W on longest notified runway (08/ 26)	Upper limit: 2000 FT AGL Lower limit: SFC	D	RONALDSWAY APPROACH English	3000 FT		

EGNS AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	RONALDSWAY APPROACH	135.905 Also CTR channel. DOC 50 NM/ 16,000 FT.			Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	ATZ hours coincident with Approach hours. In the event of failure of remote transmitters/receivers, coverage to the north of the airfield may be degraded and ATC services reduced accordingly.
TWR	RONALDSWAY TOWER	119.005 DOC 25 NM/8,000 FT.			Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	
RADAR	RONALDSWAY RADAR	120.855 As directed by ATC. DOC 50 NM/ 16,000 FT.			Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945).	In the event of failure of remote transmitters/receivers, coverage to the north of the airfield may be degraded and ATC services reduced accordingly.
		125.305 As directed by ATC. DOC 25 NM/ 10,000 FT.			Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945).	
		135.905 DOC 50 NM/ 16,000 FT.			Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945).	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
ATIS	RONALDSWAY INFORMATION	123.880 DOC 60 NM/ 20,000 FT.			Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945).	
OTHER	RONALDSWAY FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	ISLE OF MAN EMERGENCY	121.500 Emergency Frequency			O/R	

EGNS AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.49°W (2027)	IRH	111.150 MHz	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540457.61N 0043711.84W		(RWY 08) Off-set 3.75° from Runway centre-line. 120 M south of Runway 08/26 centre-line and 953 M from Runway 08 THR. Normally radiates H24 when selected.
ILS/GP	IRH	331.550 MHz	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540453.42N 0043747.84W		3.5° ILS Ref Datum Hgt 53 FT. Normally radiates H24 when selected.
ILS/LOC I 0.50°W (2027)	IRY	111.150 MHz	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540452.22N 0043826.45W		(RWY 26) 1931 M from THR 26. Normally radiates H24 when selected.
ILS/GP	IRY	331.550 MHz	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540459.64N 0043659.31W		3° ILS Ref Datum Hgt 53 FT. Normally radiates H24 when selected.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 0.54°W (2027) 0.8°W (2022)	IOM	59X 112.200 MHz	H24 Hours of operation for aerodrome purposes: Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540401.12N 0044548.50W	567 FT	APCH Aid to Isle of Man. VOR DOC: 60 NM/50,000 FT (75 NM/50,000 FT in Sector R271-211). DME DOC: 60 NM/50,000 FT (160 NM/18,000 FT in Sector R271-091 and 130 NM/18,000 FT in Sector R091-211) (160 NM/18,000-50,000 FT in Sector R271-076 and 100 NM/18,000-50,000 FT in Sector R076-211).
DME	IRY	48Y 111.150 MHz	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540451.62N 0043722.10W	38 FT	(RWY 26) DME freq paired with ILS I-RH and I-RY. Zero range is indicated at THR of Runway 08 and 26.
DME	IRH	48Y 111.150 MHz	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540451.62N 0043722.10W	38 FT	(RWY 08) DME freq paired with ILS I-RH and I-RY. Zero range is indicated at THR of Runway 08 and 26.
NDB (L) 0.49°W (2027)	RWY	359.000 kHz	Mon-Sat 0600-2045 (0500-1945); Sun 0645-2045 (0545-1945); and by arrangement.	540451.90N 0043722.40W		On AD. Range 20 NM. Normally radiates H24.

EGNS AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to the Isle of Man CTR.
b) Non-radio aircraft are strictly **PPR** through ATC.
c) Instrument training is subject to prior permission from ATC.
d) Under the terms of the Anti-Terrorism and Crime Act 2003, pilots and passengers of private or charter aircraft who have come from or are going to the British Isles, must when requested to do so, make themselves available to be spoken to by an examining officer. In relation to all such flights, the pilot must fully complete a General Aviation Report. Further details can be found here: General Aviation website:
https://www.gov.im/categories/tax-vat-and-your-money/customs-and-excise/arriving-and-leaving-the-island/general-aviation-reporting/
e) Outside published hours of availability, use of the airport is subject to prior permission from the Airport Duty Manager.
f) All parking areas within the critical part of the aerodrome are designated as Customs Area. It shall be the responsibility of the commander of any aircraft that is required to be subjected to Customs inspection to inform ATC at the earliest opportunity.
g) High visibility clothing must be worn on the aprons and manoeuvring area at all times. Health and Safety requirements in respect of ear protection must be observed and are the responsibility of the individuals concerned.

2 GROUND MOVEMENT

a) Due to physical constraints of the apron design, pilots must follow the ground markings at all times.
b) Apron floodlighting is 7 M from the pavement edge and CCTV masts are 4 M from the pavement edge on the west apron. Pilots of aircraft should exercise caution in respect of wing tip clearance. The services of a marshaller are available on request.
c) Class 2 compass calibration base on Runway 21 is only suitable for aircraft with magnetic sensors which are at least five feet above ground. Use governed by prior permission through ATC.
d) Movement to/from Area W at night via D1 only.
e) No taxi lane is available between the east and west aprons. Taxiing through stands 7 & 8 / 8 & 7 is prohibited unless specifically authorised.

3 CAT II/III OPERATIONS

a) Isle of Man Airport is not equipped with CAT II/III procedures, however Low Visibility Procedures are used to protect CAT I operations.

4 WARNINGS

a) Except for light signals ground signals shall not be displayed.
b) Increased bird activity due to coastal location. Bird scaring including the use of pyrotechnics, lethal control and lasers used regularly on the aerodrome.
c) A known windshear hazard exists on short final for Runway 08 when the wind is from the southeast and pilots should adopt appropriate operating procedures. During strong wind conditions, turbulence may be expected on the approach to, or climb out from, any runway.
d) Take-off and landing will be restricted to paved surfaces only.
e) Pilots of helicopters should note the presence of a 10 M anemometer mast in the Met square adjacent to the apron area and exercise due caution when manoeuvring prior to arrival or departure.
f) The presence of high ground to the north of Runway 08/26 centre-line may trigger GPWS alerts if aircraft adopt high rate of descent and/ or fast speed profiles in this sector.
g) Holding position D1 is situated close to the exit from area Whiskey and coincident with the start of the 26 ILS GP critical area. Pilots should exercise extreme caution in observing and complying with holding position D1 to ensure they do not infringe Runway 26 and the GP critical area.
h) Runway 21 - CAUTION - Departing crew should be aware that kite surfing in the vicinity of the climb out is possible during daylight hours.
i) Holding position L1 is situated close to the exit of Area Victor. Pilots should exercise caution in observing and complying with holding position L1 to ensure they do not infringe Runway 08.

5 HELICOPTER OPERATIONS

a) Helicopters are to arrive and depart using the runways as no specified helicopter landing areas are defined.

6 USE OF RUNWAYS

a) Simulated engine failures are not permitted on departure from Runway 26.
b) Pilots should not descend below the indicated PAPI glide path whilst landing on any runway, and the following conditions should be noted:

i. Due to the presence of high ground to the left of the approach for Runway 21, pilots must establish on the runway centre-line before descending on the PAPI glide path.
ii. Due to the presence of an uncontrolled public road in the vicinity of the undershoot area of Runway 03, approaches to this runway are not permitted if the PAPIs are out of service.
iii. The noise abatement procedures as detailed at AD 2.21 should be followed.

7 TRAINING

a) All training flights require approval from ATC.

EGNS AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots of aircraft using the airport shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport, particularly near Castletown and Ballasalla.
b) All propeller driven aircraft must climb straight ahead to 500 FT and must have passed the airport boundary before commencing any turn.
c) All jet aircraft must climb straight ahead to 1000 FT before commencing any turn.
d) All departing aircraft from Runway 26 shall track the extended centre-line until a range of 3 NM or less from IOM DME before commencing any turn. Aircraft unable to receive DME shall climb straight ahead for 2 minutes from commencement of their take off run before commencing any turn. This procedure may only be departed from when authorised by ATC.
e) When approaching to land on any Runway all aircraft shall intercept the extended runway centre-line at a minimum range of 2 NM and shall not descend below the PAPI indicated approach.
f) Any of these procedures may be departed from to the extent necessary for the avoidance of immediate danger.

EGNS AD 2.22 FLIGHT PROCEDURES

1 FLIGHTS WITHIN ISLE OF MAN CTR AND CTA

a) Isle of Man Airspace is subject to Isle of Man Civil Aviation Legislation, details of which are notified at GEN 1-6-6. Pilots requiring Exemptions or Permissions under the Air Navigation Order, Rules of the Air Regulations 2015 or Standardised European Rules of the Air, should contact the Isle of Man Director of Civil Aviation on 01624-682374.
b) All flights regardless of weather conditions, are required to obtain a clearance from ATC prior to entering the CTR/CTA.
c) All IFR flights within the Isle of Man CTR/CTA must fulfil the requirements for Class D Airspace appropriate to existing weather conditions.
d) Special VFR clearances within the CTR/CTA, in IMC or at night, may be issued subject to traffic conditions and limitations by ATC.
e) As extensions to airport hours are frequent, pilots intending to transit the Isle of Man CTR/CTA outside airport published hours are strongly advised to contact Ronaldsway Approach before entering the CTR/CTA.
f) In the event of failure of remote transmitters/receivers, radio communications to the north of the aerodrome below 3000 FT may be restricted and ATC services reduced accordingly. Pilots should ensure that they do not enter the CTR/CTA without ATC clearance. In the event of difficulty in establishing communication, a Flight Information Service may be available from Scottish Information on frequency 119.875 MHz.
g) Pilots may, upon request, be cleared to self-position directly to final approach for the ILS/DME approach to Runway 08 or Runway 26. Pilots are warned that, in order to maintain adequate terrain clearance, descent will not be issued below 3200 FT QNH if arriving from the north-east sector or in any event below 3000 FT QNH until established on the localiser. Pilots are responsible for arranging their flight to intercept the localiser and glidepath at an appropriate range.

2 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Routes

Approach from	Via	Route
N	Direct	MIKEL
NE	DCS	IOM
NW	L10	SLYDA
SE	L10	KELLY
	M146	LUSOD **(See note)**
SW	Y911	IOM
E	Direct	VANIN

Note: *If inbound traffic via M146 is required to hold it will hold at KELLY as per details in the Table below.*

b) Holding. Holding patterns are as follows:

Isle of Man VOR IOM	Holding axis 079° MAG, turning right at the facility.
KELLY	Holding fix IOM VOR/DME 125°/17 NM on an axis of 305° MAG, turning left at the facility, limiting DME IOM D22.
Ronaldsway NDB RWY 08 Ronaldsway NDB RWY 26	Holding axis 259° MAG, turning left at the facility. Holding axis 079° MAG, turning right at the facility.
VANIN (535907N 0040221W)	Holding fix IOM VOR/DME 101°/26 NM on an axis of 281° MAG, turning right at the facility, limiting DME IOM D31.

Note: *Holding may also take place at SLYDA in accordance with the en-route holding procedure described at ENR 3-6-1-1.*

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Standard Routes.

Departing to	Via	Route
N	Direct	MIKEL/SLYDA
NE	Direct	DCS
E	Direct	VANIN
SE	KELLY	L10
	TIMIS	Q39
SW	IOM	Y911
NW	IOM	L10‡

‡ Unless otherwise instructed by ATC, aircraft on the appropriate routes must establish on track by MIKEL/SLYDA.

4 RADIO COMMUNICATIONS FAILURE PROCEDURES

a) In the event of complete communication failure in an aircraft, the pilot will adopt the appropriate procedures notified at ENR 1.1.3 paragraph 4.2.2 to 4.2.4 inclusive, with the following exceptions:

i. When complete communication failure occurs in an aircraft before ETA or before EAT, when this has been received and acknowledged, the aircraft will:

1. fly to the RWY NDB holding point;
2. hold at the last assigned level until the last acknowledged ETA plus 10 minutes or EAT when this has been received and acknowledged; or, if radio failure occurs after an aircraft has reported over the runway NDB, hold at the last assigned level until ATA plus 10 minutes, or 10 minutes after the last acknowledged communications with ATC whichever is the later;
3. then commence descent for landing in accordance with the procedures notified at ENR 1.1.3, paragraph 4.2.2 to 4.2.4 and effect a landing within 30 minutes (or later if able to approach and land visually).

b) Aircraft that are instructed by ATC to hold at IOM, or KELLY, will in the event of complete communication failure:

i. when an Onward Clearance Time has been received and acknowledged, leave IOM, or KELLY at that time at the last assigned level and proceed to the RWY NDB, then carry out the procedures above;
ii. when ‘Delay Not Determined’ has been transmitted by ATC, the aircraft should not attempt to land at Isle of Man aerodrome and should divert to the alternate destination specified in the current flight plan or other suitable airfield.

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGNS AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNS AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNS-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGNS-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNS-5-1
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 03 - ICAO
AD 2.EGNS-8-1
INSTRUMENT APPROACH CHART OFF-SET ILS/DME RWY 08 - ICAO
AD 2.EGNS-8-2
INSTRUMENT APPROACH CHART OFF-SET LOC/DME RWY 08 - ICAO
AD 2.EGNS-8-3
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 08 - ICAO
AD 2.EGNS-8-4
INSTRUMENT APPROACH CHART VOR/DME RWY 08 - ICAO
AD 2.EGNS-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 08 - ICAO
AD 2.EGNS-8-6
INSTRUMENT APPROACH CHART ILS/DME RWY 26 - ICAO
AD 2.EGNS-8-7
INSTRUMENT APPROACH CHART LOC/DME RWY 26 - ICAO
AD 2.EGNS-8-8
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 26 - ICAO
AD 2.EGNS-8-9
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 26 - ICAO
AD 2.EGNS-8-10

EGNS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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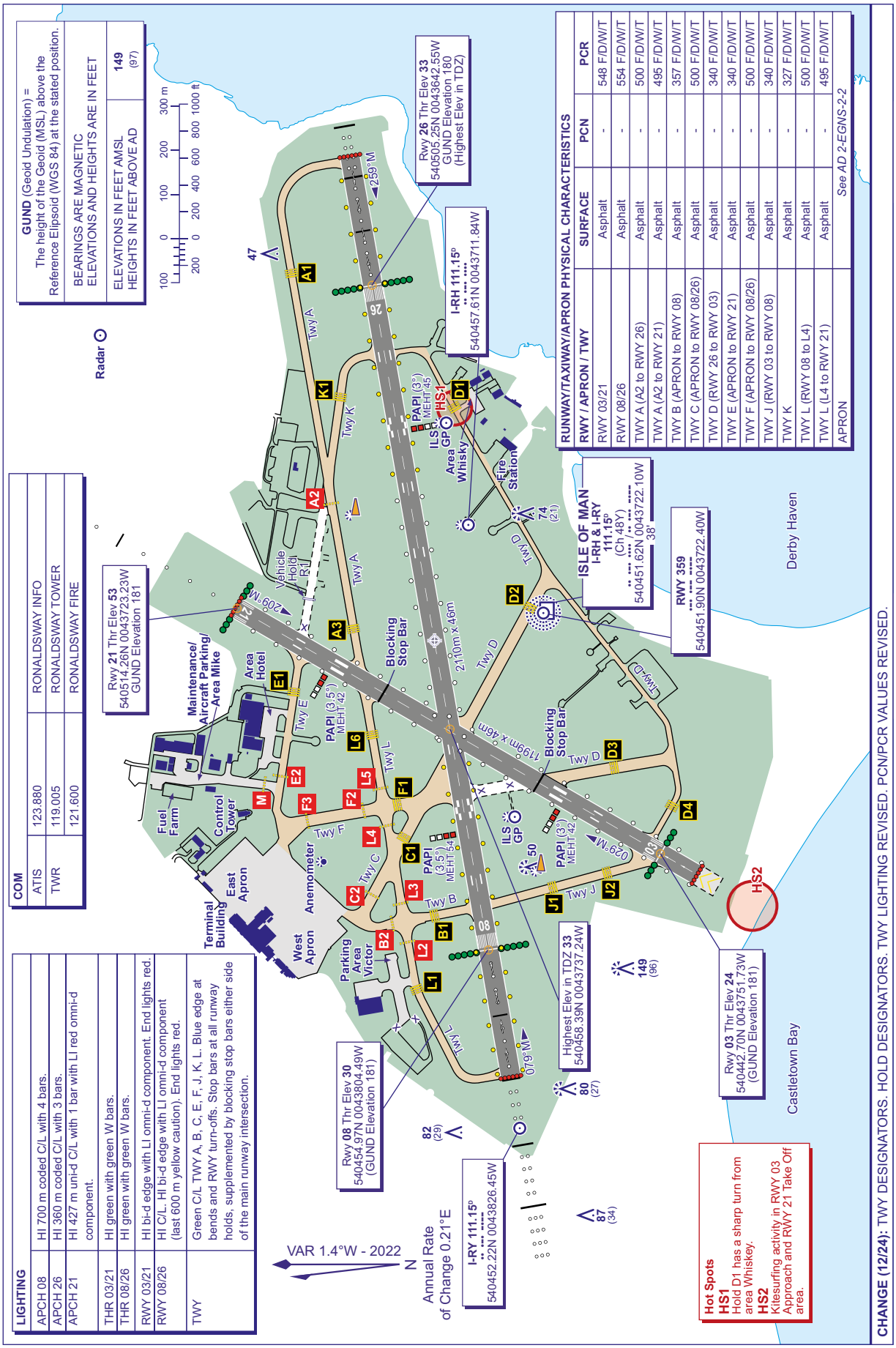
AERODROME CHART - ICAO

ISLE OF MAN EGNS

ARP 540500N 0043724W

AD ELEV 53FT

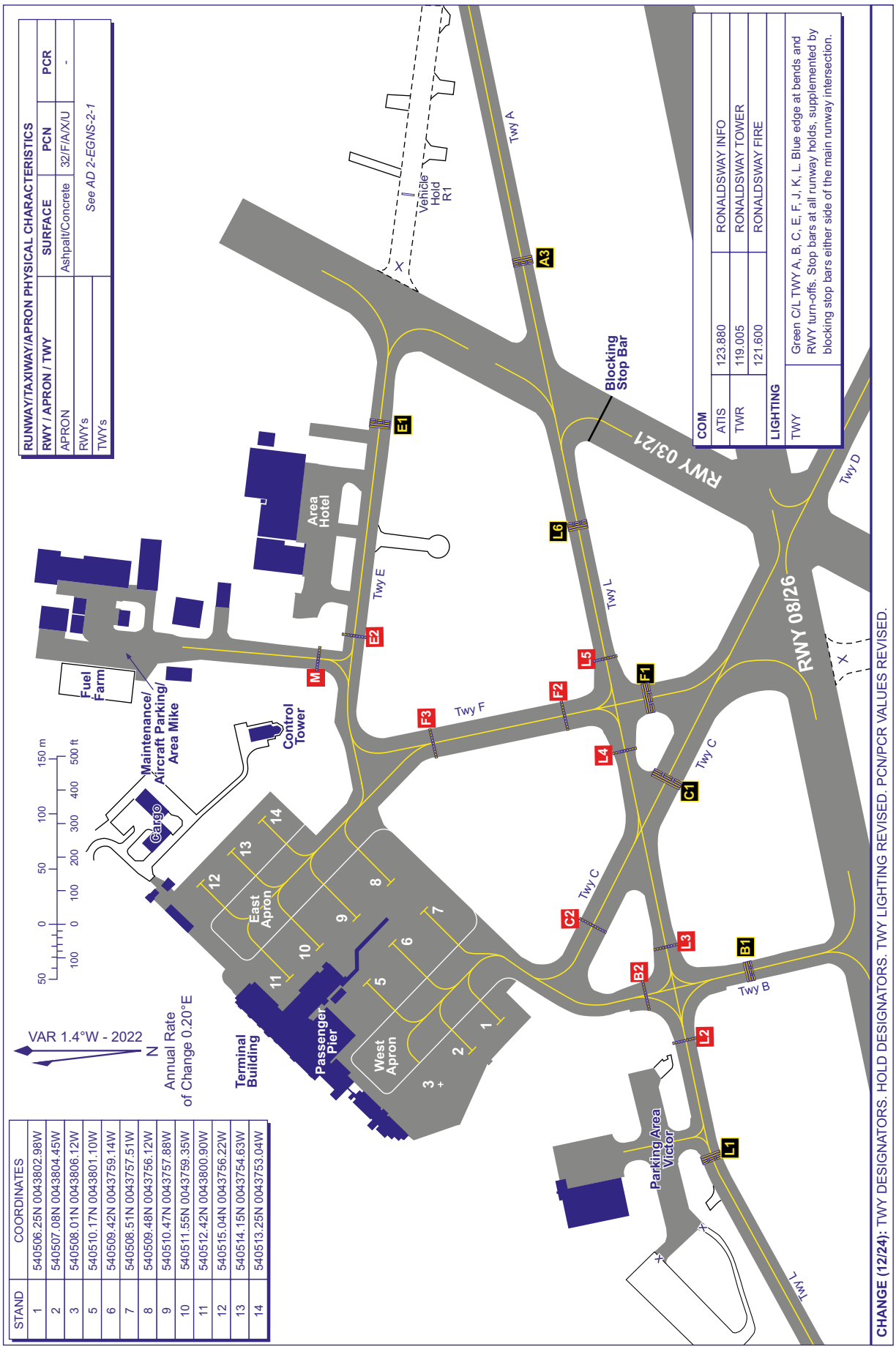


ISLE OF MAN EGNS

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 540500N 0043724W

AD ELEV 53FT



STAND	COORDINATES
1	540506.25N 0043802.98W
2	540507.08N 0043804.45W
3	540508.01N 0043806.12W
5	540510.17N 0043801.10W
6	540509.42N 0043759.14W
7	540508.51N 0043757.51W
8	540509.48N 0043756.12W
9	540510.47N 0043757.88W
10	540511.55N 0043759.35W
11	540512.42N 0043800.90W
12	540515.04N 0043756.22W
13	540514.15N 0043754.63W
14	540513.25N 0043753.04W

CHANGE (12/24): TWY DESIGNATORS. HOLD DESIGNATORS. TWY LIGHTING REVISED. PCN/PCR VALUES REVISED.

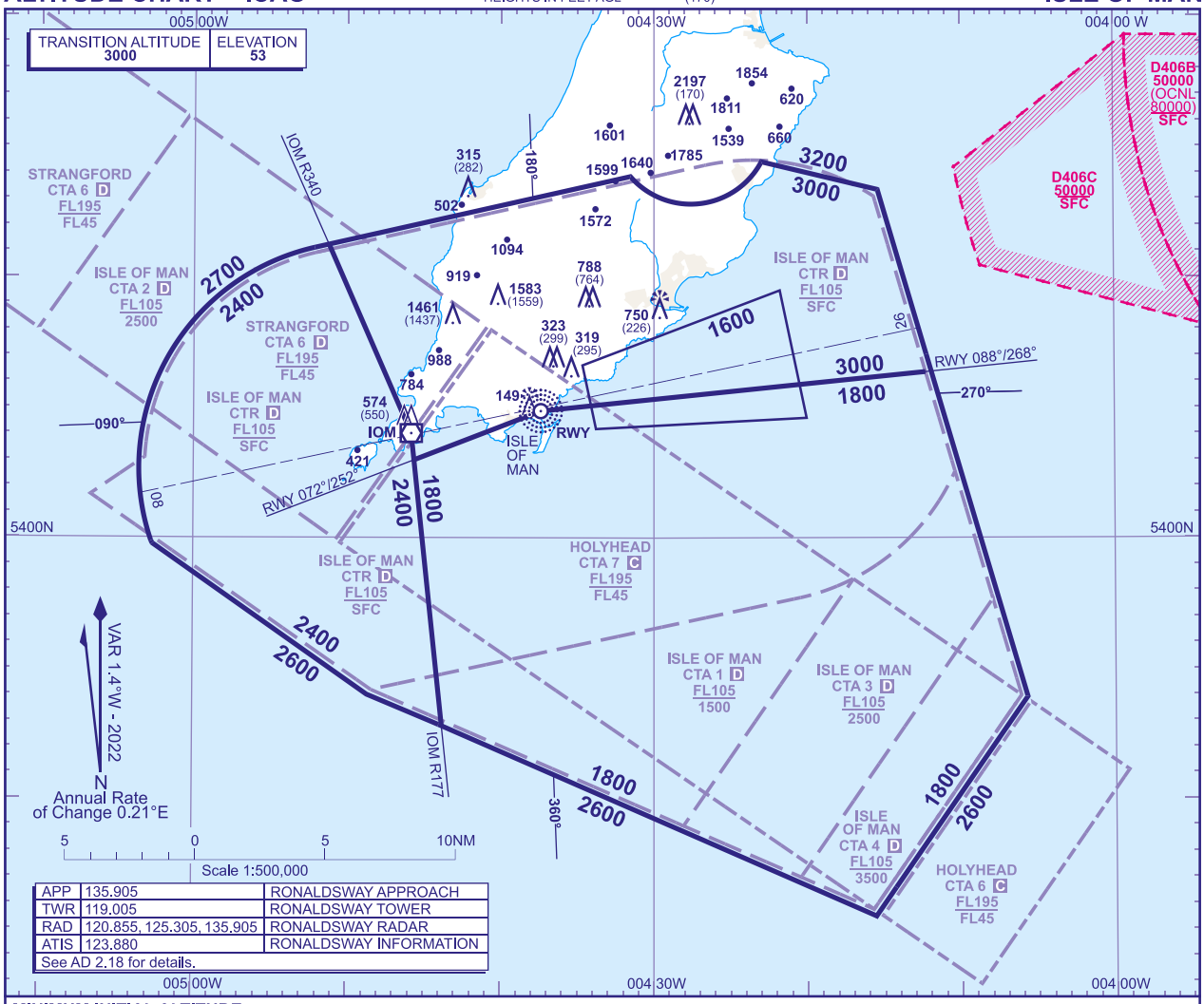
AERO INFO DATE 20 SEP 24

AD 2-EGNS-2-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 2197
HEIGHTS IN FEET AGL (170)

ISLE OF MAN



APP	135.905	RONALDSWAY APPROACH
TWR	119.005	RONALDSWAY TOWER
RAD	120.855, 125.305, 135.905	RONALDSWAY RADAR
ATIS	123.880	RONALDSWAY INFORMATION
See AD 2.18 for details.		

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1800** in the sector defined by the lateral limits; 540259N 0044539W - 540452N 0043722W - 540622N 0041218W - 535358N 0040608W - 534546N 0041545W - 535301N 0044350W - 540259N 0044539W.

b) **2400** in the sector defined by the lateral limits; 535954N 0050223W thence clockwise by an arc of a circle radius 8.5NM centred on 540240N 0044845W to 541056N 0045159W - 541104N 0045105W - 540401N 0044549W - 535301N 0044350W - 535411N 0044823W - 535954N 0050223W.

c) **3000** in the sector defined by the lateral limits; 541104N 0045105W - 541337N 0043147W - thence anti-clockwise by an arc of a circle radius 3NM centred on 541535N 0042755W to 541410N 0042323W - 541305N 0041540W - 540622N 0041218W - 540452N 0043722W - 540259N 0044539W - 540401N 0044549W - 541104N 0045105W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher to **RWY NDB**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible follow the Missed Approach Procedure to **RWY NDB**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is that detailed at EGNS AD 2.22 Para 4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of Instrument approaches other than SRA is cleared to intercept the final approach track.**
9. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
10. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (9/24): SMAA SECTOR ALTITUDES.

AERO INFO DATE 12 JUN 24

AD 2-EGNS-5-1

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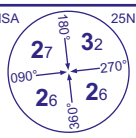
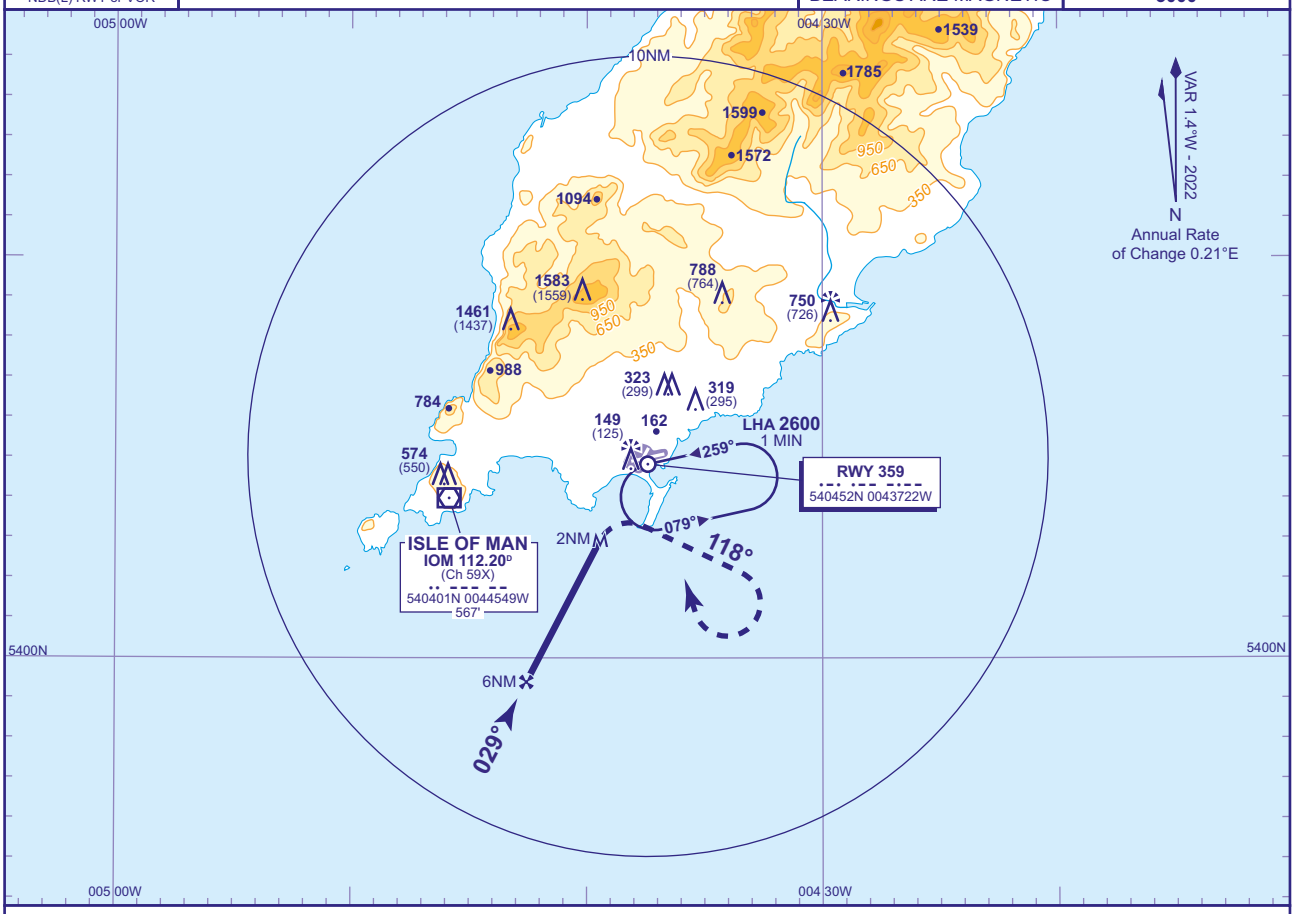
INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN SRA RTR 2NM RWY 03
(ACFT CAT A,B,C,D)



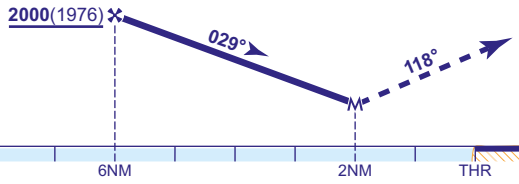
APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	24
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION	
ATIS	123.880	RONALDSWAY INFORMATION	1583 AMSL (1559) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RADAR ADVISORY HEIGHTS Gradient 5.42%, 329FT/NM				
NM	5.0	4.0	3.0	2.0
ALT(HGT)	**1670**(1646)	**1340**(1316)	**1010**(986)	**680**(656)

Initial and intermediate approach as directed by radar.



MAPt RTR 2NM

Continuous climb to **3000**, from the MAPt climbing right turn onto track 118° then when passing **2000** right turn to **NDB(L) RWY** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**680**(656)	**680**(656)	**680**(656)	**680**(656)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(627)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**680**(627)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**680**(627)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	880	770	660	550	440

NOTE Aircraft will normally be required to hold not lower than **3000**.

CHANGE (9/24): AD ELEVATION. MINIMA.

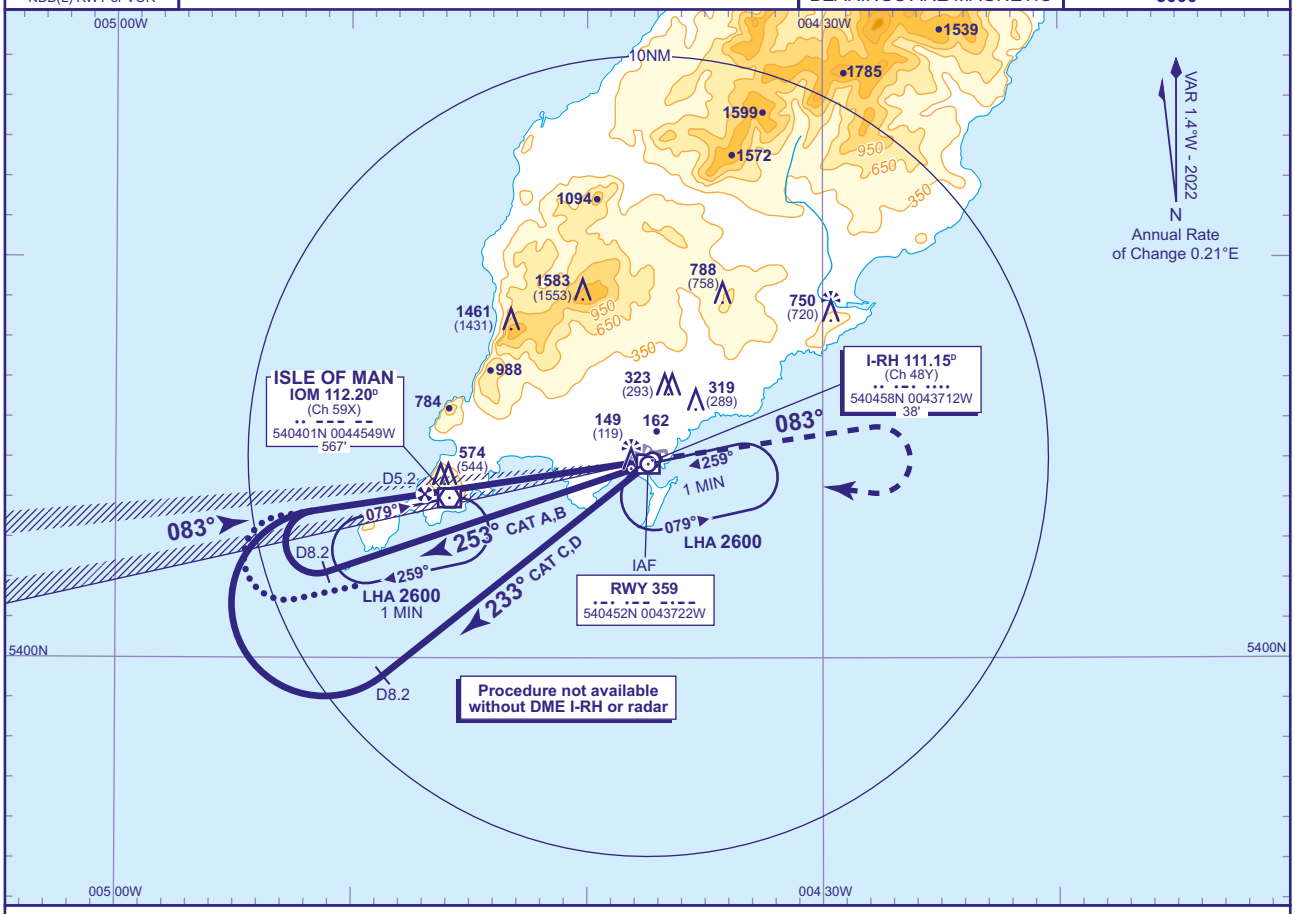
AERO INFO DATE 14 JUN 24

INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN OFFSET ILS/DME RWY 08
(ACFT CAT A,B,C,D)

MSA 25NM
27 32 26 26
NDB(L) RWY or VOR

APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53	
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	30	
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION	1583 AMSL (1553) (ABOVE THR)	
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000

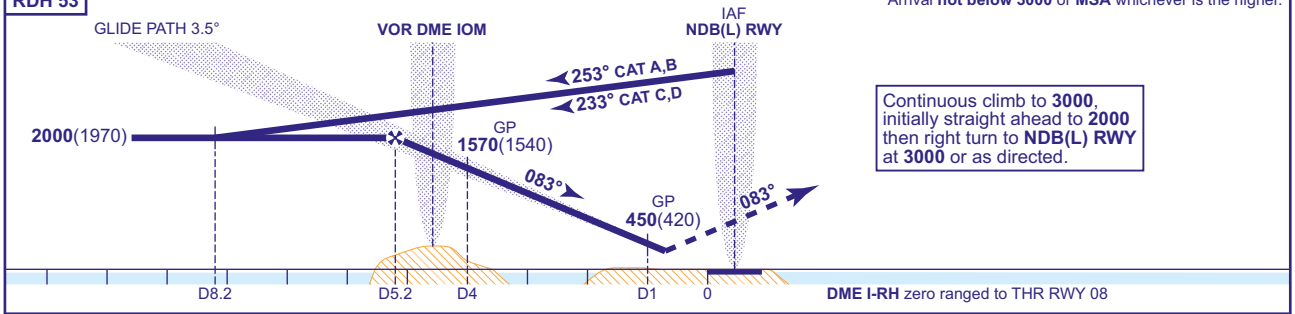


RECOMMENDED PROFILE GLIDE PATH 3.5°, 372FT/NM

DME I-RH	5	4	3	2	1
ALT(HGT)	**1940**(1910)	**1570**(1540)	**1190**(1160)	**820**(790)	**450**(420)

RDH 53

Arrival **not below 3000** or **MSA** whichever is the higher.



Continuous climb to **3000**, initially straight ahead to **2000** then right turn to **NDB(L) RWY** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**322**(292)	**322**(292)	**322**(292)	**323**(293)
VM(C)OCA (OCH AAL)	Total Area	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
From IOM VOR holding pattern, extend the outbound leg descending to **2000**(1970). At I-RH DME 9 turn right to establish on the localizer inbound. When established continue as for Full Procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-RH
Advise ATC . Radar Ranges will be passed at 8.2NM outbound and 4NM inbound.

NOTE 1 Aircraft will normally be required to hold not lower than **3000**.
2 FAT offset 3.77° north of RWY 08 C/L.

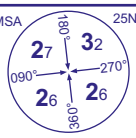
CHANGE (9/24): AD AND THR ELEVATION. MINIMA.

AERO INFO DATE 14 JUN 24

AD 2-EGNS-8-2

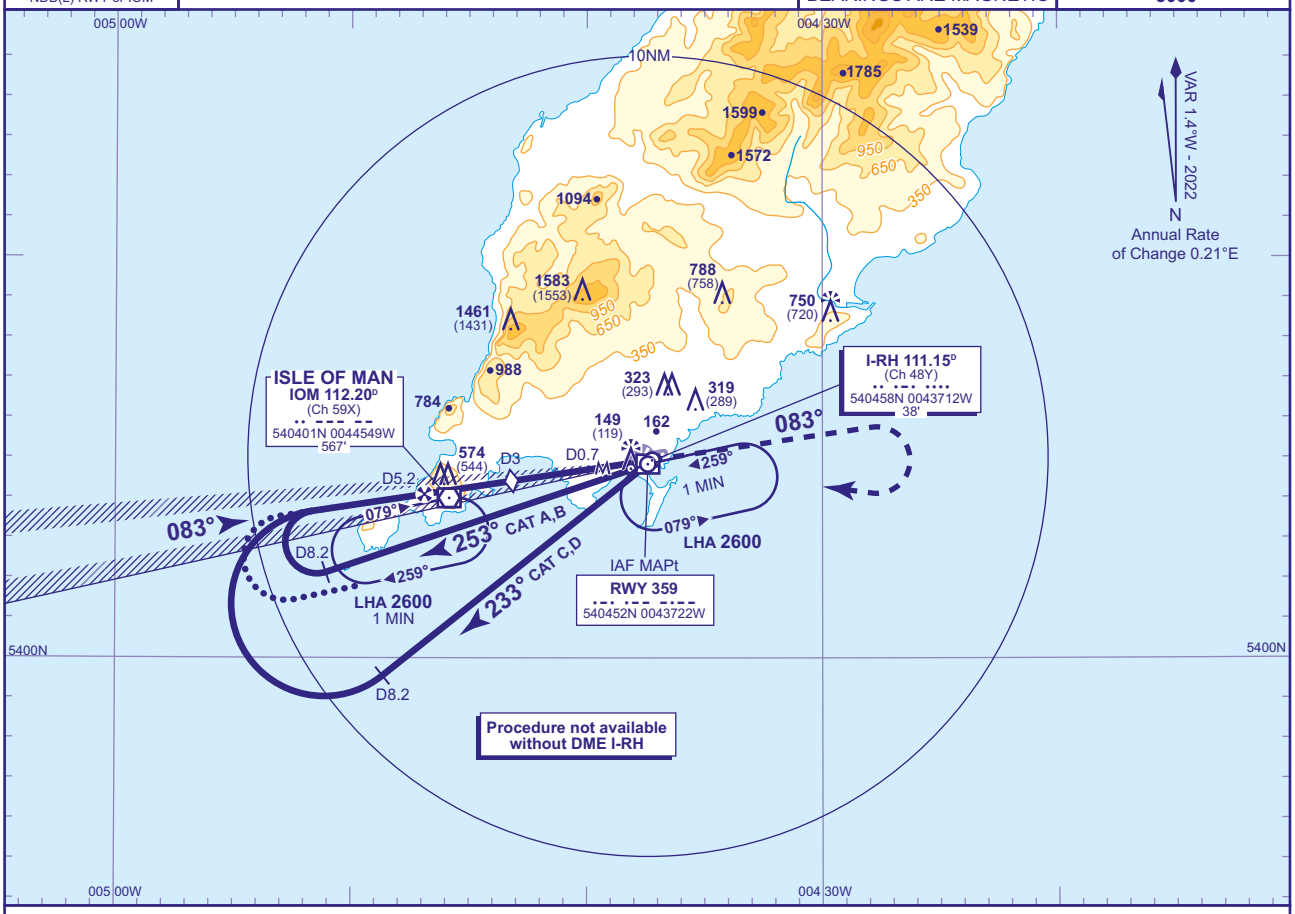
INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN OFFSET LOC/DME RWY 08
(ACFT CAT A,B,C,D)



APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	30
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION	1583 AMSL (1553) (ABOVE THR)
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC	

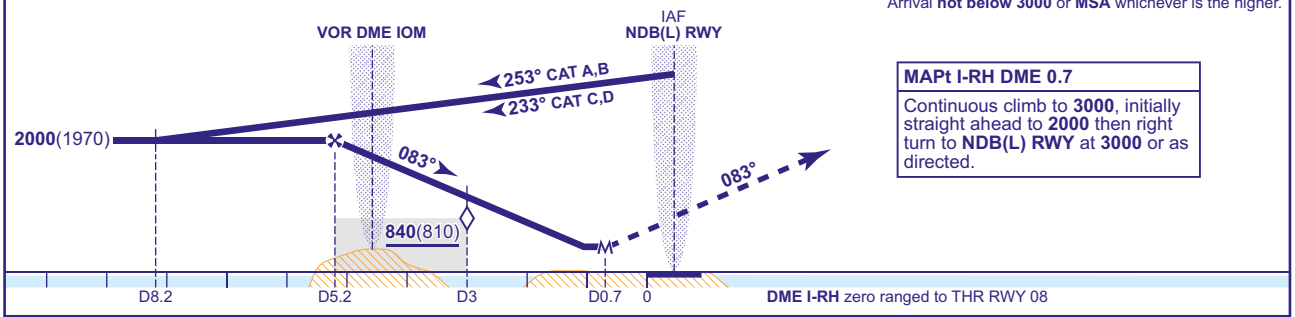
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

DME I-RH	5	4	3 **(SDF)**	2	1
ALT(HGT)	**1940**(1910)	**1570**(1540)	**1190**(1160)	**820**(790)	**450**(420)

Arrival **not below 3000** or **MSA** whichever is the higher.



MAPt I-RH DME 0.7

Continuous climb to **3000**, initially straight ahead to **2000** then right turn to **NDB(L) RWY** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**380**(350)	**380**(350)	**380**(350)	**380**(350)
VM(C)OCA (OCH AAL)	Total Area	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
From IOM VOR holding pattern, extend the outbound leg descending to **2000**(1970). At I-RH DME 9 turn right to establish on the localizer inbound. When established continue as for full procedure.

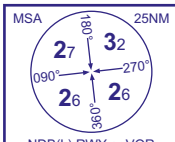
NOTE 1 Aircraft will normally be required to hold not lower than **3000**.
2 FAT offset 3.77° north of RWY 08 C/L.

CHANGE (9/24): AD AND THR ELEVATION. MINIMA.

AERO INFO DATE 14 JUN 24

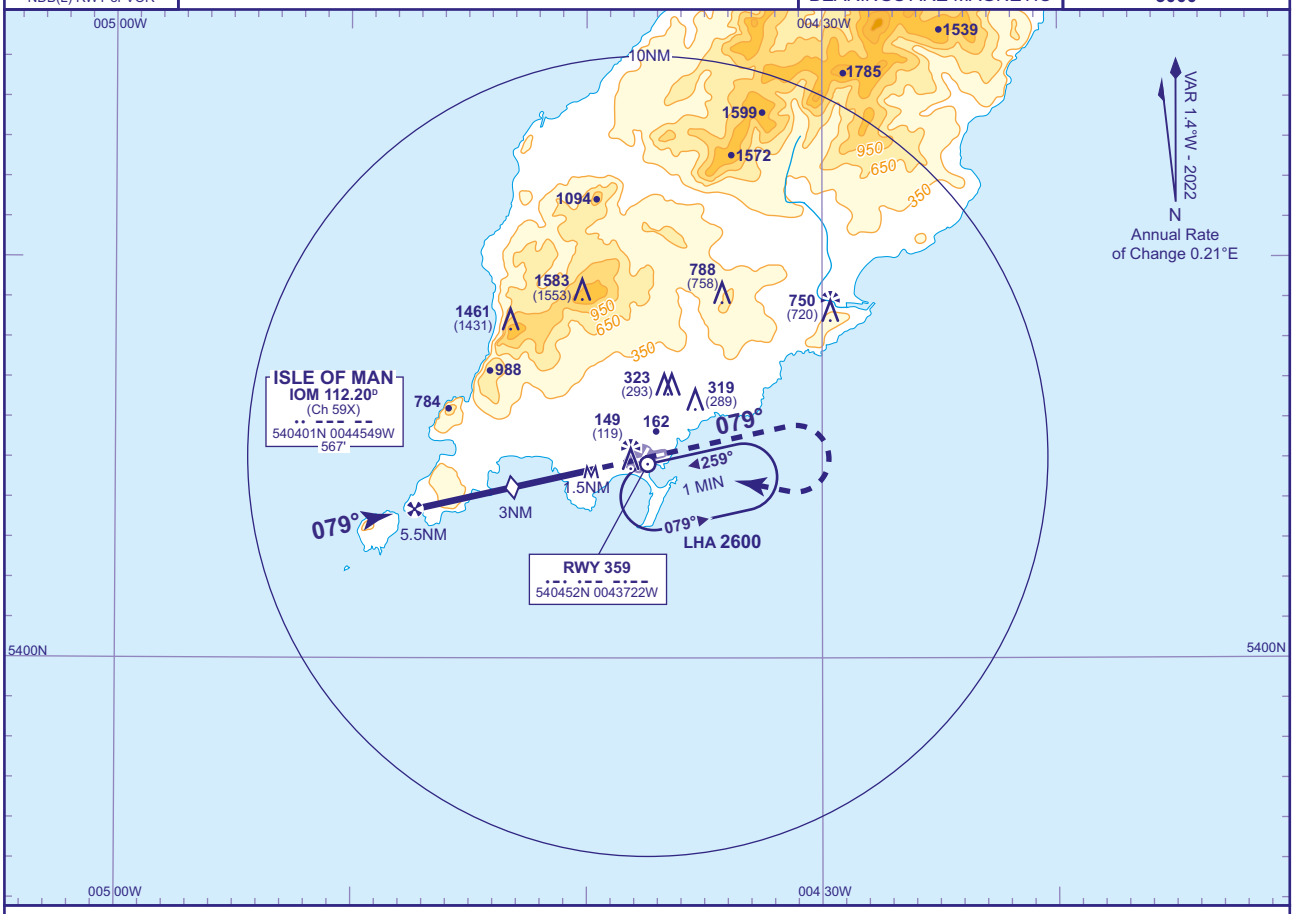
INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN
SRA RTR 2NM
RWY 08
(ACFT CAT A,B,C,D)



APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	30
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION 1583 AMSL (1553) (ABOVE THR)	
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC	

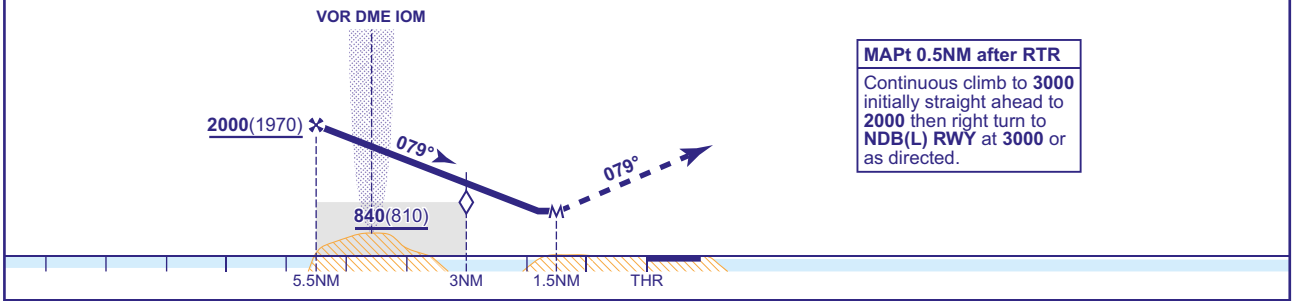
TRANSITION ALTITUDE
3000



RADAR ADVISORY HEIGHTS Gradient 5.90%, 358FT/NM

NM	5.0	4.0	3.0 **(SDF)**	2.0
ALT(HGT)	**1820**(1790)	**1460**(1430)	**1100**(1070)	**750**(720)

Initial and intermediate approach by radar.



MAPt 0.5NM after RTR

Continuous climb to **3000** initially straight ahead to **2000** then right turn to **NDB(L) RWY** at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**630**(600)	**630**(600)	**630**(600)	**630**(600)
VM(C)OCA (OCH AAL)	**Total Area**	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	960	840	720	600	480
RTR to MAPt	MIN:SEC	0:11	0:13	0:15	0:18	0:23

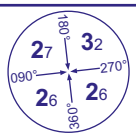
NOTE Aircraft will normally be required to hold not lower than **3000**.

CHANGE (9/24): AD AND THR ELEVATION. MINIMA.

AERO INFO DATE 14 JUN 24

INSTRUMENT APPROACH CHART - ICAO

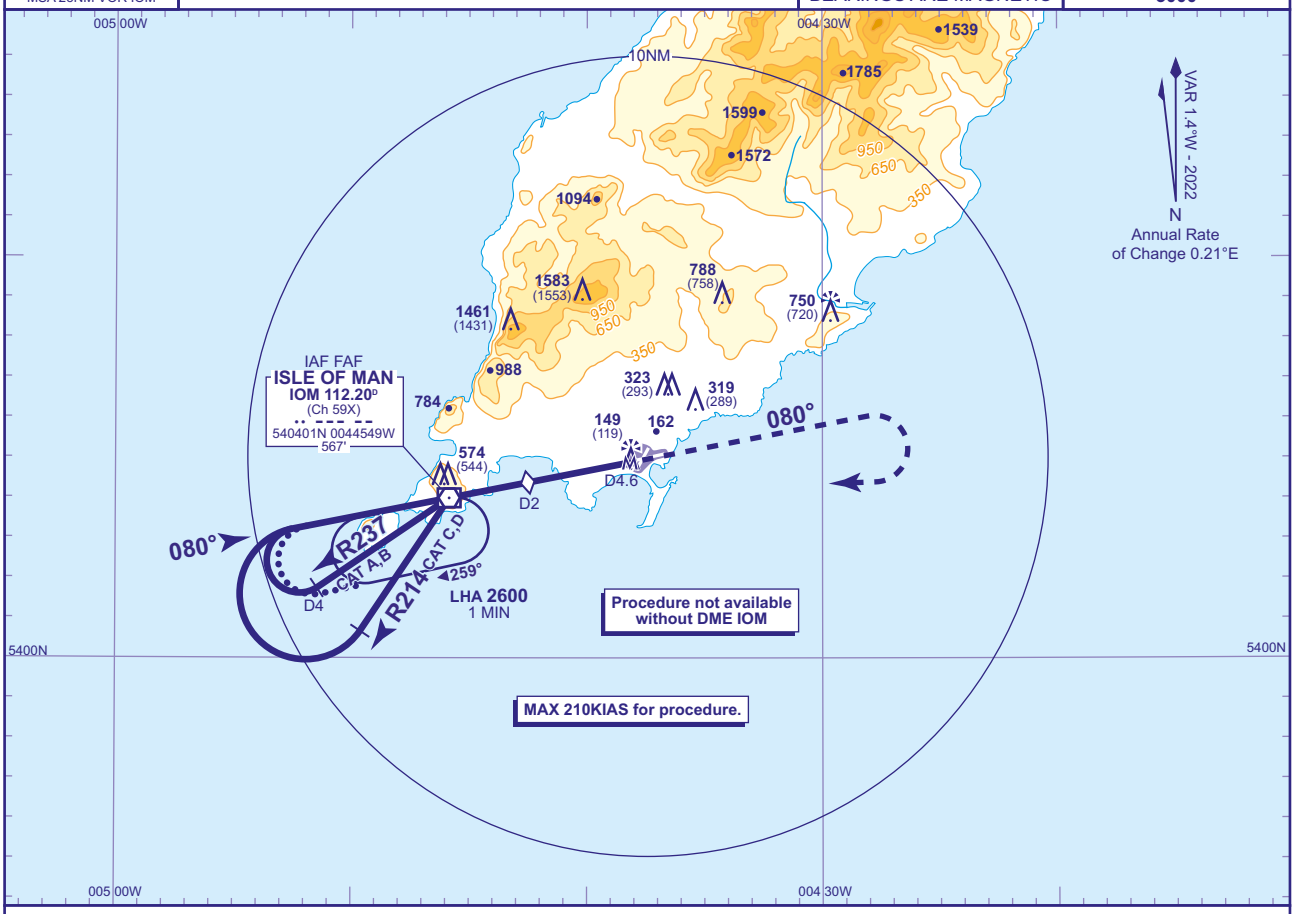
ISLE OF MAN VOR/DME RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM VOR IOM

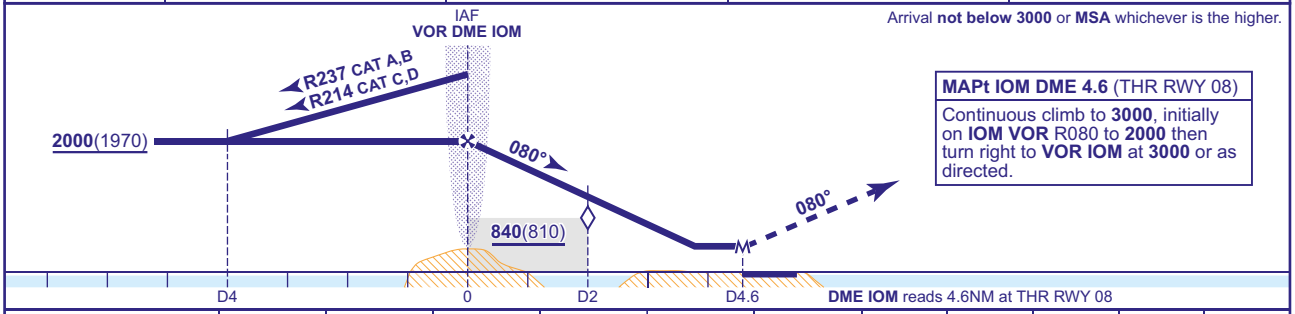
APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	30
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION	
ATIS	123.880	RONALDSWAY INFORMATION	1583 AMSL (1553) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6.81%, 414FT/NM

DME IOM	IOM VOR	1	2 **(SDF)**	3
ALT(HGT)	**2000**(1970)	**1590**(1560)	**1170**(1140)	**760**(730)



MAPt IOM DME 4.6 (THR RWY 08)
Continuous climb to **3000**, initially on **IOM VOR** R080 to **2000** then turn right to **VOR IOM** at **3000** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**430**(400)	**430**(400)	**430**(400)	**430**(400)
VM(C)OCA (OCH AAL)	**Total Area**	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	1100	970	830	690	550

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
From IOM VOR holding pattern, extend the outbound leg descending to **2000**(1970). At IOM DME 4 turn right to intercept the FAT inbound. When established continue as for basic procedure.

NOTE 1 Aircraft will normally be required to hold not lower than **3000**.
2 FAT offset 1° from RWY 08 C/L.

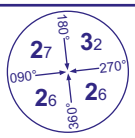
WARNING This procedure is based upon the VOR/DME IOM, which is situated 4.6NM west of the aerodrome. All ranges are relative to the VOR/DME IOM and **DO NOT PROVIDE RANGES TO THRESHOLD**. Terrain and obstacles are present in the vicinity of VOR/DME IOM, **DO NOT DESCEND BELOW PROCEDURE MINIMUM ALT/HGT**.

CHANGE (9/24): AD AND THR ELEVATION. MINIMA.

AERO INFO DATE 14 JUN 24
AD 2-EGNS-8-5

INSTRUMENT APPROACH CHART - ICAO

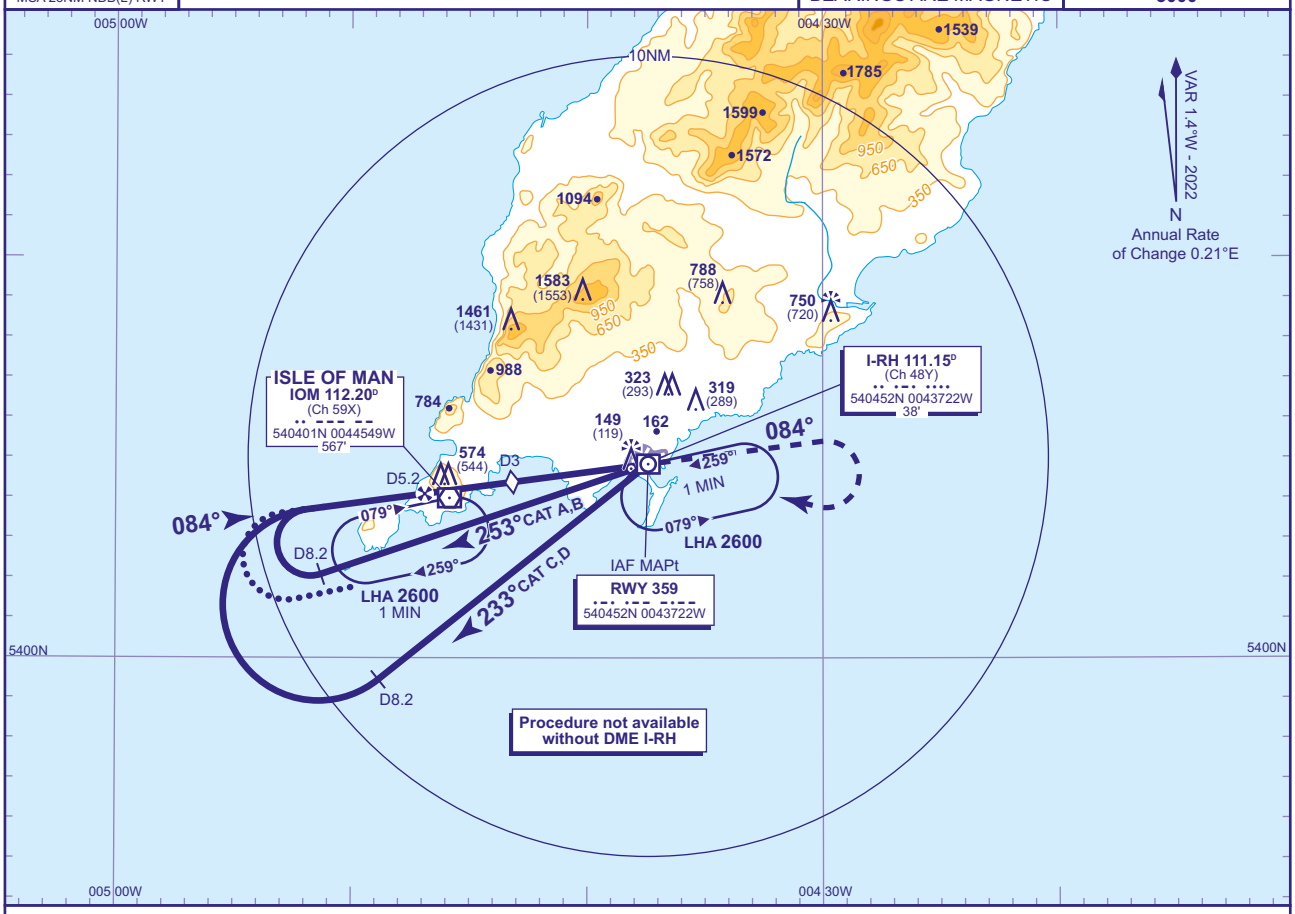
ISLE OF MAN NDB(L)/DME RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) RWY

APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	30
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION	1583 AMSL (1553) (ABOVE THR)
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC	

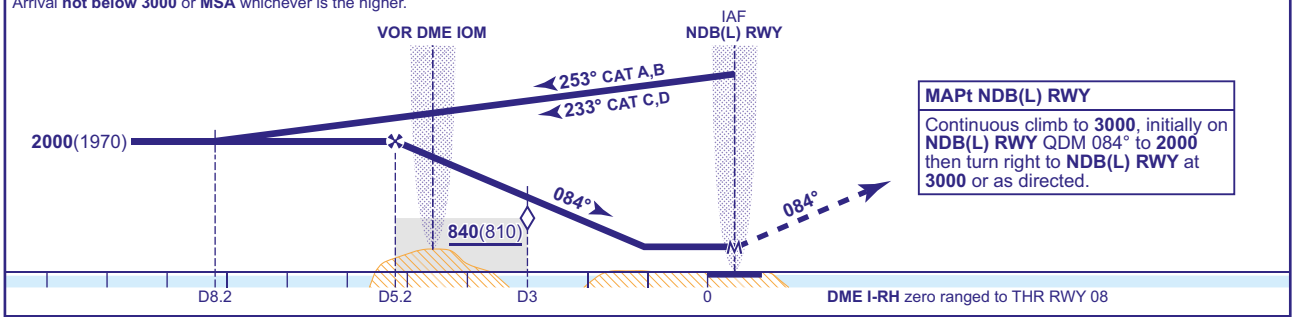
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6.08%, 370FT/NM

DME I-RH	5	4	3 **(SDF)**	2	1
ALT(HGT)	**1930**(1900)	**1560**(1530)	**1190**(1160)	**820**(790)	**450**(420)

Arrival **not below 3000** or **MSA** whichever is the higher.



MAPt NDB(L) RWY
Continuous climb to **3000**, initially on **NDB(L) RWY** QDM 084° to **2000** then turn right to **NDB(L) RWY** at **3000** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**450**(420)	**450**(420)	**450**(420)	**450**(420)
VM(C)OCA (OCH AAL)	**Total Area**	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	860	740	620	490

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
From IOM VOR holding pattern, extend the outbound leg descending to **2000**(1970). At I-RH DME 9 turn right to establish on the FAT then continue as for full procedure.

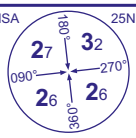
NOTE 1 Aircraft will normally be required to hold not lower than **3000**.
2 FAT offset 5° from RWY 08 C/L and intercepts nominally 1.2NM before THR.

CHANGE (9/24): AD AND THR ELEVATION. MINIMA.

AERO INFO DATE 19 JUN 24 AD 2-EGNS-8-6

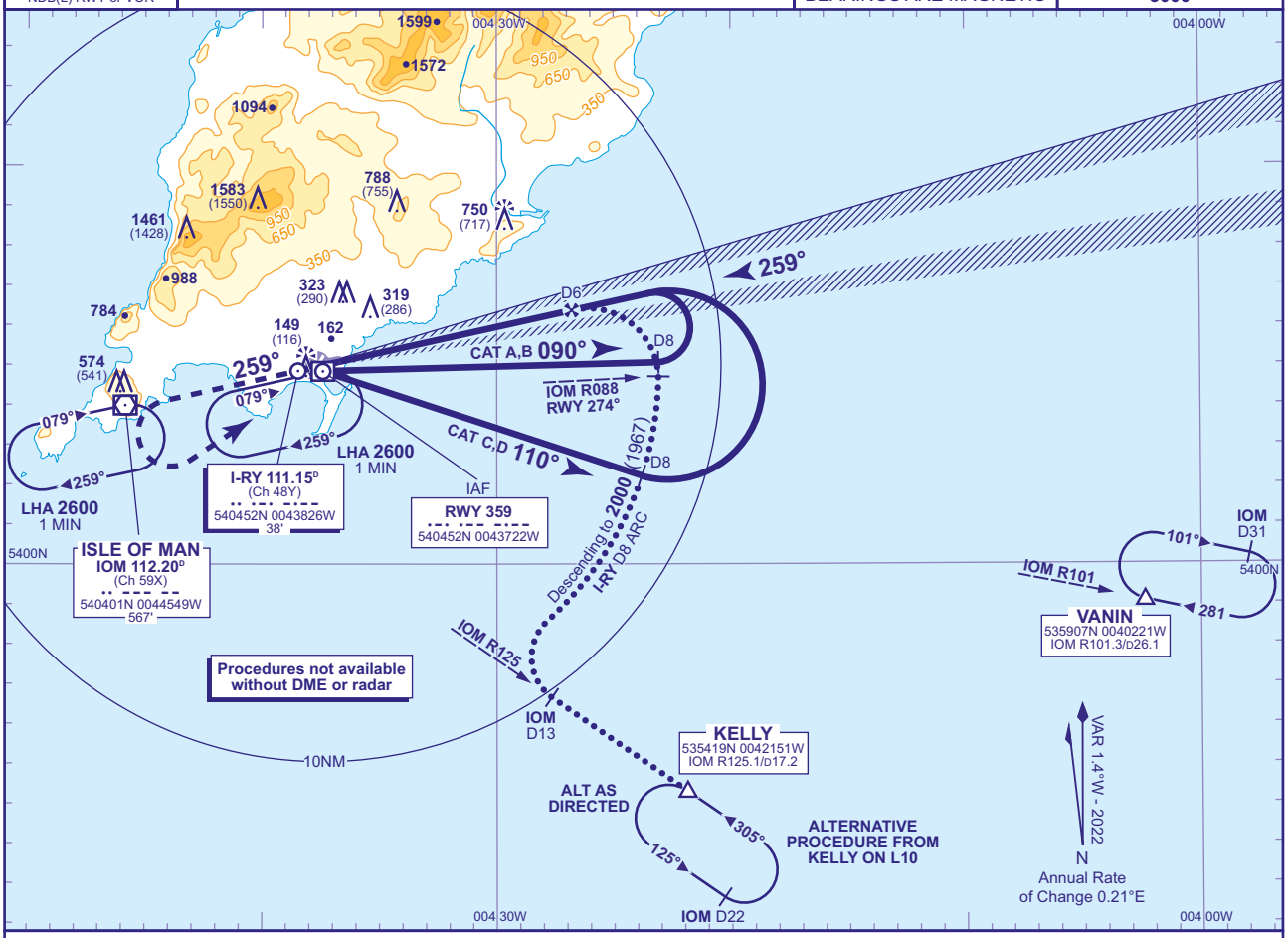
INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN ILS/DME RWY 26
(ACFT CAT A,B,C,D)



APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53	
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	33	
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION	1583 AMSL (1550) (ABOVE THR)	
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**

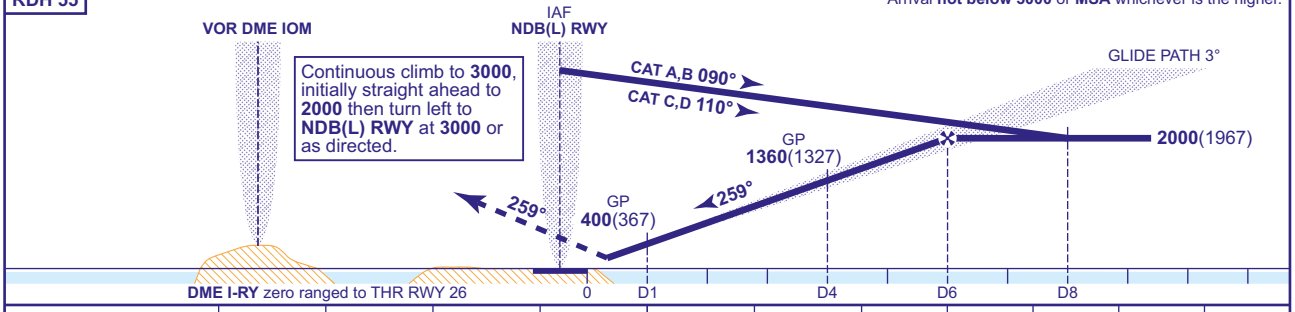


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-RY	6	5	4	3	2	1
ALT(HGT)	**2000**(1967)	**1680**(1647)	**1360**(1327)	**1040**(1007)	**720**(687)	**400**(367)

RDH 55

Arrival **not below 3000** or **MSA** whichever is the higher.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**173**(140)	**181**(148)	**190**(157)	**202**(169)
VM(C)OCA (OCH AAL)	Total Area	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURES
FROM OVERHEAD VOR IOM: Descend as required to **3000** inbound to NDB(L) RWY on QDM 079°, then continue as for full procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-RY
Advise ATC. Radar Ranges will be passed at 8NM outbound and 4NM inbound.

NOTE 1 Aircraft will normally be required to hold not lower than **3000**.

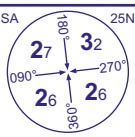
CHANGE (9/24): AD ELEVATION. MINIMA.

AERO INFO DATE 14 JUN 24

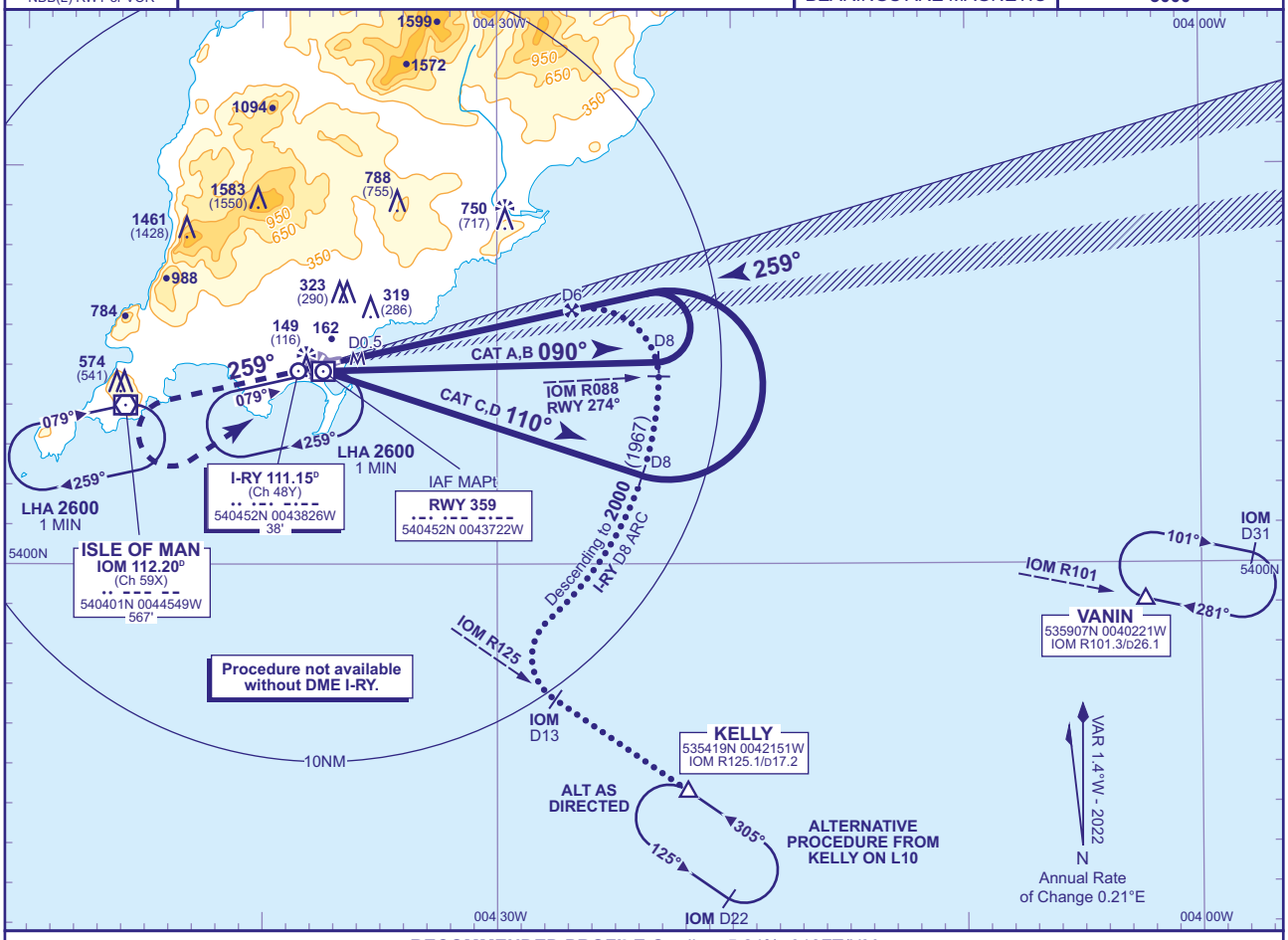
AD 2-EGNS-8-7

INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN LOC/DME RWY 26
(ACFT CAT A,B,C,D)



APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53	TRANSITION ALTITUDE 3000
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	33	
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION 1583 AMSL (1550) (ABOVE THR)		
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC		

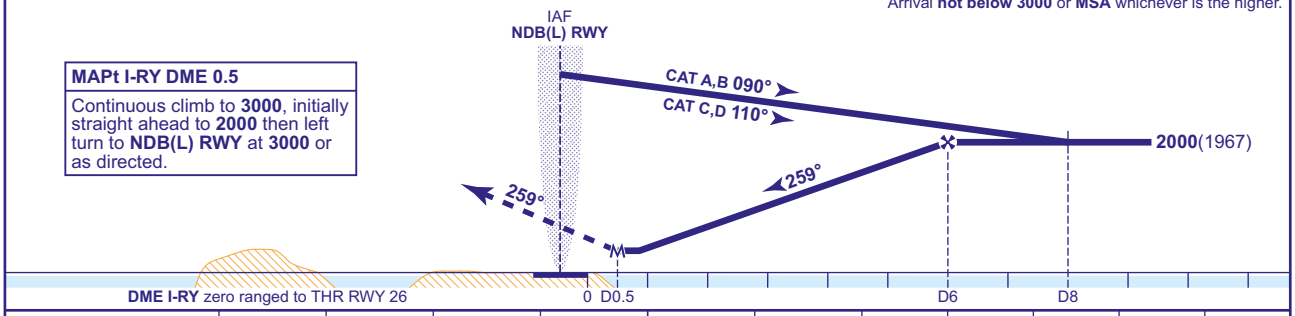


RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-RY	6	5	4	3	2	1
ALT(HGT)	**2000**(1967)	**1680**(1647)	**1360**(1327)	**1040**(1007)	**720**(687)	**400**(367)

Arrival **not below 3000** or **MSA** whichever is the higher.

MAPt I-RY DME 0.5
Continuous climb to **3000**, initially straight ahead to **2000** then left turn to **NDB(L) RWY** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**320**(287)	**320**(287)	**320**(287)	**320**(287)
VM(C)OCA (OCH AAL)	Total Area	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURES
FROM OVERHEAD VOR IOM: Descend as required to **3000** inbound to NDB(L) RWY on QDM 079°, then continue as for full procedure.

NOTE 1 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (9/24): AD ELEVATION. MINIMA.

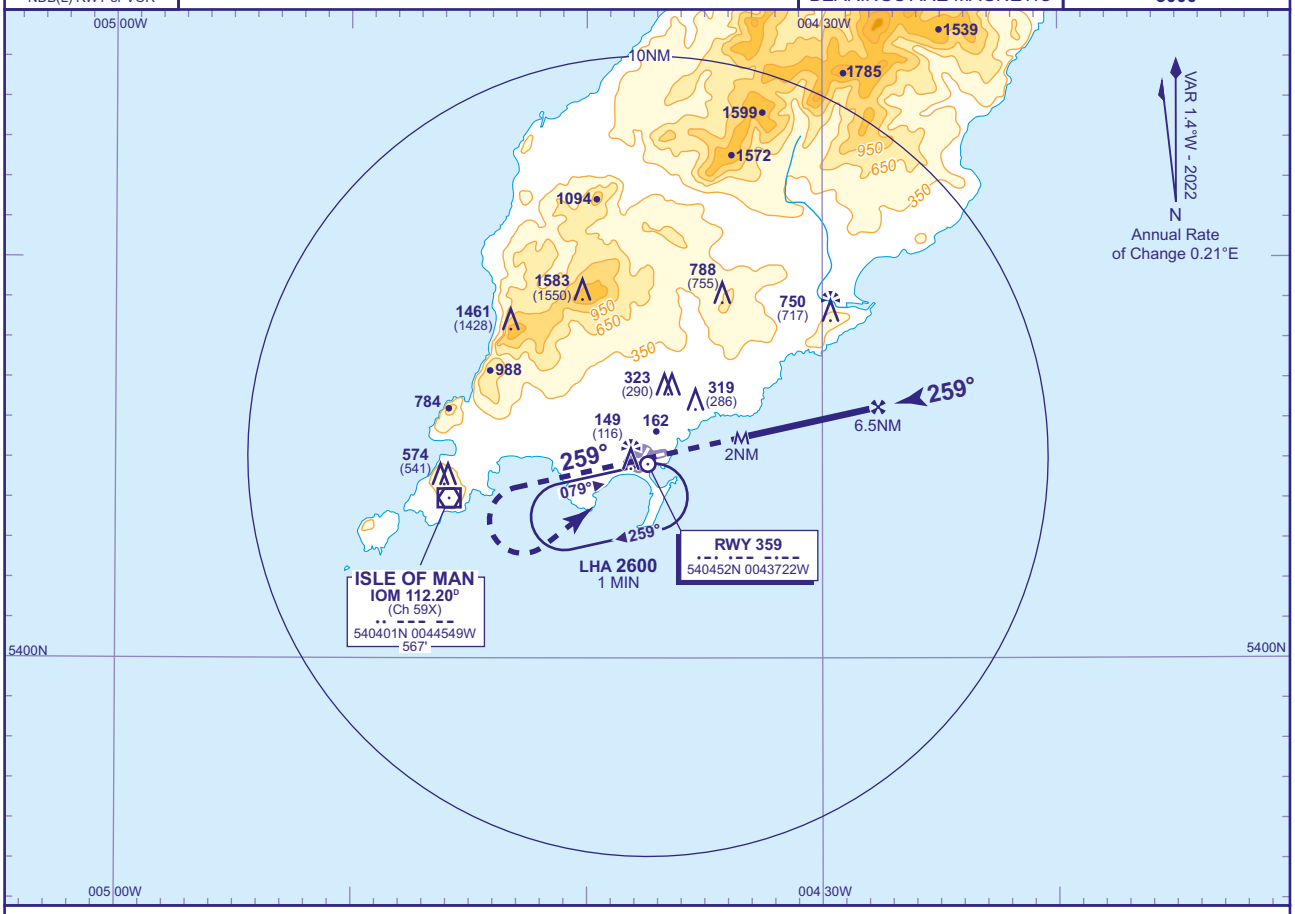
AERO INFO DATE 14 JUN 24 AD 2-EGNS-8-8

INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN SRA RTR 2NM RWY 26
(ACFT CAT A,B,C,D)



APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53	TRANSITION ALTITUDE 3000
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	33	
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION 1583 AMSL (1550) (ABOVE THR)		
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC		

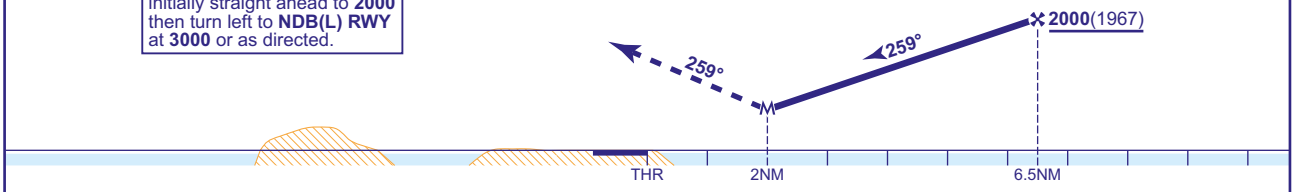


RADAR ADVISORY HEIGHTS Gradient 4.98%, 303FT/NM

NM	6.0	5.0	4.0	3.0	2.0
ALT(HGT)	**1850**(1817)	**1550**(1517)	**1240**(1207)	**940**(907)	**640**(607)

Initial and intermediate approach as directed by radar.

MAPt RTR 2NM
Continuous climb to **3000**, initially straight ahead to **2000** then turn left to **NDB(L) RWY** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**640**(607)	**640**(607)	**640**(607)	**640**(607)
VM(C)OCA (OCH AAL)	Total Area	**660**(607)	**780**(727)	**1990**(1937)	**1990**(1937)
	South of RWY 08/26	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)
	East of RWY 03/21	**660**(607)	**780**(727)	**1320**(1267)	**1390**(1337)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

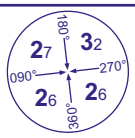
NOTE Aircraft will normally be required to hold not lower than **3000**.

CHANGE (9/24): AD ELEVATION. MINIMA.

AERO INFO DATE 14 JUN 24

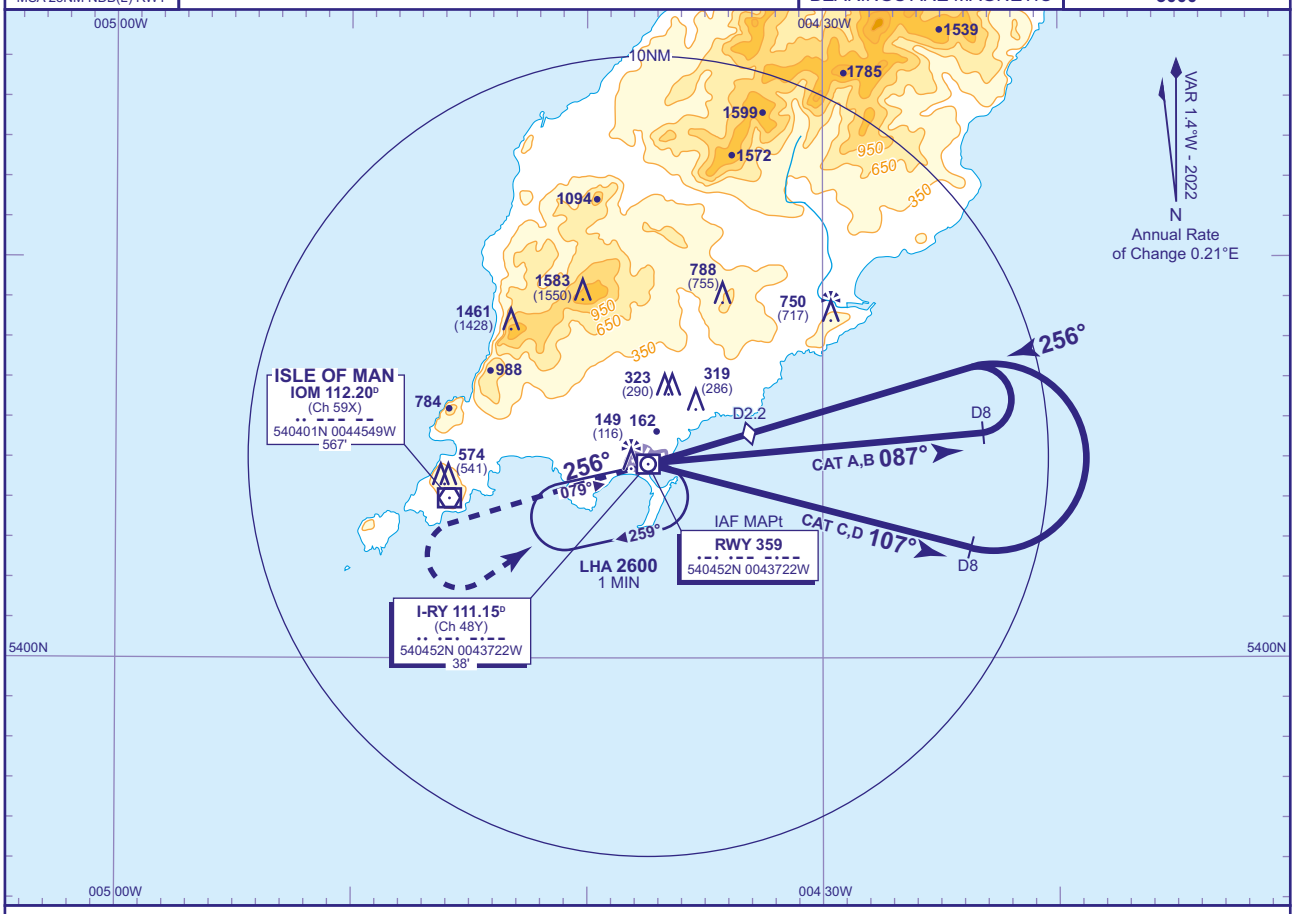
INSTRUMENT APPROACH CHART - ICAO

ISLE OF MAN NDB(L)/DME RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) RWY

APP	135.905	RONALDSWAY APPROACH	AD ELEVATION	53	
TWR	119.005	RONALDSWAY TOWER	THR ELEVATION	33	
RAD	135.905, 120.855, 125.305	RONALDSWAY RADAR	OBSTACLE ELEVATION	1583 AMSL (1550) (ABOVE THR)	
ATIS	123.880	RONALDSWAY INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000

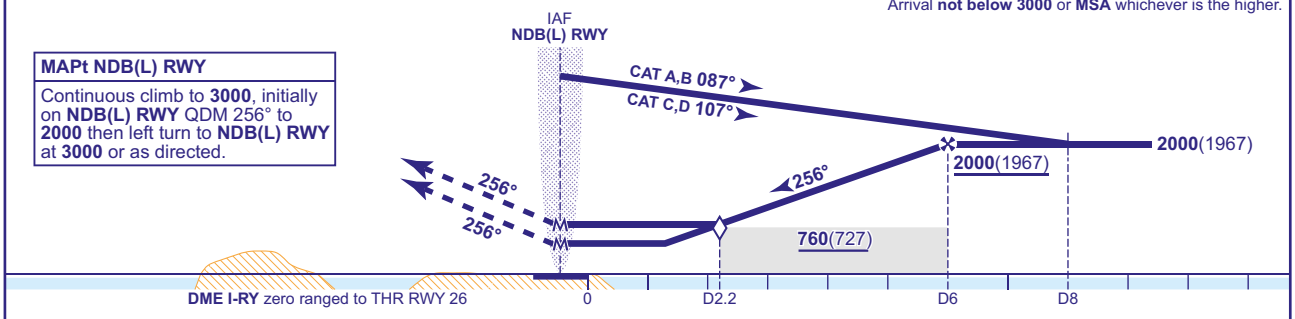


RECOMMENDED PROFILE Gradient 5.25%, 319FT/NM

DME I-RY	5	4	3	2.2 **(SDF)**	2
ALT(HGT)	**1680**(1647)	**1360**(1327)	**1040**(1007)	**790**(757)	**720**(687)

Arrival **not below 3000** or **MSA** whichever is the higher.

MAPt NDB(L) RWY
Continuous climb to **3000**, initially on **NDB(L) RWY** QDM 256° to **2000** then left turn to **NDB(L) RWY** at **3000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	**WITH DME**	**510**(477)	**510**(477)	**510**(477)	**510**(477)		**FT/MIN**	850	740	640	530	430
	NO DME	**810**(777)	**810**(777)	**810**(777)	**810**(777)							
VM(C)OCA (OCH AAL) (See Note 3)	**Total Area**	**810**(757)	**810**(757)	**1990**(1937)	**1990**(1937)							
	South of RWY 08/26	**810**(757)	**810**(757)	**1320**(1267)	**1390**(1337)							
	East of RWY 03/21	**810**(757)	**810**(757)	**1320**(1267)	**1390**(1337)							

AIRCRAFT UNABLE TO RECEIVE DME I-RY
Substitute timings for distance on outbound legs and commence base turn at 3MIN (CAT A,B); 2.5MIN (CAT C,D) and when established on FAT descend to MDH.

NOTE 1 Aircraft will normally be required to hold not lower than **3000**.
2 FAT offset 3.75 north from RWY 26 C/L: FAT intercepts C/L nominally 1.7NM before THR.

CHANGE (9/24): AD ELEVATION. MINIMA. NOTE 3 REMOVED.

AERO INFO DATE 20 JUN 24

EGJJ — JERSEY

EGJJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGJJ — JERSEY

EGJJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 491229N Long: 0021144W Centre of Runway 08/26.
2	Direction and distance from city	4 NM WNW of St Helier.
3	Elevation / Reference temperature / Mean Low Temperature	277 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	160 FT
5	Magnetic Variation / Annual Change	0.04°E (2022) / 0.19°E
6	AD Administration Address Telephone Telefax E-mail address	JERSEY AIRPORT. Jersey Airport, St Peter, Jersey, JE1 1BY Channel Islands. 01534-446008 (Administration) 01534-446086 (ATC) 01534-446301 (ATIS) 01534-446080 (Flight Planning) 01534-446081 (ATC) 01534-446075 (Flight Planning) atcsupervisor@ports.je (ATC) customerrelations@ports.je (General Enquiries)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGJJ AD 2.3 OPERATIONAL HOURS

1	AD Administration	0700-2100 (0600-2030); and by arrangement.
2	Customs and immigration	As AD hours.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours (Self-briefing).
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	H24
7	ATS	See item AD 2.18.
8	Fuelling	See item AD 2.4.
9	Handling	As AD hours.
10	Security	H24
11	De-icing	By arrangement with Swissport.
12	Remarks	The airport is not available under any circumstances between 2359-0700 (2300-0600) except for emergency or ambulance flights. Refer also to AD 2.20 item 1 and to AD 2.21.

EGJJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Oceanair, Tel: 01534-496920.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80, W100, E100 and 100
3	Fuelling facilities/capacity	
4	De-icing facilities	By arrangement with Swissport: Tel: 01534-747105.
5	Hangar space for visiting aircraft	None.
6	Repair facilities for visiting aircraft	Major for light aircraft. Minor for other aircraft. Channel Island Aero Services Tel 01534- 742373.

7	Remarks	Refuelling not available after 1900 (1800) for AVGAS 100LL, or after 2000 (1900) for JET A-1, except by special arrangement. Commercial airlines must make prior arrangement for ground handling. Communications should be addressed to Airport Coordination Limited (ACL) slot co-ordination by email to LONACXH@acl-uk.org stating the below: (a) Aircraft type, registration and operator; (b) Point of origin and destination; (c) ETA and ETD Jersey. All visiting general aviation, private charter, corporate or military aircraft require a handling agent. The handling agent will provide customs, immigration and handling facilities including the collection of landing fees. Visiting general aviation, with a MTOW of less than 3000 KG operating via the Jersey Aero Club require handling by Jersey Aero Club and will be parked on the grass area north east of the Aero Club Apron/Hangar. Handling must be pre-booked with Jersey Aero Club, Email: info@jerseyaeroclub.com or Tel: +44 (0)1534-743990. Visiting general/corporate aviation aircraft with a MTOW of 3000 KG or more and all Military aircraft will normally be handled by Gama Aviation. Aircraft between 3000 KG and 45500 KG will normally be parked on the Gama Apron. Non-military aircraft with a MTOW more than 45500 KG will normally be parked on Stands 15-19 (nose in). Military aircraft will normally be parked on the Eastern Apron or Stands 20-23. Visiting Very Light Jet (VLJ) aircraft will normally be handled by Gama Aviation regardless of MTOW. Handling must be pre-booked with Gama Aviation. Tel: +44 (0)1534-496496.

EGJJ AD 2.5 PASSENGER FACILITIES

1	Hotels	None.
2	Restaurants	Restaurant and buffet.
3	Transportation	Buses, coaches and taxis.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Cash Points in terminal.
6	Tourist Office	Tel: 01534-859000. URL: www.jersey.com
7	Remarks	

EGJJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 Contact: Tel: +44 (0)1534-446061. RFF Category 5: 0600-0650 (0500-0550) for prior arranged freight aircraft only. RFF Category 7: 0700-2100 (0600-2030) Available by arrangement. 12 hours prior notice required. RFF Category - determined by aircraft type: 2100-0600 (2030-0500).
2	Rescue equipment	Cutting equipment, winches, lifting and forcing bags.
3	Capability for removal of disabled aircraft	Limited to private and light commercial aircraft utilising airport resources. Large aircraft can be removed using external resources in conjunction with aircraft operator.
4	Remarks	

EGJJ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Snowblower, Ploughs, Clearway 1.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Latest information from: ATC Supervisor +44(0)1534-446086. Jersey Airport's policy on clearing a contaminated runway will always be to clear back to a blacktop.

EGJJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	EASTERN APRON Surface: Concrete PCN 13/R/C/W/T NORTH APRON Surface: Concrete PCN 72/R/B/W/T SOUTH APRON Surface: Concrete PCN 48/R/B/W/T
2	Taxiway width, surface and strength	Taxiway A (A1 TO A4): 23 M Surface: Concrete PCN 65/R/C/W/T Taxiway A (A4 TO A5): 23 M Surface: Concrete PCN 72/R/B/W/T Taxiway A (RWY TO A1): 23 M Surface: Concrete PCN 68/R/B/W/T Taxiway B: 23 M Surface: Concrete PCN 38/R/C/W/T Taxiway D: 23 M Surface: Concrete and asphalt PCN Concrete: 25/R/C/W/T Asphalt: 35/F/A/X/T Taxiway E: 23 M Surface: Asphalt PCN 27/F/A/X/T Taxiway F RET: 23 M Surface: Asphalt, Grooved PCN 58/F/A/X/T Taxiway G: 23 M Surface: Concrete PCN 49/R/C/W/T Taxiway TAXILANE J: 22.5 M Surface: Concrete PCN 48/R/B/W/T
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	

EGJJ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Azimuth and Stopping Guidance is provided as follows: Stands 1-13 inclusive: Advanced Visual Docking and Guidance with painted lead-in lines. Stands 15-23: Painted lead-in lines. Stands 1-23: Nose in/pushback system only. Stand 40: Self-manoeuvring. In the event that Azimuth and Stopping Guidance is not available, aircraft must be marshalled on to Stand.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 08/26: Runway designation, runway threshold (08/26), runway centre-line. Taxiway marking aid(s): Taxiway/Taxilane: Taxi holding position.

3	Stop bars and runway guard lights (if any)	LED stop bars at all runway holding points. Jersey Airport operates a 'ring of red' policy and runway holding point stop bars are in permanent operation. Stop bars at all intermediate holds are also used to reinforce taxi clearance limits. Blocking stop bars are located on Taxiway Alpha at the intersections of Taxiways Foxtrot and Golf.
4	Other runway protection measures	
5	Remarks	Two WDI (LGTD): 491233.8258N 0021125.0679W; 491230.7549N 0021201.6186W. Obstacle and boundary markings. “Runway Ahead” markings are painted at each runway holding point. However, these do not conform to pattern A markings as described in CAP 168 and are 2 M in height rather than 4 M in height.

EGJJ AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGJJ1051) 26/APPROACH 08/ TAKE-OFF	CHIMNEY	491240.03N 0021045.38W	324 FT	31 FT	No	
(EGJJ1052) 26/APPROACH 08/ TAKE-OFF	WIND VANE	491239.84N 0021045.28W	317 FT	24 FT	No	
(EGJJ4149) 26/APPROACH 08/ TAKE-OFF	TREE	491239.67N 0021047.22W	322 FT	30 FT	No	
(EGJJ1459) 26/APPROACH 08/ TAKE-OFF	ROAD 4 8M	491238.04N 0021045.79W	304 FT	15 FT	No	
(EGJJ4151) 26/APPROACH 08/ TAKE-OFF	TREE	491237.97N 0021049.79W	307 FT	17 FT	No	
(EGJJ1000) 26/APPROACH 08/ TAKE-OFF	FENCE	491237.58N 0021049.72W	301 FT	10 FT	No	
(EGJJ1010) 26/APPROACH 08/ TAKE-OFF	MONITOR AERIAL	491236.85N 0021045.84W	301 FT	11 FT	No	
(EGJJ4100) 26/APPROACH 08/ TAKE-OFF	TREE	491236.21N 0021042.56W	314 FT	29 FT	No	
(EGJJ4161) 26/APPROACH 08/ TAKE-OFF	TREE	491232.97N 0021027.38W	325 FT	52 FT	No	
(EGJJ4086) 26/APPROACH 08/ TAKE-OFF	TREE	491232.50N 0021027.57W	323 FT	51 FT	No	
(EGJJ1752) 26/APPROACH 08/ TAKE-OFF	MET STATION	491232.48N 0021143.72W	281 FT	9 FT	No	Biral FSM.
(EGJJ1427) 26/APPROACH 08/ TAKE-OFF	FENCE	491230.54N 0021051.20W	291 FT	10 FT	No	
(EGJJ4014) 26/APPROACH 08/ TAKE-OFF	TREE	491230.49N 0021044.93W	303 FT	21 FT	No	
(EGJJ4010) 26/APPROACH 08/ TAKE-OFF	TREE	491230.46N 0021047.61W	299 FT	17 FT	No	
(EGJJ4009) 26/APPROACH 08/ TAKE-OFF	TREE	491230.39N 0021048.58W	300 FT	18 FT	No	
(EGJJ4057) 26/APPROACH 08/ TAKE-OFF	TREE	491229.66N 0021036.15W	320 FT	48 FT	No	
(EGJJ4004) 26/APPROACH 08/ TAKE-OFF	TREE	491229.48N 0021051.53W	299 FT	19 FT	No	
(EGJJ3140) 26/APPROACH 08/ TAKE-OFF	TREE	491229.06N 0021044.33W	297 FT	16 FT	No	
(EGJJ3109) 26/APPROACH 08/ TAKE-OFF	TREE	491228.47N 0021052.16W	291 FT	13 FT	No	
(EGJJ1665) 08/APPROACH 26/ TAKE-OFF	MONITOR AERIAL	491228.40N 0021226.86W	280 FT	12 FT	Yes Red	
(EGJJ1422) 26/APPROACH 08/ TAKE-OFF	FENCE	491228.06N 0021052.80W	287 FT	11 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGJJ1376)	TV MAST	491505.43N 0020752.18W	812 FT	464 FT	Yes Red	
(EGJJ1383)	COMMS MAST	491359.53N 0021138.66W	453 FT	130 FT	No	
(EGJJ1382)	COMMS MAST	491358.80N 0021140.71W	466 FT	143 FT	No	
(EGJJ1380)	SPIRE	491330.32N 0020927.95W	425 FT	93 FT	No	
(EGJJ1001)	SPIRE	491244.69N 0021101.37W	403 FT	122 FT	Yes Red	
(EGJJ4217)	TREE	491242.92N 0021049.85W	357 FT	71 FT	No	
(EGJJ4141)	TREE	491242.69N 0021037.73W	333 FT	43 FT	No	
(EGJJ4145)	TREE	491242.45N 0021040.96W	337 FT	45 FT	No	
(EGJJ3669)	TREE	491240.61N 0021055.26W	333 FT	51 FT	No	
(EGJJ2555)	TREE	491239.91N 0021104.22W	324 FT	47 FT	No	
(EGJJ3265)	TREE	491237.39N 0021102.52W	309 FT	39 FT	No	
(EGJJ4264)	TREE	491236.90N 0021110.13W	308 FT	33 FT	No	
(EGJJ3012)	ANEMOMETER	491234.10N 0021124.69W	315 FT	36 FT	Yes Red	Co-located Biral FSM.
(EGJJ2584)	GP MAST	491233.96N 0021121.09W	316 FT	41 FT	Yes Red	
(EGJJ1350)	EP	491232.85N 0021032.91W	300 FT	27 FT	No	
(EGJJ3013)	ANEMOMETER	491230.54N 0021205.39W	304 FT	36 FT	Yes Red	Co-located Biral FSM.
(EGJJ2649)	GP MAST	491230.16N 0021206.89W	305 FT	36 FT	Yes Red	
(EGJJ4034)	TREE	491225.71N 0021045.47W	320 FT	43 FT	No	

EGJJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	JERSEY MET
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	JERSEY MET 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Telephone consultation: Primary Contact: +44 (0)1534-448765, Secondary Contact: +44 (0)7797-832402.
6	Flight documentation Language(s) used	METARs, TAFs, Local Area Low Level Flight info. English.
7	Charts and other information available for briefing or consultation	MET satellite, Weather radar and lightning location pictures, 214/215, Upper winds, analysed surface charts.
8	Supplementary equipment available for providing information	ATIS and Internet site.
9	ATS units provided with information	JERSEY
10	Additional information (limitation of service, etc.)	Internet site: http://www.gov.je/Weather. ATIS: +44 (0)1534-446301.

EGJJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
08	082.74°	1705 x 45 M	RWY surface: Concrete and asphalt, Grooved PCN 52/R/A/W/T Concrete and PCN 34/F/ A/X/T Grooved Asphalt	491225.44N 0021221.94W 160.0 FT	THR 270.8 FT TDZ 274.6 FT	
26	262.76°	1705 x 45 M	RWY surface: Concrete and asphalt, Grooved PCN 52/R/A/W/T Concrete and PCN 34/F/ A/X/T Grooved Asphalt	491231.80N 0021105.66W 160.0 FT	THR 271.6 FT TDZ 277.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	183 x 150 M	1825 x 280 M	298 x 150 M -			RWY 08 Threshold displaced by 57 M.
	824 x 150 M	1825 x 280 M	90 x 90 M -	An arrestor bed constructed of aggregate lies partially within the Runway 26 overrun RESA. The arrestor bed is 30 M long by 60 M wide and abuts the 08 LOC array.		RWY 26 Threshold displaced by 91 M.

EGJJ AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	1705 M	1888 M	1705 M	1648 M	
26	1648 M	2472 M	1648 M	1556 M	TORA/TODA/ASDA declared for both Alpha 1 and Golf.
08	1301 M	1484 M	1301 M		Take-off from Intersection of Hold Delta.
26	1133 M	1699 M	1133 M		Take-off from Intersection of Hold Foxtrot.

EGJJ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08	Centre-line with crossbar 165 M from threshold 165 M Light intensity high	Green Light intensity high With green wingbars	PAPI Both/3° 55 FT 325 M. Distance measured from North set of PAPIS.		Colour coded 1645 M 15 M spacing Light intensity high	HI Elev bi-directional LI Elev omni-directional 1645 M 60 M spacing White	Red		Approach: Operators attention is drawn to EU ops (NEW) subpart E All weather operations appendix 1 (NEW) to ops 1.430 paragraph (d)8 Aerodrome Operating Minima. The approach light system for Runway 08 is restricted due to terrain, however there is a single cross bar at 165 M. Therefore EU-OPS operators at the discretion of the certifying authorities may consider lighting on 08 as a Basic Approach Lighting System (BALS). Operators are advised to approach their respective authority with regard to calculating RVR minimum. THR: Non-standard 4 No. omnidirectional red end lights, positioned to determine the extremity of the runway that is available for manoeuvring aircraft. Two runway threshold identification light system fittings are located at the outer extremities of the 08 threshold wingbars. To avoid dazzling, the fittings have three levels of brightness; 100%, 30% and 10%.
26	Coded centre-line with five crossbars. 914 M Light intensity high	Green Light intensity high With green wingbars	PAPI /3° 55 FT 306 M		Colour coded 1554 M 15 M spacing Light intensity high	HI Elev bi-directional LI Elev omni-directional 1554 M 60 M spacing White	Red		THR: Non-standard 4 No. omnidirectional red end lights from Runway 26, positioned to determine the extremity of the runway that is available for manoeuvring aircraft.

EGJJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Runway 08: Anemometer (LGTD) 491230.5378N 0021205.3920W; Runway 26: Anemometer (LGTD) 491234.0965N 0021124.6930W.

3	TWY edge and centre line lighting	CL: Centre-line lighting on all taxiways/taxilanes with the exception of Taxiways Delta, Echo, Golf and Mike. Green centre-line lighting on Taxiway B to Runway 08, green centre-line lighting on Taxiway A to Runway 26 at holding point A1 only. No green centre-line lighting to holding point G. EDGE: Blue edge to link taxiways/taxilanes and apron.
4	Secondary power supply/switch-over time	Yes/under 1 second.
5	Remarks	Apron floodlights. Obstacle lighting.

EGJJ AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGJJ AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
CHANNEL ISLANDS CTR NORTH 500000N 0020000W - 494951N 0030000W - 500000N 0030000W following the line of latitude to - 500000N 0020000W	Upper limit: FL80 Lower limit: SFC	D	JERSEY CONTROL English	5000 FT		
CHANNEL ISLANDS CTR SOUTH 500000N 0020000W - 493000N 0020000W - 490200N 0014000W following the line of latitude to - 490200N 0030000W - 494951N 0030000W - 500000N 0020000W	Upper limit: FL80 Lower limit: SFC	D	JERSEY CONTROL English	5000 FT		
JERSEY ATZ A circle, 2 NM radius, centred at 491229N 0021144W on the notified mid-point of the longest runway (08/26) in accordance with the Air Navigation (Jersey) Law 2014.	Upper limit: 2000 FT AGL Lower limit: SFC	D	JERSEY CONTROL English	5000 FT		

EGJJ AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	JERSEY APPROACH	118.555 DOC 25 NM/ 10,000 FT.			0545-2100 (0445-2030); and by arrangement.	
		120.305 DOC 25 NM/ 10,000 FT.			0545-2100 (0445-2030); and by arrangement.	
		121.500 Emergency frequency.			0545-2100 (0445-2030); and by arrangement.	
TWR	JERSEY GROUND	121.905 DOC 2 NM/GND. GMC will be notified on ATIS.			As directed by ATC.	ATZ hours coincident with Approach hours.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
	JERSEY TOWER	119.455 DOC 25 NM/4,000 FT.			0515-2100 (0415-2030); and by arrangement.	
ATIS	JERSEY INFORMATION	134.680 DOC 60 NM/ 20,000 FT.			0545-2100 (0445-2030).	Tel: 01534-446301 for ATIS message.
OTHER	JERSEY FIRE	121.600 Non-ATS frequency. DOC 2 NM/GND			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	JERSEY CONTROL	120.450 To be used in the event of failure of communications on 125.205 MHz.			0545-2100 (0445-2030); and by arrangement.	DOC 4900N00100W - 4834N00205W - 4920N00400W - 5015N00400W - 5015N00145W - 4935N00100W / 25,000 FT.
		125.205 CTR and Airway Channel.			0545-2100 (0445-2030); and by arrangement.	

EGJJ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.84°E (2027)	IJJ	110.900 MHz	HO	491233.70N 0021042.71W		(RWY 08) 457 M from THR 26.
ILS/GP	IJJ	330.800 MHz	HO	491230.15N 0021206.92W		3° ILS Ref Datum Hgt 52 FT.
ILS/LOC I 0.83°E (2027)	IDD	110.300 MHz	HO	491224.79N 0021229.78W		(RWY 26) 161 M from THR 08.
ILS/GP	IDD	335.000 MHz	HO	491233.97N 0021121.07W		3° ILS Ref Datum Hgt 52 FT.
VOR/DME 0.88°E (2027) 0.65°W (2020)	JSY	59X 112.200 MHz	H24	491315.98N 0020246.12W	276 FT	Located 5.5 NM from THR 26.
NDB (L) 0.82°E (2027)	JW	329.000 kHz	HO	491221.29N 0021311.73W		0.5 NM from THR 08 Range 25 NM.
ILS/DME	IDD	40X 110.300 MHz	HO	491233.80N 0021121.07W	295 FT	(RWY 26) DME freq paired with ILS I-DD only. Zero range is indicated at THR of Runway 26 only.
ILS/DME	IJJ	46X 110.900 MHz	HO	491229.99N 0021206.84W	289 FT	(RWY 08) On AD. DME freq paired with ILS I-JJ only. Zero range is indicated at THR of Runway 08 only.

EGJJ AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Channel Islands CTR.
b) All aircraft using Jersey Airport and its facilities are required to have third party liability insurance cover in the sum of at least £1,000,000. Proof of this insurance should be available for inspection at any time whilst the aircraft is at Jersey Airport.

c) If visiting general aviation aircraft are parked on a remote stand, ie: not the Aero Club or Gama Aviation apron, the crew and passengers must remain with their aircraft until transport is provided by the relevant handling agent.
d) All aircrew whilst airside, are required to wear high visibility clothing at all times. Aircrew wearing high visibility clothing must escort passengers (not wearing high visibility clothing) to and from their aircraft. Pilots in charge of aircraft are responsible for ensuring that their crew and passengers comply with these requirements.
e) All flights except for General Aviation and Military aircraft, are subject to prior notification to ACL slot co-ordination. All requests should be made by e-mail to LONACXH@acl-uk.org.
f) Pilots requiring picketing and tying down of their aircraft must contact their handling agent.
g) Pilots who have filed IFR flight plans are requested to contact ATC for their air traffic control clearance 10 minutes prior to requested start.
h) Minimum submission time for ATC flight plan processing is 1 hour. Pilots are required to check relevant NOTAM for PPR requirements. Additional guidance and information regarding VFR flight within the Channel Islands CTR can be found online at www.cicz.co.uk.
i) Civilian formation flight under Special VFR is prohibited in the Channel Islands CTR. Civilian VFR formations are not permitted to land or take-off in formation without the express permission of the Airport Director; this may be obtained from Jersey ATC.
j) Commercial and corporate aircraft operators and/or handling agents are required to ensure they have appropriate tow bars/tugs and spare wheels on site for aircraft if they intend to operate at Jersey Airport.
k) Aerodrome Control Service may be provided from the remote tower facility for either contingency or training purposes. When the remote tower is in operation for contingency purposes, aircraft suffering a radio failure should look for light signals from the Fire Station abeam Taxiway Alpha. Times of operation of the remote tower and information regarding the provision of light signals will also be transmitted via ATIS.
l) PPR for all 8.33 kHz exempt State Aircraft. Contact Jersey ATC Supervisor, Tel: +44 (0)1534-446086.
m) Aircraft registered in any country other than the United Kingdom and its Territories and Dependencies intending to conduct commercial operations will need to apply for a Foreign Carrier Permit. Application forms are available on the Office of the Director of Civil Aviation for the Channel Islands website https://www.cidca.aero.
n) APU usage:

i. The hierarchy for the selection of power supply whilst an aircraft is on stand is as follows:

1. FEGP - to be used whenever supplied and serviceable. (Stands 1-13 have FEGP units fitted, providing either 400Hz or 28V DC).
2. GPU - to be used when FEGP is not supplied, or the unit is unserviceable.
3. APU - only to be used when neither FEGP or GPU is supplied or both units are unserviceable.

ii. Regardless of the availability of external auxiliary power sources, no aircraft is permitted to run an APU for greater than the times stipulated below. (For the avoidance of doubt, the term APU within this policy includes the use of 'Hotel Mode'.)
iii. Operation of the APU.

1. Any use of the APU must be in strict compliance with the hierarchy above.
2. No APU shall be left running unless a qualified person is in attendance.
3. Outside of Airport Opening Hours APUs shall not be run without he prior approval of the Head of Aerodrome Operations.

iv. Departure Procedure: The APU is not to be started more than 15 minutes before STD.
v. Arrival Procedure: The APU should be shut down at the earliest opportunity after arriving on stand, and in any event no longer than 10 minutes after arriving on stand.
vi. Exemptions to the APU Departure and Arrival procedures:

1. When the external temperature is below 5°C or above 20°C, as stated on ATIS, and PCA is not available, restrictions relating to departing aircraft may be extended so that the APU can be started not in excess of 30 minutes before STD.
2. General Aviation aircraft which require additional start-up time for operational reasons, the restriction relating to departing aircraft may be extended so that the APU can be started not more than 30 minutes before STD.

vii. Requests for temporary exemptions to the policy outlined above should be made to Head of Aerodrome Operations on +44 (0)1534-446008.

2 GROUND MOVEMENT

a) ATC are responsible for engine start-up and push-back/taxi clearance.
b) For safety and security reasons, all aircrew must be transported to/from their aircraft by handling agent.
c) Apron Layout:

i. The arrangement of the main apron, pier, aircraft stands and guidance lines are shown on page AD 2-EGJJ-2-2.
ii. Pilots are required to request permission from ATC to 'push-back' from nose-in stands and on initial call should give the location of the aircraft.
iii. The minimum taxilane width between J1 and J3 is 45 M. 22.5 M either side of centre-line.
iv. Stand sizes vary between 49.5 M and 41.5 M long. Stand widths vary between 42 M and 29.2 M.

d) Pilots must exercise caution when manoeuvring due to rutted ground. When the grass is wet, pilots must be extra vigilant because the ground will be soft in places and liable to be slippery. Also during wet conditions, pilots must exercise extreme caution when manoeuvring on the grass at the east end of the Aero Club access track as this area can be very wet and muddy.
e) The (block paved) access track from the east of Holding point Hotel to the grass parking area at the Aero Club has not been formally designated by the Airport Authority as a taxiway. The access track does not comply with the criteria for a taxiway contained in CAP 168. Therefore, the painted centre-line is only provided for assistance and does not offer the usual clearances either side of the access track that would normally be associated with a taxiway. It is most important that pilots exercise caution when using this access track to ensure that they have suitable wing tip clearance on each side.

f) Apron Areas:

i. All areas south of holding point Hotel, south of holding point Mike and east of holding point Juliet 3 have been designated as apron;
ii. The responsibility for the use of, including the suitability of these areas for both the transit and the parking of aircraft remains with the aircraft commander at all times. Any Surface Markings within these areas are for general guidance purposes only and may not conform to international certification standards including taxiway minimum separation distances;
iii. All aircraft wishing to depart from these areas (Gama Aviation, JAL and the Aero Club) must call ATC for start up and taxi clearance;
iv. All aircraft movements remaining wholly within the confines of these designated areas (Gama Aviation, JAL and the Aero Club) may be conducted solely at the commander's discretion, ATC may be contacted for assistance if required.

g) Pilots must exercise caution when approaching Runway 26 holding points. The proximity of Holding Points A1, G and a blocking stop bar may cause confusion. No green centre-line lighting exists on Taxiway Golf.

3 CAT II/III OPERATIONS

a) Jersey Airport is not equipped for CAT II/III operations, however Low Visibility Procedures are used to protect CATI and LTS CATI operations.
b) When ATC notifies Low Visibility Procedures:

i. Taxiway Echo is not available as a runway exit.
ii. Intermediate taxiway stopbars will be used to reinforce taxi clearance limits.
iii. **Runway 08 Arrivals**
Arriving traffic on Runway 08 will vacate the runway via Rapid Exit Taxiway Foxtrot or at the runway end via Taxiway Alpha. Pilots will report Runway vacated after passing the yellow/green section of the taxiway centre-line lighting and will notify ATC of the exit used.
iv. **Runway 26 Arrivals**
Arriving traffic on Runway 26 will vacate the runway at the runway end via Taxiway Bravo and report vacated after passing the yellow/green section of centre-line lighting. Taxiway Delta may be available on request.
v. **Runway 26 Departures**
Departing traffic on Runway 26 should follow the green centre-line lights to Holding Point A1. There are no green centre-line lights on Taxiway Golf.

4 WARNINGS

a) Pilots may experience turbulence and variable wind conditions caused by nearby cliffs on final approach and landing on Runway 08. Some directional control difficulties can be experienced in strong crosswinds from the southeast and southwest due to the effects of the wake from the aerodrome buildings. Pilots are also advised that blasting takes place adjacent to the aerodrome at quarries bearing 042°(T), 1.36 NM from the ARP. Blasting operations may take place infrequently Mon-Fri 0730-0745 (0630-0645). At these times turbulence may be experienced in this vicinity particularly by light aircraft.
b) The distance between the centreline of the runway and the centreline of taxiways does not conform to the recommendation of ICAO Annex 14. The distance between the runway and Taxiway Alpha varies from 168 M to 95 M, and between the runway and Taxiway Bravo between 297 M and 101 M.
c) Aircraft taxiing to holding points for either runway may be restricted by aircraft holding at intermediate link taxiways and may not always have sufficient clearance to proceed.
d) Floodlighting of Mount Orgeuil Castle may take place between SS - 2359 (2259). Extraneous light from the floodlight mounted on Gorey Pier, approximately 1.5 miles south of the 'JSY' VOR, shining in a northeasterly direction, may be visible to aircraft where the beam intersects the 26 ILS approach centre-line at a point approximately 9 miles from touchdown. This light may also be visible from various points of the holding pattern of the 'JSY' VOR at low altitudes.
e) Skydiving may take place all year round, except Christmas Day, during airport hours, over St. Aubin's Bay (491141N 0020900W) from surface to FL 110 and exceptionally up to FL 190. Jersey ATC may temporarily re-classify a portion of the Channel Islands TMA (by NOTAM) radius 10 NM centred on Jersey Aerodrome Reference Point as Class D Airspace to permit this activity.
f) Lethal bird control methods including the use of firearms may take place all year round during aerodrome published opening hours.
g) Model Aircraft flying takes place at the Les Landes Model Aerodrome (491500N 0021520W), approximately 2.5 NM NW of ARP up to 400 FT AGL and occasionally up to 1000 FT AGL. ATC will notify pilots of known model aircraft activity above 400 FT AGL which may affect their flights. (This may be via ATIS message).
h) Model Aircraft Glider flying may take place at various coastal locations up to 400 FT AGL.
i) Paraglider and Hang-Glider activity takes place in VMC conditions during daylight hours at designated coastal locations as follows:

i. L'Etacq – Approximately 2.5 NM NW of ARP up to 500 FT QNH.
ii. Plemont – Approximately 3 NM NNW of ARP in the vicinity of the Les Landes Racecourse (VRP) up to 500 FT QNH.
iii. La Pulente – Approximately 2 NM SW of ARP up to 500 FT QNH.
iv. Greve de Lecq – Approximately 2.5 NM N of ARP up to 500 FT QNH.
v. Bonne Nuit – Approximately 3 NM NE of ARP in the vicinity of the Fremont TV Mast (VRP) up to 600 FT QNH.
vi. Bouley Bay – Approximately 4 NM ENE of ARP up to 600 FT QNH.
vii. Noirmont Point – Approximately 2 NM SSE of ARP up to 500 FT QNH.
viii. Portelet – Approximately 2 NM S of ARP up to 500 FT QNH.
ix. La Moye – Approximately 2 NM SSW of ARP up to 500 FT QNH.
x. Gorey – Approximately 6.5 NM E of ARP up to 500 FT QNH.

ATC will notify pilots of known activity within these sites which may affect their flights (This may be via ATIS message).

j) Sites are administered by the Jersey Hang Gliding and Paragliding Club (JHPC). Visiting pilots wishing to use these sites are required to be fully briefed by the JHPC as to the conditions imposed on hang gliding and paragliding operations.

5 HELICOPTER OPERATIONS

a) Helicopters are to use the main runway for all arrivals and departures as no specific helicopter landing area exists.
b) Helicopters with a MTOW 1400 KG or less may be handled by the Jersey Aero Club and parked on the grass area at the Aero Club, southwest of Holding Point Hotel, space permitting. Helicopters with a MTOW in excess of 1400 KG must be handled by Gama Aviation and parked on the GAMA or Eastern Apron.
c) Handling must be pre-booked either with the Jersey Aero Club, email: info@jerseyaeroclub.com, Tel: +44 (0)1534-743990 or Gama Aviation. Tel: +44 (0)1534-496496 as appropriate.

6 USE OF RUNWAYS

a) In accordance with EU OPS Subpart E the following approach operations are available to approved operators:

   i. Runway 08 suitable for Lower than Standard Category I and Enhanced Vision System (EVS) operations supported by an ILS Classification of I/T/3;
   ii. Runway 26 suitable for Lower than Standard Category I and Enhanced Vision System (EVS) operations supported by an ILS Classification of I/T/3.

b) Operators shall inform ATC when they intend to fly a Lower Than Standard Category I or EVS approach in order that the required safeguarding can be ensured. Practice Lower Than Standard Category I or EVS approaches will not be afforded safeguarding;
c) Operators attention is drawn to the likelihood that the local terrain on final approach to both Runway 26 and Runway 08 is considered to be challenging for radio altimeters and auto-land procedures.
d) Operators attention is drawn to the possibility of Localiser signal fluctuations due to the proximity of the Runway 26 localiser array to the runway. Landing aircraft vacating Runway 26 via Taxiway Bravo should endeavour to keep the aircraft in continuous motion until passing Bravo 1.
e) When back tracking is necessary, aircraft greater than 28,000 KG MTOW should make all turns greater than 90 degrees on the concrete runway ends only.

7 TRAINING

a) All flight training MUST be booked in advance with the Jersey ATC Supervisor. Tel +44 (0)1534-446086. Submission of a FPL does not constitute a request for training.
b) Military flight training restricted to between 0900-1900 (0800-1800).

8 OPERATION OF ADVANCED SURVEILLANCE SYSTEM

a) To cooperate with the Mode-S based Advanced Surveillance System, aircraft operators intending to use Jersey airport should ensure that the Mode S transponder is able to operate when the aircraft is on the ground.
b) Pilots shall:

   i. Select AUTO mode and the assigned Mode A code.
   ii. If AUTO mode is not available, select ON (e.g. XPDR) and the assigned Mode A code:

   - From the request for towed push-back or taxi, whichever is earlier.
   - After landing, continuously until the aircraft is fully parked in its stand.
   - When the aircraft is fully parked, they shall select standby.

c) Whenever the aircraft is capable of reporting Aircraft Identification (i.e. call sign used in flight), this should be entered (through the FMS or the Transponder Control Panel) at the time of the request for towed push-back or taxi, whichever is earlier.
d) Air crew must use the ICAO defined format to enter the Aircraft Identification.
e) To ensure that the performance of systems based on SSR frequencies (including airborne TCAS units and SSR radars) is not compromised, TCAS should not be selected before receiving clearance to line up and should be deselected after vacating the runway.

EGJJ AD 2.21 NOISE ABATEMENT PROCEDURES

a) The following Noise Preferential Routeings and Procedures will apply to all aircraft taking off, landing or going around from this airport and will apply in both VMC and IMC unless otherwise instructed by ATC.
b) Propeller Driven Aircraft and Helicopters:

   i. Runway 26 – Take-off – VFR/SVFR - Climb straight ahead to a minimum of 800 FT AMSL (523 FT AAL) before turning and climb as rapidly as is compatible with safety to not less than 1000 FT AMSL (723 FT AAL).
   ii. Runway 26 – Take-off – IFR - Climb straight ahead to a minimum of 900 FT AMSL (623 FT AAL) before turning.
   iii. Runway 26 – Landing – Maintain at least 1300 FT AMSL (1023 FT AAL) until intercepting the ILS glidepath or PAPI indication and thereafter descend on the facility. If under 5700 KG and making a visual approach, land must not be overflown below 800 FT AMSL (523 FT AAL) until on final approach.
   iv. Runway 08 – Take-off – VFR/SVFR - Climb straight ahead to a minimum of 800 FT AMSL (523 FT AAL) before turning and climb as rapidly as is compatible with safety to not less than 1000 FT AMSL (723 FT AAL).
   v. Runway 08 – Take-off – IFR - Climb straight ahead to a minimum of 900 FT AMSL (623 FT AAL) before turning.
   vi. Runway 08 – Landing – Maintain at least 1300 FT AMSL (1023 FT AAL) until intercepting the ILS glidepath or PAPI indication and thereafter descend on the facility. If under 5700 KG and making a visual approach, land must not be overflown below 800 FT AMSL (523 FT AAL) until on final approach.

vii. Wherever possible pilots should avoid overflying the island below 1000 FT AGL.
viii. Circuit Altitude - Whenever cloud base permits, aircraft should maintain the following altitudes and make the majority of the circuit over the sea:

- Standard circuit altitude for propeller driven aircraft is 1300 FT AMSL (1023 FT AAL).
- Standard circuit altitude for turbo-jet aircraft is 1800 FT AMSL (1523 FT AAL).

c) Turbo-Jet Aircraft:

The Noise Abatement Zone for turbo-jet aircraft covers the whole island and extends for 5 NM beyond the coastline. Noise technique reduced power should be maintained until clear of the Noise Abatement Zone.

i. Runway 26 – Take-off – Climb straight ahead to a minimum of 1800 FT AMSL (1523 FT AAL) before turning.
ii. Runway 26 – Landing – Maintain 1800 FT AMSL (1523 FT AAL) until intercepting the ILS glidepath or PAPI indication and thereafter descend on the facility.
iii. Runway 08 – Take-off – Climb straight ahead to a minimum of 1800 FT AMSL (1523 FT AAL) before turning.
iv. Runway 08 – Landing – Maintain 1600 FT AMSL (1323 FT AAL) until intercepting the ILS glidepath or PAPI indication and thereafter descend on the facility.

d) The Noise Preferential Routeings and Procedures are supplementary to the noise abatement take-off techniques as used by piston-engined, turbo-prop and turbo-jet aircraft.
e) All aircraft departing from Runway 26 at Jersey and routeing to the south of the airport under VFR, must climb straight ahead to 800 FT AMSL (523 FT AAL) before turning left and must route via Corbiere lighthouse (4911N 00215W). Thereafter as much of the flight as practicable must be conducted over the sea.
f) Chapter two aircraft are not permitted to use Jersey Airport unless the operator has specific prior permission from the Airport Authority.
g) The use of this airport outside published hours will be subject to the approval of the Airport Authority.
h) Testing of pure jet engines will not be permitted outside of normal hours without the prior permission of the Airport Authority, Tel: 07797-718688.
i) Any pure jet aircraft using this airport shall, except in extenuating circumstances, satisfy the airport authority that the type of aircraft to be flown into and out of this airport shall be operated in a manner calculated to cause the minimum disturbance practicable.
j) Every pure jet aircraft using this airport shall, after take-off, be operated in such a way that it will not cause more than 110 PNdB by day (day is defined as 0700-2230 (0600-2130) for this purpose) or 102 PNdB by night (night is defined as 2230-0700 (2130-0600) for this purpose).
k) Every pure jet aircraft using the airport shall after take-off maintain, a rate of climb of at least 500 FT per minute, at power settings which will ensure progressively decreasing noise levels at points on the ground under the flight path beyond the monitoring point.
l) These requirements may at any time be departed from to the extent necessary for avoiding immediate danger.

EGJJ AD 2.22 FLIGHT PROCEDURES

1 CARRIAGE AND OPERATION OF SSR TRANSPONDERS

a) The carriage and operation of SSR transponder equipment with the minimum following capability is mandatory when flying within the Channel Islands CTR, CTA or TMA:

i. When operating as a VFR or Special VFR Flight - Mode A 4096 codes;
ii. when operating under IFR - Mode A 4096 codes and Mode C with altitude reporting capability.

b) Exemptions from the requirements may be given in the following circumstances:

i. For notified agreed events such as air rallies, etc. applications for exemption must be made in writing to the Head of Air Navigation Services - Air Traffic Control, Jersey Airport, Channel Islands, (email atcsupervisor@ports.je) at least one calendar month before the event;
ii. For short notice exemptions, applications must be made to the Watch Supervisor, Jersey Airport (+44 (0)1534-446086) giving full details. Such exemptions will not normally be granted unless it is considered that exceptional circumstances exist.

c) Transponder operating procedures are detailed at ENR 1.6, section 2 inclusive of procedures to be followed in the event of transponder failure.

2 RADAR SERVICE

a) Jersey ATC provides Radar Control Service to all aircraft within the Channel Islands CTR, CTA and TMA.

3 RADIO COMMUNICATION FAILURE PROCEDURES

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1.

4 ADJACENT FIRS

a) The attention of pilots proceeding to or from the Channel Islands CTR, CTA or TMA via the adjacent FIRs of London and Brest is drawn to the differences in the regulations of those regions relating to IFR/VFR Flights.

5 PROCEDURES FOR INBOUND AIRCRAFT

a) The standard routes for IFR aircraft inbound to Jersey are at AD 2-EGJJ-7-1/2 these however, may be varied at the discretion of ATC.

6 VFR FLIGHT

a) A flight plan must be filed for all flights within and intending to transit the Channel Islands CTR.
b) VFR clearance to operate within the Jersey ATZ will not be granted to aircraft if the reported visibility is less than 5 KM or the reported cloud ceiling is less than 1500 FT in accordance with Standardised European Rules of the Air SERA.5001.
c) Pilots must note that the Channel Island Director of Civil Aviation has not adopted the SERA derogations issued by the United Kingdom, and therefore they do not apply in Channel Island Airspace.
d) Pilots flying VFR or Special VFR between Jersey and the UK South Coast (Bournemouth, Southampton, Isle of Wight areas), should expect to route via Cap de La Hague (VRP) on the French Coast. Pilots should exercise caution with regard to the Prohibited Areas at Cap Flamanville and Cap de La Hague.
e) Aircraft shall be given a radar service whilst within Channel Islands Airspace. It is the responsibility of the pilot to comply with minimum VMC criteria in accordance with SERA. Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
f) VFR Flights may be subject to delay when they cannot be fitted readily into the main traffic flow. Pilots should, therefore, always ensure that they have adequate fuel reserves and are able to divert to alternate aerodrome if necessary.

7 SPECIAL VFR FLIGHT

a) Prior Permission

   i. A flight plan must be filed for all Special VFR flights in the Channel Islands CTR.
   ii. Special VFR clearances for flights within the Channel Islands CTR may be requested and will be given whenever traffic conditions permit. These flights are subject to the general conditions laid down for Special VFR Flights in SERA.5010.
   iii. The use of Special VFR clearances is intended to be limited to light aircraft which cannot comply with full IFR requirements and wish to proceed to or from an aerodrome within, or to transit the Channel Islands CTR.

b) Special Routes

   i. Aircraft operating in accordance with Special VFR will normally be cleared via the published VRPs or on tracks to/from adjacent aerodromes or navigation aids, or as per flight planned route.
   ii. Special VFR may be subject to delay when they cannot be fitted readily into the main traffic flow. Pilots should, therefore, always ensure that they have adequate fuel reserves and are able to divert to alternate aerodrome if necessary.

c) Weather Minima

   i. Aircraft shall be given a radar service whilst within the Channel Islands CTR. It is the responsibility of the pilot to remain at all times clear of cloud and in sight of the surface. Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
   ii. Special VFR clearance to operate within the Jersey ATZ will not be granted to a fixed wing aircraft if the reported visibility is less than 1500 M or the reported cloud ceiling is less than 600 FT.
   iii. Special VFR clearance to operate within the Jersey ATZ for the purpose of proceeding to or from Jersey Airport will not be granted to a helicopter if the reported visibility is less than 800 M or the reported cloud ceiling is less than 600 FT.

d) Pilots must note that the Channel Island Director of Civil Aviation has not adopted the SERA derogations issued by the United Kingdom, and therefore they do not apply in Channel Island Airspace.
e) The Channel Island Director of Civil Aviation has approved the issue of Special VFR clearances at night.

8 SARK RESTRICTED AREA

a) Pilots are to note that flight is not permitted at a height of less than 2000 FT AGL within 3 NM of 492546N 0022145W on the Island of Sark (EGR095) except with the permission of the Channel Islands Director of Civil Aviation or from Guernsey ATC as necessary.

9 VISUAL CIRCUIT PROCEDURES

a) Compliance with the Noise Abatement Requirements at AD 2.21.
b) All circuits will be to the south of the aerodrome unless advised by ATC.
c) Wherever possible the majority of the circuit shall be carried out over the sea.
d) Standard circuit altitude for propeller driven aircraft is 1300 FT AMSL (1023 FT AAL).
e) Standard circuit altitude for turbo-jet aircraft is 1800 FT AMSL (1523 FT AAL).
f) Visual circuits will not be permitted when the cloud ceiling is lower than 600 FT AAL.

10 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

11 PROCEDURES OUTSIDE THE CHANNEL ISLANDS CONTROL ZONE

a) Pilots operating outside of Channel Islands Airspace who are in contact with Jersey ATSU will be provided with an Alerting Service.
b) Pilots are reminded that aircraft in transit to or from Channel Islands Airspace may not be flying in accordance with the semi-circular rule.
c) For transit of the Plymouth/Portland Danger Areas to the north of Channel Islands Airspace, a SUACS may be available as detailed in ENR 5.1 of the UK AIP.
d) Arriving flights should make contact with Jersey ATC at least 10 minutes prior to reaching the boundary of Channel Islands Airspace to obtain a clearance to enter CAS.
e) Pilots are reminded that airspace to the north of N50° (London FIR) is subject to London ACC, and airspace to the south (Brest FIR) is subject to Rennes Approach/Info or Iroise Approach. It is the responsibility of pilots to acquaint themselves with the requirements of the respective UK and French authorities.

12 OMNIDIRECTIONAL DEPARTURES

a) Only available with ATC clearance.

Omnidirectional Departures		
Runway	**Description**	**Restrictions**
08	Climb straight ahead on track 083° M to 900 FT AMSL (623 FT AAL), then turn on track climbing to en-route safety altitude or in accordance with ATC Clearance. PDG 3.3%	Close-in obstacles exist. See Aerodrome Obstacle Chart and EGJJ AD 2.10 Aerodrome Obstacles. This procedure does not take account of noise abatement procedures which may require climb to a higher level. See EGJJ AD 2.21 for Noise Abatement Procedures.
26	Climb straight ahead on track 263° M to 900 FT AMSL (623 FT AAL), then turn on track climbing to en-route safety altitude or in accordance with ATC Clearance. PDG 3.3%	Close-in obstacles exist. See Aerodrome Obstacle Chart and EGJJ AD 2.10 Aerodrome Obstacles. This procedure does not take account of noise abatement procedures which may require climb to a higher level. See EGJJ AD 2.21 for Noise Abatement Procedures.

13 FLIGHT PLANS

a) See ENR 1.11.

EGJJ AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGJJ AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGJJ-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGJJ-2-2
CHANNEL ISLANDS CONTROL ZONE - VISUAL REFERENCE POINTS (VRPs)
AD 2.EGJJ-3-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGJJ-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08/26 LUSIT 1A 1B DIN 3A 2B ORVAL 1A 1B - ICAO
AD 2.EGJJ-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08/26 ORTAC 3A 2B BENIX 5A 3B - ICAO
AD 2.EGJJ-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08/26 SKERY 3A 2B OYSTA 2B - ICAO
AD 2.EGJJ-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08/26 LERAK 2A 2B TUNIT 3A 2B - ICAO
AD 2.EGJJ-6-4
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08/26 ORIST 1C 1D - ICAO
AD 2.EGJJ-6-5
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 08 ORIST 1D RWY 26 ORIST 1C
AD 2.EGJJ-6-6
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 08 ORTAC 1K TUNIT 1K SKERY 1K BIGNO 1K LELNA 1K - ICAO
AD 2.EGJJ-7-1
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 08 BEVAV 1K LERAK 1K - ICAO
AD 2.EGJJ-7-2

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 26 ORTAC 1J LELNA 1J - ICAO
AD 2.EGJJ-7-3
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 26 TUNIT 1J SKERY 1L 1J BIGNO 1L 1J - ICAO
AD 2.EGJJ-7-4
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 26 BEVAV 1J MINQI 1J LERAK 1J - ICAO
AD 2.EGJJ-7-5
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 08 - ICAO
AD 2.EGJJ-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 08 - ICAO
AD 2.EGJJ-8-2
INSTRUMENT APPROACH CHART RNP RWY 08 - ICAO
AD 2.EGJJ-8-3
INSTRUMENT APPROACH CHART VOR/DME RWY 08 - ICAO
AD 2.EGJJ-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 08 - ICAO
AD 2.EGJJ-8-5
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 26 - ICAO
AD 2.EGJJ-8-6
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 26 - ICAO
AD 2.EGJJ-8-7
INSTRUMENT APPROACH CHART RNP RWY 26 - ICAO
AD 2.EGJJ-8-8
INSTRUMENT APPROACH CHART VOR/DME RWY 26 - ICAO
AD 2.EGJJ-8-9
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 26 - ICAO
AD 2.EGJJ-8-10
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 08
AD 2.EGJJ-8-11
SBAS FAS DATA BLOCK CODING DATA - RNP RWY 08
AD 2.EGJJ-8-12
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 26
AD 2.EGJJ-8-13
SBAS FAS DATA BLOCK CODING DATA - RNP RWY 26
AD 2.EGJJ-8-14

EGJJ AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

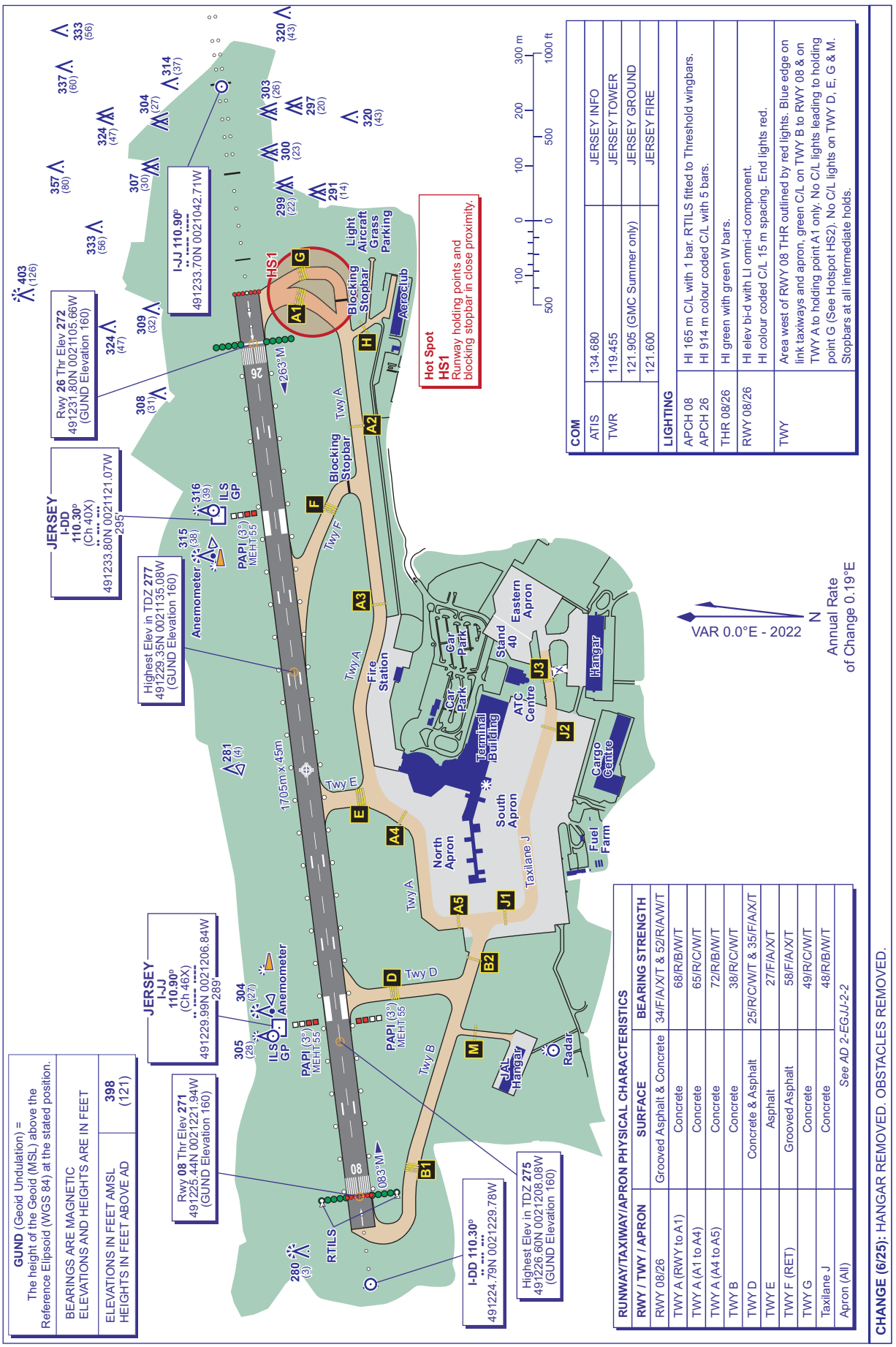
Not applicable

AERODROME CHART - ICAO

JERSEY EGJJ

ARP 491229N 0021144W

AD ELEV 277FT



AERO INFO DATE 18 MAR 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 491229N 0021144W

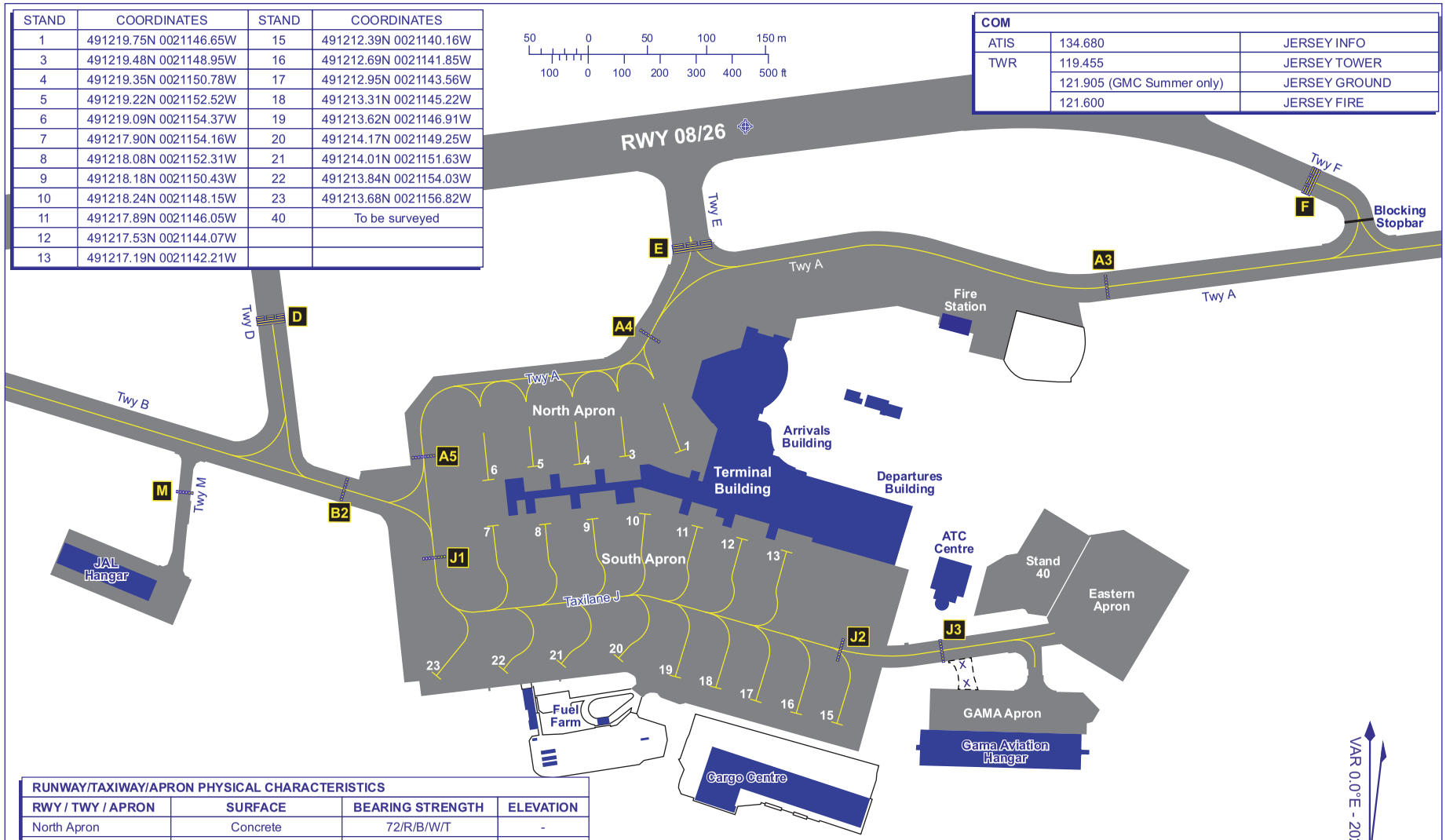
AD ELEV 277FT

JERSEY
EGJJ

AERO INFO DATE 18 MAR 25

STAND	COORDINATES	STAND	COORDINATES
1	491219.75N 0021146.65W	15	491212.39N 0021140.16W
3	491219.48N 0021148.95W	16	491212.69N 0021141.85W
4	491219.35N 0021150.78W	17	491212.95N 0021143.56W
5	491219.22N 0021152.52W	18	491213.31N 0021145.22W
6	491219.09N 0021154.37W	19	491213.62N 0021146.91W
7	491217.90N 0021154.16W	20	491214.17N 0021149.25W
8	491218.08N 0021152.31W	21	491214.01N 0021151.63W
9	491218.18N 0021150.43W	22	491213.84N 0021154.03W
10	491218.24N 0021148.15W	23	491213.68N 0021156.82W
11	491217.89N 0021146.05W	40	To be surveyed
12	491217.53N 0021144.07W		
13	491217.19N 0021142.21W		

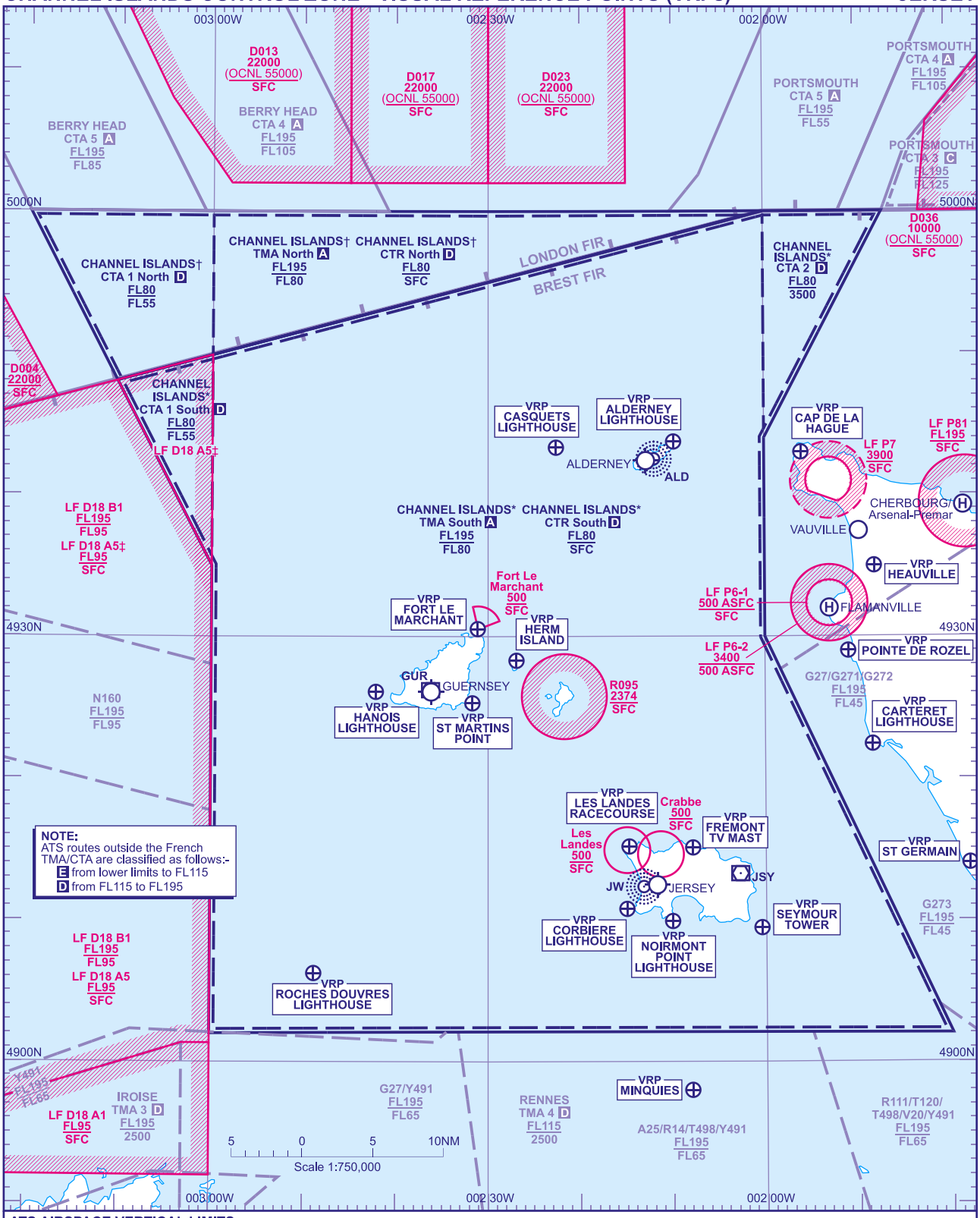
COM		
ATIS	134.680	JERSEY INFO
TWR	119.455	JERSEY TOWER
	121.905 (GMC Summer only)	JERSEY GROUND
	121.600	JERSEY FIRE



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
North Apron	Concrete	72/R/B/W/T	-
South Apron	Concrete	48/R/B/W/T	-
Eastern Apron	Concrete	13/R/C/W/T	-
RWY (All)	*See AD 2-EGJJ-2-1*		
TWY (All)			

CHANGE (6/25): HANGAR REMOVED.

CHANNEL ISLANDS CONTROL ZONE - VISUAL REFERENCE POINTS (VRPs) JERSEY



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

GENERAL INFORMATION
* Outside Jersey notified hours and within Brest FIR. The airspace adopts the classification appropriate to Airway or uncontrolled airspace designation, as appropriate, as detailed in the France AIP.
† Outside Jersey notified hours and within London FIR, CTR, CTA-1 and TMA revert to Class G.
‡ **LF D18 A5** SFC-FL95, except for within CHANNEL ISLANDS CTA-1 South and TMA South when active.

CHANGE (2/25): RECOMMENDED VFR ROUTE REMOVED. CHART RESCALED AND UPDATED.

AERO INFO DATE 03 DEC 24
AD 2-EGJJ-3-1

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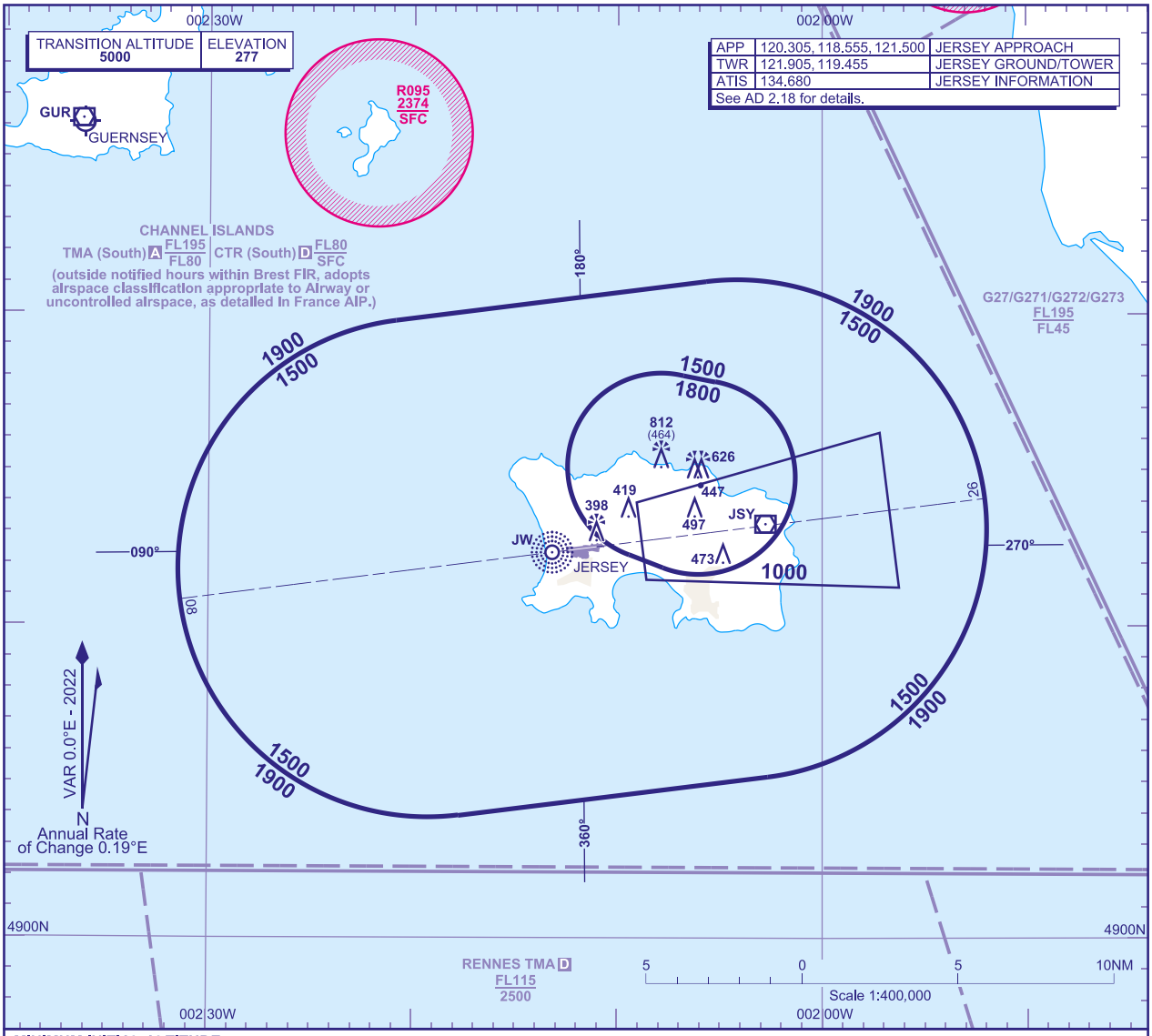
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 812
HEIGHTS IN FEET AGL (464)

JERSEY



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1500** in the sector defined by the lateral limits; 491946N 0022052W - 492102N 0020541W thence clockwise by an arc of a circle radius 8NM centred on 491306N 0020410W to 490510N 0020239W - 490355N 0021745W thence clockwise by an arc of a circle radius 8NM centred on 491151N 0021918W to 491946N 0022052W, except;

b) **1800** in the sector defined by the lateral limits; 491801N 0020647W - 491749N 0020514W thence clockwise by an arc of circle radius 3.1NM centred on 491446N 0020604W to 491152N 0020747W - 491217N 0020926W thence clockwise by an arc of circle radius 3NM centred on 491506N 0020752W to 491801N 0020647W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher to **JW NDB(L)** for RWY 08 approaches or **VOR JSY** for RWY 26 approaches†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **JW NDB(L)** for RWY 08 approaches or **VOR JSY** for RWY 26 approaches†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the SMAA ensure terrain clearance in accordance with Rule 36 (SERA.5015) of the Air Navigation (Rules of the Air) (Jersey) Regulations 2017 for obstacles within the SMAA.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **The chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (1/23): FRENCH AIRSPACE WITH BASE ABOVE FL55 REMOVED.

AERO INFO DATE 16 NOV 22

AD 2-EGJJ-5-1

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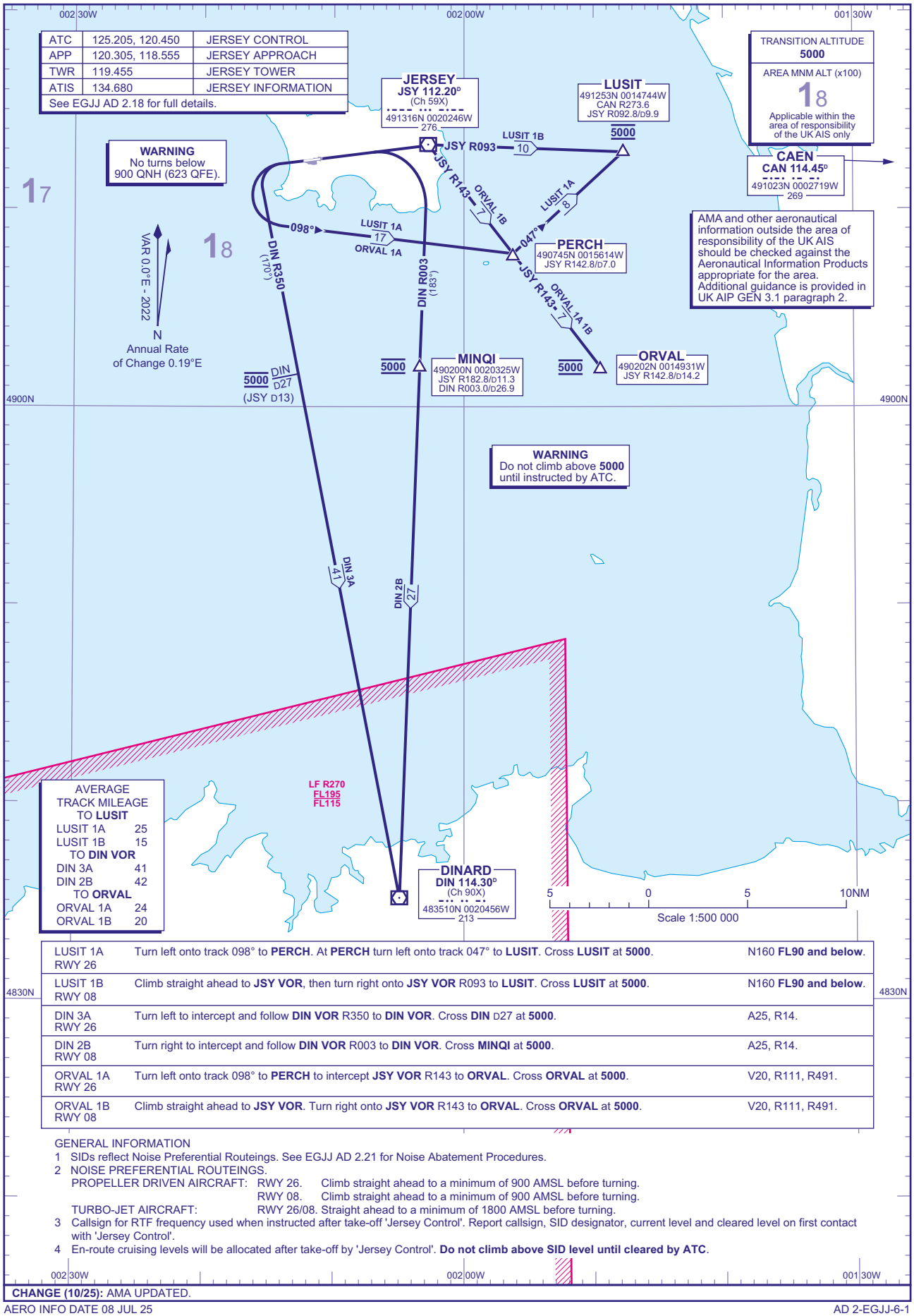
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 08/26
LUSIT 1A 1B DIN 3A 2B ORVAL 1A 1B



LUSIT 1A RWY 26	Turn left onto track 098° to **PERCH**. At **PERCH** turn left onto track 047° to **LUSIT**. Cross **LUSIT** at **5000**.	N160 **FL90 and below.**
LUSIT 1B RWY 08	Climb straight ahead to **JSY VOR**, then turn right onto **JSY VOR** R093 to **LUSIT**. Cross **LUSIT** at **5000**.	N160 **FL90 and below.**
DIN 3A RWY 26	Turn left to intercept and follow **DIN VOR** R350 to **DIN VOR**. Cross **DIN** D27 at **5000**.	A25, R14.
DIN 2B RWY 08	Turn right to intercept and follow **DIN VOR** R003 to **DIN VOR**. Cross **MINQI** at **5000**.	A25, R14.
ORVAL 1A RWY 26	Turn left onto track 098° to **PERCH** to intercept **JSY VOR** R143 to **ORVAL**. Cross **ORVAL** at **5000**.	V20, R111, R491.
ORVAL 1B RWY 08	Climb straight ahead to **JSY VOR**. Turn right onto **JSY VOR** R143 to **ORVAL**. Cross **ORVAL** at **5000**.	V20, R111, R491.

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGJJ AD 2.21 for Noise Abatement Procedures.

2 NOISE PREFERENTIAL ROUTEINGS.
PROPELLER DRIVEN AIRCRAFT: RWY 26. Climb straight ahead to a minimum of 900 AMSL before turning.
RWY 08. Climb straight ahead to a minimum of 900 AMSL before turning.
TURBO-JET AIRCRAFT: RWY 26/08. Straight ahead to a minimum of 1800 AMSL before turning.

3 Callsign for RTF frequency used when instructed after take-off 'Jersey Control'. Report callsign, SID designator, current level and cleared level on first contact with 'Jersey Control'.

4 En-route cruising levels will be allocated after take-off by 'Jersey Control'. **Do not climb above SID level until cleared by ATC.**

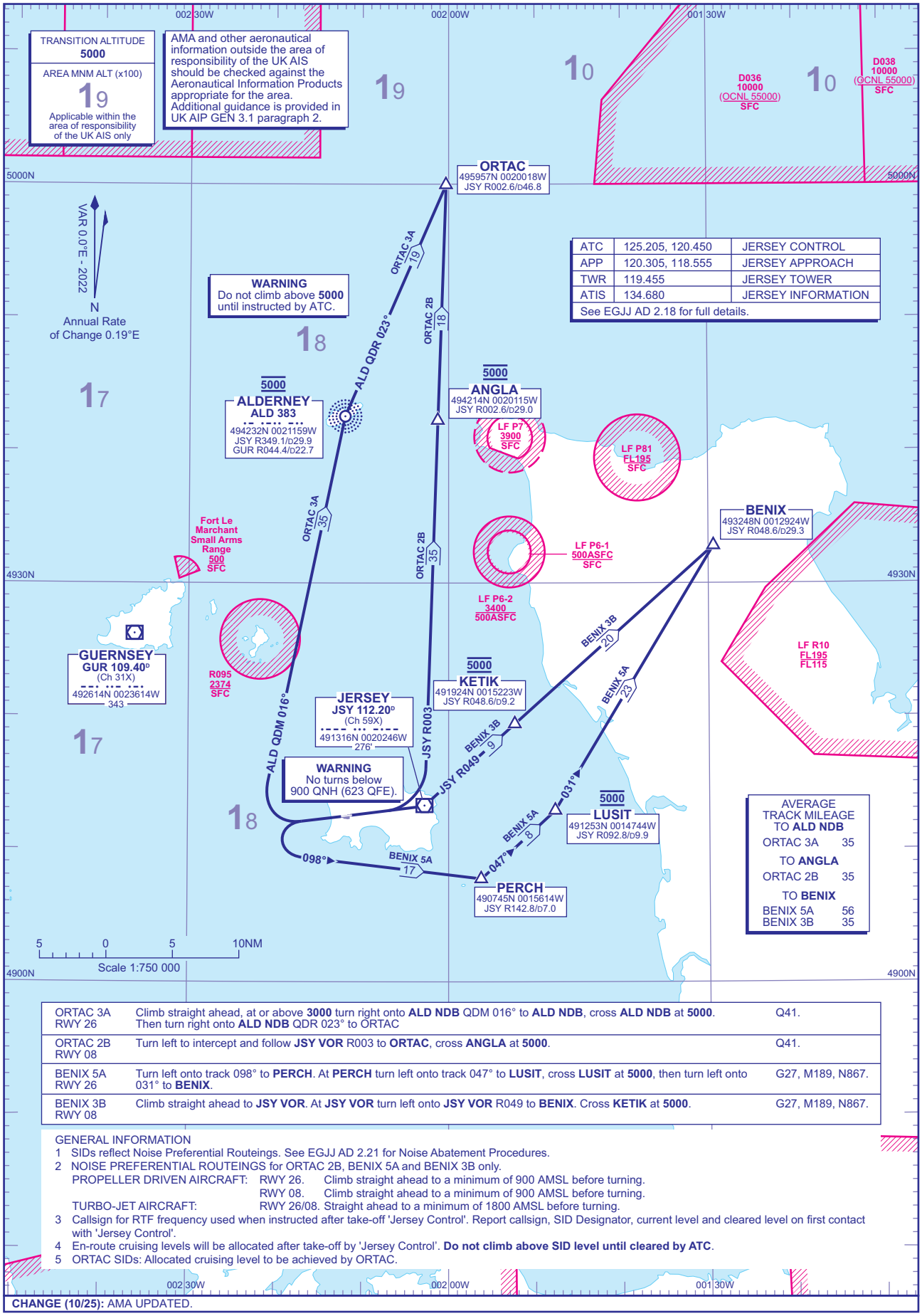
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 08/26
ORTAC 3A 2B BENIX 5A 3B



ORTAC 3A RWY 26	Climb straight ahead, at or above **3000** turn right onto **ALD NDB** QDM 016° to **ALD NDB**, cross **ALD NDB** at **5000**. Then turn right onto **ALD NDB** QDR 023° to ORTAC	Q41.
ORTAC 2B RWY 08	Turn left to intercept and follow **JSY VOR** R003 to **ORTAC**, cross **ANGLA** at **5000**.	Q41.
BENIX 5A RWY 26	Turn left onto track 098° to **PERCH**. At **PERCH** turn left onto track 047° to **LUSIT**, cross **LUSIT** at **5000**, then turn left onto 031° to **BENIX**.	G27, M189, N867.
BENIX 3B RWY 08	Climb straight ahead to **JSY VOR**. At **JSY VOR** turn left onto **JSY VOR** R049 to **BENIX**. Cross **KETIK** at **5000**.	G27, M189, N867.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGJJ AD 2.21 for Noise Abatement Procedures.
2 NOISE PREFERENTIAL ROUTEINGS for ORTAC 2B, BENIX 5A and BENIX 3B only.
PROPELLER DRIVEN AIRCRAFT: RWY 26. Climb straight ahead to a minimum of 900 AMSL before turning.
RWY 08. Climb straight ahead to a minimum of 900 AMSL before turning.
TURBO-JET AIRCRAFT: RWY 26/08. Straight ahead to a minimum of 1800 AMSL before turning.
3 Callsign for RTF frequency used when instructed after take-off 'Jersey Control'. Report callsign, SID Designator, current level and cleared level on first contact with 'Jersey Control'.
4 En-route cruising levels will be allocated after take-off by 'Jersey Control'. **Do not climb above SID level until cleared by ATC.**
5 ORTAC SIDs: Allocated cruising level to be achieved by ORTAC.

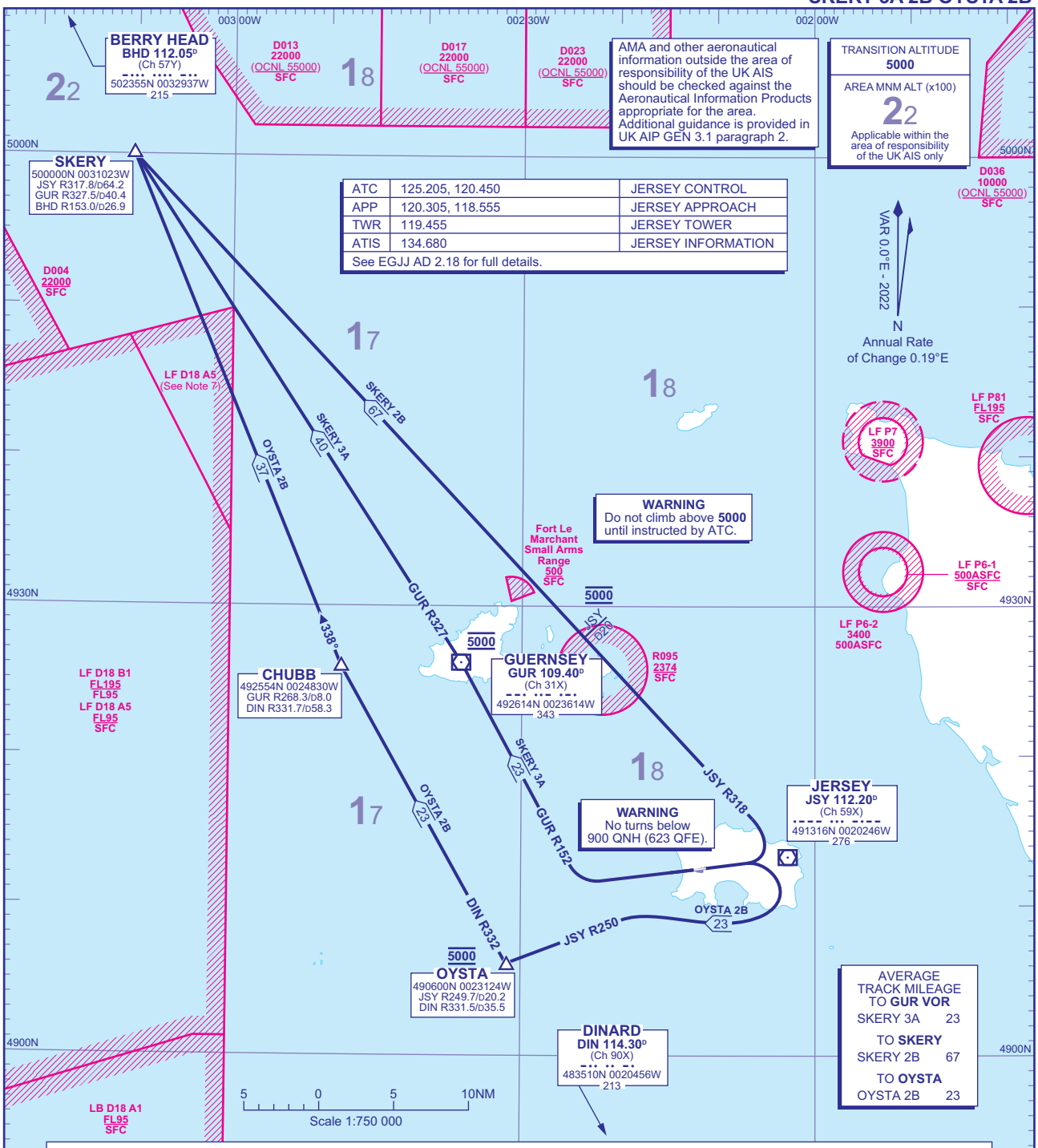
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 08/26
SKERY 3A 2B OYSTA 2B



SKERY 3A RWY 26	Climb straight ahead, at or above **3000** turn right onto **GUR VOR** R152 to **GUR VOR**, cross **GUR VOR** at **5000**. At **GUR VOR** turn left onto **GUR VOR** R327 to **SKERY**.	L22/N864.
SKERY 2B RWY 08	Turn left to intercept and follow **JSY VOR** R318 to **SKERY**. Cross **JSY VOR** R318 D20 at **5000**.	L22/N864.
OYSTA 2B RWY 08	Turn right to intercept and follow **JSY VOR** R250 to **OYSTA**, cross **OYSTA** at **5000**. At **OYSTA** turn right onto **DIN VOR** R332 to **CHUBB**. At **CHUBB** turn right onto track 338° to **SKERY**.	L22/N864.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGJJ AD 2.21 for Noise Abatement Procedures.
2 NOISE PREFERENTIAL ROUTEINGS for SKERY 2B and OYSTA 2B only.
PROPELLER DRIVEN AIRCRAFT: RWY 26. Climb straight ahead to a minimum of 900 AMSL before turning.
RWY 08. Climb straight ahead to a minimum of 900 AMSL before turning.
TURBO-JET AIRCRAFT: RWY 26/08. Straight ahead to a minimum of 1800 AMSL before turning.
3 Callsign for RTF frequency used when instructed after take-off 'Jersey Control'. Report callsign, SID Designator, current level and cleared level on first contact with 'Jersey Control'.
4 En-route cruising levels will be allocated after take-off by 'Jersey Control. **Do not climb above SID level until cleared by ATC**.
5 SKERY SIDs: Allocated cruising level to be achieved by SKERY.
6 Outside the operating hours of Guernsey ATC, GUR VOR is unmonitored.
7 **LF D18 A5** SFC-FL95, except for within CHANNEL ISLANDS CTA-1 (South) and TMA (South) when active.

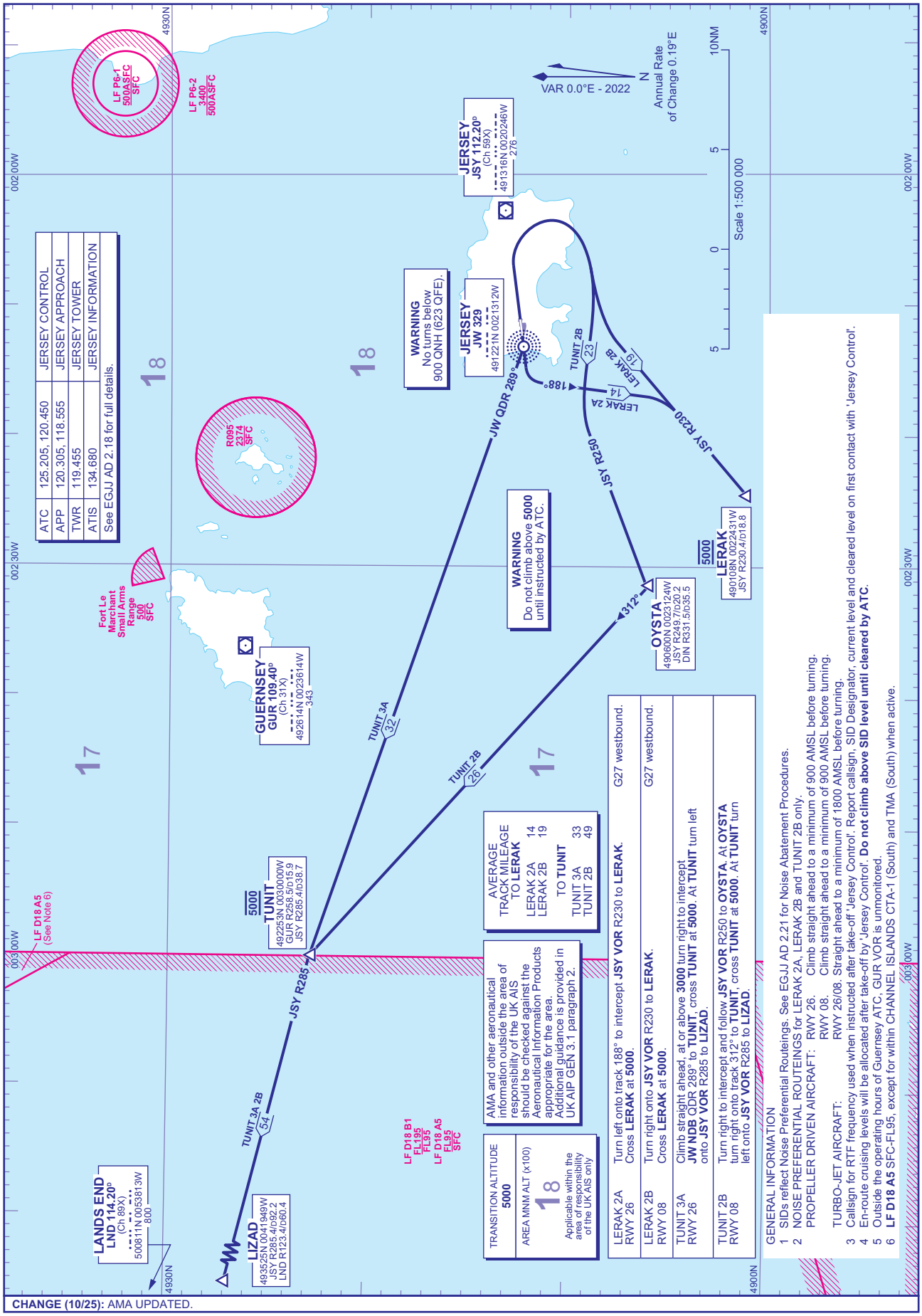
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 08/26
LERAK 2A 2B TUNIT 3A 2B



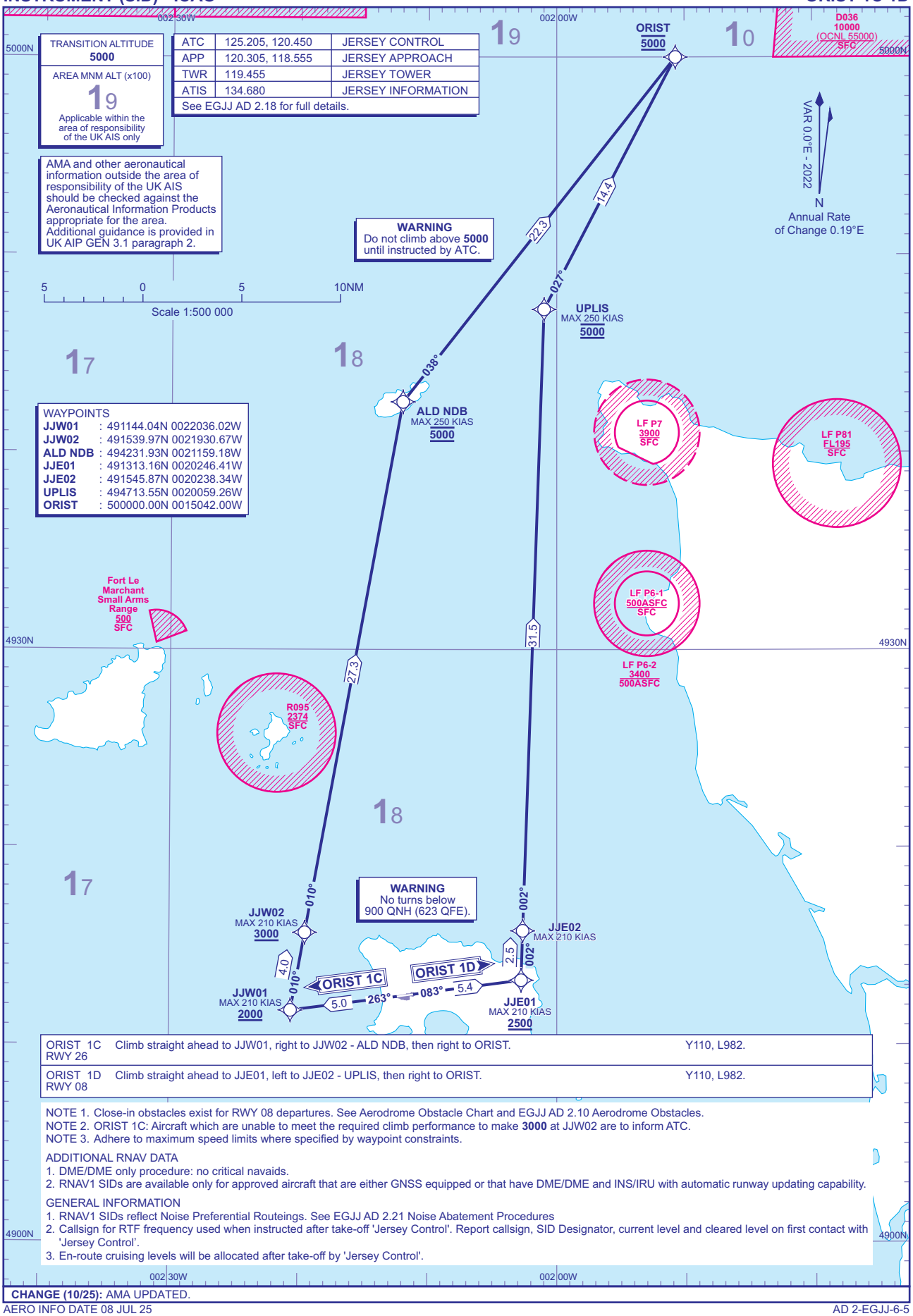
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 08/26
ORIST 1C 1D



ORIST 1C RWY 26	Climb straight ahead to JJW01, right to JJW02 - ALD NDB, then right to ORIST.	Y110, L982.
ORIST 1D RWY 08	Climb straight ahead to JJE01, left to JJE02 - UPLIS, then right to ORIST.	Y110, L982.

NOTE 1. Close-in obstacles exist for RWY 08 departures. See Aerodrome Obstacle Chart and EGJJ AD 2.10 Aerodrome Obstacles.
NOTE 2. ORIST 1C: Aircraft which are unable to meet the required climb performance to make **3000** at JJW02 are to inform ATC.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGJJ AD 2.21 Noise Abatement Procedures
2. Callsign for RTF frequency used when instructed after take-off 'Jersey Control'. Report callsign, SID Designator, current level and cleared level on first contact with 'Jersey Control'.
3. En-route cruising levels will be allocated after take-off by 'Jersey Control'.

CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

AD 2-EGJJ-6-5

Standard Instrument Departure Coding Tables

Jersey Runway 26 ORIST 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ORIST 1C	001	CF	JJW01	491144.04N 0022036.02W	N	263° (262.8°)	0.0	5.0	RIGHT	+2000	-210	RNAV1
ORIST 1C	002	TF	JJW02	491539.97N 0021930.67W	N	010° (010.3°)	0.0	4.0	-	+3000	-210	RNAV1
ORIST 1C	003	TF	ALD	494231.93N 0021159.18W	N	010° (010.3°)	0.0	27.3	RIGHT	5000	-250	RNAV1
ORIST 1C	004	TF	ORIST	500000.00N 0015042.00W	N	038° (038.1°)	0.0	22.3	-	5000	-	RNAV1

Jersey Runway 08 ORIST 1D

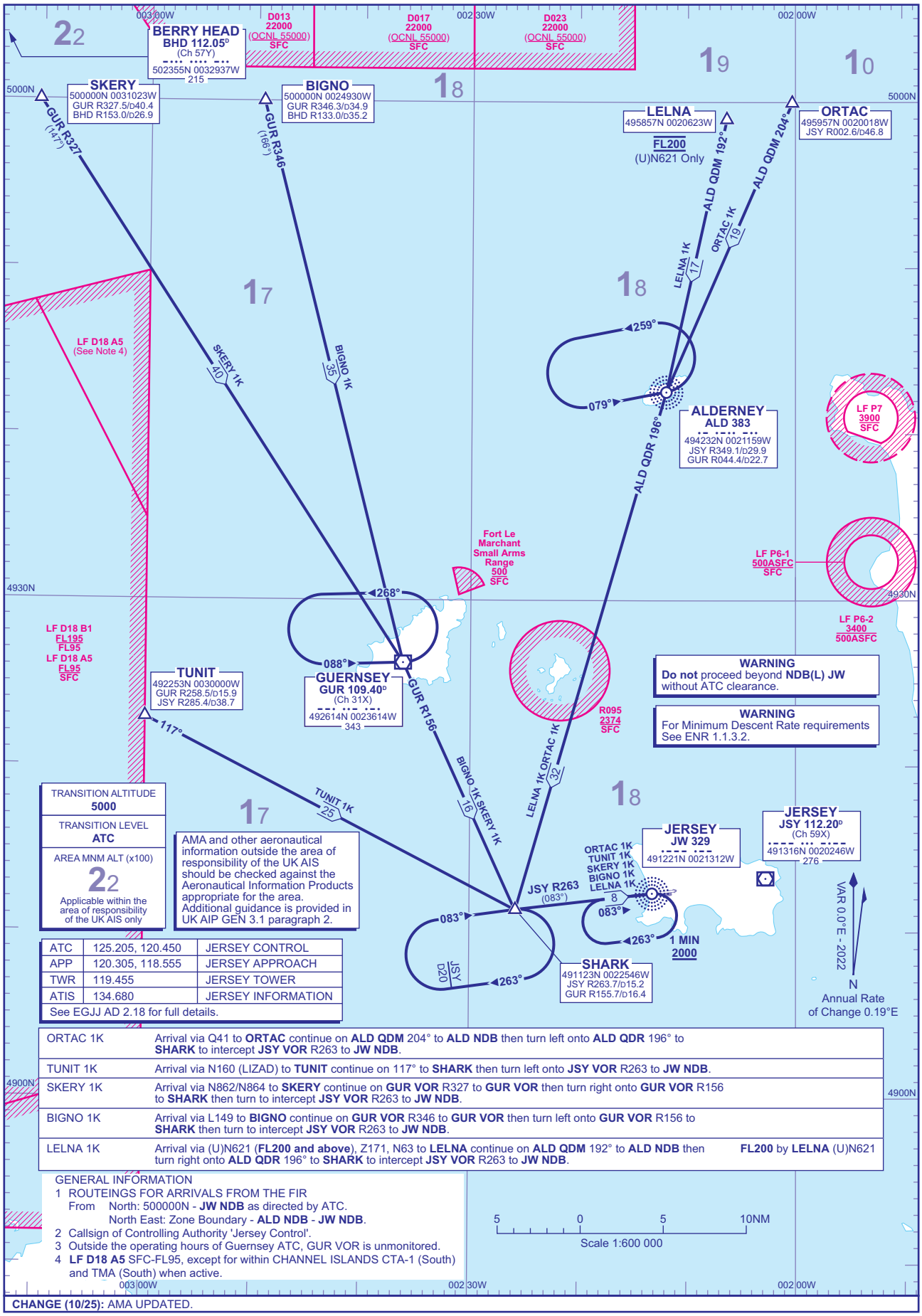
Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ORIST 1D	001	CF	JJE01	491313.16N 0020246.41W	N	083° (082.7°)	0.0	5.4	LEFT	+2500	-210	RNAV1
ORIST 1D	002	TF	JJE02	491545.87N 0020238.34W	N	002° (002.0°)	0.0	2.5	-	-	-210	RNAV1
ORIST 1D	003	TF	UPLIS	494713.55N 0020059.26W	N	002° (002.0°)	0.0	31.5	RIGHT	5000	-250	RNAV1
ORIST 1D	004	TF	ORIST	500000.00N 0015042.00W	N	027° (027.4°)	0.0	14.4	-	5000	-	RNAV1

CHANGE (3/21): MAG VAR. MAG TRACKS.
AERO INFO DATE 22 DEC 20

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY RWY 08
ORTAC 1K TUNIT 1K SKERY 1K BIGNO 1K LELNA 1K



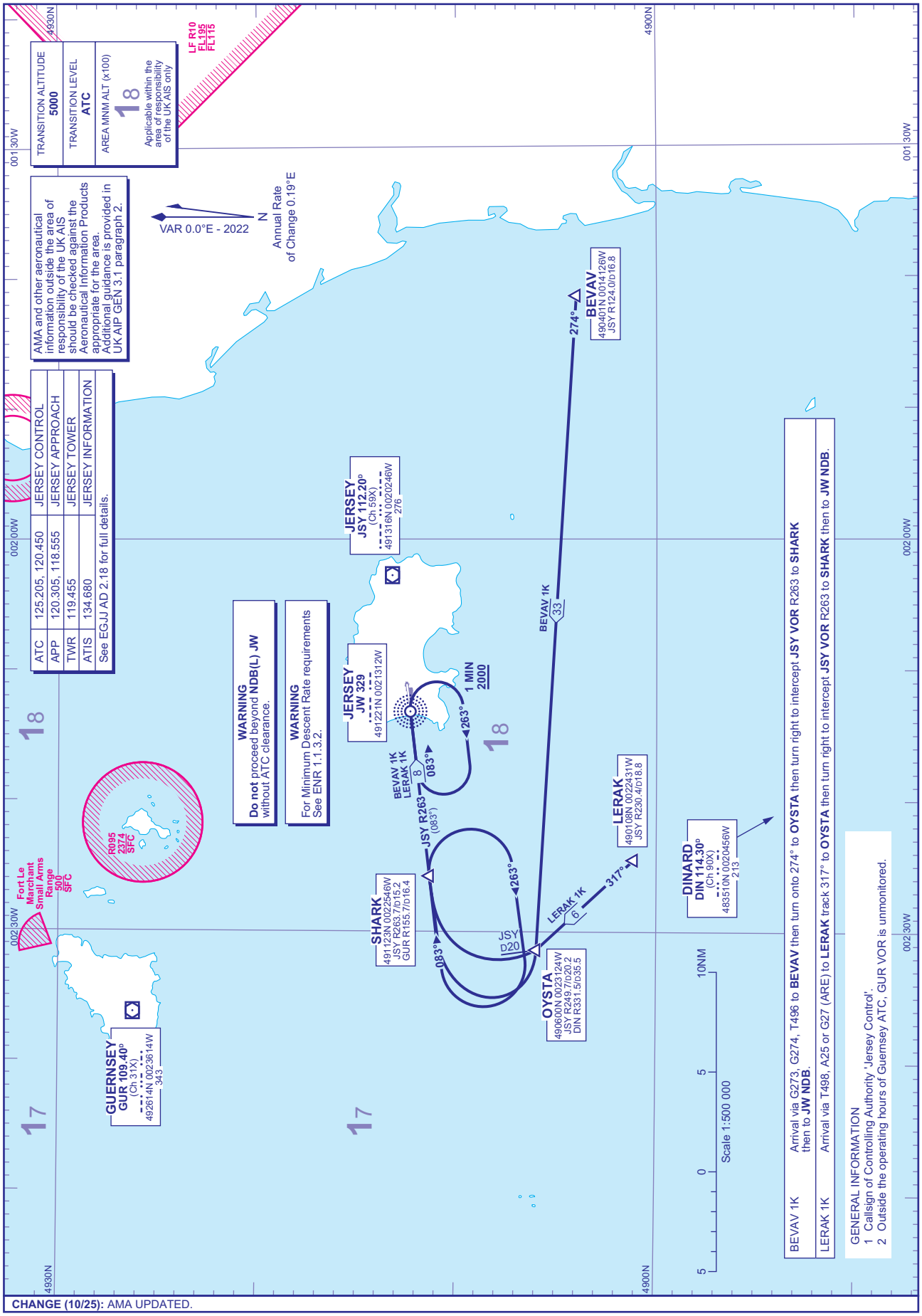
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 08
BEVAV 1K LERAK 1K



CHANGE (10/25): AMA UPDATED.

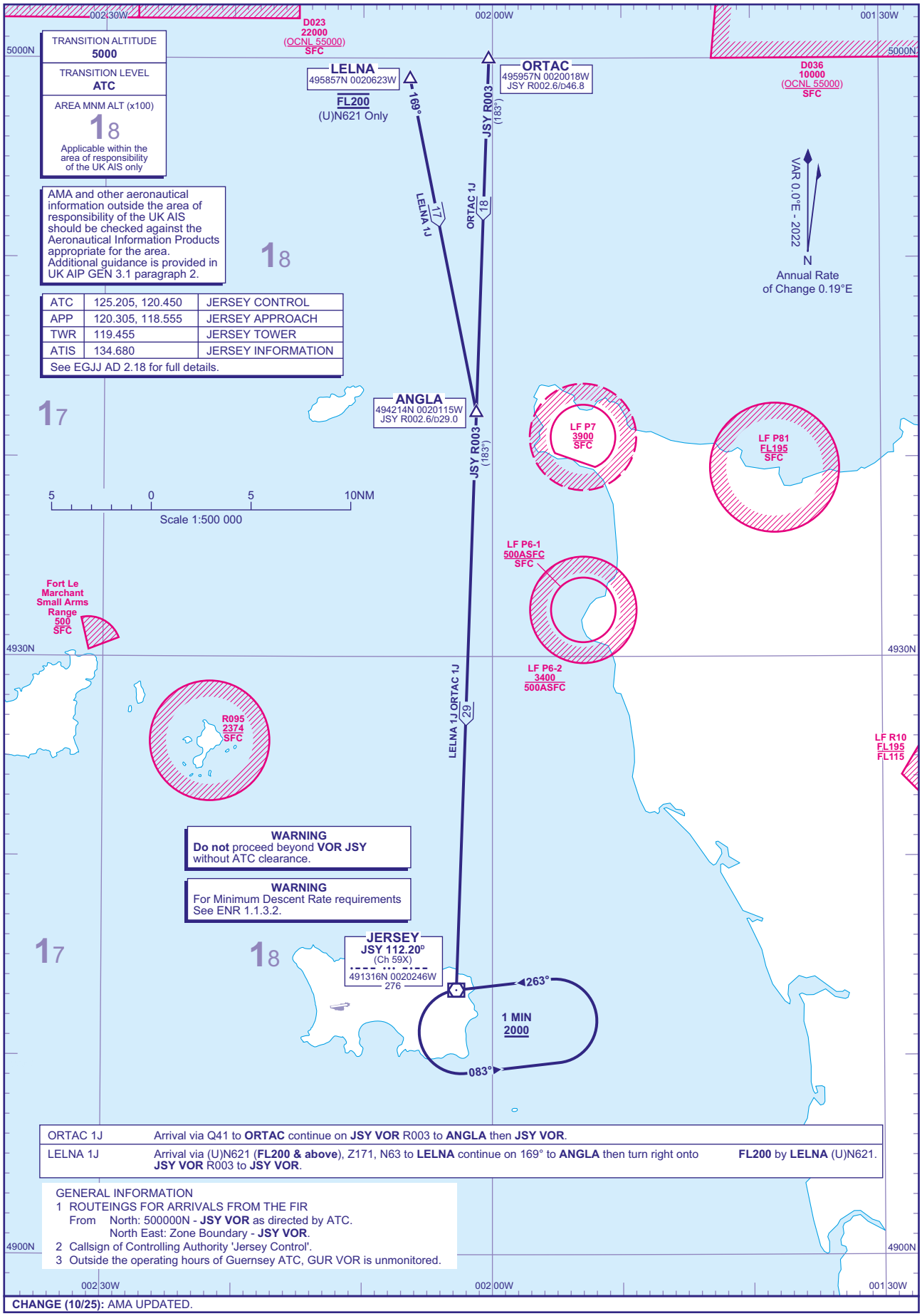
AERO INFO DATE 08 JUL 25

AD 2-EGJJ-7-2

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 26
ORTAC 1J LELNA 1J



ORTAC 1J	Arrival via Q41 to **ORTAC** continue on **JSY VOR** R003 to **ANGLA** then **JSY VOR**.
LELNA 1J	Arrival via (U)N621 (**FL200 & above**), Z171, N63 to **LELNA** continue on 169° to **ANGLA** then turn right onto **JSY VOR** R003 to **JSY VOR**. **FL200** by **LELNA** (U)N621.

GENERAL INFORMATION
1 ROUTEINGS FOR ARRIVALS FROM THE FIR
From North: 500000N - **JSY VOR** as directed by ATC.
North East: Zone Boundary - **JSY VOR**.
2 Callsign of Controlling Authority 'Jersey Control'.
3 Outside the operating hours of Guernsey ATC, GUR VOR is unmonitored.

CHANGE (10/25): AMA UPDATED.

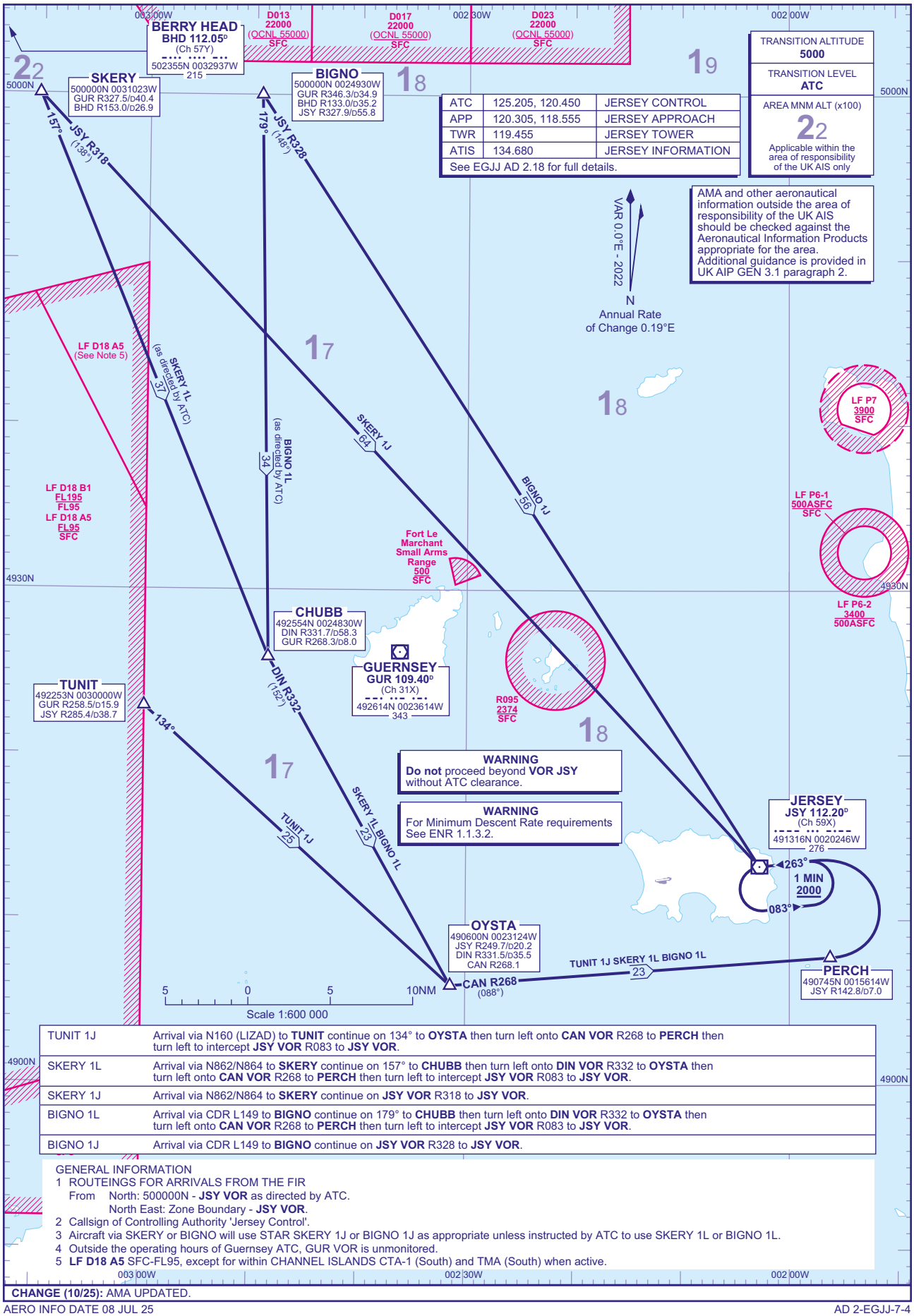
AERO INFO DATE 08 JUL 25

AD 2-EGJJ-7-3

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 26
TUNIT 1J SKERY 1L 1J BIGNO 1L 1J



TUNIT 1J	Arrival via N160 (LIZAD) to **TUNIT** continue on 134° to **OYSTA** then turn left onto **CAN VOR** R268 to **PERCH** then turn left to intercept **JSY VOR** R083 to **JSY VOR**.
SKERY 1L	Arrival via N862/N864 to **SKERY** continue on 157° to **CHUBB** then turn left onto **DIN VOR** R332 to **OYSTA** then turn left onto **CAN VOR** R268 to **PERCH** then turn left to intercept **JSY VOR** R083 to **JSY VOR**.
SKERY 1J	Arrival via N862/N864 to **SKERY** continue on **JSY VOR** R318 to **JSY VOR**.
BIGNO 1L	Arrival via CDR L149 to **BIGNO** continue on 179° to **CHUBB** then turn left onto **DIN VOR** R332 to **OYSTA** then turn left onto **CAN VOR** R268 to **PERCH** then turn left to intercept **JSY VOR** R083 to **JSY VOR**.
BIGNO 1J	Arrival via CDR L149 to **BIGNO** continue on **JSY VOR** R328 to **JSY VOR**.

GENERAL INFORMATION
1 ROUTEINGS FOR ARRIVALS FROM THE FIR
From North: 500000N - **JSY VOR** as directed by ATC.
North East: Zone Boundary - **JSY VOR**.
2 Callsign of Controlling Authority 'Jersey Control'.
3 Aircraft via SKERY or BIGNO will use STAR SKERY 1J or BIGNO 1J as appropriate unless instructed by ATC to use SKERY 1L or BIGNO 1L.
4 Outside the operating hours of Guernsey ATC, GUR VOR is unmonitored.
5 **LF D18 A5** SFC-FL95, except for within CHANNEL ISLANDS CTA-1 (South) and TMA (South) when active.

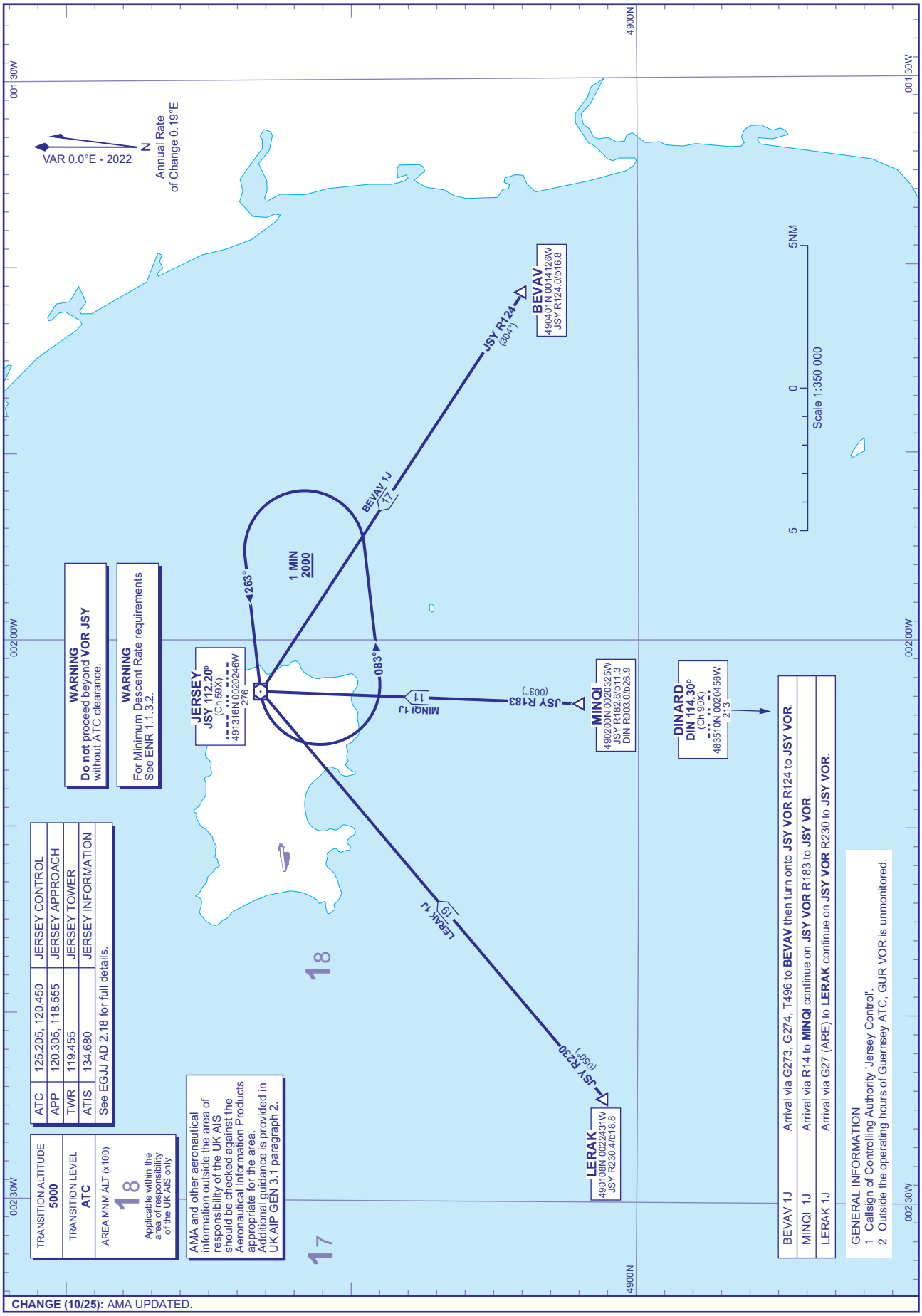
CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25 AD 2-EGJJ-7-4

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

JERSEY
RWY 26
BEVAV 1J MINQI 1J LERAK 1J



CHANGE (10/25): AMA UPDATED.

AERO INFO DATE 08 JUL 25

AD 2-EGJJ-7-5

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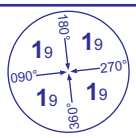
INSTRUMENT APPROACH CHART - ICAO

JERSEY
ILS/DME/NDB(L)
RWY 08
(ACFT CAT A,B,C,D)

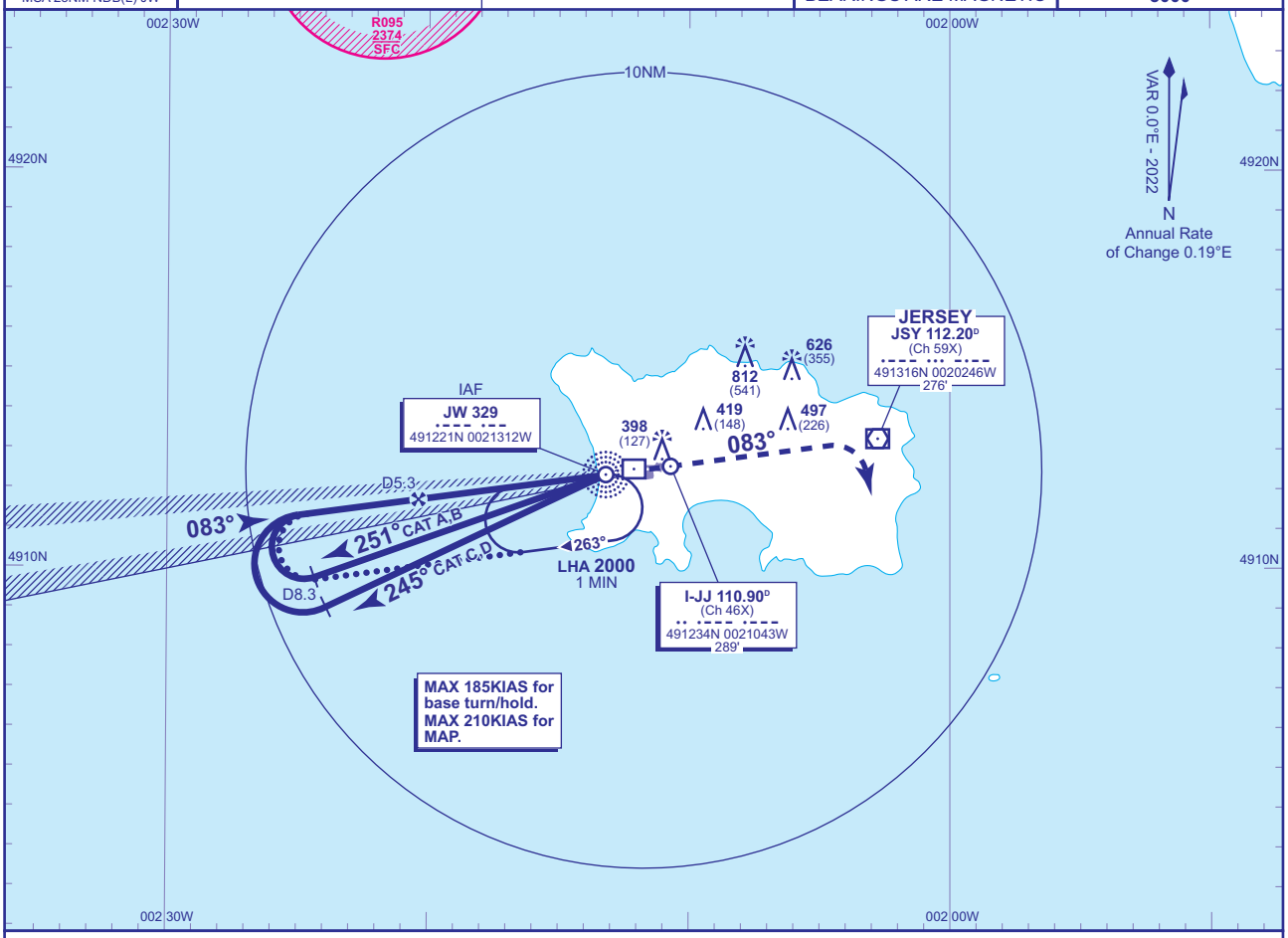


MSA 25NM NDB(L) JW

ATC	125.205, 120.450	JERSEY CONTROL
APP	120.305, 118.555	JERSEY APPROACH
TWR	119.455	JERSEY TOWER
	121.905	JERSEY GROUND
ATIS	134.680	JERSEY INFORMATION

AD ELEVATION	277
THR ELEVATION	271
OBSTACLE ELEVATION	812 AMSL (541) (ABOVE THR)
BEARINGS ARE MAGNETIC	

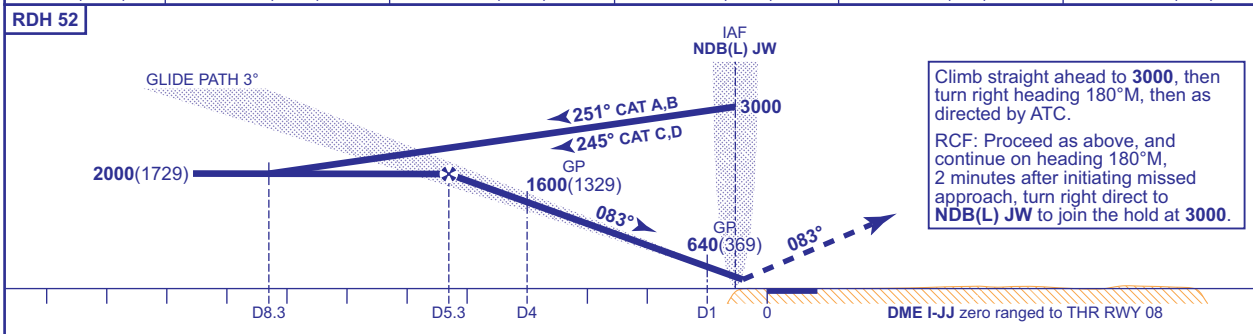
TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-JJ	5	4	3	2	1
ALT(HGT)	**1920**(1649)	**1600**(1329)	**1280**(1009)	**960**(689)	**640**(369)

RDH 52



Climb straight ahead to **3000**, then turn right heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn right direct to **NDB(L) JW** to join the hold at **3000**.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**420**(149)	**430**(159)	**437**(166)	**450**(179)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	750	640	530	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN (MAX 185KIAS)
Arrive at IAF NDB(L) JW at **3000**. Extend the outbound leg of the NDB(L) JW holding pattern to I-JJ D8.3 descending to **2000**(1729). Turn right onto the LOC, when established, continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-JJ
Advise ATC. Radar ranges will be passed equivalent to D8.3 outbound and D4 inbound.

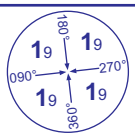
CHANGE (5/23): DME I-JJ ELEVATION.

AERO INFO DATE 06 MAR 23

AD 2-EGJJ-8-1

INSTRUMENT APPROACH CHART - ICAO

JERSEY
LOC/DME/NDB(L)
RWY 08
(ACFT CAT A,B,C,D)

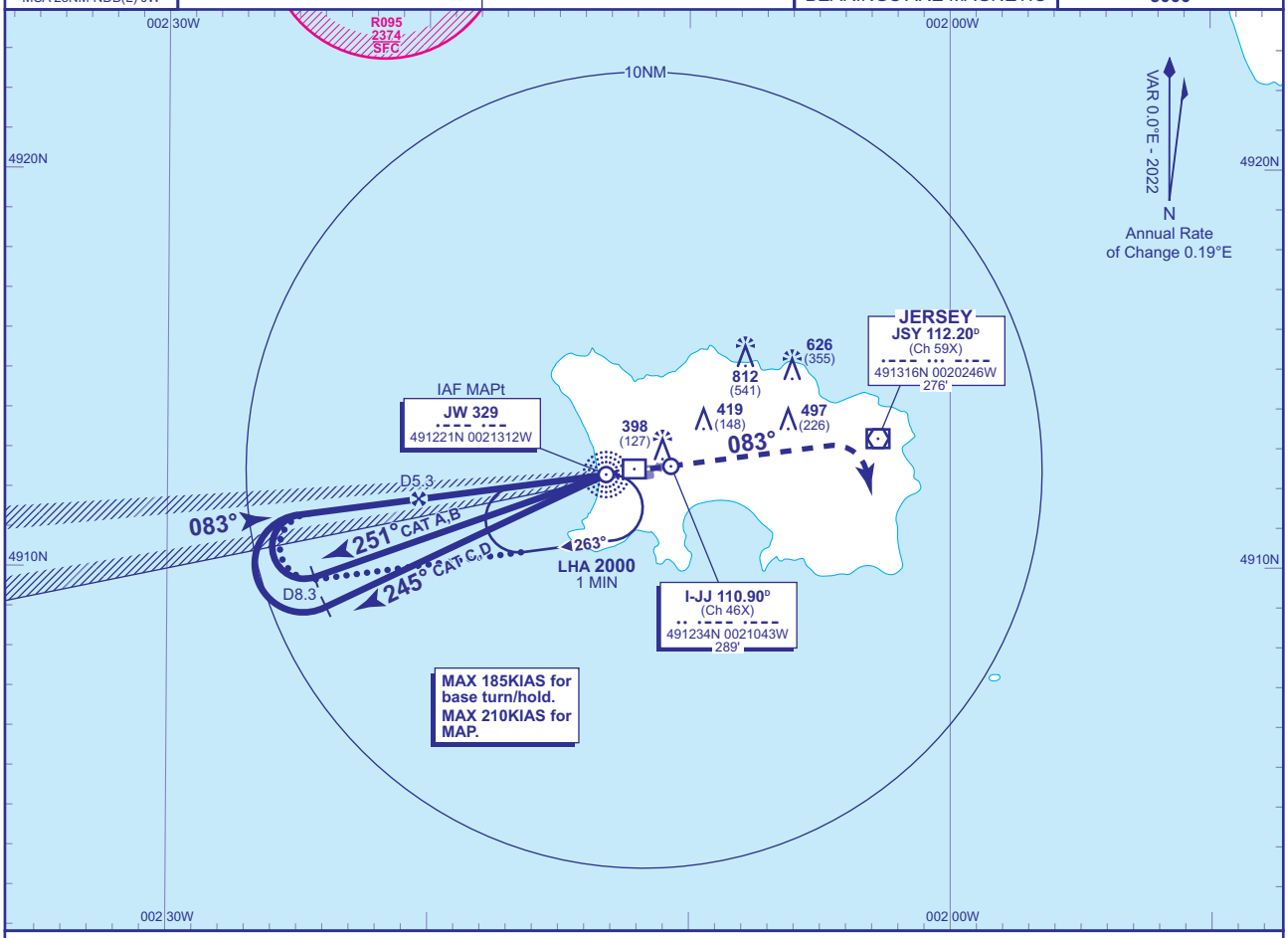


MSA 25NM NDB(L) JW

ATC	125.205, 120.450	JERSEY CONTROL
APP	120.305, 118.555	JERSEY APPROACH
TWR	119.455	JERSEY TOWER
	121.905	JERSEY GROUND
ATIS	134.680	JERSEY INFORMATION

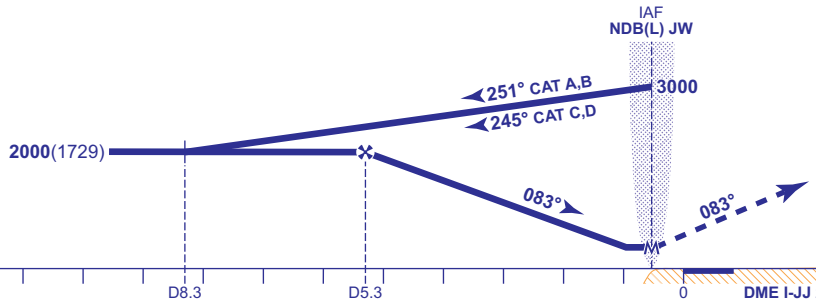
AD ELEVATION	**277**
THR ELEVATION	**271**
OBSTACLE ELEVATION **812 AMSL** (541) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-JJ	5	4	3	2	1
ALT(HGT)	**1920**(1649)	**1600**(1329)	**1280**(1009)	**960**(689)	**640**(369)



MAPt NDB(L) JW

Climb straight ahead to **3000**, then turn right heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn right direct to **NDB(L) JW** to join the hold at **3000**.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**WITH DME**	**590**(319)	**590**(319)	**590**(319)	**590**(319)
	NO DME	**640**(369)	**640**(369)	**640**(369)	**640**(369)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	750	640	530	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN (MAX 185KIAS)
Arrive at IAF NDB(L) JW at **3000**. Extend the outbound leg of the NDB(L) JW holding pattern to I-JJ D8.3 descending to **2000**(1729). Turn right onto the LOC, when established, continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-JJ
As for main and alternative procedure except fly outbound for 3MIN (CAT A); 2.5MIN (CAT B); 2MIN (CAT C,D) prior to base turn. When established on LOC descend to MDA.

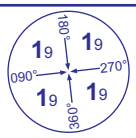
CHANGE (5/23): DME I-JJ ELEVATION.

AERO INFO DATE 06 MAR 23

AD 2-EGJJ-8-2

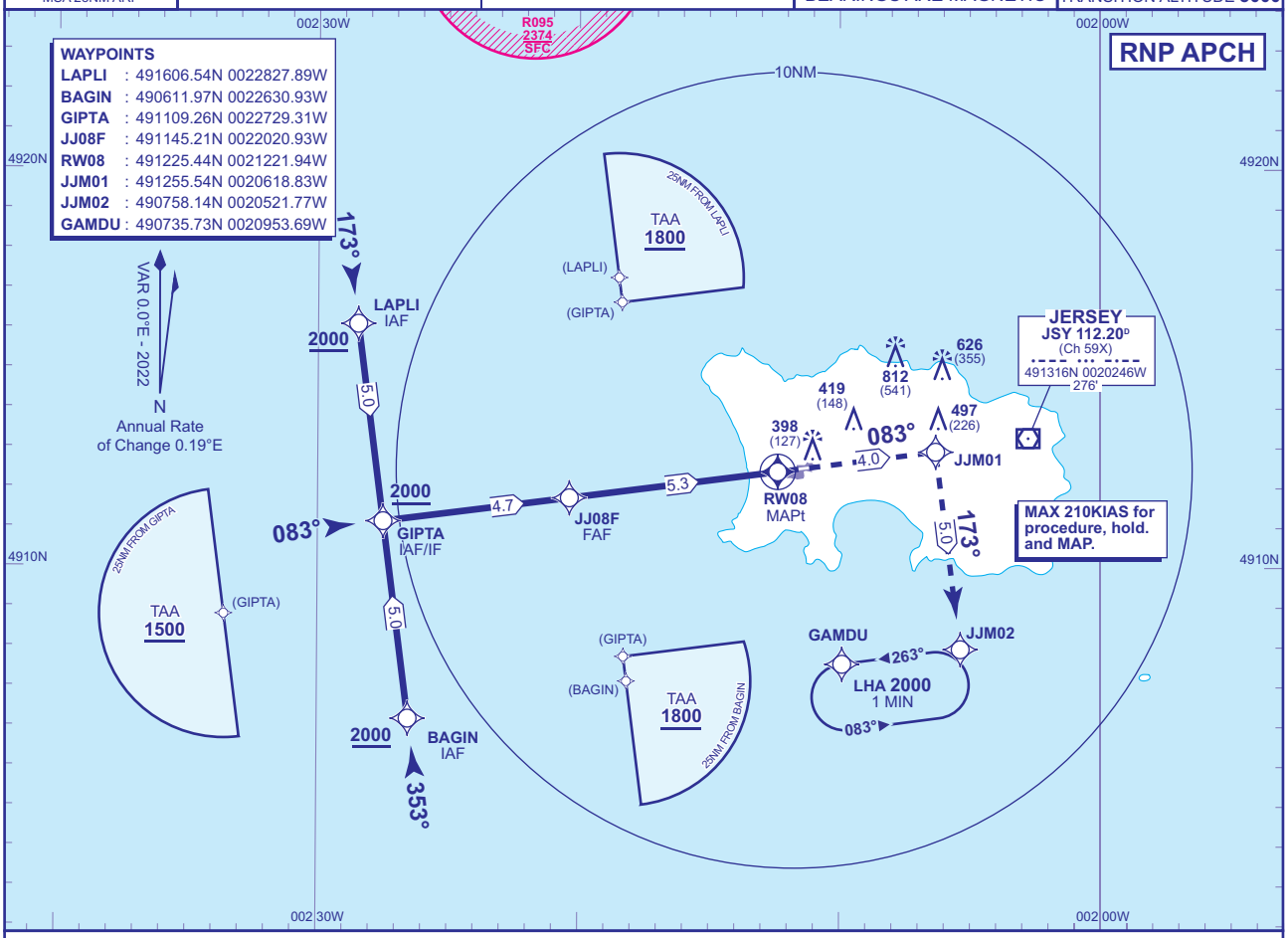
INSTRUMENT APPROACH CHART - ICAO

JERSEY
RNP
RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM ARP

ATC	125.205, 120.450	JERSEY CONTROL	AD ELEVATION	277	EGNOS CH 61428 E08A
APP	120.305, 118.555	JERSEY APPROACH	THR ELEVATION	271	MIN TEMP -5°C
TWR	119.455	JERSEY TOWER	OBSTACLE ELEVATION 812 AMSL (541) (ABOVE THR)		TRANSITION ALTITUDE 5000
	121.905	JERSEY GROUND			
ATIS	134.680	JERSEY INFORMATION	BEARINGS ARE MAGNETIC		

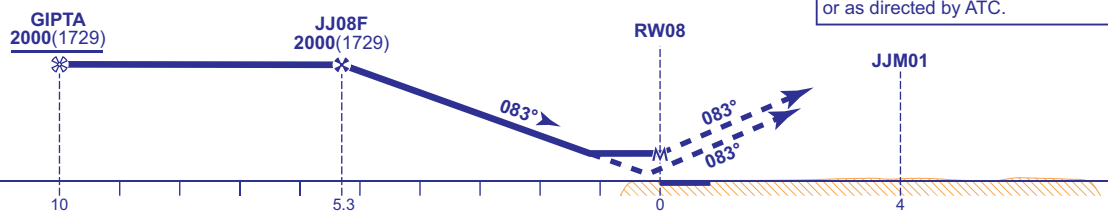


RECOMMENDED PROFILE LPV/VNAV Vertical Path Angle 3.0°(LNAV 5.24%), 320FT/NM

NM to RW08	5	4	3	2	1
ALT(HGT)	**1910**(1639)	**1590**(1319)	**1280**(1009)	**960**(689)	**640**(369)

TCH 52

MAPt (LNAV): RW08
Continuous climb to **3000**. Initially climb straight ahead to **JJM01**, then turn right to **JJM02** and **GAMDU** to join the hold or as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	LPV	**471**(200)	**471**(200)	**471**(200)	**471**(200)
	LNAV/VNAV	**571**(300)	**571**(300)	**571**(300)	**571**(300)
	LNAV	**621**(350)	**621**(350)	**621**(350)	**621**(350)
VM(C)OCA (OCH AAL)	Total Area	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	430

NOTE Aircraft will normally be required to hold not lower than **3000.**

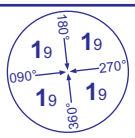
CHANGE (4/21): VM(C) OCA (OCH AAL). MAG VAR. HOLD BEARING.

AERO INFO DATE 09 FEB 21

AD 2-EGJJ-8-3

INSTRUMENT APPROACH CHART - ICAO

JERSEY VOR/DME RWY 08
(ACFT CAT A,B,C,D)

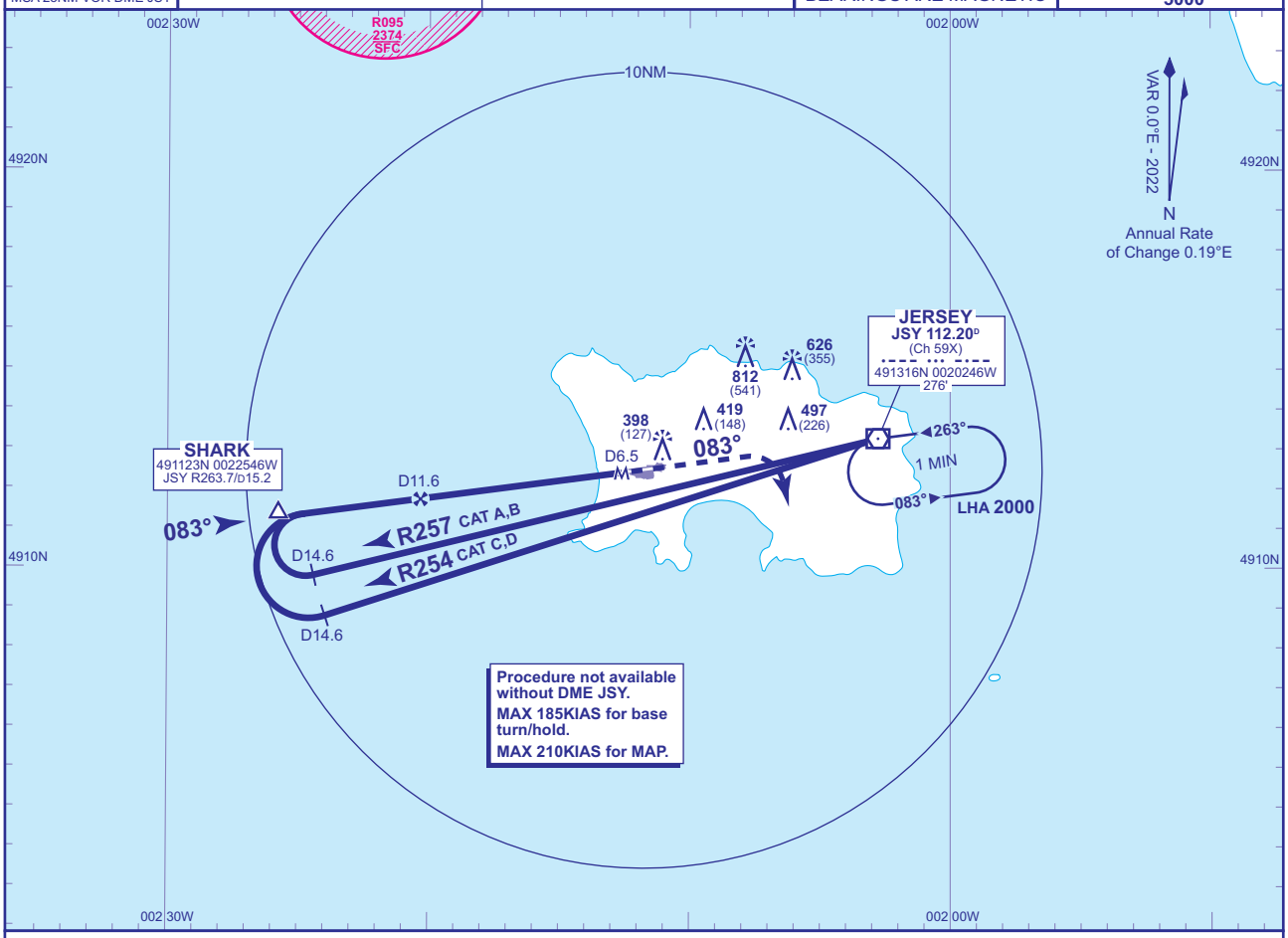


MSA 25NM VOR DME JSY

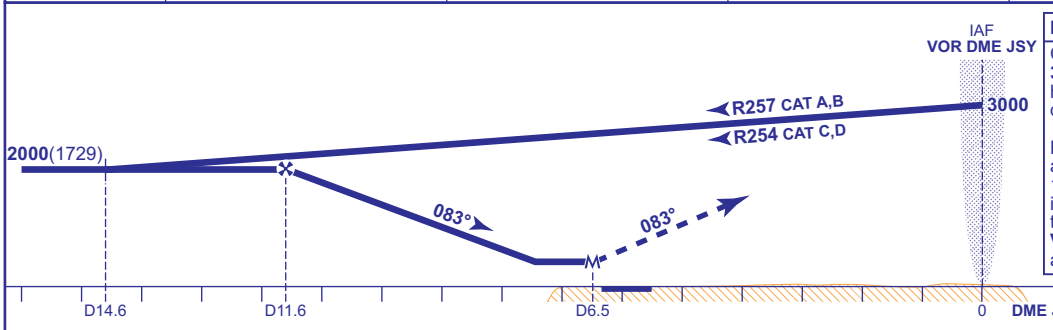
ATC	125.205, 120.450	JERSEY CONTROL
APP	120.305, 118.555	JERSEY APPROACH
TWR	119.455	JERSEY TOWER
	121.905	JERSEY GROUND
ATIS	134.680	JERSEY INFORMATION

AD ELEVATION	**277**
THR ELEVATION	**271**
OBSTACLE ELEVATION **812 AMSL** (541) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM				
THR (JSY DME)	5(11.3)	4(10.3)	3(9.3)	2(8.3)
ALT(HGT)	**1920**(1649)	**1600**(1329)	**1280**(1009)	**960**(689)



MAPt JSY DME 6.5

Climb straight ahead to **3000**, then turn right heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn right direct to **VOR JSY** to join the hold at **3000**.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**660**(389)	**660**(389)	**660**(389)	**660**(389)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	750	640	530	430

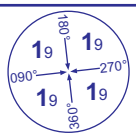
DIRECT ARRIVALS
Subject to ATC approval, following standard arrival routes to SHARK, from SHARK establish on extended FAT JSY R263, then descend to **2000**(1729) then continue as for basic procedure.

CHANGE (1/22): JSY VOR RECALIBRATED.

AERO INFO DATE 08 NOV 21

INSTRUMENT APPROACH CHART - ICAO

JERSEY
NDB(L)/DME
RWY 08
(ACFT CAT A,B,C,D)

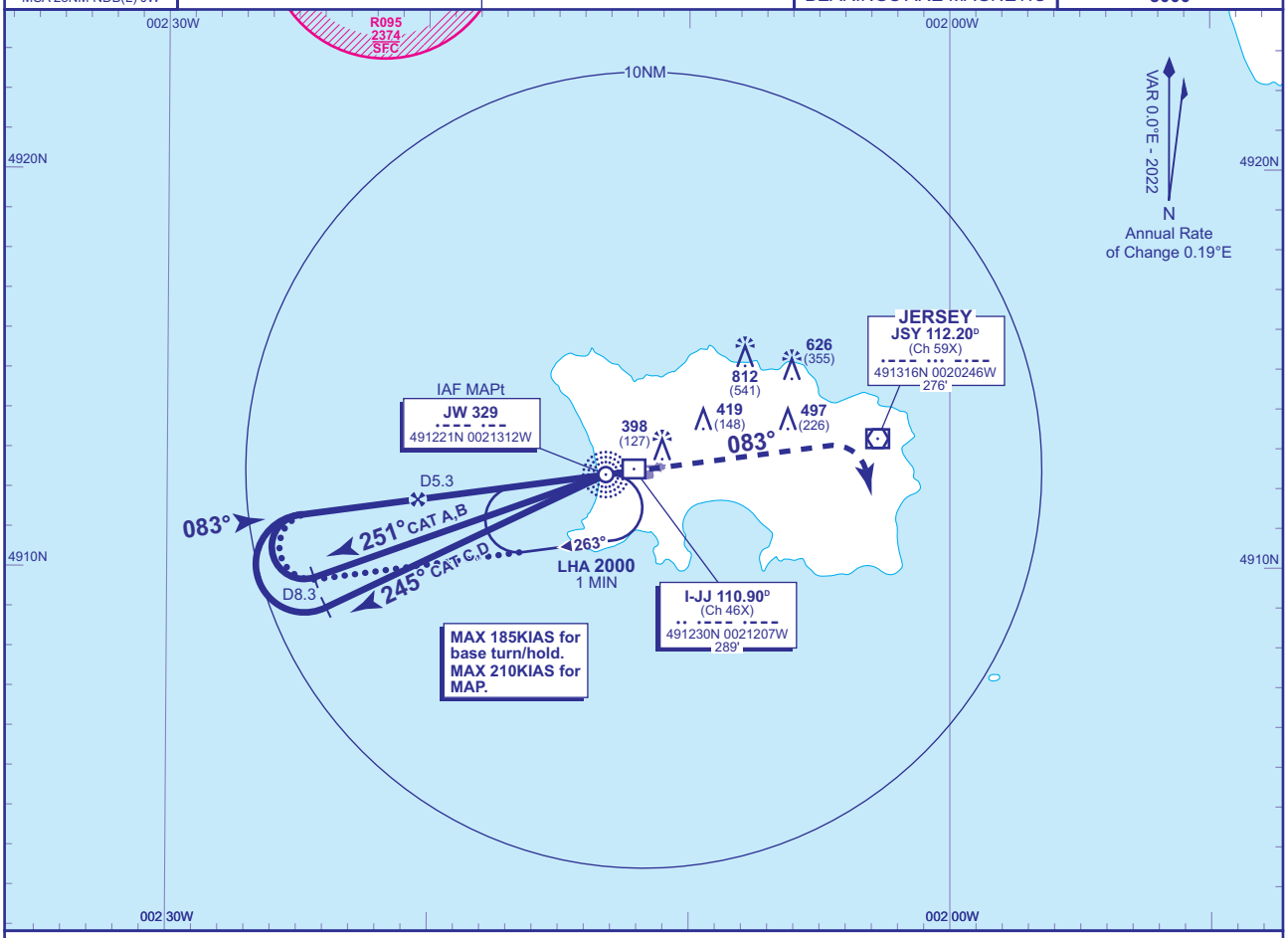


MSA 25NM NDB(L) JW

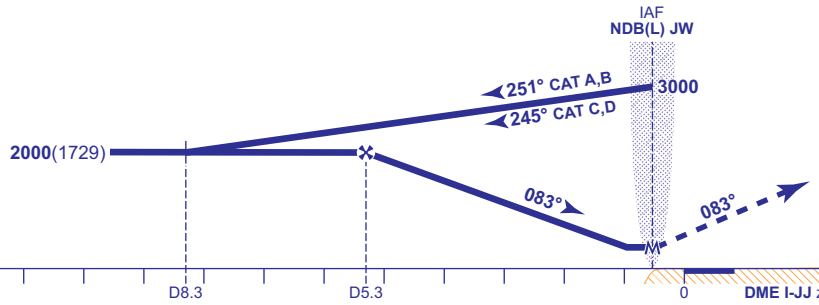
ATC	125.205, 120.450	JERSEY CONTROL
APP	120.305, 118.555	JERSEY APPROACH
TWR	119.455	JERSEY TOWER
	121.905	JERSEY GROUND
ATIS	134.680	JERSEY INFORMATION

AD ELEVATION	**277**
THR ELEVATION	**271**
OBSTACLE ELEVATION **812 AMSL** (541) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
5000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM					
DME I-JJ	5	4	3	2	1
ALT(HGT)	**1920**(1649)	**1600**(1329)	**1280**(1009)	**960**(689)	**640**(369)



MAPt NDB(L) JW

Climb straight ahead to **3000**, then turn right heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn right direct to **NDB(L) JW** to join the hold at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**590**(319)	**590**(319)	**590**(319)	**590**(319)
	NO DME	**640**(369)	**640**(369)	**640**(369)	**640**(369)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN (MAX 185KIAS)
Arrive at IAF NDB(L) JW at **3000**. Extend the outbound leg of the NDB(L) JW holding pattern to I-JJ D8.3 descending to **2000**(1729). Turn right onto the extended FAT, when established, continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-JJ
As for main and alternative procedure except fly outbound for 3MIN (CAT A); 2.5MIN (CAT B); 2MIN (CAT C,D) prior to base turn. When established on FAT descend to MDA.

CHANGE (5/23): DME I-JJ ELEVATION.

AERO INFO DATE 06 MAR 23

INSTRUMENT APPROACH CHART - ICAO

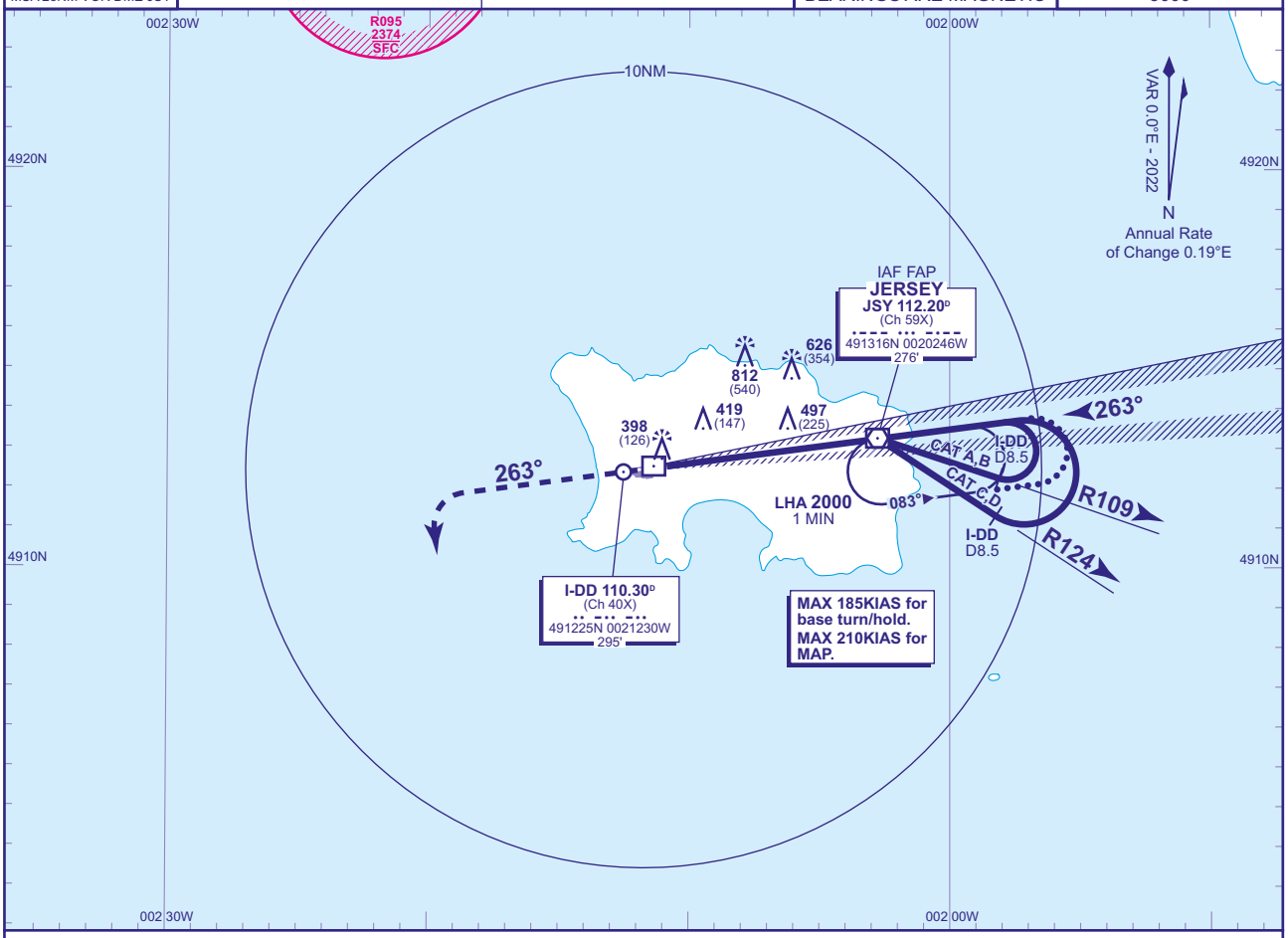
JERSEY ILS/DME/VOR RWY 26
(ACFT CAT A,B,C,D)

MSA 25NM VOR DME JSY

ATC	125.205, 120.450	JERSEY CONTROL
APP	120.305, 118.555	JERSEY APPROACH
TWR	119.455	JERSEY TOWER
	121.905	JERSEY GROUND
ATIS	134.680	JERSEY INFORMATION

AD ELEVATION	277
THR ELEVATION	272
OBSTACLE ELEVATION	812 AMSL (540) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



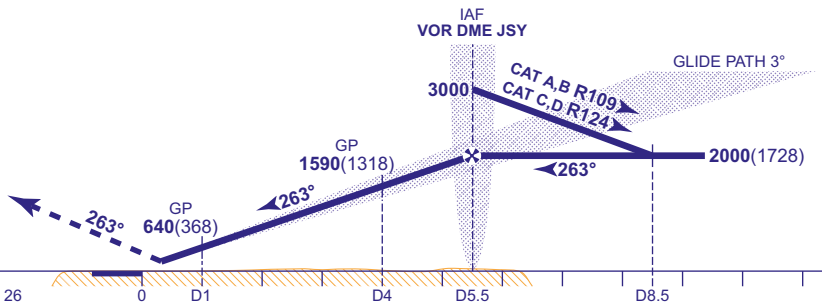
RECOMMENDED PROFILE GLIDE PATH 3°, 316FT/NM

DME I-DD	5	4	3	2	1
ALT(HGT)	**1910**(1638)	**1590**(1318)	**1270**(998)	**960**(688)	**640**(368)

RDH 52

Climb straight ahead to **3000**, then turn left heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn left direct to **VOR JSY** to join the hold at **3000**.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**439**(167)	**446**(174)	**458**(186)	**468**(196)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	840	740	630	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN (MAX 185KIAS)
Arrive at IAF VOR JSY at **3000**. Extend the outbound leg of the holding pattern descending to **2000**(1728). At I-DD D9.5 turn left onto the LOC, when established, continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-DD
MAIN PROCEDURE: Advise ATC. Radar ranges will be passed equivalent to D8.5 outbound and D4 inbound.
ALTERNATIVE PROCEDURE: Advise ATC. Radar ranges will be passed equivalent to D9.5 outbound and D4 inbound.

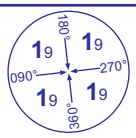
NOTE 1 Full scale fly-up indication left of C/L may not be maintained prior to joining the glide path from below.
2 Localiser fluctuations may be experienced. See EGJJ AD 2.20 Local Traffic Regulations 6(d).

CHANGE (5/25): OCA (OCH) CAT I MINIMA REVISED.

AERO INFO DATE 17 FEB 25 AD 2-EGJJ-8-6

INSTRUMENT APPROACH CHART - ICAO

JERSEY
LOC/DME/VOR
RWY 26
(ACFT CAT A,B,C,D)

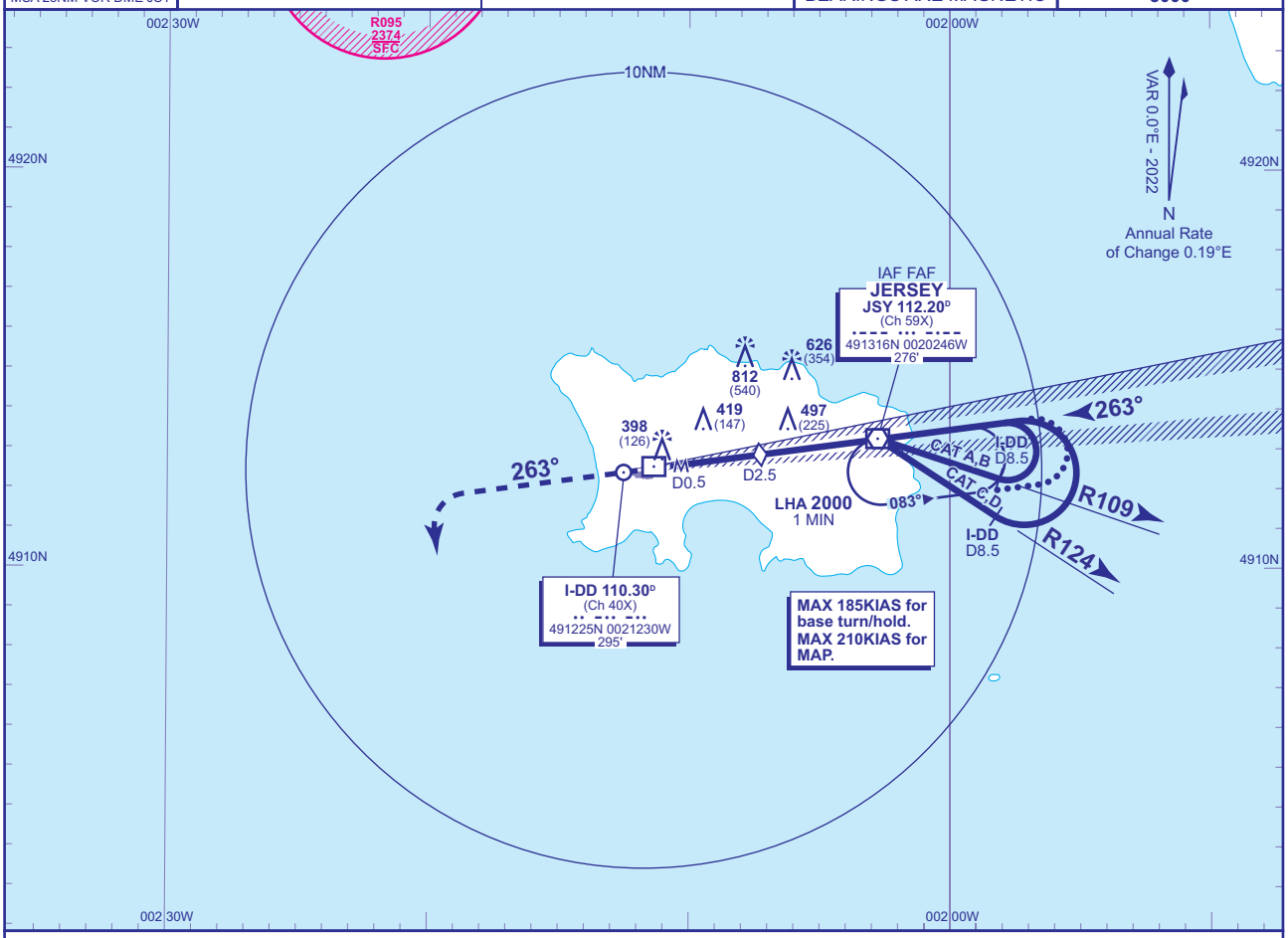


MSA 25NM VOR DME JSY

ATC	125.205, 120.450	JERSEY CONTROL
APP	120.305, 118.555	JERSEY APPROACH
TWR	119.455	JERSEY TOWER
	121.905	JERSEY GROUND
ATIS	134.680	JERSEY INFORMATION

AD ELEVATION	277
THR ELEVATION	272
OBSTACLE ELEVATION	812 AMSL (540) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



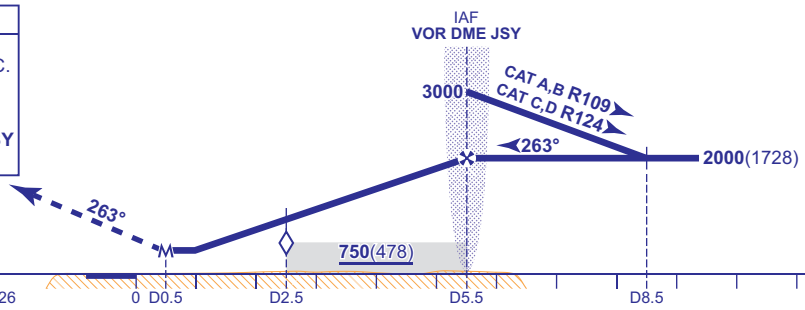
RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM

DME I-DD	5	4	3	2.5 **(SDF)**	2	1
ALT(HGT)	**1910**(1638)	**1590**(1318)	**1270**(998)	**1110**(838)	**960**(688)	**640**(368)

MAPt I-DD D0.5

Climb straight ahead to **3000**, then turn left heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn left direct to **VOR JSY** to join the hold at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**620**(348)	**620**(348)	**620**(348)	**620**(348)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	840	740	630	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN (MAX 185KIAS)
Arrive at IAF VOR JSY at **3000**. Extend the outbound leg of the holding pattern descending to **2000**(1728). At I-DD D9.5 turn left onto the LOC, when established, continue as for main procedure.

NOTE Localiser fluctuations may be experienced. See EGJJ AD 2.20 Local Traffic Regulations 6(d).

CHANGE (5/23): DME I-DD ELEVATION.

AERO INFO DATE 06 MAR 23

AD 2-EGJJ-8-7

INSTRUMENT APPROACH CHART - ICAO

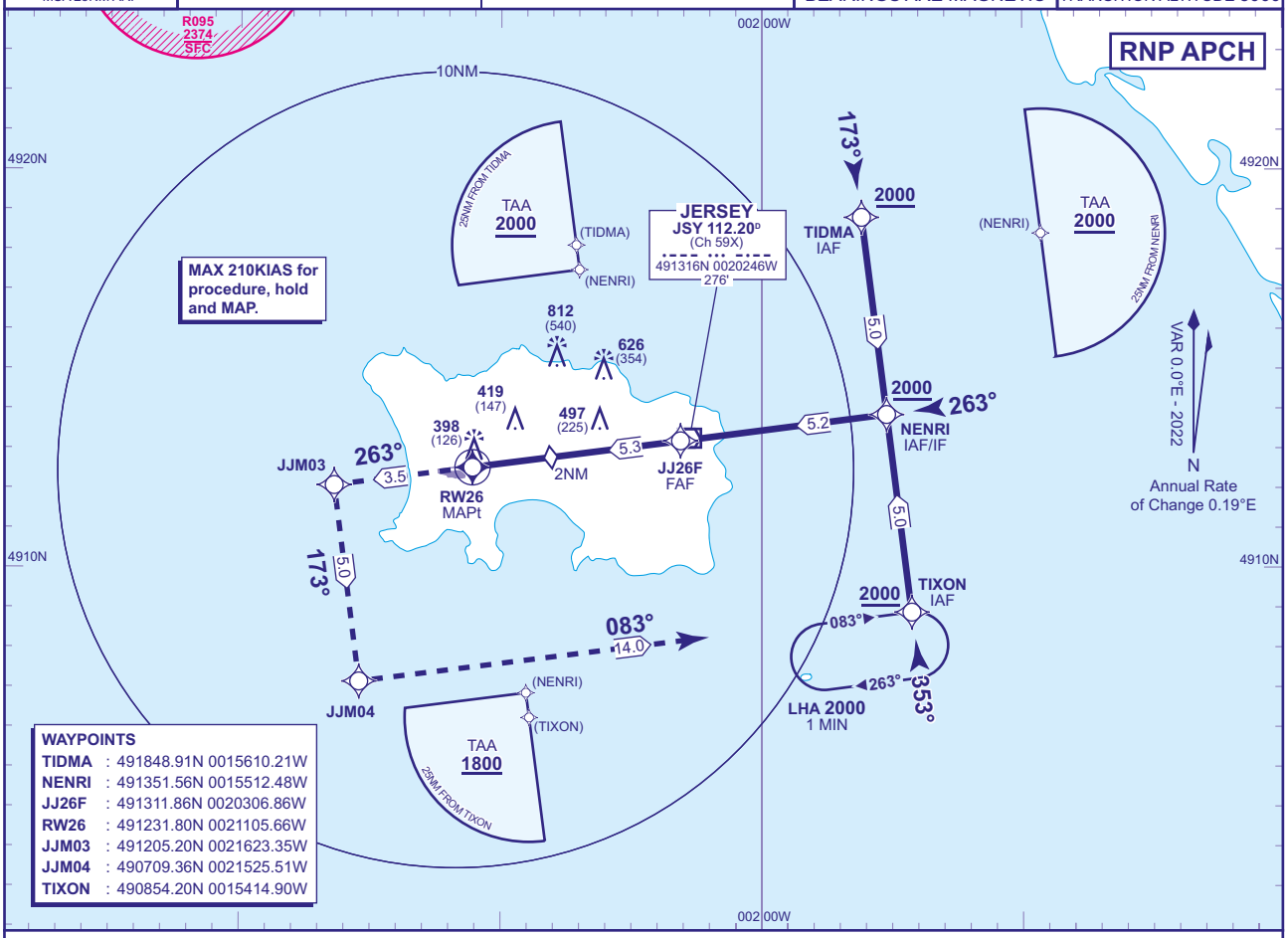
JERSEY
RNP
RWY 26
(ACFT CAT A,B,C,D)

MSA 25NM ARP

ATC	125.205, 120.450	JERSEY CONTROL
APP	120.305, 118.555	JERSEY APPROACH
TWR	119.455	JERSEY TOWER
	121.905	JERSEY GROUND
ATIS	134.680	JERSEY INFORMATION

AD ELEVATION	277
THR ELEVATION	272
OBSTACLE ELEVATION	812 AMSL (540) (ABOVE THR)
BEARINGS ARE MAGNETIC	

EGNOS **CH 63839 E26A**
MIN TEMP **-5°C**
TRANSITION ALTITUDE **5000**



WAYPOINTS

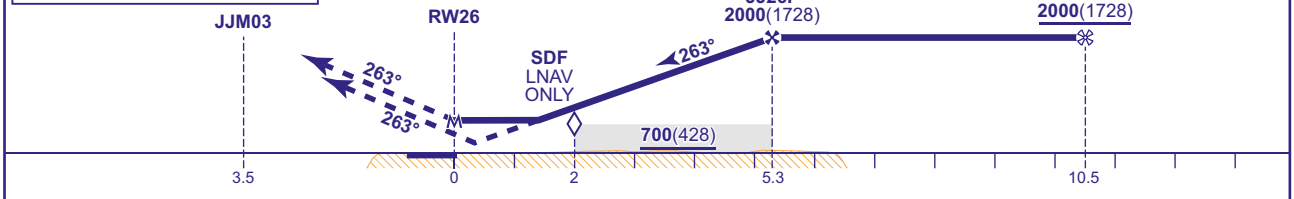
TIDMA	491848.91N 0015610.21W
NENRI	491351.56N 0015512.48W
JJ26F	491311.86N 0020306.86W
RW26	491231.80N 0021105.66W
JJM03	491205.20N 0021623.35W
JJM04	490709.36N 0021525.51W
TIXON	490854.20N 0015414.90W

RECOMMENDED PROFILE LPV/VNAV Vertical Path Angle 3.0°(LNAV 5.24%), 320FT/NM

NM to RW26	5	4	3	2 **(SDF)**	1
ALT(HGT)	**1910**(1638)	**1600**(1328)	**1280**(1008)	**960**(688)	**640**(368)

TCH 52

MAPt (LNAV): RW26
Continuous climb to **3000**. Initially climb straight ahead to **JJM03** then turn left to **JJM04** and **TIXON** to join the hold or as directed by ATC.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**LPV**	**472**(200)	**472**(200)	**472**(200)	**472**(200)
	LNAV/VNAV	**580**(308)	**580**(308)	**580**(308)	**580**(308)
	LNAV	**652**(380)	**652**(380)	**652**(380)	**652**(380)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	430

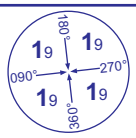
NOTE Aircraft will normally be required to hold not lower than **3000**.

CHANGE (5/25): TAA ALTITUDES REVISED.

AERO INFO DATE 17 FEB 25 AD 2-EGJJ-8-8

INSTRUMENT APPROACH CHART - ICAO

JERSEY VOR/DME RWY 26
(ACFT CAT A,B,C,D)

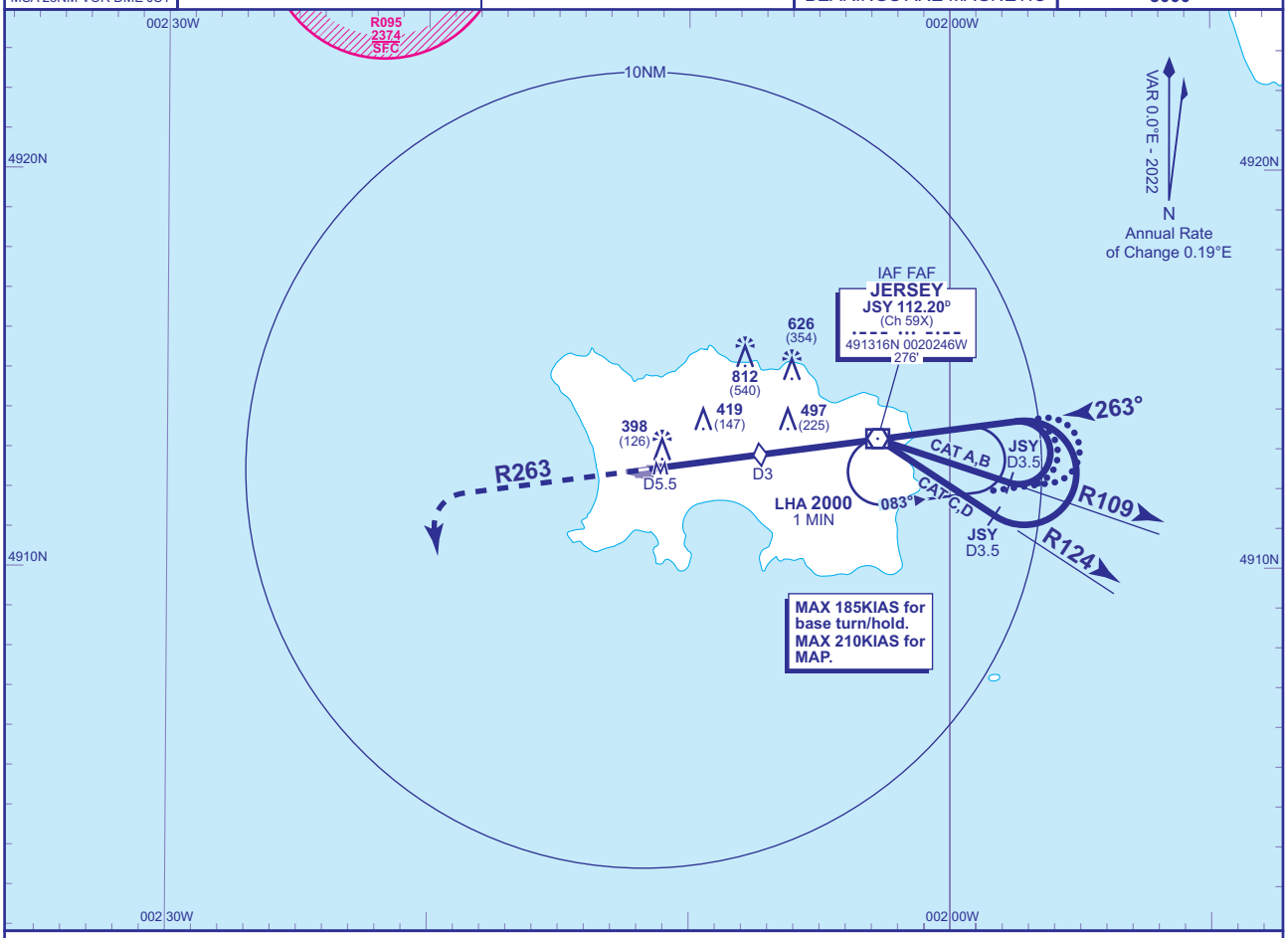


MSA 25NM VOR DME JSY

ATC	125.205, 120.450	JERSEY CONTROL	
APP	120.305, 118.555	JERSEY APPROACH	
TWR	119.455	JERSEY TOWER	
	121.905	JERSEY GROUND	
ATIS	134.680	JERSEY INFORMATION	

AD ELEVATION	277
THR ELEVATION	272
OBSTACLE ELEVATION 812 AMSL (540) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
5000



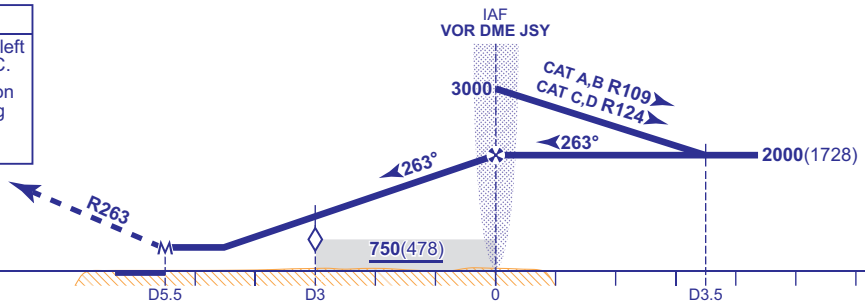
RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM

DME JSY(to THR)	1(4.5)	2(3.5)	3(2.5) **(SDF)**	4(1.5)
ALT(HGT)	**1750**(1478)	**1430**(1158)	**1110**(838)	**800**(528)

MAPt JSY DME 5.5 (THR RWY 26)

Climb straight ahead to **3000**, then turn left heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn left direct to **VOR JSY** to join the hold at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**680**(408)	**680**(408)	**680**(408)	**680**(408)
	NO DME	**750**(478)	**750**(478)	**750**(478)	**750**(478)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420
JSY to MAPt	MIN:SEC	2:03	2:21	2:45	3:18	4:07

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN (MAX 185KIAS)
From overhead IAF VOR JSY at **3000**. Extend the outbound leg of the holding pattern descending to **2000**(1728). At JSY D4 (CAT A,B); JSY D4.5 (CAT C,D) turn left onto the FAT, when established, continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME JSY
MAIN PROCEDURE: Fly outbound for 1.5MIN (CAT A,B); 1MIN (CAT C,D) prior to base turn.
ALTERNATIVE PROCEDURE: Extend outbound leg for 1.5MIN prior to base turn descending to **2000**(1728).
When established continue as for main procedure.

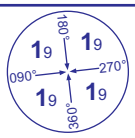
CHANGE (1/22): JSY VOR RECALIBRATED.

AERO INFO DATE 02 NOV 21

AD 2-EGJJ-8-9

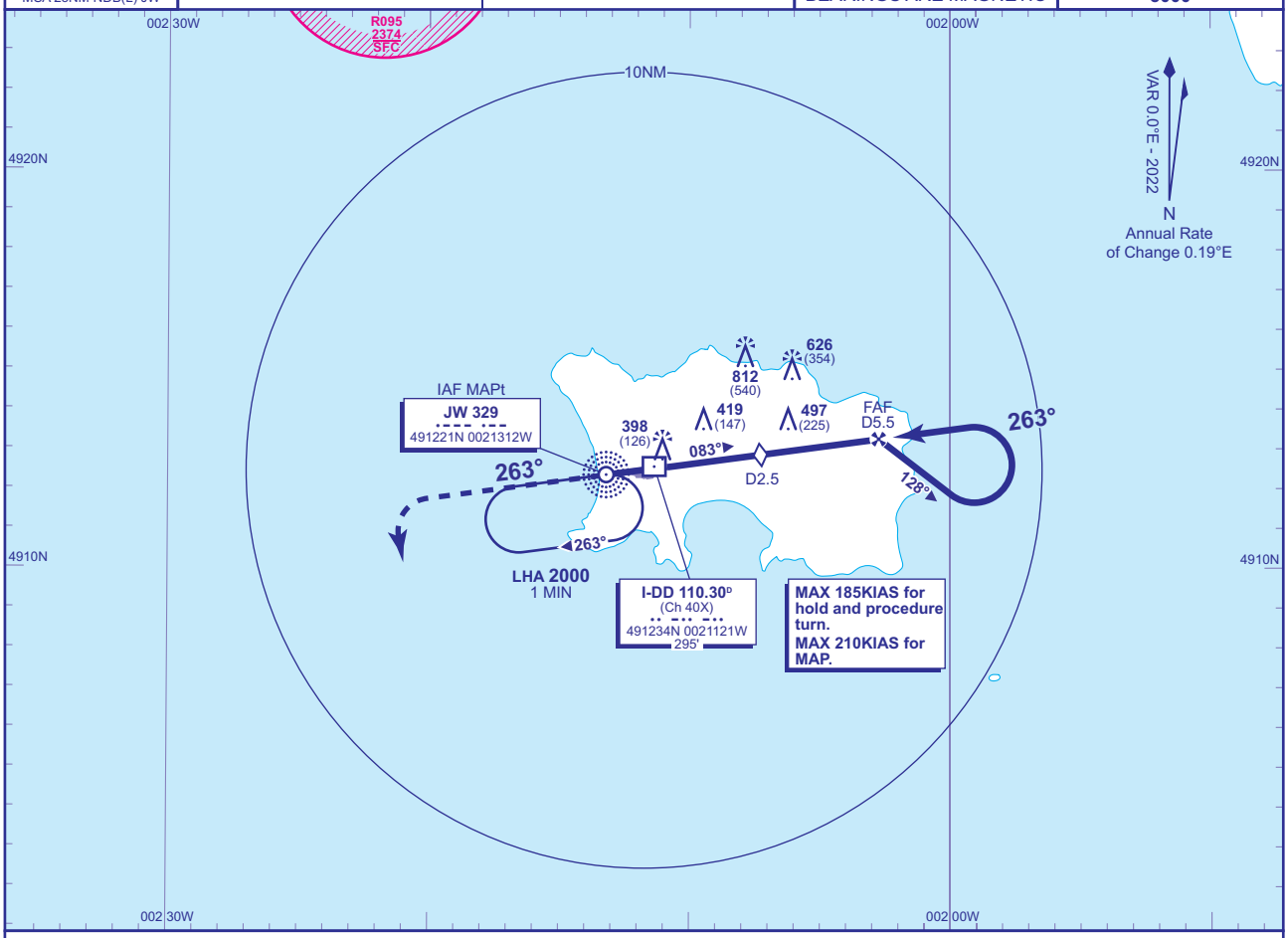
INSTRUMENT APPROACH CHART - ICAO

JERSEY
NDB(L)/DME
RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) JW

ATC	125.205, 120.450	JERSEY CONTROL	AD ELEVATION	277	TRANSITION ALTITUDE 5000
APP	120.305, 118.555	JERSEY APPROACH	THR ELEVATION	272	
TWR	119.455	JERSEY TOWER	OBSTACLE ELEVATION 812 AMSL (540) (ABOVE THR)		
	121.905	JERSEY GROUND			
ATIS	134.680	JERSEY INFORMATION	BEARINGS ARE MAGNETIC		



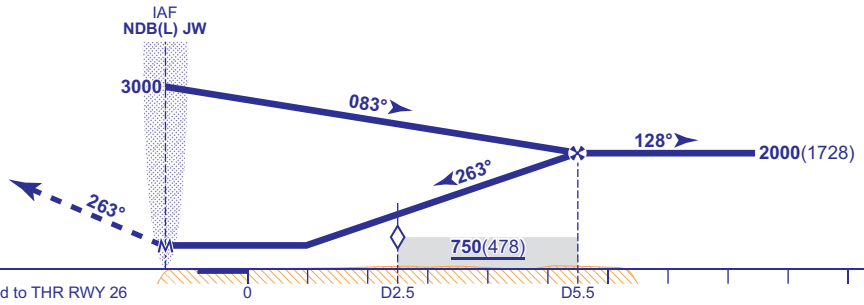
RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM

DME I-DD	5	4	3	2.5 **(SDF)**	2
ALT(HGT)	**1910**(1638)	**1590**(1318)	**1270**(998)	**1110**(838)	**960**(688)

MAPt NDB(L) JW

Climb straight ahead to **3000**, then turn left heading 180°M, then as directed by ATC.

RCF: Proceed as above, and continue on heading 180°M, 2 minutes after initiating missed approach, turn left direct to **NDB(L) JW** to join the hold at **3000**.



DME I-DD zero ranged to THR RWY 26

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**WITH DME**	**680**(408)	**680**(408)	**680**(408)	**680**(408)
	NO DME	**800**(528)	**800**(528)	**800**(528)	**800**(528)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(493)	**770**(493)	**1210**(933)	**1210**(933)
	South of RWY 08/26	**770**(493)	**770**(493)	**1030**(753)	**1030**(753)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	840	740	630	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-DD
As for main procedure except fly outbound for 2.5MIN (CAT A,B); 2MIN (CAT C,D) prior to procedure turn.

CHANGE (5/23): DME I-DD ELEVATION.

AERO INFO DATE 06 MAR 23 AD 2-EGJJ-8-10

Instrument Approach Procedure Coding Tables

Jersey RNP RWY 08 - Instrument Approach Procedure via BAGIN

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08R	001	IF	BAGIN	N	-	-	2000	210	490611.97N 0022630.93W	IAF
R08R	002	TF	GIPTA	N	353° (352.7°)	RIGHT	2000	-	491109.26N 0022729.31W	IF / 10NM
R08R	003	TF	JJ08F	N	083° (082.7°)	-	2000	-	491145.21N 0022020.93W	FAF / 5.3NM
R08R	004	TF	RW08	Y	083° (082.7°)	-	-	-	491225.44N 0021221.94W	MAPt
R08R	005	TF	JJM01	N	083° (082.8°)	RIGHT	-	210	491255.54N 0020618.83W	-
R08R	006	TF	JJM02	N	173° (172.8°)	RIGHT	-	210	490758.14N 0020521.77W	-
R08R	007	TF	GAMDU	N	263° (262.9°)	LEFT	3000	210	490735.73N 0020953.69W	HOLD

Jersey RNP RWY 08 - Instrument Approach Procedure via GIPTA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08C	002	IF	GIPTA	N	-	-	2000	-	491109.26N 0022729.31W	IAF / IF
R08C	003	TF	JJ08F	N	083° (082.7°)	-	2000	-	491145.21N 0022020.93W	FAF / 5.3NM
R08C	004	TF	RW08	Y	083° (082.7°)	-	-	-	491225.44N 0021221.94W	MAPt
R08C	005	TF	JJM01	N	083° (082.8°)	RIGHT	-	210	491255.54N 0020618.83W	-
R08C	006	TF	JJM02	N	173° (172.8°)	RIGHT	-	210	490758.14N 0020521.77W	-
R08C	007	TF	GAMDU	N	263° (262.9°)	LEFT	3000	210	490735.73N 0020953.69W	HOLD

Jersey RNP RWY 08 - Instrument Approach Procedure via LAPLI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08L	001	IF	LAPLI	N	-	-	2000	210	491606.54N 0022827.89W	IAF
R08L	002	TF	GIPTA	N	173° (172.6°)	LEFT	2000	-	491109.26N 0022729.31W	IF / 10NM
R08L	003	TF	JJ08F	N	083° (082.7°)	-	2000	-	491145.21N 0022020.93W	FAF / 5.3NM
R08L	004	TF	RW08	Y	083° (082.7°)	-	-	-	491225.44N 0021221.94W	MAPt
R08L	005	TF	JJM01	N	083° (082.8°)	RIGHT	-	210	491255.54N 0020618.83W	-
R08L	006	TF	JJM02	N	173° (172.8°)	RIGHT	-	210	490758.14N 0020521.77W	-
R08L	007	TF	GAMDU	N	263° (262.9°)	LEFT	3000	210	490735.73N 0020953.69W	HOLD

CHANGE (4/21): MAG TRACKS.
AERO INFO DATE 20 JAN 21

SBAS FAS Data Block Coding Data

Jersey RNP RWY 08

Input Data	
Parameters	**Values**
Operation Type	0
SBAS Provider	1
Airport Identifier	EGJJ
Runway	08
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E08A
LTP/FTP Latitude	491225.4415N
LTP/FTP Longitude	0021221.9405W
LTP/FTP Ellipsoidal Height (metres)	131.3
FPAP Latitude	491232.4705N
Delta FPAP Latitude (seconds)	7.0290
FPAP Longitude	0021057.6920W
Delta FPAP Longitude (seconds)	84.2485
Threshold Crossing Height	52.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	72
HAL (metres)	40.0
VAL (metres)	35.0

Output Data	
Data Block	10 0A 0A 07 05 08 00 00 01 38 30 05 C3 0C 1E 15 97 A1 0D FF 21 19 EA 36 00 31 92 02 08 02 2C 01 64 09 C8 AF E9 8E 19 0A
Calculated CRC Value	E98E190A

Additional Data	
Parameters	**Values**
ICAO Code	EG
LTP/FTP Orthometric Height (metres)	82.5
FPAP Orthometric Height (metres)	82.8

CHANGE (11/20): RNP REFERENCES ADDED.
AERO INFO DATE 06 JUL 20

Instrument Approach Procedure Coding Tables

Jersey RNP RWY 26 - Instrument Approach Procedure via TIDMA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26R	001	IF	TIDMA	N	-	-	2000	210	491848.91N 0015610.21W	IAF
R26R	002	TF	NENRI	N	173° (172.8°)	RIGHT	2000	-	491351.56N 0015512.48W	IF / 10.5NM
R26R	003	TF	JJ26F	N	263° (262.8°)	-	2000	-	491311.86N 0020306.86W	FAF / 5.3NM
R26R	004	TF	RW26	Y	263° (262.8°)	-	-	-	491231.80N 0021105.66W	MAPt
R26R	005	TF	JJM03	N	263° (262.8°)	LEFT	-	210	491205.20N 0021623.35W	-
R26R	006	TF	JJM04	N	173° (172.7°)	LEFT	-	210	490709.36N 0021525.51W	-
R26R	007	TF	TIXON	N	083° (082.7°)	RIGHT	3000	210	490854.20N 0015414.90W	HOLD

Jersey RNP RWY 26 - Instrument Approach Procedure via NENRI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26C	002	IF	NENRI	N	-	-	2000	-	491351.56N 0015512.48W	IAF / IF
R26C	003	TF	JJ26F	N	263° (262.8°)	-	2000	-	491311.86N 0020306.86W	FAF / 5.3NM
R26C	004	TF	RW26	Y	263° (262.8°)	-	-	-	491231.80N 0021105.66W	MAPt
R26C	005	TF	JJM03	N	263° (262.8°)	LEFT	-	210	491205.20N 0021623.35W	-
R26C	006	TF	JJM04	N	173° (172.7°)	LEFT	-	210	490709.36N 0021525.51W	-
R26C	007	TF	TIXON	N	083° (082.7°)	RIGHT	3000	210	490854.20N 0015414.90W	HOLD

Jersey RNP RWY 26 - Instrument Approach Procedure via TIXON

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26L	001	IF	TIXON	N	-	-	2000	210	490854.20N 0015414.90W	IAF
R26L	002	TF	NENRI	N	353° (352.8°)	LEFT	2000	-	491351.56N 0015512.48W	IF / 10.5NM
R26L	003	TF	JJ26F	N	263° (262.8°)	-	2000	-	491311.86N 0020306.86W	FAF / 5.3NM
R26L	004	TF	RW26	Y	263° (262.8°)	-	-	-	491231.80N 0021105.66W	MAPt
R26L	005	TF	JJM03	N	263° (262.8°)	LEFT	-	210	491205.20N 0021623.35W	-
R26L	006	TF	JJM04	N	173° (172.7°)	LEFT	-	210	490709.36N 0021525.51W	-
R26L	007	TF	TIXON	N	083° (082.7°)	RIGHT	3000	210	490854.20N 0015414.90W	HOLD

CHANGE (11/20): RNP REFERENCES ADDED. LEVEL CONSTRAINT AT JJ26F. DESIGNATORS.
AERO INFO DATE 06 JUL 20

SBAS FAS Data Block Coding Data

Jersey RNP RWY 26

Input Data	
Parameters	**Values**
Operation Type	0
SBAS Provider	1
Airport Identifier	EGJJ
Runway	26
Runway Direction	0
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E26A
LTP/FTP Latitude	491231.8010N
LTP/FTP Longitude	0021105.6645W
LTP/FTP Ellipsoidal Height (metres)	131.6
FPAP Latitude	491224.8745N
Delta FPAP Latitude (seconds)	-6.9265
FPAP Longitude	0021228.7365W
Delta FPAP Longitude (seconds)	-83.0720
Threshold Crossing Height	52.0
TCH Units Selector	0
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	136
HAL (metres)	40.0
VAL (metres)	35.0

Output Data	
Data Block	10 0A 0A 07 05 1A 00 00 01 36 32 05 72 3E 1E 15 7F F5 0F FF 24 19 E3 C9 FF 00 77 FD 08 02 2C 01 64 11 C8 AF E8 4E 4A F9
Calculated CRC Value	E84E4AF9

Additional Data	
Parameters	**Values**
ICAO Code	EG
LTP/FTP Orthometric Height (metres)	82.8
FPAP Orthometric Height (metres)	82.5

CHANGE (11/20): RNP REFERENCES ADDED.
AERO INFO DATE 06 JUL 20

EGBP — KEMBLE

EGBP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBP — KEMBLE

EGBP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 514005N Long: 0020325W Mid-point of Runway 08/26
2	Direction and distance from city	4.5 NM SW of Cirencester.
3	Elevation / Reference temperature / Mean Low Temperature	436 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	160 FT
5	Magnetic Variation / Annual Change	0.16°W (2022) / 0.20°E
6	AD Administration Address Telephone Telefax E-mail address Web address	KEMBLE AIR SERVICES LIMITED The Control Tower, Kemble Airfield, Cirencester, Gloucestershire GL7 6BA. 01285-771177 (Kemble Ops) 01285-771318 ops@cotswoldairport.com http://www.cotswoldairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	GA Agreement aerodrome. Refer to GEN 1.2 for notification requirements. Designated aerodrome for Special Branch purposes.

EGBP AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600); and by arrangement.
2	Customs and immigration	By arrangement. Minimum notice periods apply.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours, in Operations Department. Self briefing.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As AD hours, in Operations Department. Self briefing.
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	Last uplift 15 minutes before aerodrome closes; and by arrangement.
9	Handling	As AD hours and by arrangement.
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR by telephone at all times. Out of hours movements, refuelling and night flying by arrangement. AD may close during adverse weather conditions including snow.

EGBP AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By Arrangement.
2	Fuel and oil types	AVTUR JET A1 (F35), AVGAS 100LL W80, W100, 80, 100, 15W50
3	Fuelling facilities/capacity	AVGAS 100LL fuel installation is self service (pay at pump). Mobile bowser available. Jet fuel requirements by arrangement with Kemble Ops before uplift.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	Limited.
7	Remarks	Handling service contacts: Operations - Kemble Air Services Ltd. Tel: +44 (0)1285-771177 Email: ops@cotswoldairport.com

EGBP AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in vicinity.
2	Restaurants	On aerodrome.
3	Transportation	Taxis and car hire available by pre-booking through handling agent. Nearest railway station: 1 mile.
4	Medical facilities	Limited first aid.
5	Bank and Post Office	Bank 5 miles. Post Office 1 mile.
6	Tourist Office	5 miles.
7	Remarks	Accommodation and transportation arrangements can be made via handling agent.

EGBP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	In the event of an incident, light aircraft can be removed using airport resources. Large aircraft can be removed using outside sources in conjunction with aircraft operators.
4	Remarks	

EGBP AD 2.7 SEASONAL AVAILABILITY - CLEARING

INTENTIONALLY BLANK

EGBP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	ALPHA/TOWER APRON Surface: Grass BELFAST APRON Surface: Asphalt PCR 400/F/C/W/U D SITE APRON Surface: Asphalt PCR 400/F/C/W/U G SITE AREA Surface: Concrete PCR 120/R/C/W/U NORTH APRON Surface: Asphalt PCR 400/F/C/W/U
2	Taxiway width, surface and strength	Taxiway A A3-A4: 23 M Surface: Macadam PCR 400/F/C/W/U Taxiway A A4-A5: 15 M Surface: Macadam PCR 400/F/C/W/U Taxiway A A5-H SITE: 10.5 M Surface: Macadam PCR 400F/C/W/U Taxiway A RWY-A2: 10.5 M Surface: Macadam PCR 400/F/C/W/U

		Taxiway B RWY-NORTH APRN: 15 M Surface: Macadam PCR 400/F/C/W/U Taxiway C RWY-RWY: 10.5 M Surface: Macadam PCR 400/F/C/W/U Taxiway D D2-W/SIDE APRN: 10.5 M Surface: Macadam PCR 400/F/C/W/U Taxiway D RWY-D2: 15 M Surface: Macadam PCR 400/F/C/W/U Taxiway G G1-TWY D: 7.5 M Surface: Grass
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGBP AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stand 1, 2, 3 and 4 on D-site apron, have self-manoeuvring markings. Stands 1-3 are suitable for aircraft with a maximum wingspan of 28 M. Entrance to Stands 1-3 are via Taxiway G. Entrance to Stand 4 is via Taxiway A and is suitable for B737-800 and A321.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 08/26: Runway designation, threshold and centre-line, touchdown zone and fixed distances. Runway width is designated by side stripe markings. Runway light(s): Runway edge and end of pavement lights. Amber guard lights at Alpha 3, Bravo 1 and Delta 1. Taxiway marking aid(s): Taxiways A, B, C, D have yellow centre-line and edge markings. Taxiway light(s): Illuminated Hold boards at Alpha 3, Bravo 1 and Delta 1.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	3 WDIs: 514004.63N 0020303.21W; 514004.67N 0020353.63W; 514002.65N 0020322.54W (LGTD) abeam control tower, mid-point Runway 08/26. All Runway and taxiway marking are to EASA/ICAO standard not CAA.

EGBP AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBP6760) 26/APPROACH 08/ TAKE-OFF	HANGAR L	514013.42N 0020257.04W	472 FT		Yes Red	
(EGBP6605) 26/APPROACH 08/ TAKE-OFF	D2 WALL	514012.69N 0020257.25W	457 FT		No	
(EGBP7160) 26/APPROACH 08/ TAKE-OFF	ROAD 4 8M	514006.76N 0020238.67W	421 FT		No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBP6509) 08/APPROACH 26/ TAKE-OFF	MAST	514001.70N 0020450.99W	488 FT		No	
(EGBP7521) 08/APPROACH 26/ TAKE-OFF	TREE	514000.98N 0020513.70W	522 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBP4293)	TREE	514229.26N 0020605.04W	668 FT		No	
(EGBP4298)	TREE	514158.78N 0020504.45W	622 FT		No	
(EGBP6703)	AERIAL	514011.02N 0020326.45W	489 FT		No	

EGBP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone through Kemble Operations Department.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	Form 214/215/415 TAF/METAR AIRMET. Internet access.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	KEMBLE
10	Additional information (limitation of service, etc.)	Unofficial observations made during AD hours.

EGBP AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
08	080.41°	1972 x 43 M	RWY surface: Asphalt PCR 400/F/C/W/U	514000.60N 0020407.12W 159.9 FT	THR 433.4 FT	
26	260.43°	1972 x 43 M	RWY surface: Asphalt PCR 400/F/C/W/U	514009.33N 0020243.97W 159.8 FT	THR 411.1 FT	
08G	080.37°	561 x 18 M	RWY surface: Grass	514006.96N 0020334.09W 159.9 FT	THR 434.5 FT	
26G	260.37°	561 x 18 M	RWY surface: Grass	514010.00N 0020305.28W 159.9 FT	THR 428.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1917 x 150 M	158 x 90 M -			RWY 08 Threshold displaced by 170 M. The longitudinal slope for Runway 08/26 exceeds the 1.5% maximum slope for 95 M starting from the threshold of Runway 26. The local slope is 1.66% up. Elevated Aerodrome Ground Lighting mounted on white edge markings, 1 M in from runway physical edge. OFZ: Yes.
		1917 x 150 M	90 x 90 M -			RWY 26 Threshold displaced by 183 M. The longitudinal slope for Runway 08/26 exceeds the 1.5% maximum slope for 95 M starting from the threshold of Runway 26. The local slope is 1.66% up. Elevated Aerodrome Ground Lighting mounted on white edge markings, 1 M in from runway physical edge. OFZ: Yes.
		621 x 60 M				RWY 08G
		621 x 60 M				RWY 26G

EGBP AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	1758 M	1758 M	1798 M	1778 M	
26	1799 M	1799 M	1799 M	1640 M	
08	1149 M	1149 M	1189 M		Take-off from intersection of Taxiway D.
08	975 M	975 M	1015 M		Take-off from intersection of Taxiway B.
26	1410 M	1410 M	1410 M		Take-off from intersection of Taxiway A.
26	637 M	637 M	637 M		Take-off from intersection of Taxiway B.
08G	561 M	561 M	561 M	561 M	
26G	561 M	561 M	561 M	561 M	

EGBP AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08		Light intensity high Elevated green wingbars	APAPI Left/3° 29 FT 184 M			Elevated bi-directional 60 M spacing White Light intensity high	Red		
26		Light intensity high Elevated green wingbars	APAPI Left/3° 29 FT 138 M			Elevated bi-directional 60 M spacing White Light intensity high	Red		

EGBP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 514011.31N 0020326.56W Flashes during published hours. When aerodrome is open.
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	EDGE: Elevated blue edge lights on Taxiway B and North Apron. Blue reflective markers on Taxiway D, from Taxiway B to Woodside apron.
4	Secondary power supply/switch-over time	
5	Remarks	

EGBP AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF A: 514011.90N 0020310.68W, 159.9 FT TLOF B: 514009.82N 0020349.31W, 159.9 FT
2	TLOF and/or FATO elevation	TLOF A: 434.1 FT TLOF B: 434.6 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Helipad A located on Stand 1 (D-site apron). Helipad B located on North Apron.

EGBP AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
KEMBLE ATZ A circle, 2 NM radius, centred at 514005N 0020325W on longest notified runway (08/ 26)	Upper limit: 2000 FT AGL Lower limit: SFC	G	KEMBLE INFORMATION English	3000 FT		

EGBP AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	KEMBLE INFORMATION	118.430 DOC 25 NM/4,000 FT.			0900-1700 (0800-1600); and by arrangement.	ATZ hours H24.

EGBP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

INTENTIONALLY BLANK

EGBP AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Special procedures are in force for some flying events, details as published by AIC and NOTAM.
b) Non-Radio aircraft not accepted.
c) While airside each aircraft commander is responsible for the safety of his passengers and other crew members. Passengers are at all times to be escorted by the aircraft commander or crew member who is known to be competent to ensure his/her and the passengers safety. The wearing of high visibility clothing is mandatory.
d) Aircraft commanders or crew members, as applicable, are responsible for ensuring that a total ban on smoking whilst airside is observed.
e) Aerodrome is not available when closed/out of published hours, to aircraft without a valid out of hours indemnity form.

2 GROUND MOVEMENT

a) Vehicles cross the runway at 08 threshold under traffic light control during aerodrome operating hours.
b) Taxiway Alpha between A1-A2 and Taxiway Charlie may be closed at any time. Essential aerodrome information will be provided by Kemble AFIS.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Be aware of proximity of Aston Down gliding centre 4 NM NW, winch launching to 3000 FT AGL. Avoid South Cerney to the east, it is regularly active up to FL 120 with para dropping.
b) High performance aircraft occasionally carry out non-standard manoeuvres.
c) Windshear or turbulence may be experienced on final approach to Runway 26 in strong southerly or north westerly winds.
d) Grass areas, including grass runway 08/26 and golf taxiway, are subject to restricted use or closure due to waterlogging and subsequent soak away, during and following periods of wet weather.
e) During moderate/heavy rain, standing water forms at the runway edge on the start of Taxiway Delta. This may take up to 48 hours to drain.
f) Model flying operates from the south west corner of the aerodrome, position 513948.10N 0020349.60W, up to 200 FT and occasionally up to 400 FT, during daylight hours up to 2000 HR.
g) Kemble is a protected aerodrome and is situated within an FRZ/RPZ.

5 HELICOPTER OPERATIONS

a) All rotary traffic to call for engine/rotor start.
b) Helicopters may operate south of Runway 08/26 (asphalt) for training up to 700 FT AAL, inside the fixed wing circuit.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

a) All circuit training strictly PPR.

EGBP AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots should avoid overflying the villages and hamlets of Kemble, Kemble Wick, Rodmarton, Culkerton, Ashley and Chelworth, wherever possible.
b) Contact Kemble Operations for detailed noise abatement procedures.

EGBP AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit Heights: Jet circuit 1500 FT AAL. Fixed-wing 1000 FT AAL.
b) The standard circuit patterns are Right hand Runway 08 and Left hand on Runway 26.
c) All fixed wing GA traffic to join overhead.

2 IFR DEPARTURES JOINING AIRWAYS

a) Aircraft departing Kemble IFR to the east or west should plan to join controlled airspace at CONKO.

Note: *KENET and CPT flight plans can all expect a CONKO join.*

b) Aircraft departing Kemble IFR to the north east should plan to join controlled airspace at either DAVENTRY (DTY) or HONILEY (HON).
c) Aircraft departing Kemble IFR to the north west should plan to join controlled airspace at KISWO.

3 INSTRUMENT APPROACH PROCEDURES

a) IAPs at Cotswold/Kemble are established outside CAS.
b) There may be other airspace activity not known to Cotswold/Kemble within RAF Brize Norton's CAS and within Class G in VMC and IMC.
c) All IAPs must have a pre-booked approach time slot from Cotswold Airport's Ops on 01285-771177.
d) All IAP slot timings must be adhered to, in order to maintain separation.
e) For a BUSVE IAF join, a CAS zone transit is required from RAF Brize Norton ATC on 119.005.
f) RAF Brize Norton will not provide an approach service for aircraft arriving at Kemble.

EGBP AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBP AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBP-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGBP-2-2
INSTRUMENT APPROACH CHART RNP RWY 08 - ICAO
AD 2.EGBP-8-1
INSTRUMENT APPROACH CHART RNP RWY 26 - ICAO
AD 2.EGBP-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 08
AD 2.EGBP-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 26
AD 2.EGBP-8-4

EGBP AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

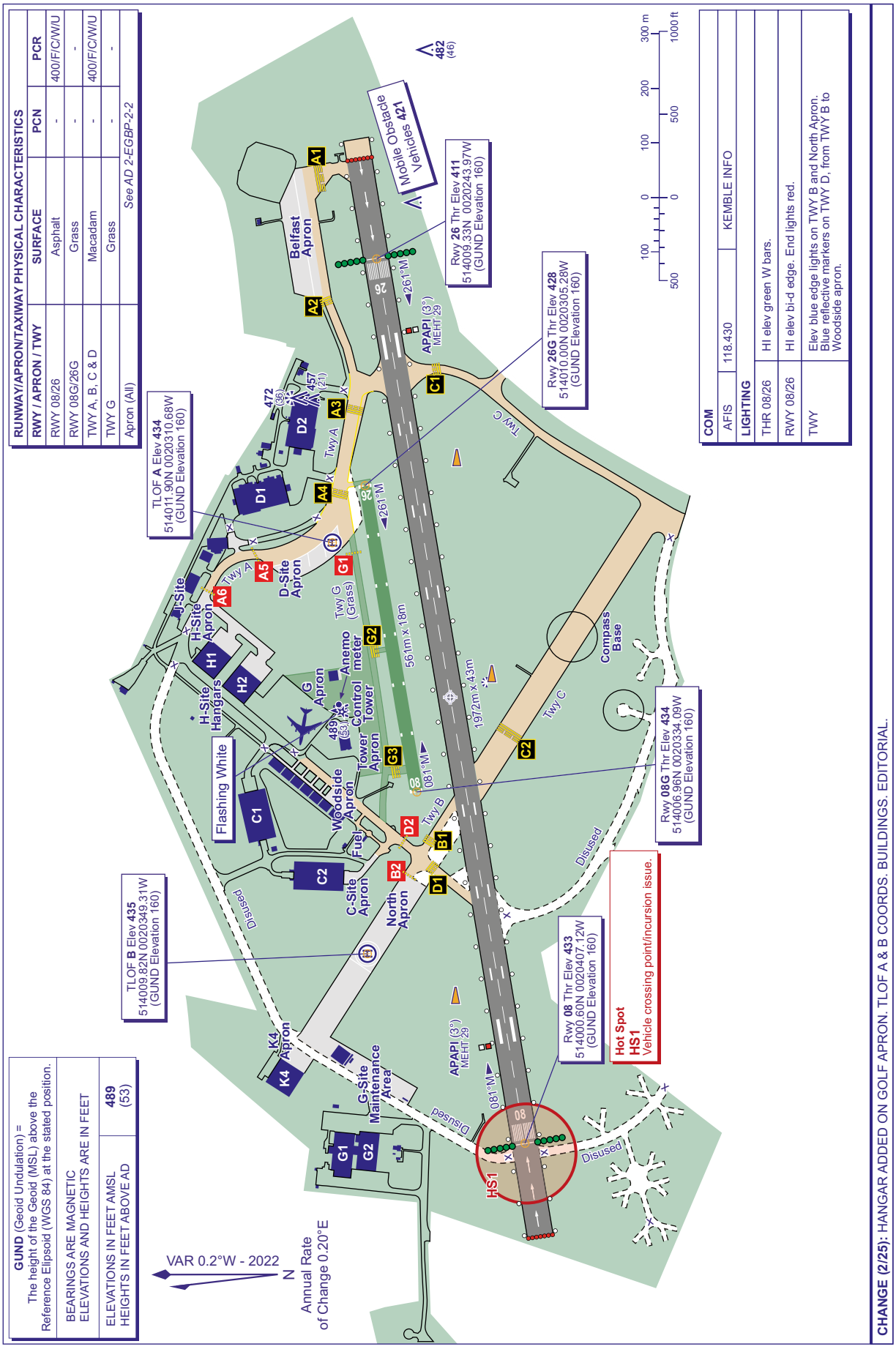
Not applicable

KEMBLE EGBP

AERODROME CHART - ICAO

ARP 514005N 0020325W

AD ELEV 436FT

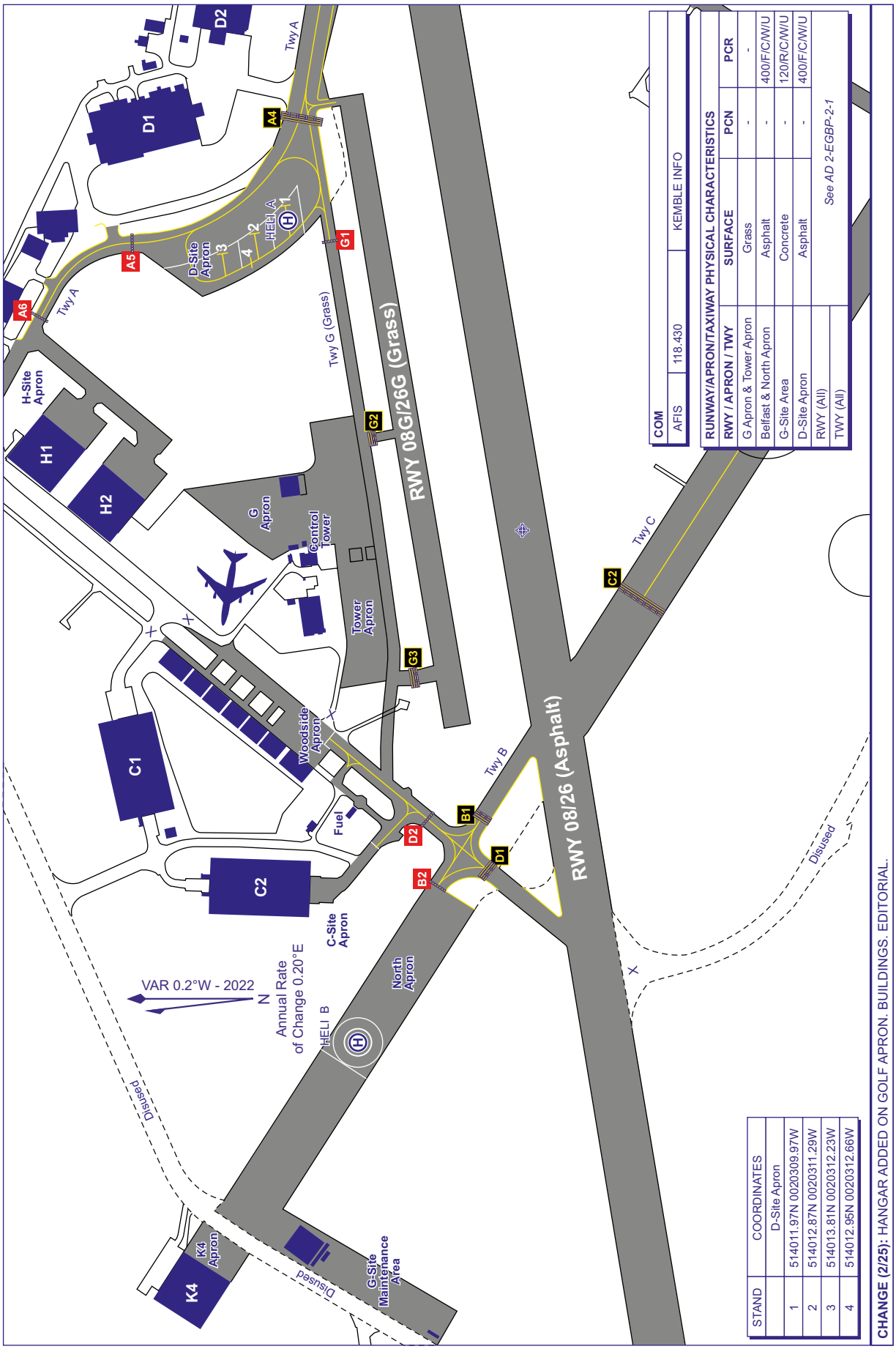


KEMBLE EGBP

AD ELEV 436FT

ARP 514005N 0020325W

AIRCRAFT PARKING/DOCKING CHART - ICAO



COM	
AFIS	118.430
KEMBLE INFO	

RUNWAY/APRON/TAXIWAY PHYSICAL CHARACTERISTICS			
RWY / APRON / TWY	SURFACE	PCN	PCR
G Apron & Tower Apron	Grass	-	-
Belfast & North Apron	Asphalt	-	400/F/C/W/U
G-Site Area	Concrete	-	120/R/C/W/U
D-Site Apron	Asphalt	-	400/F/C/W/U
RWY (All)	See AD 2-EGBP-2-1		
TWY (All)			

STAND	COORDINATES
	D-Site Apron
1	514011.97N 0020309.97W
2	514012.87N 0020311.29W
3	514013.81N 0020312.23W
4	514012.95N 0020312.66W

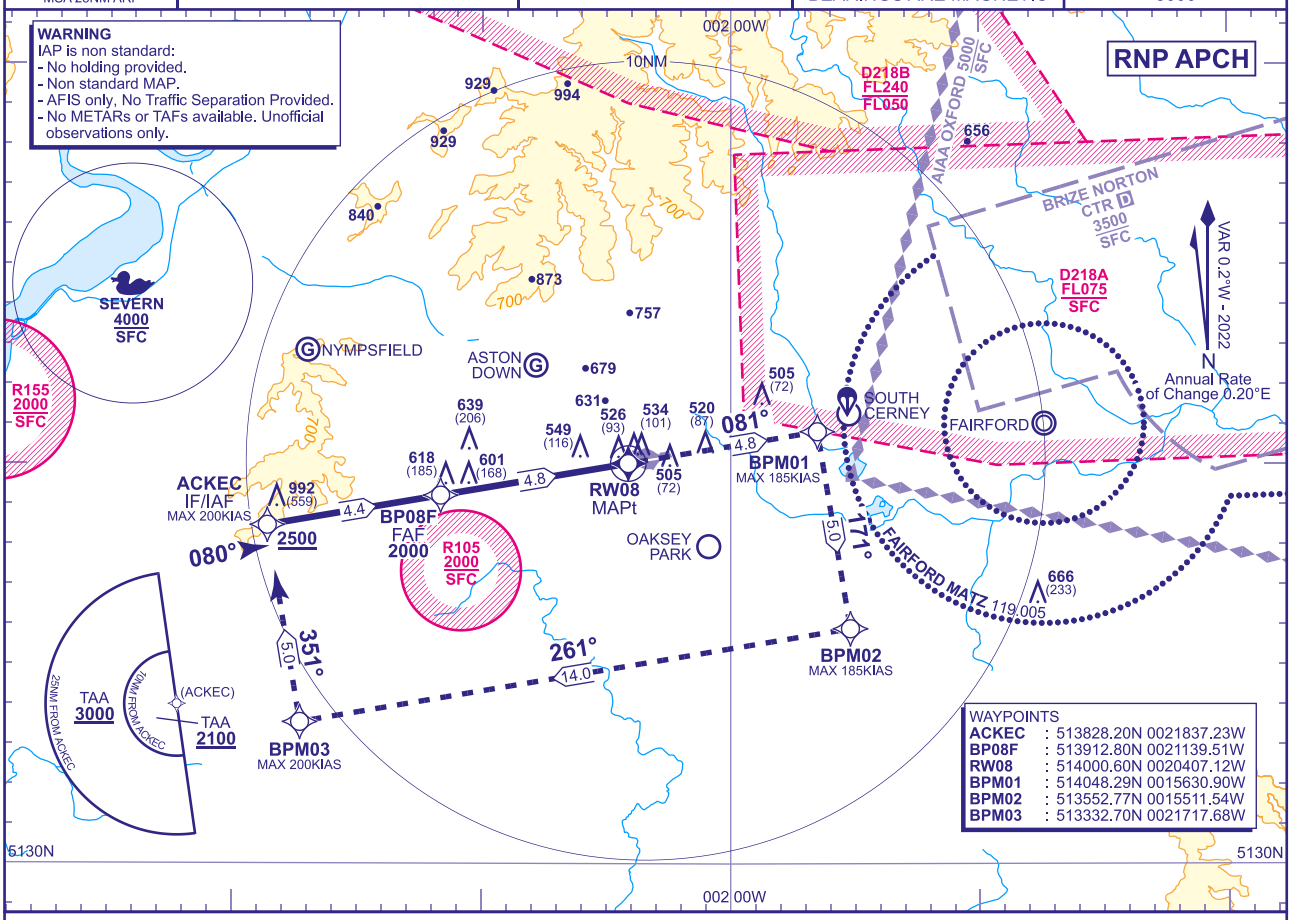
CHANGE (2/25): HANGAR ADDED ON GOLF APRON. BUILDINGS. EDITORIAL.

AERO INFO DATE 09 DEC 24

INSTRUMENT APPROACH CHART - ICAO

KEMBLE
RNP
RWY 08
(ACFT CAT A,B,C,D)

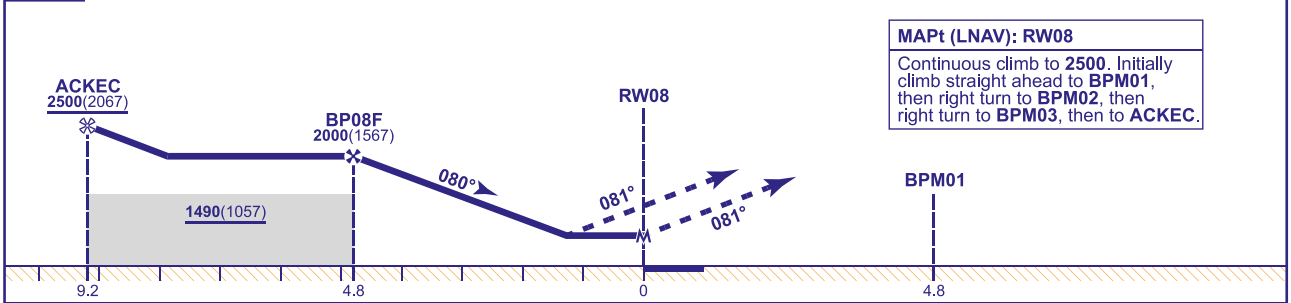
2 5 MSA 25NM ARP	AFIS 118.430	KEMBLE INFORMATION	AD ELEVATION 436	MIN TEMP -10C
	LARS 124.280	BRIZE RADAR	THR ELEVATION 433	TRANSITION ALTITUDE 3000
	ZONE 119.005	BRIZE ZONE	OBSTACLE ELEVATION 992 AMSL (559) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE VNAV Vertical Path Angle 3.0° (LNAV 5.24%), 319FT/NM

NM to RW08	4	3	2
ALT(HGT)	**1760**(1327)	**1440**(1007)	**1120**(687)

TCH 50



MAPt (LNAV): RW08
Continuous climb to **2500**. Initially climb straight ahead to **BPM01**, then right turn to **BPM02**, then right turn to **BPM03**, then to **ACKEC**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**940**(507)	**940**(507)	**1040**(607)	**1140**(707)
	LNAV	**940**(507)	**940**(507)	**1040**(607)	**1140**(707)
VM(C)OCA (OCH AAL)	Total Area	**950**(514)	**980**(544)	**1160**(724)	**1270**(834)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE
1 IAP only available during notified ATZ HRS and AFIS available.
2 IAP is in Class G Airspace.
3 Pilots are advised of gliding activity in the vicinity of Kemble.
4 Pilots are advised of IAPs to RWY 07/25 at RAF Brize Norton.
5 RAF Fairford notified operational by NOTAM.
6 Use of IAP is strictly PPR from the aerodrome operator.
7 Pilots are required to remain clear of controlled airspace during the missed approach.
8 RAF Brize Norton frequencies are intended for transit and/or a LARS service only and do not provide approach to Cotswold airport as described in the pilot brief.

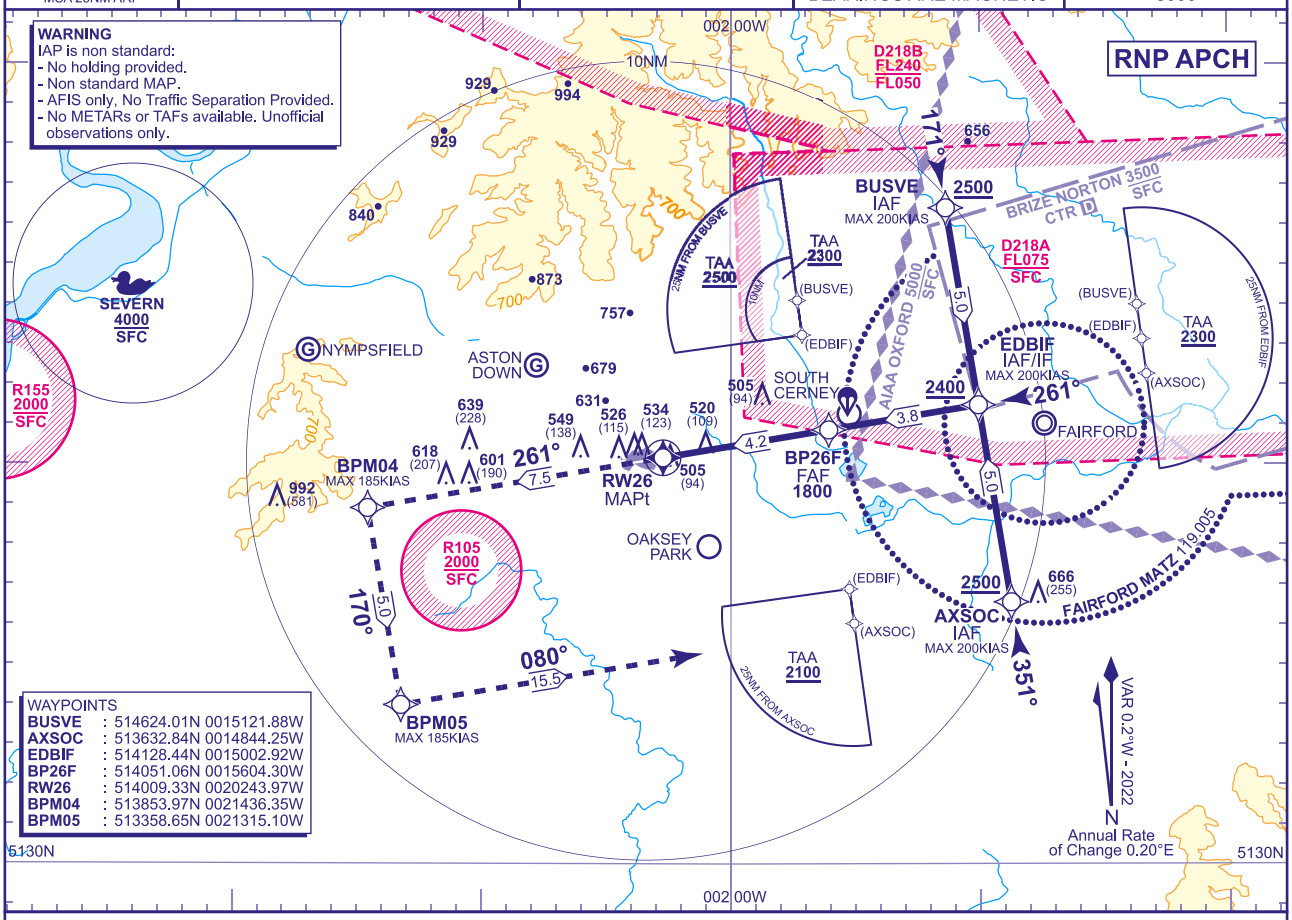
CHANGE (2/25): FREQUENCIES. FAIRFORD MATZ. SEVERN AREA. SPECIFICATION CHANGE.

AERO INFO DATE 02 DEC 24

INSTRUMENT APPROACH CHART - ICAO

KEMBLE
RNP
RWY 26
(ACFT CAT A,B,C,D)

2 5 MSA 25NM ARP	AFIS 118.430	KEMBLE INFORMATION	AD ELEVATION 436	MIN TEMP -10C
	LARS 124.280	BRIZE RADAR	THR ELEVATION 411	TRANSITION ALTITUDE 3000
	ZONE 119.005	BRIZE ZONE	OBSTACLE ELEVATION 992 AMSL (581) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

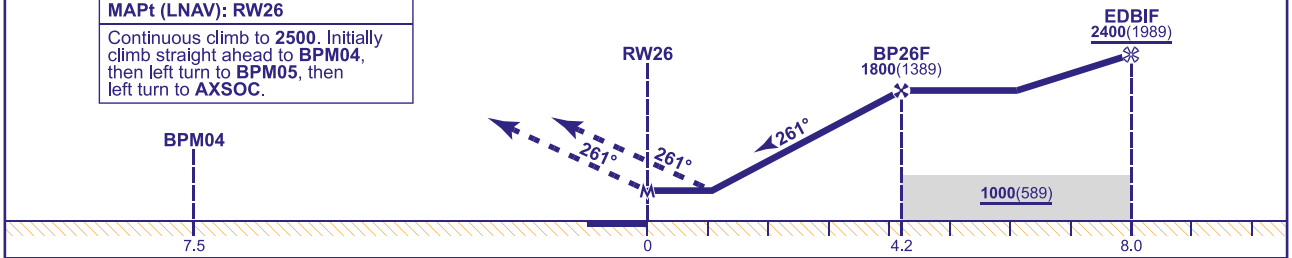


RECOMMENDED PROFILE VNAV Vertical Path Angle 3.0° (LNAV 5.24%), 319FT/NM

NM to RW26	4	3	2
ALT(HGT)	**1730**(1319)	**1420**(1009)	**1100**(689)

TCH 50

MAPt (LNAV): RW26
Continuous climb to **2500**. Initially climb straight ahead to **BPM04**, then left turn to **BPM05**, then left turn to **AXSOC**.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**920**(509)	**920**(509)	**1020**(609)	**1120**(709)		FT/MIN	850	740	640	530	420
	LNAV	**920**(509)	**920**(509)	**1020**(609)	**1120**(709)							
VM(C)OCA (OCH AAL)	Total Area	**950**(514)	**980**(544)	**1160**(724)	**1270**(834)							

NOTE
1 IAP only available during notified ATZ HRS and AFIS available.
2 IAP is in Class D and G Airspace. Pilots are required to co-ordinate their approach with 124.280 Brize Radar prior to commencing the approach either by direct communication with 124.280 Brize Radar or via Kemble FIS.
3 Pilots are advised of gliding activity in the vicinity of Kemble.
4 Pilots are advised of IAPs to RWY 07/25 at RAF Brize Norton.
5 RAF Fairford notified operational by NOTAM.
6 Use of IAP is strictly PPR from the aerodrome operator.
7 RAF Brize Norton frequencies are intended for transit and/or a LARS service only and do not provide approach to Cotswold airport as described in the pilot brief.

CHANGE (2/25): FREQUENCIES. FAIRFORD MATZ. SEVERN AREA. SPECIFICATION CHANGE.

AERO INFO DATE 03 DEC 24 AD 2-EGBP-8-2

Instrument Approach Procedure Coding Tables

KEMBLE RNP RWY 08 - Instrument Approach Procedure via ACKEC

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08	001	IF	ACKEC	N	-	-	2500	-200	513828.20N 0021837.23W	IAF / IF / 9.2NM
R08	002	TF	BP08F	N	080° (080.2°)	-	2000	-	513912.80N 0021139.51W	FAF / 4.8NM
R08	003	TF	RW08	Y	080° (080.3°)	-	-	-	514000.60N 0020407.12W	MAPt
R08	004	TF	BPM01	N	081° (080.4°)	RIGHT	-	-185	514048.29N 0015630.90W	-
R08	005	TF	BPM02	N	171° (170.5°)	RIGHT	-	-185	513552.77N 0015511.54W	-
R08	006	TF	BPM03	N	261° (260.5°)	RIGHT	-	-200	513332.70N 0021717.68W	-
R08	007	TF	ACKEC	N	351° (350.5°)	-	2500	-200	513828.20N 0021837.23W	-

CHANGE (2/25): CHART SPECIFICATION.
AERO INFO DATE 02 DEC 24

Instrument Approach Procedure Coding Tables

KEMBLE RNP RWY 26 - Instrument Approach Procedure via BUSVE

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26R	001	IF	BUSVE	N	-	-	2500	-200	514624.01N 0015121.88W	IAF
R26R	002	TF	EDBIF	N	171° (170.6°)	RIGHT	2400	-200	514128.44N 0015002.92W	IF / 8NM
R26R	003	TF	BP26F	N	261° (260.6°)	-	1800	-	514051.06N 0015604.30W	FAF / 4.2NM
R26R	004	TF	RW26	Y	261° (260.5°)	-	-	-	514009.33N 0020243.97W	MAPt
R26R	005	TF	BPM04	N	261° (260.4°)	LEFT	-	-185	513853.97N 0021436.35W	-
R26R	006	TF	BPM05	N	170° (170.3°)	LEFT	-	-185	513358.65N 0021315.10W	-
R26R	007	TF	AXSOC	N	080° (080.3°)	-	2500	-200	513632.84N 0014844.25W	-

KEMBLE RNP RWY 26 - Instrument Approach Procedure via EDBIF

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26C	001	IF	EDBIF	N	-	-	2400	-200	514128.44N 0015002.92W	IAF / IF
R26C	002	TF	BP26F	N	261° (260.6°)	-	1800	-	514051.06N 0015604.30W	FAF / 4.2NM
R26C	003	TF	RW26	Y	261° (260.5°)	-	-	-	514009.33N 0020243.97W	MAPt
R26C	004	TF	BPM04	N	261° (260.4°)	LEFT	-	-185	513853.97N 0021436.35W	-
R26C	005	TF	BPM05	N	170° (170.3°)	LEFT	-	-185	513358.65N 0021315.10W	-
R26C	006	TF	AXSOC	N	080° (080.3°)	-	2500	-200	513632.84N 0014844.25W	-

KEMBLE RNP RWY 26 - Instrument Approach Procedure via AXSOC

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26L	001	IF	AXSOC	N	-	-	2500	-200	513632.84N 0014844.25W	IAF
R26L	002	TF	EDBIF	N	351° (350.6°)	LEFT	2400	-200	514128.44N 0015002.92W	IF / 8NM
R26L	003	TF	BP26F	N	261° (260.6°)	-	1800	-	514051.06N 0015604.30W	FAF / 4.2NM
R26L	004	TF	RW26	Y	261° (260.5°)	-	-	-	514009.33N 0020243.97W	MAPt
R26L	005	TF	BPM04	N	261° (260.4°)	LEFT	-	-185	513853.97N 0021436.35W	-
R26L	006	TF	BPM05	N	170° (170.3°)	LEFT	-	-185	513358.65N 0021315.10W	-
R26L	007	TF	AXSOC	N	080° (080.3°)	-	2500	-200	513632.84N 0014844.25W	-

CHANGE (2/25): CHART SPECIFICATION.
AERO INFO DATE 02 DEC 24

EGPA — KIRKWALL

EGPA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPA — KIRKWALL

EGPA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 585729N Long: 0025402W Midpoint of RWYs 09/27
2	Direction and distance from city	2.5 NM SE of Kirkwall.
3	Elevation / Reference temperature / Mean Low Temperature	58 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	169 FT
5	Magnetic Variation / Annual Change	1.46°W (2022) / 0.24°E
6	AD Administration Address Telephone Telefax	HIAL Kirkwall Airport, Kirkwall, Orkney Islands, KW15 1TH. 01856-872421 (Aerodrome) 01856-886206 (ATC) 01856-872415 (Fuel) 01856-878476 (ATIS - H24) 01856-886217 (Administration)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPA AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900); and by arrangement with aerodrome operator (HIAL).
2	Customs and immigration	By arrangement with aerodrome operator.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As AD hours.
7	ATS	See AD 2.18.
8	Fuelling	During AD hours.
9	Handling	By arrangement with Loganair.
10	Security	As AD hours.
11	De-icing	
12	Remarks	This aerodrome is PPR by telephone, 01856-886206 or Email: kirkwatc@hial.co.uk. 3 hours notice required.

EGPA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1. By arrangement with North Air, AVGAS 100LL. By arrangement with North Air. Oil: By arrangement with Loganair Engineering
3	Fuelling facilities/capacity	Delivered by bowser.
4	De-icing facilities	By arrangement with Loganair Engineering.
5	Hangar space for visiting aircraft	By arrangement with HIAL.
6	Repair facilities for visiting aircraft	By arrangement with Loganair Engineering.
7	Remarks	Loganair Engineering Tel: 01856-873907. North Air Tel: 01856-872415. Helicopter rotors running refuelling available by arrangements with HIAL and North Air. Aircraft operators are reminded that they are responsible for their aircraft's security when parked on demarcated areas, and for the searching of their aircraft when parked either overnight or within demarcated areas prior to departure.

EGPA AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	Snacks and refreshments available in the terminal.
3	Transportation	Car hire, taxi and airport bus service.
4	Medical facilities	First aid/quiet room available. Limited first aid facilities. Local doctors and ambulance.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	Aviramp and wheelchairs available for disabled passenger handling.

EGPA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category 5. RFF Category 6 aircraft may only be accepted through prior arrangement.
2	Rescue equipment	Water rescue facilities are available for Runway 14/32 during published opening hours, special and on-call openings subject to serviceability of equipment and times when the weather conditions and sea state are conducive to such rescue operations.
3	Capability for removal of disabled aircraft	External agencies available locally
4	Remarks	

EGPA AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical and chemical de-icing. Runways 09/27 and 14/32 de-iced/anti-iced with KFOR (Potassium Formate fluids) and/or NAAC (Sodium Acetate solids).
2	Clearance priorities	Runway 09/27. Runway 32 to Apron. Apron. Remaining runway as required. Airport domestic areas.
3	Remarks	Current runway state information available during aerodrome operating hours at 01856-886206.

EGPA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Concrete and asphalt
2	Taxiway width, surface and strength	Taxiway MAIN TAXIWAY: 18 M Surface: Asphalt PCN 15
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: TDZ markings, Runway designators, centre-line. Taxiway light(s): Blue edge lights on taxiway and apron. Runway guard lights at: R1, E2 and W5. Illuminated holding point signs.
3	Stop bars and runway guard lights (if any)	R1, R2, R8, W3, W4, W5, E2.
4	Other runway protection measures	
5	Remarks	WDI (LGTD): 585725.62N 0025349.35W; 585733.29N 0025415.16W.

EGPA AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPA9471) 27/APPROACH 09/ TAKE-OFF	ROAD 4 8M	585736.00N 0025225.78W	117 FT	18 FT	No	
(EGPA9373) 09/APPROACH 27/ TAKE-OFF	WIND TURBINE	585733.93N 0025741.62W	290 FT	53 FT	No	
(EGPA9350) 09/APPROACH 27/ TAKE-OFF	UTILITY POLE	585733.46N 0025615.64W	202 FT	27 FT	No	
(EGPA9094) 09/APPROACH 27/ TAKE-OFF	TREE	585730.17N 0025451.95W	56 FT	25 FT	No	
(EGPA8575) 27/APPROACH 09/ TAKE-OFF	DRDF	585728.03N 0025300.00W	82 FT	21 FT	Yes Red	
(EGPA9126) 09/APPROACH 27/ TAKE-OFF	MAST	585710.76N 0025734.79W	236 FT	48 FT	No	
(EGPA8888) 32/APPROACH 14/ TAKE-OFF	UTILITY POLE	585655.87N 0025333.28W	212 FT	23 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPA8494)	WINDTURBINE	585829.03N 0025604.67W	273 FT	65 FT	No	
(EGPA8724)	MAST	585811.83N 0025557.38W	302 FT	34 FT	Yes Red	
(EGPA9149)	UTILITY POLE	585746.01N 0025705.68W	294 FT	38 FT	No	
(EGPA9163)	UTILITY POLE	585737.20N 0025621.08W	211 FT	28 FT	No	
(EGPA9049)	UTILITY POLE	585716.62N 0025551.49W	173 FT	26 FT	No	
(EGPA3188)	EP	585706.24N 0025720.28W	217 FT	29 FT	No	
(EGPA9121)	UTILITY POLE	585652.16N 0025727.27W	280 FT	29 FT	No	
(EGPA8481)	WINDTURBINE	585652.04N 0025555.32W	320 FT	92 FT	No	
(EGPA3231)	EP	585622.79N 0025639.35W	345 FT	24 FT	No	
(EGPA8461)	WINDTURBINE	585552.98N 0025537.71W	272 FT	51 FT	No	

EGPA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.
4	Trend forecast Interval of issuance	TREND 30 minutes.
5	Briefing/consultation provided	Telephone ATC, 01856-886206.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Limited information available on request from ATC.

8	Supplementary equipment available for providing information	ATIS on 01856-878476.
9	ATS units provided with information	KIRKWALL
10	Additional information (limitation of service, etc.)	Outside AD hours unverified automatic observations provided by telephone ATIS above.

EGPA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
09	087.40°	1430 x 45 M	RWY surface: Asphalt, Grooved PCN 15/F/D/Y/T	585728.03N 0025436.44W 168.6 FT	THR 38.9 FT	
27	267.42°	1430 x 45 M	RWY surface: Asphalt, Grooved PCN 15/F/D/Y/T	585729.83N 0025319.51W 168.5 FT	THR 38.9 FT	
14	140.39°	677 x 19 M	RWY surface: Asphalt	585737.81N 0025433.18W 168.6 FT	THR 38.2 FT	
32	320.39°	677 x 19 M	RWY surface: Asphalt	585723.92N 0025410.93W 168.6 FT	THR 50.7 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1550 x 280 M	183 x - M -			RWY 09 Threshold displaced by 159 M.
	65 x 150 M	1550 x 280 M	90 x - M -			RWY 27 Threshold displaced by 40 M.
		737 x 60 M				RWY 14
		737 x 60 M				RWY 32 Threshold displaced by 119 M. The begining of Runway 32 is inset by 208 M and the threshold by 328 M from the start of the tarmac. Aircrew are advised that when departing Runway 32, for a distance of approximately 600 M, the 14 threshold is not visible due to the runway profile.

EGPA AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1430 M	1430 M	1430 M	1271 M	
27	1365 M	1430 M	1365 M	1325 M	
09	992 M	992 M	992 M		Take-off from intersection with Runway 32 - Holding point R1.
27	1076 M	1141 M	1076 M		Take-off from intersection with Echo Taxiway - Holding point E2.
14	558 M	558 M	558 M	558 M	
32	677 M	677 M	677 M	558 M	

EGPA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Five crossbars. 900 M Light intensity high	Green wingbars	PAPI Right/ 3.5° 42 FT 230 M			1320 M 60 M spacing Final 420 M yellow White Light intensity high	Red		EDGE: The first 120 M of edge lights are red due to the displaced threshold.
27	Two crossbars. 450 M Light intensity high	Green wingbars	PAPI Left/3.5° 47 FT 256 M			1320 M 60 M spacing Final 420 M yellow White Light intensity high	Red		
32		Green wingbars							

EGPA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Runway 09: 585731.96N 0025433.00W - Runway 27: 585712.68N 0025404.63W.
3	TWY edge and centre line lighting	EDGE: LI Blue taxiway edge lights from runway intersection to apron and entrance to small apron, width 18 M.
4	Secondary power supply/switch-over time	Yes.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGPA AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	When traffic allows, light helicopters may arrive/depart directly to/from the appropriate apron or grass areas at the pilot's discretion. The aerodrome buildings must not be overflown.

EGPA AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
KIRKWALL ATZ A circle, 2 NM radius, centred at 585729N 0025402W on longest notified runway (09/27)	Upper limit: 2000 FT AGL Lower limit: SFC	G	KIRKWALL APPROACH English	3000 FT		ATZ may be re-activated at short notice at any time for air ambulance or emergency traffic. Pilots are advised to regard the ATZ as permanently active and to call and listen out on RTF.

EGPA AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	KIRKWALL APPROACH	118.305			Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900).	ATZ hours coincident with Approach hours.
TWR	KIRKWALL TOWER	118.305 DOC 40 NM/ 15,000 FT.			Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900).	
AFIS	KIRWALL INFORMATION	118.305			By arrangement outside hours of ATC - Normally only available for SAR, ambulance and emergency Flights.	For FISO training and maintenance of competency, FISO phraseology may be in use during ATC published hours providing basic service only. Pilots will be alerted to this by the use of call sign Kirkwall Information and ATIS message. ATC in attendance at all times and available immediately upon request if procedural service required.
ATIS	KIRWALL INFORMATION	124.130			Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900).	
OTHER	KIRKWALL FIRE CHIEF	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.41°W (2027)	IORK	110.100 MHz	Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900).	585730.24N 0025301.68W		(RWY 09) Due to terrain LOC reduced coverage of +/- 10 degrees at 18 NM and +/- 35 degrees at 10 NM.
ILS/GP	IORK	334.400 MHz	Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900).	585724.13N 0025423.10W		3.5° ILS Ref Datum Hgt 46 FT.
ILS/LOC I 0.42°W (2027)	IKIR	110.100 MHz	Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900).	585727.67N 0025451.81W		(RWY 27) Due to terrain LOC reduced coverage of +/- 10 degrees at 18 NM and +/- 35 degrees at 10 NM.
ILS/GP	IKIR	334.400 MHz	Mon-Fri 0715-2000 (0615-1900); Sat 0715-1745 (0615-1645); Sun 0900-2000 (0800-1900).	585733.03N 0025334.57W		3.5° ILS Ref Datum Hgt 33 FT.
VOR/DME 0.42°W (2027)	KWL	23X 108.600 MHz	H24	585734.82N 0025338.21W	65 FT	On AD. DOC 25 NM/10000 FT. Terminal DME co-located and frequency paired with VOR. Available for approach and landing purposes only during the hours of ATC and AFIS. Due to terrain effects the DME may unlock in Sector 185 to 210 when aircraft are at ranges exceeding 15 NM.
NDB (L) 0.42°W (2027)	KW	395.000 kHz	H24	585733.36N 0025357.48W		On AD. Range 40 NM. Co-located at DME.
ILS/DME	IORK	38X 110.100 MHz	H24	585732.39N 0025357.41W	50 FT	(RWY 09) DME frequency paired with ILS I-ORK and I-KIR. Zero range is indicated at THR of Runway 09 and 27.
ILS/DME	IKIR	38X 110.100 MHz	H24	585732.39N 0025357.41W	50 FT	(RWY 27) DME frequency paired with ILS I-ORK and I-KIR. Zero range is indicated at THR of Runway 09 and 27.

EGPA AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Flying by aircraft not requiring a licensed aerodrome may be permitted by the licensee and may occur in daylight hours only, outside of published hours. Pilots must comply with the HIAL out of hours indemnity scheme. Details of the scheme and an application form are available from the HIAL website.
b) All personnel operating on the manouevring area must wear high visibility clothing.
c) The main apron is subject to security restrictions and searches.
d) Use of Kirkwall aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.
e) Aircraft operators are responsible for the searching of any aircraft parked either overnight or within the demarcated areas prior to departure.

2 GROUND MOVEMENT

a) Taxiway E from E1 to Runway 27 is available for day use only by aircraft of less than 11 tonnes MAUW with an outer main gear wheel span less than 5 M and/or wingspan/rotor disc less than 24 M.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Grass areas outside strip are unfit for transit of aircraft because of open drains. Aerodrome is subject to water-logging.
b) Grass areas are soft and unsafe. Poor load bearing characteristics may be found on the runway/taxiway strips and the area adjacent to the apron. Only marked taxiway to be used.
c) A section 549 M in length, on Runway 14/32, commencing at the Southeast end of the runway, has a down gradient of 1 in 50 (1. 1°).
d) Severe turbulence and occasionally windshear may be encountered on final approach to Runway 27 below 400 FT during periods of strong winds from between the southwest and northwest.
e) A public road passes under the take-off and climb paths of Runway 27. A height allowance of 15 FT to clear a vehicle on this road must be applied to performance calculations for departures from these runways.
f) Security post 3 M high at the apron edge adjacent to passenger gates. Pilots of aircraft not receiving marshalling assistance should exercise caution when taxiing or parking in front of the terminal.
g) Birds, including geese, may be encountered on the Runway 09 and 27 approaches and climb-outs.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Runway departure restriction for aircraft requiring the use of a licensed aerodrome:

   i. Runway 09/27. Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 400 M or less are not permitted;
   ii. Runway 14/32. Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 800 M or less are not permitted.

b) Caution: Runway sidelights for Runway 09/27 are set approximately 1 M outside the pavement surface. Aircraft should remain within the paved width.

7 TRAINING

a) Training flights are by prior arrangement only and are subject to approval from ATC.

EGPA AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots of jet aircraft are required to avoid overflying Kirkwall town.

EGPA AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

2 NORTH ATLANTIC DEPARTURES

a) Due to the proximity of the Shanwick Oceanic boundary to Kirkwall, pilots must consider timescales for submitting an 'RCL'. Refer to ENR 2.2, paragraph 3.8.2 for details.

3 UK FLIGHT INFORMATION SERVICES

a) During notified ATC hours of service:

i. A Procedural ATS will be routinely applied to IFR flights. Pilots will be expected to accept levels, radials, tracks and/or time allocations that may require flight in IMC, to achieve planned deconfliction minima from other aircraft being provided with a Procedural ATS;
ii. Pilots must use conventional navigational aids when receiving a Procedural ATS that includes deconfliction from other traffic, and not use FMS overlays for the purpose;
iii. A Basic ATS will be applied to VFR flights. Agreements may be requested which restrict aircraft to a specific level, level band, heading, route, or operating area for the purposes of co-ordination and/or to facilitate the safe use of airspace; and
iv. A pilot may request another ATS if considered more appropriate.

b) Outside notified ATC hours of service:

i. A Basic ATS will be applied to SAR and ambulance flight by an AFISO.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGPA AD 2.23 ADDITIONAL INFORMATION

Not applicable

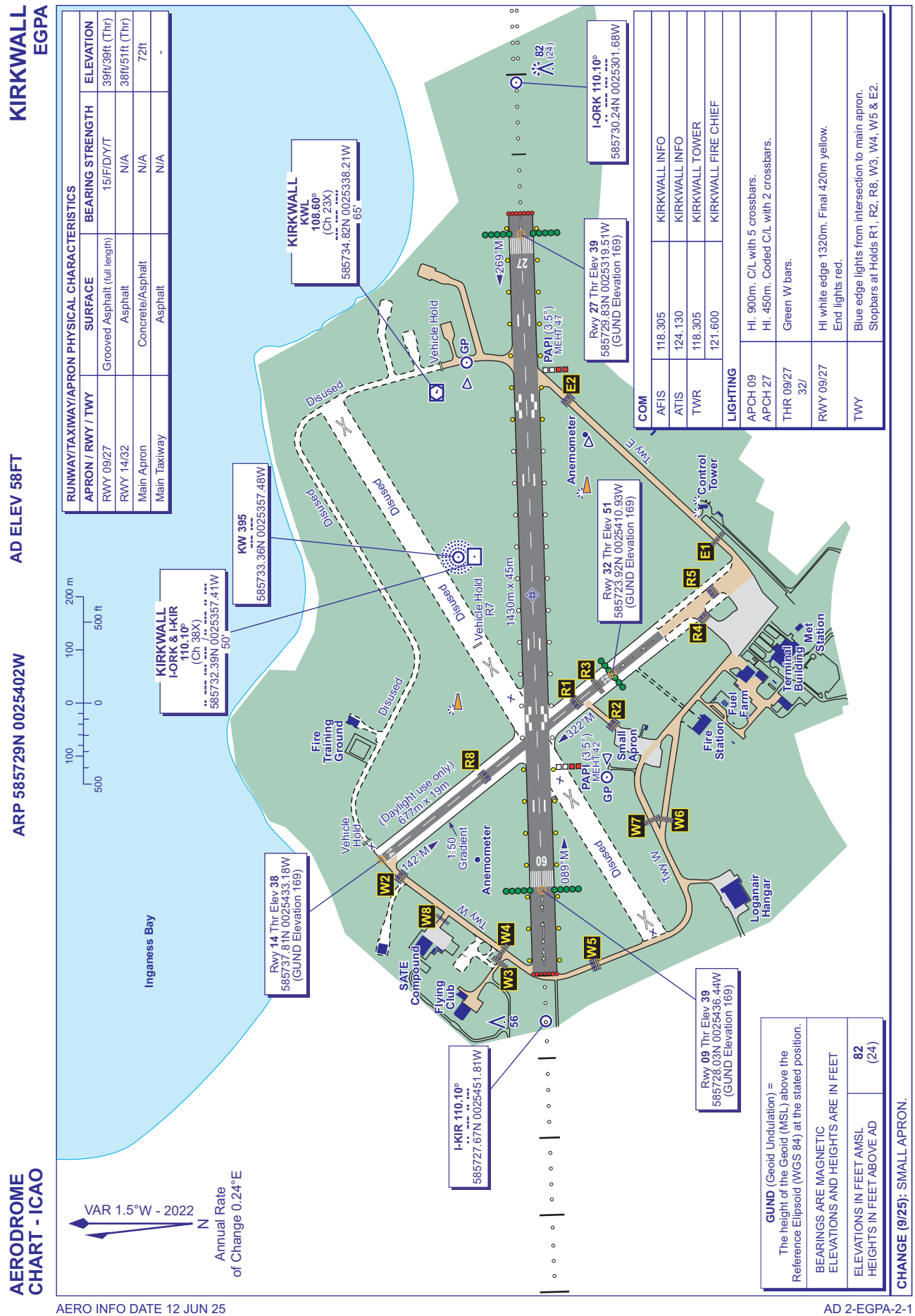
EGPA AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPA-2-1
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 09 (CAT A,B.C) - ICAO
AD 2.EGPA-8-1
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPA-8-2
INSTRUMENT APPROACH CHART VOR/DME RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPA-8-3
INSTRUMENT APPROACH CHART RNP RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPA-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPA-8-5
INSTRUMENT APPROACH CHART DIRECT ARRIVALS RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPA-8-6
INSTRUMENT APPROACH CHART ILS/DME/VOR RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPA-8-7
INSTRUMENT APPROACH CHART LOC/DME/VOR RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPA-8-8
INSTRUMENT APPROACH CHART VOR/DME RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPA-8-9
INSTRUMENT APPROACH CHART VOR RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPA-8-10
INSTRUMENT APPROACH CHART RNP RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPA-8-11
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPA-8-12
INSTRUMENT APPROACH CHART NDB(L) RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPA-8-13
INSTRUMENT APPROACH CHART DIRECT ARRIVALS RWY 27 (CAT A,B,C) - ICAO

AD 2.EGPA-8-14
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09
AD 2.EGPA-8-15
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 27
AD 2.EGPA-8-16

EGPA AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable



AERO INFO DATE 12 JUN 25

AD 2-EGPA-2-1

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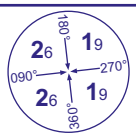
INSTRUMENT APPROACH CHART - ICAO

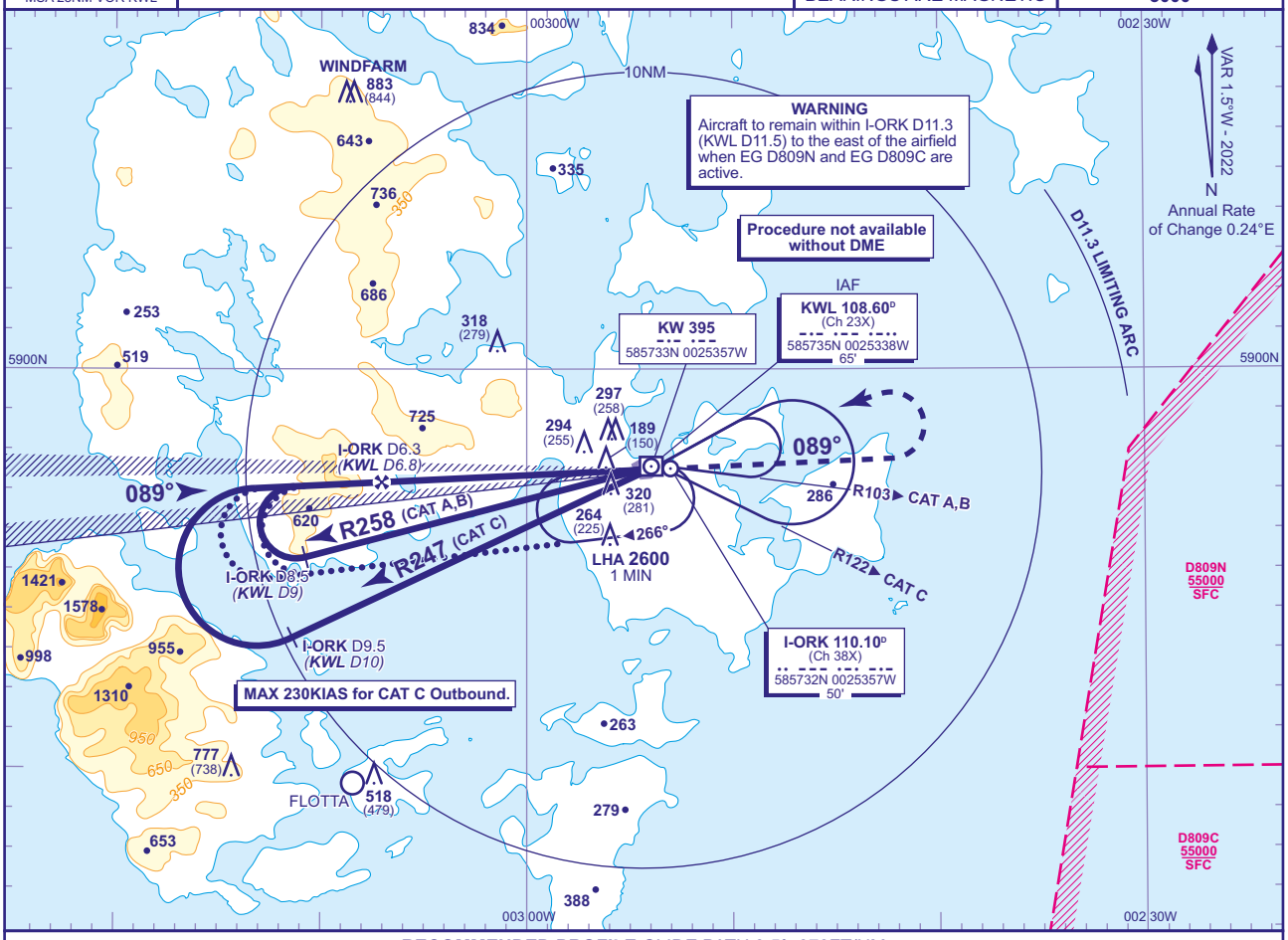
KIRKWALL ILS/DME/VOR RWY 09
(ACFT CAT A,B,C)



MSA 25NM VOR KWL

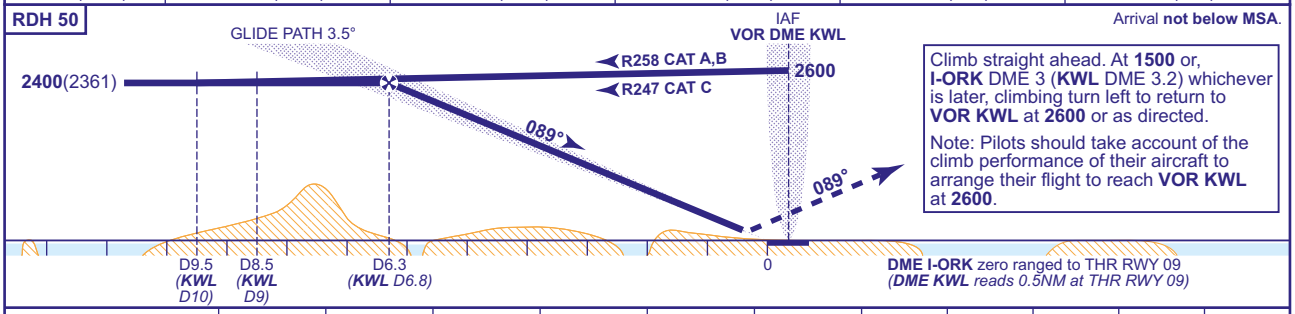
APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	
ATIS	124.130	KIRKWALL INFORMATION	883 AMSL (844) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-ORK(KWL)	5(5.5)	4(4.5)	3(3.5)	2(2.5)	1(1.5)
ALT(HGT)	**1920**(1881)	**1560**(1521)	**1190**(1151)	**820**(781)	**460**(421)



Arrival **not below MSA**.

Climb straight ahead. At **1500** or, **I-ORK** DME 3 (**KWL** DME 3.2) whichever is later, climbing turn left to return to **VOR KWL** at **2600** or as directed.

Note: Pilots should take account of the climb performance of their aircraft to arrange their flight to reach **VOR KWL** at **2600**.

Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**CAT I**	**184**(145)	**193**(154)	**202**(163)
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE
Arrival **not below MSA**. Overhead VOR/DME KWL (IAF) at **2600** turn to establish on the outbound leg of the holding pattern. Extend the outbound leg of the hold descending to **2400**. At I-ORK DME 8.5 (KWL DME 9) (CAT A,B) or I-ORK DME 9.5 (KWL DME 10) (CAT C) turn right to establish on the localizer; when established continue as for basic procedure.

ENTRY TO BASE TURN PROCEDURE AFTER HOLDING
If required, the Base Turn procedure may be entered after holding by flying a teardrop reversal manouevre from overhead the holding facility after flying inbound in the hold as follows: Fly outbound on track 103°M (CAT A,B) or 122°M (CAT C) for 1 MIN then turn left to return to the overhead to enter the base turn procedure. Lowest altitude to commence procedure from the hold is **2600**.

NOTE NDB KW may be used in lieu of VOR KWL.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

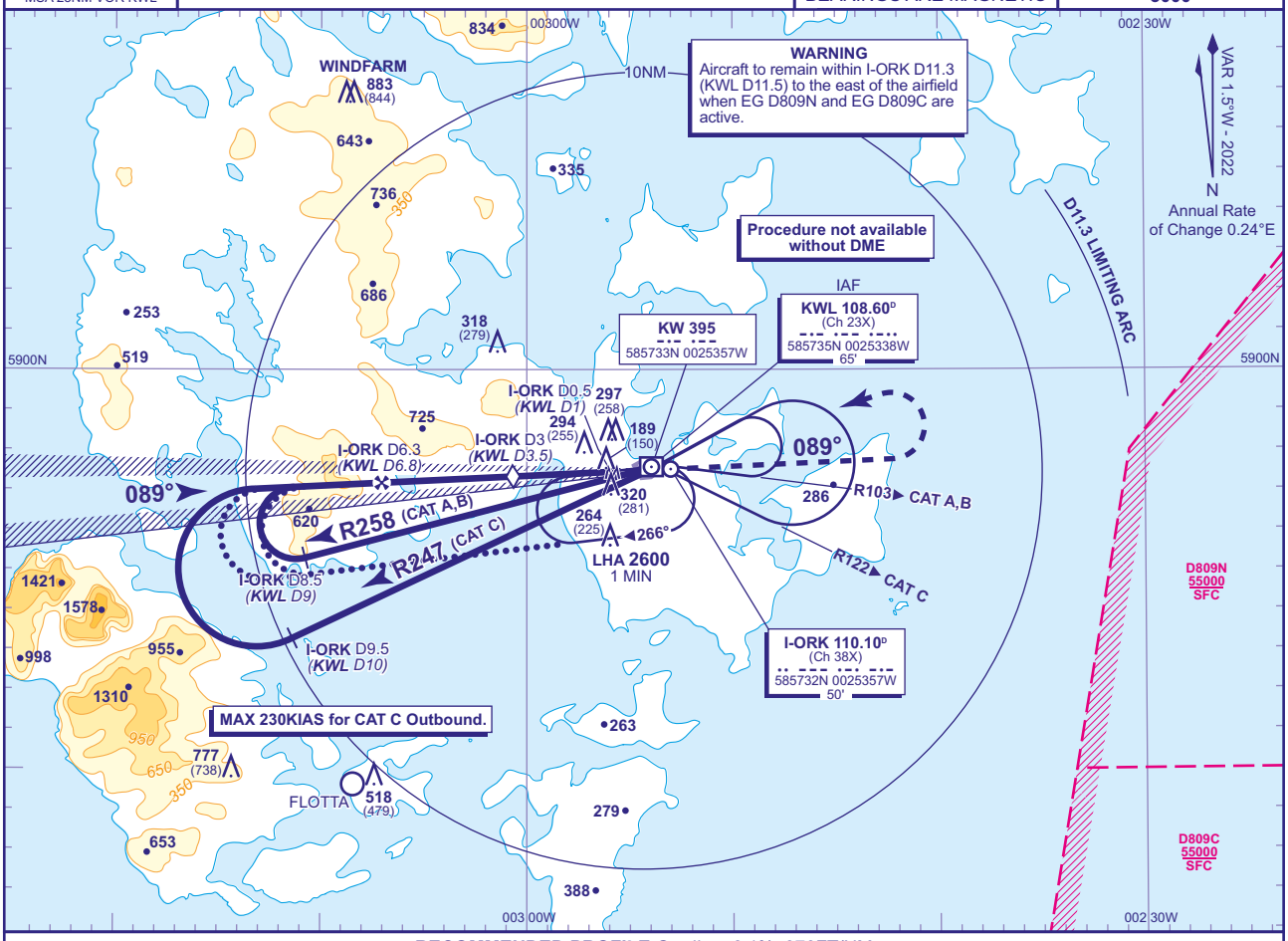
AD 2-EGPA-8-1

INSTRUMENT APPROACH CHART - ICAO

KIRKWALL LOC/DME/VOR RWY 09
(ACFT CAT A,B,C)

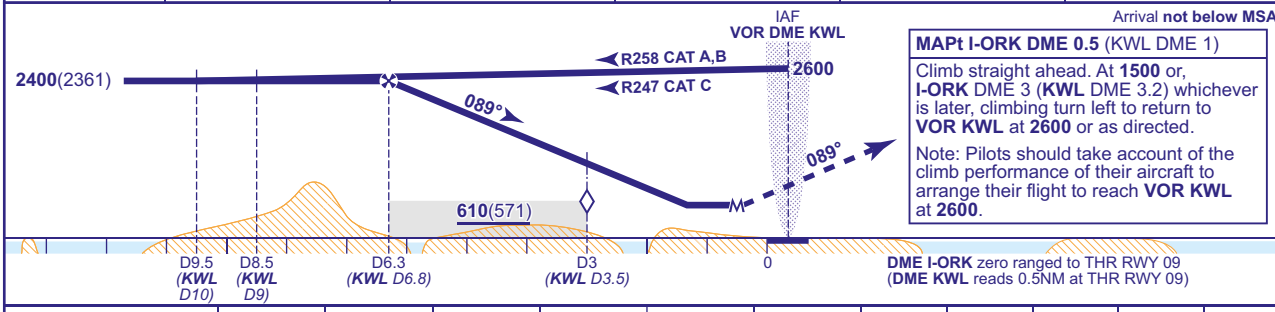
MSA 25NM VOR KWL

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58	
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39	
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)	
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-ORK(KWL)	5(5.5)	4(4.5)	3(3.5) **(SDF)**	2(2.5)	1(1.5)
ALT(HGT)	**1920**(1881)	**1560**(1521)	**1190**(1151)	**820**(781)	**460**(421)



MAPt I-ORK DME 0.5 (KWL DME 1)

Climb straight ahead. At **1500** or, **I-ORK** DME 3 (**KWL** DME 3.2) whichever is later, climbing turn left to return to **VOR KWL** at **2600** or as directed.

Note: Pilots should take account of the climb performance of their aircraft to arrange their flight to reach **VOR KWL** at **2600**.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**540**(501)	**540**(501)	**540**(501)
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	860	740	620	500

ALTERNATIVE PROCEDURE
Arrival **not below MSA**. Overhead VOR/DME KWL (IAF) at **2600** turn to establish on the outbound leg of the holding pattern. Extend the outbound leg of the hold descending to **2400**. At I-ORK DME 8.5 (KWL DME 9) (CAT A,B) or I-ORK DME 9.5 (KWL DME 10) (CAT C) turn right to establish on the localizer; when established continue as for basic procedure.

ENTRY TO BASE TURN PROCEDURE AFTER HOLDING
If required, the Base Turn procedure may be entered after holding by flying a teardrop reversal manoeuvre from overhead the holding facility after flying inbound in the hold as follows: Fly outbound on track 103°M (CAT A,B) or 122°M (CAT C) for 1 MIN then turn left to return to the overhead to enter the base turn procedure. Lowest altitude to commence procedure from the hold is **2600**.

NOTE 1 NDB KW may be used in lieu of VOR KWL.

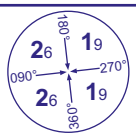
CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

AD 2-EGPA-8-2

INSTRUMENT APPROACH CHART - ICAO

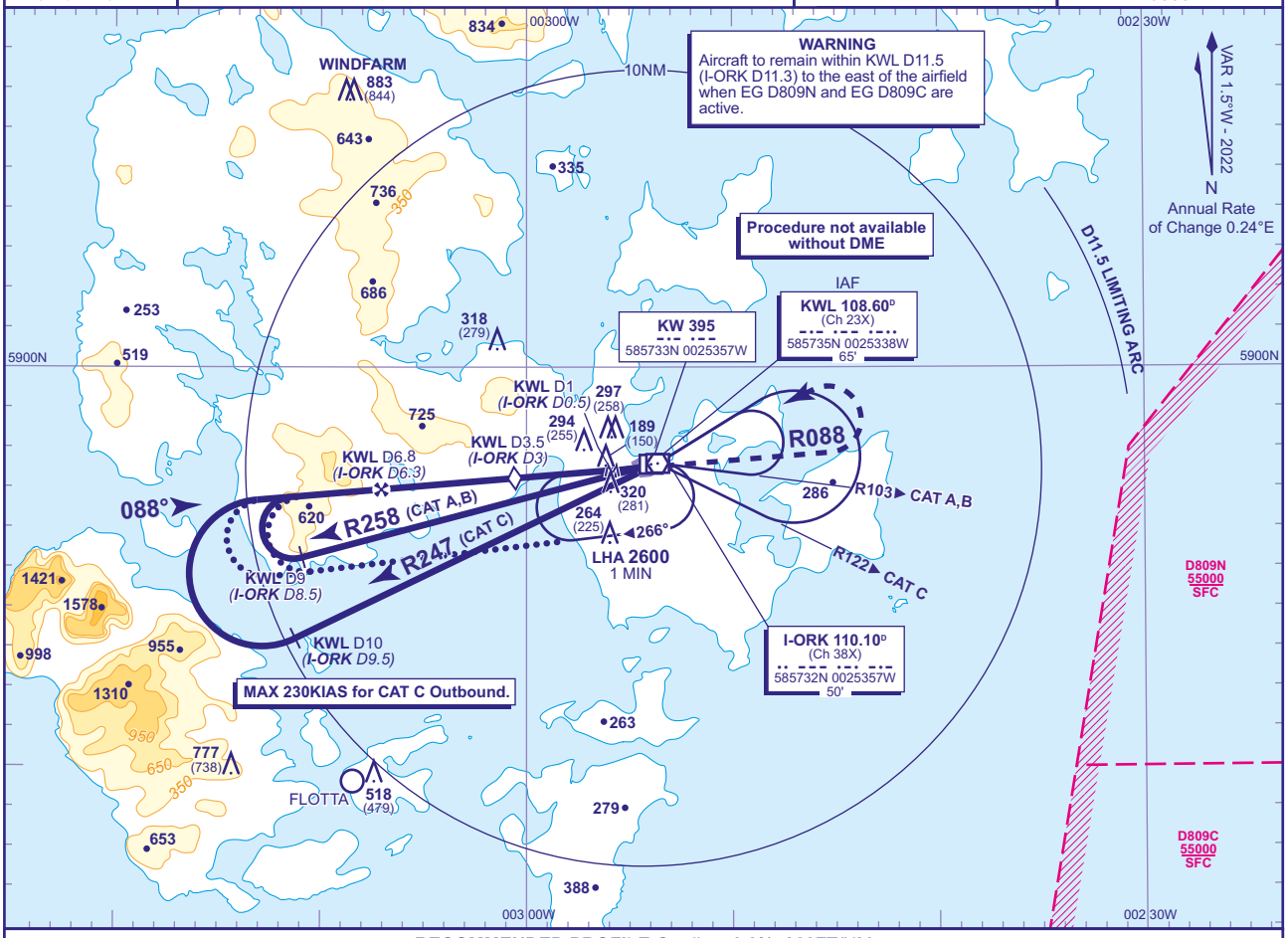
KIRKWALL VOR/DME RWY 09
(ACFT CAT A,B,C)



MSA 25NM VOR KWL

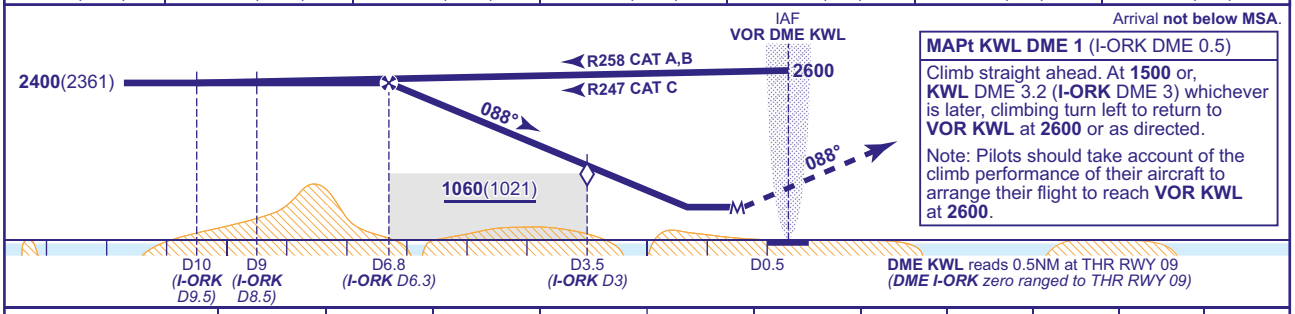
APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6.0%, 360FT/NM

DME KWL(I-ORK)	5(4.5)	4(3.5)	3.5(3) **(SDF)**	3(2.5)	2(1.5)	1(0.5)
ALT(HGT)	**1740**(1701)	**1380**(1341)	**1190**(1151)	**1010**(971)	**640**(601)	**270**(231)



Arrival **not below MSA**.

MAPt KWL DME 1 (I-ORK DME 0.5)

Climb straight ahead. At **1500** or, **KWL** DME 3.2 (**I-ORK** DME 3) whichever is later, climbing turn left to return to **VOR KWL** at **2600** or as directed.

Note: Pilots should take account of the climb performance of their aircraft to arrange their flight to reach **VOR KWL** at **2600**.

DME KWL reads 0.5NM at THR RWY 09 (***DME I-ORK** zero ranged to THR RWY 09*)

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**560**(521)	**560**(521)	**560**(521)
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	980	870	730	610	500

ALTERNATIVE PROCEDURE
Arrival **not below MSA**. Overhead VOR/DME KWL (IAF) at **2600** turn to establish on the outbound leg of the holding pattern. Extend the outbound leg of the hold descending to **2400**. At KWL DME 9 (I-ORK DME 8.5) (CAT A,B) or KWL DME 10 (I-ORK DME 9.5) (CAT C) turn right to establish on the extended FAT; when established continue as for basic procedure.

ENTRY TO BASE TURN PROCEDURE AFTER HOLDING
If required, the Base Turn procedure may be entered after holding by flying a teardrop reversal manouevre from overhead the holding facility after flying inbound in the hold as follows: Fly outbound on R103 (CAT A,B) or R122 (CAT C) for 1 MIN then turn left to return to the overhead to enter the base turn procedure. Lowest altitude to commence procedure from the hold is **2600**.

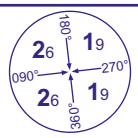
CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

AD 2-EGPA-8-3

INSTRUMENT APPROACH CHART - ICAO

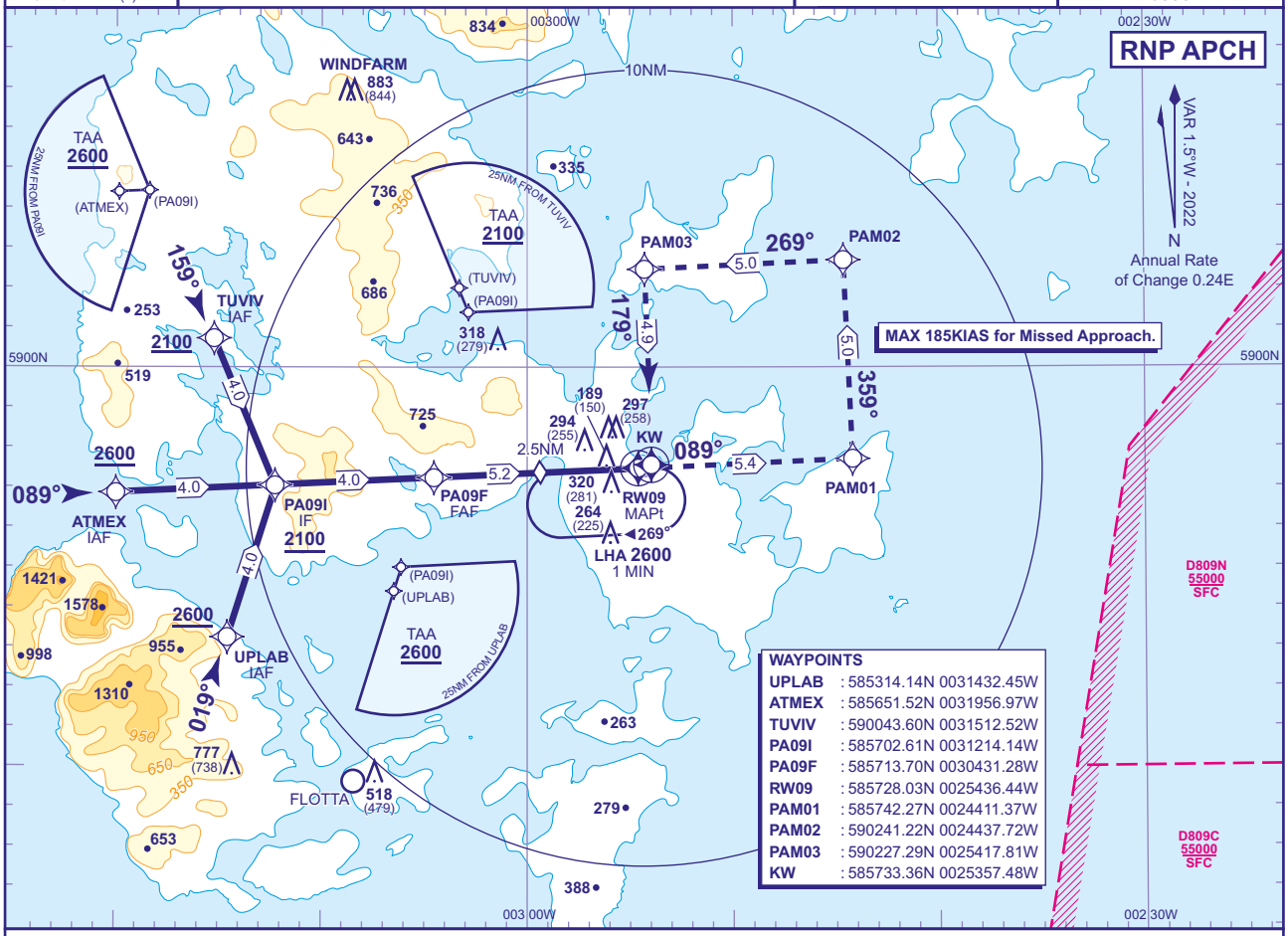
KIRKWALL
RNP
RWY 09
(ACFT CAT A,B,C)



MSA 25NM NDB(L) KW

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58	
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39	
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)	
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC		

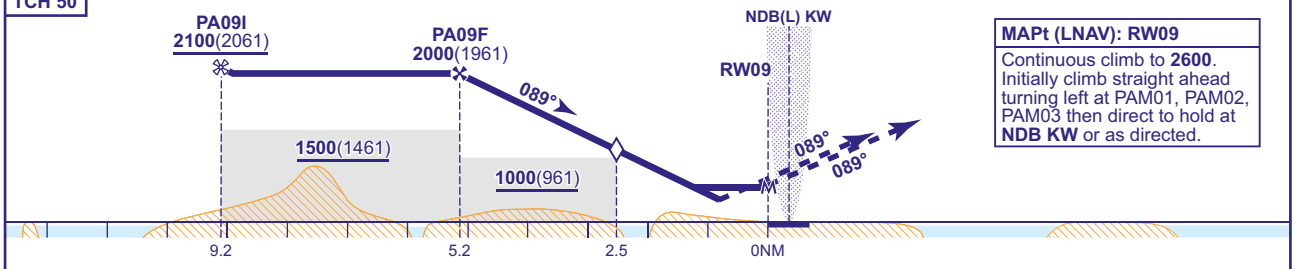
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW09	5	4	3	2.5 (**SDF**)	2	1
ALT(HGT)	**1950**(1911)	**1570**(1531)	**1200**(1161)	**1020**(981)	**830**(791)	**460**(421)

TCH 50



MAPt (LNAV): RW09
Continuous climb to **2600**. Initially climb straight ahead turning left at PAM01, PAM02, PAM03 then direct to hold at **NDB KW** or as directed.

Aircraft Category		A	B	C
OCA (OCH)	**LNAV**	**540**(501)		
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**750**(692)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	740	620	500

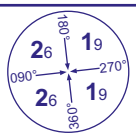
NOTE
1 Use of RNP procedures at this aerodrome restricted to Highlands and Islands Airports Ltd - Approved Operators only.
2 Use of this RNP procedure is strictly PPR from the aerodrome operator.
3 Prior to commencing the procedure, pilots are to broadcast on AFIS 118.305 with flight details and intentions.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

INSTRUMENT APPROACH CHART - ICAO

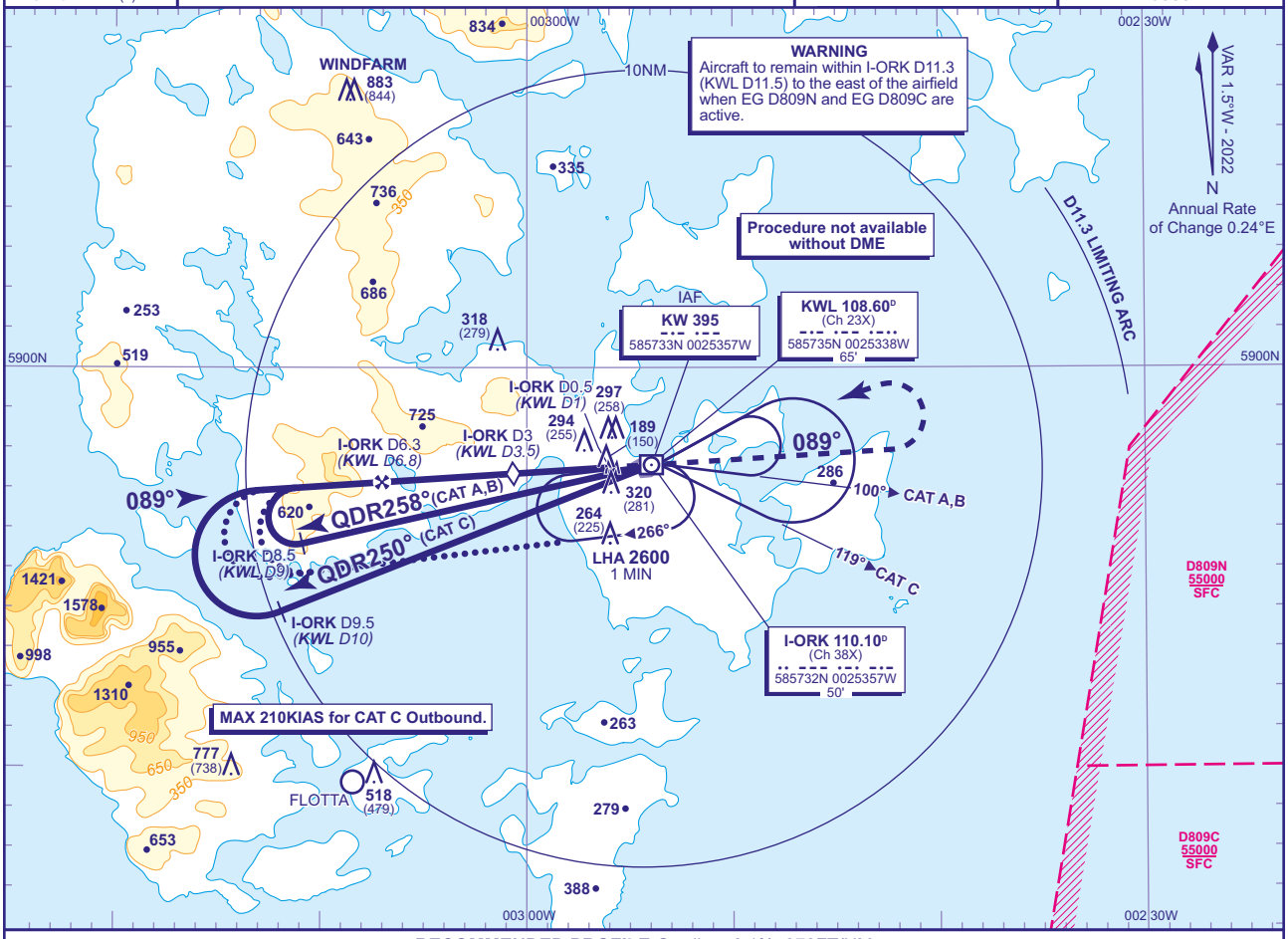
KIRKWALL NDB(L)/DME RWY 09
(ACFT CAT A,B,C)



MSA 25NM NDB(L) KW

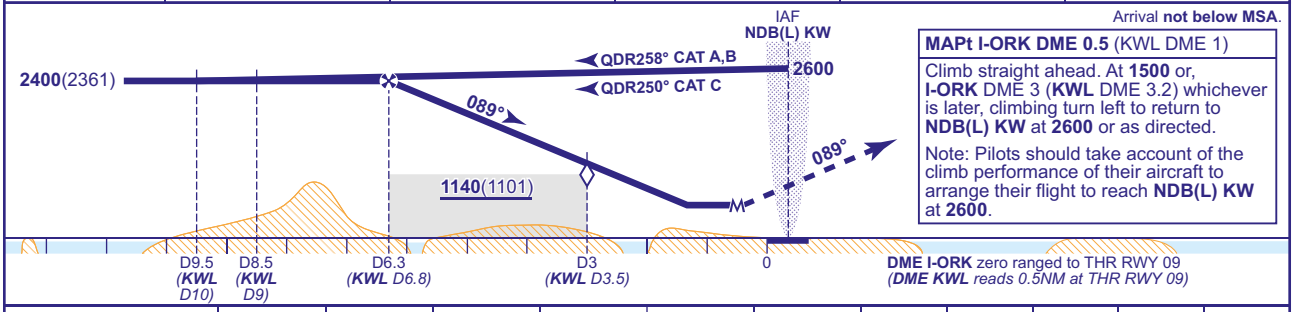
APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-ORK(KWL)	5(5.5)	4(4.5)	3(3.5) **(SDF)**	2(2.5)	1(1.5)
ALT(HGT)	**1920**(1881)	**1560**(1521)	**1190**(1151)	**820**(781)	**460**(421)



Arrival **not below MSA**.

MAPt I-ORK DME 0.5 (KWL DME 1)

Climb straight ahead. At **1500** or, **I-ORK** DME 3 (**KWL** DME 3.2) whichever is later, climbing turn left to return to **NDB(L) KW** at **2600** or as directed.

Note: Pilots should take account of the climb performance of their aircraft to arrange their flight to reach **NDB(L) KW** at **2600**.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**570**(532)	**570**(532)	**570**(532)
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE
Arrival **not below MSA**. Overhead NDB(L) KW (IAF) at **2600** turn to establish on the outbound leg of the holding pattern. Extend the outbound leg of the hold descending to **2400**. At I-ORK DME 8.5 (KWL DME 9) (CAT A,B) or I-ORK DME 9.5 (KWL DME 10) (CAT C) turn right to establish on the extended FAT; when established continue as for basic procedure.

ENTRY TO BASE TURN PROCEDURE AFTER HOLDING
If required, the Base Turn procedure may be entered after holding by flying a teardrop reversal manouevre from overhead the holding facility after flying inbound in the hold as follows: Fly outbound on track 100°M (CAT A,B) or 119°M (CAT C) for 1 MIN then turn left to return to the overhead to enter the base turn procedure. Lowest altitude to commence procedure from the hold is **2600**.

NOTE FAT is parallel to RWY C/L but offset 136 metres north.

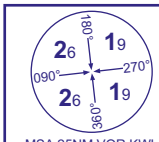
CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

AD 2-EGPA-8-5

INSTRUMENT APPROACH CHART - ICAO

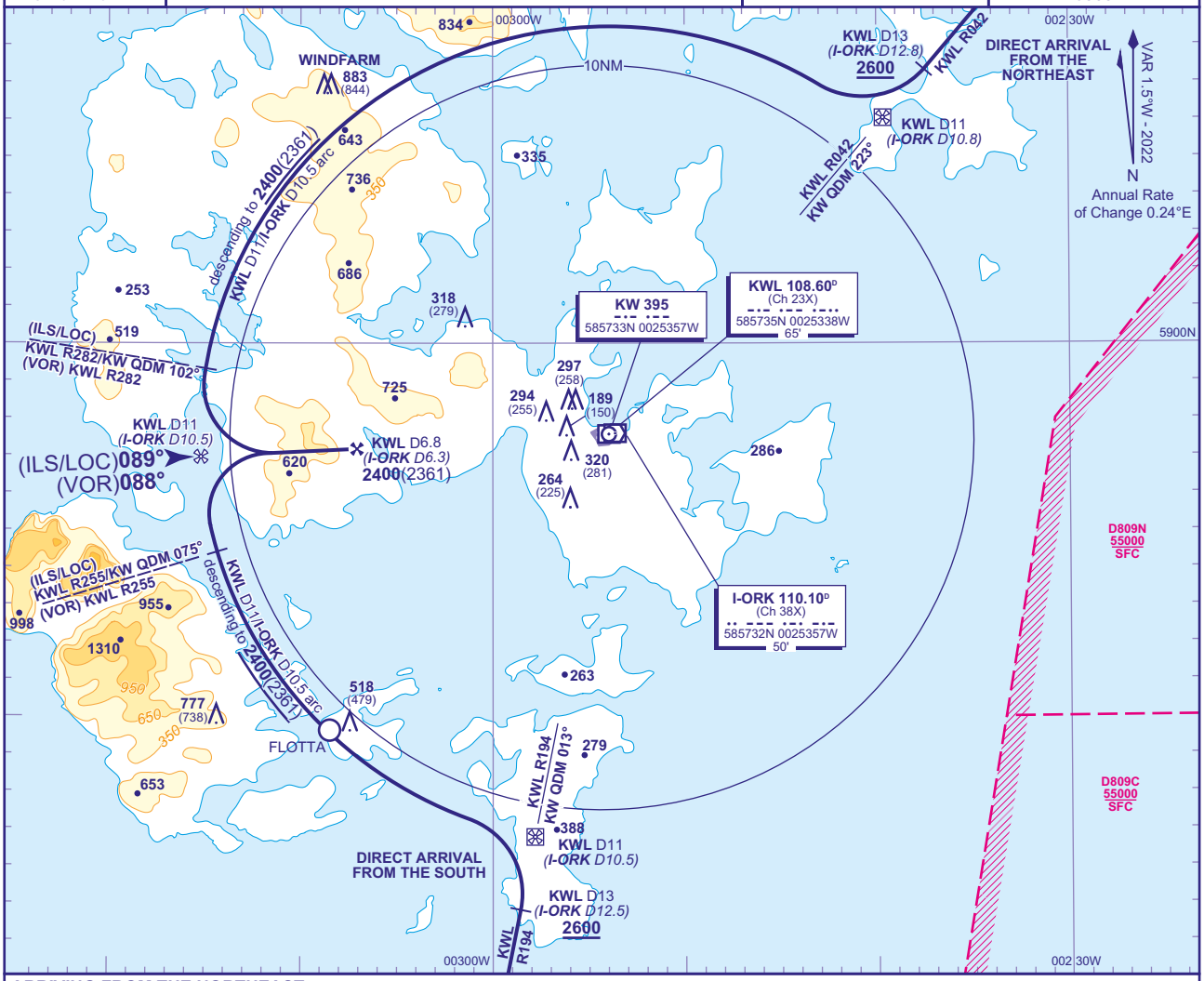
KIRKWALL DIRECT ARRIVALS RWY 09
(ACFT CAT A,B,C)



MSA 25NM VOR KWL

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



ARRIVING FROM THE NORTHEAST
Arrival **not below MSA**. Request ATC approval for DME arc arrival when within 40NM of Kirkwall. Intercept and establish NDB(L) KW QDM 223° inbound, or VOR DME KWL R042 **not below minimum enroute altitude**. After passing KWL DME 25 (I-ORK DME 24.8) inbound, subject to ATC approval, descend as required **not below 2600**. From KWL DME 13 (I-ORK DME 12.8) turn right to establish on KWL DME 11 (I-ORK DME 10.5) arc anticlockwise (IAF on NDB(L) KW QDM 223° (VOR KWL R042) at KWL DME 11 (I-ORK DME 10.8). When established, descend along the arc to **2400**(2361). From VOR KWL R282 (NDB(L) KW QDM 102°) turn left onto LOC/extended FAT. When established, from FAF KWL DME 6.8 (I-ORK DME 6.3) at **2400**(2361), continue with appropriate final approach procedure.

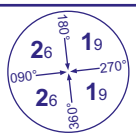
ARRIVING FROM THE SOUTH AND ON N560 NORTH BOUND
Arrival **not below MSA**. Request ATC approval for DME arc arrival when within 40NM of Kirkwall. Intercept and establish NDB(L) KW QDM 013° inbound, or VOR DME KWL R194 (N560) **not below minimum enroute altitude**. After passing KWL DME 15 (I-ORK DME 14.5) inbound, subject to ATC approval, descend as required **not below 2600**. From KWL DME 13 (I-ORK DME 12.5) turn left to establish on KWL DME 11 (I-ORK DME 10.5) arc clockwise (IAF on NDB(L) KW QDM 013° (VOR KWL R194) at KWL DME 11 (I-ORK DME 10.5). When established, descend along the arc to **2400**(2361). From VOR KWL R255 (NDB(L) KW QDM 075°) (ILS/LOC) or VOR KWL R255 (VOR) turn right onto LOC/extended FAT. When established, from FAF KWL DME 6.8 (I-ORK DME 6.3) at **2400**(2361), continue with appropriate final approach procedure.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23 AD 2-EGPA-8-6

INSTRUMENT APPROACH CHART - ICAO

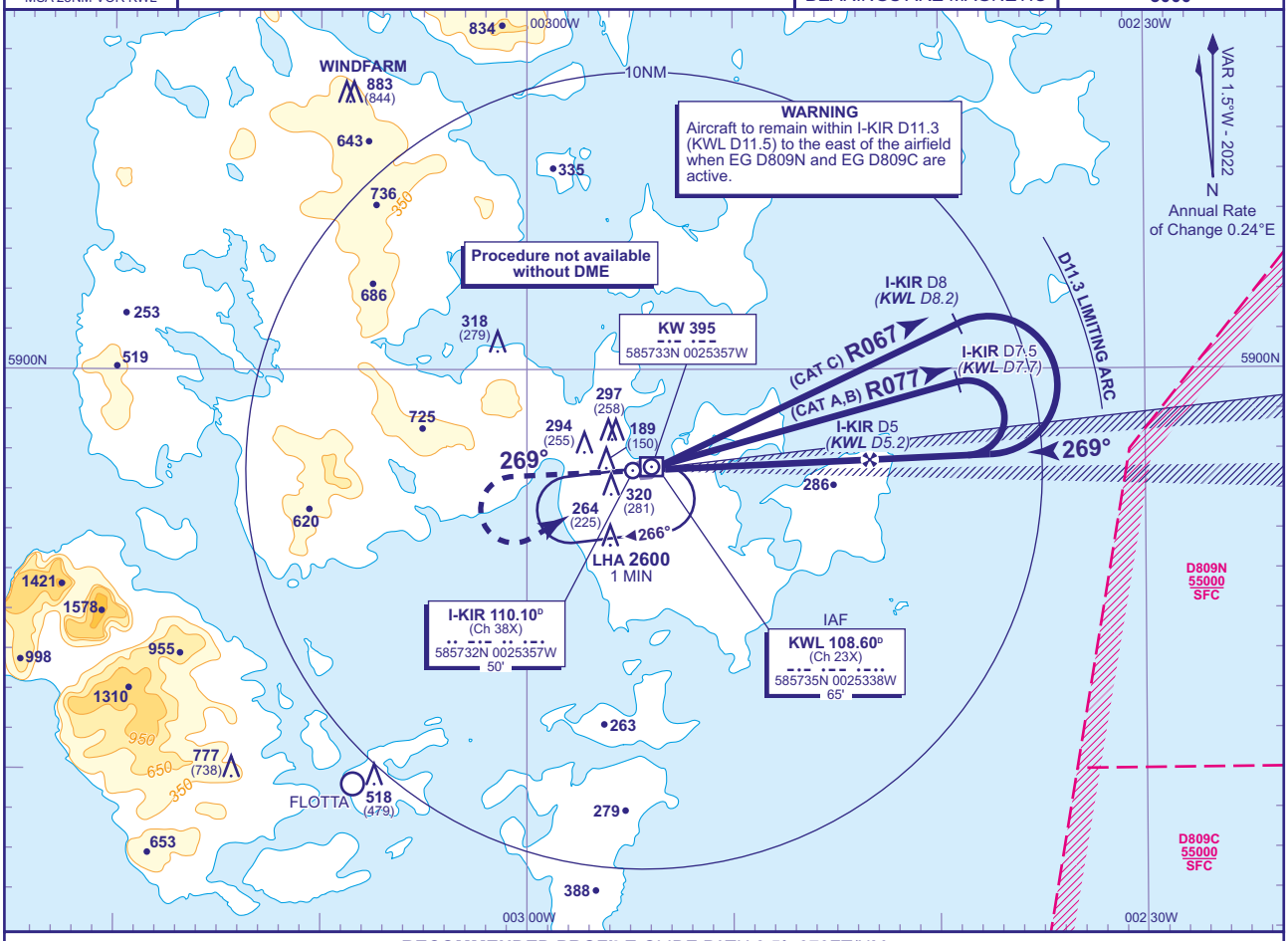
KIRKWALL ILS/DME/VOR RWY 27
(ACFT CAT A,B,C)



MSA 25NM VOR KWL

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

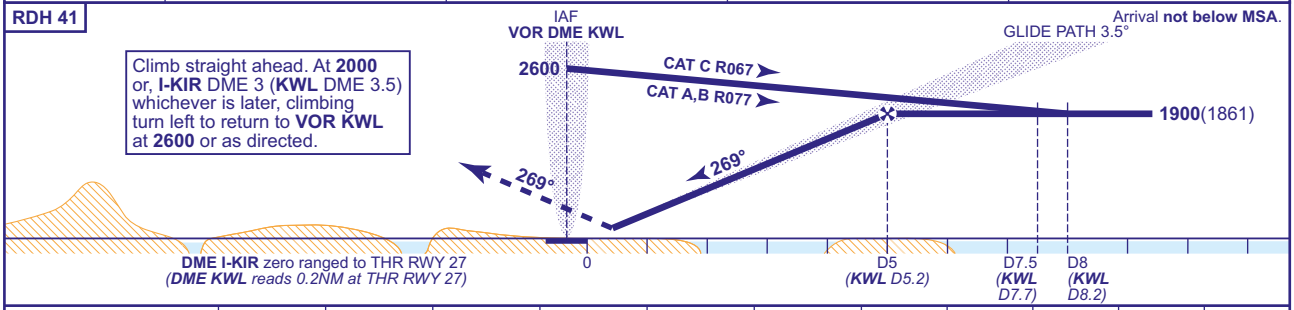


RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-KIR(KWL)	4(4.2)	3(3.2)	2(2.2)	1(1.2)
ALT(HGT)	**1540**(1501)	**1170**(1131)	**810**(771)	**440**(401)

RDH 41

Climb straight ahead. At **2000** or, **I-KIR** DME 3 (**KWL** DME 3.5) whichever is later, climbing turn left to return to **VOR KWL** at **2600** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	**CAT I**	**215**(176)	**222**(183)	**230**(191)
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	740	620	500

NOTE NDB KW may be used in lieu of VOR KWL.

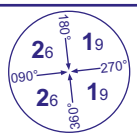
CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

AD 2-EGPA-8-7

INSTRUMENT APPROACH CHART - ICAO

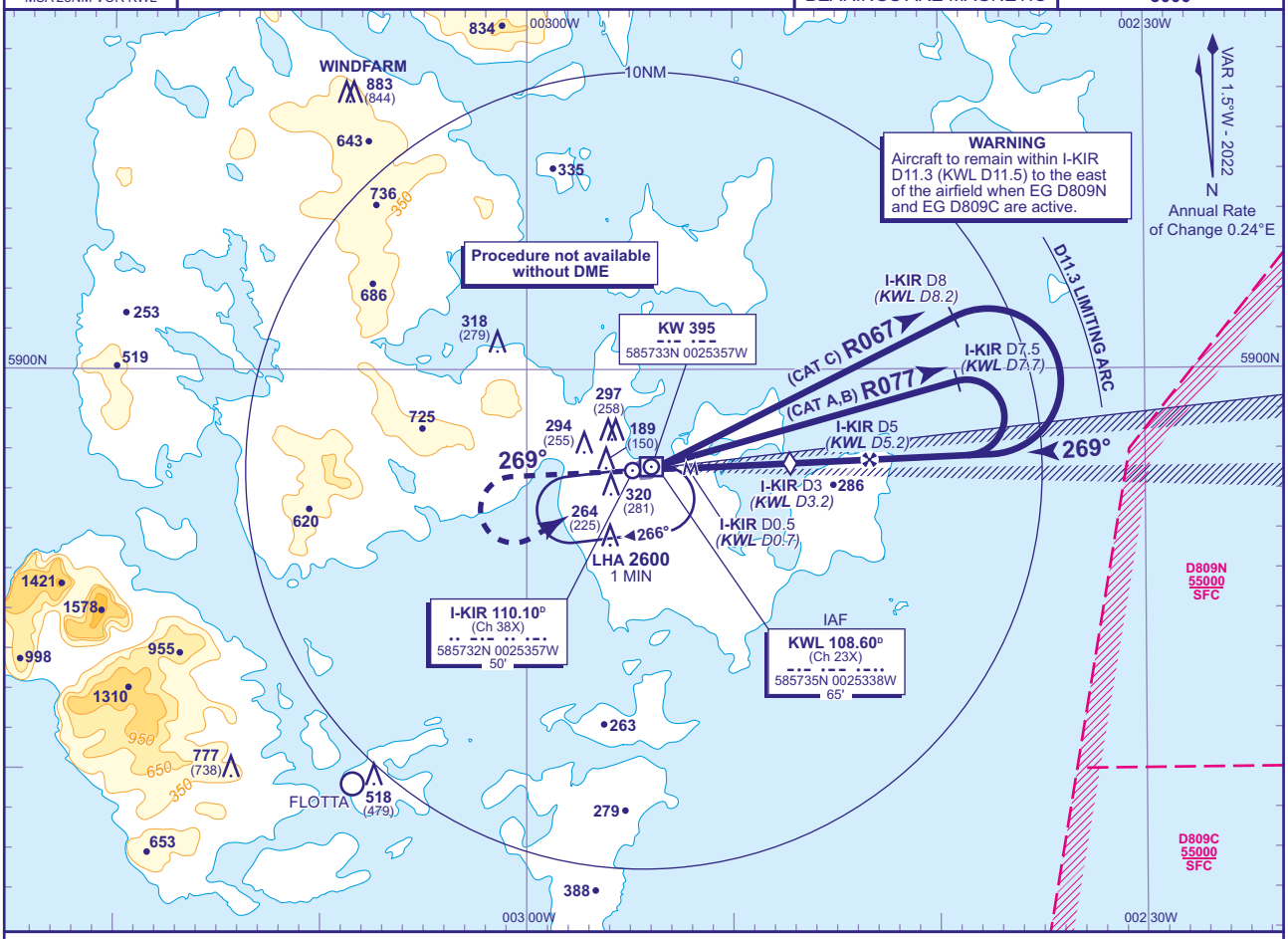
KIRKWALL LOC/DME/VOR RWY 27
(ACFT CAT A,B,C)



MSA 25NM VOR KWL

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58	
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39	
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)	
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**

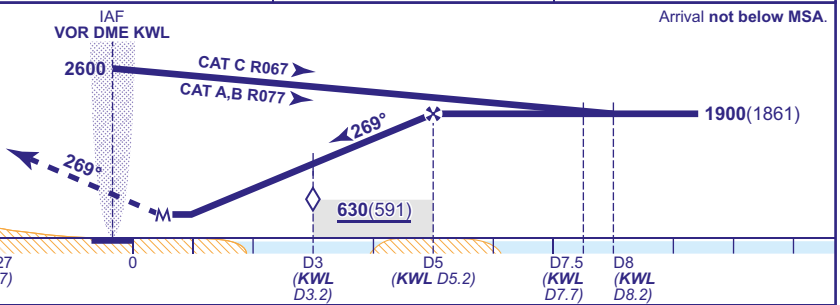


RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-KIR(KWL)	4(4.2)	3(3.2) **(SDF)**	2(2.2)	1(1.2)
ALT(HGT)	**1540**(1501)	**1170**(1131)	**810**(771)	**440**(401)

MAPt I-KIR DME 0.5
(KWL DME 0.7)

Climb straight ahead. At **2000** or, **I-KIR** DME 3 (**KWL** DME 3.5) whichever is later, climbing turn left to return to **VOR KWL** at **2600** or as directed.



Arrival **not below MSA**.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**380**(341)	**380**(341)	**380**(341)
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	740	620	500

NOTE NDB KW may be used in lieu of VOR KWL.

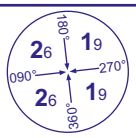
CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

INSTRUMENT APPROACH CHART - ICAO

KIRKWALL VOR/DME RWY 27

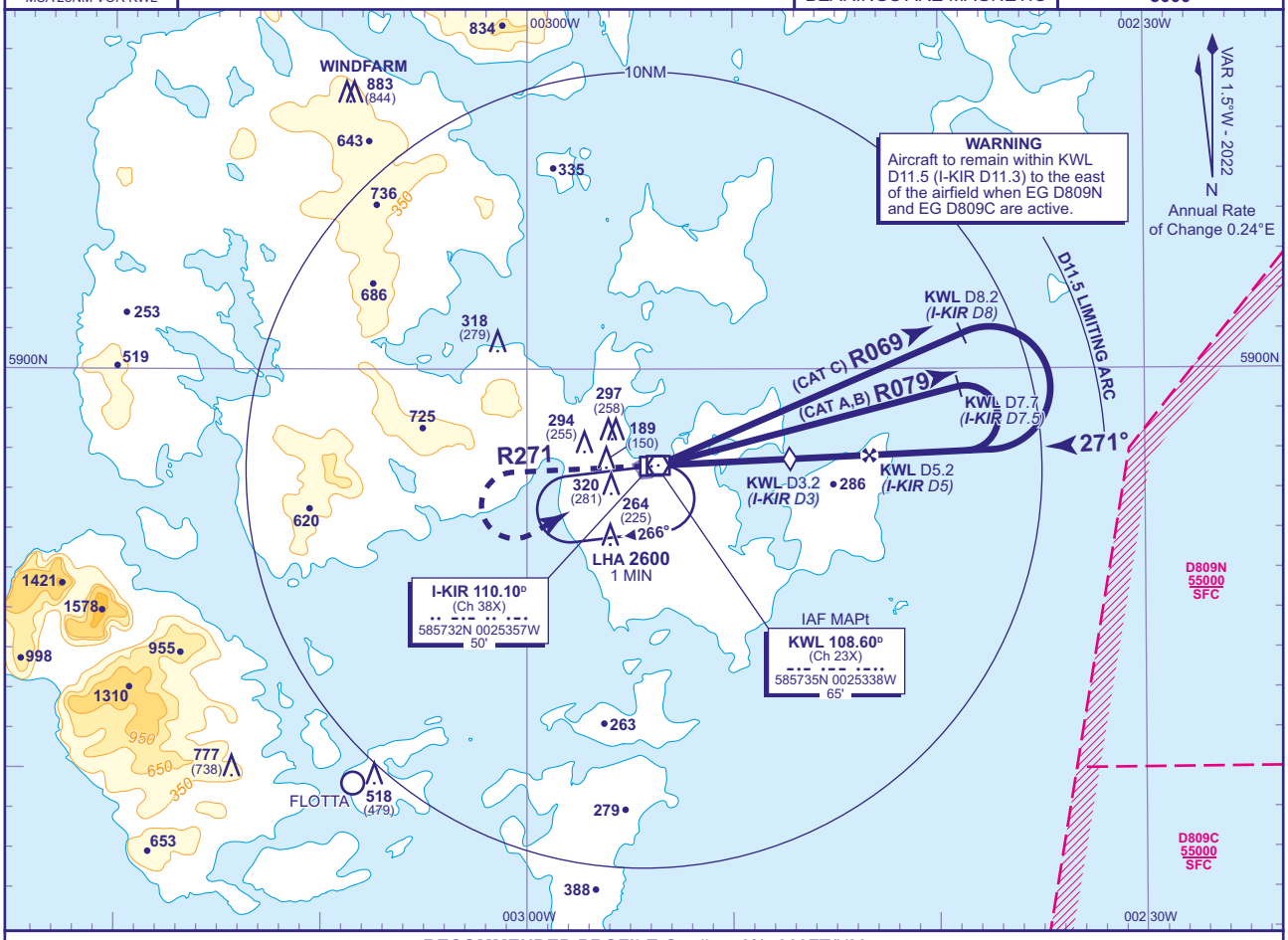
(ACFT CAT A,B,C)



MSA 25NM VOR KWL

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

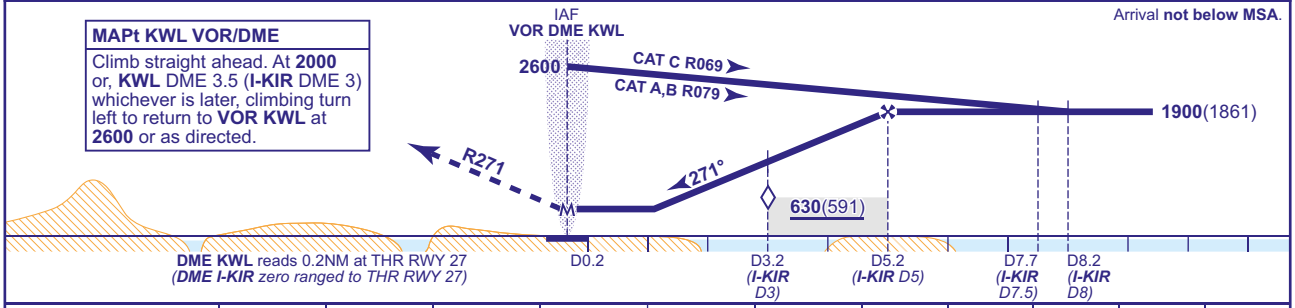
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 6%, 360FT/NM				
DME KWL (I-KIR)	4(3.8)	3.2(3) **(SDF)**	3(2.8)	2(1.8)
ALT(HGT)	**1460**(1421)	**1170**(1131)	**1100**(1061)	**740**(701)

MAPt KWL VOR/DME

Climb straight ahead. At **2000** or, **KWL** DME 3.5 (**I-KIR** DME 3) whichever is later, climbing turn left to return to **VOR KWL** at **2600** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**430**(391)	**430**(391)	**430**(391)
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	970	850	720	600	480

NOTE FAT offset 2° north.

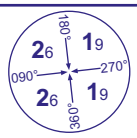
CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

AD 2-EGPA-8-9

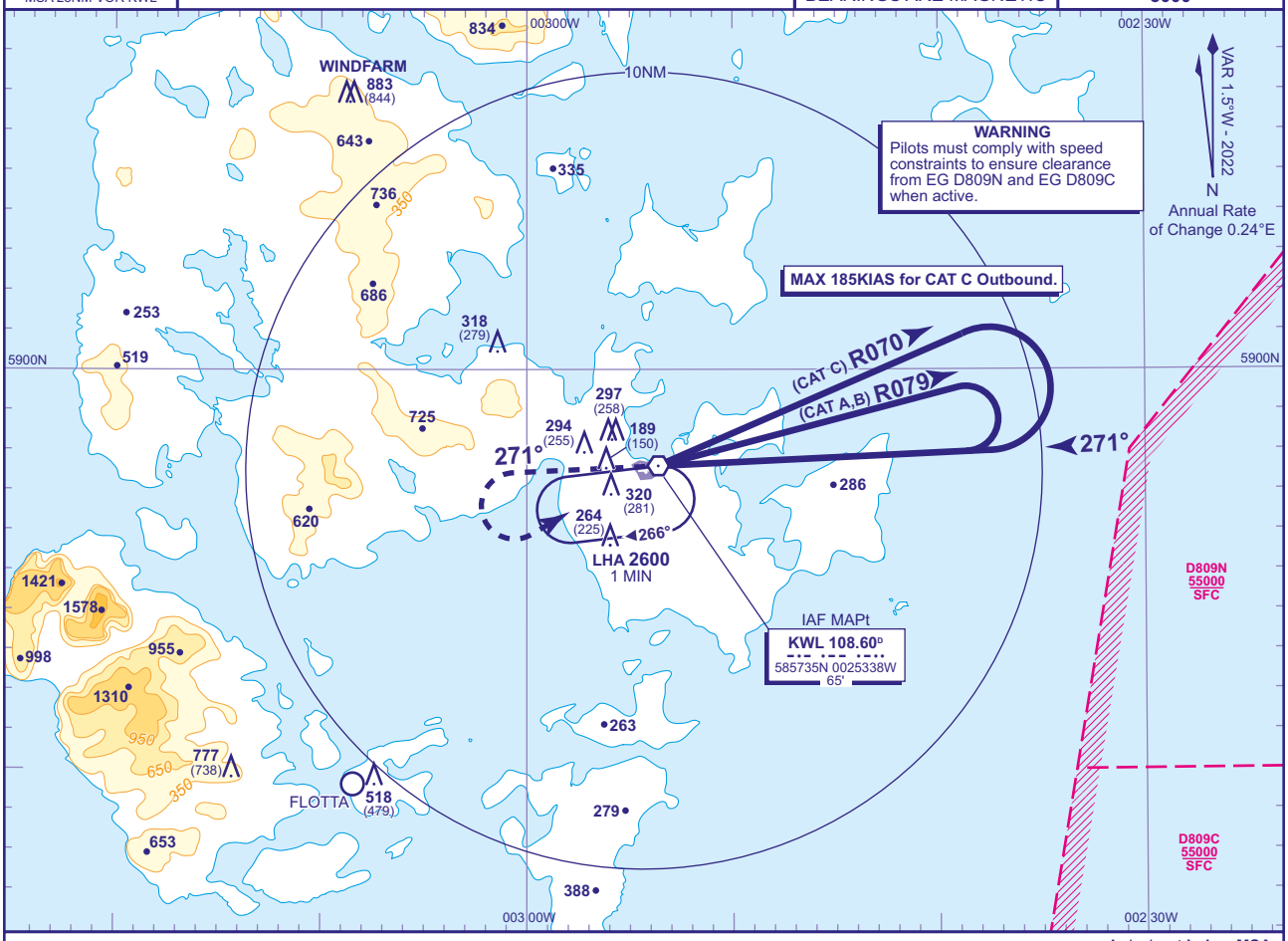
INSTRUMENT APPROACH CHART - ICAO

KIRKWALL VOR RWY 27
(ACFT CAT A,B,C)



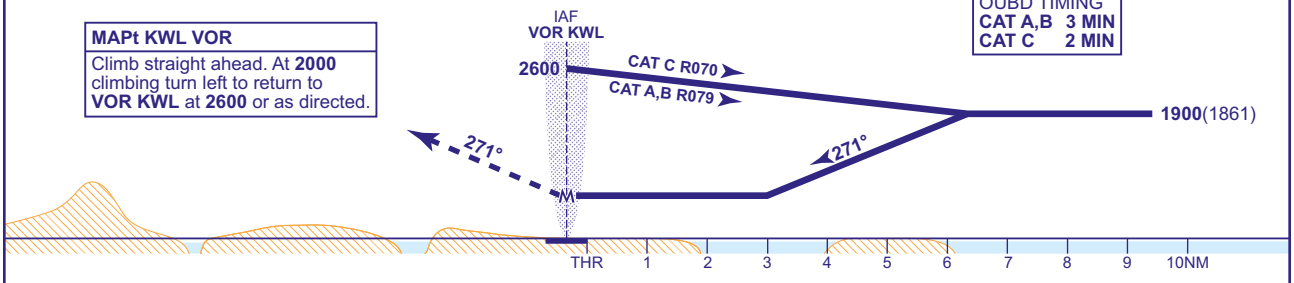
MSA 25NM VOR KWL

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58	TRANSITION ALTITUDE 3000
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39	
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION 883 AMSL (844) (ABOVE THR)		
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC		



Arrival **not below MSA**.

MAPt KWL VOR
Climb straight ahead. At **2000** climbing turn left to return to **VOR KWL** at **2600** or as directed.



OUBD TIMING
CAT A,B 3 MIN
CAT C 2 MIN

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**680**(641)	**680**(641)	**680**(641)
VM(C)OCA (OCH AAL)	Total Area	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

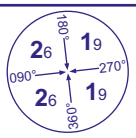
NOTE FAT offset 2° north.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

INSTRUMENT APPROACH CHART - ICAO

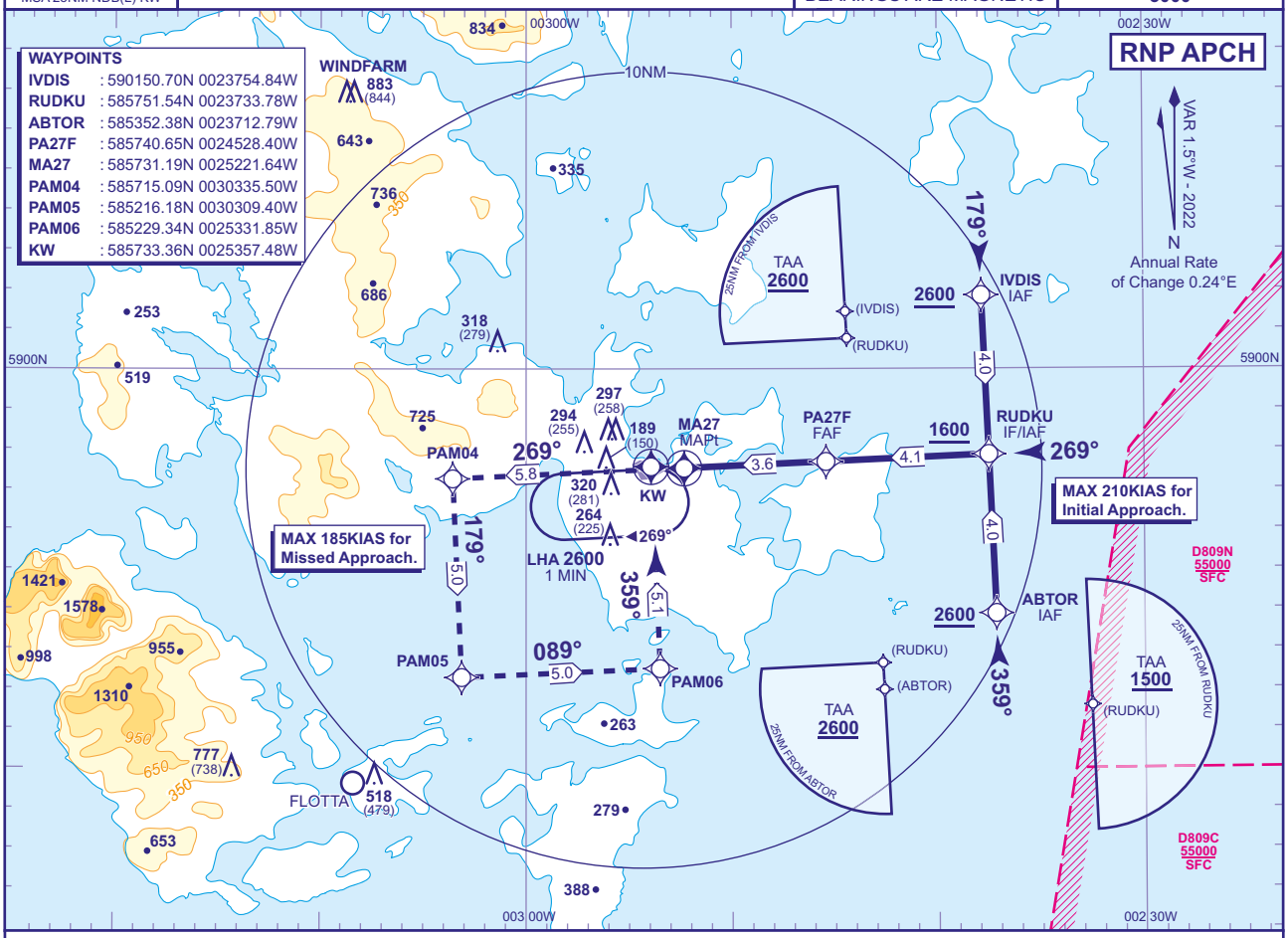
KIRKWALL
RNP
RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) KW

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



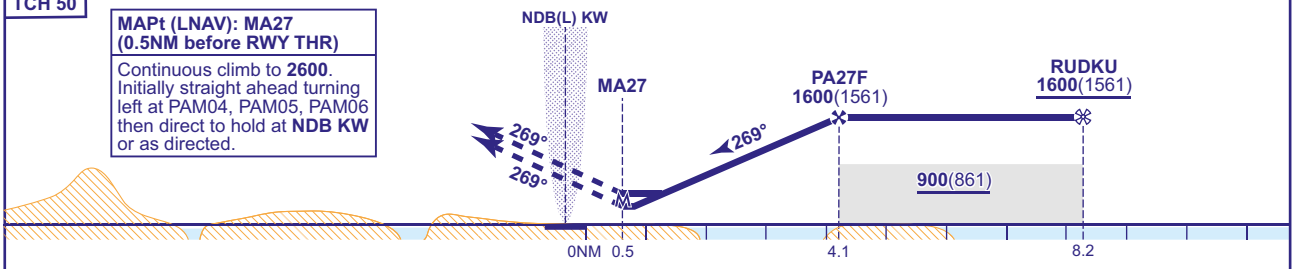
RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to MAPt (MA27)	3	2	1
ALT(HGT)	**1390**(1351)	**1020**(981)	**650**(611)

TCH 50

MAPt (LNAV): MA27 (0.5NM before RWY THR)

Continuous climb to **2600**. Initially straight ahead turning left at PAM04, PAM05, PAM06 then direct to hold at **NDB KW** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	**LNAV**	**470**(431)		
VM(C)OCA (OCH AAL)	**Total Area**	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**750**(692)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

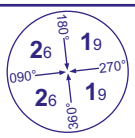
NOTE
1. Use of RNP procedures at this aerodrome restricted to Highlands and Islands Airports Ltd - Approved Operators only.
2. Use of this RNP procedure is strictly PPR from the aerodrome operator.
3. Prior to commencing the procedure, pilots are to broadcast on AFIS 118.305 with flight details and intentions.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

INSTRUMENT APPROACH CHART - ICAO

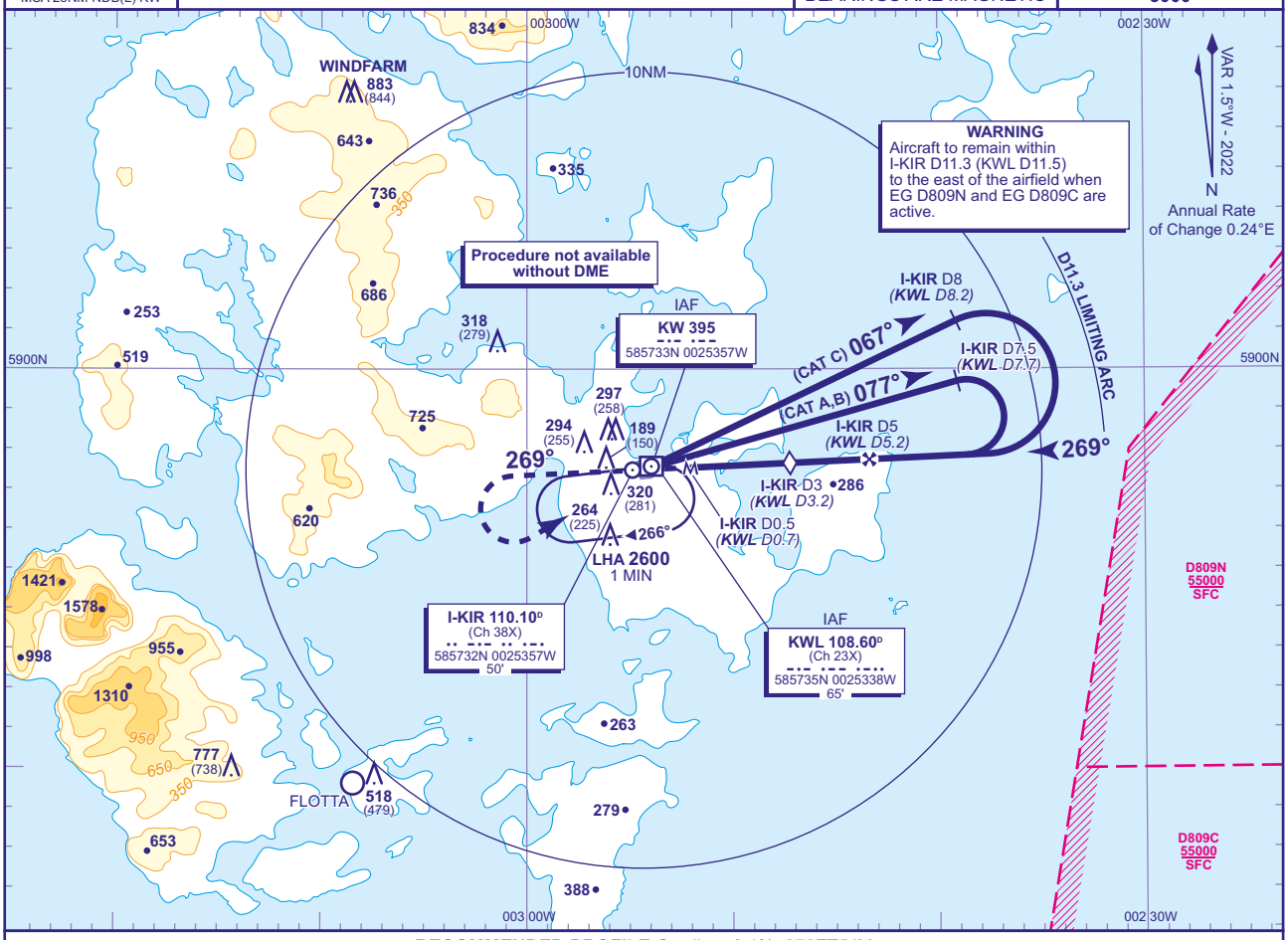
KIRKWALL NDB(L)/DME RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) KW

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58	
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39	
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)	
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**

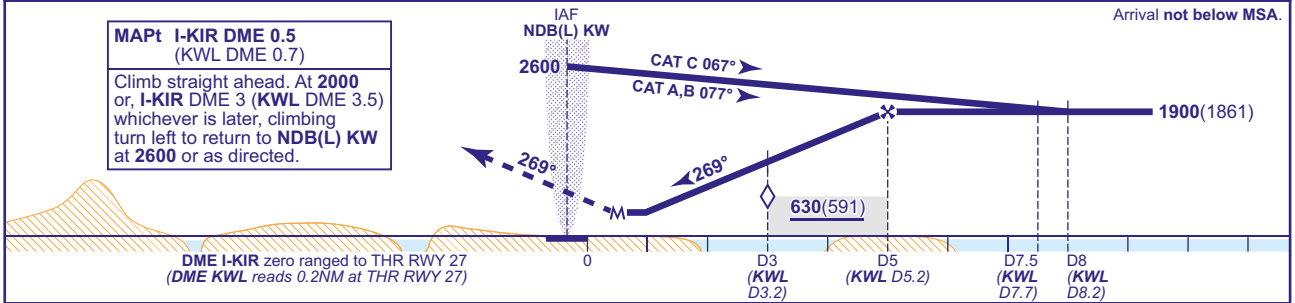


RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-KIR(KWL)	4(4.2)	3(3.2) **(SDF)**	2(2.2)	1(1.2)
ALT(HGT)	**1540**(1501)	**1180**(1141)	**810**(771)	**460**(421)

MAPt I-KIR DME 0.5
(KWL DME 0.7)

Climb straight ahead. At **2000** or, **I-KIR** DME 3 (**KWL** DME 3.5) whichever is later, climbing turn left to return to **NDB(L) KW** at **2600** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**450**(411)	**450**(411)	**450**(411)
VM(C)OCA (OCH AAL)	Total Area	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

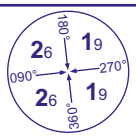
NOTE FAT is parallel to RWY C/L but offset 136 metres north.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23 AD 2-EGPA-8-12

INSTRUMENT APPROACH CHART - ICAO

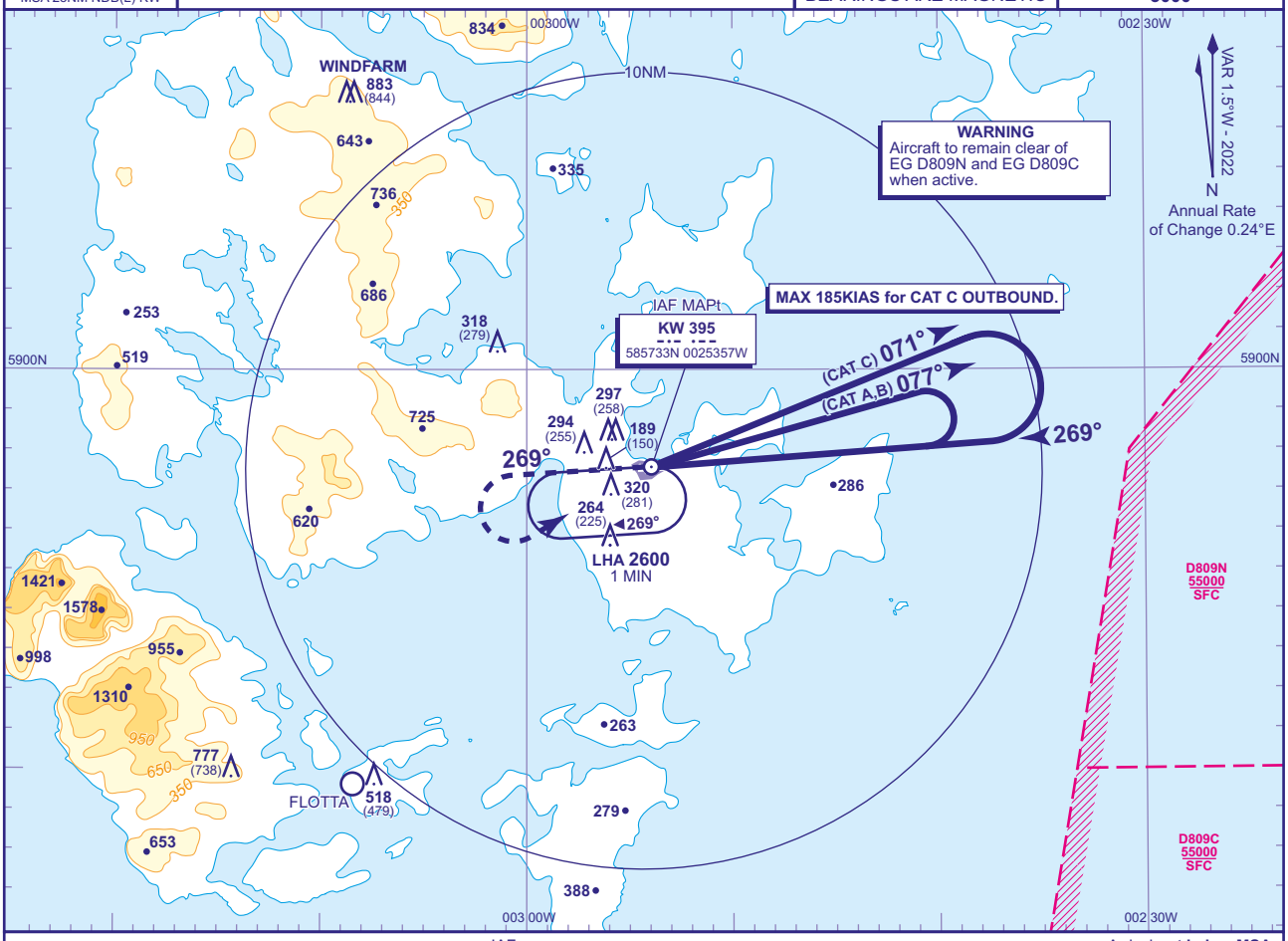
KIRKWALL NDB(L) RWY 27
(ACFT CAT A,B,C)

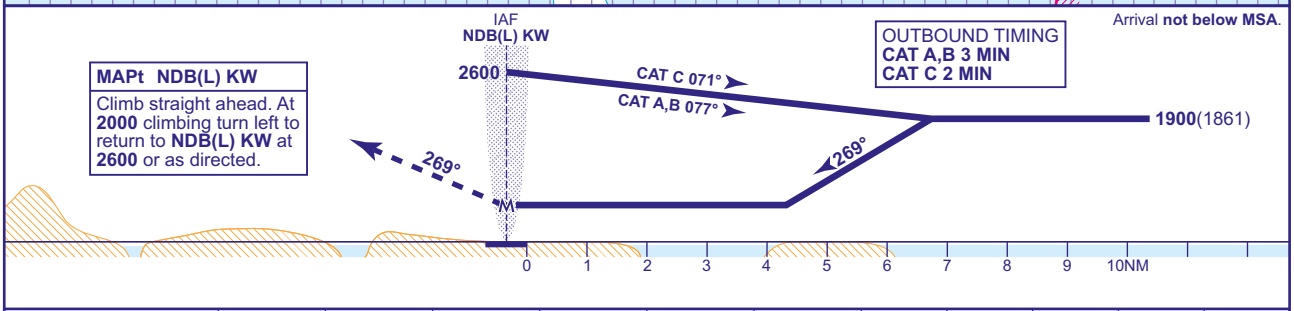


MSA 25NM NDB(L) KW

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION 883 AMSL (844) (ABOVE THR)	
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**





MAPt NDB(L) KW
Climb straight ahead. At **2000** climbing turn left to return to **NDB(L) KW** at **2600** or as directed.

OUTBOUND TIMING
CAT A,B 3 MIN
CAT C 2 MIN

Arrival **not below MSA**.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**680**(641)	**680**(641)	**680**(641)
VM(C)OCA (OCH AAL)	Total Area	**650**(592)	**660**(602)	**1250**(1192)
	South of RWY 09/27	**650**(592)	**660**(602)	**760**(702)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

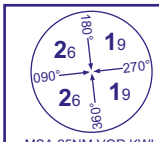
NOTE 1 FAT is parallel to RWY C/L but offset 136 metres north.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23

INSTRUMENT APPROACH CHART - ICAO

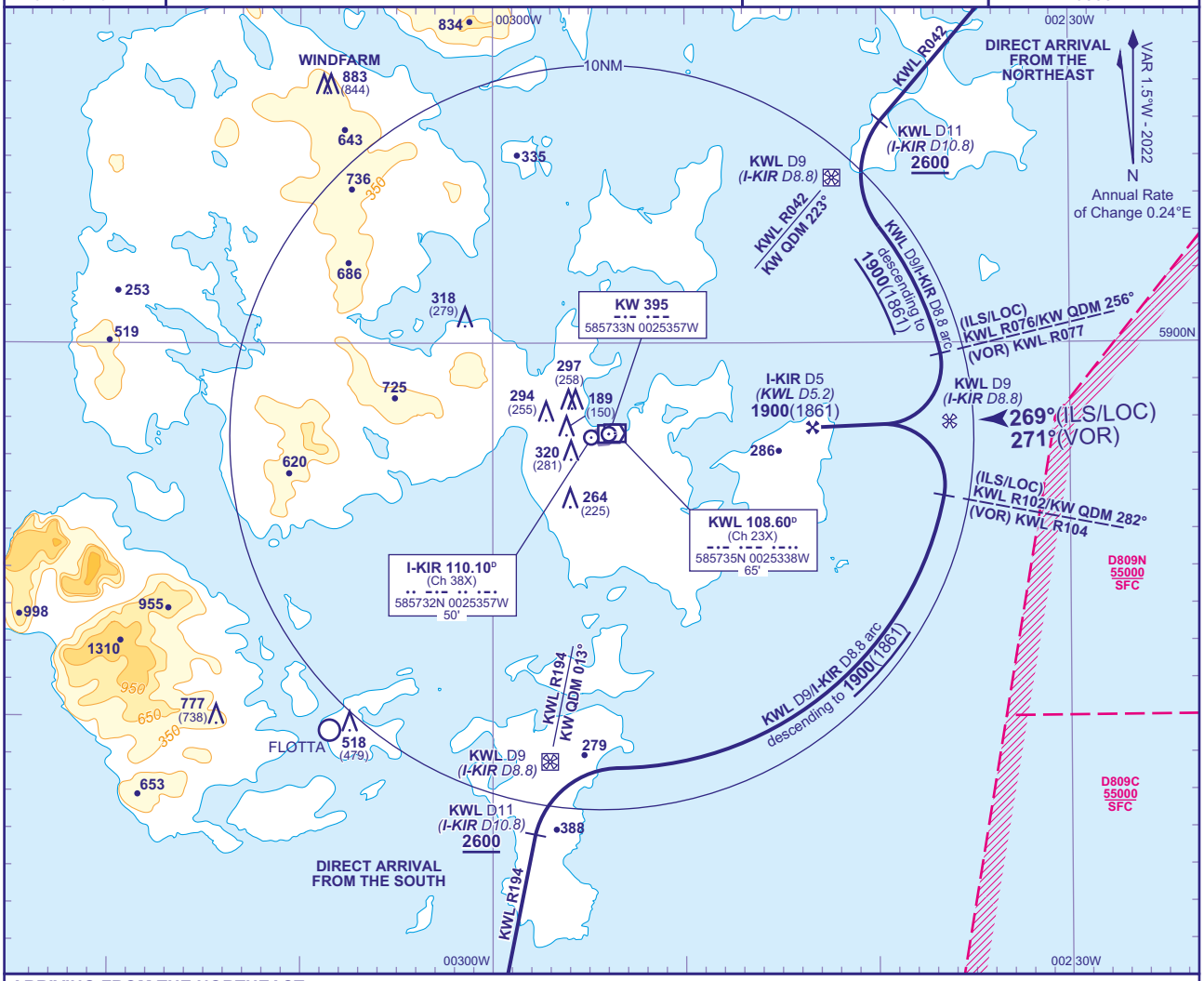
KIRKWALL DIRECT ARRIVALS RWY 27
(ACFT CAT A,B,C)



MSA 25NM VOR KWL

APP	118.305	KIRKWALL APPROACH	AD ELEVATION	58
TWR	118.305	KIRKWALL TOWER	THR ELEVATION	39
AFIS	118.305	KIRKWALL INFORMATION	OBSTACLE ELEVATION	883 AMSL (844) (ABOVE THR)
ATIS	124.130	KIRKWALL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



ARRIVING FROM THE NORTHEAST
Arrival **not below MSA**. Request ATC approval for DME arc arrival when within 40NM of Kirkwall. Intercept and establish NDB(L) KW QDM 223° inbound, or VOR DME KWL R042 **not below minimum enroute altitude**. After passing KWL DME 25 (I-KIR DME 24.5) inbound, subject to ATC approval, descend as required **not below 2600**. From KWL DME 11 (I-KIR DME 10.8) turn left to establish on KWL DME 9 (I-KIR DME 8.8) arc clockwise, (IAF on NDB(L) KW QDM 223° (VOR KWL R042) at I-KIR DME 8.8 (KWL DME 9)). When established, descend along the arc to **1900**(1861). From VOR KWL R076 (NDB(L) KW QDM 256°) (ILS/LOC) or VOR KWL R077 (VOR) turn right onto LOC/extended FAT. When established, from FAF KWL DME 5.2 (I-KIR DME 5) at **1900**(1861), continue with appropriate final approach procedure.

ARRIVING FROM THE SOUTH AND ON N560 NORTH BOUND
Arrival **not below MSA**. Request ATC approval for DME arc arrival when within 40NM of Kirkwall. Intercept and establish NDB(L) KW QDM 013° inbound, or VOR DME KWL R194 (N560) **not below minimum enroute altitude**. After passing KWL DME 15 (I-KIR DME 14.8) inbound, subject to ATC approval, descend as required **not below 2600**. From KWL DME 11 (I-KIR DME 10.8) turn right to establish on KWL DME 9 (I-KIR DME 8.8) arc anticlockwise,(IAF on NDB(L) KW QDM 013° (VOR KWL R194) at I-KIR DME 8.8 (KWL DME 9). When established, descend along the arc to **1900**(1861). From VOR KWL R102 (NDB(L) KW QDM 282°) (ILS/LOC) or VOR KWL R104 (VOR) turn left onto LOC/extended FAT. When established, from FAF KWL DME 5.2 (I-KIR DME 5) at **1900**(1861), continue with appropriate final approach procedure.

CHANGE (1/24): ATIS FREQUENCY REVISED.

AERO INFO DATE 10 NOV 23 AD 2-EGPA-8-14

Instrument Approach Procedure Coding Tables

Kirkwall RNP RWY 09 - Instrument Approach Procedure via UPLAB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	UPLAB	N	-	-	2600	-	585314.14N 0031432.45W	IAF
R09R	002	TF	PA09I	N	019° (017.4°)	RIGHT	2100	-	585702.61N 0031214.14W	IF / 9.14NM
R09R	003	TF	PA09F	N	089° (087.3°)	-	2000	-	585713.70N 0030431.28W	FAF / 5.14 NM
R09R	004	TF	RW09	Y	089° (087.3°)	-	-	-	585728.03N 0025436.44W	MAPt
R09R	005	CF	PAM01	N	089° (087.4°)	LEFT	-	185	585742.27N 0024411.37W	-
R09R	006	TF	PAM02	N	359° (357.4°)	LEFT	-	185	590241.22N 0024437.72W	-
R09R	007	TF	PAM03	N	269° (267.4°)	LEFT	-	185	590227.29N 0025417.81W	-
R09R	008	TF	KW	Y	179° (177.9°)	-	2600	185	585733.36N 0025357.48W	HOLD

Kirkwall RNP RWY 09 - Instrument Approach Procedure via ATMEX

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09C	001	IF	ATMEX	N	-	-	2600	-	585651.52N 0031956.97W	IAF
R09C	002	TF	PA09I	N	089° (087.3°)	-	2100	-	585702.61N 0031214.14W	IF / 9.14NM
R09C	003	TF	PA09F	N	089° (087.3°)	-	2000	-	585713.70N 0030431.28W	FAF / 5.14 NM
R09C	004	TF	RW09	Y	089° (087.3°)	-	-	-	585728.03N 0025436.44W	MAPt
R09C	005	CF	PAM01	N	089° (087.4°)	LEFT	-	185	585742.27N 0024411.37W	-
R09C	006	TF	PAM02	N	359° (357.4°)	LEFT	-	185	590241.22N 0024437.72W	-
R09C	007	TF	PAM03	N	269° (267.4°)	LEFT	-	185	590227.29N 0025417.81W	-
R09C	008	TF	KW	Y	179° (177.9°)	-	2600	185	585733.36N 0025357.48W	HOLD

Kirkwall RNP RWY 09 - Instrument Approach Procedure via TUVIV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09L	001	IF	TUVIV	N	-	-	2100	-	590043.60N 0031512.52W	IAF
R09L	002	TF	PA09I	N	159° (157.4°)	LEFT	2100	-	585702.61N 0031214.14W	IF / 9.14NM
R09L	003	TF	PA09F	N	089° (087.3°)	-	2000	-	585713.70N 0030431.28W	FAF / 5.14 NM
R09L	004	TF	RW09	Y	089° (087.3°)	-	-	-	585728.03N 0025436.44W	MAPt
R09L	005	CF	PAM01	N	089° (087.4°)	LEFT	-	185	585742.27N 0024411.37W	-
R09L	006	TF	PAM02	N	359° (357.4°)	LEFT	-	185	590241.22N 0024437.72W	-
R09L	007	TF	PAM03	N	269° (267.4°)	LEFT	-	185	590227.29N 0025417.81W	-
R09L	008	TF	KW	Y	179° (177.9°)	-	2600	185	585733.36N 0025357.48W	HOLD

CHANGE (8/21): NDB REFERENCE REMOVED FROM KW. KW/RW09 COORDINATES. MAG TRACKS.
AERO INFO DATE 14 MAY 21

Instrument Approach Procedure Coding Tables

Kirkwall RNP RWY 27 - Instrument Approach Procedure via IVDIS

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27R	001	IF	IVDIS	N	-	-	2600	210	590150.70N 0023754.84W	IAF
R27R	002	TF	RUDKU	N	179° (177.4°)	RIGHT	1600	210	585751.54N 0023733.78W	IF / 7.7NM
R27R	003	TF	PA27F	N	269° (267.5°)	-	1600	210	585740.65N 0024528.40W	FAF / 3.6 NM
R27R	004	TF	MA27	Y	269° (267.5°)	-	-	-	585731.19N 0025221.64W	MAPt
R27R	005	CF	PAM04	N	269° (267.5°)	LEFT	-	185	585715.09N 0030335.50W	-
R27R	006	TF	PAM05	N	179° (177.4°)	LEFT	-	185	585216.18N 0030309.40W	-
R27R	007	TF	PAM06	N	089° (087.4°)	LEFT	-	185	585229.34N 0025331.85W	-
R27R	008	TF	KW	Y	359° (357.5°)	-	2600	185	585733.36N 0025357.48W	HOLD

Kirkwall RNP RWY 27 - Instrument Approach Procedure via RUDKU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27C	001	TF	RUDKU	N	-	-	1600	210	585751.54N 0023733.78W	IAF / IF / 7.7NM
R27C	002	TF	PA27F	N	269° (267.5°)	-	1600	210	585740.65N 0024528.40W	FAF / 3.6 NM
R27C	003	TF	MA27	Y	269° (267.5°)	-	-	-	585731.19N 0025221.64W	MAPt
R27C	004	CF	PAM04	N	269° (267.5°)	LEFT	-	185	585715.09N 0030335.50W	-
R27C	005	TF	PAM05	N	179° (177.4°)	LEFT	-	185	585216.18N 0030309.40W	-
R27C	006	TF	PAM06	N	089° (087.4°)	LEFT	-	185	585229.34N 0025331.85W	-
R27C	007	TF	KW	Y	359° (357.5°)	-	2600	185	585733.36N 0025357.48W	HOLD

Kirkwall RNP RWY 27 - Instrument Approach Procedure via ABTOR

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	ABTOR	N	-	-	2600	210	585352.38N 0023712.79W	IAF
R27L	002	TF	RUDKU	N	359° (357.4°)	LEFT	1600	210	585751.54N 0023733.78W	IF / 7.7NM
R27L	003	TF	PA27F	N	269° (267.5°)	-	1600	210	585740.65N 0024528.40W	FAF / 3.6 NM
R27L	004	TF	MA27	Y	269° (267.5°)	-	-	-	585731.19N 0025221.64W	MAPt
R27L	005	CF	PAM04	N	269° (267.5°)	LEFT	-	185	585715.09N 0030335.50W	-
R27L	006	TF	PAM05	N	179° (177.4°)	LEFT	-	185	585216.18N 0030309.40W	-
R27L	007	TF	PAM06	N	089° (087.4°)	LEFT	-	185	585229.34N 0025331.85W	-
R27L	008	TF	KW	Y	359° (357.5°)	-	2600	185	585733.36N 0025357.48W	HOLD

CHANGE (12/21): PAGE RENUMBERED.

EGHC — LAND'S END

EGHC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHC — LAND'S END

EGHC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 500610N Long: 0054014W Mid-point of Runway 16/34
2	Direction and distance from city	5 NM W of Penzance.
3	Elevation / Reference temperature / Mean Low Temperature	398 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	174 FT
5	Magnetic Variation / Annual Change	1.25°W (2022) / 0.20°E
6	AD Administration Address Telephone AFS E-mail address	LAND'S END AIRPORT LTD Land's End Aerodrome, St. Just, Cornwall, TR19 7RL. 01736-788771 (Operator) 01736-788944 (ATC) EGHCZTZX atc@issg.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGHC AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0815-1730 (0710-1730); Sat 0815-1245 (0710-1730); Sunday CLOSED.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR by telephone.

EGHC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR Jet A1. (PPR by telephone)., AVGAS 100LL 80, W80, W100
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	Scheduled traffic will be given priority when refuelling. There may be a short delay to visiting aircraft.

EGHC AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	Airport Cafe.
3	Transportation	Bus.
4	Medical facilities	
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGHC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A3
2	Rescue equipment	Rosenbauer AT & Toyota Hilux 6x6.
3	Capability for removal of disabled aircraft	Aerodrome Tractor and 4x4 vehicle (up to approx 3,000 KG MTWA).
4	Remarks	

EGHC AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGHC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt
2	Taxiway width, surface and strength	Taxiway ALPHA: 10.5 M Surface: Asphalt Taxiway BRAVO: 10.5 M Grass Matting
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGHC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Aircraft are directed by ATC. Six Parking Bays plus a helipad are marked on the Main Apron. Visiting aircraft parking is indicated on the AD Chart.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Runway 07: Runway designation, centre-line. Runway 25: Runway designation, displaced threshold, centre-line. 16/34: Runway 16: Runway designation, displaced threshold, centre-line. Runway 34: Runway designation, centre-line. Runway light(s): 16/34 and 07/25: Runway edge, threshold, stop-end, APAPI and RTILs. Taxiway marking aid(s): Yellow centre-line, taxiway holding position. Taxiway light(s): Guard lights and lit information signs on Taxiway Alpha and Bravo.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI 500603.92N 0054021.08W (LGTD).

EGHC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHC1321) 25/APPROACH	CHIMNEY	500633.64N 0053901.37W	622 FT	26 FT	No	
(EGHC1132) 16/APPROACH 34/ TAKE-OFF	AERIAL	500624.79N 0054020.32W	422 FT	36 FT	No	
(EGHC1140) 16/APPROACH 34/ TAKE-OFF	TREE	500624.54N 0054019.63W	426 FT	39 FT	No	
(EGHC1139) 16/APPROACH 34/ TAKE-OFF	TREE	500623.62N 0054019.56W	410 FT	23 FT	No	
(EGHC1134) 16/APPROACH 34/ TAKE-OFF	TREE	500623.60N 0054020.07W	408 FT	21 FT	No	
(EGHC1148) 16/APPROACH 34/ TAKE-OFF	HEDGE	500623.11N 0054018.65W	394 FT	6 FT	No	
(EGHC1162) 02/TAKE-OFF	TREE	500622.98N 0054016.69W	403 FT	13 FT	No	
(EGHC1109) 16/APPROACH 34/ TAKE-OFF	ROAD	500622.97N 0054023.15W	399 FT	16 FT	No	
(EGHC1159) 02/TAKE-OFF	ROAD	500622.82N 0054017.08W	404 FT	16 FT	No	
(EGHC1334) 25/APPROACH	TREE	500622.23N 0053953.85W	449 FT	33 FT	No	
(EGHC1165) 20/APPROACH 02/ TAKE-OFF	ROAD	500622.10N 0054016.28W	404 FT	16 FT	No	
(EGHC1095) 16/APPROACH 34/ TAKE-OFF	POLE	500621.49N 0054024.49W	396 FT	15 FT	No	
(EGHC1294) 25/APPROACH	TREE	500620.68N 0053952.83W	448 FT	27 FT	No	
(EGHC1297) 25/APPROACH	TREE	500619.98N 0053951.38W	456 FT	32 FT	No	
(EGHC1295) 25/APPROACH	BUILDING	500619.87N 0053952.55W	445 FT	23 FT	No	
(EGHC1207) 25/APPROACH 07/ TAKE-OFF	ROAD	500615.06N 0054009.48W	409 FT	16 FT	No	
(EGHC1055) 11/APPROACH 29/ TAKE-OFF	ROAD	500610.66N 0054032.19W	400 FT	16 FT	No	
(EGHC1047) 11/APPROACH 29/ TAKE-OFF	ROAD	500610.16N 0054032.69W	399 FT	16 FT	No	
(EGHC1041) 29/TAKE-OFF	ROAD	500609.55N 0054034.13W	397 FT	16 FT	No	
(EGHC1010) 07/APPROACH 25/ TAKE-OFF	ROAD	500604.62N 0054045.21W	366 FT	16 FT	No	
(EGHC1227) 11/TAKE-OFF	BUILDING	500603.01N 0054005.67W	406 FT	10 FT	No	
(EGHC1251) 11/TAKE-OFF	POLE	500602.75N 0054002.91W	419 FT	19 FT	No	
(EGHC1070) 02/APPROACH 20/ TAKE-OFF	TREE	500602.16N 0054029.55W	401 FT	32 FT	No	
(EGHC1069) 02/APPROACH 20/ TAKE-OFF	TREE	500601.44N 0054029.50W	402 FT	36 FT	No	
(EGHC1255) 34/APPROACH	ROAD	500555.30N 0054001.74W	407 FT	16 FT	No	
(EGHC1232) 34/APPROACH 16/ TAKE-OFF	ROAD	500554.44N 0054004.60W	403 FT	16 FT	No	
(EGHC1213) 34/APPROACH	ROAD	500554.08N 0054007.31W	395 FT	16 FT	No	
(EGHC1218) 34/APPROACH	POLE	500547.82N 0054006.03W	415 FT	24 FT	No	
(EGHC1316) 11/TAKE-OFF	NATURAL_HIGHPOINT	500546.10N 0053919.06W	605 FT	0 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHC1305)	MAST	500826.25N 0053951.91W	834 FT	179 FT	No	
(EGHC1304)	BUILDING	500728.82N 0053948.64W	561 FT	10 FT	No	
(EGHC1279)	MAST	500710.27N 0054003.88W	555 FT	51 FT	No	
(EGHC1256)	CHIMNEY	500708.28N 0054007.26W	546 FT	29 FT	No	
(EGHC1329)	MAST	500703.81N 0053848.33W	726 FT	78 FT	Yes Solid Red	
(EGHC1319)	CHIMNEY	500703.46N 0053915.42W	581 FT	50 FT	No	
(EGHC1325)	TREE	500655.51N 0053854.10W	611 FT	27 FT	No	
(EGHC1317)	BUILDING	500646.01N 0053922.80W	517 FT	30 FT	No	
(EGHC1312)	BUILDING	500645.64N 0053931.71W	510 FT	36 FT	No	
(EGHC1321) 25/APPROACH	CHIMNEY	500633.64N 0053901.37W	622 FT	26 FT	No	
(EGHC1330)	TRIG	500624.28N 0053843.37W	740 FT	3 FT	No	
(EGHC1328)	NATURAL_HIGHPOINT	500623.90N 0053846.53W	732 FT	0 FT	No	
(EGHC1327)	NATURAL_HIGHPOINT	500623.13N 0053849.56W	722 FT	0 FT	No	
(EGHC1326)	NATURAL_HIGHPOINT	500622.62N 0053851.23W	704 FT	0 FT	No	
(EGHC1309)	BUILDING	500615.76N 0053934.02W	515 FT	30 FT	No	
(EGHC1331)	NATURAL_HIGHPOINT	500612.83N 0053837.29W	627 FT	0 FT	No	
(EGHC1306)	POLE	500609.66N 0053940.15W	499 FT	35 FT	No	
(EGHC1315)	NATURAL_HIGHPOINT	500609.05N 0053921.37W	568 FT	0 FT	No	
(EGHC1311)	NATURAL_HIGHPOINT	500608.55N 0053929.22W	519 FT	0 FT	No	
(EGHC1324)	NATURAL_HIGHPOINT	500604.78N 0053850.94W	572 FT	0 FT	No	
(EGHC1316) 11/TAKE-OFF	NATURAL_HIGHPOINT	500546.10N 0053919.06W	605 FT	0 FT	No	
(EGHC1308)	NATURAL_HIGHPOINT	500544.77N 0053932.11W	529 FT	0 FT	No	
(EGHC1313)	NATURAL_HIGHPOINT	500544.62N 0053927.03W	626 FT	0 FT	No	
(EGHC1029)	RESERVOIR COVER	500710.73N 0054041.76W	524 FT	0 FT	No	
(EGHC1024)	NATURAL_HIGHPOINT	500710.68N 0054046.47W	517 FT	0 FT	No	
(EGHC1300)	BUILDING	500725.21N 0053953.08W	549 FT	33 FT	No	
(EGHC1320)	CHIMNEY	500724.55N 0053905.83W	655 FT	39 FT	No	
(EGHC1322)	BUILDING	500722.72N 0053902.37W	643 FT	12 FT	No	
(EGHC1318)	CHIMNEY	500721.39N 0053921.68W	632 FT	52 FT	No	
(EGHC1323)	WIND TURBINE	500711.10N 0053900.63W	709 FT	112 FT	No	

EGHC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/telephone/internet.
6	Flight documentation Language(s) used	METARs and TAFs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	ATIS 122.830 MHz.
9	ATS units provided with information	LAND'S END
10	Additional information (limitation of service, etc.)	Routine observations made at H+20 and H+50 during AD hours.

EGHC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
02	019.64°	483 x 19 M	RWY surface: Grass	500604.05N 0054027.36W 174.3 FT	THR 379.5 FT	RWY 02 1:338 Up RWY 20 -1:338 Down
20	199.64°	483 x 19 M	RWY surface: Grass	500617.61N 0054019.84W 174.3 FT	THR 381.8 FT	RWY 02 1:338 Up RWY 20 -1:338 Down
07	064.73°	693 x 18 M	RWY surface: Asphalt	500605.28N 0054043.04W 174.3 FT	THR 357.2 FT	RWY 07 1:66 Up RWY 25 -1:66 Down
25	244.74°	693 x 18 M	RWY surface: Asphalt	500613.98N 0054014.37W 174.3 FT	THR 389.0 FT	RWY 07 1:66 Up RWY 25 -1:66 Down
11	112.73°	478 x 18 M	RWY surface: Grass	500609.00N 0054028.28W 174.3 FT	THR 384.7 FT	RWY 11 -1:141 Down RWY 29 1:141 Up
29	292.73°	478 x 18 M	RWY surface: Grass	500603.77N 0054008.87W 174.3 FT	THR 395.3 FT	RWY 11 -1:141 Down RWY 29 1:141 Up
16	158.22°	784 x 18 M	RWY surface: Asphalt	500618.48N 0054019.52W 174.3 FT	THR 382.6 FT	RWY 16 1:1170 Up RWY 34 -1:1170 Down
34	338.22°	784 x 18 M	RWY surface: Asphalt	500557.94N 0054006.77W 174.2 FT	THR 385.7 FT	RWY 16 1:1170 Up RWY 34 -1:1170 Down

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		543 x 60 M				RWY 02 Threshold displaced by 12 M.
		543 x 60 M				RWY 20 Threshold displaced by 27 M.
		753 x 60 M				RWY 07

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		753 x 60 M				RWY 25 Threshold displaced by 63 M.
		538 x 60 M				RWY 11 Threshold displaced by 60 M.
		538 x 60 M				RWY 29 Runway 29 is for take-off only.
		844 x 140 M				RWY 16 Threshold displaced by 101 M. 17.5 M starter strip.
	60 x 150 M	844 x 140 M				RWY 34

EGHC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
16	784 M	784 M	784 M	683 M	
34	724 M	784 M	724 M	724 M	
07	693 M	693 M	693 M	693 M	
25	693 M	693 M	693 M	630 M	
02	483 M	483 M	483 M	471 M	
20	483 M	483 M	483 M	456 M	
11	478 M	478 M	478 M	418 M	
29	478 M	478 M	478 M		Not licensed for landing.

EGHC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07	RTIL Strobes either side of landing threshold.	Green	APAPI /3.5° 30 FT 88 M			Elevated omni-directional Light intensity high	Stop End Red		
25	RTIL Strobes either side of landing threshold.	Green wingbars	APAPI /4.5° 30 FT 135 M			Elevated omni-directional Light intensity high	Stop End Red		
16	RTIL Strobes either side of landing threshold.	Green wingbars	APAPI /3.5° 30 FT 128 M			Elevated omni-directional Light intensity high	Stop End Red		
34	RTIL Strobes either side of landing threshold.	Green	APAPI /3.5° 30 FT 120 M			Elevated omni-directional Light intensity high	Stop End Red		

EGHC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 500608.92N 0054005.38W Flashing White.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 500603.42N 0054019.18W (LGTD).
3	TWY edge and centre line lighting	EDGE: Blue edge lights on Taxiway Alpha. Blue edge linlaners on Taxiway Bravo.
4	Secondary power supply/switch-over time	Yes - Diesel Generator. Auto Switch-over within 15 seconds.
5	Remarks	Main apron floodlighting. Blue edge linlaners on main apron. Holding points Alpha and Bravo both have lit holding point signs and wig-wags.

EGHC AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 500609.29N 0054008.13W, 174.3 FT
2	TLOF and/or FATO elevation	TLOF: 397.7 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGHC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LAND'S END ATZ A circle, 2 NM radius, centred at 500610N 0054014W on longest notified runway (16/34)	Upper limit: 2000 FT AGL Lower limit: SFC	G	LAND'S END TOWER English	3000 FT		
LAND'S END RMZ 501705N 0055014W - 501703N 0053706W - 500950N 0052951W - 495559N 0053109W - 495602N 0055051W - 494924N 0061338W thence clockwise by the arc of a circle radius 6 NM centred on 495451N 0061728W (STM NDB) to 500009N 0062148W - 500907N 0055514W - 501705N 0055014W	Upper limit: 4000 FT ALT Lower limit: SFC	G	LAND'S END TOWER English	3000 FT		ATS Unit callsign: Entering from East: Land's End Tower (eng) OR Culdrose Approach (eng). Entering from West: Scillies Approach (eng). Land's End RMZ hours coincident with EGHC AD hours as detailed in EGHC AD 2.3 or as activated by NOTAM.

EGHC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	LAND'S END TOWER	120.255 DOC 30 NM/8,000 FT.			Mon-Fri 0815-1730 (0710-1730); Sat 0815-1245 (0710-1730); Sunday CLOSED.	ATZ hours coincident with Tower hours.
ATIS	LAND'S END INFORMATION	122.830 DOC 40 NM/ 10,000 FT.			Mon-Fri 0815-1730 (0710-1730); Sat 0815-1245 (0710-1730); Sunday CLOSED.	ATIS hours coincident with Tower hours.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	LAND'S END FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency	

EGHC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGHC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Non-radio aircraft not accepted.
b) High visibility clothing must be worn on the apron and manoeuvring area at all times, except for passengers under escort.
c) Personal electronic devices (ie mobile phones) are not to be used on the apron without specific authorisation.
d) All visitors must use the green walkways to cross the apron and remain in one tight group when airside.
e) For security reasons, all visiting aircraft and personnel must keep well clear of the scheduled Skybus aircraft.

2 GROUND MOVEMENT

a) Aircraft entering the apron for AVGAS will park as directed by ATC. Refuelling is a self service system and instructions are displayed on the pump. As soon as refuelling is complete, pilots must immediately call ATC to reposition the aircraft.
b) Pilots are to request ATC clearance for engine start.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Some parts of the manoeuvring area are undulating.
b) A public footpath tracks within the aerodrome boundary in the vicinity of the Runway 02 undershoot.
c) This aerodrome is prone to rapid changes in meteorological conditions.
d) Turbulence and windshear may be expected at lower levels of all approaches but particularly on approaches to Runways 02, 07 and 11 due to high cliffs and orographic effect.
e) The ATC Tower infringes the 1.10 surface from the Runway 16/34 centre-line by 0.9 M.
f) Model aircraft, kite activities and live shooting (rabbit control) may take place outside of aerodrome hours.
g) Some parts of the manoeuvring area may suffer damage caused by rabbits.
h) Cables on 30 FT poles near boundary between northwest through north to southeast.
i) Use of the RNAV procedures is strictly limited to those flights specifically authorised by the Aerodrome Authority. Pilots should note that they must be appropriately qualified to fly the GNSS Approaches at Land's End (i.e. they must hold an IMC (or European equivalent) or IR rating which has included a specific module on GNSS Approaches).

5 HELICOPTER OPERATIONS

a) Helicopters capable of doing so should ground taxi rather than air taxi when operating on the apron and in areas where aircraft are parked or holding. When air taxiing is unavoidable, helicopters should avoid taxiing within three rotor diameters of other aircraft. This distance should be considered as a minimum.
b) Helicopters will usually be instructed to join the standard fixed-wing circuit pattern (left or right hand) and depart or approach via the runways. Based operators familiar with the field may be cleared for direct joins and/or direct departures/approaches to/from the helipad.
c) Helicopters requiring AVGAS are required to alight at the black painted 'X' refuelling point just west of the fixed AVGAS pump. Parking Bays 2 and 3 must not be occupied. Prompt ground handling or repositioning may be required for parking to keep the pumps clear.
d) Helicopters requiring Jet-A1 are normally required to alight on Bay 6 or the helipad.
e) Helicopters should not ground or air taxi along the grass Taxiway Bravo due to the dust/FOD hazard. Expeditious crossing of this taxiway is permitted.
f) Helicopters should be aware of potential FOD hazard (grass cuttings) in recently cut grass and should avoid overflying such areas whenever possible.
g) Helicopters are reminded that ATC permission must be obtained before engine start/rotor engagement is selected. No high power engine runs are permitted on the apron.

6 USE OF RUNWAYS

a) Departures and arrivals will not be permitted for fixed wing aircraft unless the whole of the runway to be used is clearly visible to the duty ATCO.
b) Departures and arrivals will not be permitted for helicopters when the reported visibility is less than 400 M.

7 TRAINING

Not applicable

EGHC AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGHC AD 2.22 FLIGHT PROCEDURES

1 LAND'S END RMZ

a) Passenger carrying flights operating between Land's End Airport, Penzance Heliport, Tresco Heliport and Scilly Isles / St Mary's Aerodrome operate within airspace designated as an RMZ centred on a direct track from Land's End to Scilly Isles from the SFC to 4000 FT ALT. Pilots intending to transit the Land's End RMZ must comply with section 2 below.
b) Pilots intending to transit the Land's End RMZ must contact either Culdrose ATC on 134.055, Land's End ATC on 120.255 MHz (if approaching from the east) or St Mary's ATC on 124.880 MHz (if approaching from the west), prior to entering. Pilots of aircraft transiting the Culdrose AIAA should contact Culdrose ATC on 134.055 (Refer to AD 2-EGHC-3-1).
c) Aircraft operating under VFR may be asked to follow the Northern (R252 LND) route according to traffic and/or weather conditions in the Land's End RMZ.

2 LAND'S END RMZ REQUIREMENTS

For flight within the Land's Ends RMZ aircraft commanders must comply with one of the following:

a) Establish satisfactory two-way RTF communication with and pass pertinent flight details to ATC prior to entering the Land's End RMZ and maintain two-way communication with ATC whilst operating within the Land's End RMZ.
b) Conduct flight in accordance with valid Letter of Agreement.
c) Conduct flight in accordance with agreed tactical arrangements with either Land's End ATC or St Mary's ATC.

3 CIRCUIT DIRECTIONS

a) Circuit direction is normally left hand. More than one runway may be in use and pilots are to be aware that the circuit direction may be varied by ATC.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGHC AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGHC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHC-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGHC-2-2
LAND'S END RADIO MANDATORY ZONE (RMZ)
AD 2.EGHC-3-1
INSTRUMENT APPROACH CHART RNP RWY 07 (CAT A ONLY) - ICAO
AD 2.EGHC-8-1
INSTRUMENT APPROACH CHART RNP RWY 16 (CAT A ONLY) - ICAO

AD 2.EGHC-8-2
INSTRUMENT APPROACH CHART RNP RWY 25 (CAT A ONLY) - ICAO
AD 2.EGHC-8-3
INSTRUMENT APPROACH CHART RNP RWY 34 (CAT A ONLY) - ICAO
AD 2.EGHC-8-4
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 07
AD 2.EGHC-8-5
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 16
AD 2.EGHC-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 25
AD 2.EGHC-8-7
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 34
AD 2.EGHC-8-8

EGHC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

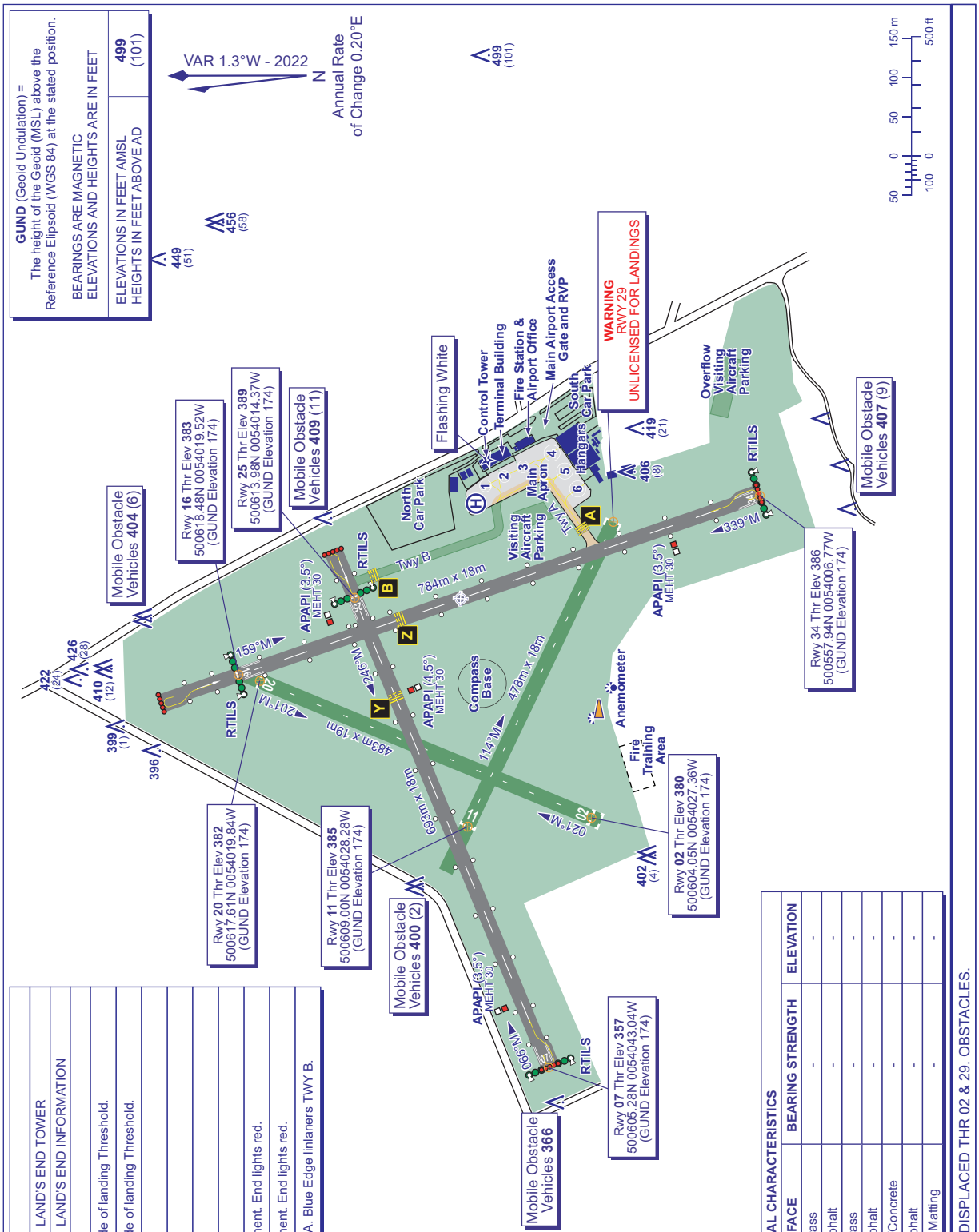
Not applicable

AERODROME CHART - ICAO

LAND'S END EGHC

ARP 500610N 0054014W

AD ELEV 398FT



COM		
TWR	120.255	LAND'S END TOWER
ATIS	122.830	LAND'S END INFORMATION

LIGHTING	
APCH 07/25	RTIL Strobes either side of landing Threshold.
APCH 16/34	RTIL Strobes either side of landing Threshold.
THR 07	HI Green.
THR 25	HI Green W bars.
THR 16	HI Green W bars.
THR 34	HI Green.
RWY 07/25	HI elev omni-d component. End lights red.
RWY 16/34	HI elev omni-d component. End lights red.
TWY	Blue Edge lights TWY A. Blue Edge linlaners TWY B.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 02/20	Grass	-	-
RWY 07/25	Asphalt	-	-
RWY 11/29	Grass	-	-
RWY 16/34	Asphalt	-	-
Main Apron	Asphalt/Concrete	-	-
TWY A	Asphalt	-	-
TWY B	Grass Matting	-	-

CHANGE (7/24): HOLDS B, Y & Z. DISPLACED THR 02 & 29. OBSTACLES.

AERO INFO DATE 17 APR 24

AD 2-EGHC-2-1

LAND'S END EGHC

AD ELEV 398FT

ARP 500610N 0054014W

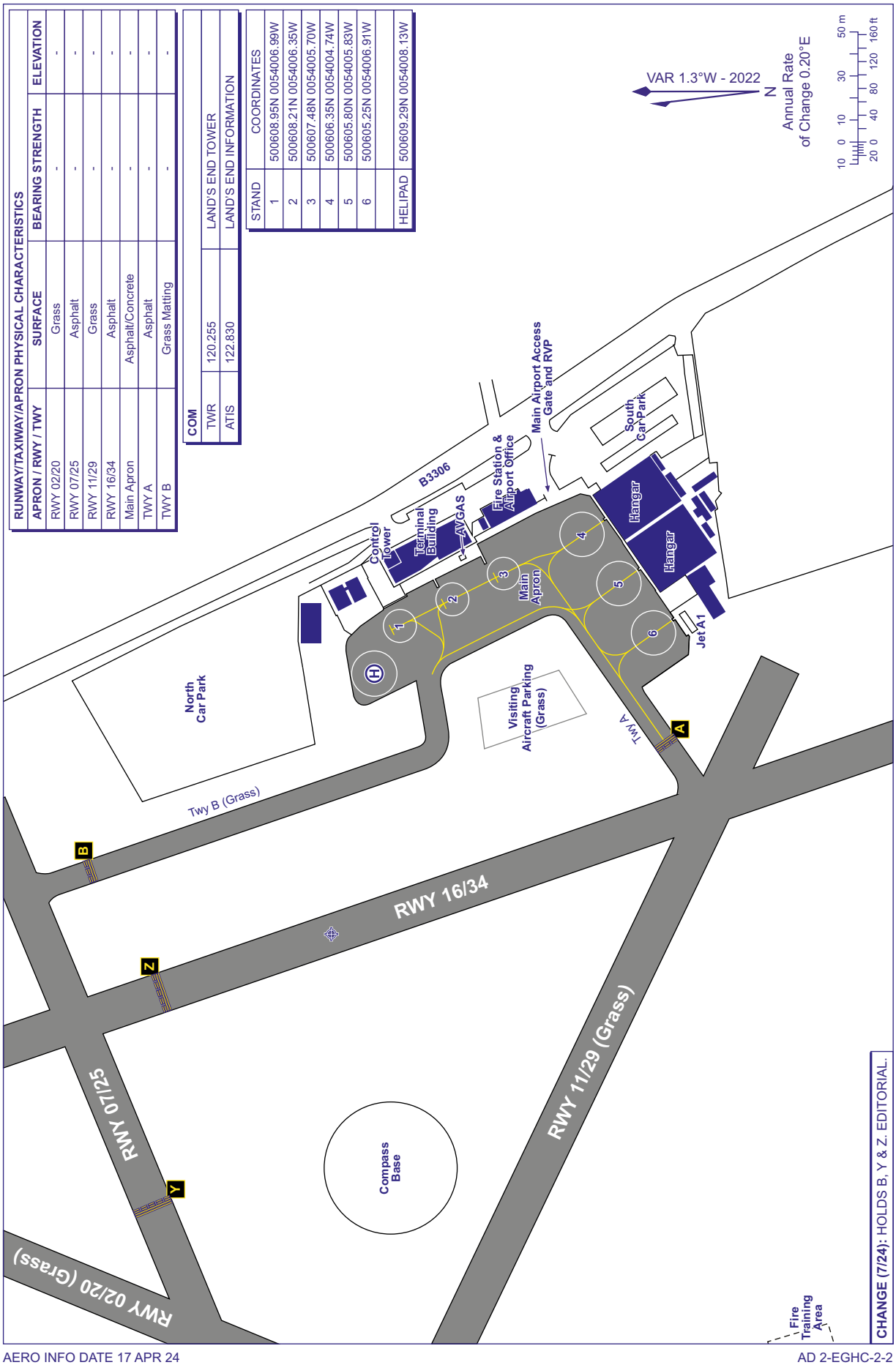
AIRCRAFT PARKING/DOCKING CHART - ICAO

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 02/20	Grass	-	-
RWY 07/25	Asphalt	-	-
RWY 11/29	Grass	-	-
RWY 16/34	Asphalt	-	-
Main Apron	Asphalt/Concrete	-	-
TWY A	Asphalt	-	-
TWY B	Grass Matting	-	-

COM	
TWR	120.255
ATIS	122.830

LAND'S END TOWER
LAND'S END INFORMATION

STAND	COORDINATES
1	500608.95N 0054006.99W
2	500608.21N 0054006.35W
3	500607.48N 0054005.70W
4	500606.35N 0054004.74W
5	500605.80N 0054005.83W
6	500605.25N 0054006.91W
HELIPAD	500609.29N 0054008.13W

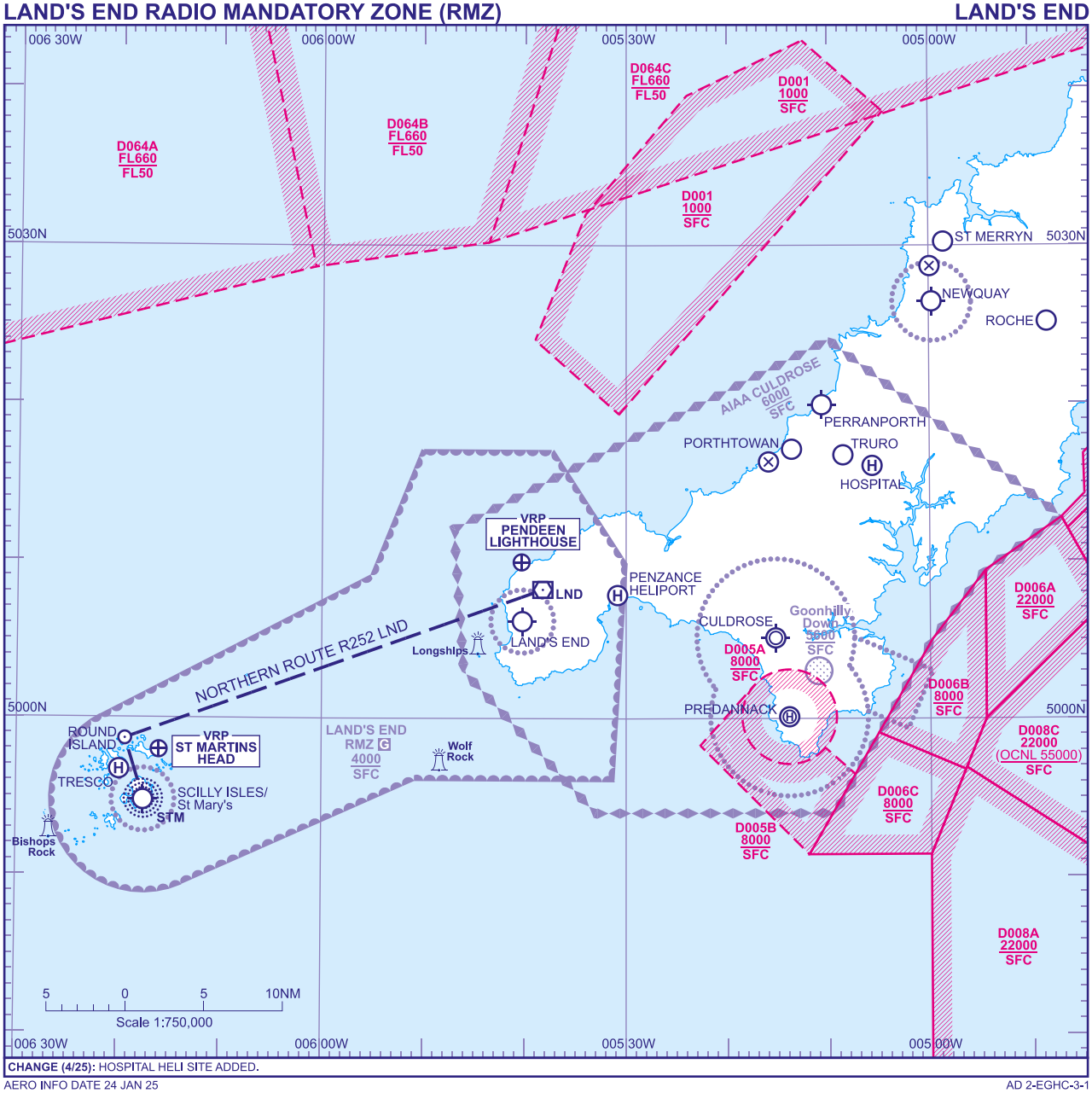


AERO INFO DATE 17 APR 24

AD 2-EGHC-2-2

LAND'S END RADIO MANDATORY ZONE (RMZ)

LAND'S END



CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 24 JAN 25

AD 2-EGHC-3-1

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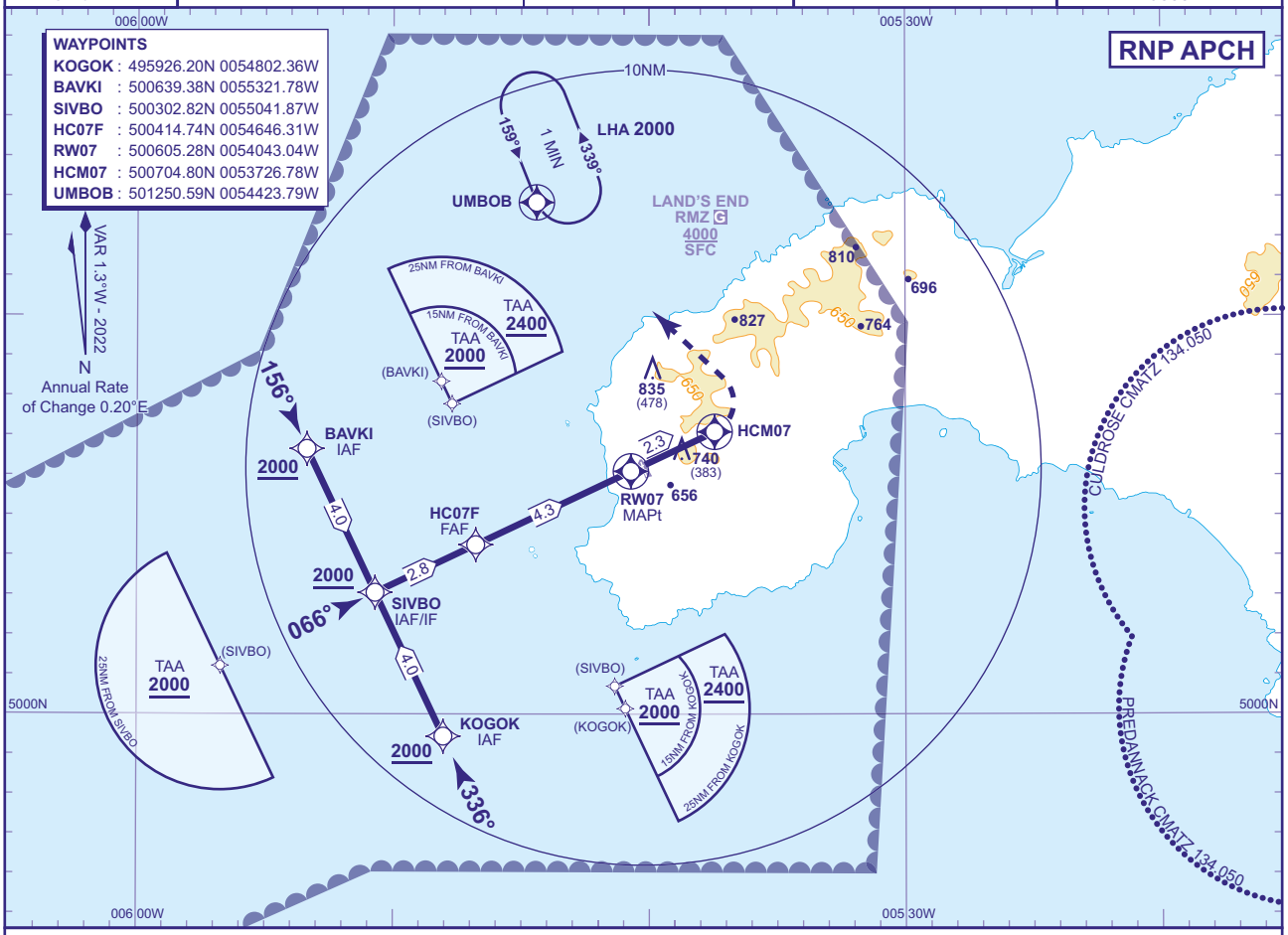
INSTRUMENT APPROACH CHART - ICAO

LAND'S END RNP RWY 07 (ACFT CAT A ONLY)

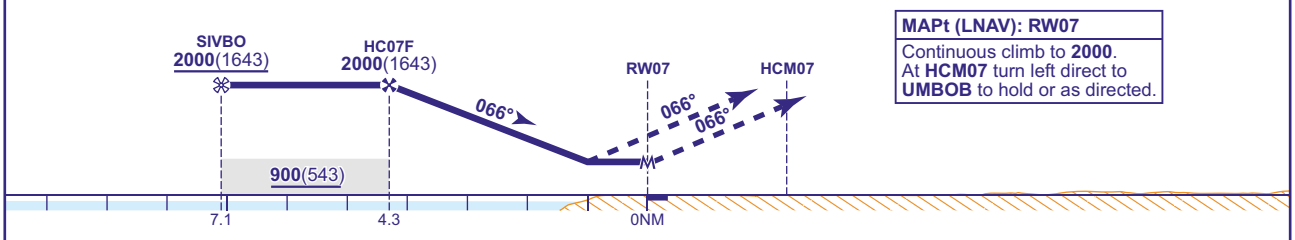
2₄ MSA 25NM ARP	TWR 120.255	LAND'S END TOWER	AD ELEVATION 398	TRANSITION ALTITUDE 3000
	ATIS 122.830	LAND'S END INFORMATION	THR ELEVATION 357	
			OBSTACLE ELEVATION 835 AMSL (478) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW07	4	3	2
ALT(HGT)	**1880**(1523)	**1510**(1153)	**1140**(783)

TCH 40



MAPt (LNAV): RW07
Continuous climb to **2000**.
At **HCM07** turn left direct to **UMBOB** to hold or as directed.

Aircraft Category		A
OCA (OCH)	LNAV	**860**(503)
VM(C)OCA (OCH AAL)	Total Area	**1040**(642)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE 1 Use of this RNP procedure is strictly limited to flights authorised by the Aerodrome Authority.
2 Pilots must be appropriately qualified to fly RNP approaches. See EGHC AD 2.20 Para 4.
3 Threshold QFE is available on request.

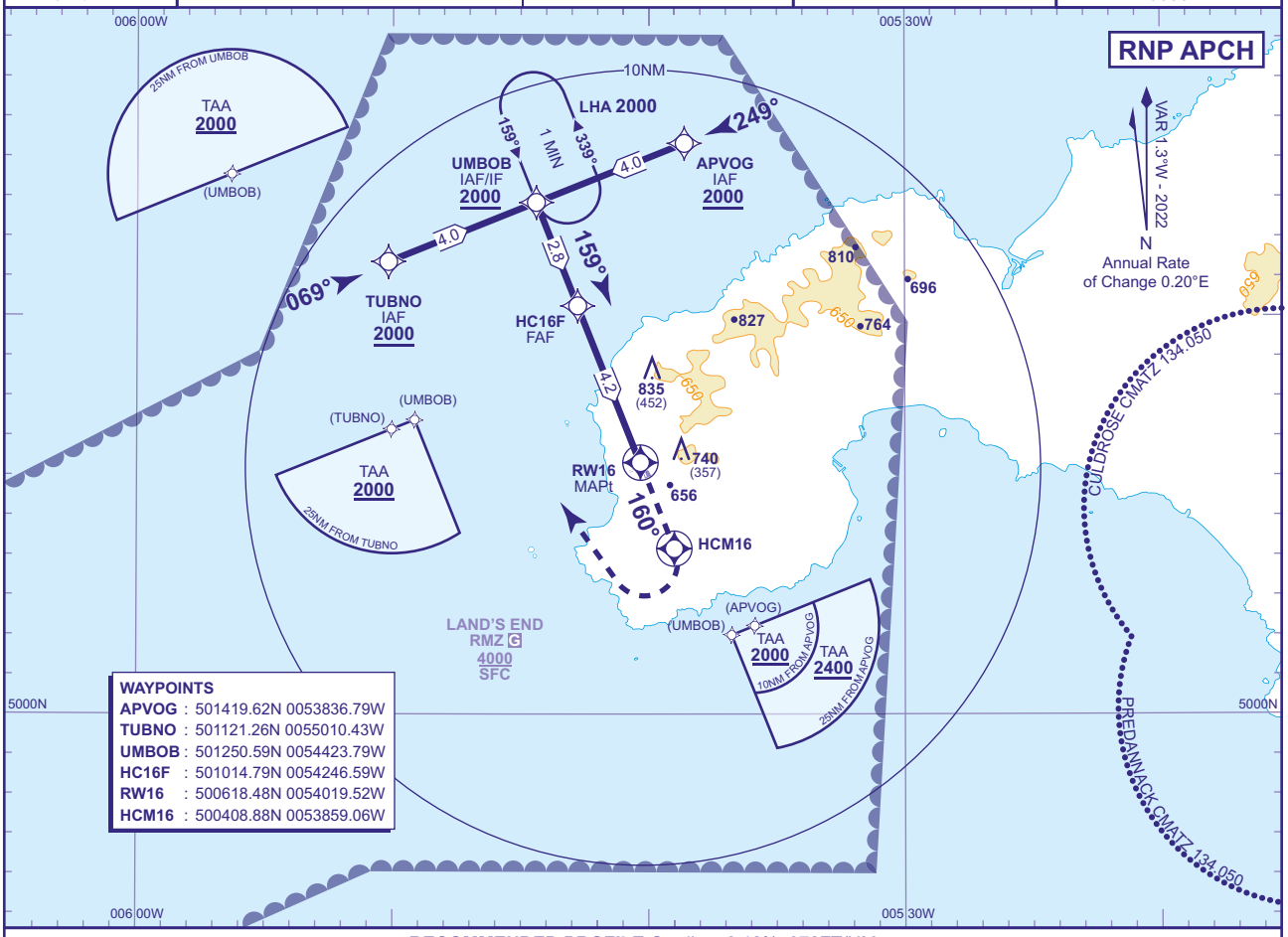
CHANGE (2/24): ATIS ADDED.

AERO INFO DATE 28 NOV 23

INSTRUMENT APPROACH CHART - ICAO

LAND'S END
RNP
RWY 16
(ACFT CAT A ONLY)

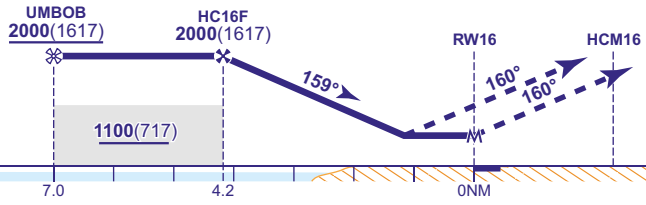
2₄ MSA 25NM ARP	TWR 120.255	LAND'S END TOWER	AD ELEVATION 398	TRANSITION ALTITUDE 3000
	ATIS 122.830	LAND'S END INFORMATION	THR ELEVATION 383	
			OBSTACLE ELEVATION 835 AMSL (452) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW16	4	3	2
ALT(HGT)	**1900**(1517)	**1530**(1147)	**1160**(777)

TCH 40



MAPt (LNAV): RW16
Continuous climb to **2000**.
At **HCM16** turn right direct to **TUBNO** then **UMBOB** to hold or as directed.

Aircraft Category		A
OCA (OCH)	**LNAV**	**890**(507)
VM(C)OCA (OCH AAL)	**Total Area**	**1040**(642)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE 1 Use of this RNP procedure is strictly limited to flights authorised by the Aerodrome Authority.
2 Pilots must be appropriately qualified to fly RNP approaches. See EGHC AD 2.20 Para 4.
3 Threshold QFE is available on request.

CHANGE (2/24): ATIS ADDED.

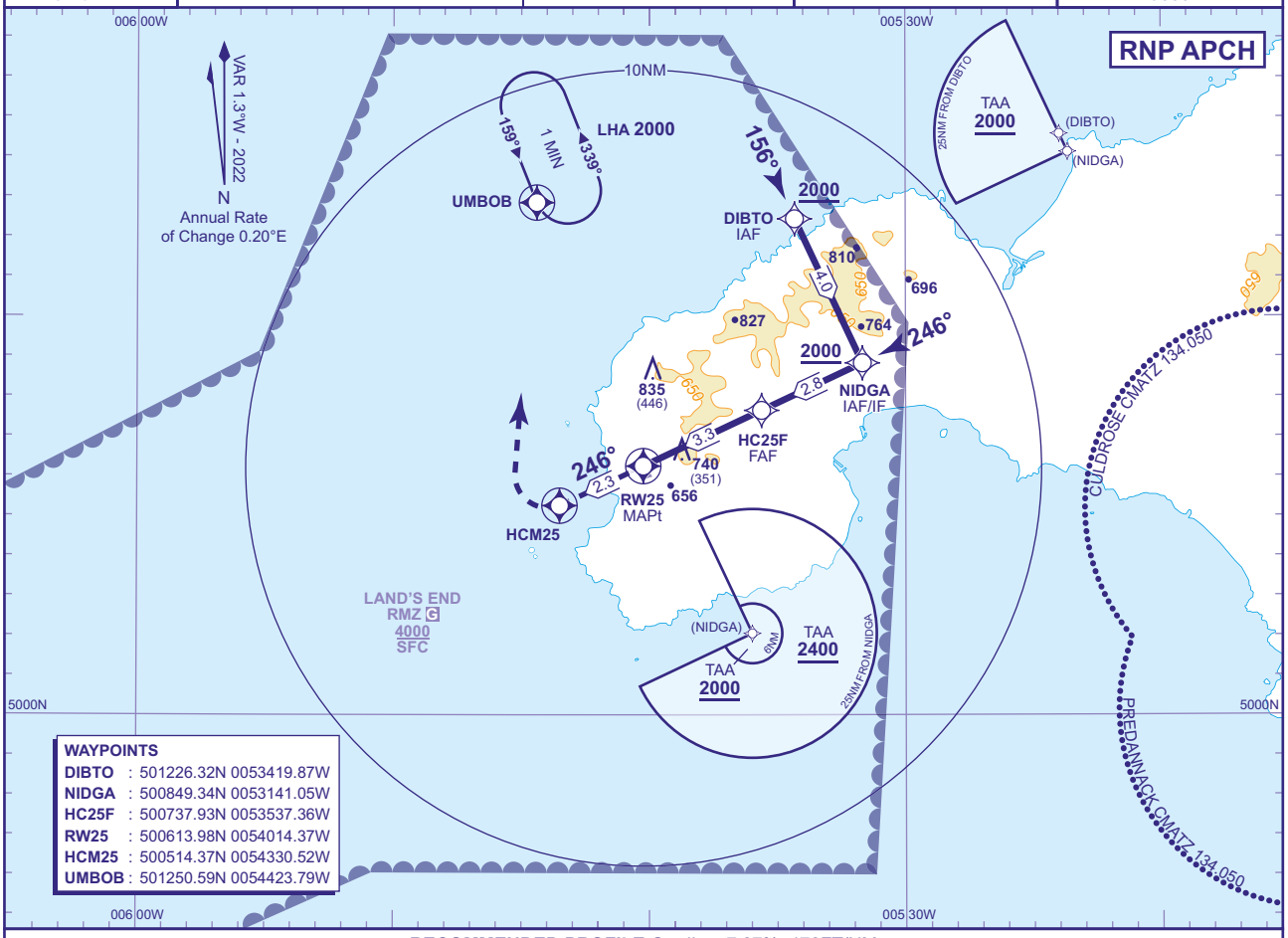
AERO INFO DATE 28 NOV 23

AD 2-EGHC-8-2

INSTRUMENT APPROACH CHART - ICAO

LAND'S END RNP RWY 25 (ACFT CAT A ONLY)

2₄ MSA 25NM ARP	TWR 120.255	LAND'S END TOWER	AD ELEVATION 398	TRANSITION ALTITUDE 3000
	ATIS 122.830	LAND'S END INFORMATION	THR ELEVATION 389	
			OBSTACLE ELEVATION 835 AMSL (446) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	



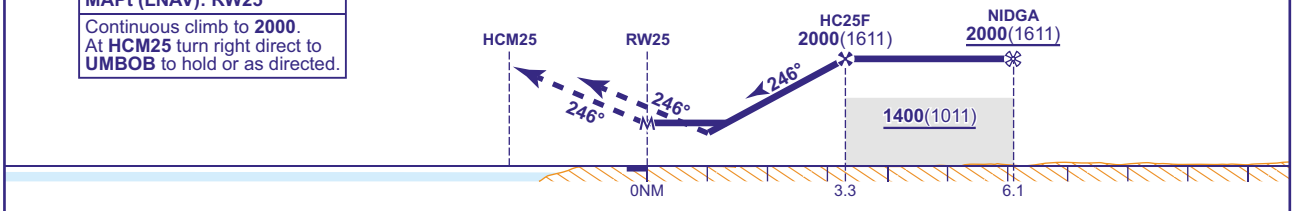
RECOMMENDED PROFILE Gradient 7.87%, 478FT/NM

NM to RW25	3	2	1
ALT(HGT)	**1860**(1471)	**1390**(1001)	**910**(521)

TCH 40

MAPt (LNAV): RW25

Continuous climb to **2000**.
At **HCM25** turn right direct to **UMBOB** to hold or as directed.



Aircraft Category		A
OCA (OCH)	LNAV	**1040**(651)
VM(C)OCA (OCH AAL)	Total Area	**1040**(642)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1280	1120	960	800	640

NOTE 1 Steep final approach descent gradient 7.87% matched to APAPI angle 4.5°.
2 Use of this RNP procedure is strictly limited to flights authorised by the Aerodrome Authority.
3 Pilots must be appropriately qualified to fly RNP approaches. See EGHC AD 2.20 Para 4.
4 Threshold QFE is available on request.

CHANGE (2/24): ATIS ADDED.

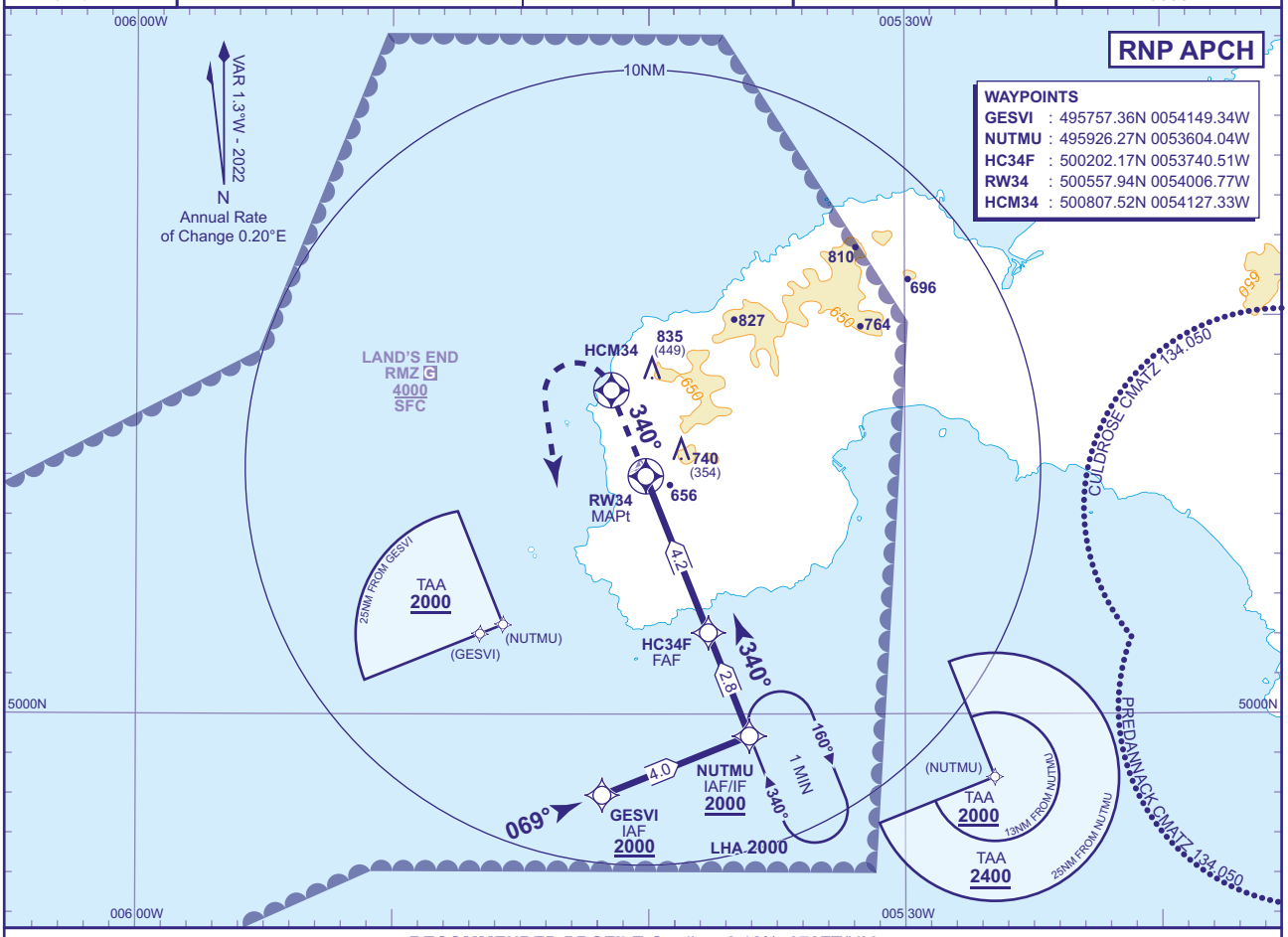
AERO INFO DATE 28 NOV 23

AD 2-EGHC-8-3

INSTRUMENT APPROACH CHART - ICAO

LAND'S END
RNP
RWY 34
(ACFT CAT A ONLY)

2₄ MSA 25NM ARP	TWR 120.255	LAND'S END TOWER	AD ELEVATION 398	TRANSITION ALTITUDE 3000
	ATIS 122.830	LAND'S END INFORMATION	THR ELEVATION 386	
			OBSTACLE ELEVATION 835 AMSL (449) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

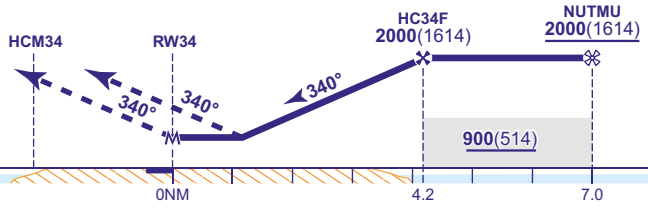


RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW34	4	3	2
ALT(HGT)	**1900**(1514)	**1530**(1144)	**1160**(774)

TCH 40

MAPt (LNAV): RW34
Continuous climb to **2000**.
At **HCM34** turn left direct to **GESVI** then **NUTMU** to hold or as directed.



Aircraft Category		A
OCA (OCH)	LNAV	**890**(504)
VM(C)OCA (OCH AAL)	Total Area	**1040**(642)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE 1 Use of this RNP procedure is strictly limited to flights authorised by the Aerodrome Authority.
2 Pilots must be appropriately qualified to fly RNP approaches. See EGHC AD 2.20 Para 4.
3 Threshold QFE is available on request.

CHANGE (2/24): ATIS ADDED.

AERO INFO DATE 30 NOV 23

Instrument Approach Procedure Coding Tables

Land's End RNP RWY 07 - Instrument Approach Procedure via BAVKI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07L	001	IF	BAVKI	N	-	-	2000	-	500639.38N 0055321.78W	IAF
R07L	002	TF	SIVBO	N	156° (154.6°)	LEFT	2000	-	500302.82N 0055041.87W	IF / 7.1NM
R07L	003	TF	HC07F	N	066° (064.6°)	-	2000	-	500414.74N 0054646.31W	FAF / 4.3NM
R07L	004	TF	RW07	Y	066° (064.7°)	-	-	-	500605.28N 0054043.04W	MAPt
R07L	005	TF	HCM07	Y	066° (064.7°)	LEFT	-	-	500704.80N 0053726.78W	-
R07L	006	DF	UMBOB	Y	-	-	2000	-	501250.59N 0054423.79W	HOLD

Land's End RNP RWY 07 - Instrument Approach Procedure SIVBO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07C	001	IF	SIVBO	N	-	-	2000	-	500302.82N 0055041.87W	IAF / IF / 7.1NM
R07C	002	TF	HC07F	N	066° (064.6°)	-	2000	-	500414.74N 0054646.31W	FAF / 4.3NM
R07C	003	TF	RW07	Y	066° (064.7°)	-	-	-	500605.28N 0054043.04W	MAPt
R07C	004	TF	HCM07	Y	066° (064.7°)	LEFT	-	-	500704.80N 0053726.78W	-
R07C	005	DF	UMBOB	Y	-	-	2000	-	501250.59N 0054423.79W	HOLD

Land's End RNP RWY 07 - Instrument Approach Procedure via KOGOK

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07R	001	IF	KOGOK	N	-	-	2000	-	495926.20N 0054802.36W	IAF
R07R	002	TF	SIVBO	N	336° (334.6°)	RIGHT	2000	-	500302.82N 0055041.87W	IF / 7.1NM
R07R	003	TF	HC07F	N	066° (064.6°)	-	2000	-	500414.74N 0054646.31W	FAF / 4.3NM
R07R	004	TF	RW07	Y	066° (064.7°)	-	-	-	500605.28N 0054043.04W	MAPt
R07R	005	TF	HCM07	Y	066° (064.7°)	LEFT	-	-	500704.80N 0053726.78W	-
R07R	006	DF	UMBOB	Y	-	-	2000	-	501250.59N 0054423.79W	HOLD

CHANGE (13/21): APOSTROPHE ADDED TO AERODROME NAME.

AERO INFO DATE 09 SEP 21

Instrument Approach Procedure Coding Tables

Land's End RNP RWY 16 - Instrument Approach Procedure via APVOG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R16L	001	IF	APVOG	N	-	-	2000	-	501419.62N 0053836.79W	IAF
R16L	002	TF	UMBOB	N	249° (248.2°)	LEFT	2000	-	501250.59N 0054423.79W	IF / 7.0NM
R16L	003	TF	HC16F	N	159° (158.2°)	-	2000	-	501014.79N 0054246.59W	FAF / 4.2NM
R16L	004	TF	RW16	Y	160° (158.3°)	-	-	-	500618.48N 0054019.52W	MAPt
R16L	005	TF	HCM16	Y	160° (158.3°)	-	-	-	500408.88N 0053859.06W	-
R16L	006	DF	TUBNO	N	-	RIGHT	-	-	501121.26N 0055010.43W	-
R16L	007	TF	UMBOB	Y	069° (068.0°)	RIGHT	2000	-	501250.59N 0054423.79W	HOLD

Land's End RNP RWY 16 - Instrument Approach Procedure UMBOB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R16C	001	IF	UMBOB	N	-	-	2000	-	501250.59N 0054423.79W	IAF / IF / 7.0NM
R16C	002	TF	HC16F	N	159° (158.2°)	-	2000	-	501014.79N 0054246.59W	FAF / 4.2NM
R16C	003	TF	RW16	Y	160° (158.3°)	-	-	-	500618.48N 0054019.52W	MAPt
R16C	004	TF	HCM16	Y	160° (158.3°)	-	-	-	500408.88N 0053859.06W	-
R16C	005	DF	TUBNO	N	-	RIGHT	-	-	501121.26N 0055010.43W	-
R16C	006	TF	UMBOB	Y	069° (068.0°)	RIGHT	2000	-	501250.59N 0054423.79W	HOLD

Land's End RNP RWY 16 - Instrument Approach Procedure via TUBNO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R16R	001	IF	TUBNO	N	-	-	2000	-	501121.26N 0055010.43W	IAF
R16R	002	TF	UMBOB	N	069° (068.0°)	RIGHT	2000	-	501250.59N 0054423.79W	IF / 7.0NM
R16R	003	TF	HC16F	N	159° (158.2°)	-	2000	-	501014.79N 0054246.59W	FAF / 4.2NM
R16R	004	TF	RW16	Y	160° (158.3°)	-	-	-	500618.48N 0054019.52W	MAPt
R16R	005	TF	HCM16	Y	160° (158.3°)	-	-	-	500408.88N 0053859.06W	-
R16R	006	DF	TUBNO	N	-	RIGHT	-	-	501121.26N 0055010.43W	-
R16R	007	TF	UMBOB	Y	063° (068.0°)	RIGHT	2000	-	501250.59N 0054423.79W	HOLD

CHANGE (13/21): APOSTROPHE ADDED TO AERODROME NAME.

Instrument Approach Procedure Coding Tables

Land's End RNP RWY 25 - Instrument Approach Procedure via DIBTO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25R	001	IF	DIBTO	N	-	-	2000	-	501226.32N 0053419.87W	IAF
R25R	002	TF	NIDGA	N	156° (154.8°)	RIGHT	2000	-	500849.34N 0053141.05W	IF / 6.1NM
R25R	003	TF	HC25F	N	246° (244.8°)	-	2000	-	500737.93N 0053537.36W	FAF / 3.3NM
R25R	004	TF	RW25	Y	246° (244.8°)	-	-	-	500613.98N 0054014.37W	MAPt
R25R	005	TF	HCM25	Y	246° (244.7°)	RIGHT	-	-	500514.37N 0054330.52W	-
R25R	006	DF	UMBOB	Y	-	-	2000	-	501250.59N 0054423.79W	HOLD

Land's End RNP RWY 25 - Instrument Approach Procedure via NIDGA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25C	001	IF	NIDGA	N	-	-	2000	-	500849.34N 0053141.05W	IAF / IF / 6.1NM
R25C	002	TF	HC25F	N	246° (244.8°)	-	2000	-	500737.93N 0053537.36W	FAF / 3.3NM
R25C	003	TF	RW25	Y	246° (244.8°)	-	-	-	500613.98N 0054014.37W	MAPt
R25C	004	TF	HCM25	Y	246° (244.7°)	RIGHT	-	-	500514.37N 0054330.52W	-
R25C	005	DF	UMBOB	Y	-	-	2000	-	501250.59N 0054423.79W	HOLD

CHANGE (13/21): APOSTROPHE ADDED TO AERODROME NAME.

AERO INFO DATE 09 SEP 21

Instrument Approach Procedure Coding Tables

Land's End RNP RWY 34 - Instrument Approach Procedure via GESVI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R34L	001	IF	GESVI	N	-	-	2000	-	495757.36N 0054149.34W	IAF
R34L	002	TF	NUTMU	N	069° (068.2°)	LEFT	2000	-	495926.27N 0053604.04W	IF / 7.0NM
R34L	003	TF	HC34F	N	340° (338.3°)	-	2000	-	500202.17N 0053740.51W	FAF / 4.2NM
R34L	004	TF	RW34	Y	340° (338.3°)	-	-	-	500557.94N 0054006.77W	MAPt
R34L	005	TF	HCM34	Y	340° (338.3°)	-	-	-	500807.52N 0054127.33W	-
R34L	006	DF	GESVI	N	-	LEFT	-	-	495757.36N 0054149.34W	-
R34L	007	TF	NUTMU	Y	069° (068.2°)	LEFT	2000	-	495926.27N 0053604.04W	HOLD

Land's End RNP RWY 34 - Instrument Approach Procedure NUTMU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R34C	001	IF	NUTMU	N	-	-	2000	-	495926.27N 0053604.04W	IAF / IF / 7.0NM
R34C	002	TF	HC34F	N	340° (338.3°)	-	2000	-	500202.17N 0053740.51W	FAF / 4.2NM
R34C	003	TF	RW34	Y	340° (338.3°)	-	-	-	500557.94N 0054006.77W	MAPt
R34C	004	TF	HCM34	Y	340° (338.3°)	-	-	-	500807.52N 0054127.33W	-
R34C	005	DF	GESVI	N	-	LEFT	-	-	495757.36N 0054149.34W	-
R34C	006	TF	NUTMU	Y	069° (068.2°)	LEFT	2000	-	495926.27N 0053604.04W	HOLD

CHANGE (13/21): APOSTROPHE ADDED TO TITLES.

EGKH — LASHENDEN/HEADCORN

EGKH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGKH — LASHENDEN/HEADCORN

EGKH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 510923N Long: 0003840E Mid-point of Runway 10/28.
2	Direction and distance from city	8 NM S of Maidstone, Kent.
3	Elevation / Reference temperature / Mean Low Temperature	70 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	1.60°E (2027) / 0.17°E
6	AD Administration Address Telephone Telefax	MR. J.P.A. FREEMAN Shenley Farms (Engineering) Ltd, Headcorn Aerodrome, Headcorn, Kent, TN27 9HX. 01622-890226 01622-890236 (Outside normal Aerodrome hours) 01622-890876
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGKH AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1900 (0800-1800) or SS, whichever is earlier, and by arrangement.
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR by telephone.

EGKH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL, AVGAS UL91 Aeroshell 100, 80, W100, W100+, W80, W15W50
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGKH AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	Cafe on aerodrome.
3	Transportation	
4	Medical facilities	
5	Bank and Post Office	
6	Tourist Office	

7	Remarks	

EGKH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 available on request.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Local facilities.
4	Remarks	

EGKH AD 2.7 SEASONAL AVAILABILITY - CLEARING

INTENTIONALLY BLANK

EGKH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

INTENTIONALLY BLANK

EGKH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway light(s): 44 portable Metalite battery powered lights. 6 red/green lights for Runway 10/28 thresholds.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Illuminated wind direction indicator - 510919.28N 0003842.98E.

EGKH AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
10/APPROACH 28/TAKE-OFF	Vehicles on road	510928.90N 0003802.50E	87 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGKH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGKH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
10	104.84°	1250 x 30 M	RWY surface: Grass	510926.79N 0003814.10E	THR 67.0 FT	
28	284.85°	1250 x 30 M	RWY surface: Grass	510918.54N 0003903.61E	THR 70.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 10
						RWY 28

EGKH AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
10	1150 M	1150 M	1190 M	1000 M	
28	1100 M	1100 M	1199 M	1000 M	

EGKH AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGKH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 510917.10N 0003841.90E Flashing Green. Beacon at centre of east end of the blister hangar.
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGKH AD 2.16 HELICOPTER LANDING AREA

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EGKH AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LASHENDEN/HEADCORN ATZ A circle, 2 NM radius, centred at 510923N 0003840E on longest notified runway (10/28)	Upper limit: 2000 FT AGL Lower limit: SFC	G	HEADCORN RADIO English	6000 FT		

EGKH AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	HEADCORN RADIO	122.210 A/G frequency. DOC 10 NM/2,000 FT.			0900-1900 (0800-1800) or SS, whichever is earlier, and by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGKH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	HLS	106Y 115.950 MHz	H24	510915.45N 0003902.15E	72 FT	On AD. Range 15 NM.

EGKH AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

Not applicable

2 GROUND MOVEMENT

a) All aircraft to contact Headcorn Radio before taxi.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Free-fall parachuting takes place up to FL 150 (ENR 5-5 refers). Parachute Drop Zone is 300 M northeast of Runway 28 threshold.
b) Taxiing to south of runway only. No marked taxiway and condition of manoeuvring area is poor. Pilots are cautioned to taxi with care at all times.
c) Runway designators are not provided.
d) Runway 03/21 is unlicensed, for details including dimensions/declared distances contact the aerodrome.
e) Hill 522 FT AMSL, 013.5°T, 3.7 NM from ARP.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGKH AD 2.21 NOISE ABATEMENT PROCEDURES

a) Aircraft are requested not to overfly the villages of Headcorn and Smarden.

EGKH AD 2.22 FLIGHT PROCEDURES

1 CIRCUIT HEIGHT AND DIRECTIONS

a) Aeroplanes: 1000 FT - LH; Helicopters: 700 FT, Runway 10 - LH; Runway 28 - RH.
b) Whilst parachuting is in progress:

i. No overhead joining, aeroplanes should join downwind of the runway-in-use;
ii. Aeroplanes are to avoid the Drop Zone and the area in the undershoot of Runway 28 whenever parachuting is in progress;
iii. Helicopters may not operate in the ATZ and should check with A/G Station that no parachuting is in progress before engaging rotors.

EGKH AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGKH AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGKH-2-1

EGKH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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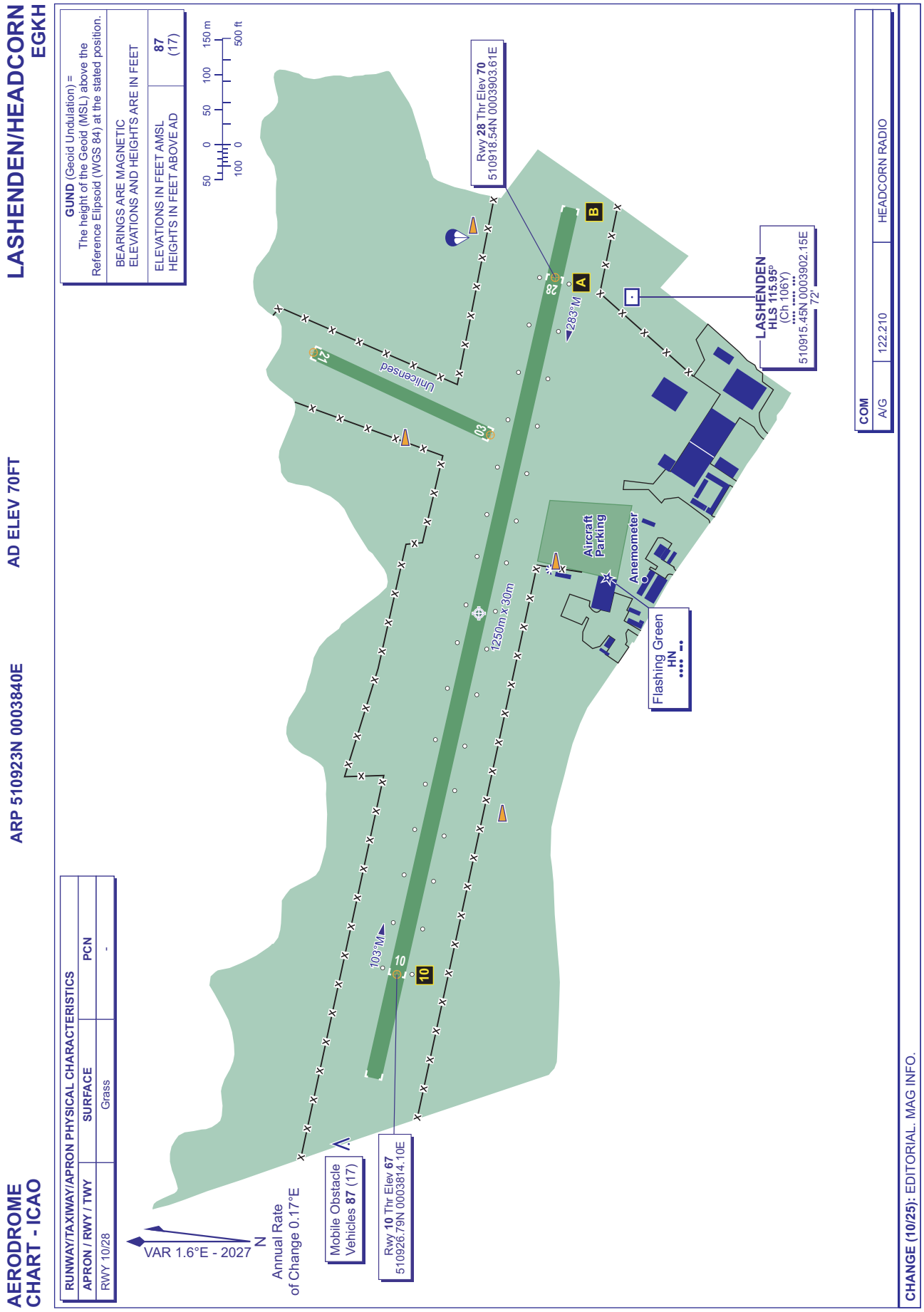
LASHENDEN/HEADCORN
EGKH
AERODROME CHART - ICAO
ARP 510923N 0003840E
AD ELEV 70FT
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
87 (17)
50 0 50 100 150 m
100 0 100 500 ft
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
PCN
RWY 10/28
Grass
-
Rwy 28 Thr Elev 70
510918.54N 0003903.61E
Rwy 10 Thr Elev 67
510926.79N 0003814.10E
LASHENDEN
HLS 115.95°
(Ch 106Y)
510915.45N 0003902.15E
72'
283°M
103°M
Unlicensed
21
03
28
10
A
B
1250m x 30m
Aircraft Parking
Anemometer
Flashing Green
HN
Mobile Obstacle Vehicles 87 (17)
VAR 1.6°E - 2027
N
Annual Rate of Change 0.17°E
COM
A/G
122.210
HEADCORN RADIO
CHANGE (10/25): EDITORIAL. MAG INFO.

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EGHF — LEE-ON-SOLENT

EGHF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHF — LEE-ON-SOLENT

EGHF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 504856N Long: 0011224W Midpoint of Runway 05/23.
2	Direction and distance from city	5.2 NM W of Portsmouth
3	Elevation / Reference temperature / Mean Low Temperature	33 FT / 21 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	0.22°E (2022) / 0.19°E
6	AD Administration Address Telephone E-mail address Web address	REGIONAL & CITY AIRPORTS LTD Control Tower (Top Floor), Solent Airport Daedalus, Lee-on-the-Solent, Hampshire, PO13 9FZ. 01329-824748 (Operations) 01329-824751 (Finance) ops@solentairport.co.uk finance@solentairport.co.uk www.solentairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGHF AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-SS (0800-1700).
2	Customs and immigration	By arrangement through Aerodrome Operations.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18.
8	Fuelling	By Airport Authority. See website for details.
9	Handling	As AD hours.
10	Security	
11	De-icing	
12	Remarks	PPR mandatory for visiting aircraft. Out of hours indemnity agreements required for movements after published hours.

EGHF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	Overground tanks located on Taxiway Echo. AVTUR JET A-1 tank 30,000 lt, mobile bowser 9,000 lt. AVGAS tank 20,000 lt, mobile bowser 2,000 lt.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited hangarage by prior arrangement.
6	Repair facilities for visiting aircraft	Third party maintenance companies. See website for details.
7	Remarks	Mandatory handling as specified in fees and charges on website.

EGHF AD 2.5 PASSENGER FACILITIES

1	Hotels	Various in the vicinity of the aerodrome.
2	Restaurants	Cafe @zero5 located at the control tower.
3	Transportation	Taxis available on request.
4	Medical facilities	Airport Authority first aiders.
5	Bank and Post Office	Nearest in town.
6	Tourist Office	
7	Remarks	Corporate lounge with WIFI.

EGHF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission.
2	Rescue equipment	1 x TACR 3, 700 L water, 42 L foam ICAO-C 3%. 1 x Steyr Puch Super G,700 L water, 35 L foam ICAO-C 3%.
3	Capability for removal of disabled aircraft	In the event of an aircraft incident, light aircraft can usually be removed using aerodrome authority resources. Large aircraft shall be removed using outside contractors in conjunction with aerodrome staff.
4	Remarks	

EGHF AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGHF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt PCN 11/F/B/Y/U
2	Taxiway width, surface and strength	Taxiway A: 12 M Surface: Asphalt PCN 11/F/B/Y/U Taxiway B: 12 M Surface: Asphalt PCN 11/F/B/Y/U Taxiway C: 12 M Surface: Asphalt PCN 11/F/B/Y/U Taxiway D: 12 M Surface: Asphalt PCN 11/F/B/Y/U Taxiway E: 12 M Surface: Asphalt PCN 11/F/B/Y/U Taxiway F: 40 M Surface: Asphalt PCN 9/F/C/Y/T
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGHF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Runway 05 designation, displaced threshold, centre-line. Runway 23 designation, centre-line, stopway. Runway light(s): 05/23: Runway edge, threshold, Stop-end, APAPI. Taxiway marking aid(s): Yellow centre-line, taxiway holding position. Taxiway light(s): Blue edge lights on taxiways Alpha, Echo and Foxtrot. Lit from runway to holding points A1, B1, B2, D1, E1 & F1.
3	Stop bars and runway guard lights (if any)	Runway guard lights at holding points.
4	Other runway protection measures	Illuminated runway hold signs at A1, D1, E1, F1.
5	Remarks	WDI: 504853.99N 0011214.79W (LGTD).

EGHF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHF2002) 23/APPROACH 05/ TAKE-OFF	ANTENNA	505133.28N 0010727.08W	417 FT	55 FT	No	
(EGHF3004) 23/APPROACH 05/ TAKE-OFF	TREE	504915.19N 0011157.71W	63 FT	31 FT	No	
(EGHF2833) 23/APPROACH 05/ TAKE-OFF	TREE SMALL	504914.08N 0011157.41W	42 FT	10 FT	No	
(EGHF3005) 23/APPROACH 05/ TAKE-OFF	TREE	504914.02N 0011153.69W	60 FT	28 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHF2001)	MONUMENT	505137.89N 0010802.82W	389 FT	95 FT	No	
(EGHF2026)	MAST	505132.11N 0010639.25W	471 FT	69 FT	No	
(EGHF2029)	STREETLIGHT	505124.34N 0010632.09W	469 FT	99 FT	No	
(EGHF2042)	RADAR	505124.08N 0010522.44W	490 FT	119 FT	No	
(EGHF2043)	PYLON	505118.88N 0010455.98W	460 FT	108 FT	No	
(EGHF2901)	RADAR	504850.74N 0011155.51W	108 FT	81 FT	Yes Red	
(EGHF2049)	SPINNAKER TOWER	504744.05N 0010630.46W	560 FT	549 FT	Yes Red	

EGHF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER

2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	Charts. Abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Available via Met Office Aviation Briefing Service Aviation Briefing Service - Guidance - Met Office or by other means.
8	Supplementary equipment available for providing information	Airport Website.
9	ATS units provided with information	LEE-ON-SOLENT
10	Additional information (limitation of service, etc.)	Observations provided locally/observations only disseminated locally.

EGHF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
05	045.22°	1176 x 30 M	RWY surface: Asphalt PCN 11/F/B/Y/T	504846.36N 0011239.90W 150.7 FT	THR 32.3 FT	
23	225.22°	1176 x 30 M	RWY surface: Asphalt PCN 11/F/B/Y/T	504909.75N 0011202.70W 150.7 FT	THR 31.1 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1319 x 86 M				RWY 05 Threshold displaced 150 M.
150 x 30 M		1319 x 86 M				RWY 23

EGHF AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	1176 M	1176 M	1176 M	1026 M	
23	1026 M	1026 M	1176 M	1026 M	

EGHF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	Simple Approach - T bar	Green Light intensity high With green wingbars	PAPI Left/3° 26 FT			Elev bi-directional 60 M spacing White Light intensity high	Red		
23	Simple Approach - T bar	Green Light intensity high With green wingbars	PAPI Left/3° 26 FT			Elev bi-directional 60 M spacing White Light intensity high	Red		

EGHF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 504849.97N 0011214.23W.
3	TWY edge and centre line lighting	EDGE: Blue edge lights on taxiways Alpha, Echo and Foxtrot.
4	Secondary power supply/switch-over time	
5	Remarks	Non-standard runway edge lights for SAR helicopter FATO. Solar powered remote controlled lighting for SAR use only.

EGHF AD 2.16 HELICOPTER LANDING AREA

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EGHF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LEE-ON-SOLENT ATZ 504810N 0010929W thence anti-clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 504824N 0010921W - 505049N 0011117W thence anti-clockwise by the arc of a circle radius 2 NM centred on 504857N 0011224W to 504810N 0010929W	Upper limit: 2000 FT AGL Lower limit: SFC	G	LEE INFORMATION English	3000 FT		

EGHF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	LEE INFORMATION	118.930 A/G frequency. DOC 10 NM/3,000 FT.			0900-SS (0800-1700).	ATZ hours coincident with AFIS hours.

EGHF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGHF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Solent Airport is PPR mandatory and all pilots are to ensure they have read the information provided on the Airport website www.solentairport.co.uk/pilot-information/ prior to arrival.
b) Pilots approaching Lee-on-Solent and intending to remain outside of Southampton CTR/Solent CTA are advised to maintain a listening watch only on Solent Radar 120.230 and select SSR code 7011 to reduce the risk of infringing adjacent controlled airspace.
c) Visiting traffic to Lee-on-Solent should be familiar with the layout and topography of the aerodrome (see aerodrome website).

2 GROUND MOVEMENT

a) The Control Tower is the location for all visitor parking.
b) The Coastguard dispersal is out of bounds and is not to be used by visiting aircraft.
c) Collection point for fees and charges is in the Visitor Reception.
d) Bravo Hold is only to be used for Code 2B Aircraft with a maximum wingtip clearance of 22 M or less, due to reduced wingtip clearances at the southern end of taxiway. Aircraft with a greater wingtip clearance requirement will need to backtrack the main runway.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Solent CTA approximately 3 NM west of aerodrome.
b) SAR and rotary daily H24 operations.
c) Model aircraft flying operates in the south-east of the aerodrome.
d) Fleetlands Heliport is located 1.9 NM to the north-east of Lee-on-Solent and has an active ATZ.
e) Possible compass error when using Runway 05 Bravo 2 Hold. Some aircraft may experience magnetic disturbances, affecting the Heading Reference System. Pilots should ensure that, pre-flight checks are conducted within the white box or at the hold point. When positioned for take-off from Runway 05 the aircraft heading reference is checked against the runway alignment. Aircrew noticing a compass anomaly should notify ATC as soon as possible.
f) Helicopter training in a designated area takes place on the airport.

5 HELICOPTER OPERATIONS

a) SAR rotary operations take priority.
b) All non-SAR rotary operations may use same arrival, departure, circuit and ground procedures.
c) The rotary training area 'The Triangle' is situated on the southside grass adjacent to the Echo taxiway. Whilst grass runway operations are in progress all non-SAR rotary traffic conducting general handling or low energy manoeuvres are to remain within the confines of 'The Triangle' unless authorised by ATS.
d) Rotary traffic is permitted to land or depart from 'The Triangle'.
e) Visiting rotary aircraft may follow circuit, arrival and departure procedures and can expect to hover-taxi using the taxiways, where appropriate or as instructed by the ATSU, to the designated visitor areas of the aerodrome.
f) Based rotary operators may follow pre-agreed taxiing and routing procedures.

6 USE OF RUNWAYS

a) More than one runway may be in use at any one time.
b) Grass strip is inspected but not licensed and should only be used at pilot’s discretion.

c) All fixed wing aircraft should be aware of rotary traffic operating to the south of the main runway.
d) The Runways 05/23 and grass strip are operated as a single runway strip. No simultaneous parallel approaches or departures are permitted.

7 TRAINING

Not applicable

EGHF AD 2.21 NOISE ABATEMENT PROCEDURES

a) The circuit patterns are drawn to avoid noise sensitive areas (avoid overflying Stubbington and Hill Head (which are inside the circuit) and Fareham South-West (on the NW corner outside the circuit)).
b) When departing Runway 23, track the extended centre-line to avoid overflying housing near the threshold of Runway 05.
c) Arrivals from the north are to route through the Titchfield Gyratory and on to base leg avoiding all housing for Runway 23 or downwind for Runway 05.

EGHF AD 2.22 FLIGHT PROCEDURES

1 GENERAL

a) Standard circuits flown at 1000 FT AAL. Circuit direction Runway 23 right-hand / Runway 05 left-hand.
b) Warbird circuits flown at 1200 FT AAL. Warbird circuit direction Runway 23 left-hand / Runway 05 right-hand.
c) Rotary traffic may operate in the Helicopter Training Area (HTA) known as 'The Triangle'. All pilots should be aware of rotary traffic using the Helicopter Training Area to the south of Runway 05/23.
d) All aircraft operating within the circuit are required to select transponder conspicuity code 4306.

2 JOINING AND DEPARTURE PROCEDURES

a) Aircraft should remain outside of Fleetlands ATZ, unless in good two-way communication with Fleetlands Information (135.705).
b) Standard join from the north:

   i. Remain west and outside Fleetlands ATZ:
   ii. Downwind for Runway 05 or right base for Runway 23.
   iii. Straight-in-Approach or overhead joins for Runway 23 are subject to circuit traffic and AFISO workload. Pilots must call Fleetlands Information 135.705 for ATZ transit prior to Wickham VRP.

c) Standard join from the south, west and east. Aircraft arriving from the south, west and east are suggested to join via Spinnaker VRP, Calshot VRP or Cowes VRP. Be aware that Calshot VRP is located underneath Solent CTA 2 which extends from 2000 FT – 5500 FT AMSL and is just to south of the Southampton Airport CTR.

   i. Left base for Runway 05 or downwind for Runway 23.
   ii. Straight-in approaches and overhead joins are subject to circuit traffic and AFISO workload. Standard joins are preferred.

d) Aircraft inbound or departing Solent Airport are to select transponder conspicuity code 4306 prior to joining the visual circuit. As a guide, this should be done at any of the following locations: Calshot, Cowes, Spinnaker Tower or Wickham.
e) Allocation of this conspicuity squawk is for a radio service only does not constitute any radar service.

EGHF AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGHF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHF-2-1

EGHF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 504856N 0011224W

AD ELEV 33FT

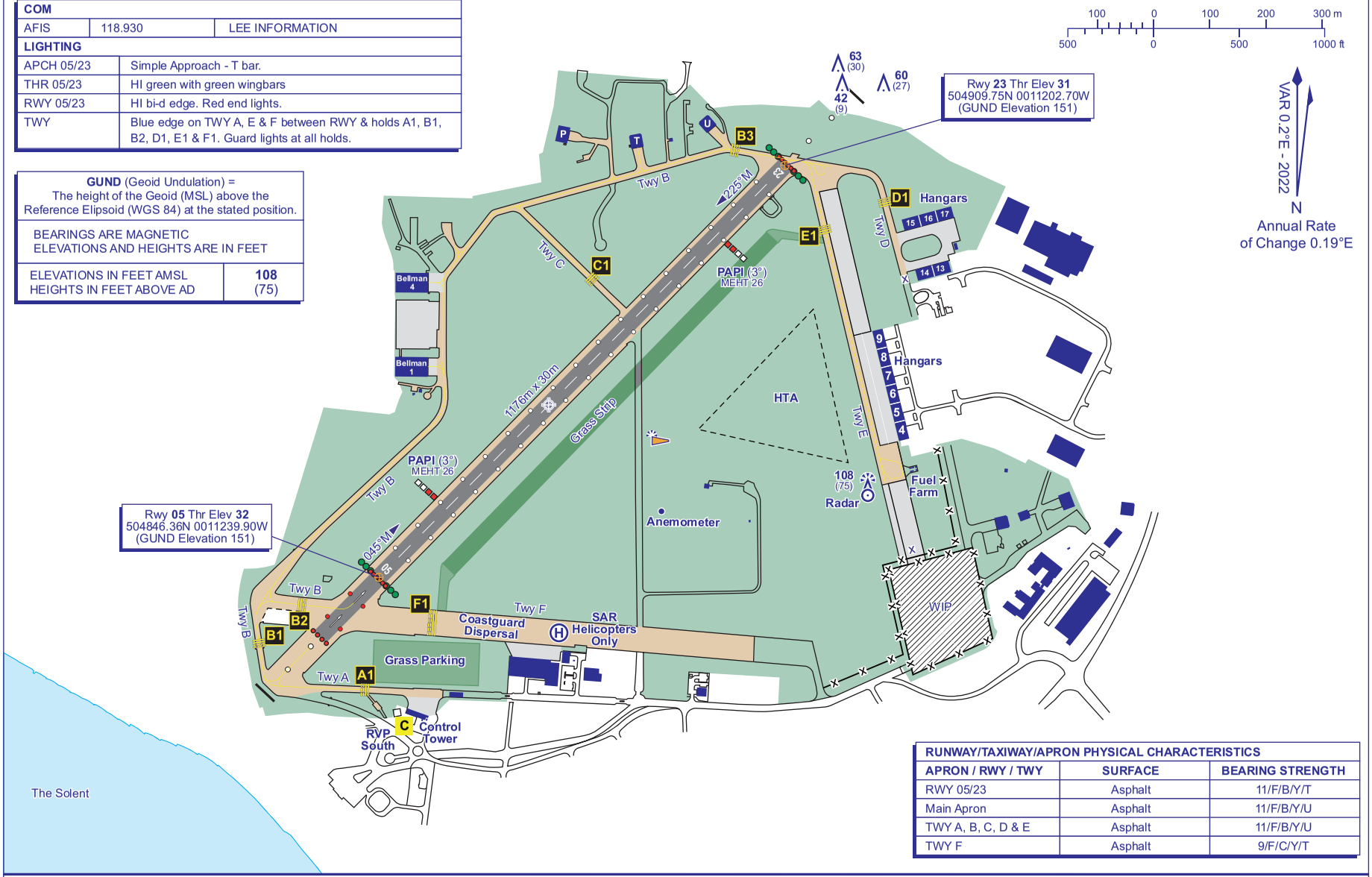
LEE-ON-SOLENT
EGHF

COM		
AFIS	118.930	LEE INFORMATION
LIGHTING		
APCH 05/23	Simple Approach - T bar.	
THR 05/23	HI green with green wingbars	
RWY 05/23	HI bi-d edge. Red end lights.	
TWY	Blue edge on TWY A, E & F between RWY & holds A1, B1, B2, D1, E1 & F1. Guard lights at all holds.	

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	108
HEIGHTS IN FEET ABOVE AD	(75)



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 05/23	Asphalt	11/F/B/Y/T
Main Apron	Asphalt	11/F/B/Y/U
TWY A, B, C, D & E	Asphalt	11/F/B/Y/U
TWY F	Asphalt	9/F/C/Y/T

CHANGE (7/25): STARTER EXT REMOVED. D.THR 05 ADDED. RWY DIMENSION. WINDSLEEVE. HOLD B2. APCH & RWY LIGHTING. OBSTACLES. WIP AREA. SOUTH EAST APRON AREA DISUSED. EDITORIAL.

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EGNM — LEEDS BRADFORD

EGNM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNM — LEEDS BRADFORD

EGNM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 535158N Long: 0013939W Mid point of Runway 14/32.
2	Direction and distance from city	6 NM NW of Leeds.
3	Elevation / Reference temperature / Mean Low Temperature	682 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	163 FT
5	Magnetic Variation / Annual Change	0.26°W (2022) / 0.21°E
6	AD Administration Address Telephone Telefax E-mail address	LEEDS BRADFORD AIRPORT LIMITED. Leeds Bradford Airport, Leeds, LS19 7TU. 0113-391 3285 (Administration) 0113-391 3282 (ATC) 0113-391 3231 (Airside Operations Unit) 0113-250 5426 (Administration) 0113-391 0870 (ATC) airside.operations@lba.co.uk (Airside Operations Unit) atc@lba.co.uk (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGNM AD 2.3 OPERATIONAL HOURS

1	AD Administration	0700-2300 (0600-2200). PPR outside of these hours.
2	Customs and immigration	Hours are aligned with Airline operations. GA and BA operators requiring Customs and Immigration contact handling agent.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24. See also AD 2.18.
8	Fuelling	AVGAS 100LL: 0700-1800 (0600-1700). Out of hours AVGAS 100LL available by arrangement with Mutliflight Ltd, subject to call out charges. (See also AD 2.4). AVTUR Jet A-1: 0500-2359 (0400-2259) PPR outside of these hours.
9	Handling	Available by arrangement with handling agents.
10	Security	H24. Terminal Passenger Screening 0300-2200 (0200-2100).
11	De-icing	Available by arrangement with handling agent.
12	Remarks	

EGNM AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement. Nearest railway siding: Bradford Valley.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL 80, 100, Shell 555, Exon 2380, Mobil Jet 254, Mobile Jet 2 plus various hydraulic fluids.
3	Fuelling facilities/capacity	AVTUR JET A-1 Main Apron: 1,000,000 L. Bowsers: 5 x 44,000 L, 2 x 33,000 L, AVGAS 100LL available at Multiflight Apron. De-fuelling facility not available.
4	De-icing facilities	Available by arrangement with handling agents. Type ECO 26 Type 2.
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	Full up to 13,000 lbs AUW, minor above, 24 hour service if necessary.

7	Remarks	Handling is mandatory. All aircraft, including those for engineering maintenance, are required to make suitable handling arrangements prior to arrival. Handling agents are: Swissport: Tel: 0113-250 3251. Frequency: 131.500 MHz. Southside: Multiflight: Tel: 0113-238 7140/7118. Frequency: 131.685 MHz. GA and Business Aviation handling provided on the Southside by Multiflight Ltd and on the Northside by Swissport. AVGAS 100LL is available from Multiflight Ltd. AVGAS refuelling facilities for helicopters by special prior notified arrangement with Multiflight Ltd.

EGNM AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the vicinity
2	Restaurants	Restaurant, buffet and bar.
3	Transportation	Buses, coaches and taxis. Nearest railway station: Horsforth
4	Medical facilities	Limited first aid.
5	Bank and Post Office	Bureau de Change.
6	Tourist Office	
7	Remarks	

EGNM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Categories 8 and 9 by arrangement, PPR 24 HR notice.
2	Rescue equipment	1x Rosenbauer Panther (12500 L Water, 1500 L Foam), 2x Rosenbauer Panther HRET (11200 L Water, 1500 L Foam), 1x Carmichael Cobra (12000 L Water, 1680 L Foam), 1x Ford Ranger 4x4 Incident Command Vehicle.
3	Capability for removal of disabled aircraft	Basic equipment onsite. Equipment for heavier aircraft could be made available. Contact: 0113-391 3231 (Airside Operations Unit).
4	Remarks	

EGNM AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing. 2x Schmidt Compact Jet Sweeper, 2x Overaasen Compact Jet Sweeper, Daf + SB90, MAN + SB90, Massey Ferguson + large brush/plough, New Holland Tractor fitted with brush + de-icing unit, JCB Ramp Hog, Ramp Hog, LBA John Deere Tractor + brush/plough, McCormick Tractor fitted with Ramp Hog 6 M Blade, Schmidt ASP De-icer spray vehicle, Daf 75 De-icer Spray Vehicle, Rolba 400 Snow Blower, Rolba 1000 Snow Blower.
2	Clearance priorities	Standard. See AD 1.2.2. EGNM Snow Plan refers. Available on request.
3	Remarks	RWY 14/32 de-iced with GAC. Runway surface condition over each third of the runway reported using a runway condition report (RCR). The report will include a runway condition code (RWYCC) using numbers 0-6, the contaminant, coverage and depth, and a description of the contaminant. Braking action is not promulgated. Runway and Taxiway conducted by AFS/Airside Operations. Latest airfield conditions available, Tel: 0113-391 1698 (ATIS Telephone Broadcast) or Tel: 0113-391 3231 (Airside Operations).

EGNM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete PCN 61/R/A/W/T
2	Taxiway width, surface and strength	Taxiway A B-C: 38 M Surface: Concrete PCN 61/R/A/W/T Taxiway A C-D3: 45 M Surface: Concrete PCN 61/R/A/W/T Taxiway A D3-EAST END: 40 M Surface: Concrete PCN 61/R/A/W/T Taxiway A RWY-B: 38 M Surface: Concrete PCN 41/R/A/W/T Taxiway D: 23 M Surface: Concrete PCN 59/R/D/X/T Taxiway E: 23 M Surface: Concrete PCN 51/R/B/W/T Taxiway F: 13.5 M Surface: Asphalt PCN 32/F/A/W/U Taxiway G: 10.5 M Surface: Asphalt PCN 32/F/A/W/U Taxiway L: 23 M Surface: Concrete PCN 59/F/D/X/T Taxiway LINK B: 25 M Surface: Concrete PCN 41/R/A/W/T Taxiway LINK C: 35 M Surface: Concrete PCN 61/R/A/W/T Taxiway M: 23 M Surface: Asphalt PCN 32/F/A/W/T Taxiway N N3-N4: 23 M Surface: Concrete PCN 61/R/A/W/T Taxiway N RWY-N3: 23 M Surface: Asphalt PCN 32/F/A/W/T
3	Altimeter checkpoint location and elevation	Apron 662 FT (At Stand 1)
4	VOR checkpoints	
5	INS checkpoints	As stand coordinates, see AD 2-EGNM-2-2.
6	Remarks	Attitude and Heading Reference System (AHRS) alignment issues possible on Multiflight East Apron as a result of shielding from the hangars causing GPS signal tracking failure. If affected, recommended action is to relocate aircraft to a different position away from the hangar. Always contact ATC prior to start and taxi.

EGNM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1 to 21C are marked for nose-in guidance with marshaller. Stands 15 to 18R are MARS (Multi Access Ramp System) stands.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 14/32: Runway designation, runway centre-line, runway threshold, fixed distance and touchdown and zone markings. Runway side stripes. 32 Turning 'D' is not equipped with centre-line taxiway lights. Pilots to exercise caution when manoeuvring.
3	Stop bars and runway guard lights (if any)	Stop Bars located at Holding Points A1, B, C, D1, D2, D3, E1, E2, F1, L1, N1, N2 and N3. Stop Bars at Runway Holding Points (A1, B, D1, E1, E2, F1, L1, N1) are in operation H24.
4	Other runway protection measures	
5	Remarks	Taxiway Alpha restricted to aircraft of wingspan not exceeding 36 M. Taxiway November between November 3 and November 4 restricted to aircraft of wingspan not exceeding 41.5 M. Taxiway Delta restricted to aircraft of wingspan not exceeding 61 M. Taxiway Foxtrot south of the junction with Taxiway Golf is restricted to aircraft of wingspan not exceeding 18.5 M. Through traffic between Taxiways Foxtrot and Golf is restricted to aircraft of wingspan not exceeding 18.5 M. Taxiways Foxtrot and Mike not available at night. LGTD WDI - 535140.92N 0013921.61W, 535214.26N 0013955.54W.

EGNM AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNM1270) 14/APPROACH 32/ TAKE-OFF	TREE	535337.11N 0014151.09W	936 FT	22 FT	No	
(EGNM1183) 14/APPROACH 32/ TAKE-OFF	TREE	535336.63N 0014204.64W	932 FT	64 FT	No	
(EGNM1269) 14/APPROACH 32/ TAKE-OFF	BUILDING	535336.33N 0014149.36W	931 FT	11 FT	No	
(EGNM1190) 14/APPROACH 32/ TAKE-OFF	WALL	535336.26N 0014143.20W	914 FT	5 FT	No	
(EGNM4425) 14/APPROACH 32/ TAKE-OFF	TREE	535335.18N 0014151.82W	949 FT	33 FT	No	
(EGNM1266) 14/APPROACH 32/ TAKE-OFF	OBS BEACON	535334.51N 0014151.86W	935 FT	24 FT	No	
(EGNM1253) 32/TAKE-OFF	POLE	535330.51N 0014124.62W	874 FT	24 FT	No	Close-in Obstacle
(EGNM3920) 32/TAKE-OFF	TREE	535327.74N 0014118.12W	867 FT	28 FT	No	Close-in Obstacle
(EGNM3922) 32/TAKE-OFF	TREE	535327.46N 0014118.21W	862 FT	26 FT	No	Close-in Obstacle
(EGNM3924) 32/TAKE-OFF	TREE	535327.24N 0014118.28W	863 FT	30 FT	No	Close-in Obstacle
(EGNM4434) 14/APPROACH 32/ TAKE-OFF	UTILITY POLE	535326.88N 0014201.45W	884 FT	48 FT	No	
(EGNM3926) 32/TAKE-OFF	TREE	535326.61N 0014118.32W	862 FT	35 FT	No	Close-in Obstacle
(EGNM4762) 14/APPROACH 32/ TAKE-OFF	UTILITY POLE	535326.44N 0014150.35W	888 FT	49 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNM4421) 14/APPROACH 32/ TAKE-OFF	UTILITY POLE	535326.18N 0014139.90W	877 FT	55 FT	No	
(EGNM4420) 14/APPROACH 32/ TAKE-OFF	UTILITY POLE	535325.98N 0014133.45W	870 FT	47 FT	No	
(EGNM4419) 32/TAKE-OFF	UTILITY POLE	535325.70N 0014124.86W	866 FT	52 FT	No	Close-in Obstacle
(EGNM4758) 32/TAKE-OFF	UTILITY POLE	535325.41N 0014115.03W	861 FT	42 FT	No	Close-in Obstacle
(EGNM3936) 14/APPROACH 32/ TAKE-OFF	TREE	535323.48N 0014126.39W	852 FT	48 FT	No	
(EGNM1350) 32/TAKE-OFF	POLE	535322.63N 0014202.23W	851 FT	35 FT	No	
(EGNM3963) 32/TAKE-OFF	TREE	535321.50N 0014154.76W	842 FT	30 FT	No	
(EGNM3932) 32/TAKE-OFF	TREE	535311.34N 0014056.87W	822 FT	51 FT	No	Close-in Obstacle
(EGNM2410) 32/TAKE-OFF	TREE	535304.04N 0014050.78W	797 FT	67 FT	No	Close-in Obstacle
(EGNM3315) 32/TAKE-OFF	TREE	535255.24N 0014039.75W	775 FT	62 FT	No	Close-in Obstacle
(EGNM3311) 32/TAKE-OFF	TREE	535254.71N 0014040.58W	771 FT	61 FT	No	Close-in Obstacle
(EGNM3314) 32/TAKE-OFF	TREE	535254.40N 0014040.43W	761 FT	52 FT	No	Close-in Obstacle
(EGNM2240) 32/TAKE-OFF	TREE	535239.98N 0014026.42W	720 FT	56 FT	No	Close-in Obstacle
(EGNM3322) 32/TAKE-OFF	TREE	535236.44N 0014023.82W	713 FT	50 FT	No	Close-in Obstacle
(EGNM4587) 32/TAKE-OFF	TREE	535236.18N 0014025.18W	722 FT	62 FT	No	Close-in Obstacle
(EGNM3309) 32/TAKE-OFF	TREE	535236.14N 0014024.98W	721 FT	61 FT	No	Close-in Obstacle
(EGNM3308) 32/TAKE-OFF	TREE	535236.06N 0014025.31W	720 FT	62 FT	No	Close-in Obstacle
(EGNM4840) 32/TAKE-OFF	TREE	535227.10N 0014033.40W	703 FT	20 FT	No	Close-in Obstacle
(EGNM4839) 32/TAKE-OFF	TREE	535227.03N 0014033.70W	703 FT	17 FT	No	Close-in Obstacle
(EGNM2201) 32/TAKE-OFF	POLE	535226.78N 0014035.58W	715 FT	24 FT	No	Close-in Obstacle
(EGNM2200) 32/TAKE-OFF	POLE	535226.63N 0014038.59W	720 FT	23 FT	No	Close-in Obstacle
(EGNM4836) 32/TAKE-OFF	TREE	535226.57N 0014035.27W	714 FT	20 FT	No	Close-in Obstacle
(EGNM4838) 32/TAKE-OFF	TREE	535226.57N 0014033.73W	709 FT	20 FT	No	Close-in Obstacle
(EGNM4837) 32/TAKE-OFF	TREE	535226.31N 0014032.13W	708 FT	21 FT	No	Close-in Obstacle
(EGNM4835) 32/TAKE-OFF	TREE	535226.19N 0014031.88W	710 FT	23 FT	No	Close-in Obstacle
(EGNM4834) 32/TAKE-OFF	TREE	535225.93N 0014031.22W	716 FT	27 FT	No	Close-in Obstacle
(EGNM4833) 32/TAKE-OFF	TREE	535225.77N 0014031.41W	713 FT	22 FT	No	Close-in Obstacle
(EGNM4517) 32/TAKE-OFF	BUSH	535225.67N 0014029.62W	702 FT	16 FT	No	Close-in Obstacle
(EGNM4831) 32/TAKE-OFF	TREE	535225.60N 0014031.55W	716 FT	23 FT	No	Close-in Obstacle
(EGNM4830) 32/TAKE-OFF	TREE	535225.40N 0014031.74W	715 FT	21 FT	No	Close-in Obstacle
(EGNM4515) 32/TAKE-OFF	BUSH	535225.34N 0014028.67W	703 FT	18 FT	No	Close-in Obstacle

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNM4828) 32/TAKE-OFF	TREE	535225.08N 0014031.98W	717 FT	21 FT	No	Close-in Obstacle
(EGNM4826) 32/TAKE-OFF	TREE	535224.80N 0014032.16W	713 FT	15 FT	No	Close-in Obstacle
(EGNM4825) 32/TAKE-OFF	TREE	535224.71N 0014032.37W	718 FT	19 FT	No	Close-in Obstacle

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNM4417)	MAST LC	535731.49N 0014044.23W	1238 FT	301 FT	No	
(EGNM1292)	COMMS MAST	535556.23N 0014159.50W	885 FT	186 FT	No	
(EGNM1900)	MAST	535411.88N 0015041.31W	1335 FT	61 FT	No	
(EGNM4081)	TREE	535337.30N 0013932.25W	877 FT	88 FT	No	
(EGNM4769)	UTILITY POLE	535332.21N 0014049.41W	868 FT	43 FT	No	
(EGNM1250)	AERIAL	535330.76N 0014119.86W	894 FT	37 FT	No	
(EGNM1343)	POLE	535330.44N 0014153.97W	896 FT	30 FT	No	
(EGNM3430)	TREE	535329.12N 0014102.27W	917 FT	66 FT	No	
(EGNM1885)	TREE	535326.02N 0013911.34W	846 FT	73 FT	No	
(EGNM3451)	TREE	535319.24N 0014021.75W	874 FT	57 FT	No	
(EGNM3267)	TREE	535316.95N 0014148.77W	812 FT	32 FT	No	
(EGNM4055)	TREE	535315.71N 0013945.76W	834 FT	68 FT	No	
(EGNM4106)	WIND TURBINE	535314.30N 0014214.05W	836 FT	59 FT	No	
(EGNM1052)	COMMS MAST	535116.97N 0013643.07W	831 FT	184 FT	No	

EGNM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	LEEDS BRADFORD
10	Additional information (limitation of service, etc.)	Broadcast on ATIS

EGNM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
14	137.73°	2250 x 46 M	RWY surface: Concrete, Grooved PCN 51/R/B/W/T	535217.15N 0014008.68W 163.2 FT	THR 674.2 FT TDZ 674.2 FT	RWY 14 0.36% (1:277) Down RWY 32 0.36% (1:277) Up
32	317.75°	2250 x 46 M	RWY surface: Concrete, Grooved PCN 51/R/B/W/T	535137.31N 0013907.44W 163.2 FT	THR 662.5 FT TDZ 668.0 FT	RWY 14 0.36% (1:277) Down RWY 32 0.36% (1:277) Up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	1057 x 150 M	2314 x 280 M				RWY 14 Threshold displaced by 312 M. Pilots should note that when using Runway 14, there is a 100 M area of the runway that provides a forward sight distance of less than 1200 M (for an eye height of 3 M above the runway surface) between 1300 M and 1400 M after the start of the LDA located in the area of the 32 TDZ. Downslope gradient first 400 M of LDA on Runway 14 is - 0.83% OFZ: Yes.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	199 x 150 M	2314 x 280 M				RWY 32 Threshold displaced by 274 M. Pilots should note that when using Runway 32, there is a 100 M area of the runway that provides a forward sight distance of less than 1200 M (for an eye height of 3 M above the runway surface) between 220 M and 320 M after the start of the LDA located in the area of the 32 TDZ. OFZ: Yes.

EGNM AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
14	2113 M	3170 M	2113 M	1801 M	
32	2190 M	2389 M	2190 M	1916 M	
14	1933 M	2899 M	1933 M		Take-off from intersection with Holding Point E2
14	1801 M	2701 M	1801 M		Take-off from Runway 14 Threshold
14	1514 M	2271 M	1514 M		Take-off from intersection with Taxiway Alpha
14	1429 M	2143 M	1429 M		Take-off from intersection with Taxiway Foxtrot
14	1245 M	1868 M	1245 M		Take-off from intersection with Taxiway Mike
14	961 M	1441 M	961 M		Take-off from intersection with Taxiway Lima
32	1916 M	2115 M	1916 M		Take-off from Runway 32 Threshold
32	1629 M	1828 M	1629 M		Take-off from intersection with Taxiway Delta
32	1115 M	1314 M	1115 M		Take-off from intersection with Taxiway Lima

EGNM AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
14	Coded centre-line with five crossbars. 872 M Light intensity high	Green Light intensity high With HI wingbars	PAPI Right/ 3.5° 53 FT 331 M		Colour coded 15 M spacing Light intensity high	HI flush bi-directional edge with LI omni-directional component.	Red		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
32	Coded centre-line with five crossbars. Supplementary lighting inner 262 M. 815 M Light intensity high	Green Light intensity high With HI wingbars	PAPI Left/3° 58 FT 316 M PAPI: Aircraft following the 32 ILS Glidepath may experience a minor visual discrepancy, with the PAPI indicating above nominal glidepath. This discrepancy is within acceptable tolerances.	900 M	Colour coded 15 M spacing Light intensity high	HI flush bi-directional edge with LI omni-directional component.	Red		

EGNM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: (LGTD) 535205.93N 0014001.00W - (LGTD) 535146.70N 0013907.50W.
3	TWY edge and centre line lighting	CL: Yellow/green centre-line routing lights from Exits B, C, D3, E1-E2, Lima and 14 Loop. EDGE: HI edge lights Runway 32 turning D. Blue edge colour coded taxiway guidance via D3, B, C, E1, E2 and Lima exits.
4	Secondary power supply/switch-over time	Yes. Less than 1 second.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGNM AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Parts of the manoeuvring area can be used for take-off and landing as instructed by ATC (see AD 2.20 paragraph 5).

EGNM AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LEEDS BRADFORD CTR 535955N 0014027W - 535348N 0013100W - 534904N 0012703W thence clockwise by the arc of a circle radius 8 NM centred on 535157N 0013938W to 534359N 0013847W - 535312N 0015259W thence clockwise by the arc of a circle radius 8 NM centred on 535157N 0013938W to 535955N 0014027W	Upper limit: FL85 Lower limit: SFC	D	LEEDS APPROACH English	5000 FT		A Transition Altitude of 5000 FT is effective within the Leeds Bradford CTR/CTA during the notified hours of operation. To operate UAS above 400 FT AGL within this area, UAS operators a required to notify Leeds Bradford Airport ATC via email ATC@lba.co.uk at least 14 days before the date of each activity.
LEEDS BRADFORD ATZ A circle, 2.5 NM radius, centred at 535158N 0013939W on the midpoint of the longest notified runway (14/32)	Upper limit: 2000 FT AGL Lower limit: SFC	D	LEEDS APPROACH English	5000 FT		To operate UAS above 400 FT AGL within this area, UAS operators a required to notify Leeds Bradford Airport ATC via email ATC@lba.co.uk at least 14 days before the date of each activity.

EGNM AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	LEEDS APPROACH	134.580 DOC 40 NM/ 10,000 FT			H24	ATZ hours coincident with Approach hours. VDF 535158.41N 0013925.17W On AD.
TWR	LEEDS DELIVERY	121.805 DOC 5 NM/GND.			0600-2200 (0500-2100).	Departing aircraft are to make initial call to Leeds Delivery during hours of operation. VDF on 120.305 MHz 535158.41N 0013925.17W On AD.
	LEEDS TOWER	120.305 DOC 25 NM/4,000 FT.			H24	
RADAR	LEEDS DIRECTOR	125.380 DOC 40 NM/ 10,000 FT.			As directed by ATC.	VDF on 134.580 MHz 535158.41N 0013925.17W On AD.
	LEEDS RADAR	134.580 DOC 40 NM/ 10,000 FT.			H24	
ATIS	LEEDS INFORMATION	118.030 DOC 50 NM/ 20,000 FT.			H24	
OTHER	LEEDS FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.63°E (2027)	ILBF	110.900 MHz	HO	535129.15N 0013854.93W		(RWY 14)
ILS/GP	ILBF	330.800 MHz	HO	535208.89N 0014002.23W		3.5° ILS Ref Datum Hgt 46 FT.
ILS/LOC III 0.62°E (2027)	ILF	110.900 MHz	HO	535228.00N 0014025.37W		(RWY 32)
ILS/GP	ILF	330.800 MHz	HO	535146.82N 0013914.15W		3° ILS Ref Datum Hgt 50 FT.
VOR/DME 0.93°E (2027) 0.3°E (2021)	GAM	75X 112.800 MHz	H24	531653.28N 0005649.79W	115 FT	RNAV Substitution Only. VOR DOC: 20 NM/25,000 FT (40 NM in Sector R300-180). DME DOC: 80 NM/25,000 FT.
DME	ILBF	46X 110.900 MHz	H24	535200.78N 0013931.47W	676 FT	(RWY 14) On AD. DME freq paired with ILS I-LF and I-LBF. Zero range is indicated at THR of Runway 14 and 32.
DME	ILF	46X 110.900 MHz	H24	535200.78N 0013931.47W	676 FT	(RWY 32) On AD. DME freq paired with ILS I-LF and I-LBF. Zero range is indicated at THR of Runway 14 and 32.
NDB (L) 0.63°E (2027)	LBA	402.500 kHz	H24 ENR Purpose: Winter: Mon-Fri 0700-2245 Sat, Sun 0700-2200 Summer: 0600-2200, 2200-0600 (PPR)	535153.97N 0013910.38W		APCH Aid to Leeds Bradford. On Leeds Bradford AD. Range 25 NM. ENR Purpose: 535154N 0013910W

EGNM AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Mandatory handling applies for all visiting non-based aircraft.
b) Aircraft using the aerodrome are to carry Third Party Insurance cover of not less than £2,000,000.
c) The aerodrome is not available to aircraft unable to communicate with ATC by radio, unless by special arrangement with Airport Authority for maintenance purposes.
d) Use governed by regulations applicable to Leeds CTR.
e) Pilots not filing a flight plan are to book out by telephone directly with ATC. Book out by radio will not be accepted.
f) All flights, except General Aviation below 5700 KG and Military flights, are subject to the prior approval of Leeds Bradford Airport Ltd. and prior notification to Airport Coordination Ltd. (ACL), who act as an agent for the airport. Requests for ad-hoc slot allocations should be made to ACL during working hours, Mon-Fri 0830-1700 (0730-1600) by e-mail: lonacxh@acl-uk.org; or Tel: +44 (0)161-493 1850, Fax: +44 (0)161-493 1853, or at all other times to Airfield Operations +44 (0)113-391 3231 or email: airside.safetyunit@lba.co.uk. OCS account holders can add, change and cancel slots using the online coordination portal at: www.online-coordination.com.
g) It is a requirement that every airline using Leeds Bradford Airport must have local orders compatible with LBA Emergency Orders. Airlines, General Aviation operators and Flying clubs should also note that it is their responsibility to recover disabled aircraft and aircraft wreckage and have appropriate arrangements in place before commencing flying operations into the aerodrome. LBA will act as the coordinating body throughout the recovery operation and has only very limited equipment which might be used to salvage disabled aircraft.
h) Visiting GA pilots must ensure that they are fully briefed on arrival, departure and taxi procedures prior to using the Aerodrome. ATZ entry may be refused, or flights can expect significant delays if unfamiliar with ATC procedures.

i) Non ACL slot allocated GA/BA movements can expect significant delays between 0600-0800 (0500-0700), March-October due to runway capacity.
j) High visibility clothing must be worn at all times on all aprons (including flight crew).
k) The main northside apron is designated under the Aviation and Maritime Security Act 1990. For security and safety reasons operators of all aircraft using the aerodrome are advised that the use of a handling agent is mandatory. All persons embarking or disembarking to/from aircraft must be escorted by their handling agent.

2 GROUND MOVEMENT

a) General

i. Aircraft are not permitted to enter allocated north side parking stand without marshaller guidance. If no marshaller is present, pilots must hold position and contact ATC.
ii. Marshalling mandatory on Multiflight East Apron.
iii. All aircraft using the north side stands, must be able to accept push-back. Aircraft, which cannot will be parked remotely, marshalled and will only be accepted if space permits (prior arrangement with Airside Operations required). Companies and handling agents are to ensure that the equipment necessary to provide push-back is available when required.
iv. Supplementary (Multi Access Ramp System) parking arrangements for aircraft with wingspans of 30 M or less may be initiated at any time, ATC will advise. Aircraft will be marshalled under these conditions.
v. In-to-wind parking is available in accordance with procedures published in the LBA Aerodrome Manual (prior arrangement with Airside Operations required).
vi. To assist with planning, aircraft must advise ATC as soon as possible if it becomes apparent that they will not be ready for departure upon reaching the holding points. Pilots must inform ATC prior to entering the runway if they are aware that they will not be ready for departure on line up.
vii. Aircraft able to use intersections for departure (particularly D1 for Runway 32 or A1 for Runway 14) should inform ATC when requesting push back or start up.
viii. Minimum thrust should be used for breakaway and taxi on all taxiways, in particular when turning (towards the Runway) through Holding Points B, C, D3 and N4.

b) Clearance Delivery and Start Up Procedures

i. ATC Clearance should be requested before start up but not before EOBT – 15 minutes. Pilots must advise stand number, or position, together with the ATIS letter received and QNH on first contact.
ii. Leeds Delivery is responsible for passing ATC clearance to aircraft prior to start-up only.
iii. Start up and push-back clearance is given by Leeds Bradford Tower only. Aircraft requiring a cross-bleed start must advise Leeds Delivery on first contact.
iv. Start up should not be requested until the aircraft is fully ready for start and or pushback with a tug attached.
v. Aircraft able to use intersections for departure (particularly D1 for Runway 32 or A1 for Runway 14) should inform ATC when requesting push back or start up.

c) Pushback Procedures

i. Aircraft requesting push-back must be in direct communication with the tug crew, via a headset person. Aircraft must inform ATC if they have no direct communication with a headset person (e.g. Hand signals only).
ii. Pushback instructions will normally include a direction to face as east, west, south OR to a Tug Release Point (TRP). See Aerodrome Chart AD 2.EGNM-2-1 for TRP positions.
iii. Pushback and start instructions may contain reference to an adjacent stand or defined point on a taxiway. The term long push may also be used together with a location definition.
iv. Where two aircraft up to B737/A321 size request simultaneous pushback, on the main apron stands 1-18, in the same direction at least one stand must separate the aircraft prior to push.

d) Remote Holding

i. Aircraft that have requested a ready message with ATC may request, or may be required to push and park subject CTOT.
ii. Requests to push and park are at the sole discretion of ATC and will not be facilitated during periods of high workload.
iii. All instructions to ‘push & park’ will be to an appropriate Tug Release Point (TRP) and flight crew must monitor the Tower frequency whilst remote holding.

e) Ground Manoeuvring Restrictions

i. The marked centre-line turning circle for wide-bodied aircraft using the Runway 32 turning pad may only be achieved using up to 52° of nose wheel steering. Additionally, there is no straight section of the centre-line parallel to runway centre-line before commencement of the 180° turn onto the runway centre-line.
ii. Pilots are reminded not to cross red stopbars unless a specific instruction to cross a lit stopbar is given by ATC.

f) Runway Backtrack Procedures

i. Backtracking should be as expeditious as possible, consistent with safety.

3 CAT II/III OPERATIONS

a) Runway 32 is suitable for Category II/IIIb operations by operators whose minima have been accepted by the Civil Aviation Authority.

b) During Category II/III operations special ATC procedures (Low Visibility Procedures (LVP's)) will be applied. Pilots will be informed when these procedures are in operation by RTF and ATIS automatic broadcasts.
c) Category II/III Holding Points are B, D1, F1, L1 and N1 only. Amber/Green coded taxiway centre-line guidance lights are switched on for route guidance. Aircraft on stands 7-18 will normally taxi through Holding Points C and D3. Pilots must request marshaller assistance, wingtip guidance or 'Follow Me' if it is considered necessary, prior to start up or after landing before entering the apron.
d) Arriving aircraft: after completing landing run await or request taxi clearance **prior** to vacating the runway or backtracking. Entry to Taxiway A will be via yellow/green centre-line routeing guidance through B, C or D3.
e) Aircraft will not report runway vacated until they have entered the taxiway and the aircraft is established on the fully green coded centreline lights. Pilots must not report vacated whilst they are on the portion of taxiway showing mixed amber/green lighting.
f) During day conditions taxiways F, M and G should not be used in a met visibility of less than 800 M unless the aprons and taxiways are visible from ATC at all times.

4 WARNINGS

a) Bird activity noted at this airport. Occasionally large flocks of Gulls transit across the aerodrome at dawn and dusk. Aircraft may be delayed whilst birds are cleared.
b) Pilots are advised to expect windshear and turbulence when the surface wind is between 190° and 280° above 20 KT. Some variations to reported wind readings may also occur.
c) Pilots are advised that paragliding operations take place at Tong within the Leeds Bradford Airport Control Zone, coordinates 534608.27N 0014117.14W, bearing 195° MAG, range 7 NM from Leeds Bradford Airport ARP. Paragliders transit to and from the site from the south west not above 1000 FT QNH. Pilots under VFR/SVFR are requested to avoid this area if possible. Traffic information will NOT be passed by ATC.
d) Pilots are advised that hang gliding and paragliding operations take place within the Leeds Bradford Airport Control Zone on Baildon Moor 535124.59N 0014711.58W bearing 264° MAG, range 4.5 NM from Leeds Bradford Airport ARP. Hang gliders and paragliders operate within a 1 NM radius of this site, non-radio not above 1500 FT QNH. Pilots under VFR/SVFR are requested to avoid this area if possible.
e) Pilots are advised that hang gliding and paragliding operations take place within the Leeds Bradford Airport Control Zone on Ilkley Moor 535444.01N 0014750.57W bearing 297° MAG, range 5.6 NM from Leeds Bradford Airport ARP. Hang gliders and paragliders operate within a 1 NM radius of this site, non-radio not above 1500 FT QNH. Pilots under VFR/SVFR are requested to avoid this area if possible.

5 HELICOPTER OPERATIONS

a) Arrival Procedures: ATC will allocate either a direct approach, or a circuit join based on the runway in use, dependant on the prevailing traffic conditions.
b) Direct Approach

i. Helicopters are to approach the aerodrome from the NE or SW remaining well clear of the approach and climb out to Runway 14/32.
ii. Helicopters will be requested to report approaching the aerodrome boundary to await further instructions.
iii. Direct arrivals from the NE are to obtain clearance to cross Runway 14/32 prior to crossing the aerodrome boundary and be prepared to hold, or orbit at the boundary if requested. When cleared to cross the runway helicopters are to arrange their flight to cross the runway as expeditiously as possible direct to the allocated Helicopter Aiming Point (HAP) avoiding overflying any parked or taxiing aircraft. Pilots wishing to use the runway at night or at any other time should make an early request to ATC.
iv. Direct arrivals from the SW are to report approaching the aerodrome boundary for onward clearance. When cleared to do so arrivals shall route direct to the allocated HAP ensuring that they remain well to the south of runway 32 at all times. The south side taxiway runway holding points may be used as a reference point as the point to remain south of when approaching the HAP from the south. If, due to the surface wind conditions it is required to cross runway 32 to enable a turn into wind for arrival this should be requested on first contact with the Leeds Tower Controller.

c) Circuit Based Approach

i. Under certain traffic conditions helicopters may be given a standard circuit join for the runway in use. On turning final the helicopter is to break directly for the allocated HAP prior to reaching the runway threshold.

d) Taxi Instructions

i. ATC will issue an instruction to air taxi from the HAP to the relevant parking apron.

e) Departure Procedures

i. Helicopters will be given clearance to lift from the apron and air taxi to the allocated HAP. When cleared for takeoff, South, or Westbound departures shall depart ensuring that they remain well to the south of Runway 32 at all times. If surface wind conditions dictate that a lift into wind requires a runway crossing this should be requested prior to taxi.
ii. Departures to the East or North shall, when cleared to do so cross the runway as expeditiously as possible on track the relevant VRP, ensuring that the departure track does not overfly parked or taxing aircraft.

6 USE OF RUNWAYS

a) Variable circuit direction in force.
b) In accordance with EU OPS Sub-part E the following approach operations are available to approved operators:

i. Runway 14 suitable for Lower than Standard Category I operations supported by an ILS Classification of II/D/2;
ii. Runway 32 suitable for Lower than Standard Category I operations supported by an ILS Classification of II/D/2;
iii. Runway 32 suitable for Other Than Standard Category II operations supported by an ILS Classification of II/D/2;
iv. Runway 14 suitable for EVS operations;

v. Runway 32 suitable for EVS operations.

7 TRAINING

a) Training flights must be booked in advance with ATC by telephone: 0113-391 3282. The filing of a flight plan does not constitute a booking to carry out training. Failure to make a booking may result in aircraft being refused use of the facilities. All training is subject to traffic and ATC capacity.
b) A slot booking system is used for training that involves instrument holding. Slots must be booked on the date of the requested slot with ATC by telephone. Operators may normally book a maximum of two slots in any one day. Further slots on the same day may not be booked until one hour before the requested slot.
c) Any changes to training requirements must be notified to ATC, in particular when slots are no longer required. Should traffic or ATC workload increase after bookings have been accepted, training may be refused or ended at short notice.
d) Training flights may only be permitted between 0700-2300 (0600-2200).
e) Any aircraft conducting practice instrument holding or approach procedures must have a serviceable transponder.
f) Training by aircraft greater than 5700 KG is not normally permitted on Sundays.
g) Training flights by jet aircraft shall be subject to the following conditions:

i. No jet training on Sundays, Good Friday or Christmas Day;
ii. Jet circuits shall be carried out at least 1500 FT AAL;
iii. Jet aircraft carrying out visual circuits shall climb straight ahead to 1000 FT AAL before turning. All other jet aircraft must follow the published NPRs.

h) Rebated fees for training flights are subject to prior written approval from the Airport Authority. Training rebates cannot be approved verbally, and will not be granted retrospectively.

8 AIRCRAFT NOISE RESTRICTIONS

a) Overview

For the purpose of this section:

i. ‘Night period’ and ‘night quota period’ means the period from 2300 (2200) hours to 0700 (0600) hours;
ii. ‘Noise classification' means the noise level band in EPNdB, for take-off or landing, as the case may be, for the aircraft in question;
iii. 'Quota' means the maximum permitted sum of the quota counts of all aircraft taking off from or landing at the aerodrome in question during any one season in the night quota period;
iv. 'Quota count (QC)' means the amount of the quota assigned to one take-off or to one landing by the aircraft in question, this number being related to its noise classification;
v. An aircraft is deemed to have taken off or landed during the night period if the time recorded by the appropriate air traffic control unit as 'airborne' or 'landed' respectively falls within that period.

b) Determining Quota Count (QC)

Aircraft taking off or landing at Leeds Bradford Airport are described in this section as follows:

i. Exempt aircraft; - see below note
ii. Aircraft having a quota count of 0;
iii. Aircraft having a quota count of 0.125;
iv. Aircraft having a quota count of 0.25;
v. Aircraft having a quota count of 0.5;
vi. Aircraft having a quota count of 1;
vii. Aircraft having a quota count of 2 or greater;

The QC is a system used to define the noise rating of an aircraft on departure/arrival. The QC is calculated by:

Departing QC = (EPNdB [Lateral] + (EPNdB [Flyover]) /2

Arriving QC = EPNdB [Approach] – 9

The quota count of an aircraft on taking off or landing is to be calculated on the basis of the noise classification for that aircraft on take-off or landing as appropriate as follows:

Departing QC Limits		
DB Lower Level	**DB Upper Level**	**QC**
0	80.99	0
81	83.99	0.125
84	86.99	0.25
87	89.99	0.5
90	92.99	1
93	95.99	2
96	N/A	>2

c) Prohibition on Take-off or Landing

Any aircraft which has a quota count of 1 or more may not take off during the night quota period except emergencies where there is an immediate danger to life or health, whether human or animal.

EGNM AD 2.21 NOISE ABATEMENT PROCEDURES

The following Noise Preferential Routeings and Procedures shall apply to jet aircraft (except military aircraft).

a) These procedures may at any time be departed from to the extent necessary for avoiding immediate danger.
b) Operators of aircraft using the airport shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
c) Aircraft will use Runway 14 for landing and Runway 32 for take-off, whenever this is possible, having regard to wind, cloud base, approach aid limitations and aircraft performance and requirements. In the event of marginal conditions the runway to be used is at the aircraft Commanders discretion. However, violation of the selective runway procedure cannot be acceptable for expedite reasons, and it is regretted that inconvenience in taxiing distances and/or airborne routeing must be accepted in the interest of reducing aircraft noise intrusion on the local environment
d) Departing Aircraft:

i. Runway 14 – After take-off maintain runway heading to 'I LBF' DME 2 before setting course (or 'I LF' DME 2 when Runway 32 is being used for landing traffic).
ii. Runway 32 – Climb straight ahead. At 1202 FT QNH (520 FT QFE) or I-LF D0.5, whichever is the later, turn left to track 311° MAG. At 'I LF' DME 2.1 *535340N 0014258W reduce to minimum safe power settings and turn left to make good a track of 272° MAG. Maintain this track until 'I LF' DME 3.5 *535405N 0014521W before setting course.
iii. Turbo-prop: After take-off make good a track of 311° MAG and at DME 2.1 turn onto course.

Note: *The above routeings are compatible with normal ATC practice. In individual cases they may be varied owing to operational circumstances. The use of the Noise Preferential Routeings specified above is supplementary to the noise abatement take-off techniques as used by piston engined, turbo-prop and turbo-jet aircraft.*

e) Target Noise levels

'By day' means 0700-2300 (0600-2200).

'By night' means 2300-0700 (2200-0600).

All aircraft (excluding military aircraft) shall be operated in such a way that at the relevant monitoring point they will not generate a noise level:

i. After take-off from Runway 32 more than 85 dB(A) by day or 77dB(A) by night;
ii. After take-off from Runway 14 more than 92 dB(A) by day or 84 dB(A) by night;
iii. On approach to Runway 32 more than 85 dB(A) by day or 79 dB(A) by night.

f) Night Restrictions

i. The airport company is subject to planning requirements imposed during the night time period 2300-0700 (2200-0600).
ii. Such aircraft movements are permitted only by approval from one of the following:

- Head of Airfield Operations — 0771-101 6610
- Airside Operations — 0113-391 3231

iii. Movements in the night time period by aircraft failing to meet the imposed conditions will only be permissible in the following circumstances:

1. Delayed landings up to 0100 (0000) by aircraft scheduled to land between 0700-2300 (0600-2200).
2. An emergency ie; A flight where there is an immediate danger to life or health, whether human or animal.

g) Unless otherwise instructed by ATC, aircraft using the ILS in IMC or in VMC shall not descend below 2000 FT before intercepting the glidepath, nor thereafter fly below the glidepath. An aircraft approaching without assistance from ILS or radar shall follow a descent path which will not result in its being at any time lower than the approach path which would be followed by an aircraft using the ILS glidepath.
h) To minimise disturbance in areas adjacent to the airport, Captains are requested to avoid/reduce the use of reverse thrust after landing, whenever possible consistent with safe operation of the aircraft.
i) Ground running of aircraft engines is not permitted between 2300-0700 (2200-0600) and is subject to ATC permission at all other times.
j) Fanstop Procedures

i. Simulated asymmetric 'go-arounds' for Runway 14 must be initiated at or above 300 FT (QFE);
ii. Simulated engine out manoeuvres from Runway 14 are not permitted on departure.

EGNM AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR OUTBOUND AIRCRAFT

a)

i. Aircraft are to expect a NELSA 3W SID for the following routes when Runway **32** is in use:

Northbound – N601 (NELSA), P18 (DCT - GASKO) – Expect first CPDLC Data Link Authority to be EGPX

Southbound – L612 (DCT - MCT - DCT - LISTO), N862 via P17 (DCT - BARTN), L8 via P18 (DCT - MCT - DCT - LISTO), M605 (DCT - POL) – Expect first CPDLC Data Link Authority to be EGTT

Westbound – Y70 (DCT - CROFT), L10 FL 85 - (DCT - CROFT - DCT - WAL) – Expect first CPDLC Data Link Authority to be EGPX

ii. Aircraft are to expect a POL 2X SID for the following routes when Runway **14** is in use:

Northbound – N601 (POL), P18 (POL) – Expect first CPDLC Data Link Authority to be EGPX

Southbound – L612 (DCT - MCT - DCT - LISTO), N862 via P17 (POL), L8 via P18 (DCT - MCT - DCT - LISTO), M605 (POL) – Expect first CPDLC Data Link Authority to be EGTT

Westbound – Y70 (POL), L10 FL 85 - (DCT - WAL) – Expect first CPDLC Data Link Authority to be EGPX
LAMIX and DOPEK SIDs – Expect first CPDLC Data Link Authority to be EGTT

Aircraft departing to aerodromes not connected to the above initial routes will receive individual tactical clearances.

b) Radio Failure Procedure

i. In the event of complete radio communication failure in an outbound aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1.3.

2 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Inbound Routes from Airways

Approach from	Via	Route
NW	L612 N57	CALDA - POL - LBA POL - LBA
N	P18	GASKO - LBA
E	Y70	GOLES - BATLI - LBA
S	N57/T420 N601	TNT - DENBY - LBA EMBOR - TNT - DENBY - LBA
SW	N864	REXAM - BARTN - POL - LBA
W	L10/L975	WAL - BARTN - POL - LBA

Aircraft likely to be issued tactical headings prior to transfer from Scottish Control to EGNM RAD.

b) Inbound Aircraft from other than the Airways System

i. Aircraft wishing to enter the Leeds Bradford Control Zone and/or Control Area direct from the London FIR are required to obtain permission at least 10 minutes before reaching the CTR or CTA Boundary, when they will be advised of the route to follow consistent with the current traffic situation.

3 RADIO COMMUNICATIONS FAILURE PROCEDURES

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1.3. The route to be used when leaving the Zone in accordance with this procedure is

Position at time of decision	Route
NDB(L)/LBA	Track 010°(T) from NDB(L) LBA at ALT 3000 FT until clear of CTR/CTA.

b) In the event of radio communications failure or no contact with Scottish Control by NELSA, if departing on a NELSA 3W SID or if departing on a POL 2X SID, immediately Squawk 7600, take up a right hand hold at either NELSA or Pole Hill at FL 070 for 3 minutes. Thereafter follow standard radio communications failure procedures in accordance with the UK AIP.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

5 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Leeds Bradford controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Leeds Radar frequency, 134.580 MHz, are encouraged to select SSR code 2677.

541152N 0014544W - 535800N 0022410W -
535240N 0021607W - 533650N 0015216W -
533210N 0014910W - 533433N 0012238W -
534146N 0011444W - 540551N 0013920W -
541152N 0014544W.

b) Selection of code 2677 does not imply receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of controlled airspace.
c) Whilst squawking 2677 pilots should be aware that Leeds Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 2677 shall be deselected.
e) Aircraft who intend to either transit Leeds CTR or route underneath any portion of the CTA, should still contact Leeds Radar on 134.580 MHz for a service and clearance if required.

EGNM AD 2.23 ADDITIONAL INFORMATION

INTENTIONALLY BLANK

EGNM AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNM-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGNM-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNM-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 14/32 NELSA 4W POL 2X - ICAO
AD 2.EGNM-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 14/32 DOPEK 3X 3W LAMIX 3X 3W (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGNM-6-2
INSTRUMENT APPROACH CHART ILS/DME Y RWY 14 (CAT A,B) - ICAO
AD 2.EGNM-8-1
INSTRUMENT APPROACH CHART ILS/DME Z RWY 14 (CAT C,D) - ICAO
AD 2.EGNM-8-2
INSTRUMENT APPROACH CHART LOC/DME Y RWY 14 (CAT A,B) - ICAO
AD 2.EGNM-8-3
INSTRUMENT APPROACH CHART LOC/DME Z RWY 14 (CAT C,D) - ICAO
AD 2.EGNM-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME Y RWY 14 (CAT A,B) - ICAO
AD 2.EGNM-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME Z RWY 14 (CAT C,D) - ICAO
AD 2.EGNM-8-6
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 32 - ICAO
AD 2.EGNM-8-7
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 32 - ICAO
AD 2.EGNM-8-8
INSTRUMENT APPROACH CHART NDB(L) DME RWY 32 - ICAO
AD 2.EGNM-8-9

EGNM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 535158N 0013939W

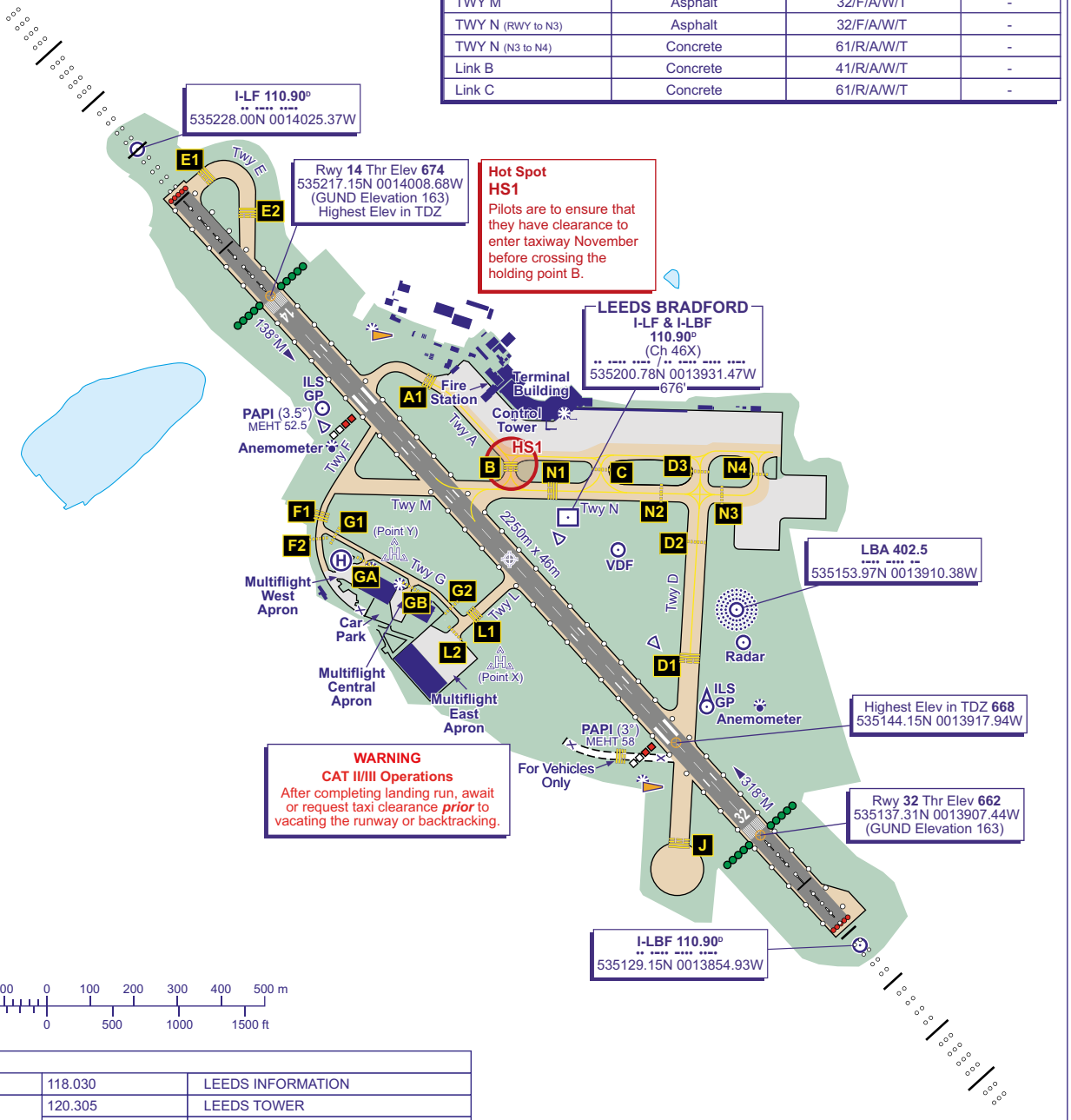
AD ELEV 682FT

LEEDS BRADFORD
EGNM

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL	682

VAR 0.3°W - 2022
N
Annual Rate of Change 0.21°E

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 14/32	Grooved Concrete	51/R/B/W/T	-
Main Apron	Concrete	61/R/A/W/T	662 ft amsl
TWY A (RWY to B)	Concrete	41/R/A/W/T	-
TWY A (B to eastern end)	Concrete	61/R/A/W/T	-
TWY D	Concrete	59/R/D/X/T	-
TWY E	Concrete	51/R/B/W/T	-
TWY F & G	Asphalt	32/F/A/W/U	-
TWY L	Concrete	59/F/D/X/T	-
TWY M	Asphalt	32/F/A/W/T	-
TWY N (RWY to N3)	Asphalt	32/F/A/W/T	-
TWY N (N3 to N4)	Concrete	61/R/A/W/T	-
Link B	Concrete	41/R/A/W/T	-
Link C	Concrete	61/R/A/W/T	-



COM		
ATIS	118.030	LEEDS INFORMATION
TWR	120.305	LEEDS TOWER
	121.805	LEEDS DELIVERY
	121.600	LEEDS FIRE

LIGHTING	
THR 14/32	HI green with HI W bars.
RWY 14/32	HI flush bi-d edge with LI omni-d component. HI colour coded C/L. End lights red. TDZ 900 m (RWY 32 only).
TWY	Stop Bars Holds A1, B, D1, D2, D3, E1, E2, F1, L1, N1, N2 & N3. Yellow/Green CL at exits B, C, D3, E1, E2, L & 14 Loop. Blue edge colour coded via D3, B, C, E1, E2 & L exits.

CHANGE (8/25): AD ELEV REVISED.

AERO INFO DATE 15 MAY 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 535158N 0013939W

AD ELEV 682FT

LEEDS BRADFORD
EGNM

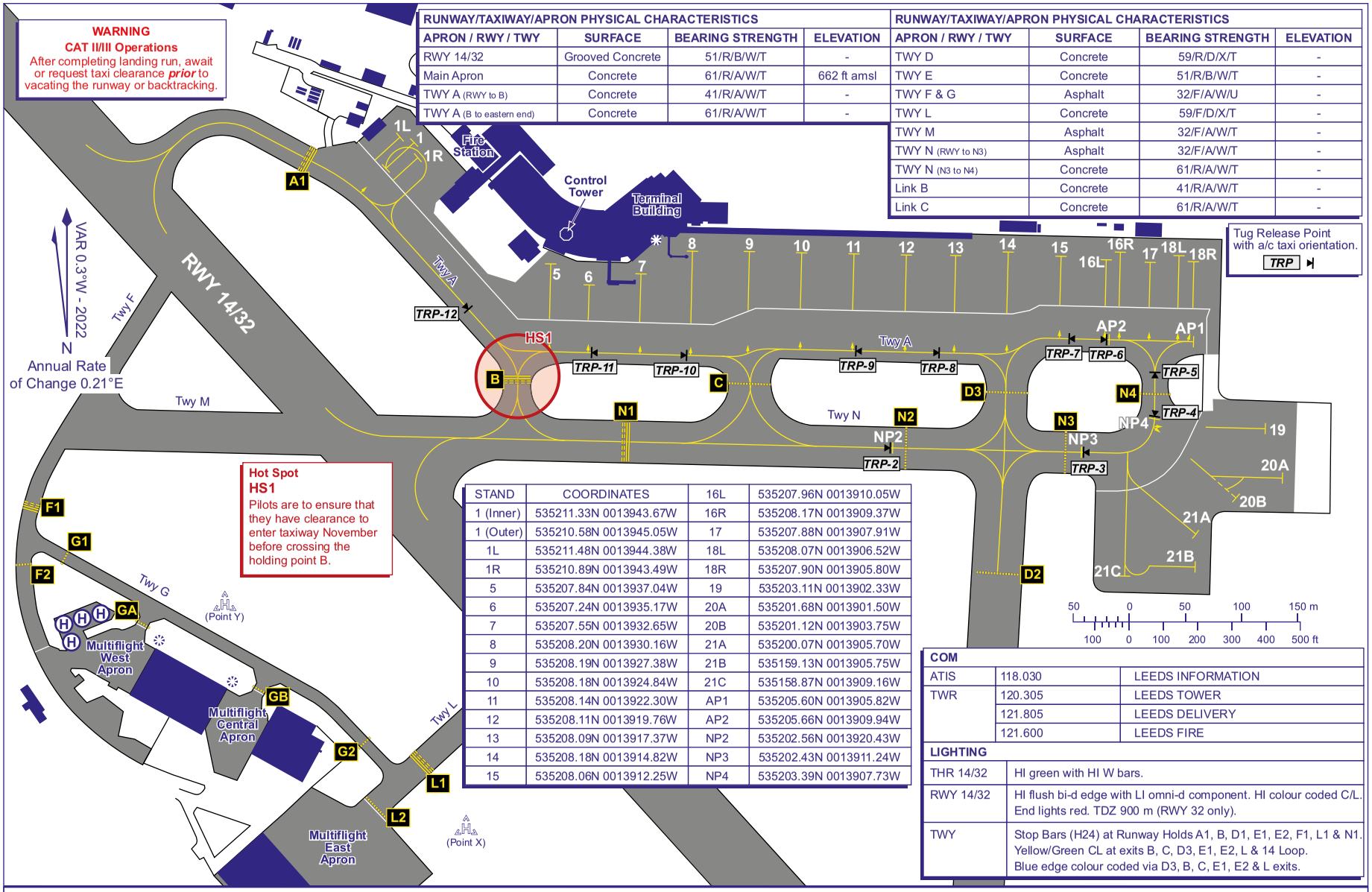
AERO INFO DATE 15 MAY 25

WARNING
CAT II/III Operations
After completing landing run, await or request taxi clearance ***prior*** to vacating the runway or backtracking.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 14/32	Grooved Concrete	51/R/B/W/T	-
Main Apron	Concrete	61/R/A/W/T	662 ft amsl
TWY A (RWY to B)	Concrete	41/R/A/W/T	-
TWY A (B to eastern end)	Concrete	61/R/A/W/T	-

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
TWY D	Concrete	59/R/D/X/T	-
TWY E	Concrete	51/R/B/W/T	-
TWY F & G	Asphalt	32/F/A/W/U	-
TWY L	Concrete	59/F/D/X/T	-
TWY M	Asphalt	32/F/A/W/T	-
TWY N (RWY to N3)	Asphalt	32/F/A/W/T	-
TWY N (N3 to N4)	Concrete	61/R/A/W/T	-
Link B	Concrete	41/R/A/W/T	-
Link C	Concrete	61/R/A/W/T	-

Tug Release Point with a/c taxi orientation.
TRP



Hot Spot
HS1
Pilots are to ensure that they have clearance to enter taxiway November before crossing the holding point B.

STAND	COORDINATES	16L	535207.96N 0013910.05W
1 (Inner)	535211.33N 0013943.67W	16R	535208.17N 0013909.37W
1 (Outer)	535210.58N 0013945.05W	17	535207.88N 0013907.91W
1L	535211.48N 0013944.38W	18L	535208.07N 0013906.52W
1R	535210.89N 0013943.49W	18R	535207.90N 0013905.80W
5	535207.84N 0013937.04W	19	535203.11N 0013902.33W
6	535207.24N 0013935.17W	20A	535201.68N 0013901.50W
7	535207.55N 0013932.65W	20B	535201.12N 0013903.75W
8	535208.20N 0013930.16W	21A	535200.07N 0013905.70W
9	535208.19N 0013927.38W	21B	535159.13N 0013905.75W
10	535208.18N 0013924.84W	21C	535158.87N 0013909.16W
11	535208.14N 0013922.30W	AP1	535205.60N 0013905.82W
12	535208.11N 0013919.76W	AP2	535205.66N 0013909.94W
13	535208.09N 0013917.37W	NP2	535202.56N 0013920.43W
14	535208.18N 0013914.82W	NP3	535202.43N 0013911.24W
15	535208.06N 0013912.25W	NP4	535203.39N 0013907.73W

COM		
ATIS	118.030	LEEDS INFORMATION
TWR	120.305	LEEDS TOWER
	121.805	LEEDS DELIVERY
	121.600	LEEDS FIRE

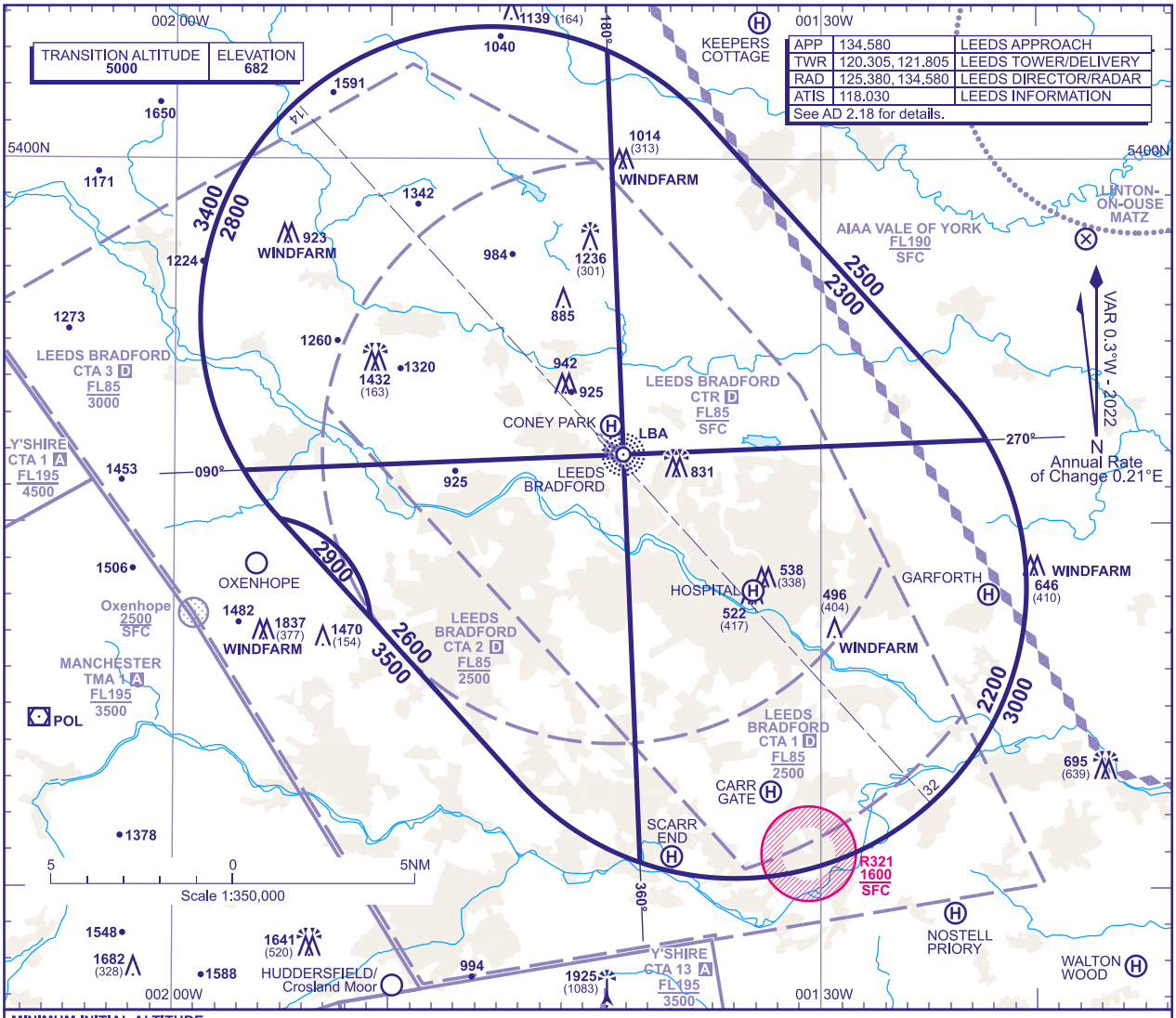
LIGHTING	
THR 14/32	HI green with HI W bars.
RWY 14/32	HI flush bi-d edge with LI omni-d component. HI colour coded C/L. End lights red. TDZ 900 m (RWY 32 only).
TWY	Stop Bars (H24) at Runway Holds A1, B, D1, E1, E2, F1, L1 & N1. Yellow/Green CL at exits B, C, D3, E1, E2, L & 14 Loop. Blue edge colour coded via D3, B, C, E1, E2 & L exits.

CHANGE (8/25): AD ELEV REVISED.

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1924
HEIGHTS IN FEET AGL (1084)

LEEDS BRADFORD



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2800** in the sector defined by the lateral limits; 535126N 0015650W thence clockwise by an arc of a circle radius 8NM centred on 535539N 0014519W to 540259N 0013958W - 535154N 0013910W - 535126N 0015650W.

b) **2300** in the sector defined by the lateral limits; 540259N 0013958W thence clockwise by an arc of a circle radius 8NM centred on 535539N 0014519W to 540101N 0013518W - 535337N 0012356W thence clockwise by an arc of a circle radius 8NM centred on 534815N 0013358W to 535218N 0012219W - 535154N 0013910W - 540259N 0013958W.

c) **2200** in the sector defined by the lateral limits; 535154N 0013910W - 535218N 0012219W thence clockwise by an arc of a circle radius 8NM centred on 534815N 0013358W to 534042N 0013822W - 535154N 0013910W.

d) **2600** in the sector defined by the lateral limits; 535126N 0015650W - 535154N 0013910W - 534042N 0013822W thence clockwise by an arc of a circle radius 8NM centred on 534815N 0013358W to 534253N 0014356W - 534724N 0015053W thence anticlockwise by an arc of a circle radius 3NM centred on 534709N 0015556W to 535007N 0015505W - 535016N 0015519W thence clockwise by an arc of a circle radius 8NM centred on 535539N 0014519W to 535126N 0015650W.

e) **2900** in the sector defined by the lateral limits; 535007N 0015505W thence clockwise by an arc of a circle radius 3NM centred on 534709N 0015556W to 534724N 0015053W - 535007N 0015505W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher to **NDB(L) LBA**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) LBA**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the **NDB LBA**.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (9/25): DONCASTER SHEFFIELD AIRSPACE REMOVED.

AERO INFO DATE 12 JUN 25

AD 2-EGNM-5-1

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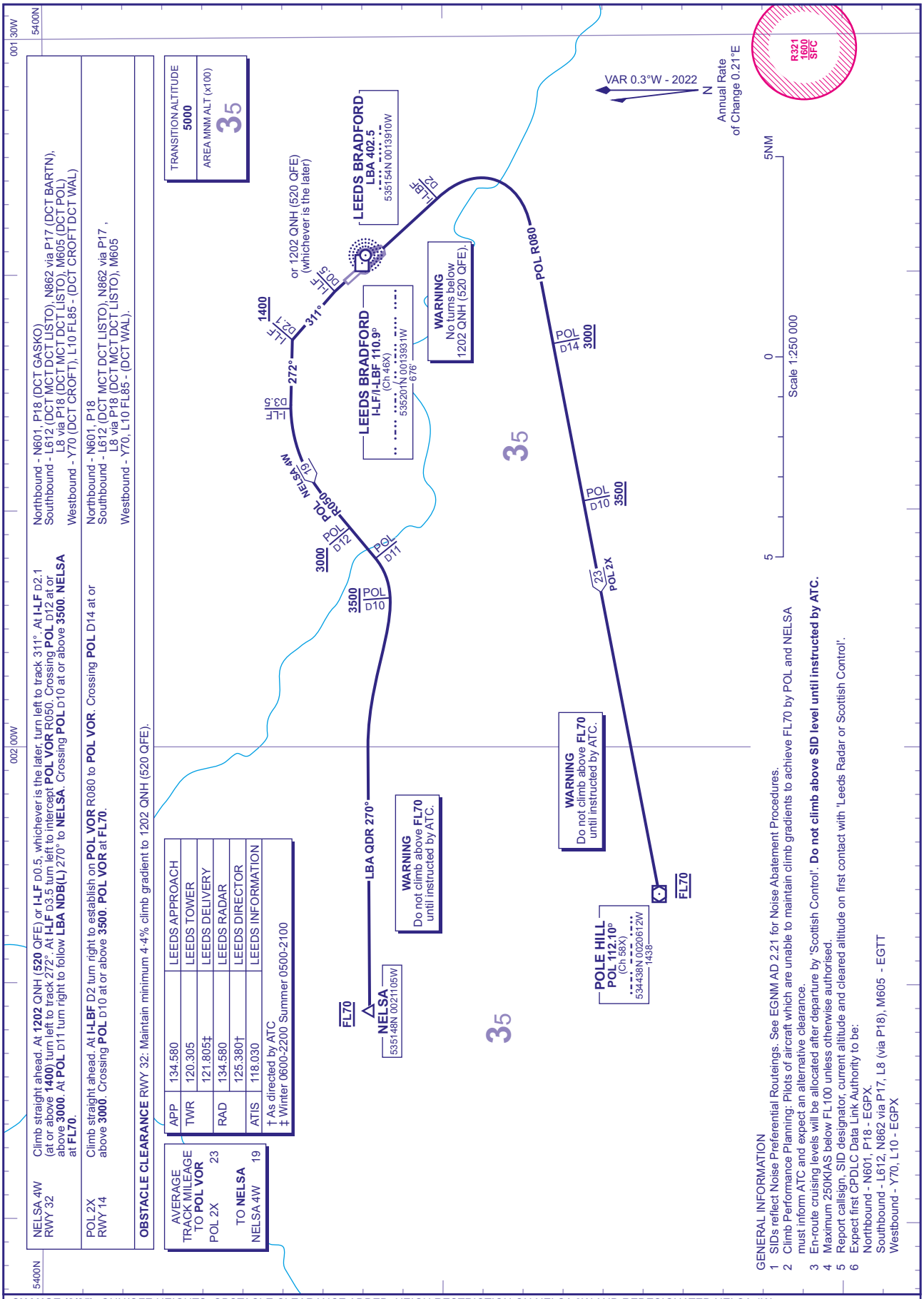
STANDARD DEPARTURE CHART INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LEEDS BRADFORD
RWY 14/32
NELSA 4W POL 2X



CHANGE (8/25): QNH/QFE HEIGHTS. OBSTACLE CLEARANCE ADDED. HEIGH RESTRICTION ON NELSA 3W AND REDESIGNATED NELSA 4W

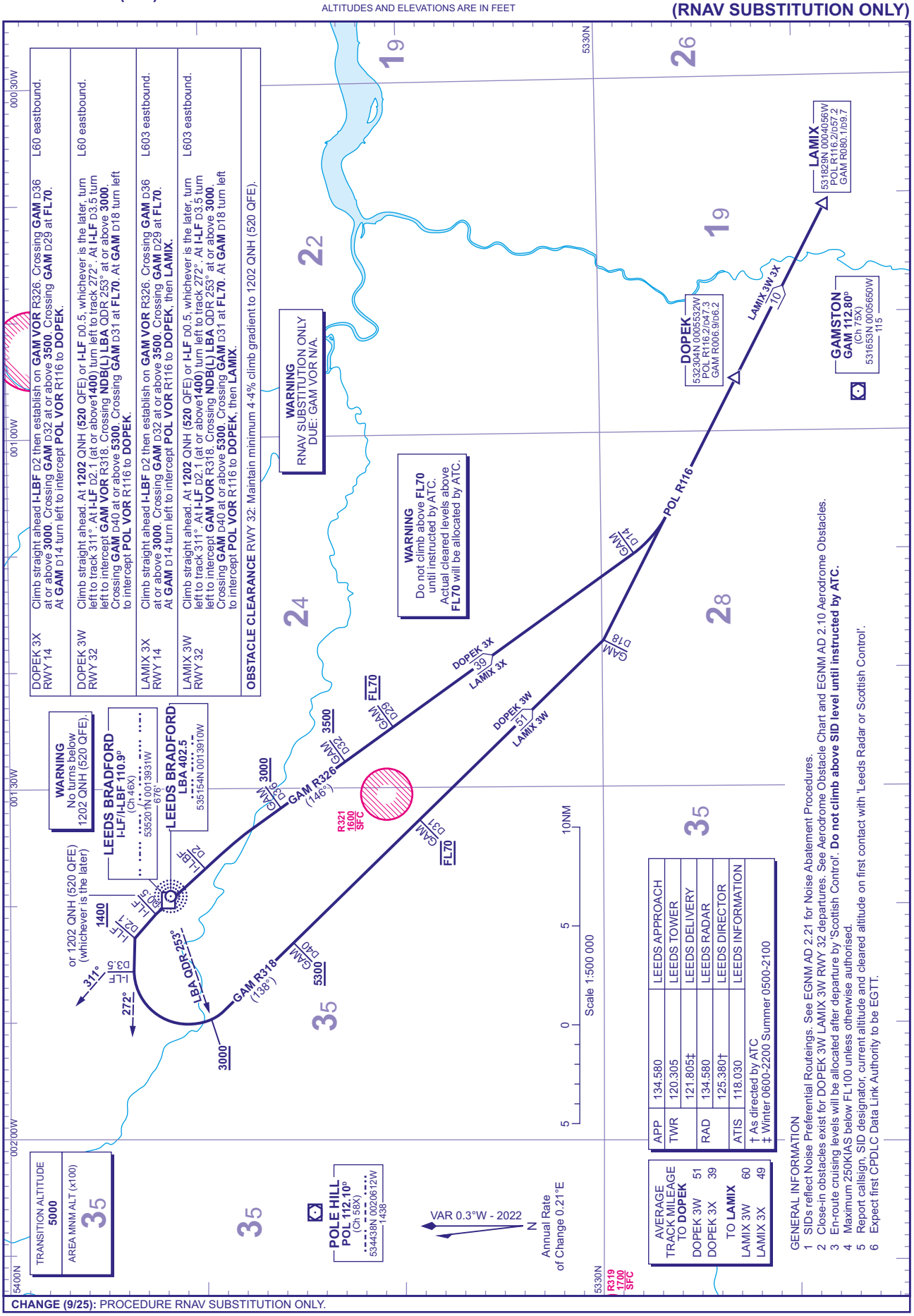
AERO INFO DATE 30 MAY 25

AD 2-EGNM-6-1

STANDARD DEPARTURE CHART INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LEEDS BRADFORD
RWY 14/32 **DOPEK 3X 3W LAMIX 3X 3W**
(RNAV SUBSTITUTION ONLY)



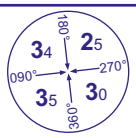
CHANGE (9/25): PROCEDURE RNAV SUBSTITUTION ONLY.

AERO INFO DATE 09 JUN 25

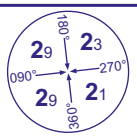
AD 2-EGNM-6-2

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
ILS/DME Y
RWY 14
(ACFT CAT A,B)

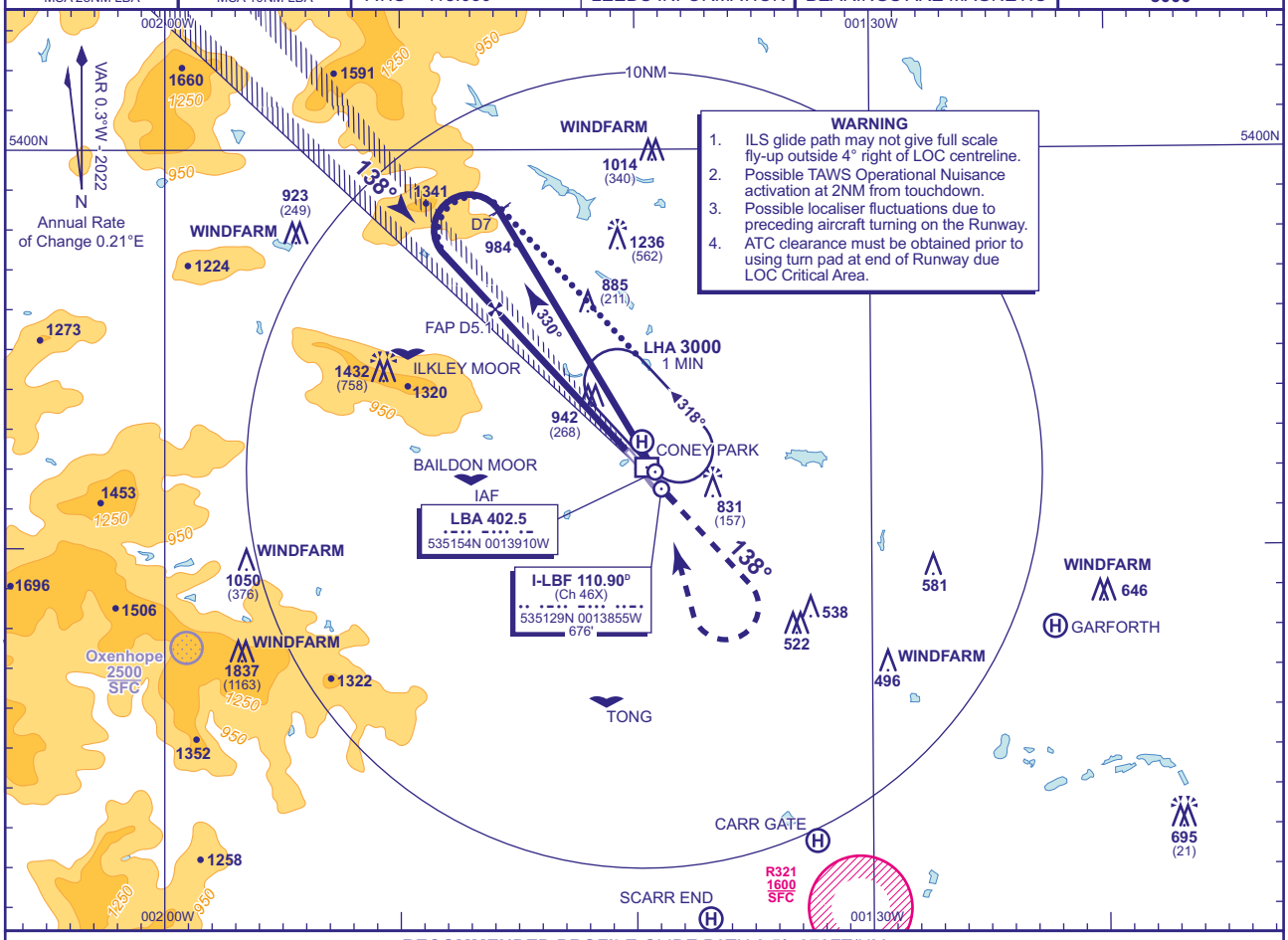


MSA 25NM LBA



MSA 10NM LBA

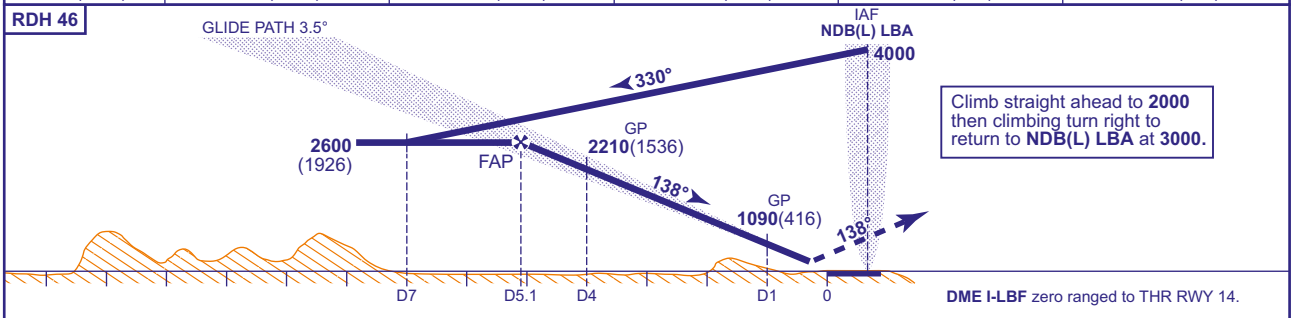
APP	134.580	LEEDS APPROACH	AD ELEVATION	682	TRANSITION ALTITUDE 5000
TWR	120.305	LEEDS TOWER	THR ELEVATION	674	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION 1837 AMSL (1163) (ABOVE THR)		
	125.380	LEEDS DIRECTOR			
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-LBF	5	4	3	2	1
ALT(HGT)	**2580**(1906)	**2210**(1536)	**1840**(1166)	**1460**(786)	**1090**(416)

RDH 46



Aircraft Category		A	B
OCA (OCH)	CAT I	**827**(153)	**837**(163)
VM(C)OCA (OCH AAL)	Total Area	**1320**(638)	**1320**(638)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN

Overhead NDB(L) LBA in holding pattern, turn left and descend on extended outbound leg to **2600**(1926). At I-LBF DME 7 turn left to intercept the localizer. When established continue as Main Procedure.

NOTE **1** Lowest altitude to commence procedure from hold is **3000.**
2 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn.

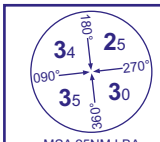
CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

AERO INFO DATE 21 MAY 25

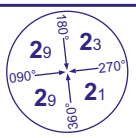
AD 2-EGNM-8-1

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
ILS/DME Z
RWY 14
(ACFT CAT C,D)



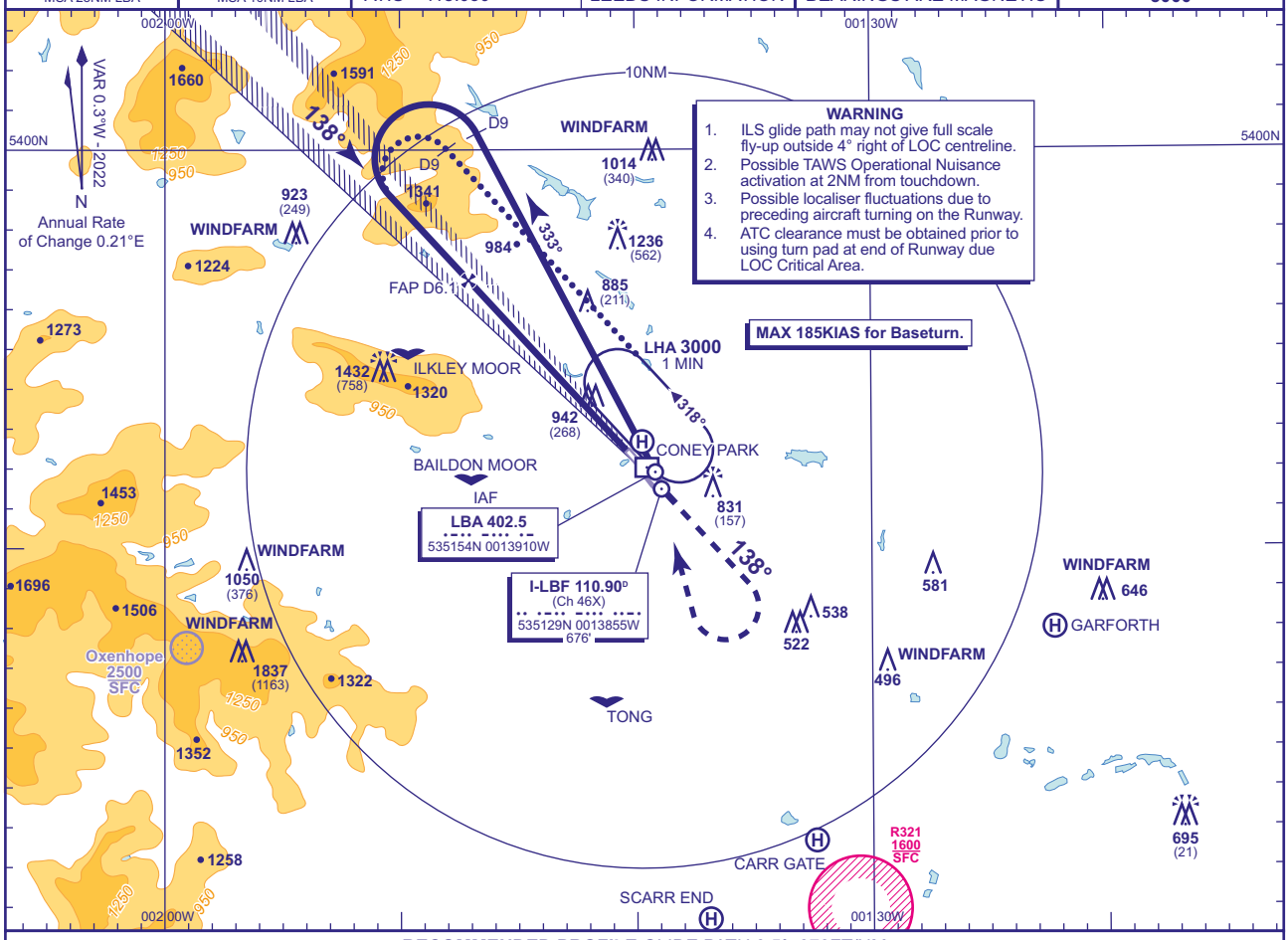
MSA 25NM LBA



MSA 10NM LBA

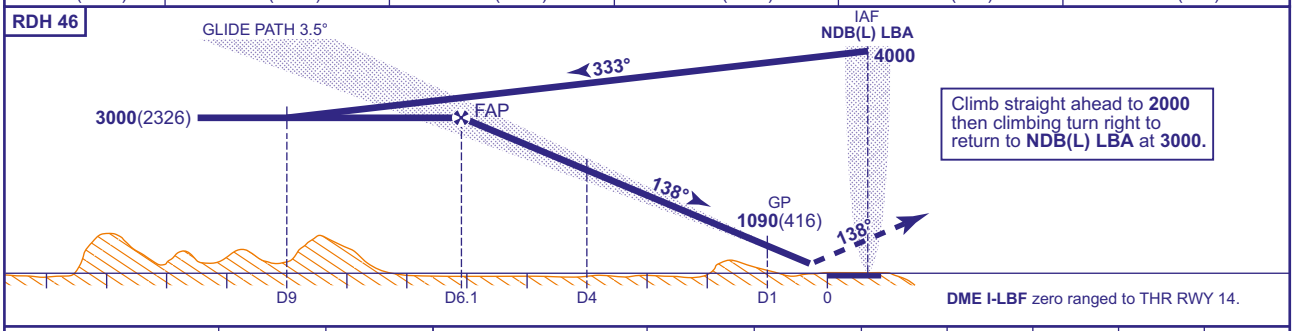
APP	134.580	LEEDS APPROACH	AD ELEVATION	**682**	
TWR	120.305	LEEDS TOWER	THR ELEVATION	**674**	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION **1837 AMSL** (1163) (ABOVE THR)		
	125.380	LEEDS DIRECTOR			
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-LBF	5	4	3	2	1
ALT(HGT)	**2580**(1906)	**2210**(1536)	**1840**(1166)	**1460**(786)	**1090**(416)



Aircraft Category		C	D
OCA (OCH)	CAT I	**848**(174)	**858**(184)
VM(C)OCA (OCH AAL)	Total Area	**1420**(738)	**1650**(968)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) LBA in holding pattern, turn left and descend on extended outbound leg to **3000**(2326). At I-LBF DME 9 turn left to intercept the localizer. When established continue as Main Procedure.

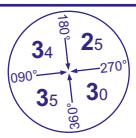
NOTE **1** Lowest altitude to commence procedure from hold is **3000.**
2 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn.

CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

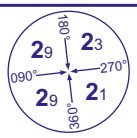
AERO INFO DATE 21 MAY 25 AD 2-EGNM-8-2

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
LOC/DME Y
RWY 14
(ACFT CAT A,B)



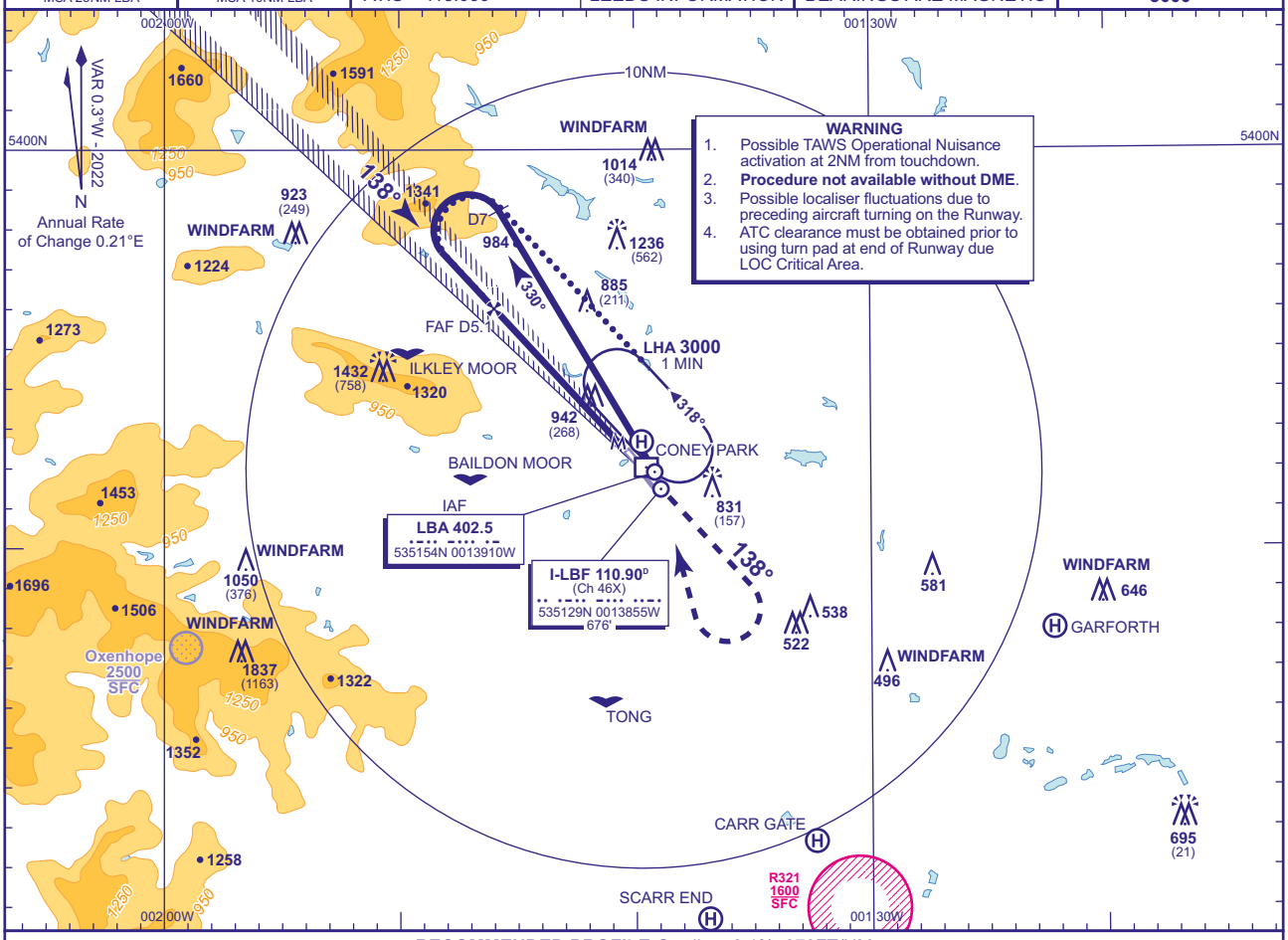
MSA 25NM LBA



MSA 10NM LBA

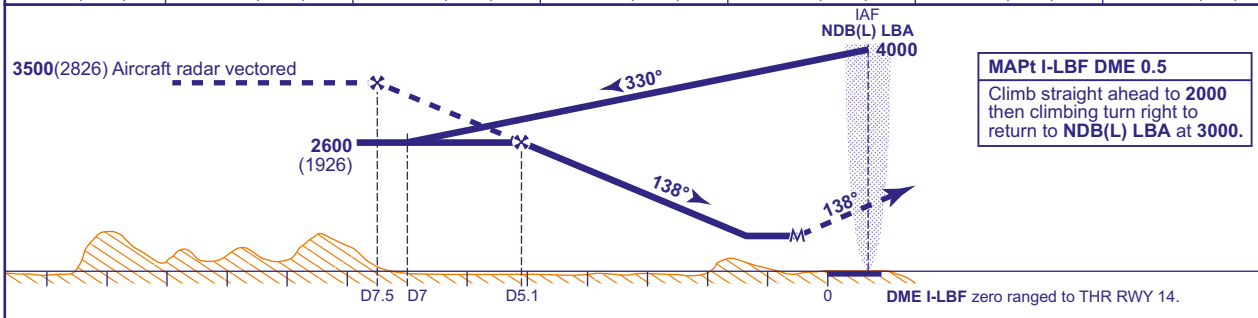
APP	134.580	LEEDS APPROACH	AD ELEVATION	682	
TWR	120.305	LEEDS TOWER	THR ELEVATION	674	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION		
	125.380	LEEDS DIRECTOR	1837 AMSL (1163) (ABOVE THR)		
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-LBF	7	6	5	4	3	2
ALT(HGT)	**3320**(2646)	**2950**(2276)	**2580**(1906)	**2210**(1536)	**1840**(1166)	**1460**(786)



MAPt I-LBF DME 0.5
Climb straight ahead to **2000** then climbing turn right to return to **NDB(L) LBA** at **3000.**

Aircraft Category		A	B
OCA (OCH)	**Procedure**	**1200**(526)	**1200**(526)
VM(C)OCA (OCH AAL)	**Total Area**	**1320**(638)	**1320**(638)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) LBA in holding pattern, turn left and descend on extended outbound leg to **2600**(1926). At I-LBF DME 7 turn left to intercept the localizer. When established continue as Main Procedure.

NOTE **1** Lowest altitude to commence procedure from hold is **3000.**
2 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn.

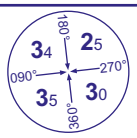
CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

AERO INFO DATE 21 MAY 25

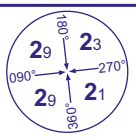
AD 2-EGNM-8-3

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
LOC/DME Z
RWY 14
(ACFT CAT C,D)

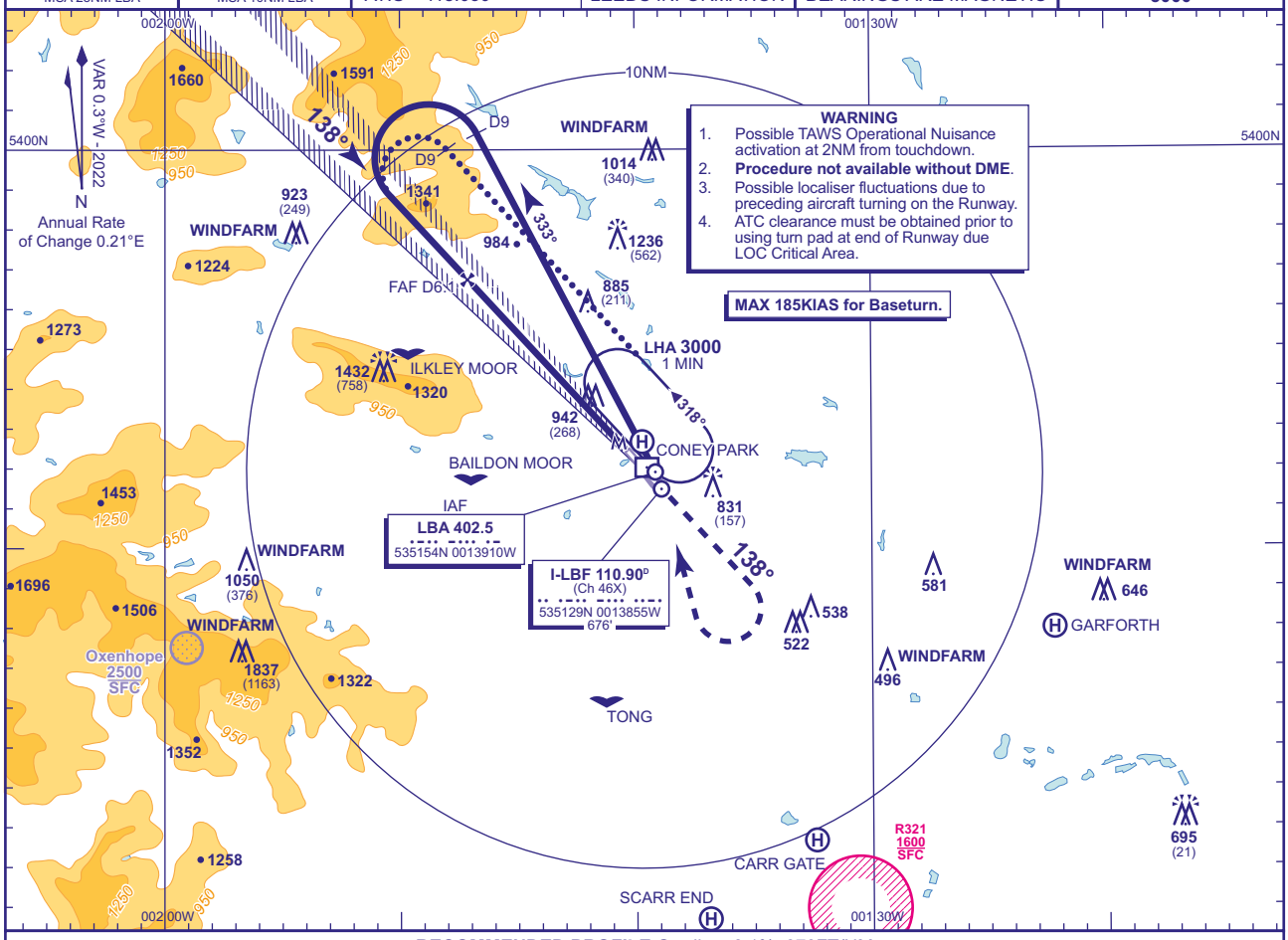


MSA 25NM LBA



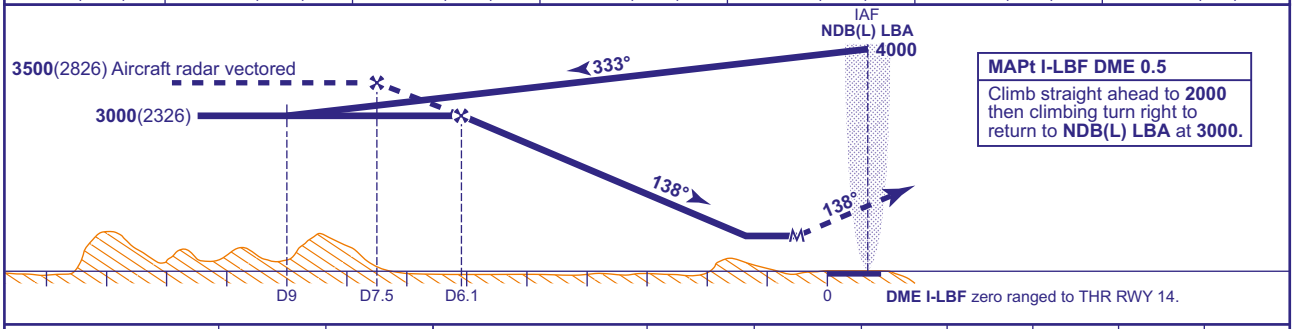
MSA 10NM LBA

APP	134.580	LEEDS APPROACH	AD ELEVATION	**682**	TRANSITION ALTITUDE **5000**
TWR	120.305	LEEDS TOWER	THR ELEVATION	**674**	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION **1837 AMSL** (1163) (ABOVE THR)		
	125.380	LEEDS DIRECTOR			
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-LBF	7	6	5	4	3	2
ALT(HGT)	**3320**(2646)	**2950**(2276)	**2580**(1906)	**2210**(1536)	**1840**(1166)	**1460**(786)



Aircraft Category		**C**	**D**
OCA (OCH)	**Procedure**	**1200**(526)	**1200**(526)
VM(C)OCA (OCH AAL)	**Total Area**	**1420**(738)	**1650**(968)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) LBA in holding pattern, turn left and descend on extended outbound leg to **3000**(2326). At I-LBF DME 9 turn left to intercept the localizer. When established continue as Main Procedure.

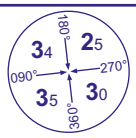
NOTE **1** Lowest altitude to commence procedure from hold is **3000.**
2 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn.

CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

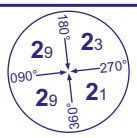
AERO INFO DATE 21 MAY 25 AD 2-EGNM-8-4

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
NDB(L)/DME Y
RWY 14
(ACFT CAT A,B)

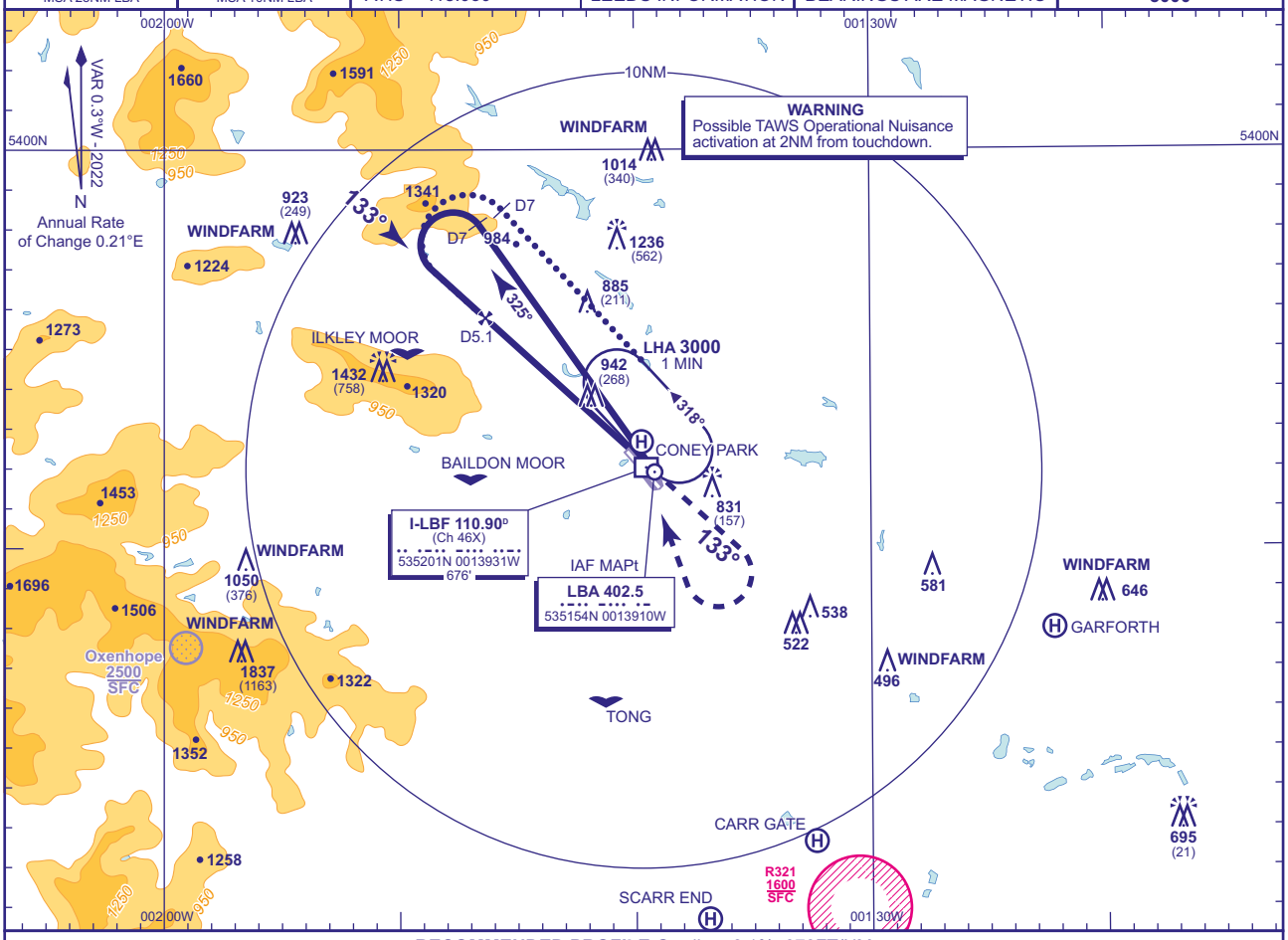


MSA 25NM LBA



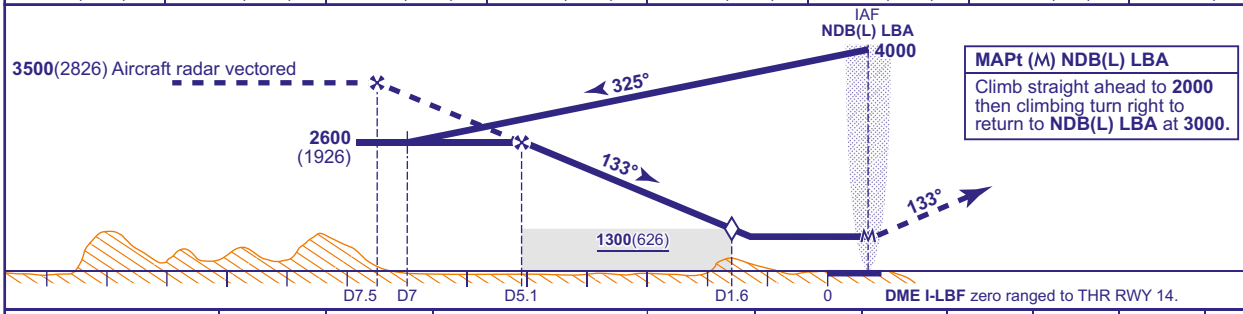
MSA 10NM LBA

APP	134.580	LEEDS APPROACH	AD ELEVATION	682	TRANSITION ALTITUDE 5000
TWR	120.305	LEEDS TOWER	THR ELEVATION	674	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION 1837 AMSL (1163) (ABOVE THR)		
	125.380	LEEDS DIRECTOR			
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-LBF	7	6	5	4	3	2	1.6 (SDF)
ALT(HGT)	3340(2666)	2960(2286)	2590(1916)	2220(1546)	1840(1166)	1470(796)	1300(626)



MAPt (M) NDB(L) LBA
Climb straight ahead to **2000** then climbing turn right to return to **NDB(L) LBA** at **3000.**

Aircraft Category		A	B
OCA (OCH)	WITH DME	1200(526)	1200(526)
	NO DME	1860(1186)	1860(1186)
VM(C)OCA (OCH AAL)	Total Area	1320(638)	1320(638)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	750	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN Overhead NDB(L) LBA in holding pattern, turn left and descend on extended outbound leg to **2600**(1926). At I-LBF DME 7 turn left onto FAT. When established continue as Main Procedure.

ALTERNATIVE TIMED PROCEDURE AIRCRAFT CAT A,B ONLY
Fly procedures, substituting timing of 3MIN on outbound leg, when established inbound on extended FAT descend to MDH.

NOTES
1 FAT offset by 5° from RWY C/L.
2 Lowest altitude to commence procedure from hold is **3000.**
3 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the baseturn.

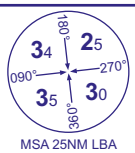
CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

AERO INFO DATE 21 MAY 25

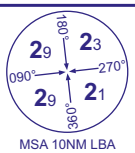
AD 2-EGNM-8-5

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
NDB(L)/DME Z
RWY 14
(ACFT CAT C,D)



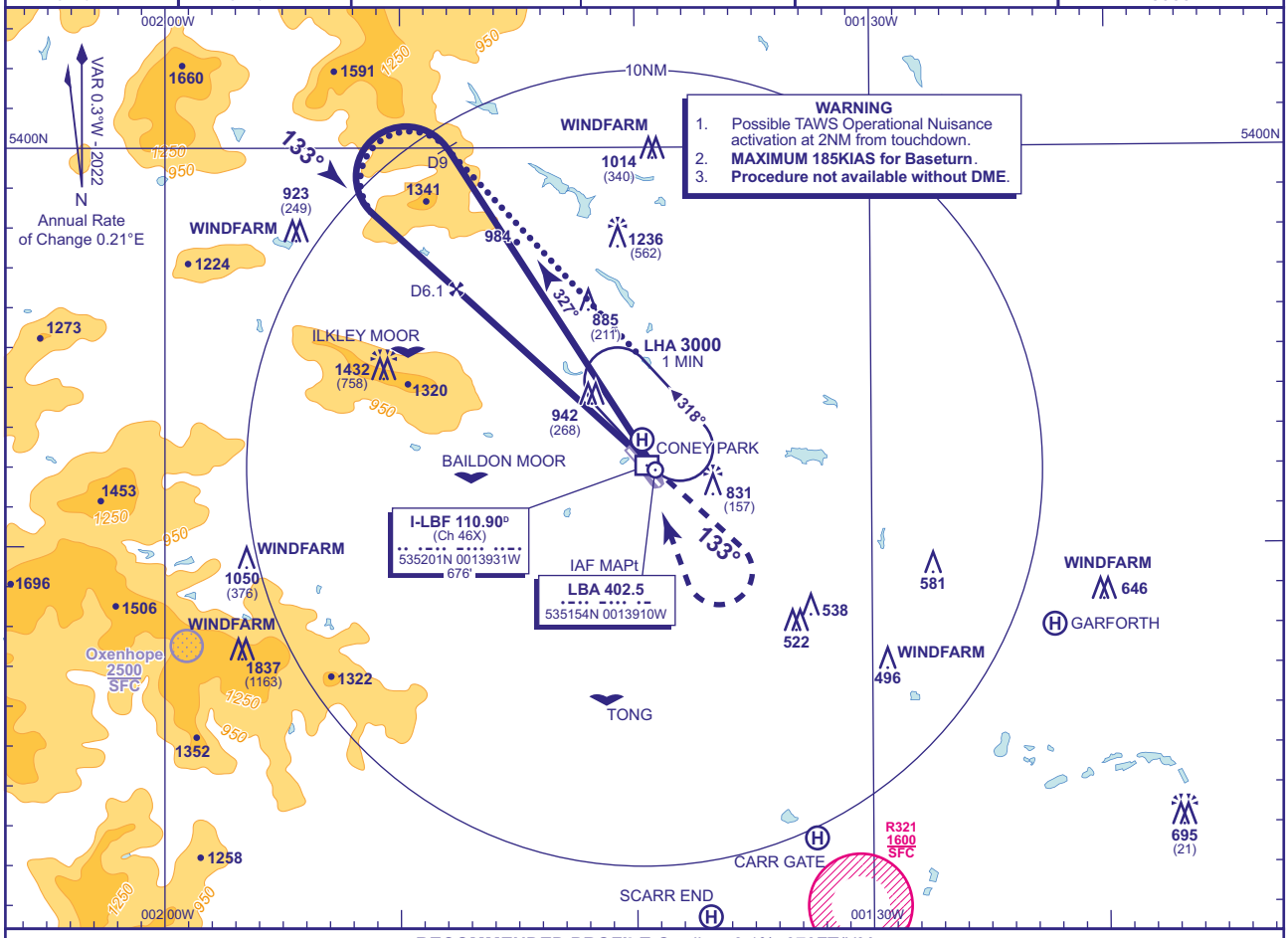
MSA 25NM LBA



MSA 10NM LBA

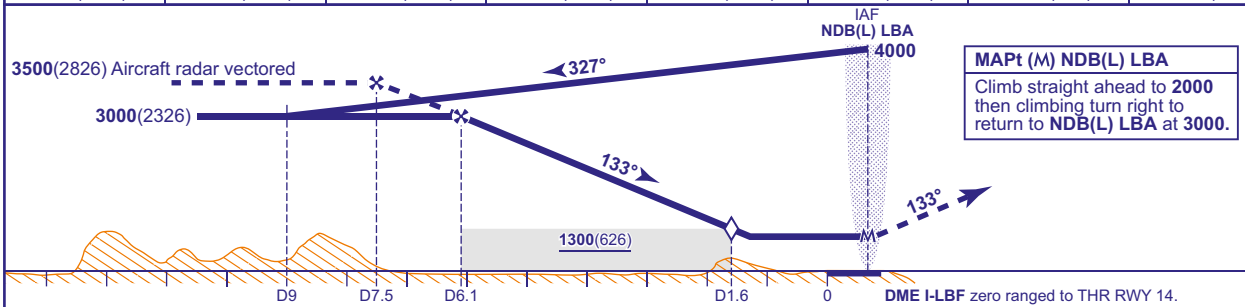
APP	134.580	LEEDS APPROACH	AD ELEVATION	**682**	
TWR	120.305	LEEDS TOWER	THR ELEVATION	**674**	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION **1837 AMSL** (1163) (ABOVE THR)		
	125.380	LEEDS DIRECTOR			
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 6.1%, 370FT/NM

DME I-LBF	7	6	5	4	3	2	1.6 **(SDF)**
ALT(HGT)	**3340**(2666)	**2960**(2286)	**2590**(1916)	**2220**(1546)	**1840**(1166)	**1470**(796)	**1300**(626)



MAPt (M) NDB(L) LBA
Climb straight ahead to **2000** then climbing turn right to return to **NDB(L) LBA** at **3000.**

Aircraft Category		**C**	**D**
OCA (OCH)	**Procedure**	**1200**(526)	**1200**(526)
VM(C)OCA (OCH AAL)	**Total Area**	**1420**(738)	**1650**(968)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	750	620	500

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN Overhead NDB(L) LBA in holding pattern, turn left and descend on extended outbound leg to **3000**(2326). At I-LBF DME 9 turn left onto FAT. When established continue as Main Procedure.

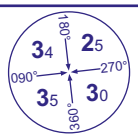
NOTES **1** FAT offset by 5° from RWY C/L.
2 Lowest altitude to commence procedure from hold is **3000.**
3 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the baseturn.

CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

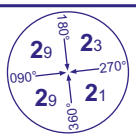
AERO INFO DATE 21 MAY 25 AD 2-EGNM-8-6

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
ILS/DME/NDB(L)
RWY 32
(ACFT CAT A,B,C,D)

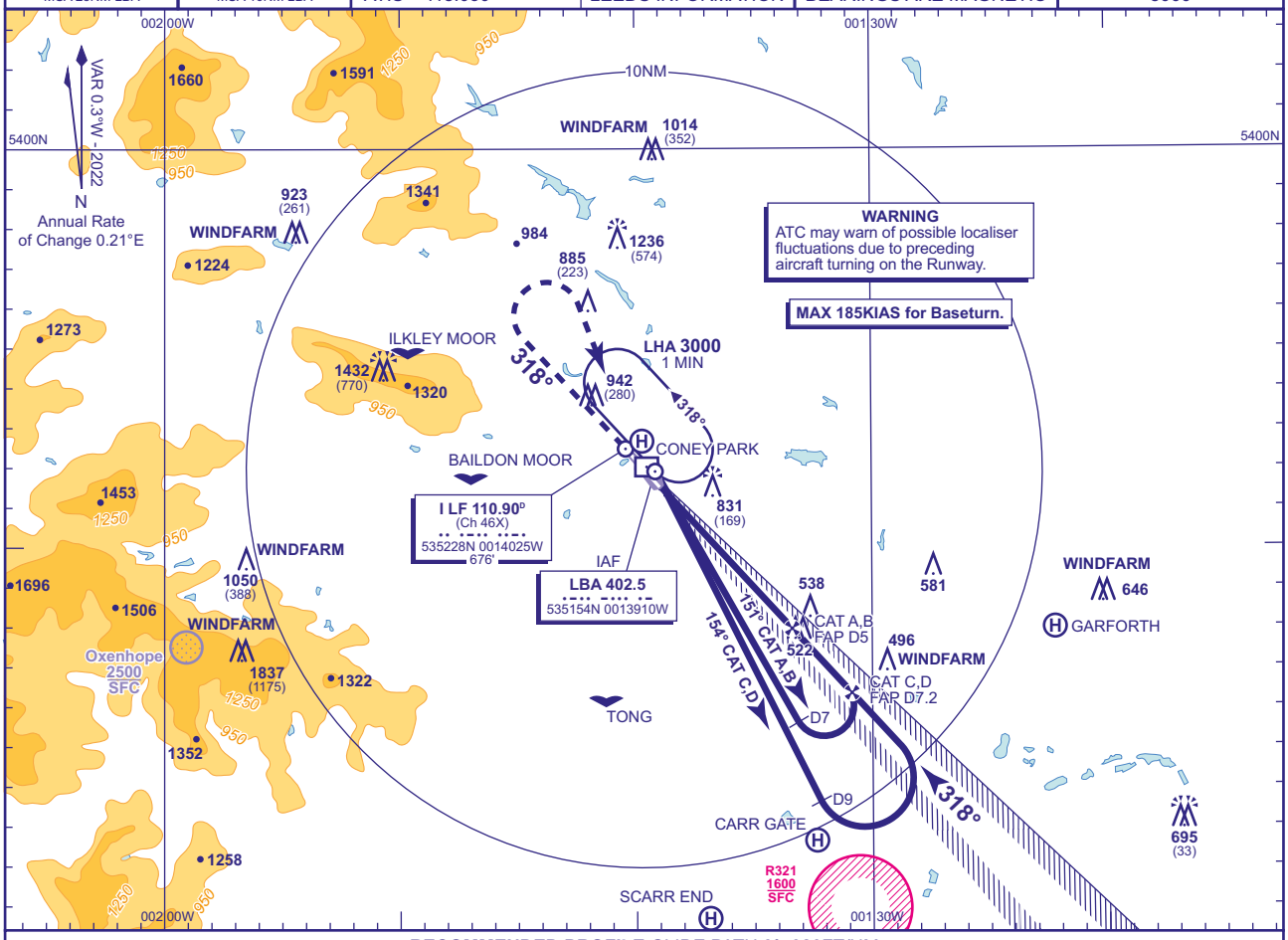


MSA 25NM LBA



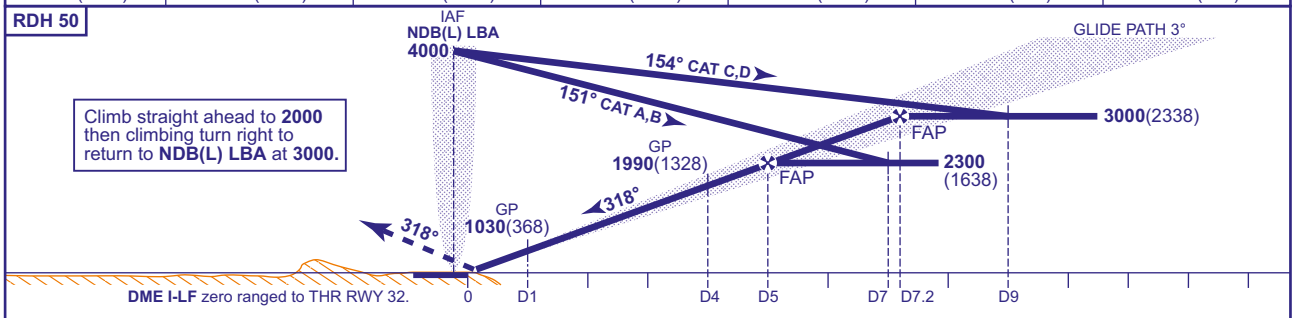
MSA 10NM LBA

APP	134.580	LEEDS APPROACH	AD ELEVATION	682	TRANSITION ALTITUDE 5000
TWR	120.305	LEEDS TOWER	THR ELEVATION	662	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION 1837 AMSL (1175) (ABOVE THR)		
	125.380	LEEDS DIRECTOR			
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-LF	6	5	4	3	2	1
ALT(HGT)	**2620**(1958)	**2310**(1648)	**1990**(1328)	**1670**(1008)	**1350**(688)	**1030**(368)



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**871**(209)	**881**(219)	**892**(230)	**901**(239)
	CAT II	**724**(62)	**734**(72)	**748**(86)	**767**(105)
VM(C)OCA (OCH AAL)	Total Area	**1320**(638)	**1320**(638)	**1420**(738)	**1650**(968)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE **1** Lowest altitude to commence procedure from hold is **3000.**
2 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the baseturn.

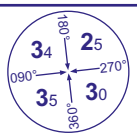
CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

AERO INFO DATE 21 MAY 25

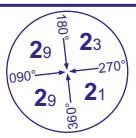
AD 2-EGNM-8-7

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
LOC/DME/NDB(L)
RWY 32
(ACFT CAT A,B,C,D)



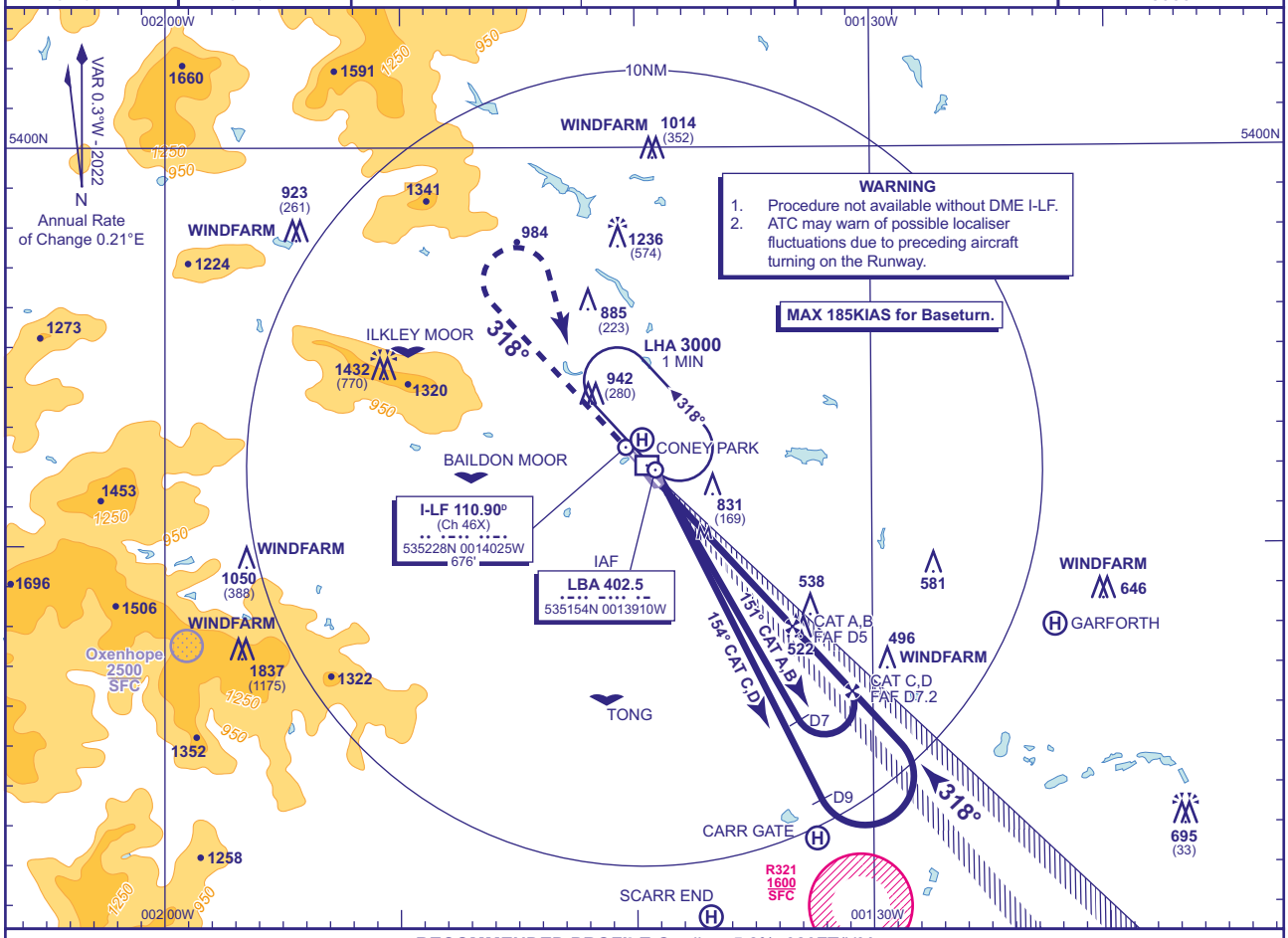
MSA 25NM LBA



MSA 10NM LBA

APP 134.580	LEEDS APPROACH	AD ELEVATION	682
TWR 120.305	LEEDS TOWER	THR ELEVATION	662
RAD 134.580	LEEDS RADAR	OBSTACLE ELEVATION	
125.380	LEEDS DIRECTOR	1837 AMSL (1175) (ABOVE THR)	
ATIS 118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



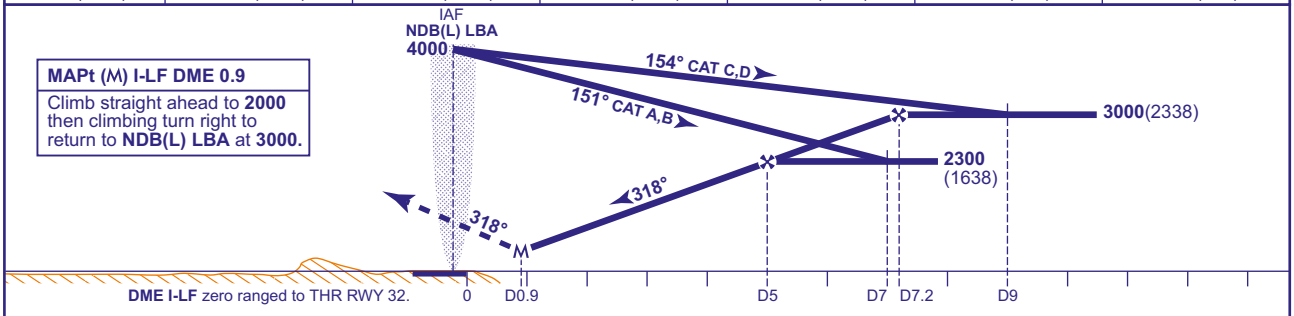
WARNING
1. Procedure not available without DME I-LF.
2. ATC may warn of possible localiser fluctuations due to preceding aircraft turning on the Runway.

MAX 185KIAS for Baseturn.

RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-LF	6	5	4	3	2	1
ALT(HGT)	**2620**(1958)	**2310**(1648)	**1990**(1328)	**1670**(1008)	**1350**(688)	**1030**(368)

MAPt (M) I-LF DME 0.9
Climb straight ahead to **2000** then climbing turn right to return to **NDB(L) LBA** at **3000.**



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**1020**(358)	**1020**(358)	**1020**(358)	**1020**(358)
VM(C)OCA (OCH AAL)	Total Area	**1320**(638)	**1320**(638)	**1420**(738)	**1650**(968)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

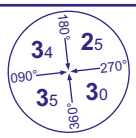
NOTE **1** Lowest altitude to commence procedure from hold is **3000.**
2 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the baseturn.

CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

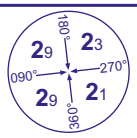
AERO INFO DATE 21 MAY 25 AD 2-EGNM-8-8

INSTRUMENT APPROACH CHART - ICAO

LEEDS BRADFORD
NDB(L) DME
RWY 32
(ACFT CAT A,B,C,D)

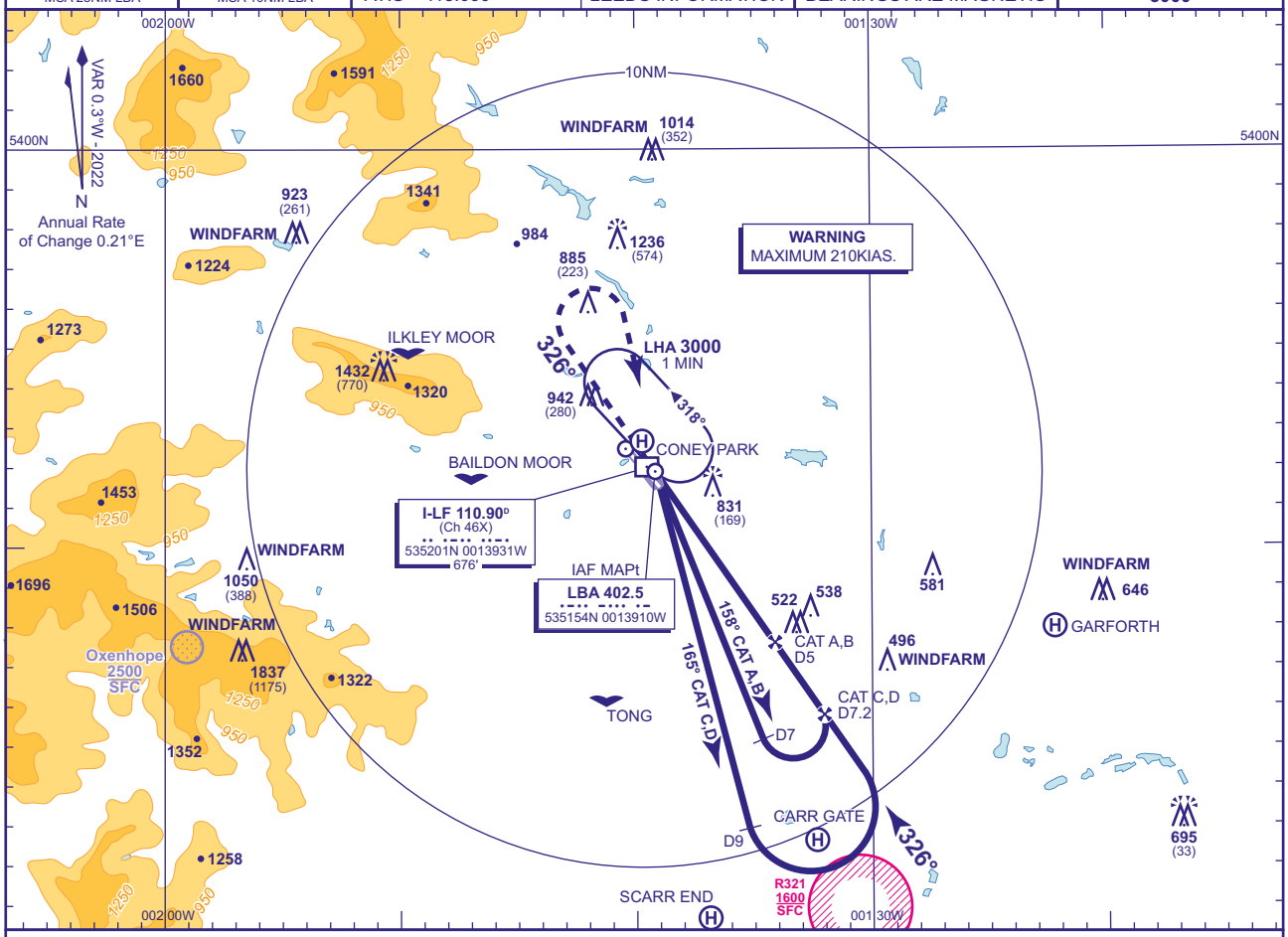


MSA 25NM LBA



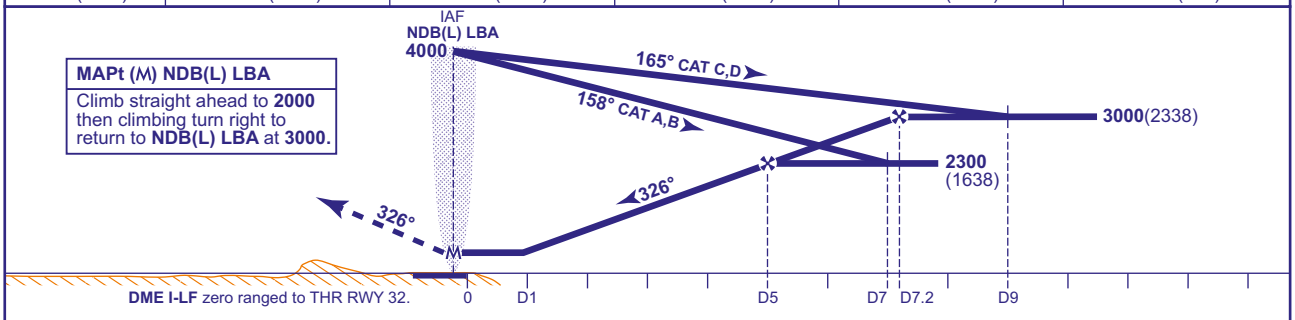
MSA 10NM LBA

APP	134.580	LEEDS APPROACH	AD ELEVATION	682	TRANSITION ALTITUDE 5000
TWR	120.305	LEEDS TOWER	THR ELEVATION	662	
RAD	134.580	LEEDS RADAR	OBSTACLE ELEVATION 1837 AMSL (1175) (ABOVE THR)		
	125.380	LEEDS DIRECTOR			
ATIS	118.030	LEEDS INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-LF	6	5	4	3	2
ALT(HGT)	**2620**(1958)	**2300**(1638)	**1990**(1328)	**1670**(1008)	**1350**(688)



MAPt (M) NDB(L) LBA
Climb straight ahead to **2000** then climbing turn right to return to **NDB(L) LBA** at **3000.**

Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**1050**(388)	**1050**(388)	**1080**(418)	**1100**(438)
	NO DME	**1100**(438)	**1100**(438)	**N/A**	**N/A**
VM(C)OCA (OCH AAL)	Total Area	**1320**(638)	**1320**(638)	**1420**(738)	**1650**(968)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420

ALTERNATIVE TIMED PROCEDURE AIRCRAFT CAT A,B ONLY
Fly procedures, substituting timing of 3MIN on outbound leg, when established inbound on extended FAT descend to MDH.

NOTES
1 FAT offset by 7.7° from RWY C/L.
2 Lowest altitude to commence procedure from hold is **3000.**
3 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the baseturn.

CHANGE (8/25): AD ELEVATION. MINIMA. MSA REVISED.

AERO INFO DATE 21 MAY 25

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EGCM — LEEDS EAST

EGCM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCM — LEEDS EAST

EGCM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 535004N Long: 0011144W Intersection of runways.
2	Direction and distance from city	4 NM SW of York.
3	Elevation / Reference temperature / Mean Low Temperature	29 FT / 21 °C / -
4	Geoid undulation at AD ELEV PSN	158 FT
5	Magnetic Variation / Annual Change	0.09°W (2022) / 0.21°E
6	AD Administration Address Telephone E-mail address Web address	MAKIN ENTERPRISES Leeds East Airport, Busk Lane, Church Fenton, North Yorkshire, LS24 9SE. 01937-534197 (Ops/Fuel) 07541-226316 (Ops - Mobile) ops@leedseastairport.co.uk www.leedseastairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGCM AD 2.3 OPERATIONAL HOURS

1	AD Administration	0800-1800 (0700-1700). Extensions by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	H24
9	Handling	As AD hours.
10	Security	H24
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGCM AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Forklifts available through Ops, prior notice required.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL Oil by prior arrangement. W80, W100, W100+, S80, S100, 15/50.
3	Fuelling facilities/capacity	AVTUR capacity 42,000 LT and self service pump available. AVGAS capacity 15,000 LT and self service pump available.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Yes. Subject to prior arrangement.
6	Repair facilities for visiting aircraft	
7	Remarks	

EGCM AD 2.5 PASSENGER FACILITIES

1	Hotels	In vicinity. Preferential rates available.
2	Restaurants	Cafe. VIP and executive catering by arrangement.
3	Transportation	Buses, taxis, car hire and limousines. Nearest railway stations: Church Fenton or Uleskelf.
4	Medical facilities	Limited first aid treatment.

5	Bank and Post Office	Village 1 mile.
6	Tourist Office	
7	Remarks	

EGCM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	Mon-Fri RFF Category 2. Sat-Sun RFF Category 1. RFF Category 3 aircraft accepted under remission.
2	Rescue equipment	One 4x4 Foam Tender.
3	Capability for removal of disabled aircraft	In the event of an incident, light aircraft can be removed using airport resources. Large aircraft can be removed using outside sources, in conjunction with aircraft operators. Contact 01937-534197.
4	Remarks	

EGCM AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Latest information from Operations Tel: 01937-534194 Ext 3.

EGCM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt PCN 45/F/C/X/U
2	Taxiway width, surface and strength	Taxiway ALPHA: 15 M Surface: Asphalt PCN 26/F/B/X/U Taxiway BRAVO: 15 M Surface: Asphalt PCN 20/F/C/X/U Taxiway ECHO: 15 M Surface: Asphalt PCN 20/F/C/Z/U Taxiway FOXTROT: 15 M Surface: Asphalt PCN 8/F/C/X/U
3	Altimeter checkpoint location and elevation	Main Apron 29 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGCM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Marshalling on request.
2	Runway and taxiway markings and lighting	Taxiway marking aid(s): Yellow centre-line, taxiway holding position; Holding point A1, threshold of RWY 06.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Wind direction indicator. Illuminated windsock.

EGCM AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
INTENTIONALLY BLANK					

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCM1366)	COMMS MAST	535505.51N 0011032.53W	230 FT	93 FT	Yes	
(EGCM1356)	PYLON	535218.41N 0011742.02W	298 FT	121 FT	No	
(EGCM1363)	PYLON	535213.72N 0011823.84W	293 FT	125 FT	No	
(EGCM1355)	PYLON	535210.50N 0011749.49W	291 FT	123 FT	No	
(EGCM1372)	COMMS MAST	535205.24N 0010453.42W	204 FT	124 FT	Yes	
(EGCM1367)	RAILWAY COMMS MAST	535144.89N 0011049.75W	138 FT	98 FT	Yes	
(EGCM1340)	FLAG POLE	535140.59N 0011507.93W	233 FT	89 FT	No	
(EGCM1068)	TREE	535135.87N 0011207.07W	139 FT	98 FT	No	
(EGCM1343)	TREE	535134.14N 0011517.01W	218 FT	86 FT	No	
(EGCM1344)	TREE	535133.60N 0011517.87W	223 FT	94 FT	No	
(EGCM1195)	TREE	535109.69N 0010915.42W	135 FT	105 FT	No	
(EGCM1749)	PYLON	534927.87N 0012001.24W	334 FT	135 FT	No	
(EGCM2324)	ELECTRICITY PYLON	534906.47N 0011953.84W	347 FT	149 FT	No	
(EGCM2321)	ELECTRICITY PYLON	534826.37N 0012006.77W	372 FT	135 FT	No	
(EGCM1723)	CHIMNEY	534814.63N 0011331.57W	143 FT	116 FT	No	
(EGCM1722)	BUILDING	534814.04N 0011323.10W	140 FT	113 FT	No	
(EGCM1720)	CHIMNEY	534744.44N 0011341.65W	166 FT	140 FT	No	
(EGCM1761)	MAST	534658.68N 0012222.41W	427 FT	99 FT	Yes	
(EGCM1775)	CHIMNEY LIT	534242.85N 0010730.53W	694 FT	656 FT	Yes Red	

EGCM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.

7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	Self-briefing terminal (internet).
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Unofficial observations made during AD hours.

EGCM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06	054.67°	1826 x 45 M	RWY surface: Asphalt PCN 30/F/C/X/U	534949.45N 0011218.62W 158.2 FT	THR 28.4 FT TDZ 28.7 FT	RWY 06 -0.01% Down RWY 24 0.01% Up
24	234.68°	1826 x 45 M	RWY surface: Asphalt PCN 30/F/C/X/U	535021.47N 0011102.25W 158.1 FT	THR 27.4 FT TDZ 27.4 FT	RWY 06 -0.01% Down RWY 24 0.01% Up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1831 x 280 M				RWY 06 Threshold displaced by 134 M.
47 x 46 M		1831 x 280 M				RWY 24

EGCM AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	1799 M	1799 M	1799 M	1711 M	
24	1711 M	1711 M	1711 M	1711 M	
06	1184 M	1184 M	1184 M		Take-off from intersection with F1.
06	921 M	921 M	921 M		Take-off from intersection with permanently closed Runway 16/34.
24	810 M	810 M	810 M		Take-off from intersection with permanently closed Runway 16/34.

EGCM AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06	Centre-line with two crossbars. 300 M Light intensity high	Green Light intensity high bi-directional with green wingbars.	PAPI Both/3° 43 FT 13.1 M			HI elevated bi-directional 30 M spacing with LI omni-directional component 90 M spacing. Light intensity high	Red		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
24	Centre-line with five crossbars. 900 M Light intensity high	Green Light intensity high bi-directional with green wingbars.	PAPI Both/3° 57 FT 17.4 M			HI elevated bi-directional 30 M spacing with LI omni-directional component 90 M spacing. Light intensity high	Red		

EGCM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	LDI: 535003.00N 0011136.00W (Red obstruction light)
3	TWY edge and centre line lighting	EDGE: Blue edge lights on all taxiways.
4	Secondary power supply/switch-over time	Yes. Standby generator 10 seconds switching ability. Tower building UPS no break switching.
5	Remarks	Main Apron floodlighting.

EGCM AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	North Heli in between Taxiway Bravo & Main Runway. South Heli adjacent to disused Threshold 34. Pilots should communicate intensions taxing to and from the Heli reporting points.

EGCM AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LEEDS EAST ATZ 534837N 0011510W thence clockwise by the arc of a circle radius 2.5 NM centred on 535004N 0011144W to 534749N 0010956W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534823N 0011032W - 534837N 0011510W	Upper limit: 2000 FT AGL Lower limit: SFC	G	FENTON RADIO English	3000 FT		

EGCM AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	FENTON FIRE	121.600 Non-ATS Frequency			Available when fire vehicle attending aircraft on the ground in an emergency.	ATZ hours coincident with A/G hours.
	FENTON RADIO	120.710 DOC 30 NM/6000 FT. A/G frequency.			0800-1800 (0700-1700). Extensions by arrangement.	

EGCM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGCM AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Not available to aircraft unable to communicate with Tower.
b) Aerobatic manoeuvres and low flypasts are prohibited unless prior approval has been given by the aerodrome operator.
c) Airport is PPR for all aircraft movements. The filing of a Flight Plan does not comply with the requirements to obtain PPR.

2 GROUND MOVEMENT

a) Caution, reduced wing tip clearance between taxiing and parked aircraft on Main Apron.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) The only signals are light signals.
b) Pilots are to join and depart via the aerodrome VRPs, joining the visual circuit from the crosswind, downwind, base or finals. No deadside or overhead joins due to the conjoined ATZ with Sherburn in Elmet airfield to the south.
c) Obstacle marking and lighting: Control Tower, hangars, flood light stands and anemometer north of Runway 24/06.
d) At both ends of 06/24, the pavement width is wider than the delineated runway width.

5 HELICOPTER OPERATIONS

a) In order to avoid noise sensitive areas surrounding the aerodrome, helicopters should conform to the normal helicopter circuit procedures.
b) 700 FT Circuit Height on QFE arrivals and departure.
c) Helicopters should conform to a Helicopter circuit of 700 FT QFE with a 24 LH (Left Hand) and 06 RH (Right hand).
d) Helicopters should arrive via the official reporting points and position to Heli North or Heli South avoiding Sherburn Airfield ATZ and Fix wing circuit.
e) During LVP operations minimum MET visibility 450 M.

6 USE OF RUNWAYS

a) Except where a public transport operator has a lower State authorised take-off minima, the Aerodrome Authority cannot approve departures in RVR conditions of less than 400 M.

7 TRAINING

a) Use of the aerodrome for training is subject to agreement.
b) The number of aircraft in the visual circuit will be determined by Tower, subject to the prevailing weather conditions and other commercial or corporate traffic.
c) Booking procedures for all circuit training flights may be introduced by Tower during busy periods.

EGCM AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) Every operator of aircraft using the airport shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in the area surrounding the airport.
b) Only those aircraft meeting ICAO Chapter 3 criteria or better will be accepted. Contact Flight Operations on +44(0)1937-534197.
c) Pilots are requested to avoid the use of reverse thrust or reverse pitch above idle power settings on landing, consistent with the safe operation of the aircraft.
d) Due to the close proximity of residential areas, ground running of engines or Auxiliary Power Units (APU) shall be kept to a minimum consistent with operational requirements. At no time shall APUs be run for more than 30 minutes without Aerodrome Operator consent.
e) All aircraft should avoid flying over local villages.
f) **Runway 06** - Circuit pattern:

i. **Take-off**

Turn left as son as practicable to do so and establish on track to clear the village of Ryther (060 degrees, 2 NM). If remaining in the circuit, ensure that crosswind and downwind track is to the north of the villages Bolton Percy and Appleton Roebuck. It is acceptable to maintain a track between the two villages following the railway line.

ii. **Landing**

Maintain the downwind leg north of the villages Bolton Percy, Appleton Roebuck and Ulleskelf to avoid overflying. No low approaches over the village of Church Fenton. Remain north of the railway line.

g) **Runway 24** - Circuit pattern:

i. **Take-off**

Turn right as soon as practicable to do so and establish a westerly track to avoid overflying the village of Church Fenton. If remaining in the circuit ensure that the crosswind and downwind track is to the north of the villages Ulleskelf, Bolton Percy and Appleton Roebuck. Remain north of the railway line. It is acceptable to turn on base leg between the two villages following the railway line south bound (performance permitting).

ii. **Landing**

Ensure base leg remains clear of the villages Bolton Percy and Appleton Roebuck and if performance permits off set final approach to avoid the village of Ryther. Offset approach does not apply to aircraft on the RNP approach.

EGCM AD 2.22 FLIGHT PROCEDURES

1 CIRCUIT PROCEDURES

a) Aircraft taking off, 'going around' or making 'touch and go' landings may be subject to noise procedures as instructed by Tower.
b) Circuit direction: Runway 24 right hand; Runway 06 left hand.
c) Fixed wing circuit height 1000 FT QFE.
d) Helicopters circuit height 700 FT QFE.

2 VFR FLIGHTS

a) Arrival Procedures

i. The arrival procedure for traffic arriving at Leeds East Airport (LEA) will be via VFR reporting points not below 1500 FT AAL.

b) Departure Procedures

i. VFR departures will follow noise abatement then climb on track avoiding inbound VRP's.
ii. All departing and arriving aircraft should avoid overflying villages on the downwind leg. See AD 2.21.

3 VFR DEPARTURES JOINING AIRWAYS IFR

a) Subject to controller workload, expect to be controlled by either Scottish Control or Leeds Radar as appropriate.
b) Ops can obtain clearances from the relevant agency on aircraft start-up.
c) Commanders are reminded that LBA CAS exists between LEA and Pole Hill (FL85 and below) - Southerly departures file via UPTON avoiding LBA CAS.

4 PROCEDURES FOR INBOUND AIRCRAFT

a) All IFR traffic are to include EGCMZTZX as a flight plan addressee.

5 INSTRUMENT APPROACH PROCEDURES (IAP)

a) RNP Instrument Approach Procedures at LEA are established in Class G airspace and no approach control service is provided.
b) All IAPs must have a pre-booked approach time slot from LEA Operations on 01937-534197 which must be adhered to maintain separation.
c) Initial airborne requests for a procedure slot not accepted, unless in an emergency.
d) LEA Operations will provide a briefing document relating to the IAP. Pilots are to abide by the procedures in the briefing document when executing the IAP.
e) For an IVGOB IAF join, permission to transit LBA CAS is required from Leeds Approach.
f) Squawk 5077 when using EGCM RNP Approach.
g) Pilot Brief can be found on LEA website (www.leedseastairport.co.uk) for procedures and bookings.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGCM AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGCM AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCM-2-1
INSTRUMENT APPROACH CHART RNP RWY 06 (CAT A.B,C) - ICAO
AD 2.EGCM-8-1
INSTRUMENT APPROACH CHART RNP RWY 24 (CAT A,B,C) - ICAO
AD 2.EGCM-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 06
AD 2.EGCM-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 24
AD 2.EGCM-8-4

EGCM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

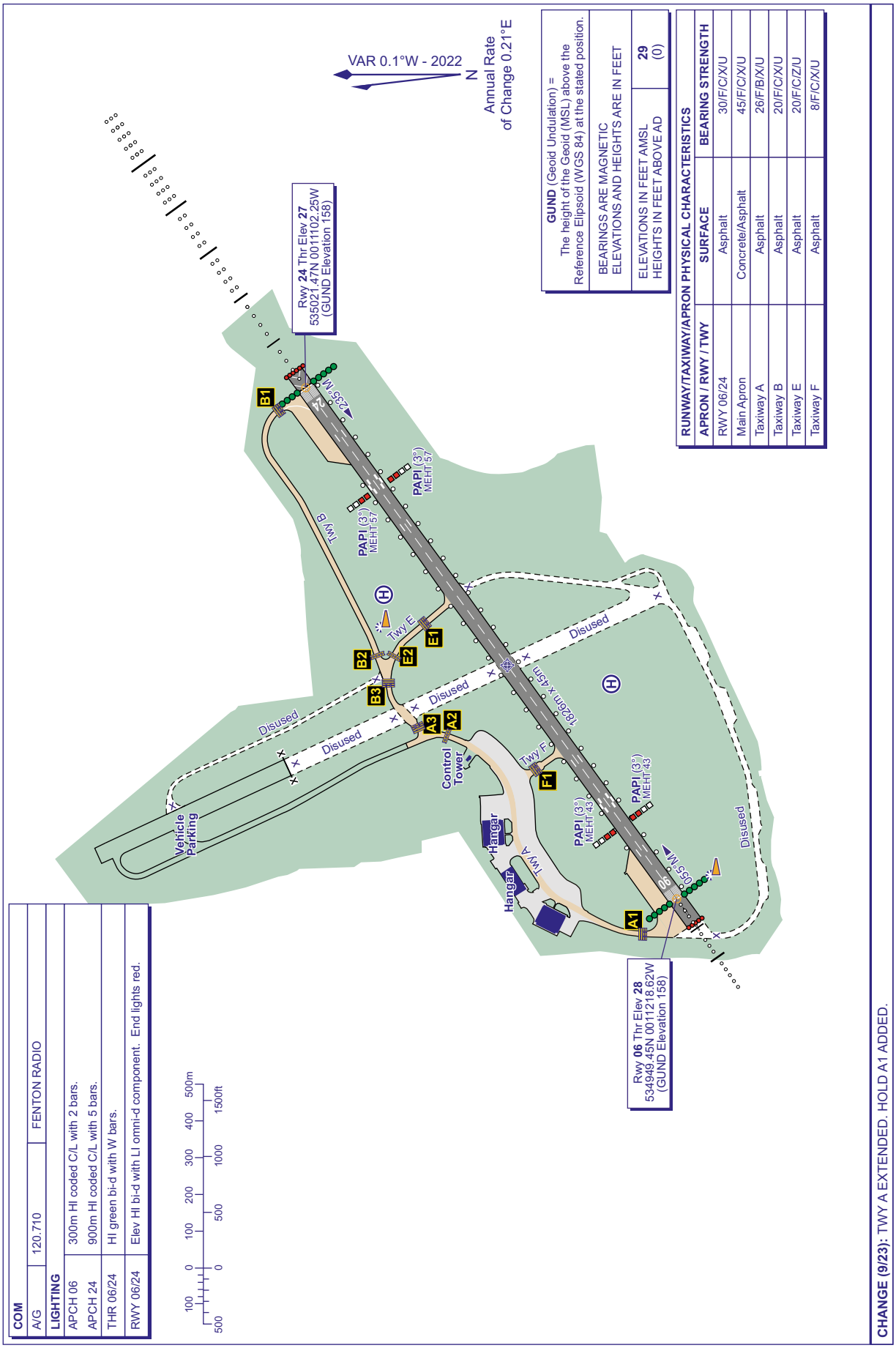
Not applicable

LEEDS EAST EGCM

AERODROME CHART - ICAO

ARP 535004N 0011144W

AD ELEV 29FT



COM

A/G	120.710	FENTON RADIO

LIGHTING

APCH 06	300m HI coded C/L with 2 bars.
APCH 24	900m HI coded C/L with 5 bars.
THR 06/24	HI green bi-d with W bars.
RWY 06/24	Elev HI bi-d with LI omni-d component. End lights red.

CHANGE (9/23): TWY A EXTENDED. HOLD A1 ADDED.

AERO INFO DATE 13 JUN 23

AD 2-EGCM-2-1

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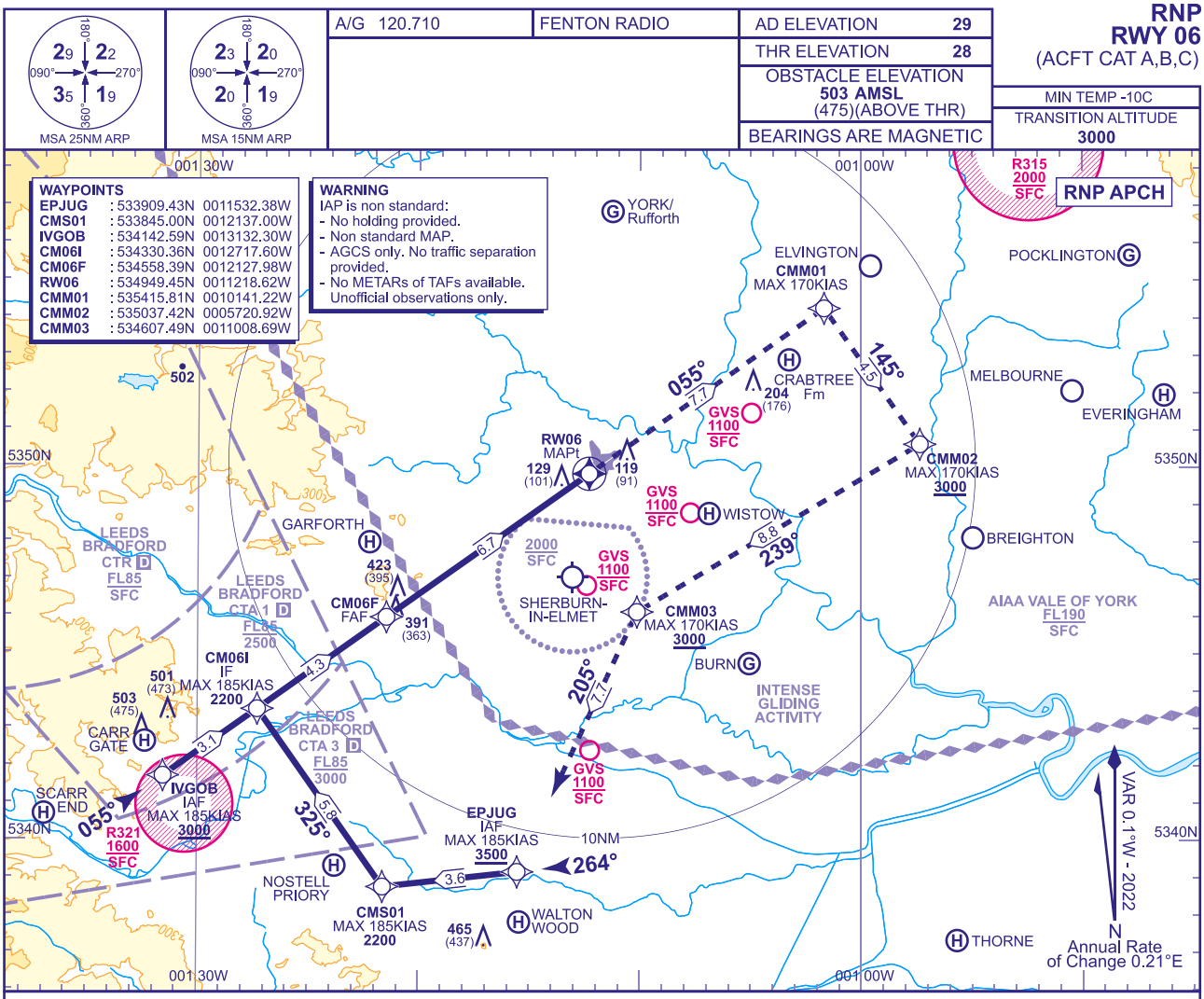
INSTRUCTION APPROACH CHART - ICAO

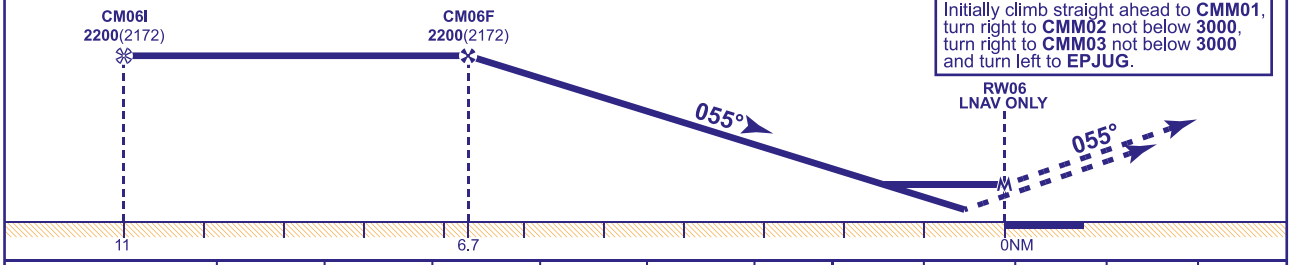
LEEDS EAST
RNP
RWY 06
(ACFT CAT A,B,C)



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV 5.24%), 318FT/NM

NM to RW06	6	5	4	3	2
ALT(HGT)	**1990**(1962)	**1670**(1642)	**1350**(1322)	**1030**(1002)	**710**(682)

TCH 50



MAPt (LNAV): RW06

Continuous climb to **3500**.
Initially climb straight ahead to **CMM01**, turn right to **CMM02** not below **3000**, turn right to **CMM03** not below **3000** and turn left to **EPJUG**.

Aircraft Category		A	B	C
OCA (OCH)	LNAV	**670**(642)	**670**(642)	**670**(642)
	LNAV/VNAV	**530**(502)	**530**(502)	**630**(602)
VM(C)OCA (OCH AAL)	Total Area	**680**(651)	**680**(651)	**710**(681)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 CAUTION airspace Leeds Bradford CTA/CTR.
2 Temperature at which VPA exceeds 3.5° is >40°C.

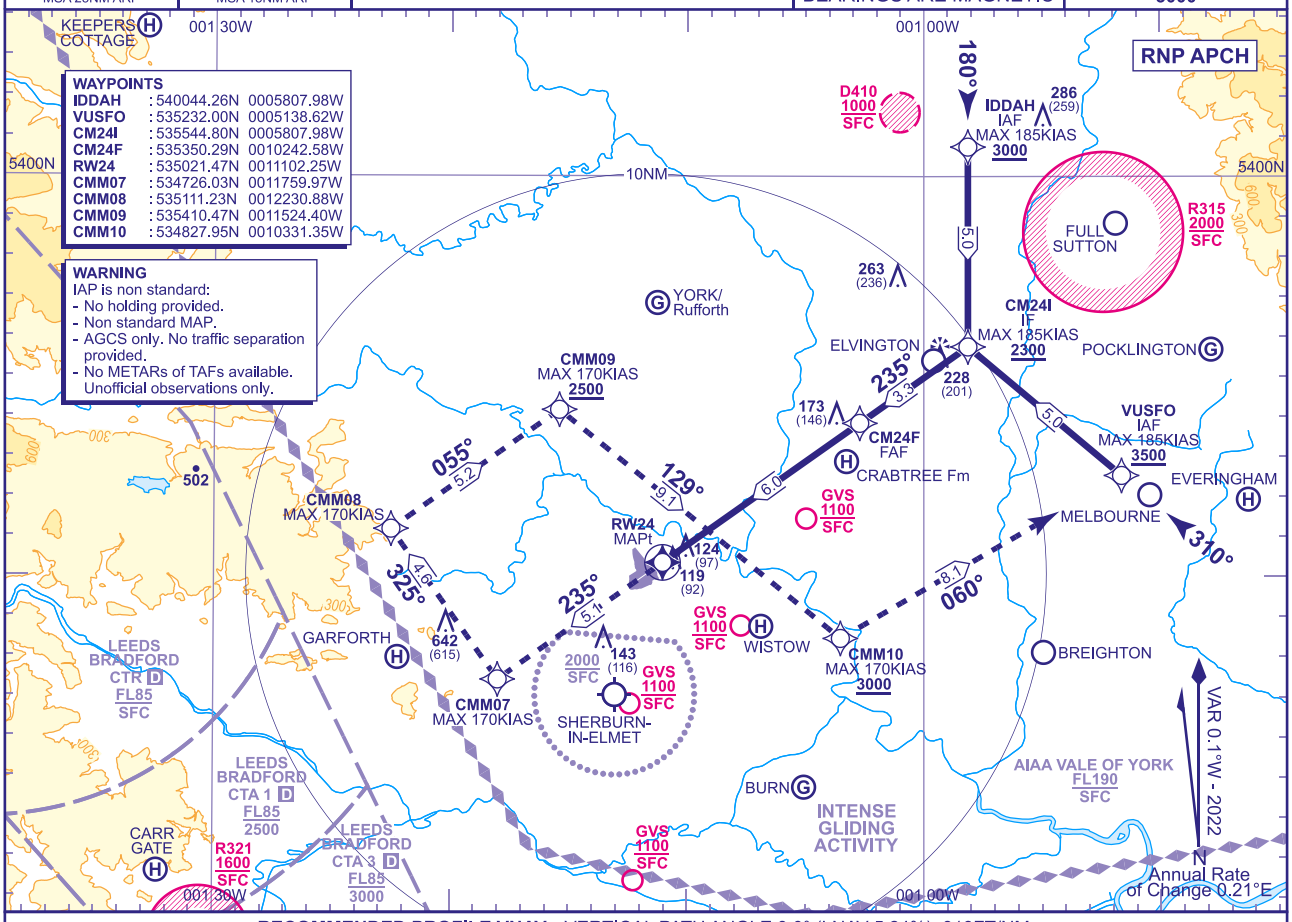
CHANGE (13/23): GVS RICCALL REMOVED.

AERO INFO DATE 03 OCT 23

INSTRUMENT APPROACH CHART - ICAO

LEEDS EAST
RNP
RWY 24
(ACFT CAT A,B,C)

MSA 25NM ARP: 29 / 22 / 35 / 19	MSA 15NM ARP: 23 / 20 / 20 / 19	A/G 120.710	FENTON RADIO
AD ELEVATION 29			
THR ELEVATION 27			
OBSTACLE ELEVATION 642 AMSL (615) (ABOVE THR)			
BEARINGS ARE MAGNETIC			
MIN TEMP -10C			
TRANSITION ALTITUDE 3000			



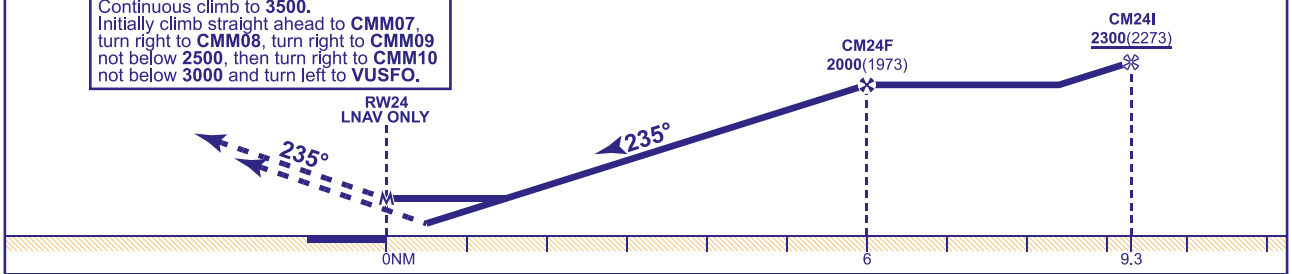
RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV 5.24%), 318FT/NM

NM to RW24	6	5	4	3	2
ALT(HGT)	**1990**(1963)	**1670**(1643)	**1350**(1323)	**1030**(1003)	**710**(683)

TCH 50

MAPt (LNAV): RW24

Continuous climb to **3500.**
Initially climb straight ahead to **CMM07**, turn right to **CMM08**, turn right to **CMM09** not below **2500**, then turn right to **CMM10** not below **3000** and turn left to **VUSFO.**



Aircraft Category		A	B	C
OCA (OCH)	LNAV	**530**(503)	**530**(503)	**630**(603)
	LNAV/VNAV	**530**(503)	**530**(503)	**630**(603)
VM(C)OCA (OCH AAL)	Total Area	**540**(511)	**560**(531)	**710**(681)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 Temperature at which VPA exceeds 3.5° is >40°C.

CHANGE (13/23): GVS RICCALL REMOVED.

AERO INFO DATE 03 OCT 23

AD 2-EGCM-8-2

Instrument Approach Procedure Coding Tables

LEEDS EAST RNP RWY 06 - Instrument Approach Procedure via EPJUG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R06R	001	IF	EPJUG	N	-	-	3500	-185	533909.43N 0011532.38W	IAF
R06R	002	TF	CMS01	N	264° (263.6°)	RIGHT	2200	-185	533845.00N 0012137.00W	-
R06R	003	TF	CM06I	N	325° (324.7°)	RIGHT	2200	-185	534330.36N 0012717.60W	IF / 11.0NM
R06R	004	TF	CM06F	N	055° (054.4°)	-	2200	-	534558.39N 0012127.98W	FAF / 6.7NM
R06R	005	TF	RW06	Y	055° (054.5°)	-	-	-	534949.45N 0011218.62W	MAPt
R06R	006	TF	CMM01	N	055° (054.7°)	RIGHT	-	-170	535415.81N 0010141.22W	-
R06R	007	TF	CMM02	N	145° (144.8°)	RIGHT	3000	-170	535037.42N 0005720.92W	-
R06R	008	TF	CMM03	N	239° (239.4°)	LEFT	3000	-170	534607.49N 0011008.69W	-
R06R	009	TF	EPJUG	N	205° (204.7°)	-	3500	-185	533909.43N 0011532.38W	-

LEEDS EAST RNP RWY 06 - Instrument Approach Procedure via IVGOB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R06C	001	IF	IVGOB	N	-	-	3000	-185	534142.59N 0013132.30W	IAF
R06C	002	TF	CM06I	N	055° (054.5°)	-	2200	-185	534330.36N 0012717.60W	IF / 11.0NM
R06C	003	TF	CM06F	N	055° (054.4°)	-	2200	-	534558.39N 0012127.98W	FAF / 6.7NM
R06C	004	TF	RW06	Y	055° (054.5°)	-	-	-	534949.45N 0011218.62W	MAPt
R06C	005	TF	CMM01	N	055° (054.7°)	RIGHT	-	-170	535415.81N 0010141.22W	-
R06C	006	TF	CMM02	N	145° (144.8°)	RIGHT	3000	-170	535037.42N 0005720.92W	-
R06C	007	TF	CMM03	N	239° (239.4°)	LEFT	3000	-170	534607.49N 0011008.69W	-
R06C	008	TF	EPJUG	N	205° (204.7°)	-	3500	-185	533909.43N 0011532.38W	-

CHANGE (8/23): NEW CHART.
AERO INFO DATE 30 MAY 23

Instrument Approach Procedure Coding Tables

LEEDS EAST RNP RWY 24 - Instrument Approach Procedure via IDDAH

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R24R	001	IF	IDDAH	N	-	-	3000	-185	540044.26N 0005807.98W	IAF
R24R	002	TF	CM24I	N	180° (180.0°)	RIGHT	2300	-185	535544.80N 0005807.98W	IF / 9.3NM
R24R	003	TF	CM24F	N	235° (234.8°)	-	2000	-	535350.29N 0010242.58W	FAF / 6.0NM
R24R	004	TF	RW24	Y	235° (234.8°)	-	-	-	535021.47N 0011102.25W	MAPt
R24R	005	TF	CMM07	N	235° (234.7°)	RIGHT	-	-170	534726.03N 0011759.97W	-
R24R	006	TF	CMM08	N	325° (324.6°)	RIGHT	-	-170	535111.23N 0012230.88W	-
R24R	007	TF	CMM09	N	055° (054.5°)	RIGHT	2500	-170	535410.47N 0011524.40W	-
R24R	008	TF	CMM10	N	129° (129.0°)	LEFT	3000	-170	534827.95N 0010331.35W	-
R24R	009	TF	VUSFO	N	060° (059.8°)	-	3500	-185	535232.00N 0005138.62W	-

LEEDS EAST RNP RWY 24 - Instrument Approach Procedure via VUSFO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R24L	001	IF	VUSFO	N	-	-	3500	-185	535232.00N 0005138.62W	IAF
R24L	002	TF	CM24I	N	310° (310.0°)	LEFT	2300	-185	535544.80N 0005807.98W	IF / 9.3NM
R24L	003	TF	CM24F	N	235° (234.8°)	-	2000	-	535350.29N 0010242.58W	FAF / 6.0NM
R24L	004	TF	RW24	Y	235° (234.8°)	-	-	-	535021.47N 0011102.25W	MAPt
R24L	005	TF	CMM07	N	235° (234.7°)	RIGHT	-	-170	534726.03N 0011759.97W	-
R24L	006	TF	CMM08	N	325° (324.6°)	RIGHT	-	-170	535111.23N 0012230.88W	-
R24L	007	TF	CMM09	N	055° (054.5°)	RIGHT	2500	-170	535410.47N 0011524.40W	-
R24L	008	TF	CMM10	N	129° (129.0°)	LEFT	3000	-170	534827.95N 0010331.35W	-
R24L	009	TF	VUSFO	N	060° (059.8°)	-	3500	-185	535232.00N 0005138.62W	-

CHANGE (8/23): NEW CHART.
AERO INFO DATE 30 MAY 23

EGBG — LEICESTER

EGBG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBG — LEICESTER

EGBG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 523628N Long: 0010155W Mid-point of Runway 10/28
2	Direction and distance from city	4 NM ESE of Leicester.
3	Elevation / Reference temperature / Mean Low Temperature	469 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.11°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax	LEICESTER AERO CLUB LTD. Leicester Aerodrome, Gartree Road, Leicester, LE2 2FG. 0116-2592360 0116-2592712
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGBG AD 2.3 OPERATIONAL HOURS

1	AD Administration	0800-1700 (0700-1600); and by arrangement.
2	Customs and immigration	By prior arrangement through Leicestershire Aero Club.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGBG AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL 80, W80, 100, W100, 15W50.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGBG AD 2.5 PASSENGER FACILITIES

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EGBG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGBG AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGBG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	AIRCRAFT PARK Surface: Asphalt
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGBG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGBG AD 2.10 AERODROME OBSTACLES

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EGBG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGBG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
04	039.80°	490 x 18 M	RWY surface: Asphalt	523613.00N 0010148.00W	THR 463.0 FT	
22	219.80°	490 x 18 M	RWY surface: Asphalt	523626.00N 0010132.00W	THR 467.0 FT	
06	049.20°	340 x 30 M	RWY surface: Grass	523618.00N 0010151.50W	THR 463.0 FT	
24	229.20°	340 x 30 M	RWY surface: Grass	523625.70N 0010137.70W	THR 469.0 FT	
10	096.20°	935 x 30 M	RWY surface: Asphalt	523630.00N 0010220.00W	THR 450.0 FT	
28	276.20°	935 x 30 M	RWY surface: Asphalt	523626.80N 0010130.50W	THR 467.0 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
15	149.20°	495 x 18 M	RWY surface: Asphalt	523628.00N 0010202.00W	THR 464.0 FT	
33	329.20°	495 x 18 M	RWY surface: Asphalt	523614.00N 0010149.00W	THR 463.0 FT	
16	149.90°	418 x 30 M	RWY surface: Grass	523627.00N 0010159.00W	THR 464.0 FT	
34	329.90°	418 x 30 M	RWY surface: Grass	523615.00N 0010147.00W	THR 463.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 04
						RWY 22
						RWY 06
						RWY 24
						RWY 10
						RWY 28
						RWY 15
						RWY 33
						RWY 16
						RWY 34

EGBG AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
10	935 M	935 M	935 M	935 M	
28	935 M	935 M	935 M	935 M	
15	495 M	495 M	495 M	495 M	
33	495 M	495 M	495 M	495 M	
04	490 M	490 M	490 M	490 M	
22	490 M	490 M	490 M	490 M	
16	418 M	418 M	418 M	418 M	
34	418 M	418 M	418 M	418 M	
06	340 M	340 M	340 M	340 M	
24	340 M	340 M	340 M	340 M	

EGBG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
10		Light intensity high	APAPI Left/ 3.25° 22 FT			Bi-directional Light intensity high			
28		Light intensity high	APAPI Left/ 3.25° 18 FT			Bi-directional Light intensity high			

EGBG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	EDGE: Blue edge lighting.
4	Secondary power supply/switch-over time	
5	Remarks	

EGBG AD 2.16 HELICOPTER LANDING AREA

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EGBG AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LEICESTER ATZ A circle, 2 NM radius, centred at 523628N 0010155W on longest notified runway (10/ 28)	Upper limit: 2000 FT AGL Lower limit: SFC	G	LEICESTER RADIO English	6000 FT		

EGBG AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	LEICESTER RADIO	122.130 A/G frequency. DOC 10 NM/3000 FT.			0800-1700 (0700-1600); and by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGBG AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB 0.95°E (2027)	LE	383.500 kHz	0800-1700 (0700-1600); and by arrangement.	523623N 0010206W		On AD. Range 10 NM. Normally radiates H24.

EGBG AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of aerodrome outside operational hours is strictly PPR.
b) Use of aerodrome for night flying on Tuesday and Thursday is PPR
c) Asphalt parking area on the runway is not to be used while runway 15/33 is in use. Alternative parking will be available on the grass at the side of the tower or on the hard standings to the rear of the control tower.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Grass runways and taxiway are subject to waterlogging, especially in winter, and may be closed without notice for long periods.
b) Helicopter hover training takes place on the grass between the grass runways, and on the grass runways when not in use.
c) High ground 727 ft amsl, 061°T, 3.9 nm from ARP.
d) Church 580 ft amsl, 049°T, 1.5 nm from ARP.

5 HELICOPTER OPERATIONS

a) On the H in the centre of the grass triangle.
b) No run on landings are to be made on the grass runways.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGBG AD 2.21 NOISE ABATEMENT PROCEDURES

a) Avoid overflying local villages.

EGBG AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Fixed wing circuits left hand on Runways 10, 33, 22, 34 and 24. Fixed wing circuits right hand on Runways 28, 15, 04, 16 and 06.
b) The standard overhead join is preferred for fixed wing.
c) Fixed wing circuits will be at 1000 FT QFE.
d) Helicopter circuits are to the left on runways 28, 15, 04, 16 and 06. Helicopter Circuits are to the right on runways 10, 33, 22, 34 and 24.

e) Helicopter circuits will be at 700 ft QFE.
f) The standard fix wing join is overhead. Aircraft should not descend below 1200 FT QFE on the deadside due to the helicopter circuit below at 700 FT QFE. Helicopters will join their circuit downwind.

EGBG AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBG AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBG-2-1

EGBG AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

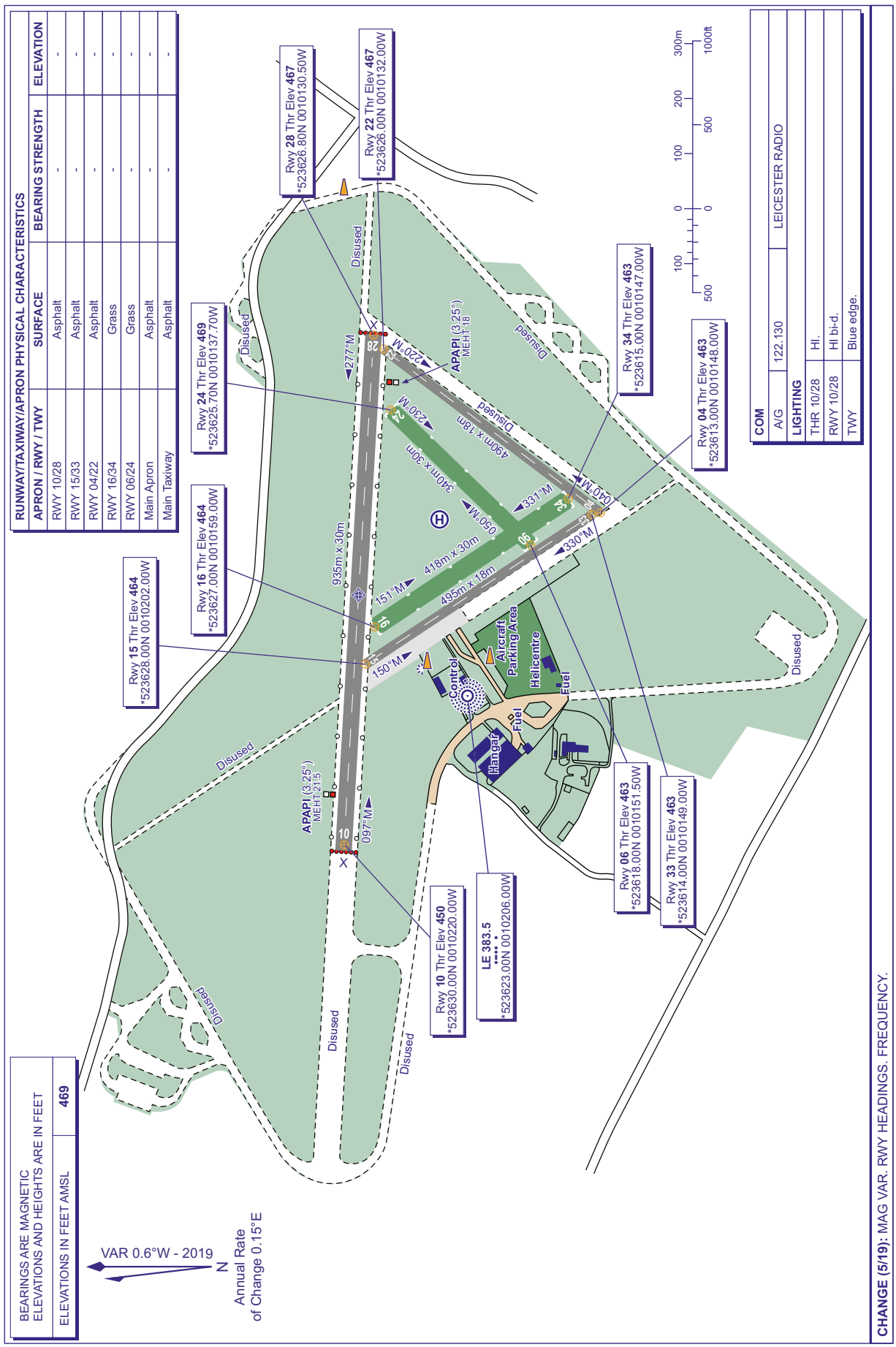
Not applicable

LEICESTER EGBG

AD ELEV 469FT

ARP 523628N 0010155W

AERODROME CHART - ICAO



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EGET — LERWICK/TINGWALL

EGET AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGET — LERWICK/TINGWALL

EGET AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 601131N Long: 0011437W Mid-point of Runway 01/19.
2	Direction and distance from city	4 NM NW of Lerwick.
3	Elevation / Reference temperature / Mean Low Temperature	45 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	162 FT
5	Magnetic Variation / Annual Change	0.17°E (2027) / 0.22°E
6	AD Administration Address Telephone E-mail address Web address	SHETLAND ISLANDS COUNCIL. Tingwall Airport, Gott, Shetland, ZE2 9XJ. 01595-840306 (Visual Control Room) 01595-744481 (Duty FISO) 01806-244264 (Accountable Manager) dutyfisotingwall@shetland.gov.uk https://www.shetland.gov.uk/transport/tingwall-airport
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGET AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri: 0900-1700 (0800-1600) and by arrangement; Mon (Feb-Oct): 0730-1700 (0630-1600) and by arrangement; Sat (May-Oct): (1000-1230) Summer only and by arrangement.
2	Customs and immigration	By arrangement with Duty FISO, minimum 24 hours notice.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	AVGAS 100LL - As AD Hours and by arrangement. JET A1 - First fuel uplift from: Mon-Fri 0930 (0830) and by arrangement; Sat 1030 (summer only) and by arrangement.
9	Handling	Available upon request.
10	Security	
11	De-icing	
12	Remarks	Tingwall Aerodrome is PPR, minimum of 24 hours notice via phone call or email to Duty FISO.

EGET AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Limited.
2	Fuel and oil types	AVTUR Jet A1, AVGAS 100LL
3	Fuelling facilities/capacity	AVGAS 100LL - up to 28000 LT, limited supply of AVTUR Jet A1 - maximum 2000 LT - check availability prior to departing base airport.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Very limited - strictly by prior arrangement.
6	Repair facilities for visiting aircraft	Limited, seek advice of Duty FISO.
7	Remarks	Most credit/debit cards accepted (except Maestro cards).

EGET AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	
3	Transportation	
4	Medical facilities	
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	Passenger facilities are limited at the Aerodrome. Pilots intending to visit Tingwall are advised to look at www.shetland.org for details of accommodation, restaurants, hire cars, taxis etc.

EGET AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission.
2	Rescue equipment	CAT 3 Fire Appliance with CAT 2 Fire Appliance as reserve.
3	Capability for removal of disabled aircraft	Nil at Aerodrome - suitable equipment available.
4	Remarks	

EGET AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Limited mechanical snow clearing available by prior arrangement.
2	Clearance priorities	
3	Remarks	Where NOTAM, SNOWTAM or TAF indicates that weather or contamination may be an issue, intending pilots may request further information by contacting the Duty FISO on 01595-744481.

EGET AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	Apron leads directly on to runway, with holds at Alpha and Bravo

EGET AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Limited apron space available. Parking provided on a 'first come, first served' basis. Self parking under direction of FISO. Semi-circular mark on apron to provide BN2B access to AVGAS fuelling Station. Holds at Alpha and Bravo. Avoid parking near landside access gate outside opening hours, in case of emergency access required by ambulance/air ambulance personnel. WDI: 601132.43N 0011441.08W (LGTD).

EGET AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGET2108) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	601116.03N 0011441.56W	59 FT		No	
(EGET2101) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	601115.74N 0011446.77W	65 FT		No	
(EGET2105) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	601115.67N 0011444.08W	62 FT		No	
(EGET2111) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	601115.57N 0011442.89W	63 FT		No	
(EGET2103) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	601115.55N 0011445.83W	64 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGET2126)	CAIRN	601222.54N 0011331.33W	316 FT		No	
(EGET2172)	EP	601207.14N 0011616.18W	467 FT		No	
(EGET2171)	EP	601206.43N 0011617.63W	478 FT		No	
(EGET2174)	EP	601156.24N 0011611.17W	361 FT		No	
(EGET2173)	EP	601143.53N 0011616.39W	378 FT		No	
(EGET2410)	BUILDING	601130.69N 0011505.60W	135 FT		No	
(EGET2413)	FLOODLIGHT	601119.84N 0011447.08W	67 FT		No	
(EGET2411)	BUILDING AERIAL	601119.75N 0011446.47W	66 FT		No	
(EGET2414)	MET MAST	601119.31N 0011444.74W	48 FT		No	
(EGET2412)	BUILDING AERIAL	601118.61N 0011447.01W	65 FT		No	
(EGET2140)	EP	601044.49N 0011324.90W	273 FT		No	
(EGET2142)	EP	601042.14N 0011323.78W	274 FT		No	
(EGET2143)	EP	601039.82N 0011322.80W	273 FT		No	
(EGET2145)	EP	601037.52N 0011321.80W	276 FT		No	
(EGET2146)	EP	601035.66N 0011320.99W	286 FT		No	
(EGET2147)	EP	601035.37N 0011320.91W	287 FT		No	
(EGET2150)	EP	601033.88N 0011329.44W	273 FT		No	
(EGET2148)	EP	601032.72N 0011320.48W	277 FT		No	
(EGET2151)	EP	601030.63N 0011327.75W	295 FT		No	
(EGET2152)	EP	601028.28N 0011326.65W	314 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGET2300)	WIND TURBINE	600954.24N 0011428.25W	616 FT		Yes Red	
(EGET2297)	WIND TURBINE	600952.32N 0011402.54W	665 FT		Yes Red	
(EGET2299)	WIND TURBINE	600949.50N 0011416.59W	652 FT		No	
(EGET2301)	WIND TURBINE	600946.90N 0011437.10W	589 FT		Yes Red	
(EGET2298)	WIND TURBINE	600942.98N 0011409.73W	693 FT		No	

EGET AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	F214 UK Spot wind forecast chart and F215 UK low-level forecast chart.
8	Supplementary equipment available for providing information	Internet access to MET Office.
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Unofficial MET observations provided by AFISO on request during AD hours.

EGET AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
01	013.19°	810 x 18 M	RWY surface: Asphalt	601120.23N 0011442.00W 162.0 FT	THR 43.0 FT	
19	193.19°	810 x 18 M	RWY surface: Asphalt	601143.36N 0011431.11W 161.9 FT	THR 20.1 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 01. Threshold displaced by 19 M.
						RWY 19

EGET AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
01	764 M	764 M	764 M	735 M	
19	764 M	764 M	764 M	764 M	

EGET AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
01	Omni-directional RAI at 500 M, 1000 M, 1500 M. Light intensity medium	Light intensity low Green wingbars	APAPI Left/4° 18 FT			Elevated omni-directional White Light intensity low	Red		
19		Light intensity low Green	APAPI Left/4° 18 FT			Elevated omni-directional White Light intensity low	Red		

EGET AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 601132.71N 0011440.55W (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGET AD 2.16 HELICOPTER LANDING AREA

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EGET AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LERWICK/TINGWALL ATZ A circle, 2 NM radius, centred at 601131N 0011437W on longest notified runway (01/ 19)	Upper limit: 2000 FT AGL Lower limit: SFC	G	TINGWALL INFORMATION English			

EGET AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	TINGWALL INFORMATION	125.305 DOC 20 NM/5000 FT.			Mon-Fri: 0900-1700 (0800-1600) and by arrangement; Mon (Feb-Oct): 0730-1700 (0630-1600) and by arrangement; Sat (May-Oct): (1000-1230) Summer only and by arrangement.	
OTHER	TINGWALL RADIO	125.305 DOC 20 NM/5000 FT.			Promulgated by NOTAM.	Only through unavailability of AFIS.
OTHER	TINGWALL FIRE	121.605			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGET AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGET AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of Aerodrome is subject to Terms and Conditions of Use. Pilots intending to use Lerwick/Tingwall aerodrome must familiarise themselves and abide by the Terms and Conditions of use. Terms and Conditions can be found on Tingwall Airport website.
b) Prior Permission Required. Contact the Duty AFISO for further information.
c) Pilots must contact Tingwall Information to request engine start up.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Tingwall Airport has an ATZ, but all airspace is uncontrolled. Tingwall Airport is PPR, with a Flight Information Service only. Strong winds and turbulence may be expected at Tingwall Airport.
b) Pilots are advised to exercise caution with regards to wind shear emanating from the aerodrome and neighbouring buildings immediately to the west of the threshold on Runway 01, or on take-off from Runway 19. This is most evident when wind directions are approximately 220 degrees through 350 degrees.
c) Birds, including geese, gulls and corvids are common. The Visual Control Room has restricted visibility from approximately 210 degrees through 300 degrees, as such, FISOs may be unaware of any bird activity in this zone.
d) Five large wind turbines are sited to the southeast of Tingwall Airport, on Burradale Hill.
e) Hill of Linkster, 2300 M northwest of ARP at 276 FT AMSL.
f) Hill of Griesta, 1300 M southwest of Runway 01 Threshold at 368 FT AMSL.
g) Ward of Laxfirth, 1600 M northeast of Runway 19 Threshold at 317 FT AMSL.
h) Hill of Herrislea, 1700 M east and parallel to runway at 447 FT AMSL.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Where the surface wind is at 90° to the runway, Runway 19 shall be reported as the runway in use (due to the enhanced Visual Control Room visibility).

7 TRAINING

Not applicable

EGET AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGET AD 2.22 FLIGHT PROCEDURES

Not applicable

EGET AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGET AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGET-2-1

EGET AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 601131N 0011437W

AD ELEV 45FT

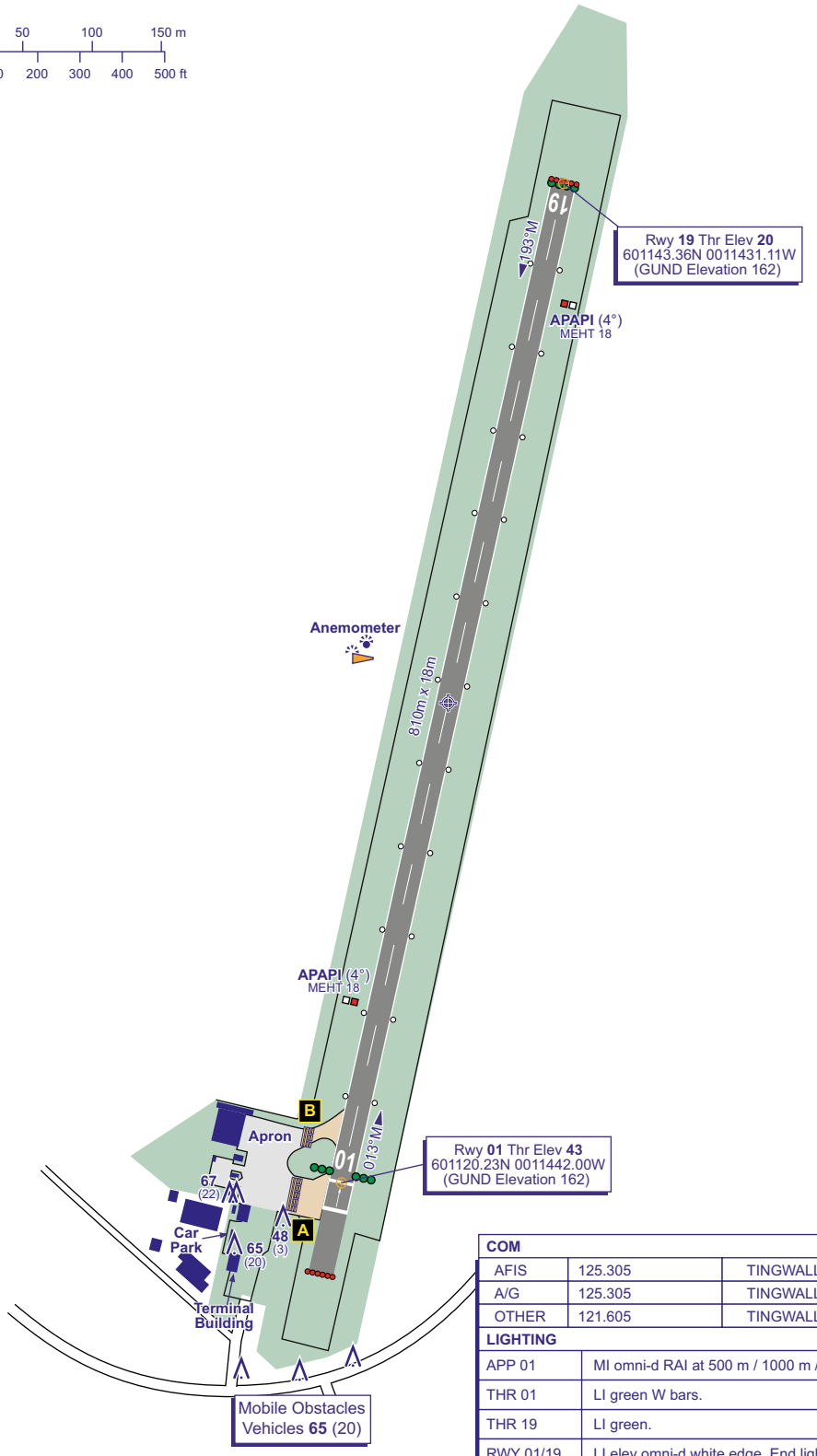
LERWICK/TINGWALL
EGET

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**67** (22)

50 0 50 100 150 m
100 0 100 200 300 400 500 ft

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
RWY 01/19	Asphalt	-	-
Main Apron	Asphalt	-	-
Main Taxiway	Asphalt	-	-

VAR 0.2°E - 2027
N
Annual Rate of Change 0.22°E



COM		
AFIS	125.305	TINGWALL INFO
A/G	125.305	TINGWALL RADIO
OTHER	121.605	TINGWALL FIRE

LIGHTING	
APP 01	MI omni-d RAI at 500 m / 1000 m / 1500 m THR.
THR 01	LI green W bars.
THR 19	LI green.
RWY 01/19	LI elev omni-d white edge. End lights red.

CHANGE (10/25): RUNWAY DESIGNATORS. EDGE MARKINGS. DISPLACED THR 01 MARKING. MAG INFO.

AERO INFO DATE 17 JUL 25

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EGGP — LIVERPOOL

EGGP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGGP — LIVERPOOL

EGGP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 532001N Long: 0025059W Centre of Runway 09/27.
2	Direction and distance from city	6.5 NM SE of Liverpool.
3	Elevation / Reference temperature / Mean Low Temperature	81 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	171 FT
5	Magnetic Variation / Annual Change	0.64°W (2022) / 0.21°E
6	AD Administration Address Telephone SITA E-mail address Web address	LIVERPOOL AIRPORT LIMITED Liverpool (John Lennon) Airport , Liverpool L24 1YD. 0151-907 1541 (1542) (ATC) 0151-907 1551 (Airport Operations Centre/PPR) LPLAPXH airportcontrol@liverpoolairport.com (Airport Operations Centre/PPR) www.liverpoolairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All telephone calls to ATC will be recorded.

EGGP AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24 (Self Briefing via AIS Internet site www.nats.aero/ais).
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24 (Self Briefing via MET Office Internet site www.metoffice.gov.uk).
7	ATS	H24
8	Fuelling	H24
9	Handling	H24 On request via handling agent.
10	Security	H24 Central search 0400-2200 (0300-2100), on request via handling agent outside these times. Airfield 24 HR.
11	De-icing	H24
12	Remarks	

EGGP AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Normal. By arrangement. Nearest railway siding: Garston 2.1 NM.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL Oils by arrangement with resident operators.
3	Fuelling facilities/capacity	Approximately 500,000 LT AVTUR and AVGAS
4	De-icing facilities	H24. Centralised de-icing is available subject to prior arrangement with the Airport Authority. Request should be made via handling agent.
5	Hangar space for visiting aircraft	Available by prior arrangement through: Airport Operations Centre; Tel: 0151-907 1551; Ravenair/Liverpool Aviation Services; Tel: 0151-486 6161, Mobile: 0771-212 9333 (24 HR ops number), Email: ops@ravenair.co.uk.
6	Repair facilities for visiting aircraft	Major and Minor, by arrangement.

7	Remarks	Oxygen and related servicing: By arrangement with resident operators. Fuel supplied by: Ravenair/Liverpool Aviation Services Ltd. Payment by cash, cheque or credit card. Tel: 0151-486 6161; Mobile: 0771-212 9333 (24 HR ops number); Website: www.liverpoolhandling.co.uk. Menzies Aviation. Payment by cash, cheque, carnet, 3rd party cards by prior arrangement or credit card. Tel: 0151-486 7084, Fax: 0151-486 7720. Stone ballast will not be accepted. PPR and ground handling are mandatory for all visiting aircraft. PPR requests must be made via a handling agent and to airportcontrol@liverpoolairport.com. Handling agencies are: Ravenair/Liverpool Aviation Services Ltd. Tel: 0151-486 6161; Mobile: 0771-212 9333 (24 HR ops number); Website: www.liverpoolhandling.co.uk; Channel: 131.755, Callsign: LAS Liverpool. Swissport: Tel: 0151-486 5421, Fax: 0151-448 1427, SITA: LPLKKXH Frequency: 130.600 MHz, Callsign: Swissport Liverpool. DHL: Tel: 07855189074, SITA: LPLSMXH / LPLAPXH / exylpl@airportlabs.com, Channel: 131.890, Callsign: DHL Liverpool Ops. Wynne Aviation Services Ltd: Tel: 0151-486 1919, Mobile: 0796-492 1223, Email: info@wynneaviation.co.uk, Website: www.wynneaviation.co.uk. XLR Executive Jet Centres: Tel: 0151-317 9325, Mobile: 0797-383 7355, Email: jetcentre@xlrliverpool.com.

EGGP AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel within 50 M of Terminal and other hotels in the vicinity.
2	Restaurants	Yes.
3	Transportation	Buses, taxis and car hire. Railway stations at Liverpool South Parkway (1.7 NM), Runcorn (4.5 NM) and Liverpool Lime Street (6.5 NM).
4	Medical facilities	Full Medical Response H24 - First aid only. Defibrillators available.
5	Bank and Post Office	ATMs and Bureau de Change in terminal.
6	Tourist Office	
7	Remarks	

EGGP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8 and 9 available on request by prior notice.
2	Rescue equipment	Fire Category 7 - 1 x Command vehicle 4x4 Nissan Navarro, 1 x Oshkosh Striker 6x6 Major Foam Tender (12,000 litres water, 1680 litres foam, 227 KG Dry Powder & 10 KG Co2), 1 x Cobra 6x6 Major Foam Tender (10,000 litres water, 1300 litres foam, 200 KG Dry Powder & 10 KG Co2). Spare – 2 x Cobra 6x6 Major Foam Tender (22,000 litres water, 3000 litres foam, 400 KG Dry Powder & 10 KG Co2).
3	Capability for removal of disabled aircraft	Aircraft recovery services, including towing, removal, and necessary repairs, are available upon request for operators. In the event of an aircraft becoming disabled on the airfield, LJLA will coordinate specialised external support to promptly facilitate the movement of the aircraft. Contact: Tel: 0151-907 1551 (Airport Operations Centre).
4	Remarks	

EGGP AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	During snowfall, the aerodrome may be declared SNOCLO for runway clearance.
3	Remarks	Latest information regarding snow state/clearance programme, Tel: 0151-907 1551 (Airport Operations Centre).

EGGP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete PCN 92/R/B/W/T
2	Taxiway width, surface and strength	Taxiway A: 23 M Surface: Asphalt PCN 77/F/C/W/T Taxiway C: 23 M Surface: Asphalt PCN 77/F/C/W/T Taxiway D: 23 M Surface: Asphalt PCN 77/F/C/W/T Taxiway E: 23 M Surface: Asphalt PCN 77/F/C/W/T Taxiway F: 23 M Surface: Asphalt PCN 77/F/C/W/T Taxiway G: 23 M Surface: Asphalt PCN 77/F/C/W/T Taxiway L: 23 M Surface: Asphalt PCN 77/F/C/W/T Taxiway LINK K: 10.5 M Surface: Asphalt Maximum Weight 5700 KG
3	Altimeter checkpoint location and elevation	Apron 77 FT
4	VOR checkpoints	
5	INS checkpoints	See Aerodrome Parking/Docking Chart at AD 2-EGGP-2-2.
6	Remarks	

EGGP AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Main Apron access is via Uniform/Victor/Whisky. Stands 1-14, 32-41 are taxi in/ push-back. On occasion aircraft can be parked for self manoeuvring. Stands 1-6 are fitted with AGNIS Visual Docking Guidance System (VDGS), all other stands on the Main Apron require the aircraft to be parked under the instruction of the Marshaller. Stand 14A is a self-manoeuvring stand for Code E aircraft. Individual airline operators are advised to contact the Airport Operations Centre (Tel: 0151-907 1551) to discuss the 'exit manoeuvring requirements' from the stand, which involves a nose wheel turning angle of 55°. Eastern Apron: Access is via Taxiway Tango. Stands 51-56 are fitted with AGNIS and PAPA VDGS. Stands 51 and 54 can accommodate Code C aircraft. Stands 52 and 55 can accommodate Code D aircraft. The activation of the AGNIS is an indication to the Captain that the stand has been inspected and is clear of FOD and any obstacles. If the AGNIS is not switched on, the aircraft should hold its position on the taxilane until the AGNIS has been activated, or a marshaller is present. For self manoeuvring aircraft in any doubt aircraft captains should ask for Marshaller guidance.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: Runway designation markings. Runway threshold markings and HI lighting. Runway 09 threshold permanently displaced. Runway aiming point and Touchdown zone markings. Runway 27 HI touch down zone lighting. Runway centre-line markings and HI lighting spaced for operations in RVR below 550 M. Runway edge markings and HI lighting. Runway End HI lighting. Stopway HI lighting. Taxiway marking aid(s): All runway holding positions have runway guard lights, stopbars and illuminated hold point signs. Enhanced taxiway centre-line markings are provided at A1, C, D, E, F and G. Taxiway centre-lines have markings and HI lighting spaced for operations in RVR below 550 M. Taxiway edge markings are provided only at certain locations eg: internal radii of acute taxiway junctions. Retro reflective blue markers are installed in similar locations and on taxiways T, U, V and W.
3	Stop bars and runway guard lights (if any)	At Holding Points A1, A2, C, D, E, F, G and W: HI uni-directional switchable Red. At Holding Points A3, A8, K, L, T, U and V: HI bi-directional switchable Red. Holding Points A2, A3, A8, K, L, T, U, V and W: illuminated only during Low Visibility Operations.
4	Other runway protection measures	
5	Remarks	Intermediate apron holding positions on Taxiway Uniform (Uniform 2), Taxiway Victor (Victor 2) and Taxiway Whiskey (Whiskey 2), are provided to hold aircraft when necessary, prior to parking on stand. The taxiway strip to the east of Holding Point Kilo is limited to 42 M on the north side of the taxiway.

EGGP AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGGP1519) 27/APPROACH 09/ TAKE-OFF	TREE	532007.75N 0024917.88W	118 FT	49 FT	No	
(EGGP1534) 27/APPROACH 09/ TAKE-OFF	TREE	532006.85N 0024917.06W	114 FT	44 FT	No	
(EGGP1514) 27/APPROACH 09/ TAKE-OFF	TREE	532004.88N 0024918.29W	130 FT	68 FT	No	
(EGGP1334) 27/APPROACH 09/ TAKE-OFF	APPROACH LIGHT	532004.79N 0024947.93W	86 FT	10 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGGP1329) 27/APPROACH 09/ TAKE-OFF	APPROACH LIGHT	532004.73N 0024949.28W	84 FT	10 FT	No	
(EGGP1520) 27/APPROACH 09/ TAKE-OFF	TREE	532004.62N 0024917.58W	129 FT	70 FT	No	
(EGGP1515) 27/APPROACH 09/ TAKE-OFF	TREE	532004.63N 0024917.77W	129 FT	73 FT	No	
(EGGP1335) 27/APPROACH 09/ TAKE-OFF	APPROACH LIGHT	532004.35N 0024947.87W	85 FT	11 FT	No	
(EGGP1330) 27/APPROACH 09/ TAKE-OFF	APPROACH LIGHT	532004.28N 0024949.22W	84 FT	11 FT	No	
(EGGP1528) 27/APPROACH 09/ TAKE-OFF	TREE	532004.25N 0024917.21W	128 FT	64 FT	No	
(EGGP1526) 27/APPROACH 09/ TAKE-OFF	TREE	532004.05N 0024917.55W	126 FT	66 FT	No	
(EGGP1337) 27/APPROACH 09/ TAKE-OFF	APPROACH LIGHT	532003.91N 0024947.81W	85 FT	12 FT	No	
(EGGP1808) 27/APPROACH 09/ TAKE-OFF	TREE	532003.85N 0024930.44W	108 FT	37 FT	No	
(EGGP1331) 27/APPROACH 09/ TAKE-OFF	APPROACH LIGHT	532003.84N 0024949.16W	84 FT	12 FT	No	
(EGGP1804) 27/APPROACH 09/ TAKE-OFF	TREE	532003.64N 0024939.26W	95 FT	26 FT	No	
(EGGP1487) 27/APPROACH 09/ TAKE-OFF	TREE	532002.40N 0024918.73W	122 FT	60 FT	No	
(EGGP1518) 27/APPROACH 09/ TAKE-OFF	TREE	532001.83N 0024917.84W	119 FT	70 FT	No	
(EGGP1876) 27/APPROACH	TREE	532000.29N 0024937.23W	122 FT	53 FT	No	
(EGGP1375) 09/TAKE-OFF	TREE	531957.85N 0024940.73W	114 FT	40 FT	No	
(EGGP1398) 09/TAKE-OFF	TREE	531957.81N 0024938.42W	114 FT	52 FT	No	
(EGGP1387) 09/TAKE-OFF	TREE	531957.76N 0024939.08W	118 FT	56 FT	No	
(EGGP1407) 09/TAKE-OFF	TREE	531957.50N 0024938.08W	129 FT	57 FT	No	
(EGGP1400) 09/TAKE-OFF	TREE	531957.41N 0024938.32W	116 FT	62 FT	No	
(EGGP1383) 09/TAKE-OFF	TREE	531957.40N 0024939.44W	127 FT	66 FT	No	
(EGGP1408) 09/TAKE-OFF	TREE	531957.27N 0024938.15W	129 FT	57 FT	No	
(EGGP1404) 09/TAKE-OFF	TREE	531957.26N 0024938.24W	118 FT	62 FT	No	
(EGGP1418) 09/TAKE-OFF	TREE	531957.12N 0024937.27W	125 FT	61 FT	No	
(EGGP1419) 09/TAKE-OFF	TREE	531957.01N 0024937.24W	119 FT	61 FT	No	
(EGGP1201) 09/APPROACH	TREE	531953.94N 0025205.88W	68 FT	17 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGGP1559)	PYLON	532403.10N 0024737.24W	316 FT	191 FT	No	
(EGGP1848)	WATER_TOWER	532248.39N 0025227.61W	346 FT	62 FT	No	
(EGGP1153)	BUILDING	532231.56N 0025243.55W	311 FT	119 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGGP1156)	WOOD	532224.43N 0025240.38W	295 FT	106 FT	No	
(EGGP1142)	MAST	532224.07N 0025305.24W	376 FT	155 FT	Yes Solid Red	
(EGGP1202)	WOOD	532218.07N 0025207.59W	349 FT	124 FT	No	
(EGGP1210)	TREES	532158.59N 0025152.85W	250 FT	55 FT	No	
(EGGP1662)	CHIMNEY	532118.04N 0025057.62W	231 FT	131 FT	Yes Solid Red	
(EGGP1661)	CHIMNEY	532117.37N 0025057.96W	230 FT	131 FT	Yes Solid Red	
(EGGP1664)	CHIMNEY	532116.74N 0025052.46W	237 FT	131 FT	Yes Solid Red	
(EGGP1666)	BUILDING	532116.32N 0025045.14W	210 FT	131 FT	No	
(EGGP1663)	CHIMNEY	532115.97N 0025053.07W	249 FT	131 FT	Yes Solid Red	
(EGGP1302)	WATER_TOWER	532112.59N 0025008.41W	207 FT	129 FT	No	
(EGGP1242)	MAST	532105.82N 0025115.21W	252 FT	141 FT	No	
(EGGP1137)	MAST	532100.66N 0025415.65W	263 FT	221 FT	Yes Solid Red	
(EGGP1595)	BRIDGE	532045.19N 0024418.23W	273 FT	269 FT	No	
(EGGP1230)	SPIRE	532038.60N 0025129.06W	188 FT	102 FT	No	
(EGGP1598)	SPIRE	532037.28N 0024412.46W	180 FT	147 FT	No	
(EGGP1613)	FLOODLIGHT	532024.57N 0024326.17W	210 FT	107 FT	No	
(EGGP1610)	TREE	532023.07N 0024329.91W	159 FT	52 FT	No	
(EGGP1608)	MAST	532022.73N 0024330.03W	168 FT	61 FT	No	
(EGGP1607)	NDB	532022.55N 0024330.47W	166 FT	60 FT	No	
(EGGP1239)	BUILDING	532019.25N 0025116.29W	202 FT	118 FT	No	
(EGGP1240)	BUILDING	532017.29N 0025116.03W	205 FT	121 FT	Yes Solid Red	
(EGGP1241)	LIGHT	532012.92N 0025114.31W	181 FT	100 FT	No	
(EGGP1124)	SPIRE	531958.50N 0025843.40W	236 FT	138 FT	No	
(EGGP1583)	CHIMNEY	531950.09N 0024516.34W	393 FT	349 FT	Yes Solid Red	
(EGGP1258)	ATC	531947.89N 0025051.42W	196 FT	135 FT	Yes Solid Red	
(EGGP1131)	WOOD	531945.11N 0025744.76W	197 FT	72 FT	No	
(EGGP1592)	MAST	531920.88N 0024429.52W	356 FT	116 FT	No	
(EGGP1599)	PYLON	531918.33N 0024402.48W	347 FT	107 FT	No	
(EGGP1580)	CHIMNEY	531914.79N 0024516.54W	390 FT	354 FT	No	
(EGGP1588)	WIND TURBINE	531828.55N 0024442.05W	426 FT	410 FT	No	
(EGGP1584)	WIND TURBINE	531822.04N 0024453.45W	426 FT	410 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGGP1591)	WIND TURBINE	531810.06N 0024428.44W	426 FT	410 FT	No	
(EGGP1587)	WIND TURBINE	531805.57N 0024443.27W	426 FT	410 FT	No	
(EGGP1594)	WIND TURBINE	531757.91N 0024421.21W	426 FT	410 FT	No	
(EGGP1586)	WIND TURBINE	531755.07N 0024445.20W	426 FT	410 FT	No	
(EGGP1571)	WIND TURBINE	531745.91N 0024637.12W	426 FT	410 FT	No	
(EGGP1569)	WIND TURBINE	531740.65N 0024649.55W	426 FT	410 FT	No	
(EGGP1574)	WIND TURBINE	531735.71N 0024618.57W	426 FT	410 FT	No	
(EGGP1566)	WIND TURBINE	531735.49N 0024702.42W	426 FT	410 FT	No	
(EGGP1563)	WIND TURBINE	531730.77N 0024716.11W	426 FT	410 FT	No	
(EGGP1572)	WIND TURBINE	531730.59N 0024634.03W	426 FT	410 FT	No	
(EGGP1570)	WIND TURBINE	531723.97N 0024648.11W	426 FT	410 FT	No	
(EGGP1561)	WIND TURBINE	531723.44N 0024724.13W	426 FT	410 FT	No	
(EGGP1575)	WIND TURBINE	531720.00N 0024606.62W	426 FT	410 FT	No	
(EGGP1573)	WIND TURBINE	531719.91N 0024625.14W	426 FT	410 FT	No	
(EGGP1567)	WIND TURBINE	531718.12N 0024700.81W	426 FT	410 FT	No	
(EGGP1564)	WIND TURBINE	531712.85N 0024715.08W	426 FT	410 FT	No	
(EGGP1568)	WIND TURBINE	531707.48N 0024650.19W	426 FT	410 FT	No	
(EGGP1251)	CHIMNEY	531635.31N 0025051.12W	414 FT	407 FT	No	
(EGGP1276)	CHIMNEY	531623.15N 0025024.32W	394 FT	375 FT	No	
(EGGP1256)	CHIMNEY	531622.84N 0025047.98W	418 FT	408 FT	No	
(EGGP1298)	CHIMNEY	531619.87N 0025007.17W	436 FT	400 FT	No	
(EGGP1283)	CHIMNEY	531614.60N 0025017.59W	526 FT	513 FT	No	
(EGGP1274)	CHIMNEY	531604.97N 0025030.55W	490 FT	467 FT	No	

EGGP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 Hours
4	Trend forecast Interval of issuance	Not available.
5	Briefing/consultation provided	Self briefing / Liverpool ATIS Freq. 124.330 MHz. Met Office Weather Desk (H24) Tel: 01392-885 680. Met Office Website: www.metoffice.gov.uk.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.

7	Charts and other information available for briefing or consultation	Available on the Met Office Website, www.metoffice.gov.uk/aviation/ga-briefing-services.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	LIVERPOOL
10	Additional information (limitation of service, etc.)	Unverified AUTO METARs may be published in night periods.

EGGP AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
09	085.60°	2286 x 46 M	RWY surface: Asphalt, Grooved PCN 77/F/C/W/T	531958.39N 0025157.61W 171.0 FT	THR 59.6 FT TDZ 63.8 FT	RWY 09 0.25% Up RWY 27 0.25% Down
27	265.62°	2286 x 46 M	RWY surface: Asphalt, Grooved PCN 77/F/C/W/T SWY surface: Asphalt PCN 77/F/C/W/T	532003.90N 0024957.76W 170.8 FT	THR 77.8 FT TDZ 79.9 FT	RWY 09 0.25% Up RWY 27 0.25% Down

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	201 x 150 M				1860 x 120 M	RWY 09 Landing threshold displaced by 61 M. Strip Dimensions: 2283 x 280 M
7 x 46 M	1143 x 150 M				1860 x 120 M	RWY 27 Strip Dimensions: 2412 x 280 M

EGGP AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	2163 M	2364 M	2163 M	2102 M	
27	2286 M	3429 M	2292 M	2286 M	
09	1990 M	2191 M	1990 M		Take-off from Intersection with Hold Delta.
27	2066 M	3099 M	2072 M		Take-off from Intersection with Hold Golf.

EGGP AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Coded centre-line with five crossbars. Two consecutive centre-line lights missing from Runway 09 approach lights, between second and third crossbars, 360 M from threshold. 914 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3° 60 FT 340 M		Bi-directional Colour coded 15 M spacing Light intensity high	Bi-directional 60 M spacing with LI omni-directional component White Light intensity high	Red Light intensity high		
27	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3° 59 FT 364 M	Light intensity high 915 M	Bi-directional Colour coded 15 M spacing Light intensity high	Bi-directional 60 M spacing with LI omni-directional component White Light intensity high	Red Light intensity high		

EGGP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 27: 531959.14N 0025014.18W (LGTD) - 09: 531955.31N 0025141.53W (LGTD).
3	TWY edge and centre line lighting	CL: HI Green bi-directional centre-line on Taxiway Alpha and Taxiways C, D, E, F, G, K, T, U, V, W. EDGE: HI omni-directional blue edge lights, lead from Holding point Lima to Taxiway Alpha.
4	Secondary power supply/switch-over time	For CAT II/III operations changeover from standby power to mains takes place in less than 1 second. During visual or non-precision operations changeover from mains to standby diesel takes maximum 15 seconds in event of full mains failure.
5	Remarks	Obstacle lighting. Apron floodlights. Illuminated wind direction indicators.

EGGP AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	

7	RMK	Available for use by Liverpool John Lennon Airport based helicopters only. Parts of the manoeuvring area can be used for take-offs and landings as instructed by ATC. Thresholds of the operational runways are designated as aiming points.

EGGP AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LIVERPOOL CTR 533011N 0024123W - 532708N 0023744W - 531130N 0023744W - 531427N 0030140W - 531924N 0030735W - 532331N 0030804W - 532817N 0025719W - 533011N 0024123W	Upper limit: 2500 FT ALT Lower limit: SFC	D	LIVERPOOL APPROACH English	5000 FT		
LIVERPOOL ATZ A circle, 2.5 NM radius, centred at 532001N 0025059W on longest notified runway (09/27)	Upper limit: 2000 FT AGL Lower limit: SFC	D	LIVERPOOL APPROACH English	5000 FT		

EGGP AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	LIVERPOOL APPROACH	119.855 DOC 40 NM/ 10,000 FT.			H24	ATZ hours coincident with Approach hours.
TWR	LIVERPOOL GROUND	121.955 Initial call for start or taxi clearance should be made to Liverpool Tower on 126.355 MHz unless notified by ATIS broadcast that Liverpool Ground is in operation. Use on the ground within the aerodrome boundary.			As directed by ATC.	
	LIVERPOOL TOWER	126.355 DOC 25 NM/4,000 FT.			H24	
RADAR	LIVERPOOL RADAR	118.455 DOC 25 NM/ 10,000 FT.			As directed by ATC.	10 cm Approach Radar.
		119.855 DOC 40 NM/ 10,000 FT.			H24	
ATIS	LIVERPOOL INFORMATION	124.330 DOC 60 NM/ 20,000 FT.			H24	
OTHER	LIVERPOOL FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	LIVERPOOL EMERGENCY	121.500 Emergency Frequency			O/R	

EGGP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.26°E (2027)	ILVR	111.750 MHz	HO	532004.64N 0024941.59W		(RWY 09)
ILS/GP	ILVR	333.350 MHz	HO	531955.23N 0025141.53W		3° ILS Ref Datum Hgt 54 FT.
ILS/LOC III 0.24°E (2027)	ILQ	111.750 MHz	HO	531957.65N 0025213.62W		(RWY 27)
ILS/GP	ILQ	333.350 MHz	HO	531959.06N 0025014.21W		3° ILS Ref Datum Hgt 54 FT.
NDB 0.35°E (2027)	WHI	368.500 kHz	H24	531105.53N 0023723.06W		RNAV Substitution Only. Range 25 NM.
DME	ILQ	54Y 111.750 MHz	HO	531956.86N 0025057.16W	88 FT	(RWY 27) On AD. DME freq paired with ILS I-LQ and I-LVR. Zero range is indicated at THR of Runway 09 and 27.
DME	ILVR	54Y 111.750 MHz	HO	531956.86N 0025057.16W	88 FT	(RWY 09) On AD. DME freq paired with ILS I-LQ and I-LVR. Zero range is indicated at THR of Runway 09 and 27.
NDB (L) 0.29°E (2027)	LPL	349.500 kHz	H24	532022.55N 0024330.47W		Range 25 NM. NDB needle swings exceeding +/-5 degrees noted during the approach procedure to Runway 27 between 6 NM DME and 8 NM DME.
VOR/DME 0.69°E (2027) 0.4°E (2025)	TNT	104X 115.700 MHz	H24	530314.23N 0014011.90W	994 FT	RNAV substitution only. VOR DOC: 20 NM/50,000 FT (40 NM/ 50,000 FT in Sector R100-205). DME DOC: 80 NM/50,000 FT (100 NM/ 50,000 FT in Sector R300-000).

EGGP AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Pilots are to 'book out' by telephoning details to ATC. ‘Booking out’ by radio is not accepted.
b) The wearing of high visibility clothing is mandatory for all personnel employed on each of the apron areas, including flight crews.
c) The aerodrome is PPR for aircraft which are not based at Liverpool Airport. Mandatory handling is required for all visiting or non-based aircraft. Prior permission should be requested through a handling agent, AOC and airportcontrol@liverpoolairport.com; (see AD 2.4). No permission will be granted by ATC. Aircraft without prior permission could be refused landing clearance except in an emergency. Filing a flight plan does not constitute a PPR request.
d) Prior permission for departures and arrivals is required from ATC for aircraft unable to communicate with ATC by radio.
e) Aircraft Captains, through their staff and/or Handling agents, are responsible for the safety of persons and/or vehicles on the apron during engine start.
f) All flights, except General Aviation and Military flights, are subject to the prior approval of the Airport Operations Director, Liverpool Airport Ltd and prior notification to Airport Co-ordination Ltd, who act as an agent for the airport. Requests for ad-hoc slot allocations should be made to ACL during working hours Mon-Fri 0830-1700 (0730-1600) by SITA: LONACXH; e-mail: lonacxh@acl-uk.org; or Tel: +44 (0)161-493 1850, Fax: +44 (0)161-493 1853, or at all other times to Airfield Operations +44 (0)151-907 1551. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com.
g) Liverpool ATC conduct Radar in the Tower (RiTT) operations, which will be notified via ATIS. During RiTT operations, ATC will be unable to provide the following: NDB approaches, SRAs, or training approaches.
h) Smoking airside, including the use of e-cigarettes/vapes is strictly prohibited.

2 GROUND MOVEMENT

a) Aircraft entering the Main Apron will be as directed by ATC, however, aircraft with a wingspan of 36 M or more will enter through Taxiway Whiskey (W).

b) Aircraft re-positioning on the aprons must obtain ATC permission and then follow the marshaller's guidance.
c) Taxiway Alpha from Holding Point Alpha 3 to Runway 27 threshold is restricted to aircraft with less than 52 M wingspan (code D). Aircraft with a wing span of 52 M or more shall be escorted by a follow-me vehicle ensuring nose wheel is maintained on the taxiway centre-line. A wing person shall be provided on the single story building 41.5 M north of the taxiway centre-line between Alpha 3 and the 27 threshold which infringes the code D taxiway strip.
d) Owing to the position of the hangars, Stands 1 and 32 are out of sight of ATC. Pilots should listen carefully to their taxi instructions.
e) Pilots are to report their stand number when requesting start-up. Start-up must not be requested until the aircraft is fully ready to start.
f) Take-off, landing and taxiing on grass areas is not permitted.
g) The General Aviation parking area is limited to aircraft of 5700 KG or less.
h) Visiting aircraft entering the GA apron at Kilo are to call Ravenair on 131.755 for parking instructions.
i) All runway holding position stop bars are constantly illuminated except when de-selected by ATC to permit aircraft and vehicles to enter runway.
j) A Temporary Demarcated Area is available on Stands 11,12 or 14 for any flights of Non-Qualifying Status. This area is only available by prior request. All aircraft parked on this area must not request start with ATC until the ground handling agents have given their approval to the pilot to do so, in order to ensure the area is free from all obstructions.
k) If a pilot has any doubt about taxiing instructions or ground clearance they should ask for marshalling assistance, which upon request will be provided.
l) Minimum breakaway power is to be used by aircraft operating on Apron areas.

3 CAT II/III OPERATIONS

a) Runway 27, subject to serviceability of the required facilities, are suitable for Category II and III operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During CAT II/III operations, special ATC procedures (Low Visibility Operations) will be applied. Pilots will be informed by ATC when these procedures are in operation. Pilots are advised that implementation of these procedures can cause delays for inbound and outbound traffic.
c) Aircraft departing Runway 27 must hold at the Alpha 2 holding point.
d) Arriving aircraft must continue to the end of the runway to vacate via CHARLIE. Aircraft must report runway vacated and report reaching Alpha 8.
e) For CAT II/III Operations, changeover standby power to mains takes place in 1 second.
f) Aircraft parking on the main apron will normally enter at Whiskey and exit at Uniform, except when directed by ATC.
g) Illuminated stop bars will be in operation at Holding Points A2, A3, A8, K, T, U, V and W during Low Visibility Operations.

4 WARNINGS

a) Pilots should positively identify the runway in use before committing the aircraft to a landing.
b) Pilots are reminded of the proximity of Restricted Area EGR311, 5 NM southwest of the aerodrome.
c) Aircraft completing visual approaches to Liverpool airport from the south and southeast are requested to avoid overflying the industrial chemical works situated on the south bank of the River Mersey, 1 NM south of the NDB LPL.
d) Pilots should exercise caution when leaving the main apron via Taxiway Victor to ensure they do not enter the rapid exit turn-off at ECHO when taxiing to Runway 09 or Runway 27.
e) Pilots are reminded that throughout the year, bird concentrations may be present on all areas under agricultural use on the approaches to Runway 09/27. Deterrent/dispersal within the aerodrome boundary is conducted by the Airfield Operations Unit and pilots may be requested by ATC to delay a departure or arrival if dispersal proves difficult.
f) Radio controlled models up to 20 KG operate at maximum altitude 400 FT AGL during daylight hours only, between 1000-2100 (0900-2000), within the confines of: Frodsham Marshes (132° - 4.4 NM), Halton Moss (085° - 7.6 NM) and Arrowe Park (290° - 11 NM).
g) Maintenance equipment on airport hotel roof. When in use equipment penetrates through the Obstacle Limitation Surface by maximum of 2.0 M. Obstacle approximately 625 M on a bearing of 329° from ARP. Equipped with obstacle warning light that automatically illuminates when the equipment is in use. When not in use and in parked position it is no longer an obstacle.
h) Over recent years, three specific Laser Hotspot areas have been identified in the vicinity of Liverpool Airport from which aircraft are more susceptible to laser attack from the ground. These areas are Liverpool city centre (7 NM northwest), Warrington town centre (10 NM northeast) and Runcorn town centre (4.5 NM east). Pilots are encouraged to report all laser attacks immediately to ATC including details of the colour of the laser and, where possible, the precise location of the laser. This information is then passed to the local police for an immediate response.
i) UK legislation requires UAVs unless otherwise authorised, to be flown at a level not above 400 FT above ground level and away from the vicinity of airports. Pilots encountering or observing UAVs operating above this level or in the vicinity of the airport are strongly encouraged to inform Liverpool ATC of the presence of the UAV. A description of the UAV, including its approximate level and location, should be communicated to ATC as soon as possible. ATC will then ensure that this information is immediately passed to the relevant police authority for further investigation on the ground.
j) Due to congested airspace, in the event of a missed approach, ATC may amend the standard missed approach instructions and may only issue headings.
k) Pilots to be aware that selected vehicles operate under a free ranging procedure on the Alpha Taxiway. Free ranging vehicles will continuously monitor ATC however are not directly under ATC instruction.

5 HELICOPTER OPERATIONS

a) Parts of the manoeuvring area can be used for take-offs and landings as instructed by ATC. Thresholds of the operational runways are designated as aiming points.
b) Arrivals: ATC will either select the appropriate threshold or instruct the helicopter to make an approach to the runway. If instructed to approach the runway, the helicopter is to turn on to a final approach and arrange the descent to flare to ground or hover taxiing speed in the fixed wing runway touchdown zone.
c) Taxiway Alpha Arrivals/Departures: Approach/Departures to the Alpha taxiway are only permitted when:

i. the runway is closed; and
ii. the helicopter is operating on a VFR clearance; and
iii. there are no aircraft, vehicles or personnel on the taxiway.

d) Departures: These will be made from the runway, Aiming Points or parallel taxiway as selected by ATC.
e) Taxiing - Hover (or ground taxiing if applicable) is required to/from the parking area via designated taxiways.
f) A training area for helicopter hovering has been designated to the west of Taxiway Charlie on a disused taxiway and grassed area. Manoeuvring helicopters shall be exempt from the 500 FT rule if it is conducting manoeuvres, in accordance with normal aviation practice, within boundaries of a licensed or Government aerodrome or, with the written permission of the CAA at other sites. When flying in accordance with the above exemption the helicopter must not be operated closer than 60 M to any persons, vessels, vehicles or structures located outside the aerodrome or site.
g) A FATO has been created south of the main runway that is available for use by Liverpool John Lennon Airport based helicopters only. The midpoint of the FATO is 531956.30N 0025107.80W with dimensions of 30 M x 30 M.

6 USE OF RUNWAYS

a) Variable circuit directions at the discretion of ATC.
b) Overhead join of the circuit is not available. Pilots should join the circuit as instructed by ATC.

7 TRAINING

a) Training flights by turbo-jet powered aircraft shall be subject to the prior approval of ATC. They will not normally be permitted on Sundays before 1000 (0900) or after 2000 (1900). On other days they will not be permitted between 2300-0700 (2200-0600). They will be subject to the following conditions:

i. All crew training circuits shall be carried out at least 1500 FT AAL;
ii. In other respects, training aircraft shall comply with the noise abatement procedures detailed below.

b) All types of IFR/VFR training are only available by prior arrangement with ATC and are subject to availability of training slots. Pilots are strongly advised to book their training slots with ATC well in advance. Failure to make a booking may result in the aircraft being refused use of the facilities.
c) Pilots unable to make the booked time must inform ATC as soon as possible so that a new booking may be made. Pilots should inform ATC as soon as possible of booking cancellations. Any flight delayed by 30 minutes or more will be deemed to have been cancelled.
d) When Runway 09 is the declared runway in use, instrument training to Runway 27 will not be permitted. Only radar vectored ILS/DME approaches will be available for instrument training to Runway 09.
e) The filing of a flight plan does not constitute a booking to carry out training from the airport.
f) VFR movements between 0000-0700 (2300-0600) are subject to PPR from ATC 0151-907 1541.

EGGP AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in LPL Controlled Airspace.

2 REVERSE THRUST

To minimise disturbance in areas adjacent to the aerodrome, Flights Crew shall avoid the use of reverse thrust after landing, unless necessary for the safe operation of the aircraft, especially between 2300-0600 (2200-0500).

3 AIRCRAFT NOISE QUOTA SYSTEM

Liverpool John Lennon Airport operates and manages a Night Noise Quota System, which is based on the CAA Supplement to the UK AIP, pertaining to the Airport Noise Restrictions Notice for London Heathrow, London Gatwick and London Stansted. The quota count value for the take-off and landing by individual aircraft types is shown in the Annexe to the above mentioned Supplement.

a) The night quota period is between 2300-0700 (2200-0600), with the quota count period being between 2330-0600 (2230-0500).
b) Operators must supply information appertaining to the noise characteristics (aircraft type, engine type, operating weight and maximum certificated landing or take-off weight as appropriate) and quota count for all non-exempt aircraft using Liverpool John Lennon Airport, between 2300-0700 (2200-0600). This information must be provided as part of the PPR request process and copied to the Environment Team. E-mail: environment@liverpoolairport.com.
c) Quota Count Operational Restrictions†

i. 2300-2330 (2200-2230) – Aircraft with quota count of QC/8 and QC/16 must not be scheduled to take-off or land;
ii. 2330-0600 (2230-0500) – Aircraft with quota count of QC/8 and QC/16 must not take-off or be scheduled to land;
iii. 0600-0700 (0500-0600) – Aircraft with quota count of QC/16 must not take-off or be scheduled to land.

Note: Certain exemptions (including emergencies) apply contact the Environmental Manager for a full list of exemptions.

4 ARRIVALS

Inbound aircraft, other than light aircraft flying under VFR or Special VFR, shall maintain a height of at least 2000 FT above aerodrome level until cleared to descend for landing. Aircraft approaching without assistance from ILS or radar shall follow a descent path which will not result in its being at any time lower than the approach path which would be followed by aircraft using the ILS glidepath, and it is recommended that aircraft join final approach at not less than 3 NM.

5 DEPARTURES

a) Runway 27

   i. After take-off all aircraft of more than 5700 KG (12,500 LB) MTWA shall climb straight ahead at maximum rate to 1000 FT AAL before turning.

b) Runway 09

   i. Between 2300-0700 (2200-0600), Runway 09 will only be available for take-off when over-riding operational considerations necessitate its use, eg performance requirements.
   ii. After take-off the initial turn onto outbound heading shall be commenced as soon as practicable, but not below 500 FT AAL and not before passing the end of the runway.

c) After completion of the initial turn onto outbound heading, all turbo-jet powered aircraft shall reduce power for noise abatement purposes so as to maintain a rate of climb of at least 500 FT per minute at power settings which will ensure progressively decreasing noise levels at points on the ground under the flight path.

6 ENGINE TESTING

Aircraft engine testing is subject to the approval of the Airport Authority and shall only be permitted between the hours of 0700-2300 (0600-2200). Outside these hours engine testing will not be permitted other than in exceptional operational circumstances.

7 REQUIREMENTS

These requirements may be departed from the extent necessary for avoiding immediate danger or risk to life or property.

8 CONTINUOUS DESCENT APPROACHES TO RUNWAY 09

a) Turbo-jet and turbo-prop aircraft are expected to apply continuous descent, low power, low drag approach techniques at all times.
b) Subject to ATC instructions, inbound aircraft are to maintain as high an altitude as practical and adopt a low power, low drag, continuous descent approach profile. ATC will provide estimated track distance to touchdown to allow pilots to descend at a rate they judge best suited to achieve continuous descent without using more power or drag than necessary. The object will be to join the glidepath at the appropriate height for the distance without level flight.
c) To facilitate these techniques aircraft should be flown no faster than 250 KT from the Speed Limiting Points and below FL 100 and 250-210 KT during the intermediate approach phase. Thereafter speed should be managed so as to achieve a continuous descent using as little power or drag as possible. ATC may impose speed control if required for seperation purposes.
d) ATC will provide regular range checks. Pilots who require additional track mileage to facilitate a successful CDA should inform ATC as soon as possible.

Note: *Continuous descent approaches are only available on Runway 09. Runway 27 operations may require prolonged flight at lower altitude for airspace integration. See EGGP AD 2.22 2 (e) (iii).*

EGGP AD 2.22 FLIGHT PROCEDURES

1 RADIO COMMUNICATIONS FAILURE PROCEDURES

a) In the event of complete communication failure in an aircraft, the pilot will adopt the appropriate procedures notified at ENR 1.1.3, with the following exceptions.

   i. When complete communication failure occurs in an aircraft before ETA or before EAT, when this has been received and acknowledged, the aircraft will:

      1. Fly to the LPL NDB holding point;
      2. hold at the last assigned level until the last acknowledged ETA plus 10 minutes or EAT when this has been given; or, if radio failure occurs after an aircraft has reported over the holding point, hold at the last assigned level until ATA plus 10 minutes, or 10 minutes after the last acknowledged communications with ATC whichever is the later.
      3. then commence descent for landing in accordance with the procedures detailed at ENR 1.1.3 and effect a landing within 30 minutes (or later if able to approach and land visually).

   ii. Aircraft which are instructed by ATC to hold at TIPOD or KEGUN, before proceeding to the LPL NDB, will in the event of complete communication failure:

1. When an Onward Clearance Time has been received and acknowledged, leave TIPOD or KEGUN at that time at the last assigned level and proceed to the LPL NDB, then carry out the procedure as shown at ENR 1.1.3; or
2. when 'Delay Not Determined' has been transmitted by ATC, leave TIPOD or KEGUN on the route and at the level shown in paragraph iii to leave Controlled Airspace.

iii. The routes and altitudes to be used when leaving the TMA and CTR in accordance with the procedures given at ENR 1.1.3 are shown in the table below; the route to be followed is dependent on the position of the aircraft

Position at time of decision	Route
TIPOD	Track 360°T at last holding level minus 500 FT.
KEGUN	Track 270°T at last holding level minus 500 FT.
NDB LPL	Track 330°T at last holding level minus 500 FT ALT.
VOR WAL	Track 340°T at last holding level minus 500 FT ALT.

2 PROCEDURE FOR INBOUND AIRCRAFT

a) Clearance to enter the CTR.

Aircraft flying the Airways System will be cleared into the CTR without having to request a specific entry clearance.

b) Aircraft wishing to enter the CTR or TMA under IFR direct from the London FIR must observe the normal procedure for joining Airways at one of the following Reporting Points: Pole Hill VOR and Wallasey VOR.
c) Aircraft unable to comply with these procedures because they are not equipped for flight on Airways may, traffic and weather conditions permitting, be cleared to proceed to Liverpool, in accordance with the procedures described at paragraphs 4 to 7.
d) **Standard Terminal Arrival Routes (STARs)**

Standard arrival routes for aircraft inbound from the airways system will be routed via the Standard Terminal Routes (STARs) detailed at AD 2-EGGP-7 charts.

e) **Non-RNAV1 Inbound Aircraft**

Where STARs are designated as RNAV1 Only, Non-RNAV1 aircraft shall file via the existing route structure as featured in the Standard Route Document (SRD). Non-RNAV1 aircraft should not proceed beyond TIPOD/KEGUN without ATC clearance.

f) **Approach Procedures under Radar Control**

i. When inbound traffic is being sequenced by Radar, the approach procedure will be flown under directions from the Radar Controller. Aircraft will be given a track to take up according to the runway-in-use and will be allocated a level. Changes of heading or level will be made only on instructions from the Radar Controller except in the case of radio communication failure in the aircraft or at the Radar Unit. When cleared to descend, aircraft should descend at a rate of at least 500 FT per minute.
ii. In the event of radar failure, new instructions will be issued to each aircraft under radar control and the procedures as defined for approach without radar control put into effect. If radio communication fails at the Radar Unit, pilots on approach will revert to Approach Control for new instructions.
iii. Due to the close proximity of Manchester Airport 20 miles to the east of Liverpool Airport, various restrictions exist regarding descent profiles for aircraft inbound to Liverpool when landing Runway 27. These restrictions are dependent upon the runway in use at Manchester and are detailed below:

1. Manchester Runway 05L or 05R

Left Hand Circuit to Runway 27 is NOT available unless an emergency situation exists. All aircraft shall be positioned for a Right Hand Circuit to Runway 27. Aircraft shall be required to pass north abeam Liverpool Airport, WAL 10d, at or below 3000 FT descending to be 2500 FT or below by WAL 18d. In addition, KEGUN arrivals from the south will initially be positioned to the west of Liverpool Airport and will not be able to track within 5 miles of Liverpool Airport until the aircraft is at or below 3000 FT.

2. Manchester Runway 23L or 23R

Left Hand Circuit to Runway 27 is available. Aircraft shall be required to pass south abeam Liverpool Airport at or below 3000 FT descending to be 2000 FT by I-LQ D8 east of the airfield. For a Right Hand Circuit to Runway 27, aircraft shall be required to pass north abeam Liverpool Airport, WAL 10d, at or below 4000 FT descending to be 2000 FT or below by WAL 18d.

More restrictive descent profile requirements do exist. These are implemented on an infrequent basis and when they become effective aircraft will be advised of the requirements on an individual basis.

g) **Approach Procedures Without Radar Control**

i. When Liverpool inbound traffic is not being sequenced by Approach Radar, aircraft will be cleared direct from the holding facility to carry out an Approach Procedure. When cleared, descend in the NDB(L) LPL holding pattern to 2500 FT ALT, then carry out the required procedure in accordance with the Instrument Approach charts.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Speed Limit

i. A speed limit of 250 KT applies to all departures whilst flying below FL 100 unless previously removed by ATC. ATC will endeavour to remove the speed limitation as soon as possible and will use the phrase 'No ATC Speed Restriction'. The phrase must not be interpreted as relieving the pilot of his responsibility for the observance of any noise abatement procedures which may include a speed/power limitation.
ii. In certain weather conditions and perhaps for other reasons of safety, pilots may not be able to comply with the speed limit. When such circumstances are anticipated, the pilot should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this event, pilots will be informed before take-off of any higher speed limitation. Similarly, should such circumstances arise during flight, the pilot should immediately advise ATC, stating the minimum speed acceptable.
iii. Should weather conditions or other factors necessitate any modification of this procedure, the relevant information will be broadcast by ATC.

b) Allocation of Cruising Levels

i. When a re-clearance of Altitude/Flight Level is issued after take-off by ATC, it is the responsibility of the pilot to comply with at least the minimum altitudes shown in the SID procedure during the climb to the new assigned Altitude/Flight Level.
ii. Exceptionally, when ATC issue a re-clearance below the final SID altitude pilots must not climb above this revised altitude until further clearance is received.

c) Radio Communication Failure Procedures

i. In the event of complete radio communication failure in an outbound aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1.3
ii. For the purpose of radio failure, climb to flight-planned level should be commenced after the last position shown in column 4 of the SIDs where an altitude is specified.

d) Wake vortex, departures

i. Holding Points G & D are not considered by ATC to be intersection departures for the purposes of wake vortex separation, where the departure is a Light aircraft following a Small or Lower-Medium wake turbulence category aircraft using the full runway length (up to, but not including B757-sized or similar aircraft).
ii. Where pilots require greater than 2 minutes departure separation in such circumstances, this should be notified to ATC before entering the runway for line-up. Failure to notify ATC in advance of entering the runway may result in additional delay.

4 PROCEDURES FOR FLIGHTS BETWEEN MANCHESTER AND LIVERPOOL

a) IFR flights between Manchester and Liverpool Airports will normally be cleared via EKLAD 1R/Y off Runway 23R/L or via ASMIM 1S/Z off runway 05L/R to route to TIPOD/KEGUN.
b) IFR flights between Liverpool and Manchester Airports will normally be cleared via WAL 2T/V departure thence as directed by ATC.

5 SPECIAL AERODROME PROCEDURES

Flights within the local circuit area of aerodromes within the Zone or within access lanes of sectors serving these aerodromes may be made subject to the conditions listed below.

a) Air Traffic Rules for Liverpool CTR

i. During the notified hours of watch of Liverpool Air Traffic Control, the rules require that a pilot wishing to fly within the Control Zone must, unless otherwise authorized, comply with the following procedures:

1. **CALL** the appropriate Unit on the frequency giving details of the aircraft's position, level and proposed track;
2. **OBTAIN CLEARANCE** from Liverpool ATC for the flight;
3. **LISTEN OUT** on the appropriate frequency;
4. **OBEY** all instructions from Liverpool ATC.

b) Local Flying Area and Neston Lane

i. Within a local flying area of 1.5 NM radius centred on the aerodrome (position 532001N 0025100W), and within an entry/exit lane, width 1 NM, centre-line Liverpool Airport-Neston VRP from the boundary of the local flying area to the west boundary of the Control Zone, flights without compliance with IFR requirements may take place subject to the following conditions:

1. Aircraft to remain below cloud and in sight of the ground or water;
2. maximum altitude: 1500 FT, Liverpool QNH;
3. minimum flight visibility: 3 KM;
4. prior clearance to be obtained from Liverpool ATC.

c) Mersey Entry/Exit Lane

i. The local flying area is linked via the River Mersey to Seaforth Docks by means of an entry/exit lane, 1 NM in width, aligned on a centre-line joining positions 531927N 0025345W - 532300N 0025940W - 532741N 0030205W ('Seaforth Dock VRP'). Flights may take place without compliance with IFR requirements subject to the following conditions

1. Aircraft to remain below cloud and in sight of the ground or water;
2. maximum altitude: 1500 FT, Liverpool QNH;
3. minimum flight visibility: 3 KM;
4. prior clearance to be obtained from Liverpool ATC.

6 VFR AND SPECIAL VFR FLIGHTS

a) Clearance may be requested for Special VFR flight within the Liverpool CTR and will be given whenever the traffic situation permits. Special VFR flights are subject to the general conditions laid down in ENR 1.2.

Note: *Pilots holding a Private Pilots Licence (Aeroplanes) are reminded of the flight visibility requirements for Special VFR flight laid down in Schedule 8 part B of the Air Navigation Order 2016. All VFR and SPECIAL VFR Flights shall be operated in accordance with SERA.*

b) Aircraft may be given radar vectoring whilst within the CTR if, due to the traffic situation, ATC considers it necessary. Pilots are reminded that it is their responsibility when operating on a Special VFR Clearance to remain at all times clear of cloud and in sight of the surface and in flight conditions which will enable them to determine their flight path and ensure that they comply with SERA.3105 Minimum Heights, SERA.5010 Special VFR in control zones and ENR 1.2 paragraph 1.3(l). Pilots must inform the radar controller if compliance with these requirements entails a change of heading or level.
c) Pilots are reminded that a Special VFR clearance applies only to flight within the CTR and does not extend to flight within the surrounding airspace.
d) Special VFR flight may be subject to delay when they cannot be fitted readily into the traffic flow.
e) In order to reduce conflict with IFR flights, Special VFR arriving/departing flights will normally be cleared not above a specified altitude and to route via a published Visual Reference Point.
f) Special VFR clearances will not be issued to fixed wing aircraft departing from Liverpool if the reported weather conditions are: visibility 1500 M or less, or the cloud ceiling is less than 600 FT.
g) In order to integrate VFR flights to/from Liverpool Airport with the IFR traffic flow, standard routes are established along which VFR clearance will be issued subject to the conditions specified above. The routes provide a uni-directional traffic flow, dependent upon the runway in use at Liverpool Airport. The routes are detailed in paragraph 7 below and shown on the chart at AD-2-EGGP-4. Non-standard routes may be requested but ATC approval will only be granted if the traffic situation allows. Pilots are reminded of the requirements to remain in VMC at all times and to comply with the relevant parts of SERA and the Rules of the Air Regulations 2015, and must advise ATC if at any time they are unable to comply with instructions.
h) Aircraft requiring to hold south of Liverpool Airport should minimise flight over Stanlow oil refinery (4 NM south of the airport).
i) Aircraft approaching Liverpool Airport from the south and south east are requested to avoid overflying the industrial chemical works on the south bank of the River Mersey, 1 NM south of the Runcorn Bridge.

7 STANDARD VFR ENTRY/EXIT ROUTES IN THE LIVERPOOL CONTROL ZONE

a) Runway 27

		Route	Max Altitude	Remarks
Outbound to	North	Route via the River Mersey, to leave CTR via VRP Seaforth Dock.	2000 FT	
	South	Cross River Mersey and follow M53 Motorway, to leave CTR via VRP Vicars Cross Roundabout.	1500 FT	Remain east of EGR311 (Capenhurst).
Inbound from	North	Enter CTR via VRP Kirkby, route east of M57 Motorway, then as directed by ATC.	2000 FT	
	South	Enter CTR via VRP Tarporley Roundabout, route to the western edge of Helsby, then as directed by ATC.	1500 FT	

b) Runway 09

		Route	Max Altitude	Remarks
Outbound to	North	East of M57 Motorway, leave CTR via VRP Kirkby.	2000 FT	
	South	Cross River Mersey and leave CTR via VRP Tarporley Roundabout.	1500 FT	
Inbound from	North	Enter the CTR via VRP Seaforth Dock, route via the River Mersey, then as directed by ATC.	2000 FT	
	South	Enter CTR via VRP Vicars Cross Roundabout, follow M53 Motorway to VRP M53 Junction 11 (Stoak Interchange), then as directed by ATC.	1500 FT	Remain east of EGR311 (Capenhurst).

8 EGR323 NORTH WEST TRANSIT CORRIDOR

a) The EGR323 North West Transit Corridor lies immediately to east of the Liverpool CTR. EGR323 procedures are described in ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS.

9 VISUAL REFERENCE POINTS (VRP)

a) Remain to the east of the Burtonwood Services/M56 Junction 11 VRPs to remain clear of Liverpool CTR.
b) Remain to the west of the Stretton (Disused AD) VRP to remain clear of Manchester CTR.
c) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

10 FREQUENCY MONITORING CODE

a) Pilots operating outside the Liverpool CTR/CTA but within the area bounded by the following coordinates and maintaining a listening watch only on the Liverpool Radar frequency, 119.855 MHz, may select code 5060 with mode Charlie. Solo student pilots fulfilling the above criteria may select code 5067 with mode Charlie.

530626N 0024349W - 530314N 0024935W -
530253N 0023748W - 533723N 0023744W -
533223N 0025907W - 533213N 0031406W -
532621N 0032107W - 531909N 0032201W -
531525N 0031346W - 531714N 0031104W -
531427N 0030140W - 530626N 0024349W

b) Selection of 5060/5067 does not imply the receipt of an ATC service. Aircraft displaying these codes are not expected to contact ATC under normal circumstances, but remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Liverpool CTR/CTAs at all times. Pilots are reminded that the Manchester CTR/CTAs and the Hawarden RMZ are in close proximity to the Liverpool CTR/CTAs and the display of 5060/5067 does not constitute authority to transit these areas without permission.
c) Whilst squawking 5060/5067, pilots should be aware that Liverpool Radar may make blind calls in order to ascertain a pilot's intentions/ routing.
d) When an aircraft ceases to maintain a listening watch or is no longer flying within the area, the pilot will deselect transponder code 5060/ 5067.

EGGP AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGGP AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGGP-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGGP-2-2
CONTROL ZONE and CONTROL AREA CHART - ENTRY/EXIT LANES and VRPS
AD 2.EGGP-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGGP-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) POLE HILL - ICAO
AD 2.EGGP-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) REXAM - ICAO
AD 2.EGGP-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) BARTN 1T 1V - ICAO
AD 2.EGGP-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) WAL 2T 2V NANTI 2T - ICAO
AD 2.EGGP-6-4
STANDARD DEPARTURE CHART - INSTRUMENT (SID) NANTI 2V (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGGP-6-5
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) GASKO 1L LAKEY 1L LIBSO 1L POL 1L VEGUS 1L - ICAO
AD 2.EGGP-7-1
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BOFUM 2L PENIL 1L - ICAO
AD 2.EGGP-7-2
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ELVOS 1L LESTA 1L PEPZE 1L - ICAO
AD 2.EGGP-7-3

STANDARD INSTRUMENT ARRIVAL CODING TABLES GASKO 1L LAKEY 1L LIBSO 1L
AD 2.EGGP-7-4
STANDARD INSTRUMENT ARRIVAL CODING TABLES POL 1L VEGUS 1L BOFUM 2L
AD 2.EGGP-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES PENIL 1L ELVOS 1L LESTA 1L PEPZE 1L
AD 2.EGGP-7-6
RNAV HOLD CODING TABLES KEGUN TIPOD
AD 2.EGGP-7-7
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 09 - ICAO
AD 2.EGGP-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 09 - ICAO
AD 2.EGGP-8-2
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 09 - ICAO
AD 2.EGGP-8-3
INSTRUMENT APPROACH CHART RNP RWY 09 - ICAO
AD 2.EGGP-8-4
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 27 - ICAO
AD 2.EGGP-8-5
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 27 - ICAO
AD 2.EGGP-8-6
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 27 - ICAO
AD 2.EGGP-8-7
INSTRUMENT APPROACH CHART RNP RWY 27 - ICAO
AD 2.EGGP-8-8
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 27 - ICAO
AD 2.EGGP-8-9
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09
AD 2.EGGP-8-10
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 27
AD 2.EGGP-8-11

EGGP AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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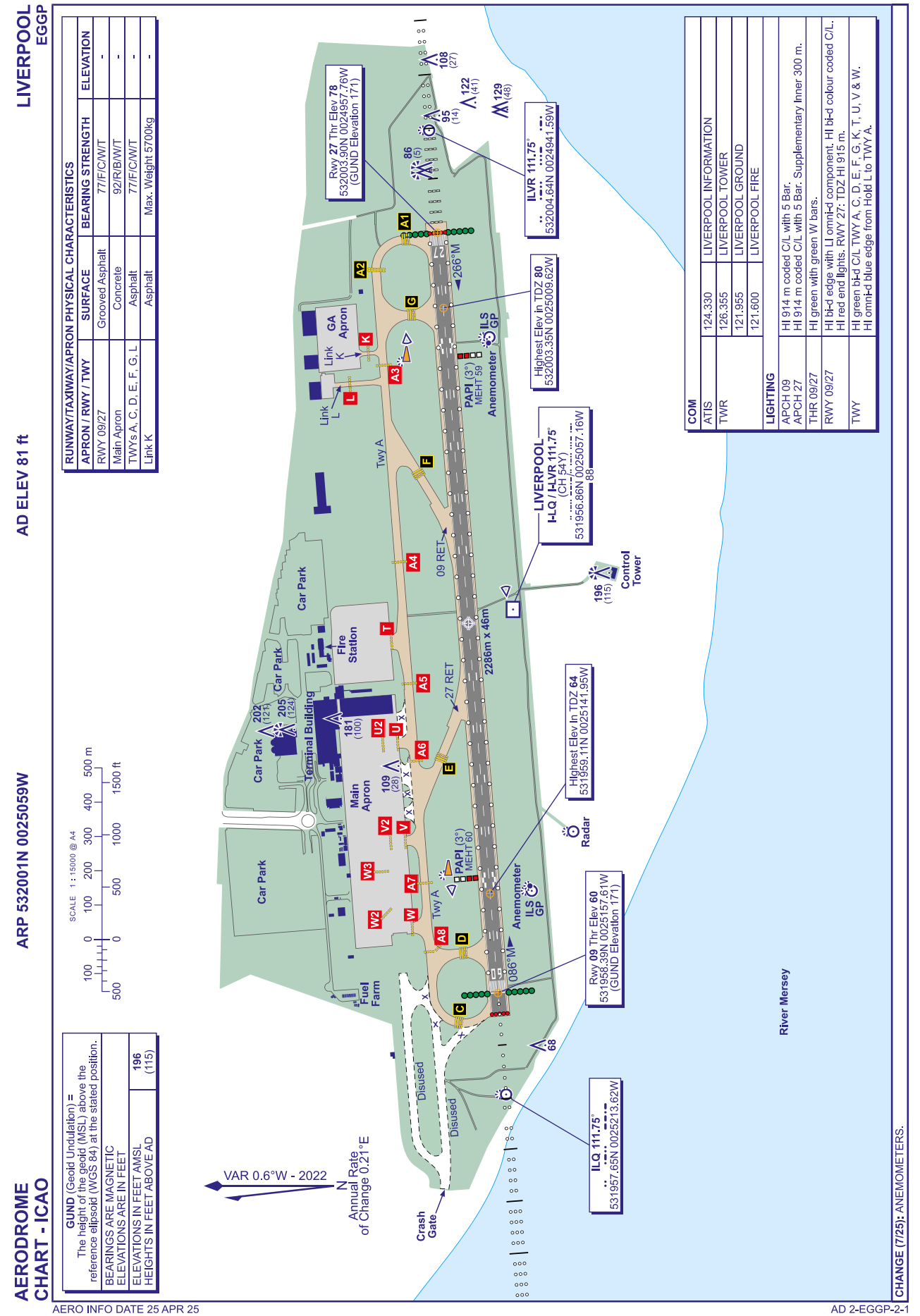

LIVERPOOL
EGGP
AD ELEV 81 ft
ARP 532001N 0025059W
AERODROME CHART - ICAO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
BEARING STRENGTH
ELEVATION
RWY 09/27
Grooved Asphalt
77/F/C/W/T
-
Main Apron
Concrete
92/R/B/W/T
-
TWYs A, C, D, E, F, G, L
Asphalt
77/F/C/W/T
-
Link K
Asphalt
Max. Weight 5700kg
-
GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
196 (115)
SCALE 1 : 15000 @ A4
100 0 100 200 300 400 500 m
500 0 500 1000 1500 ft
Rwy 27 Thr Elev 78
532003.90N 0024957.76W
(GUND Elevation 171)
Rwy 09 Thr Elev 60
531958.39N 0025157.61W
(GUND Elevation 171)
ILVR 111.75°
532004.64N 0024941.59W
ILQ 111.75°
531957.65N 0025213.62W
LIVERPOOL
I-LQ / I-LVR 111.75°
(CH 54Y)
531956.86N 0025057.16W
Highest Elev in TDZ 80
532003.35N 0025009.62W
Hghest Elev In TDZ 64
531959.11N 0025141.95W
2286m x 46m
09 RET
27 RET
266°M
086°M
PAPI (3°)
MEHT 59
PAPI (3°)
MEHT 60
ILS GP
Anemometer
Control Tower
Radar
Terminal Building
Fire Station
Main Apron
GA Apron
Link K
Link L
Twy A
Car Park
Fuel Farm
Disused
Crash Gate
River Mersey
VAR 0.6°W - 2022
Annual Rate of Change 0.21°E
COM
ATIS
124.330
LIVERPOOL INFORMATION
TWR
126.355
LIVERPOOL TOWER
121.955
LIVERPOOL GROUND
121.600
LIVERPOOL FIRE
LIGHTING
APCH 09
APCH 27
HI 914 m coded C/L with 5 Bar.
HI 914 m coded C/L with 5 Bar. Supplementary Inner 300 m.
THR 09/27
HI green with green W bars.
RWY 09/27
HI bi-d edge with LI omni-d component. HI bi-d colour coded C/L. HI red end lights. RWY 27: TDZ HI 915 m.
TWY
HI green bi-d C/L TWY A, C, D, E, F, G, K, T, U, V & W. HI omni-d blue edge from Hold L to TWY A.
CHANGE (7/25): ANEMOMETERS.
AERO INFO DATE 25 APR 25
AD 2-EGGP-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

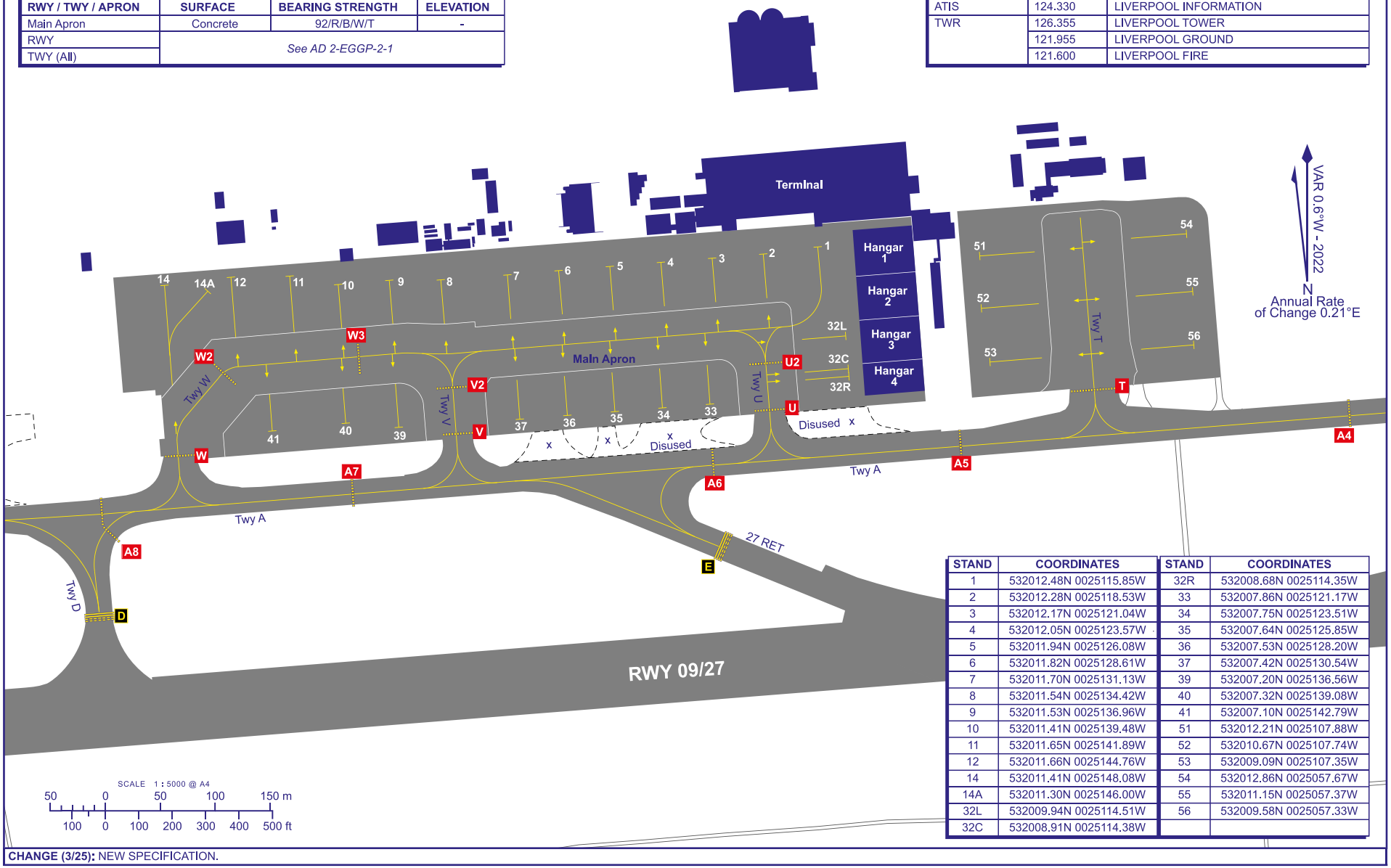
ARP 532001N 0025059W

AD ELEV 81 ft

LIVERPOOL
EGGP

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	BEARING STRENGTH	ELEVATION
Main Apron	Concrete	92/R/B/W/T	-
RWY	*See AD 2-EGGP-2-1*		
TWY (All)			

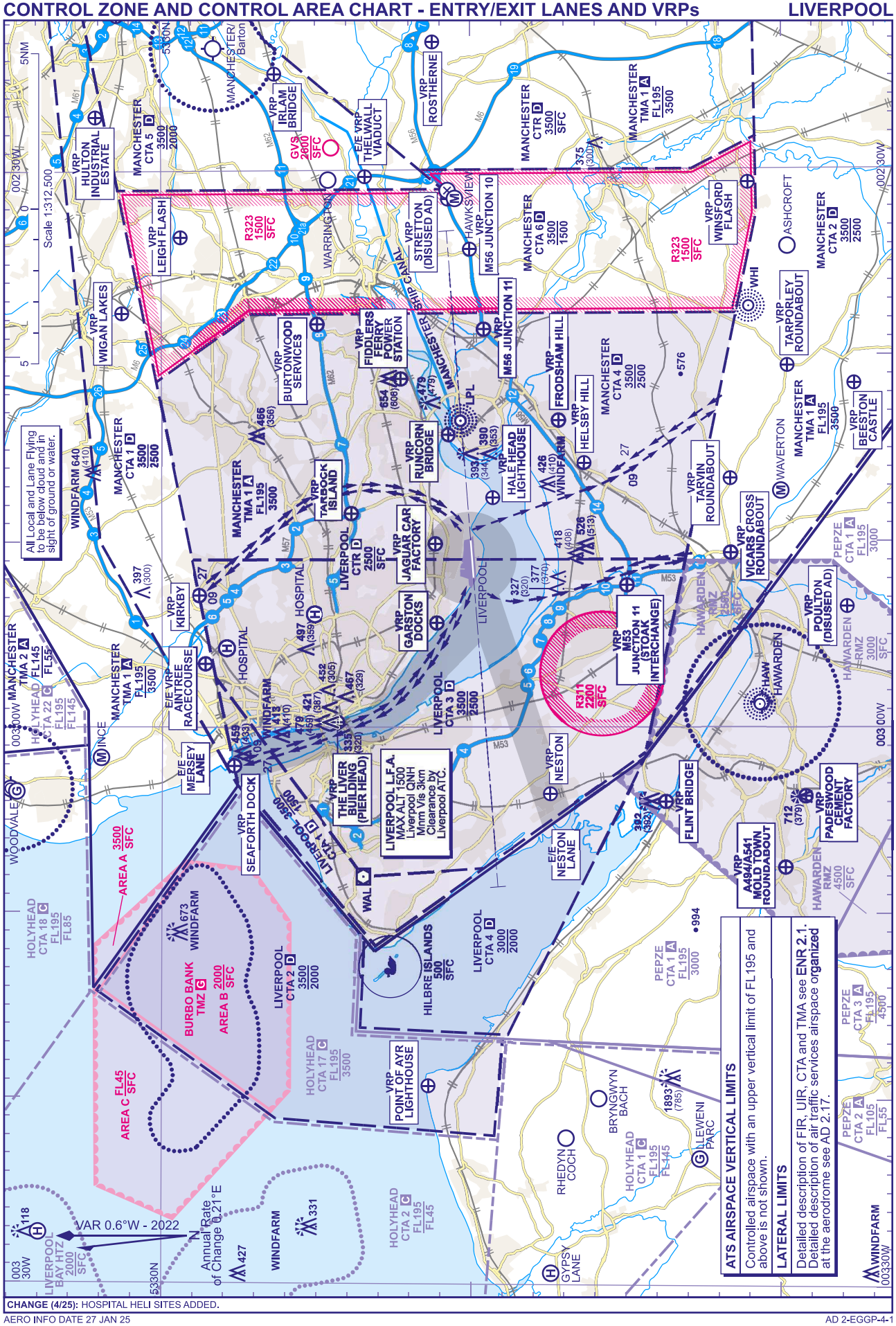
COM		
ATIS	124.330	LIVERPOOL INFORMATION
TWR	126.355	LIVERPOOL TOWER
	121.955	LIVERPOOL GROUND
	121.600	LIVERPOOL FIRE



STAND	COORDINATES	STAND	COORDINATES
1	532012.48N 0025115.85W	32R	532008.68N 0025114.35W
2	532012.28N 0025118.53W	33	532007.86N 0025121.17W
3	532012.17N 0025121.04W	34	532007.75N 0025123.51W
4	532012.05N 0025123.57W	35	532007.64N 0025125.85W
5	532011.94N 0025126.08W	36	532007.53N 0025128.20W
6	532011.82N 0025128.61W	37	532007.42N 0025130.54W
7	532011.70N 0025131.13W	39	532007.20N 0025136.56W
8	532011.54N 0025134.42W	40	532007.32N 0025139.08W
9	532011.53N 0025136.96W	41	532007.10N 0025142.79W
10	532011.41N 0025139.48W	51	532012.21N 0025107.88W
11	532011.65N 0025141.89W	52	532010.67N 0025107.74W
12	532011.66N 0025144.76W	53	532009.09N 0025107.35W
14	532011.41N 0025148.08W	54	532012.86N 0025057.67W
14A	532011.30N 0025146.00W	55	532011.15N 0025057.37W
32L	532009.94N 0025114.51W	56	532009.58N 0025057.33W
32C	532008.91N 0025114.38W		

CHANGE (3/25): NEW SPECIFICATION.

CONTROL ZONE AND CONTROL AREA CHART - ENTRY/EXIT LANES AND VRPs — LIVERPOOL



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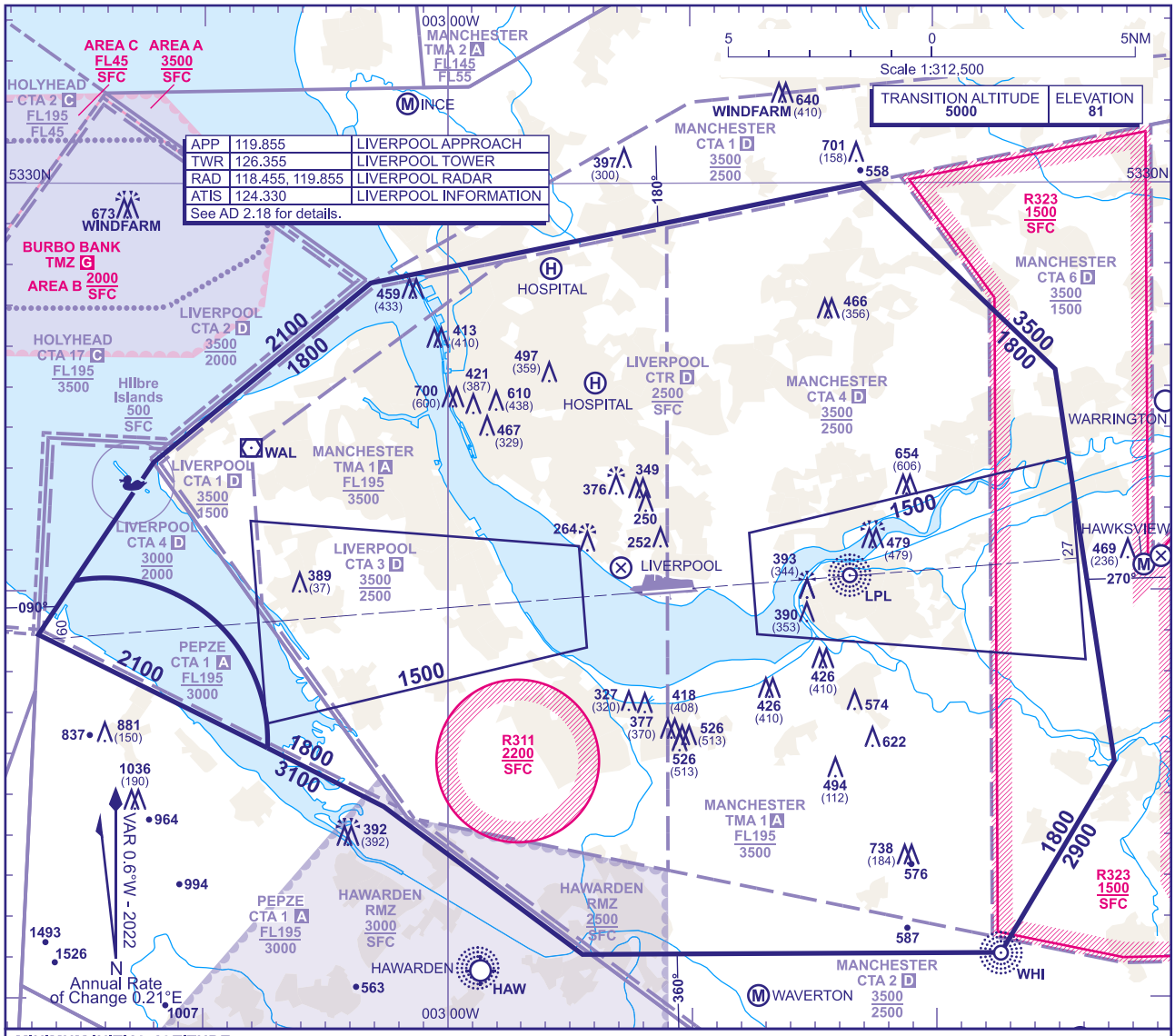
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL **1036**
HEIGHTS IN FEET AGL (190)

LIVERPOOL



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1800** in the sector defined by the lateral limits; 532014N 0031520W - 532309N 0031205W - 532734N 0030310W - 533000N 0024259W - 532525N 0023502W - 531547N 0023242W - 531106N 0023723W - 531105N 0025408W - 531427N 0030140W - 531609N 0030723W thence anticlockwise by an arc of a circle radius 4NM centred on 531619N 0031403W to 532014N 0031520W.

b) **2100** in the sector defined by the lateral limits; 531609N 0030723W thence anticlockwise by an arc of a circle radius 4NM centred on 531619N 0031403W to 532014N 0031520W - 531855N 0031647W - 531609N 0030723W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher, to **NDB(L) LPL**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) LPL**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4 or the special procedure for the Manchester CTR and TMA (EGGP AD 2.22).

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. When receiving Radar Vectors for Runway 27 approaches, pilots should question ATC if no base leg turn has been passed by the time the aircraft reaches 8 DME east of the airfield, due to the proximity of the Manchester CTA.
8. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of a ATC Surveillance service.**
9. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of Instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 27 JAN 25

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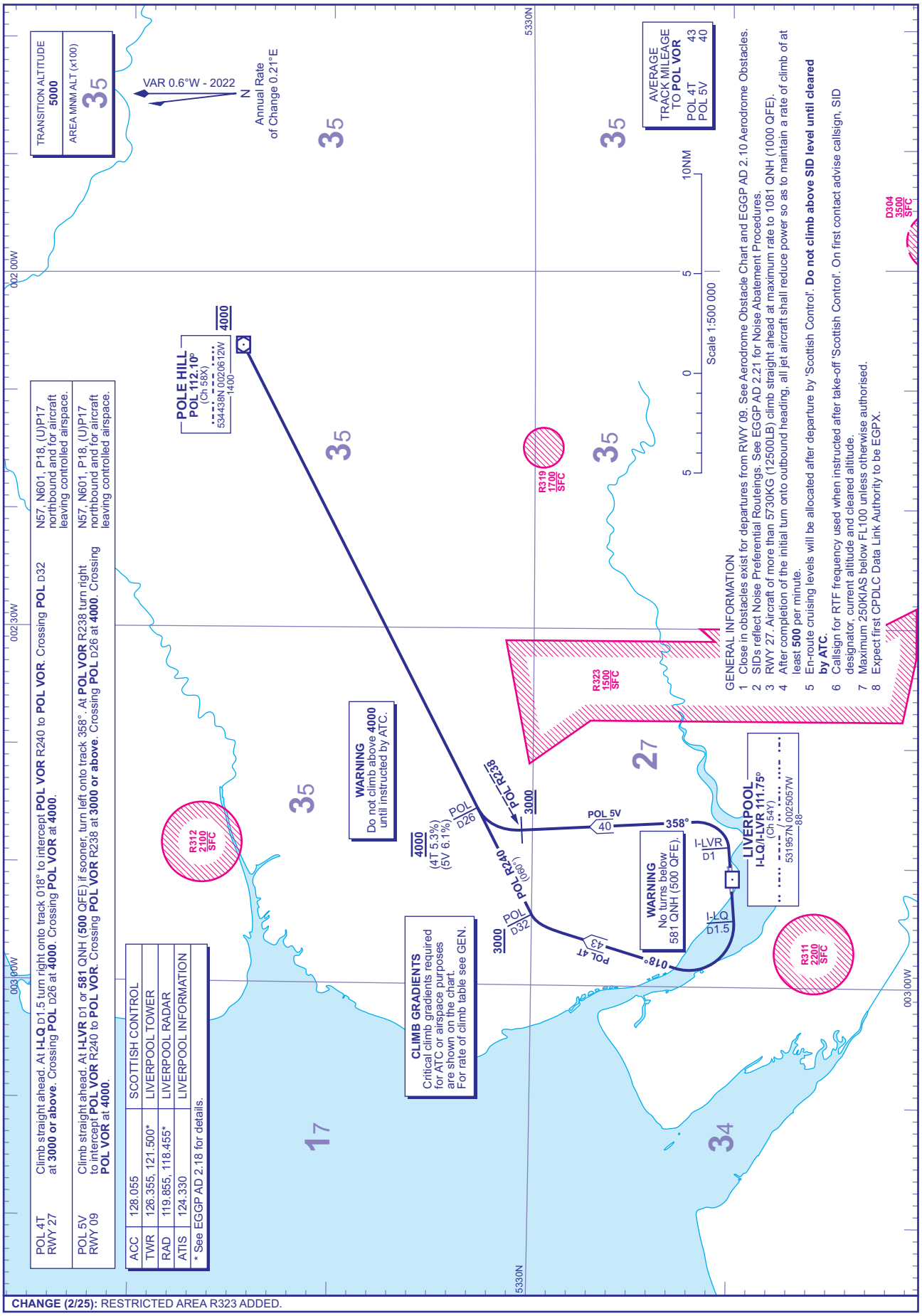
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL
POLE HILL



POL 4T RWY 27	Climb straight ahead. At **I-LQ** D1.5 turn right onto track 018° to intercept **POL VOR** R240 to **POL VOR**. Crossing **POL** D32 at **3000 or above**. Crossing **POL** D26 at **4000**. Crossing **POL VOR** at **4000**.	N57, N601, P18, (U)P17 northbound and for aircraft leaving controlled airspace.
POL 5V RWY 09	Climb straight ahead. At **I-LVR** D1 or **581** QNH (**500** QFE) if sooner, turn left onto track 358°. At **POL VOR** R238 turn right to intercept **POL VOR** R240 to **POL VOR**. Crossing **POL VOR** R238 at **3000 or above**. Crossing **POL** D26 at **4000**. Crossing **POL VOR** at **4000**.	N57, N601, P18, (U)P17 northbound and for aircraft leaving controlled airspace.

ACC	128.055 SCOTTISH CONTROL
TWR	126.355, 121.500* LIVERPOOL TOWER
RAD	119.855, 118.455* LIVERPOOL RADAR
ATIS	124.330 LIVERPOOL INFORMATION

* See EGGP AD 2.18 for details.

GENERAL INFORMATION

1 Close in obstacles exist for departures from RWY 09. See Aerodrome Obstacle Chart and EGGP AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGGP AD 2.21 for Noise Abatement Procedures.
3 RWY 27. Aircraft of more than 5730KG (12500LB) climb straight ahead at maximum rate to 1081 QNH (1000 QFE).
4 After completion of the initial turn onto outbound heading, all jet aircraft shall reduce power so as to maintain a rate of climb of at least **500** per minute.
5 En-route cruising levels will be allocated after departure by 'Scottish Control'. **Do not climb above SID level until cleared by ATC.**
6 Callsign for RTF frequency used when instructed after take-off 'Scottish Control'. On first contact advise callsign, SID designator, current altitude and cleared altitude.
7 Maximum 250KIAS below FL100 unless otherwise authorised.
8 Expect first CPDLC Data Link Authority to be EGPX.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

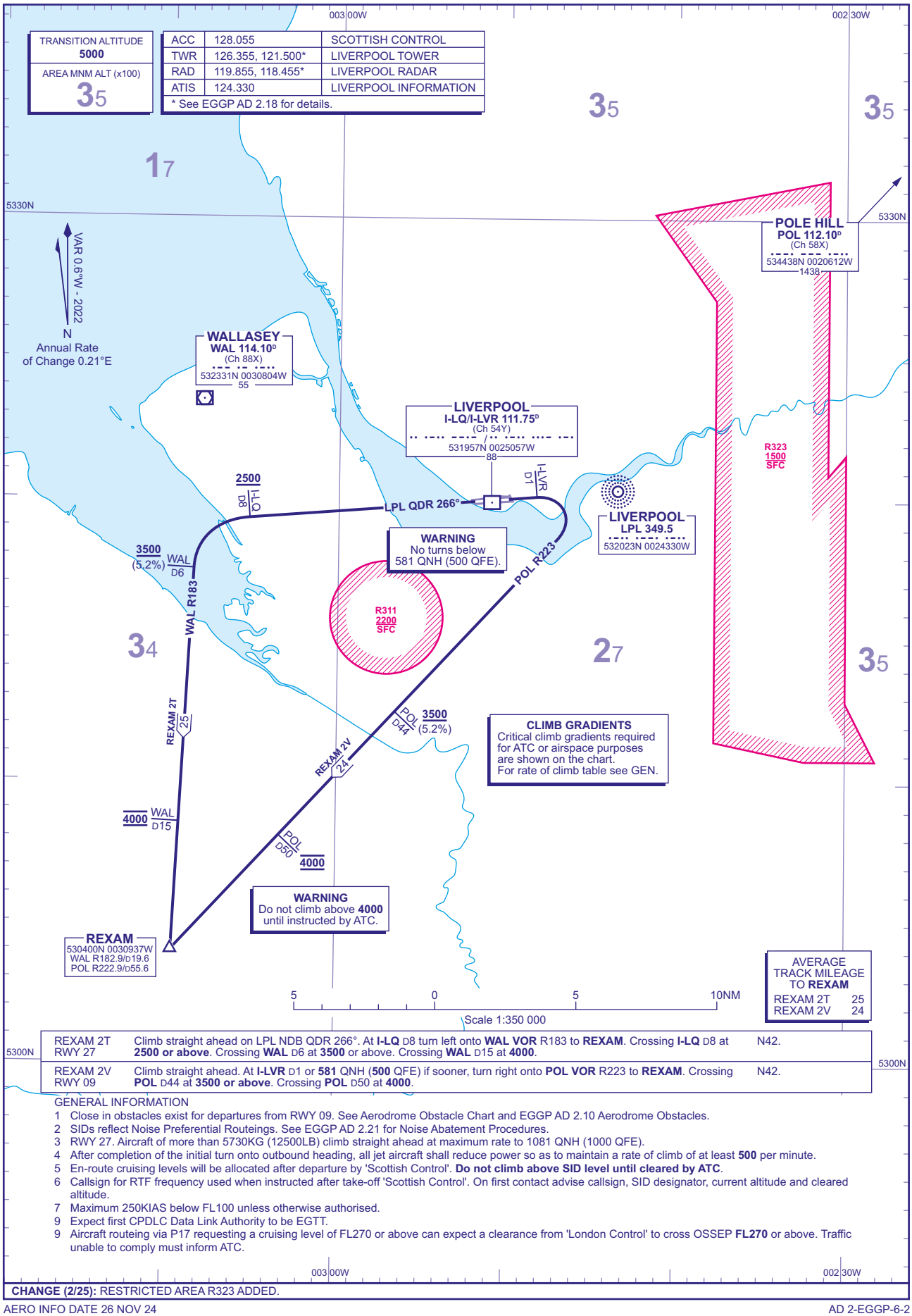
AERO INFO DATE 26 NOV 24

AD 2-EGGP-6-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL REXAM



REXAM 2T RWY 27	Climb straight ahead on LPL NDB QDR 266°. At **I-LQ** D8 turn left onto **WAL VOR** R183 to **REXAM**. Crossing **I-LQ** D8 at **2500 or above**. Crossing **WAL** D6 at **3500** or above. Crossing **WAL** D15 at **4000**.	N42.
REXAM 2V RWY 09	Climb straight ahead. At **I-LVR** D1 or **581** QNH (**500** QFE) if sooner, turn right onto **POL VOR** R223 to **REXAM**. Crossing **POL** D44 at **3500 or above**. Crossing **POL** D50 at **4000**.	N42.

GENERAL INFORMATION

1 Close in obstacles exist for departures from RWY 09. See Aerodrome Obstacle Chart and EGGP AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGGP AD 2.21 for Noise Abatement Procedures.
3 RWY 27. Aircraft of more than 5730KG (12500LB) climb straight ahead at maximum rate to 1081 QNH (1000 QFE).
4 After completion of the initial turn onto outbound heading, all jet aircraft shall reduce power so as to maintain a rate of climb of at least **500** per minute.
5 En-route cruising levels will be allocated after departure by 'Scottish Control'. **Do not climb above SID level until cleared by ATC**.
6 Callsign for RTF frequency used when instructed after take-off 'Scottish Control'. On first contact advise callsign, SID designator, current altitude and cleared altitude.
7 Maximum 250KIAS below FL100 unless otherwise authorised.
9 Expect first CPDLC Data Link Authority to be EGTT.
9 Aircraft routeing via P17 requesting a cruising level of FL270 or above can expect a clearance from 'London Control' to cross OSSEP **FL270** or above. Traffic unable to comply must inform ATC.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

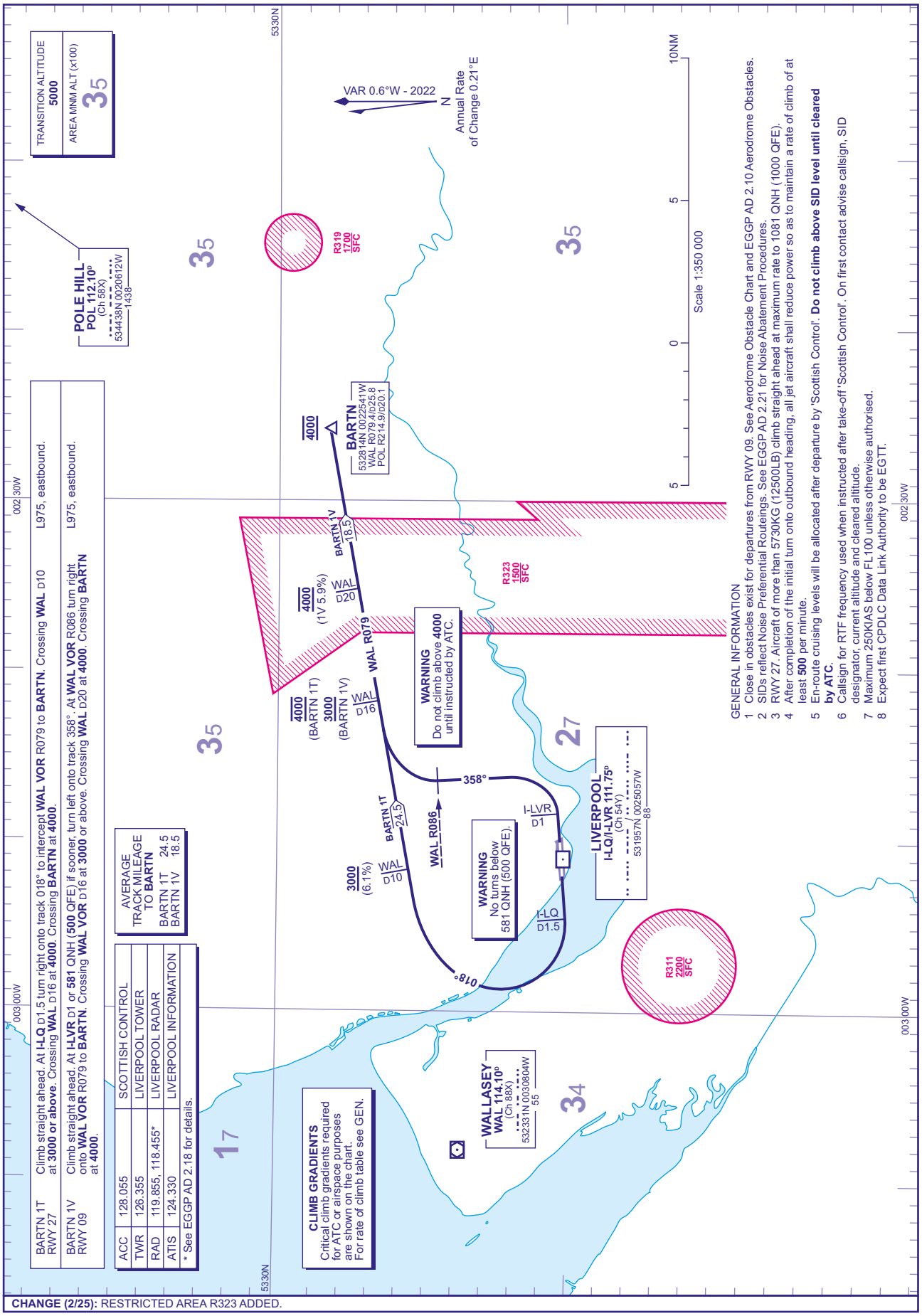
AERO INFO DATE 26 NOV 24

AD 2-EGGP-6-2

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL
BARTN 1T 1V



CHANGE (2/25): RESTRICTED AREA R323 ADDED.

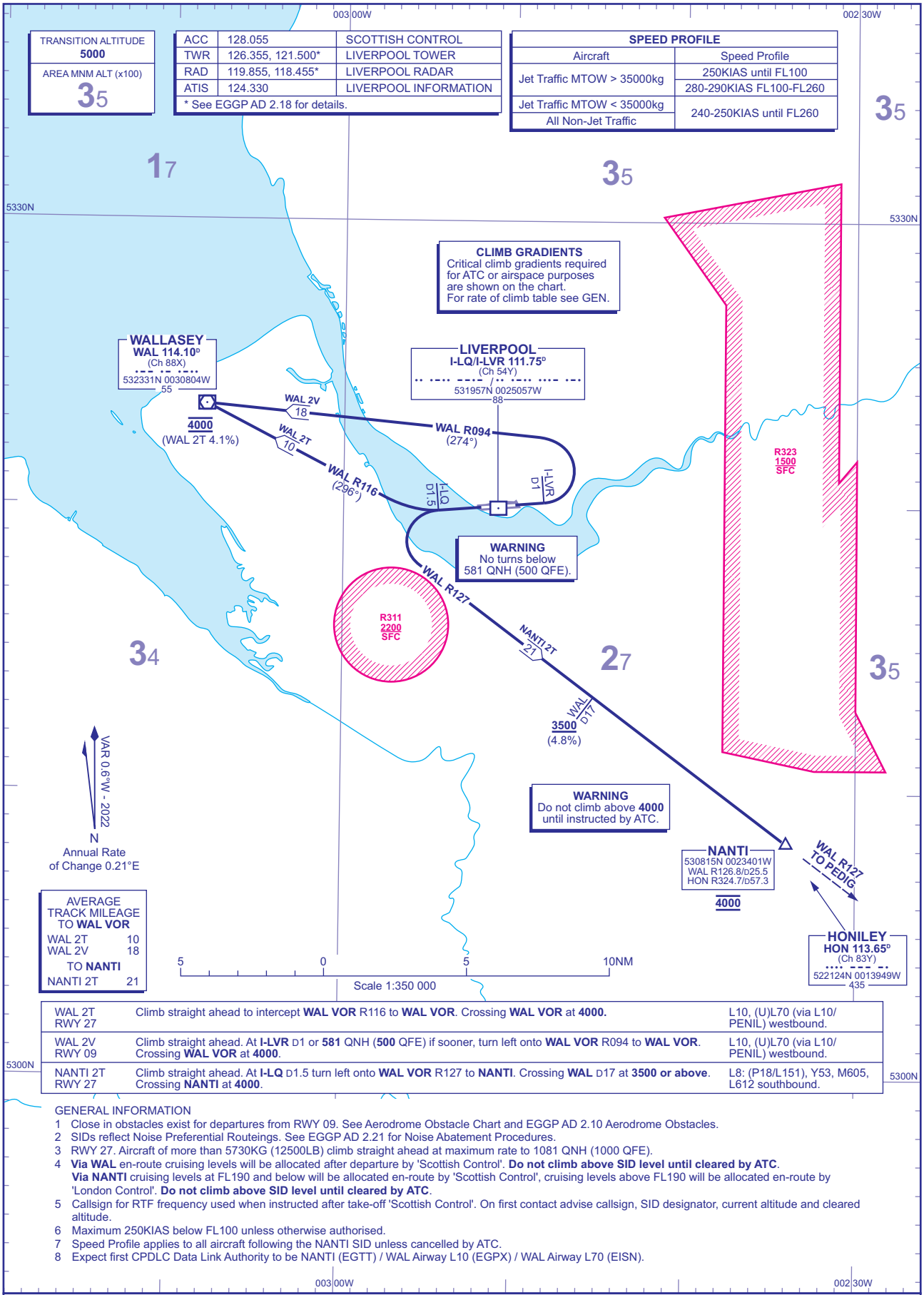
AERO INFO DATE 26 NOV 24

AD 2-EGGP-6-3

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL
WAL 2T 2V NANTI 2T



WAL 2T RWY 27	Climb straight ahead to intercept **WAL VOR** R116 to **WAL VOR**. Crossing **WAL VOR** at **4000.**	L10, (U)L70 (via L10/ PENIL) westbound.
WAL 2V RWY 09	Climb straight ahead. At **I-LVR** D1 or **581** QNH (**500** QFE) if sooner, turn left onto **WAL VOR** R094 to **WAL VOR**. Crossing **WAL VOR** at **4000**.	L10, (U)L70 (via L10/ PENIL) westbound.
NANTI 2T RWY 27	Climb straight ahead. At **I-LQ** D1.5 turn left onto **WAL VOR** R127 to **NANTI**. Crossing **WAL** D17 at **3500 or above**. Crossing **NANTI** at **4000**.	L8: (P18/L151), Y53, M605, L612 southbound.

GENERAL INFORMATION

1 Close in obstacles exist for departures from RWY 09. See Aerodrome Obstacle Chart and EGGP AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGGP AD 2.21 for Noise Abatement Procedures.
3 RWY 27. Aircraft of more than 5730KG (12500LB) climb straight ahead at maximum rate to 1081 QNH (1000 QFE).
4 **Via WAL** en-route cruising levels will be allocated after departure by 'Scottish Control'. **Do not climb above SID level until cleared by ATC.**
Via NANTI cruising levels at FL190 and below will be allocated en-route by 'Scottish Control', cruising levels above FL190 will be allocated en-route by 'London Control'. **Do not climb above SID level until cleared by ATC.**
5 Callsign for RTF frequency used when instructed after take-off 'Scottish Control'. On first contact advise callsign, SID designator, current altitude and cleared altitude.
6 Maximum 250KIAS below FL100 unless otherwise authorised.
7 Speed Profile applies to all aircraft following the NANTI SID unless cancelled by ATC.
8 Expect first CPDLC Data Link Authority to be NANTI (EGTT) / WAL Airway L10 (EGPX) / WAL Airway L70 (EISN).

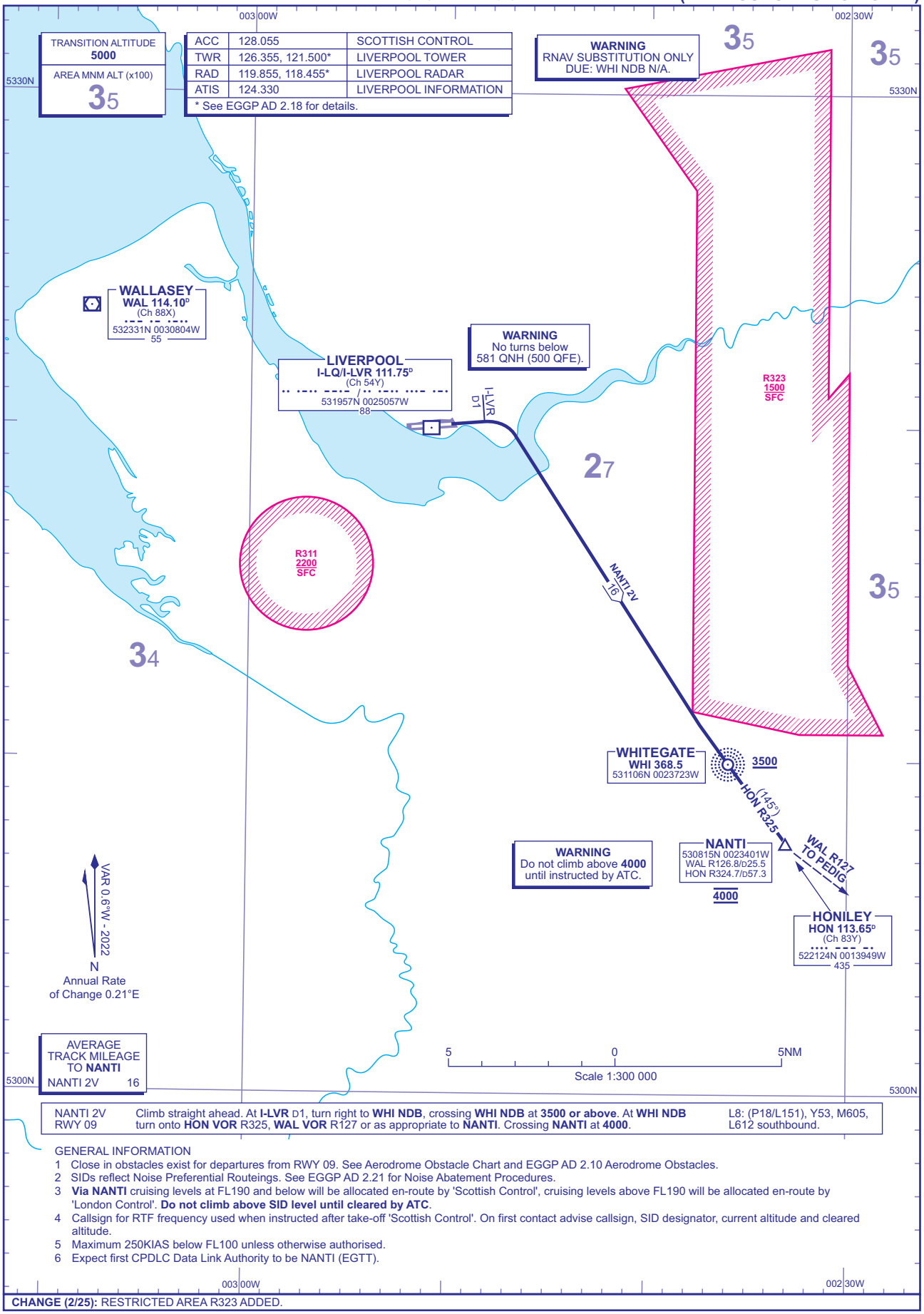
CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 26 NOV 24

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL NANTI 2V (RNAV SUBSTITUTION ONLY)



GENERAL INFORMATION

1 Close in obstacles exist for departures from RWY 09. See Aerodrome Obstacle Chart and EGGP AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGGP AD 2.21 for Noise Abatement Procedures.
3 **Via NANTI** cruising levels at FL190 and below will be allocated en-route by 'Scottish Control', cruising levels above FL190 will be allocated en-route by 'London Control'. **Do not climb above SID level until cleared by ATC**.
4 Callsign for RTF frequency used when instructed after take-off 'Scottish Control'. On first contact advise callsign, SID designator, current altitude and cleared altitude.
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 Expect first CPDLC Data Link Authority to be NANTI (EGTT).

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 26 NOV 24

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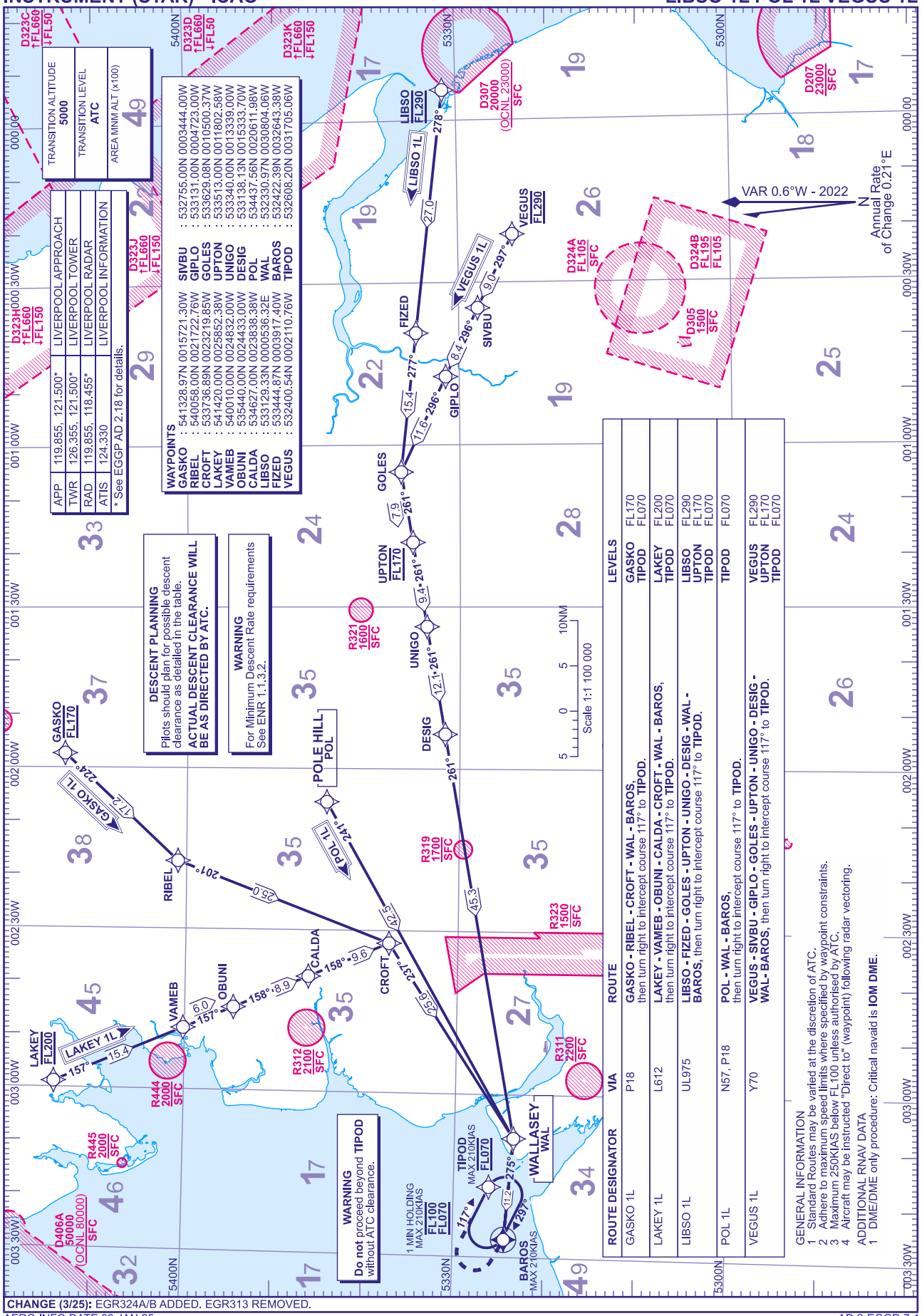
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL GASKO 1L LAKEY 1L LIBSO 1L POL 1L VEGUS 1L



CHANGE (3/25): EGR324A/B ADDED. EGR313 REMOVED.

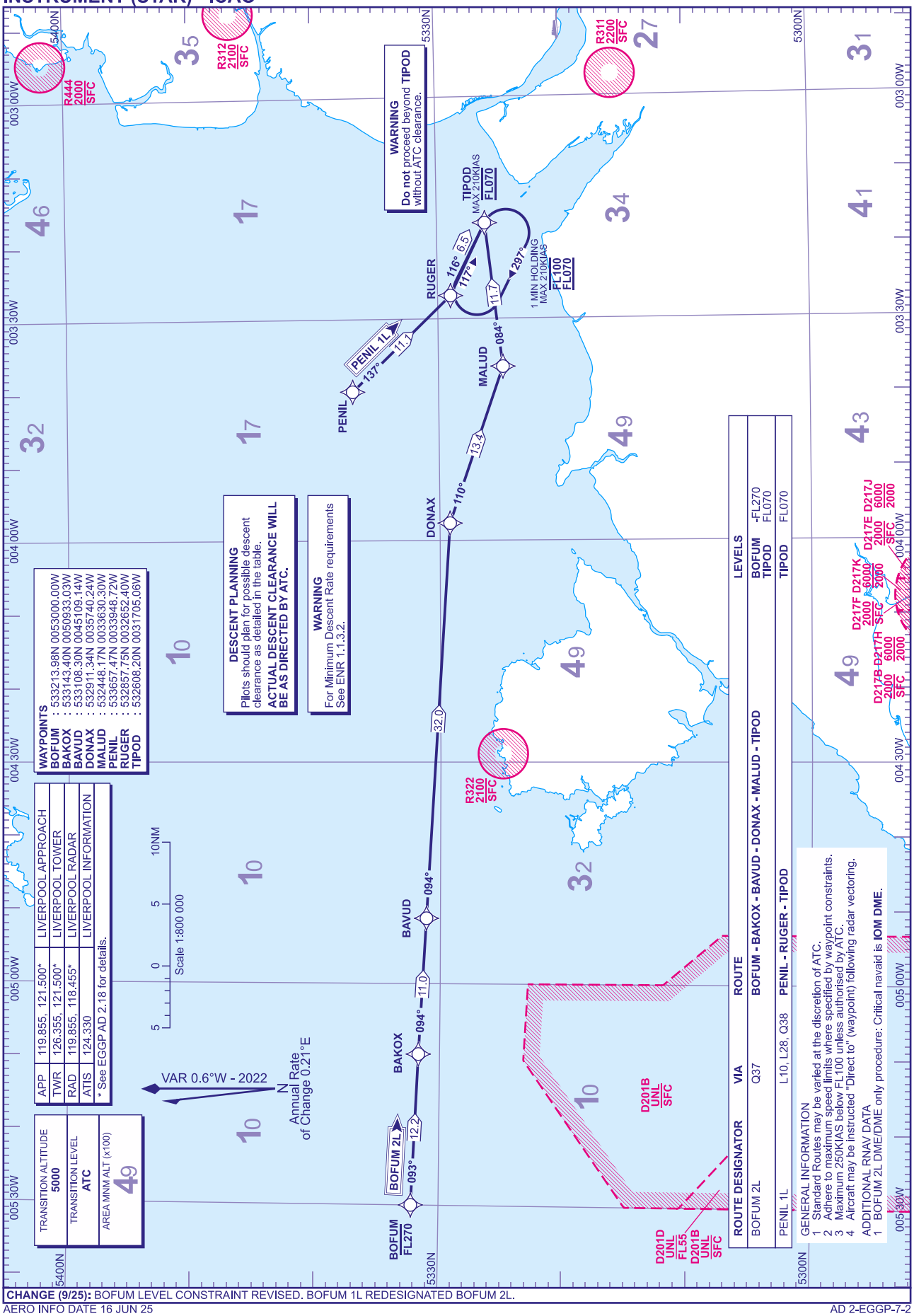
AERO INFO DATE 03 JAN 25

AD 2-EGGP-7-1

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL BOFUM 2L PENIL 1L



CHANGE (9/25): BOFUM LEVEL CONSTRAINT REVISED. BOFUM 1L REDESIGNATED BOFUM 2L.

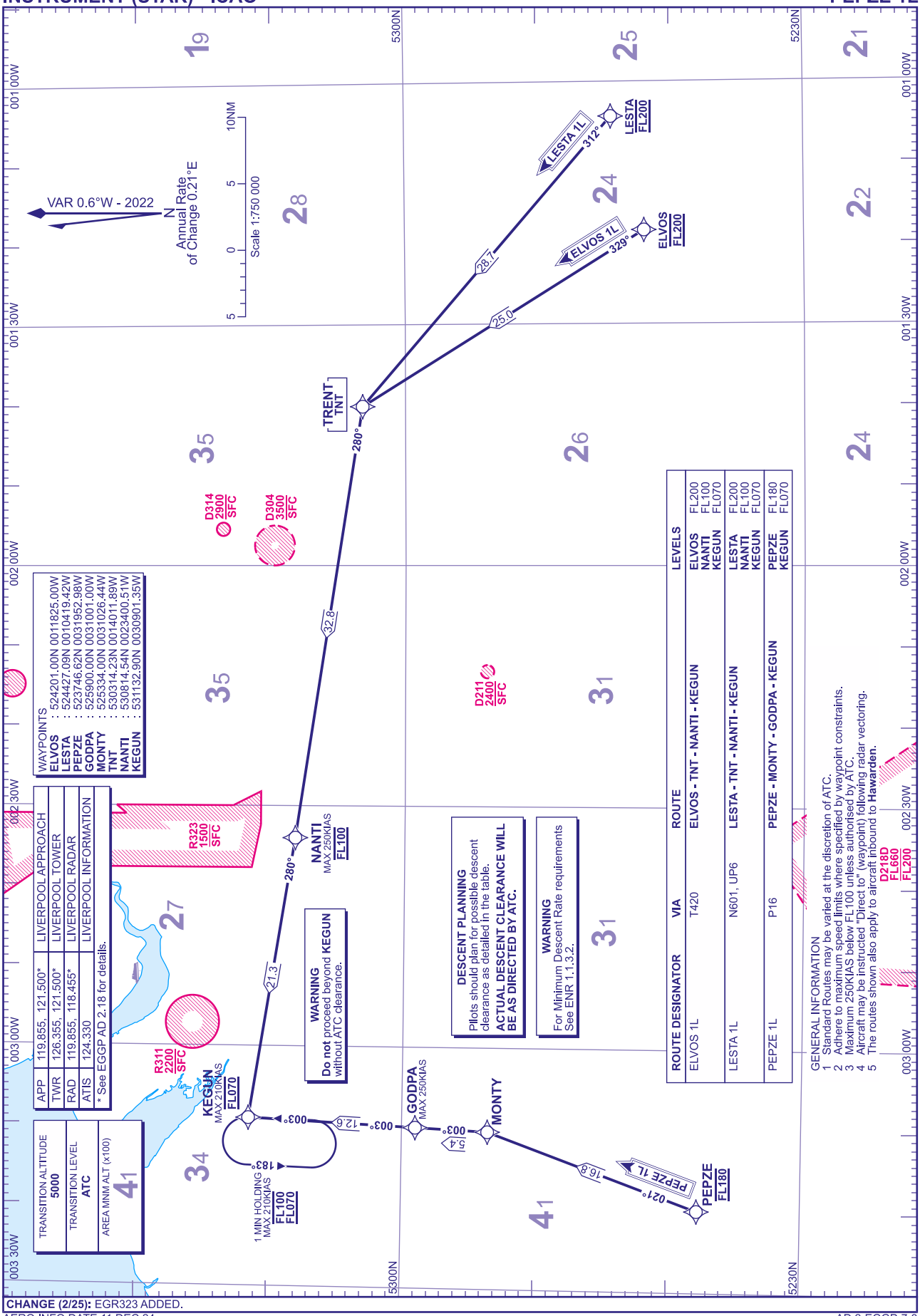
AERO INFO DATE 16 JUN 25

AD 2-EGGP-7-2

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LIVERPOOL ELVOS 1L LESTA 1L PEPZE 1L



CHANGE (2/25): EGR323 ADDED.
AERO INFO DATE 11 DEC 24

Standard Instrument Arrival Coding Tables

LIVERPOOL GASKO 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GASKO1L	001	IF	GASKO	541328.97N 0015721.30W	N	-	-	-	-	FL170	-	RNAV1
GASKO1L	002	TF	RIBEL	540058.00N 0021722.76W	N	224° (223.4°)	-0.6	17.2	LEFT	-	-	RNAV1
GASKO1L	003	TF	CROFT	533736.89N 0023219.85W	N	201° (200.9°)	-0.6	25.0	RIGHT	-	-	RNAV1
GASKO1L	004	TF	WAL	532330.97N 0030804.06W	N	237° (236.7°)	-0.6	25.6	RIGHT	-	-	RNAV1
GASKO1L	005	TF	BAROS	532422.39N 0032643.38W	Y	275° (274.5°)	-0.6	11.2	RIGHT	-	-210	RNAV1
GASKO1L	006	CF	TIPOD	532608.20N 0031705.06W	N	117° (116.0°)	-0.6	-	-	FL070	-210	RNAV1

LIVERPOOL LAKEY 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAKEY1L	001	IF	LAKEY	541420.00N 0025852.38W	N	-	-	-	-	FL200	-	RNAV1
LAKEY1L	002	TF	VAMEB	540010.00N 0024832.00W	N	157° (156.7°)	-0.6	15.4	-	-	-	RNAV1
LAKEY1L	003	TF	OBUNI	535440.00N 0024433.00W	N	157° (156.8°)	-0.6	6.0	-	-	-	RNAV1
LAKEY1L	004	TF	CALDA	534627.00N 0023838.38W	N	158° (156.9°)	-0.6	8.9	-	-	-	RNAV1
LAKEY1L	005	TF	CROFT	533736.89N 0023219.85W	N	158° (157.0°)	-0.6	9.6	RIGHT	-	-	RNAV1
LAKEY1L	006	TF	WAL	532330.97N 0030804.06W	N	237° (236.7°)	-0.6	25.6	RIGHT	-	-	RNAV1
LAKEY1L	007	TF	BAROS	532422.39N 0032643.38W	Y	275° (274.5°)	-0.6	11.2	RIGHT	-	-210	RNAV1
LAKEY1L	008	CF	TIPOD	532608.20N 0031705.06W	N	117° (116.0°)	-0.6	-	-	FL070	-210	RNAV1

LIVERPOOL LIBSO 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LIBSO1L	001	IF	LIBSO	533129.33N 0000536.32E	N	-	-	-	-	FL290	-	RNAV1
LIBSO1L	002	TF	FIZED	533444.87N 0003917.40W	N	278° (277.3°)	-0.6	27.0	-	-	-	RNAV1
LIBSO1L	003	TF	GOLES	533629.08N 0010500.37W	N	277° (276.7°)	-0.6	15.4	LEFT	-	-	RNAV1
LIBSO1L	004	TF	UPTON	533513.00N 0011802.58W	N	261° (260.8°)	-0.6	7.9	-	FL170	-	RNAV1
LIBSO1L	005	TF	UNIGO	533340.00N 0013339.00W	N	261° (260.6°)	-0.6	9.4	-	-	-	RNAV1
LIBSO1L	006	TF	DESIG	533138.13N 0015333.70W	N	261° (260.4°)	-0.6	12.1	-	-	-	RNAV1
LIBSO1L	007	TF	WAL	532330.97N 0030804.06W	N	261° (260.2°)	-0.6	45.3	RIGHT	-	-	RNAV1
LIBSO1L	008	TF	BAROS	532422.39N 0032643.38W	Y	275° (274.5°)	-0.6	11.2	RIGHT	-	-210	RNAV1
LIBSO1L	009	CF	TIPOD	532608.20N 0031705.06W	N	117° (116.0°)	-0.6	-	-	FL070	-210	RNAV1

CHANGE (3/23): SPECIFICATION CHANGE.
AERO INFO DATE 13 DEC 22

Standard Instrument Arrival Coding Tables

LIVERPOOL POL 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
POL1L	001	IF	POL	534437.56N 0020611.98W	N	-	-	-	-	-	-	RNAV1
POL1L	002	TF	WAL	532330.97N 0030804.06W	N	241° (240.6°)	-0.6	42.5	RIGHT	-	-	RNAV1
POL1L	003	TF	BAROS	532422.39N 0032643.38W	Y	275° (274.5°)	-0.6	11.2	RIGHT	-	-210	RNAV1
POL1L	004	CF	TIPOD	532608.20N 0031705.06W	N	117° (116.0°)	-0.6	-	-	FL070	-210	RNAV1

LIVERPOOL VEGUS 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
VEGUS1L	001	IF	VEGUS	532400.54N 0002110.76W	N	-	-	-	-	FL290	-	RNAV1
VEGUS1L	002	TF	SIVBU	532755.00N 0003444.00W	N	297° (295.9°)	-0.6	9.0	-	-	-	RNAV1
VEGUS1L	003	TF	GIPLO	533131.00N 0004723.00W	N	296° (295.6°)	-0.6	8.4	-	-	-	RNAV1
VEGUS1L	004	TF	GOLES	533629.08N 0010500.37W	N	296° (295.5°)	-0.6	11.6	LEFT	-	-	RNAV1
VEGUS1L	005	TF	UPTON	533513.00N 0011802.58W	N	261° (260.8°)	-0.6	7.9	-	FL170	-	RNAV1
VEGUS1L	006	TF	UNIGO	533340.00N 0013339.00W	N	261° (260.6°)	-0.6	9.4	-	-	-	RNAV1
VEGUS1L	007	TF	DESIG	533138.13N 0015333.70W	N	261° (260.4°)	-0.6	12.1	-	-	-	RNAV1
VEGUS1L	008	TF	WAL	532330.97N 0030804.06W	N	261° (260.2°)	-0.6	45.3	RIGHT	-	-	RNAV1
VEGUS1L	009	TF	BAROS	532422.39N 0032643.38W	Y	275° (274.5°)	-0.6	11.2	RIGHT	-	-210	RNAV1
VEGUS1L	010	CF	TIPOD	532608.20N 0031705.06W	N	117° (116.0°)	-0.6	-	-	FL070	-210	RNAV1

LIVERPOOL BOFUM 2L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BOFUM2L	001	IF	BOFUM	533213.98N 0053000.00W	N	-	-	-	-	-FL270	-	RNAV1
BOFUM2L	002	TF	BAKOX	533143.40N 0050933.03W	N	093° (092.3°)	-0.6	12.2	-	-	-	RNAV1
BOFUM2L	003	TF	BAVUD	533108.30N 0045109.14W	N	094° (092.9°)	-0.6	11.0	-	-	-	RNAV1
BOFUM2L	004	TF	DONAX	532911.34N 0035740.24W	N	094° (093.1°)	-0.6	32.0	RIGHT	-	-	RNAV1
BOFUM2L	005	TF	MALUD	532448.17N 0033630.30W	N	110° (109.0°)	-0.6	13.4	LEFT	-	-	RNAV1
BOFUM2L	006	TF	TIPOD	532608.20N 0031705.06W	N	084° (083.3°)	-0.6	11.7	-	FL070	-210	RNAV1

CHANGE (9/25): BOFUM LEVEL CONSTRAINT REVISED. BOFUM 1L REDESIGNATED 2L.
AERO INFO DATE 16 JUN 25

Standard Instrument Arrival Coding Tables

LIVERPOOL PENIL 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PENIL1L	001	IF	PENIL	533657.47N 0033948.72W	N	-	-	-	-	-	-	RNAV1
PENIL1L	002	TF	RUGER	532857.75N 0032652.40W	N	137° (136.0°)	-0.6	11.1	LEFT	-	-	RNAV1
PENIL1L	003	TF	TIPOD	532608.20N 0031705.06W	N	116° (115.8°)	-0.6	6.5	-	FL070	-210	RNAV1

LIVERPOOL ELVOS 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ELVOS1L	001	IF	ELVOS	524201.00N 0011825.00W	N	-	-	-	-	FL200	-	RNAV1
ELVOS1L	002	TF	TNT	530314.23N 0014011.89W	N	329° (328.3°)	-0.6	25.0	LEFT	-	-	RNAV1
ELVOS1L	003	TF	NANTI	530814.54N 0023400.51W	N	280° (279.1°)	-0.6	32.8	-	FL100	-250	RNAV1
ELVOS1L	004	TF	KEGUN	531132.90N 0030901.35W	N	280° (279.2°)	-0.6	21.3	-	FL070	-210	RNAV1

LIVERPOOL LESTA 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LESTA1L	001	IF	LESTA	524427.09N 0010419.42W	N	-	-	-	-	FL200	-	RNAV1
LESTA1L	002	TF	TNT	530314.23N 0014011.89W	N	312° (311.1°)	-0.6	28.7	LEFT	-	-	RNAV1
LESTA1L	003	TF	NANTI	530814.54N 0023400.51W	N	280° (279.1°)	-0.6	32.8	-	FL100	-250	RNAV1
LESTA1L	004	TF	KEGUN	531132.90N 0030901.35W	N	280° (279.2°)	-0.6	21.3	-	FL070	-210	RNAV1

LIVERPOOL PEPZE 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PEPZE1L	001	IF	PEPZE	523746.62N 0031952.98W	N	-	-	-	-	FL180	-	RNAV1
PEPZE1L	002	TF	MONTY	525334.00N 0031026.44W	N	021° (019.9°)	-0.6	16.8	LEFT	-	-	RNAV1
PEPZE1L	003	TF	GODPA	525900.00N 0031001.00W	N	003° (002.7°)	-0.6	5.4	-	-	-250	RNAV1
PEPZE1L	004	TF	KEGUN	531132.90N 0030901.35W	N	003° (002.7°)	-0.6	12.6	-	FL070	-210	RNAV1

CHANGE (3/23): PEPZE 1L ADDED. OKTEM 1L REMOVED.
AERO INFO DATE 13 DEC 22

RNAV Hold Coding Tables

LIVERPOOL KEGUN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KEGUN	-	-	KEGUN	531132.90N 0030901.35W	Y	003° (002.7°)	-0.6	1 MIN	LEFT	-FL100 +FL070	-210	RNAV1

LIVERPOOL TIPOD Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TIPOD	-	-	TIPOD	532608.20N 0031705.06W	Y	117° (116.0°)	-0.6	1 MIN	RIGHT	-FL100 +FL070	-210	RNAV1

CHANGE (3/23): SPECIFICATION CHANGE.
AERO INFO DATE 13 DEC 22

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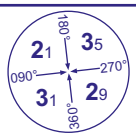
INSTRUMENT APPROACH CHART - ICAO

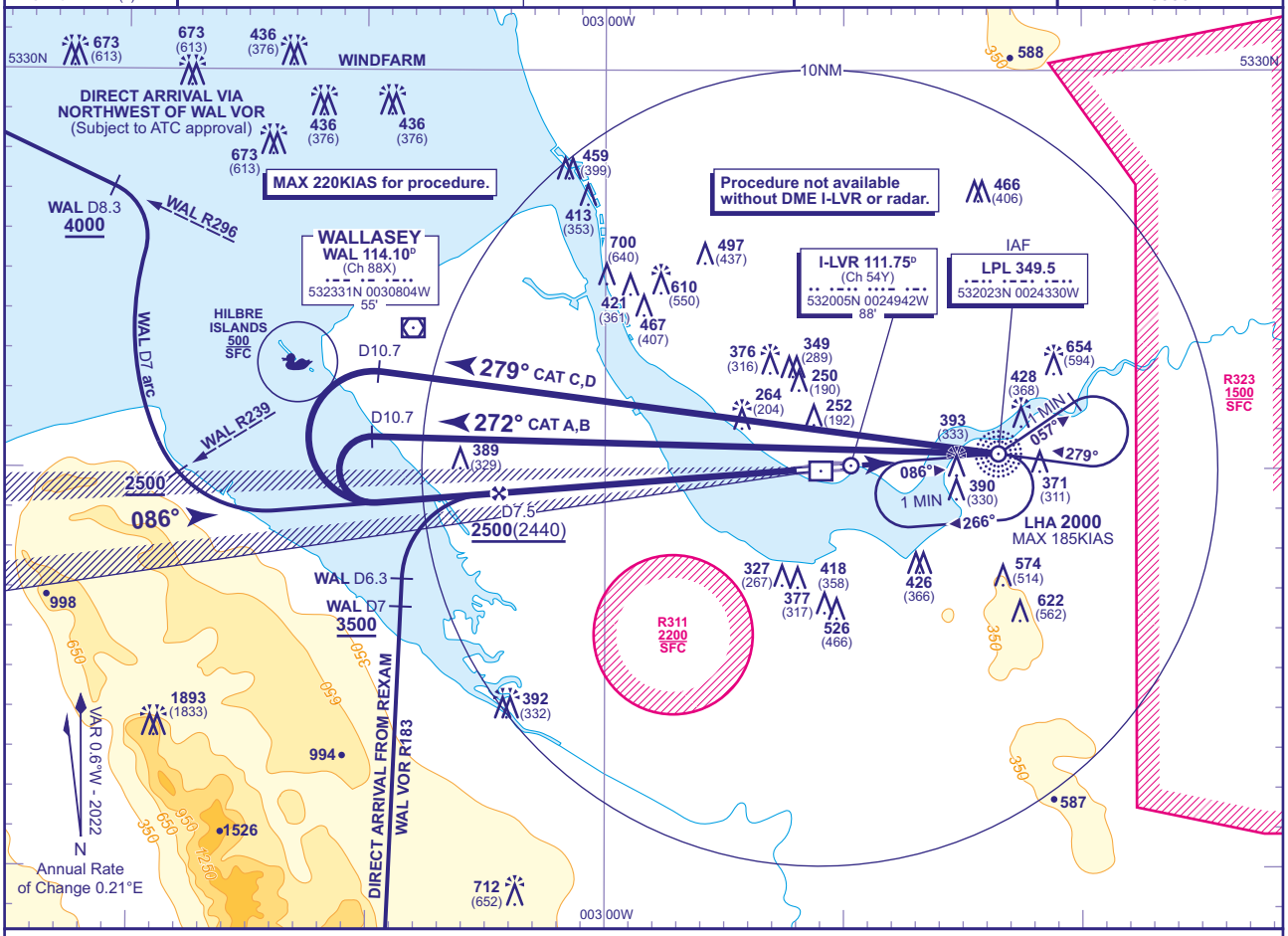
LIVERPOOL ILS/DME/NDB(L) RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LPL

APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	60
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 1893 AMSL (1833) (ABOVE THR)	
RAD	118.455, 119.855	LIVERPOOL RADAR		
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**

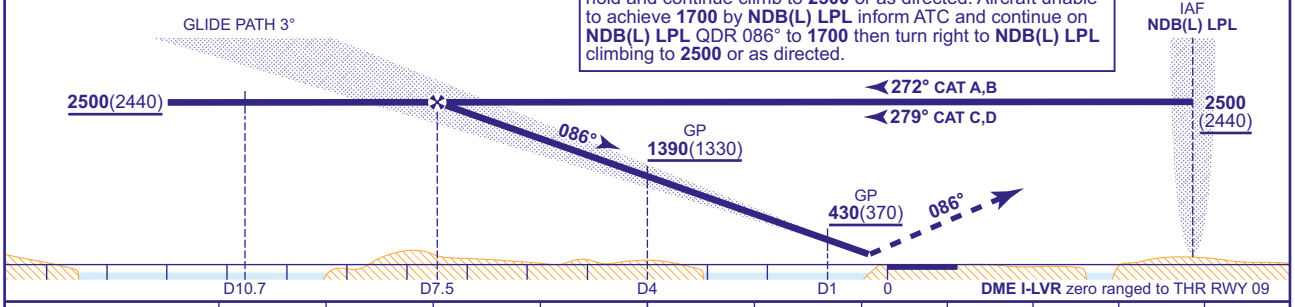


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-LVR	7	6	5	4	3	2	1
ALT(HGT)	**2340**(2280)	**2020**(1960)	**1700**(1640)	**1390**(1330)	**1070**(1010)	**750**(690)	**430**(370)

RDH 54 Arrival **not below 2500** or higher **MSA**. Shuttle in hold as required.

Climb straight ahead to **NDB(L) LPL** climbing to **2500**. Aircraft which achieve **1700** (7% climb grad req) by **NDB(L) LPL** enter hold and continue climb to **2500** or as directed. Aircraft unable to achieve **1700** by **NDB(L) LPL** inform ATC and continue on **NDB(L) LPL** QDR 086° to **1700** then turn right to **NDB(L) LPL** climbing to **2500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**205**(145)	**216**(156)	**228**(168)	**241**(181)
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

DIRECT ARRIVAL VIA REXAM
When cleared by ATC, from REXAM (IAF) (WAL VOR R183 WAL DME 19.6) continue inbound on WAL VOR R183. From WAL DME 16 descend **not below 3500**, after crossing WAL DME 7 continue descent to **2500**. See plan for continuation.

AIRCRAFT UNABLE TO RECEIVE DME I-LVR
Advise ATC. Radar ranges will be provided at 10.5NM outbound and at 7.5NM and 4NM inbound.

NOTE 1 Aircraft commencing the procedure from the NDB(L) LPL hold fly outbound on NDB(L) LPL QDR 057° for 1 MIN then base turn right to establish on QDM 099° inbound to NDB(L) LPL. From overhead NDB(L) LPL establish outbound on QDR appropriate to aircraft category.
2 Distance from NDB(L) LPL overhead to base turn left at I-LVR DME D10.7 is 15.7NM.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24

AD 2-EGGP-8-1

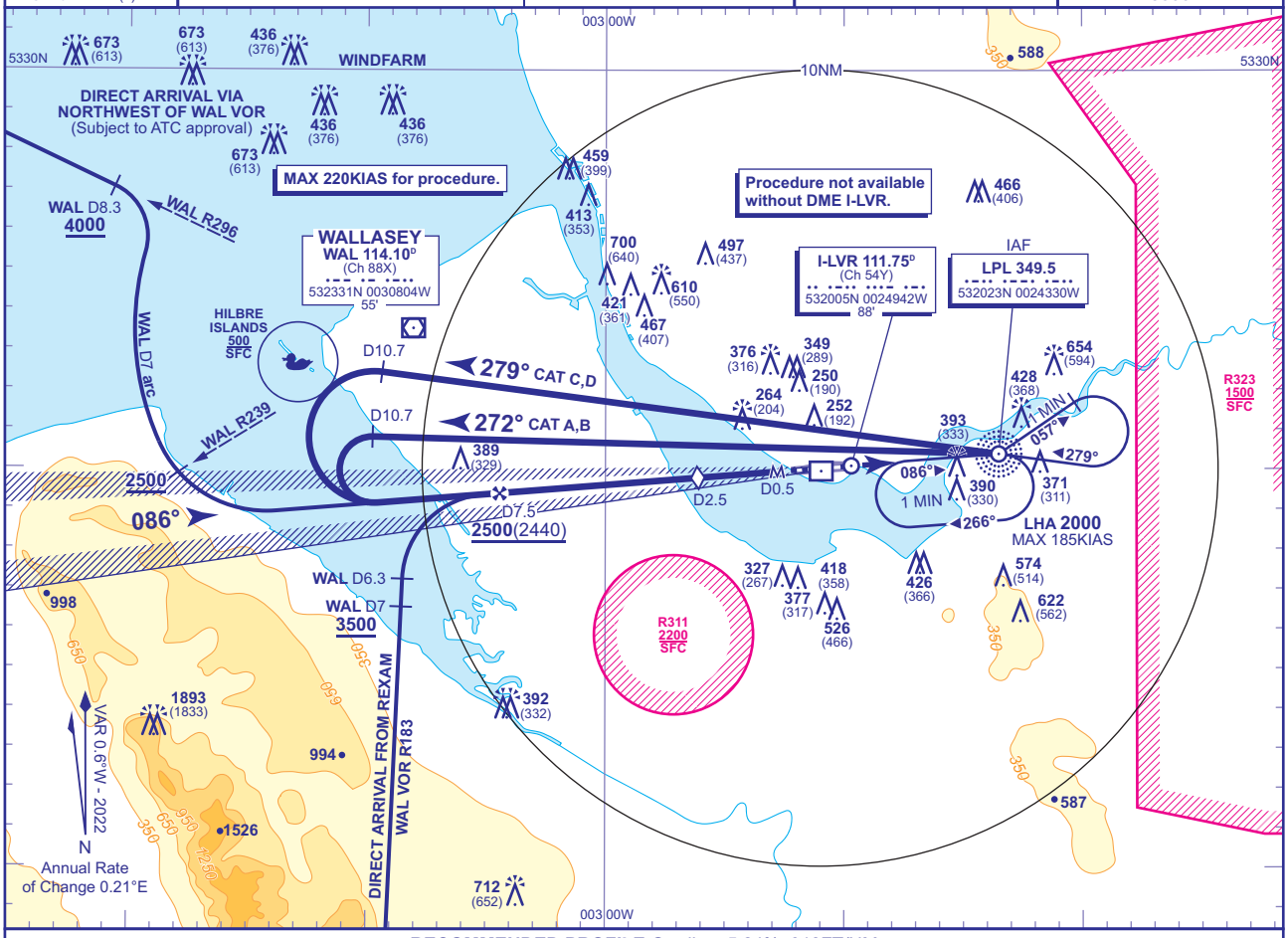
INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL LOC/DME/NDB(L) RWY 09
(ACFT CAT A,B,C,D)

APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	60	
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 1893 AMSL (1833) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		

MSA 25NM NDB(L) LPL

TRANSITION ALTITUDE **5000**



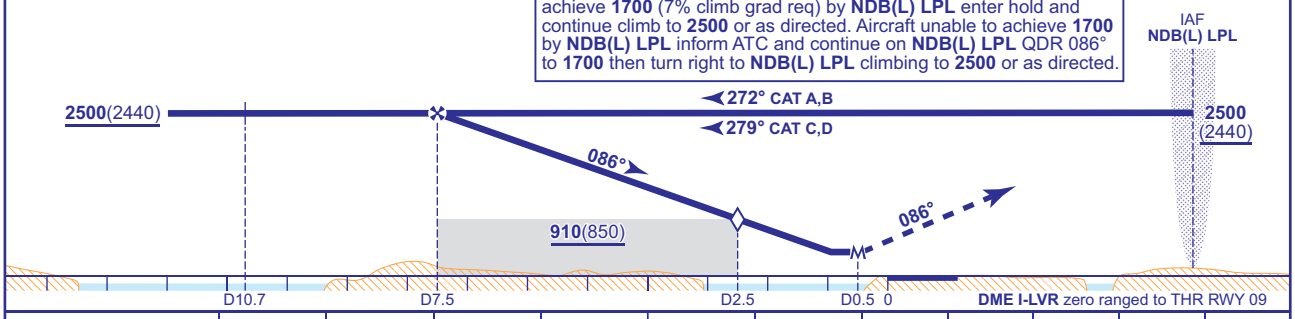
RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-LVR	7	6	5	4	3	2	1
ALT(HGT)	**2340**(2280)	**2020**(1960)	**1700**(1640)	**1390**(1330)	**1070**(1010)	**750**(690)	**430**(370)

Arrival **not below 2500** or higher **MSA**. Shuttle in hold as required.

MAPt I-LVR DME 0.5

Climb straight ahead to **NDB(L) LPL** climbing to **2500**. Aircraft which achieve **1700** (7% climb grad req) by **NDB(L) LPL** enter hold and continue climb to **2500** or as directed. Aircraft unable to achieve **1700** by **NDB(L) LPL** inform ATC and continue on **NDB(L) LPL** QDR 086° to **1700** then turn right to **NDB(L) LPL** climbing to **2500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**420**(360)	**420**(360)	**420**(360)	**420**(360)
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

DIRECT ARRIVAL VIA REXAM
When cleared by ATC, from REXAM (IAF) (WAL VOR R183 WAL DME 19.6) continue inbound on WAL VOR R183. From WAL DME 16 descend **not below 3500**, after crossing WAL DME 7 continue descent to **2500**. See plan for continuation.

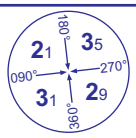
NOTE 1 Aircraft commencing the procedure from the NDB(L) LPL hold fly outbound on NDB(L) LPL QDR 057° for 1 MIN then base turn right to establish on QDM 099° inbound to NDB(L) LPL. From overhead NDB(L) LPL establish outbound on QDR appropriate to aircraft category.
2 Distance from NDB(L) LPL overhead to base turn left at I-LVR DME D10.7 is 15.7NM.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24 AD 2-EGGP-8-2

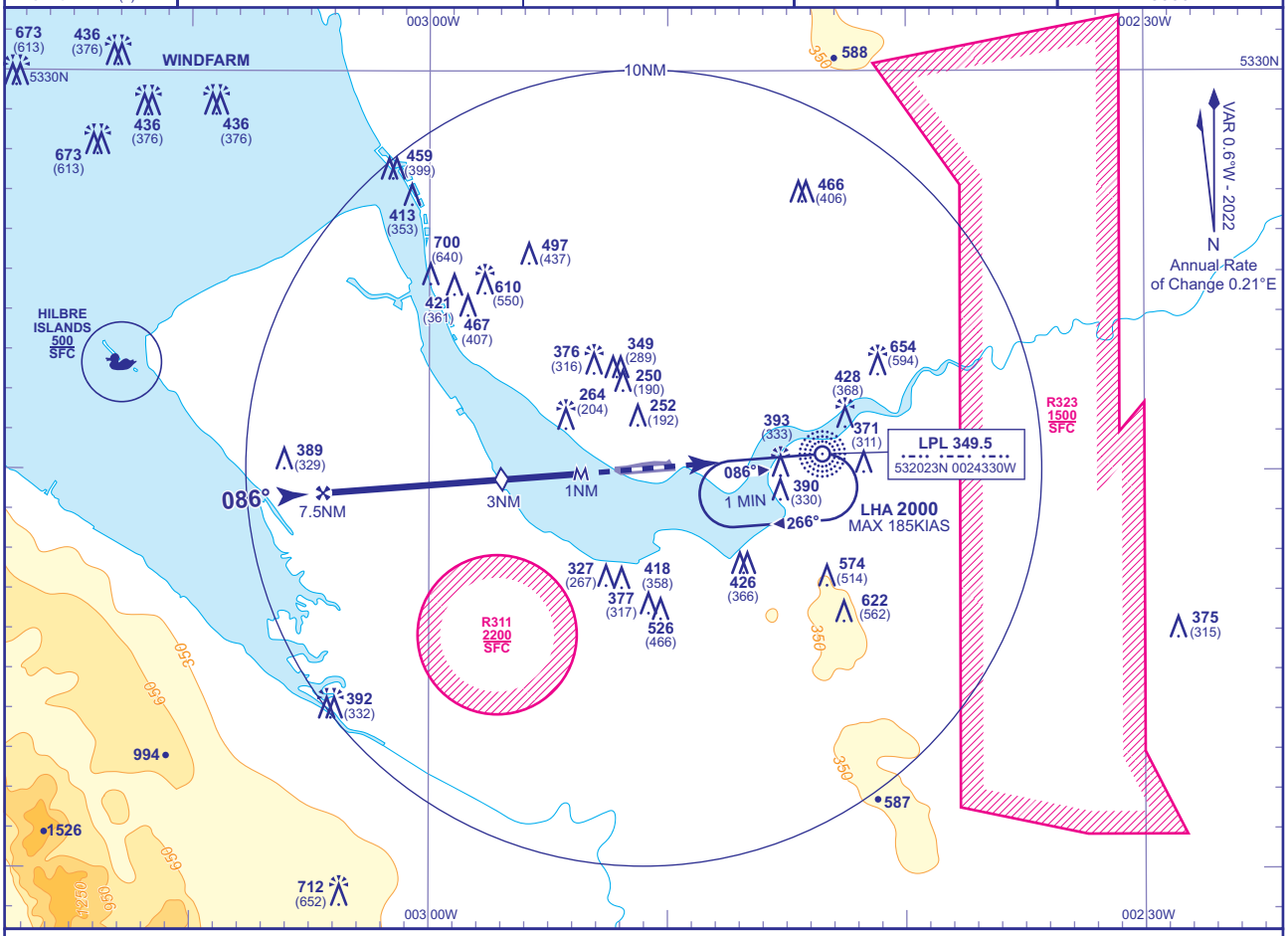
INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL
SRA RTR 2NM
RWY 09
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LPL

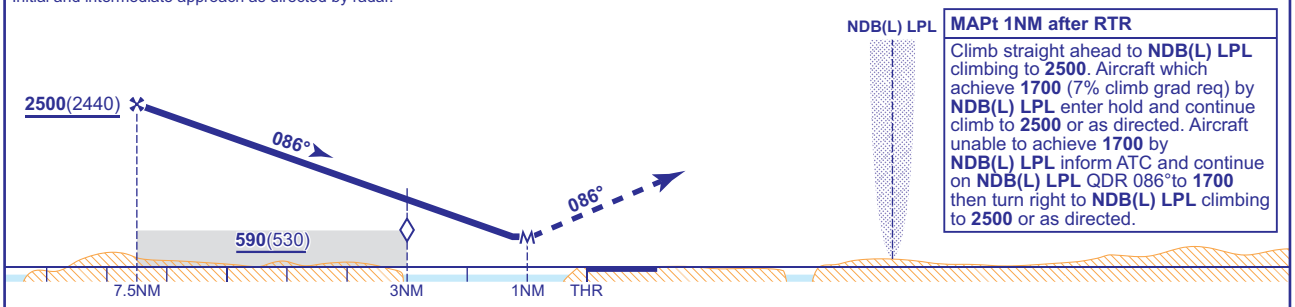
APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	TRANSITION ALTITUDE 5000
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	60	
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 712 AMSL (652) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		



RADAR ADVISORY HEIGHTS Gradient 5.24%, 318FT/NM

NM	7.0	6.0	5.0	4.0	3.0 **(SDF)**	2.0
ALT(HGT)	**2340**(2280)	**2020**(1960)	**1710**(1650)	**1390**(1330)	**1070**(1010)	**750**(690)

Initial and intermediate approach as directed by radar.



MAPt 1NM after RTR

Climb straight ahead to **NDB(L) LPL** climbing to **2500**. Aircraft which achieve **1700** (7% climb grad req) by **NDB(L) LPL** enter hold and continue climb to **2500** or as directed. Aircraft unable to achieve **1700** by **NDB(L) LPL** inform ATC and continue on **NDB(L) LPL** QDR 086°to **1700** then turn right to **NDB(L) LPL** climbing to **2500** or as directed.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**560**(500)	**560**(500)	**560**(500)	**560**(500)		FT/MIN	850	740	640	530	420
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)	RTR to MAPt	MIN:SEC	0:22	0:25	0:30	0:36	0:45

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24

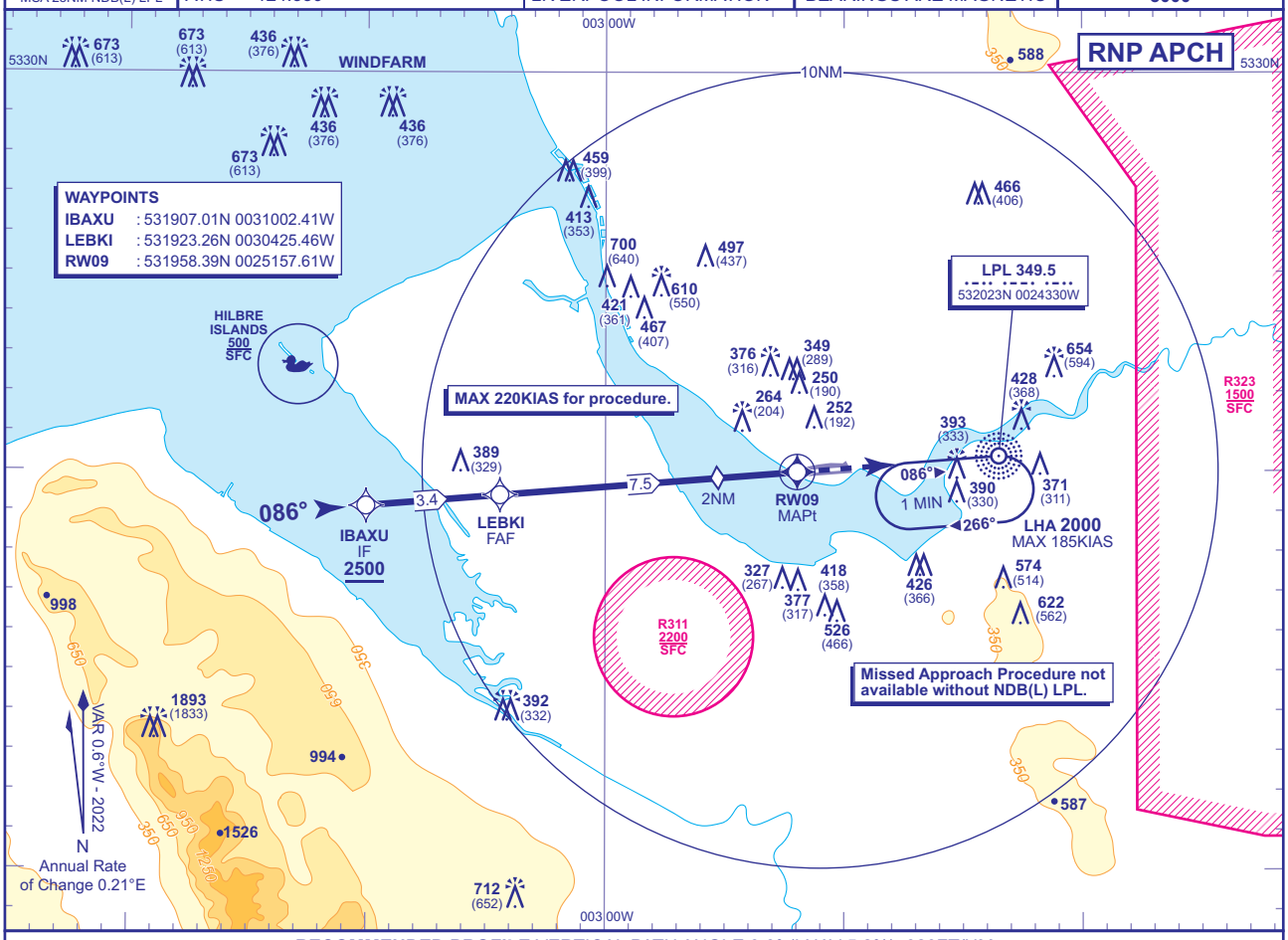
AD 2-EGGP-8-3

INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL RNP RWY 09
(ACFT CAT A,B,C,D)

APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	MIN TEMP -15°C
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	60	TRANSITION ALTITUDE 5000
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 1893 AMSL (1833) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		

MSA 25NM NDB(L) LPL



RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.0° (LNAV 5.2%), 320FT/NM

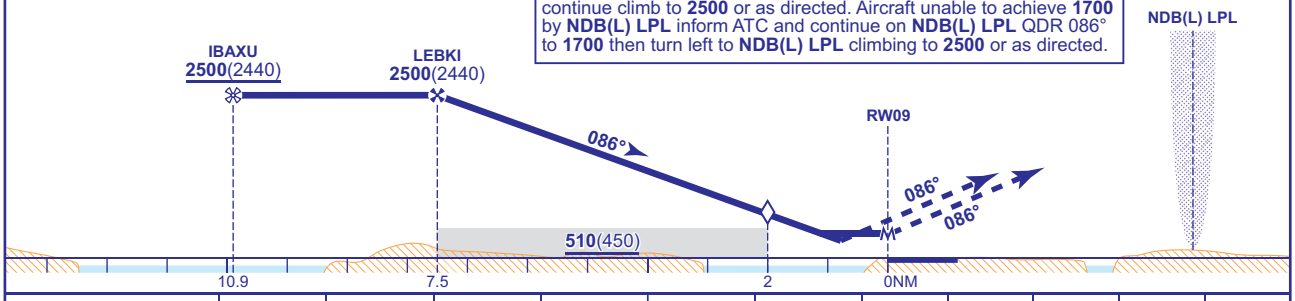
NM to RW09	7	6	5	4	3	2 (SDF)	1
ALT(HGT)	**2340**(2280)	**2020**(1960)	**1700**(1640)	**1390**(1330)	**1070**(1010)	**750**(690)	**430**(370)

Arrival **not below 2500** or higher **MSA**.

TCH 54

MAPt (LNAV) RW09

Climb straight ahead to **NDB(L) LPL** climbing to **2500**. Aircraft which achieve **1700** (7% climb grad req) by **NDB(L) LPL** enter hold and continue climb to **2500** or as directed. Aircraft unable to achieve **1700** by **NDB(L) LPL** inform ATC and continue on **NDB(L) LPL** QDR 086° to **1700** then turn left to **NDB(L) LPL** climbing to **2500** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**360**(300)	**360**(300)	**360**(300)	**360**(300)		FT/MIN	850	740	640	530	420
	LNAV	**430**(370)	**430**(370)	**430**(370)	**430**(370)							
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)							

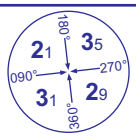
NOTE 1 Missed approach shall be converted to a conventional missed approach upon reaching **1700**.
2 Continuous final descent (in accordance with EU-OPS 1.43(d)) is available by request to ATC.
3 Procedure is only available when Liverpool RADAR is operational.
4 Pilots to request RNP approach on first call.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24

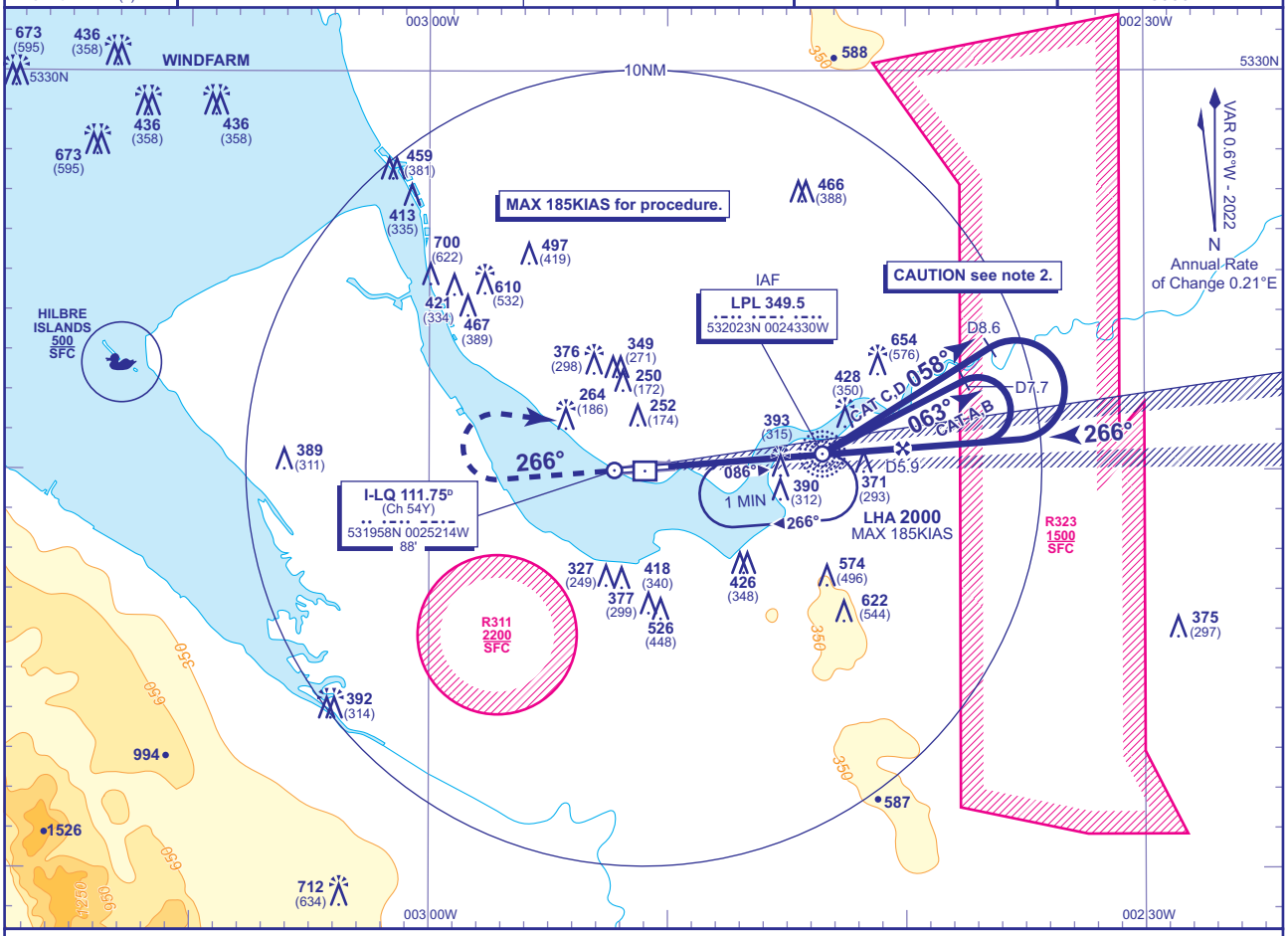
INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL ILS/DME/NDB(L) RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LPL

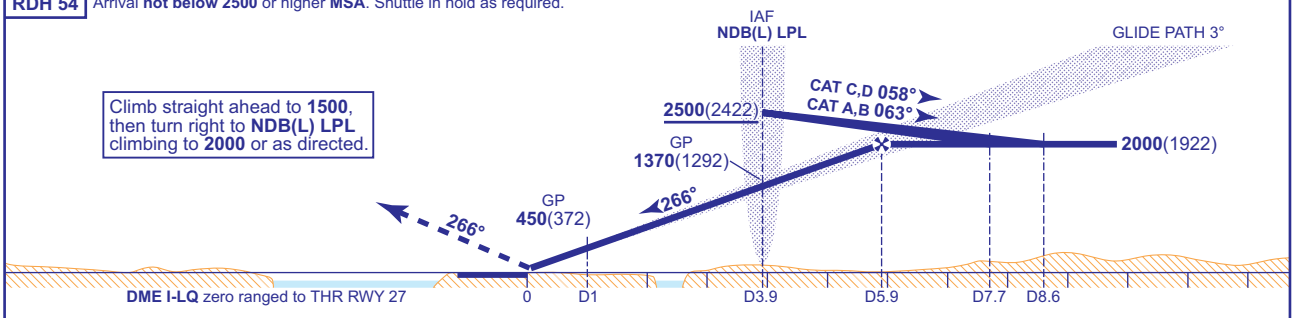
APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	TRANSITION ALTITUDE 5000
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	78	
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 712 AMSL (634) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-LQ	5	4	3	2	1
ALT(HGT)	**1720**(1642)	**1400**(1322)	**1090**(1012)	**770**(692)	**450**(372)

RDH 54 Arrival **not below 2500** or higher **MSA**. Shuttle in hold as required.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**229**(151)	**238**(160)	**250**(172)	**263**(185)
	CAT II	**134**(56)	**145**(67)	**159**(81)	**178**(100)
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-LQ (Inform ATC prior to commencement)
As for main procedure except fly outbound from NDB(L) LPL for 1.5 MIN prior to base turn. When established on LOC, descend on glide path to DH.

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 When receiving radar vectors for RWY 27 approaches, pilots should question ATC if no base leg turn has been passed by the time the aircraft reaches **I-LQ** D8 east of the airfield, due to proximity of the Manchester CTA.

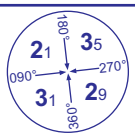
CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24

AD 2-EGGP-8-5

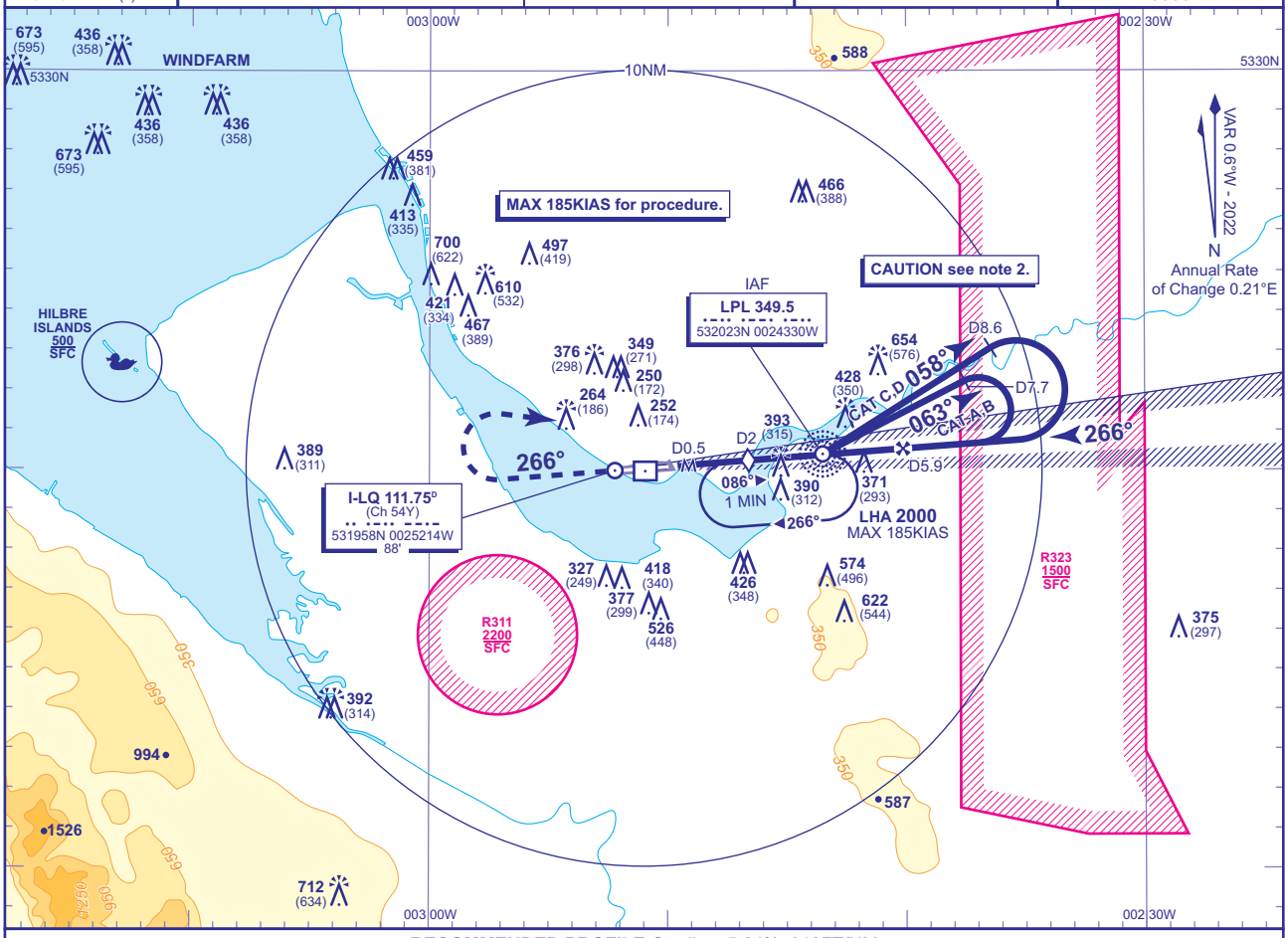
INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL LOC/DME/NDB(L) RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LPL

APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	TRANSITION ALTITUDE 5000
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	78	
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 712 AMSL (634) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		

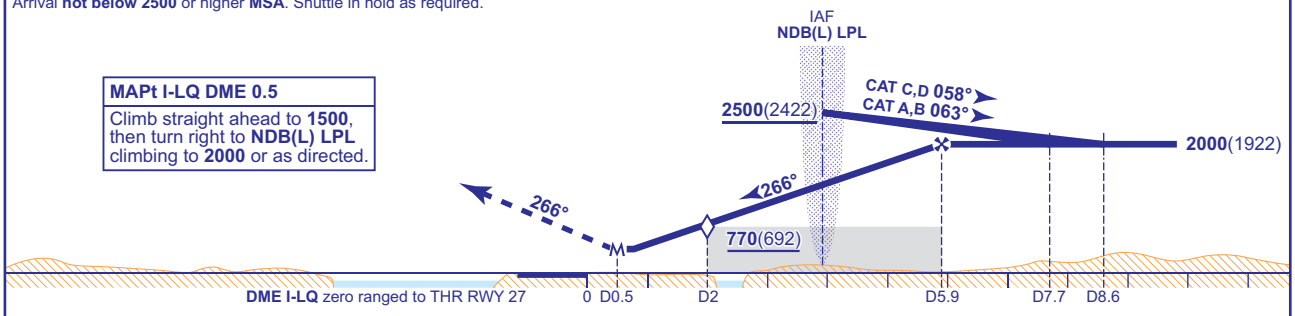


RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-LQ	5	4	3	2 (SDF)	1
ALT(HGT)	**1720**(1642)	**1400**(1322)	**1090**(1012)	**770**(692)	**450**(372)

Arrival **not below 2500** or higher **MSA**. Shuttle in hold as required.

MAPt I-LQ DME 0.5
Climb straight ahead to **1500**, then turn right to **NDB(L) LPL** climbing to **2000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	WITH DME	**420**(342)	**420**(342)	**420**(342)	**420**(342)		FT/MIN	850	740	630	530	420
	NO DME	**770**(692)	**770**(692)	**770**(692)	**770**(692)							
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)	NDB(L) LPL to MAPt	MIN:SEC	1:16	1:27	1:42	2:02	2:33

AIRCRAFT UNABLE TO RECEIVE DME I-LQ
Fly outbound on baseturn procedure for 1.5 MIN before turning right to establish on LOC. Once established, descend to cross SDF overhead NDB(L) LPL **not below 1370**(1292) and thence to OCA(H).

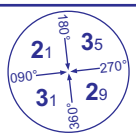
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 When receiving radar vectors for RWY 27 approaches, pilots should question ATC if no base leg turn has been passed by the time the aircraft reaches **I-LQ** D8 east of the airfield, due to proximity of the Manchester CTA.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24 AD 2-EGGP-8-6

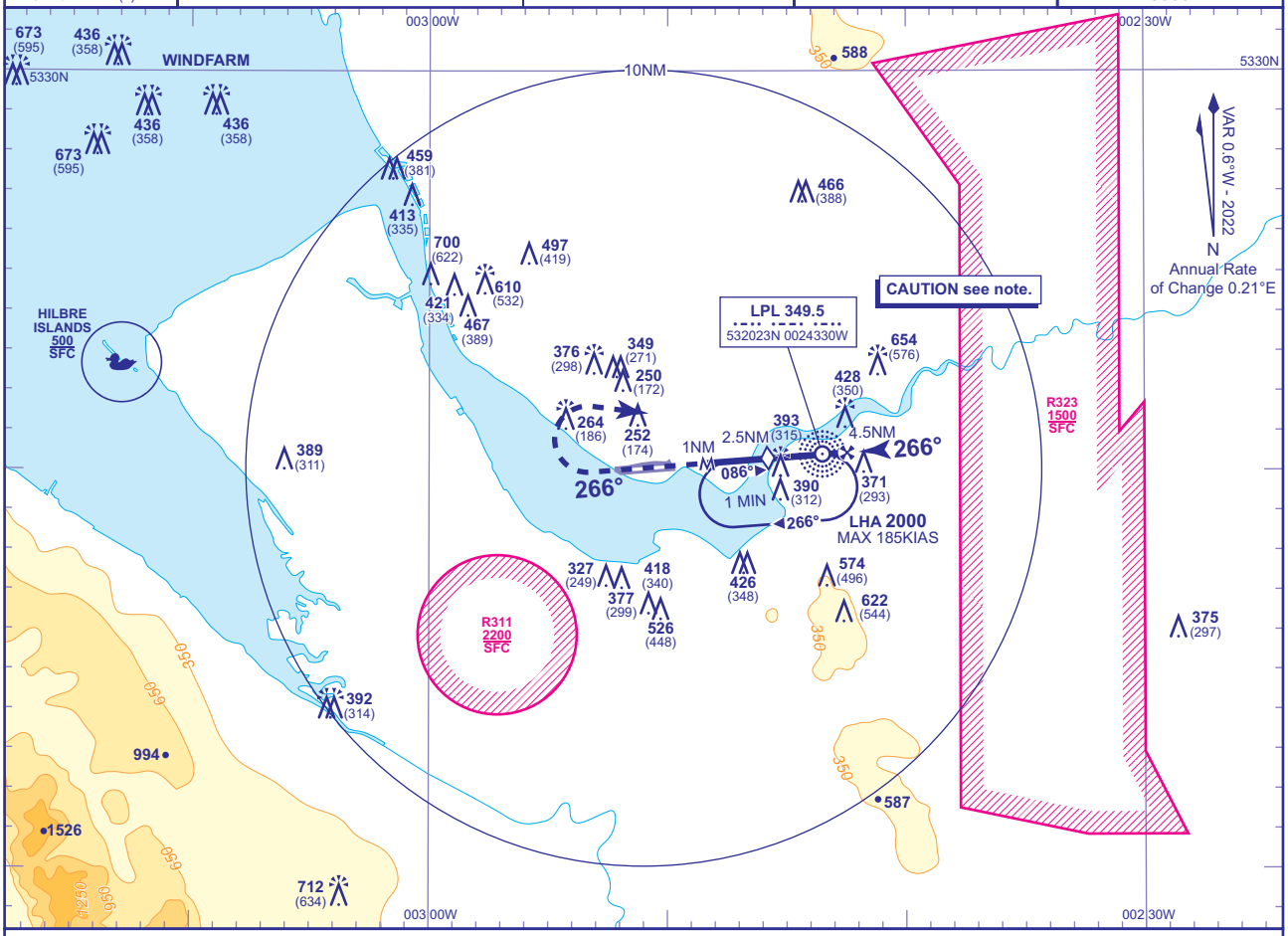
INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL SRA RTR 2NM RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LPL

APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	TRANSITION ALTITUDE 5000
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	78	
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 712 AMSL (634) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		

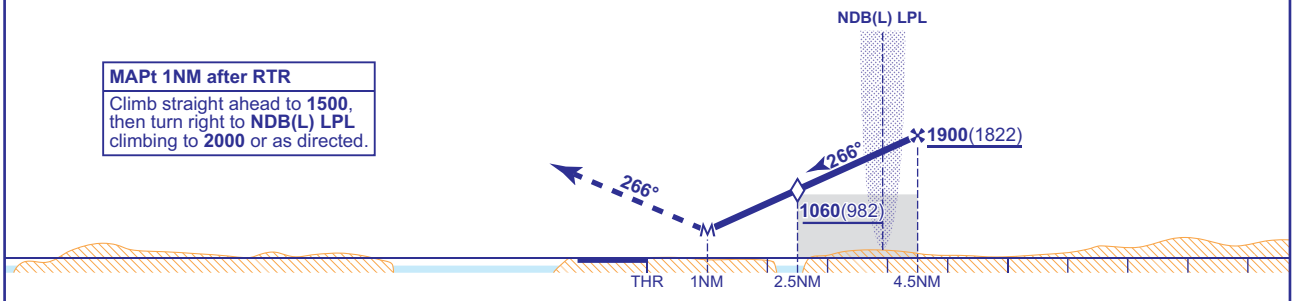


RADAR ADVISORY HEIGHTS Gradient 6.47%, 393FT/NM

NM	4.0	3.0	2.5 **(SDF)**	2.0	1.0
ALT(HGT)	**1700**(1622)	**1310**(1232)	**1110**(1032)	**920**(842)	**470**(392)

Initial and intermediate approach as directed by radar.

MAPt 1NM after RTR
Climb straight ahead to **1500**, then turn right to **NDB(L) LPL** climbing to **2000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**500**(422)	**500**(422)	**500**(422)	**500**(422)		FT/MIN	1050	920	790	660	520
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)	RTR to MAPt	MIN:SEC	0:22	0:25	0:30	0:36	0:45

NOTE When receiving radar vectors for RWY 27 approaches, pilots should question ATC if no base leg turn has been passed by the time the aircraft reaches **I-LQ** D8 east of the airfield, due to proximity of the Manchester CTA.

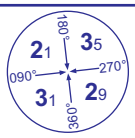
CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24

AD 2-EGGP-8-7

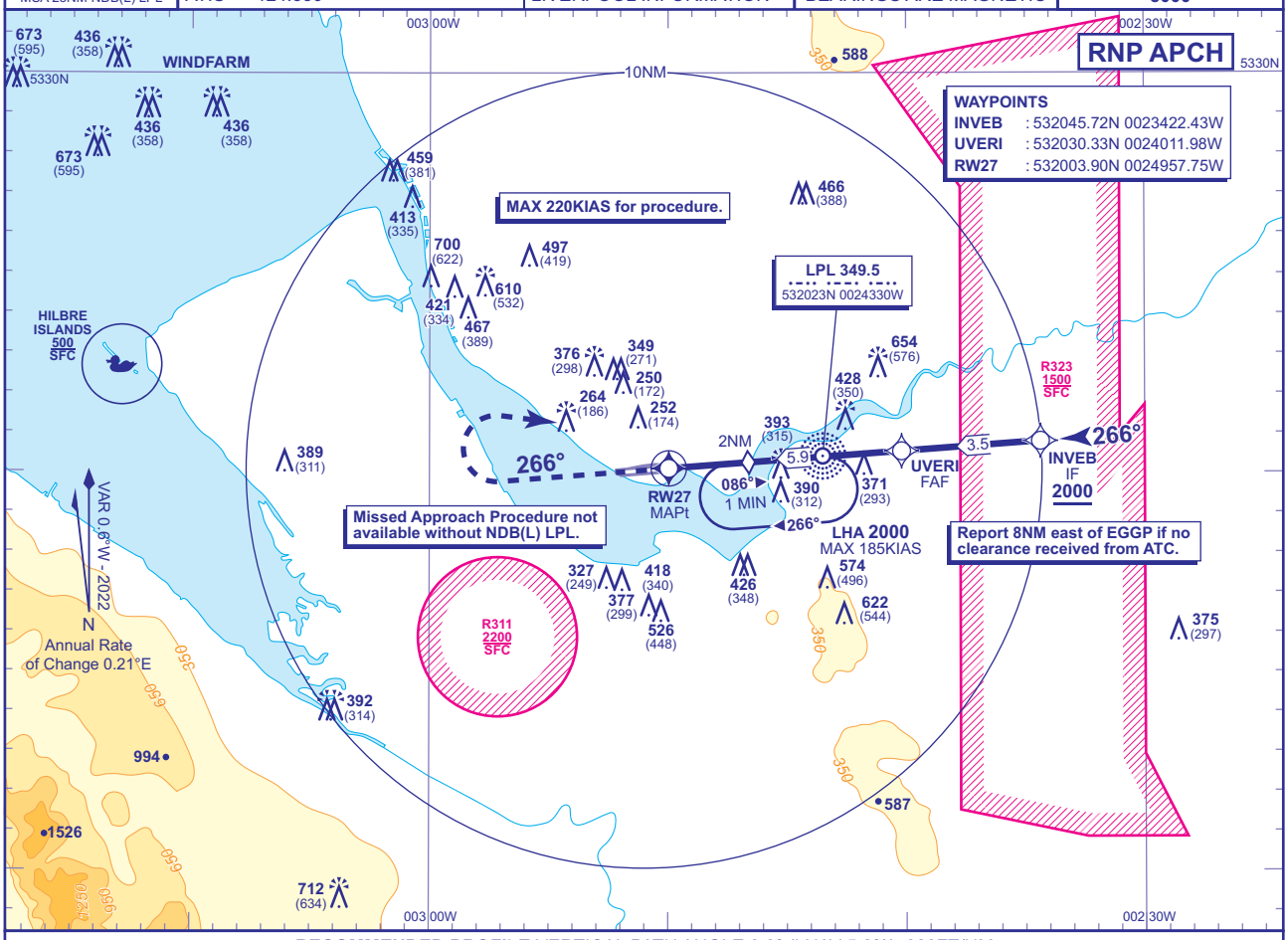
INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL
RNP
RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LPL

APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	MIN TEMP -15°C
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	78	TRANSITION ALTITUDE 5000
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 712 AMSL (634) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		



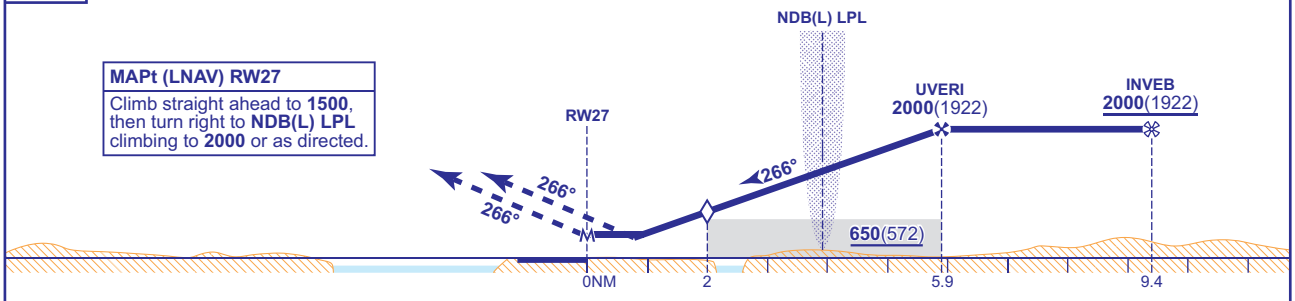
RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.0° (LNAV 5.2%), 320FT/NM

NM to RW27	5	4	3	2 (SDF)	1
ALT(HGT)	1720(1642)	1400(1322)	1090(1012)	770(692)	450(372)

TCH 54

Arrival **not below 2500** or higher **MSA**.

MAPt (LNAV) RW27
Climb straight ahead to **1500**, then turn right to **NDB(L) LPL** climbing to **2000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	390(312)	390(312)	390(312)	390(312)
	LNAV	460(382)	460(382)	460(382)	460(382)
VM(C)OCA (OCH AAL)	Total Area	550(469)	670(589)	930(849)	970(889)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

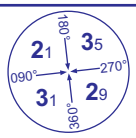
NOTE 1 Missed approach shall be converted to a conventional missed approach upon reaching **1500**.
2 Procedure is only available when Liverpool RADAR is operational.
3 Pilots to request RNP approach on first call.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 06 DEC 24

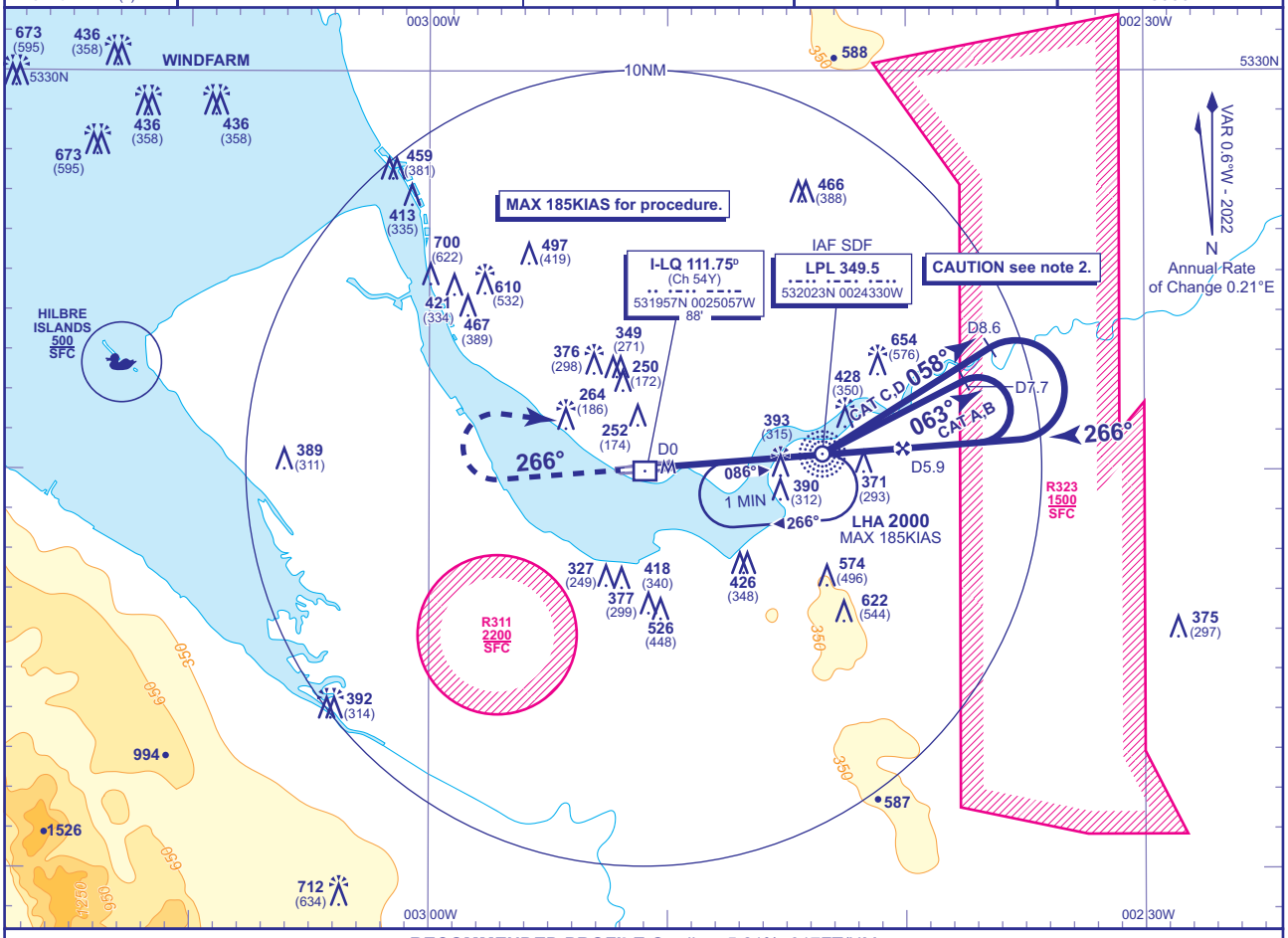
INSTRUMENT APPROACH CHART - ICAO

LIVERPOOL NDB(L)/DME RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LPL

APP	119.855	LIVERPOOL APPROACH	AD ELEVATION	81	TRANSITION ALTITUDE 5000
TWR	126.355	LIVERPOOL TOWER	THR ELEVATION	78	
	121.955	LIVERPOOL GROUND	OBSTACLE ELEVATION 712 AMSL (634) (ABOVE THR)		
RAD	118.455, 119.855	LIVERPOOL RADAR			
ATIS	124.330	LIVERPOOL INFORMATION	BEARINGS ARE MAGNETIC		



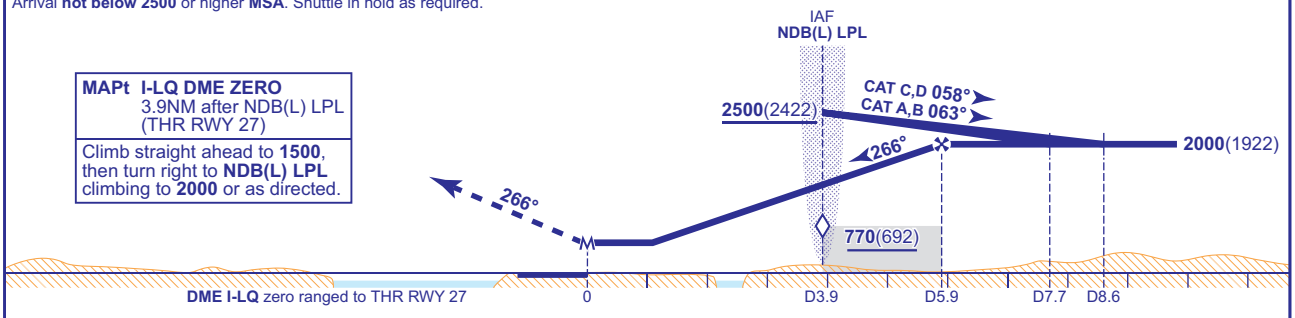
RECOMMENDED PROFILE Gradient 5.21%, 317FT/NM

DME I-LQ	5	4	3.9 **(SDF)**	3	2
ALT(HGT)	**1720**(1642)	**1400**(1322)	**1370**(1292)	**1080**(1002)	**770**(692)

Arrival **not below 2500** or higher **MSA**. Shuttle in hold as required.

MAPt I-LQ DME ZERO
3.9NM after NDB(L) LPL (THR RWY 27)

Climb straight ahead to **1500**, then turn right to **NDB(L) LPL** climbing to **2000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	**640**(562)	**640**(562)	**640**(562)	**640**(562)		FT/MIN	850	740	630	530	420
VM(C)OCA (OCH AAL)	Total Area	**550**(469)	**670**(589)	**930**(849)	**970**(889)	NDB(L) LPL to MAPt (3.9NM)	MIN:SEC	1:27	1:40	1:57	2:20	2:55

AIRCRAFT UNABLE TO RECEIVE DME I-LQ
Fly outbound on baseturn procedure for 1.5 MIN before turning right to establish on FAT. Then continue as for main procedure.

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 When receiving radar vectors for RWY 27 approaches, pilots should question ATC if no base leg turn has been passed by the time the aircraft reaches **I-LQ** D8 east of the airfield, due to proximity of the Manchester CTA.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 27 NOV 24

AD 2-EGGP-8-9

Instrument Approach Procedure Coding Tables

Liverpool RNP RWY 09 - Instrument Approach Procedure via IBAXU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09	001	IF	IBAXU	N	-	-	2500	220	531907.01N 0031002.41W	IF / 10.9NM
R09	002	TF	LEBKI	N	086° (085.40°)	-	2500	-	531923.26N 0030425.46W	FAF / 7.5NM
R09	003	TF	RW09	Y	086° (085.40°)	-	-	-	531958.39N 0025157.61W	MAPt
R09	004	CA	-	N	086° (085.40°)	-	1700	-	-	At 1700 revert to conventional navigation

CHANGE (6/21): MAG VAR. MAG TRACKS.
AERO INFO DATE 23 MAR 21

Instrument Approach Procedure Coding Tables

Liverpool RNP RWY 27 - Instrument Approach Procedure via INVEB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27	001	IF	INVEB	N	-	-	2000	220	532045.72N 0023422.43W	IF / 9.4NM
R27	002	TF	UVERI	N	266° (265.80°)	-	2000	-	532030.33N 0024011.98W	FAF / 5.9NM
R27	003	TF	RW27	Y	266° (265.80°)	-	-	-	532003.90N 0024957.75W	MAPt
R27	004	CA	-	N	266° (265.80°)	-	1500	-	-	At 1500 revert to conventional navigation

CHANGE (6/21): MAG VAR. MAG TRACKS.
AERO INFO DATE 23 MAR 21

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EGLC — LONDON CITY

EGLC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGLC — LONDON CITY

EGLC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513019N Long: 0000319E Mid point of Runway 09/27.
2	Direction and distance from city	6 NM E of City of London.
3	Elevation / Reference temperature / Mean Low Temperature	20 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	149 FT
5	Magnetic Variation / Annual Change	0.59°E (2022) / 0.19°E
6	AD Administration Address Telephone Telefax	LONDON CITY AIRPORT LTD Royal Docks, Silvertown, London E16 2PX. 01489-571177 (ATC) 020-7646 0000 (Administration) 020-7511 1040 (Administration) 020-7511 0248 (Ops/FBU)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All telephone calls to ATC are recorded.

EGLC AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0630-2200 (0530-2100); Sat 0630-1230 (0530-1130); Sun 1230-2200 (1130-2100); PH 0900-2200 (0800-2100).
2	Customs and immigration	Mon-Fri 0630-2230 (0530-2130); Sat 0630-1330 (0530-1230); Sun and PH 0900-2300 (0800-2200). Prior notice required by 1400 (1300) on previous day.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As aerodrome hours.
7	ATS	As aerodrome hours. See also AD 2.18.
8	Fuelling	As aerodrome hours.
9	Handling	As aerodrome hours.
10	Security	As aerodrome hours.
11	De-icing	As aerodrome hours.
12	Remarks	Aerodrome Hours are maximum permitted for scheduling purposes. No static customs presence, contact Waterloo International Terminal: 020-7919 6710.

EGLC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1
3	Fuelling facilities/capacity	Road Tanker up to 37,500 LT.
4	De-icing facilities	Available via handling agent.
5	Hangar space for visiting aircraft	None.
6	Repair facilities for visiting aircraft	Available by arrangement.
7	Remarks	A nominated handling agent is mandatory for all visiting aircraft. Handling for corporate and General Aviation by arrangement with London City Airport Jet Centre, Tel: 020-7646 0400; Fax: 020-7646 0450; SITA: LCYGAXH

EGLC AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the vicinity
2	Restaurants	Restaurant, buffet bar.
3	Transportation	Trains, buses, taxis, hire cars. Nearest railway station: London City Airport (Docklands Light Railway).
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Bureau de Change.
6	Tourist Office	
7	Remarks	

EGLC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6
2	Rescue equipment	Water borne rescue equipment as per Aerodrome Manual.
3	Capability for removal of disabled aircraft	Limited facilities available
4	Remarks	RFFS available throughout aerodrome operating hours.

EGLC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard
3	Remarks	

EGLC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	EAST APRON Surface: Concrete MAIN APRON (STAND 10) Surface: Concrete PCR 387/R/C/Y/U MAIN APRON (STANDS 3-9) Surface: Concrete PCR 285/R/C/Y/U
2	Taxiway width, surface and strength	Taxiway TANGO (BTN A-D): 15 M Surface: Concrete PCR 440/R/B/W/T Taxiway TANGO (BTN D-E): 22 M Surface: Concrete Taxiway TANGO (BTN E-M): 18 M Surface: Concrete Taxiway TANGO (BTN T1-A): 16 M Surface: Concrete PCR 285/R/C/Y/U
3	Altimeter checkpoint location and elevation	Apron 17 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	

EGLC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Self-manoeuvring stand marking (with marshalling assistance).

2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: Runway threshold. Runway designators. Aiming point and TDZ markings. Taxiway marking aid(s): Yellow centre-line. Enhanced taxiway centre-line markings in place on all taxiways. Taxiway light(s): Green centre-line lights with amber Intermediate Hold Point lighting.
3	Stop bars and runway guard lights (if any)	Red stop bars and co-located runway guard lights on access taxiways.
4	Other runway protection measures	
5	Remarks	Taxiway: Apron and access taxiways green centre-line lights augmented with blue edge lights on curves. Selectable lead-on lights. Blue edge lights on edges of runway turning areas and apron. WDI (LGTD): 513020.59N 0000338.46E; 513021.74N 0000301.74E.

EGLC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(TC2 GALLIONS 3B) 27/APPROACH 09/TAKE-OFF	CRANE	513027.14N 0000443.86E	244 FT	222 FT	Yes Red	End estimated December 2024.
(2024/CR/082) 09/APPROACH	CRANE	513026N 0000110W	629 FT	613 FT	Yes Red	Upper Bank Street, London, E14. End estimated September 2027.
(2024/CR/082) 09/APPROACH	CRANE	513026N 0000110W	636 FT	620 FT	Yes Red	Upper Bank Street, London, E14. End estimated September 2027.
(2024/CR/082) 09/APPROACH	CRANE	513025N 0000110W	641 FT	635 FT	Yes Red	Upper Bank Street, London, E14. End estimated September 2027.
(EGLC5562) 09/APPROACH 27/ TAKE-OFF	BRIDGE TOWER	513023.39N 0000223.63E	77 FT	62 FT	No	
(EGLC1677) 09/APPROACH 27/ TAKE-OFF	BUILDING	513020.32N 0000101.22W	703 FT	680 FT	Yes Red	
(EGLC6407) 09/APPROACH 27/ TAKE-OFF	BUILDING UNDER DEMOLITION	513019.99N 0000152.23E	94 FT	80 FT	No	
(EGLC2064) 09/APPROACH 27/ TAKE-OFF	BUILDING	513019.58N 0000049.73W	528 FT	515 FT	No	
(EGLC1198) 09/APPROACH 27/ TAKE-OFF	BUILDING	513019.38N 0000152.00E	170 FT	151 FT	No	
(EGLC1073) 09/APPROACH 27/ TAKE-OFF	BUILDING	513019.16N 0000149.65E	178 FT	161 FT	No	
(EGLC1100) 09/APPROACH 27/ TAKE-OFF	CANARY WHARF TOWER	513017.79N 0000110.16W	806 FT	775 FT	Yes Red	
(EGLC3043) 09/APPROACH 27/ TAKE-OFF	BUILDING	513016.08N 0000511.20W	1015 FT	1002 FT	Yes Red	
(EGLC1676) 09/APPROACH 27/ TAKE-OFF	BUILDING	513013.43N 0000103.45W	692 FT	661 FT	Yes Red	
(EGLC2107) 09/APPROACH 27/ TAKE-OFF	BUILDING	513011.57N 0000112.65W	524 FT	501 FT	No	
09/APPROACH	CRANE	513007.00N 0000043.00W	640 FT	634 FT	Yes Red	Wood Wharf.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	CRANE	513232.00N 0000008.00W	610 FT	593 FT	Yes Red	Meridain Steps, Great Eastern Road, Stratford. End estimated February 2028.
	CRANE	513043.10N 0000132.15E	292 FT	287 FT	Yes Steady red	Canning town. End estimated July 2025.
2024/CR/099	CRANE	513028N 0000339E	185 FT	170 FT	Yes Red	Royal Albert way E16. End estimated August 2025.
(EGLC3261)	MARINE RADAR	513028.07N 0000446.02E	239 FT	222 FT	No	
2025/CR/021	CRANE	513025.0N 0000033.0W	560 FT	543 FT	Yes Red	Trafalgar Way E14. End estimated January 2026.
2025/CR/021	CRANE	513025.0N 0000035.0W	582 FT	568 FT	Yes Red	Trafalgar Way E14. End estimated January 2026.
(EGLC5502)	ATC TOWER	513014.46N 0000300.35E	68 FT	51 FT	Yes Red	
(EGLC5170)	REMOTE TOWER AERIAL	513010.47N 0000320.07E	192 FT	174 FT	Yes Red	
2024/CR/059	CRANE	513003N 0000219E	196 FT	184 FT	Yes Red	Thames Road, Silvertown. End estimated August 2027.
	CRANE	513003.6N 0000122.0W	776 FT	768 FT	Yes	Consort Place.
	CRANE	513003.0N 0000122.6W	590 FT	581 FT	Yes	Consort Place.
(EGLC5501)	INDUSTRIAL CHIMNEY	513000.81N 0000252.87E	307 FT	294 FT	Yes Red	
(EGLC1020)	INDUSTRIAL CHIMNEY	513000.65N 0000254.16E	307 FT	296 FT	Yes Red	
2024/CR/088	CRANE	512956N 0000336E	208 FT	203 FT	Yes Red	Store Road, North Woolwich. End estimated October 2025.
	CRANE	512944.0N 0000036.0E	496 FT	481 FT	Yes Red	Greenwich Peninsula. End estimated September 2025.
2024/CR/054	CRANE	512939.40N 0000347.04W	606 FT	598 FT	Yes Red	Clements Road, Bermondsey. End estimated June 2026.
2024/CR/054	CRANE	512938.70N 0000345.38W	606 FT	596 FT	Yes Red	Clements Road, Bermondsey. End estimated June 2026.
2024/CR/054	CRANE	512937.52N 0000344.84W	528 FT	521 FT	Yes Red	Clements Road, Bermondsey. End estimated June 2026.
2024/CR/081	CRANE	512932N 0000406E	321 FT	285 FT	Yes Red	Beresford Street, Woolwich. End estimated November 2025.
2024/CR/081	CRANE	512932N 0000406E	357 FT	322 FT	Yes Red	Beresford Street, Woolwich. End estimated November 2025.
	CRANE	512929.64N 0000253.39E	314 FT	293 FT	Yes Red	Woodhill.
	CRANE	512922.0N 0000406.0E	344 FT	302 FT	Yes Red	Woolwich. End estimated January 2025.
(EGLC6273)	MAST	512806.22N 0000356.48E	569 FT	154 FT	Yes Red	

EGLC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	Automated recording telephone (ATIS): +44 (0)207-511 6055.
9	ATS units provided with information	LONDON CITY
10	Additional information (limitation of service, etc.)	RVR 25-1500 M.

EGLC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
09	092.87°	1508 x 30 M	RWY surface: Asphalt, Grooved PCR 318/F/C/W/U	513020.06N 0000239.58E 149.2 FT	THR 19.4 FT TDZ 19.5 FT	
27	272.89°	1508 x 30 M	RWY surface: Asphalt, Grooved PCR 318/F/C/W/U	513017.60N 0000357.68E 149.1 FT	THR 20.0 FT TDZ 20.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
295 x 30 M	258 x 150 M	1628 x 150 M	120 x 90 M -	An engineered Material Arresting System (EMAS) is located within each runway overrun. RWY 09 overrun EMAS bed is 91.3 M x 32 M. RWY 27 overrun bed is 82.7 M x 32 M.		RWY 09 Runway End Safety Areas (Overrun) are provided as follows: Runway 09: 113 x 60 M, of which first 22 M is grooved asphalt then 91 x 32 M EMAS bed. Overshoot RESA EMAS installation equivalent to 240 M RESA. In the event of an overrun, it is designed to crush under the weight of the aircraft, quickly decelerating the aircraft and bringing it to a safe stop, whilst causing minimal damage to the aircraft. The EMAS is equivalent to a 240 M RESA. Pilots are advised to not attempt to avoid the system or move the aircraft if it has entered the EMAS, maintain runway centreline and continue deceleration. Non-standard TDZ markings for both runways.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
309 x 30 M	216 x 150 M	1628 x 150 M	190 x 90 M -	An engineered Material Arresting System (EMAS) is located within each runway overrun. RWY 09 overrun EMAS bed is 91.3 M x 32 M. RWY 27 overrun bed is 82.7 M x 32 M.		RWY 27 Runway End Safety Areas (Overrun) are provided as follows: Runway 27: 146 x 60 M, of which first 63m is grooved asphalt then 83 x 32 M EMAS bed. Overshoot RESA EMAS installation equivalent to 240 M RESA. In the event of an overrun, it is designed to crush under the weight of the aircraft, quickly decelerating the aircraft and bringing it to a safe stop, whilst causing minimal damage to the aircraft. The EMAS is equivalent to a 240 M RESA. Pilots are advised to not attempt to avoid the system or move the aircraft if it has entered the EMAS, maintain runway centreline and continue deceleration. Non-standard TDZ markings for both runways.

EGLC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1199 M	1457 M	1494 M	1494 M	
27	1199 M	1415 M	1508 M	1508 M	

EGLC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Centre-line with two crossbars 15 M spacing. The approach and runway lighting and PAPI are set for 5.5° approach. 297 M Light intensity high	Green Light intensity high With HI elev green wingbars	PAPI Left/5.5° 49 FT 166 M	Two pairs of white inset HI lights on runway 477 M upwind of threshold mark end of TDZ's (see AD 2.20, paragraph 6).	Colour coded 15 M spacing Light intensity high	Bi-directional 30 M spacing. Light intensity high	Red		EDGE: Yellow runway edge lights for final 480 M of the full runway length.

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
27	Centre-line with one crossbar 15 M spacing. The approach and runway lighting and PAPI are set for 5.5° approach. 397 M Light intensity high	Green Light intensity high With HI green flush wingbars	PAPI Right/ 5.5° 49 FT 167 M	Two pairs of white inset HI lights on runway 475 M upwind of threshol d mark end of TDZ's (see AD 2.20, paragra ph 6).	Colour coded 15 M spacing Light intensity high	Bi-directional 30 M spacing. Light intensity high	Red		EDGE: Yellow runway edge lights for final 480 M of the full runway length.

EGLC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 513022.12N 0000247.13E (LGTD) - 513020.14N 0000350.28E (LGTD) - 513021.06N 0000319.42E (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes/1 second.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGLC AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	See AD 2.20, paragraph 5a.

EGLC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON/CITY CTR 513445N 0001108W - 513409N 0000826E thence clockwise by the arc of a circle radius 5 NM centred on 513019N 0000319E to 512610N 0000747E - 512640N 0000811W thence anti-clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 513445N 0001108W	Upper limit: 2500 FT ALT Lower limit: SFC	D	HEATHROW RADAR English	6000 FT		H24. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON/CITY ATZ A circle, 2 NM radius, centred at 513019N 0000319E on longest notified runway (09/ 27)	Upper limit: 2000 FT AGL Lower limit: SFC	D	HEATHROW RADAR English	6000 FT		H24.

EGLC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	THAMES DIRECTOR	132.700 Also used by Biggin Hill traffic.			0600-2300 (0500-2200).	
TWR	CITY GROUND	121.830 DOC 2 NM/GND.			As directed by ATC	Aircraft that are not equipped for 8.33 kHz frequencies cannot operate at this aerodrome.
	CITY TOWER	118.080 DOC 25 NM/4,000 FT.			Mon-Fri 0630-2230 (0530-2130); Sat 0630-1230 (0530-1130); Sun 1230-2230 (1130-2130); PH 0900-2230 (0800-2130). Hours are maximum consult latest NOTAM. See AD 2.3, item 12.	
		129.455 DOC 25 NM/4,000 FT.			As directed by ATC	
RADAR	HEATHROW RADAR	125.625			H24	
	THAMES DIRECTOR	128.025			As directed by ATC	
		132.700			0600-2300 (0500-2200).	
		133.455			As directed by ATC	
ATIS	CITY INFORMATION	136.355 If unavailable call Tower on 118.080 MHz. Thames Director will advise. DOC 60 NM/ 20,000 FT.			Mon-Fri 0630-2230 (0530-2130); Sat 0630-1230 (0530-1130); Sun 1230-2230 (1130-2100); PH 0900-2230 (0800-2100).	
OTHER	CITY FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGLC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.39°E (2027)	ILST	111.150 MHz	HO	513017.44N 0000403.03E		(RWY 09) Due to terrain, localizer front course coverage is restricted to 10 NM and to Sector 30° right to 35° left of the centre-line.
ILS/GP	ILST	331.550 MHz	HO	513021.77N 0000246.08E		5.5° ILS Ref Datum Hgt 35 FT. Pilots may not receive full fly up right of runway centre-line beyond 6.5 NM.
ILS/LOC I 1.39°E (2027)	ILSR	111.150 MHz	HO	513020.30N 0000231.79E		(RWY 27) Not to be used outside 30° left of centre-line. Pilots may not receive full fly right between 20° and 15° left of centre-line when beyond 6 NM. Localiser not to be used beyond 17 NM.
ILS/GP	ILSR	331.550 MHz	HO	513019.72N 0000351.26E		5.5° ILS Ref Datum Hgt 35 FT.
VOR/DME 1.22°E (2027) 0.8°E (2023)	LON	83X 113.600 MHz	H24	512914.09N 0002759.54W	113 FT	VOR DOC: 20 NM/50,000 FT (10 NM/50,000 FT in Sector R094-164, 35 NM/50,000 FT in Sector R064-094 and 40 NM/50,000 FT in Sector R254-289). There may be VOR bearing fluctuations in Sector R334-170. DME DOC: 40 NM/50,000 FT (100 NM/50,000 FT in Sector R179-254 and 80 NM/50,000 FT in Sector R254-314). DME unlocks may occur in the Sector R179-249 at ranges greater than 50 NM.
DME	ILST	48Y 111.150 MHz	HO	513022.05N 0000246.56E	42 FT	(RWY 09) On AD. DME freq paired with ILS I-LST. Zero ranged to THR of Runway 09.
DME	ILSR	48Y 111.150 MHz	HO	513020.02N 0000351.11E	40 FT	(RWY 27) On AD. DME freq paired with ILS I-LSR. Zero ranged to THR of Runway 27.
NDB 1.39°E (2027)	LCY	322.000 kHz	H24	513015.66N 0000403.01E		On AD. Range 10 NM.
VOR/DME 1.39°E (2027) 1.1°E (2024)	BIG	98X 115.100 MHz	H24	511951.15N 0000205.32E	589 FT	VOR DOC: 20 NM/50,000 FT (30 NM/50,000 FT in Sector R259-314 and 45 NM/50,000 FT in Sector R314-344). DME DOC: 60 NM/50,000 FT (125 NM/50,000 FT in Sector R284-044 and 100 NM/50,000 FT in Sector R044-134). Due to terrain, coverage at low level is reduced in Sector R114-219. In addition DME unlocks may occur in Sector R004-039 at ranges up to 25 NM.

EGLC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) No aeroplane registered in the United Kingdom shall use the aerodrome unless there is contained in its Flight Manual data and procedures for approach path angles of 5.5° or steeper and no other aeroplane shall use the aerodrome unless it has data and procedures

for approach path angles of 5.5° or steeper which have been approved or otherwise authorised by the regulatory authority of the State in which it is registered.

b) The use of the aerodrome is subject to prior permission of the Airport Director. Additionally operators of aircraft are required to satisfy the Airport Director that they are able to comply with local noise restrictions applicable to the airport.
c) Extensions to opening hours (shown by the latest NOTAM) are available on request to the Airport Director or his representative. Delayed aircraft may be permitted to operate 30 minutes beyond published maximum operating hours shown at AD 2.3 item 1 by prior arrangement.
d) Operations by all aircraft shall be permitted only when the runway is dry, or if wet devoid of other than small areas of water not exceeding 3 MM in depth. Operations will be prohibited when the runway is contaminated by ice or slush to a depth exceeding 3 MM, or dry snow to a depth of 10 MM, or the reported friction measurement is reported as worse than 'medium' provided that this condition shall not apply if there is an appropriate entry covering operation from contaminated runways contained in the relevant flight manual.
e) The aerodrome is not available for use by single engine aircraft. Available to fixed-wing aircraft only. Recreational flying is not permitted.
f) Single pilot operations are not permitted.
g) It is not permitted to nominate EGLC as a diversion aerodrome.
h) All flights operating at London City Airport require a slot allocated by Airport Coordination Ltd (ACL). Requests for ad-hoc slot allocations should be made to ACL during working hours Mon-Fri 0830-1700 (0730-1600) by SITA: LONACXH; e-mail: lonacxh@acl-uk.org; or Tel: 0208-564 0605, Fax: 0208-564 0691. Outside these times, during published operating hours to Aerodrome Operations Stand Planner 0207-646 0083. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com/default.aspx?AspxAutoDetectCookieSupport=1.
i) All aircraft shall only commence start up and taxi when a marshaller is present and available to provide relevant signals.
j) When operating on the aprons, high visibility tabards must be worn and fastened.
k) Ground service crews are responsible for removal of all chocks.
l) Pilots are reminded not to cross the taxiway double white lines when conducting visual inspections of aircraft.

2 GROUND MOVEMENT

a) Pilots are requested to use minimum power when manoeuvring on and off parking stands and when entering the runway. The use of minimum power is particularly emphasised when holding at the entry points to the runway and when entering the runway.
b) Parking: Pilots should self-manoeuvre their aircraft on to the appropriate stand lead-in line (as directed by ATC) and approach the stand as closely as possible. Direction to the final parking position will be provided by marshallers. Under no circumstances may aircraft enter a stand without guidance from marshallers.
c) Under no circumstances may aircraft self park or taxi without guidance from marshallers.
d) GA Apron: Pilots will be directed by ATC to taxi to the Jet Centre. Pilots must then follow the marshaller’s instructions for parking.
e) To ensure adequate wing tip clearance is maintained from adjacent stands, it is imperative that pilots follow the lead-out markings on all stands.
f) Pre-departure ATC clearance by datalink (DCL) is available at London City Airport for suitably equipped aircraft. If an attempt to obtain DCL is unsuccessful aircraft must instead request via RTF. Pilots are to request departure clearance no later than EOBT - 10.
g) If the aircraft is not adequately positioned on stand the pilot should proceed as directed by ATC. Prior to undertaking the manoeuvre, in order to re-position onto stand, the pilot must request permission from ATC to enter the taxilane and advise ATC if the aircraft is unable to follow the stand lead-off line. Only once permission has been granted by ATC shall the pilot commence the movement into the taxilane.
h) Use of aircraft Auxiliary Power Units (APUs) are subject to strict controls as set out in published airport regulations. Between the hours of Mon-Fri 0630-2200 (0530-2100); Sat 0630-1230 (0530-1130); Sun 1230-2200 (1130-2100), APUs should be shut down as soon as practicable following arrival and not restarted until 10 minutes prior to departure, except when the outside air temperature (as promulgated by ATC) is below +5C or above +20C. Flights with departure times at or just after published airfield opening time are able to start APU from STD -10 mins but not before Mon-Sat 0620 (0520) or Sun 1220 (1120). Operators wishing to use their APU during the above conditions should contact ATC and inform them of APU start-up. This will allow ATC and AO to note APU running times that may be required by the local authority. The use of APUs are not permitted outside of published airfield operating hours unless the airfield operating hours have been extended. Fixed Electrical Ground Power (FEGP) or Mobile Ground Power (MGP) must be used whenever available and serviceable.
i) Pilots should caution other aircraft in the process of parking when taxiing.
j) E295/E290/BCS1 – Stand 10L: When parking on Stand 10L, E295/E290/BCS1 are not to vacate the runway at Alpha. When parking Stand 10L, Stand 9 will be vacant.

3 CAT II/III OPERATIONS

a) London City Airport is not suitable for lower than standard category I operations.

4 WARNINGS

a) Windshear - When landing on either runway in strong wind conditions pilots may experience building induced turbulence and/or windshear. Pilots initiating a missed approach due to windshear should report Windshear Go-Around to alert ATC to possibility of a level bust. The Standard Missed Approach altitude is 2000 FT.
b) Compass Error when using Runway 27 hold. Some aircraft types may experience magnetic disturbances, affecting the Heading Reference System. Pilots should ensure that, when positioned for take-off from Runway 27, the aircraft heading reference is checked against the runway alignment. Flight crew noticing a compass anomaly should notify ATC as soon as possible.
c) Level Bust - All Standard Instrument Departures have stop altitudes of 3000 FT due to presence of London TMA.

5 HELICOPTER OPERATIONS

a) Use of the airport by helicopters is not permitted without prior authorisation from the Airport Authority.
b) See EGLL AD 2.22 and chart AD 2-EGLL-3-2 for details of helicopter procedures within the London CTR and London City CTR.

6 USE OF RUNWAYS

a) Minimum Runway Occupancy Time - Departing Aircraft.

i. The crew of departing aircraft must inform ATC if they are not ready for departure when instructed by ATC to line-up.
ii. Whenever possible, cockpit checks should be completed prior to line-up and any checks requiring completion when lined-up on the runway should be kept to the minimum required.
iii. Pilots not able to comply with these requirements should notify City Tower as soon as possible.

b) Minimum Runway Occupancy Time - Arriving Aircraft.

i. Pilots are reminded that prompt exit from the runway enables ATC to apply minimum spacing on final approach that will achieve maximum runway utilisation and will minimise the occurrence of 'go-arounds'.
ii. No taxiway to be used as a RET. Any aircraft that continues landing roll beyond TWY Kilo may infringe the ILS critical area.
iii. Pilots expecting to use the full runway length to stop (e.g. due aircraft weight/meteorological conditions) are requested to inform Thames Director on first contact.

c) The end of the Runway 09 477 M and Runway 27 475 M TDZ is marked with two pairs of white inset high intensity lights. This visual reference may be lost prior to landing depending on point of touchdown and attitude of the aircraft. If during final approach it is anticipated that the touchdown point will be outside this area, a missed approach procedure should be initiated.

7 TRAINING

a) Only training necessary for the operation of aircraft at the aerodrome will be permitted. All training is subject to the approval of the Airport Director.

EGLC AD 2.21 NOISE ABATEMENT PROCEDURES

a) Noise abatement procedures for aircraft departing London City and joining Controlled Airspace are included in the appropriate Standard Instrument Departure (SID) instructions.
b) Aircraft departing London City CTR/CTA into the FIR or departing on training flights within the London City CTR/CTA are to climb straight ahead to a minimum of 1000 FT AAL before turning on track unless otherwise instructed by ATC.
c) Aircraft making approaches to London City without assistance from the ILS shall follow a descent path which will not result in its being at any time lower than the approach path that would be followed by an aircraft using the ILS glide path.
d) Pilots of aircraft carrying out visual approaches to Runway 09 and Runway 27 shall not fly below altitude 1600 FT and 1500 FT respectively until established on the final approach.
e) To minimise disturbance in areas adjacent to the aerodrome, commanders of aircraft are requested to keep the use of reverse thrust to the utmost minimum, while ensuring the safe operation of the aircraft.
f) To minimise disturbance in areas adjacent to the aerodrome, when landing on Runway 09, commanders of aircraft are requested to avoid extending landing gear before ODLEG, unless required to do so by operating conditions to maintain the safety of the aircraft.

EGLC AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) **Standard Arrival Routes - London City**

The standard routes for inbound aircraft are detailed in the Standard Arrival Routes (STAR) shown at AD 2-EGLC-7-STAR Charts.

b) **RNAV 1 IFR Arrivals from the ATS En-Route Structure via JACKO or GODLU**

Aircraft and crews equipped and approved for RNAV 1 operations can expect to be cleared to fly an RNAV1 Transition as detailed in AD 2-EGLC-7-RNAV 1 Charts.

c) **Inbound** **Speed** **Control**

ATC normally issue speed control instructions of 160 KT until 5 DME on Runway 09 and 160 KT until 6 DME on Runway 27. If necessary pilots may reduce speed 1.0 DME prior to these distances without reference to ATC. Speed reductions prior to this shall be advised to Thames Director on first contact.

2 DEPARTURES

a) All Standard Instrument Departures have stop altitudes of 3000 FT due to presence of London TMA traffic 1000 FT above.
b) Departure Speed Restriction: In order to optimise the departure flow and assist in the separation between successive departing aircraft a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase ‘No ATC Speed Restriction’. Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation.

c) If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation.

Note: *RNAV 1 Departures via SOQQA*

Pilots are to follow the RNAV 1 departure route as indicated in Chart AD 2-EGLC-6-4. However, crews should be aware that early climb instructions will be given by ATC to reach FL 70/80 by SODVU for integration with the RNAV1 Transition Arrival procedure; this will be followed by routine vectoring to join the ATS en-route network.

d) ATC may request a 7 DME NE London City position report from pilots upon departure from London City. When departing Runway 27, 7 DME NE London City is approximately equivalent to LON 25.5D, LCE04 or LCN06. When departing Runway 09, 7 DME NE London City is approximately equivalent to LON 27D, CLN 38D or LCE02.

3 RADIO COMMUNICATION FAILURE PROCEDURES

In the event of complete Radio Communication Failure (RCF) in an aircraft, the pilot is to adopt the appropriate procedure in ENR 1.1 paragraph 3.4 except where described below:

a) **Inbound RNAV 1 Aircraft via JACKO or GODLU**

i. **Via JACKO**

1. **RCF occurring prior to arrival at JACKO**. The pilot is to adopt the RCF procedures detailed in ENR 1.1 paragraph 3.4.2.2.4 squawking Mode A 7600 when the RCF is detected. On leaving the JACKO hold, route BABKU direct RAVSA then continue on the appropriate arrival transition, complying with the vertical profile shown on the chart and complete an instrument approach for the appropriate runway in use.
2. **RCF occurring on the sequencing leg after JACKO**. Squawk Mode A 7600. Fly at the last assigned level to the end of the sequencing leg at LCE23, route to RAVSA, then continue on the appropriate arrival transition complying with the vertical profile shown on the chart and complete an instrument approach for the appropriate runway in use.
3. **RCF occurring having been cleared off the sequencing leg**. Squawk Mode A 7600. Fly direct to RAVSA, then continue on the appropriate arrival transition complying with the vertical profile shown on the chart and complete an instrument approach for the appropriate runway in use.

ii. **Via GODLU**

1. **RCF occurring prior to arrival at GODLU**. The pilot is to adopt the RCF procedures detailed in ENR 1.1 paragraph 3.4.2.2.4, squawking Mode A 7600 when the RCF is detected. On leaving the GODLU hold, route ELMIV direct RAVSA then continue on the appropriate arrival transition, complying with the vertical profile shown on the chart and complete an instrument approach for the appropriate runway in use.
2. **RCF occurring on the sequencing leg after GODLU**. Squawk Mode A 7600. Fly at the last assigned level to the end of the sequencing leg at LCE13, route to RAVSA, then continue on the appropriate arrival transition complying with the vertical profile shown on the chart and complete an instrument approach for the appropriate runway in use.
3. **RCF occurring having been cleared off the sequencing leg**. Squawk Mode A 7600. Fly direct to RAVSA then continue on the appropriate arrival transition complying with the vertical profile shown on the chart and complete an instrument approach for the appropriate runway in use.

b) **Outbound** **Aircraft**

In the event of complete RCF in an aircraft, the pilot shall operate secondary radar transponder on Mode A code 7600 with Mode C and follow the procedure published on the SID and thereafter commencing climb to flight planned level after the last position where an altitude is specified in the communication failure procedure text box, with the exception of those listed below:

i. ODUKU 1A/1H
Pilots should follow the procedures shown at ENR 1.1, paragraph 3.4.

ii. SAXBI 1A/1H
Without descending from last assigned level, if higher, follow lateral track of coded procedure. Maintain 3000 FT ALT to SAXBI then route via N27 to HEN, climb to cross HEN at 5000 FT ALT. After HEN, climb to flight planned level.

iii. SOQQA 1A
Without descending from last assigned level, if higher, follow lateral track of coded procedure. Maintain 3000 FT ALT to LCN06. Climb to 4000 FT ALT to be level 4 NM before SOQQA and maintain. After SOQQA, climb to flight planned level.

iv. SOQQA 1H
Without descending from last assigned level, if higher, follow lateral track of coded procedure. Maintain 3000 FT ALT to LCE03. Climb to 4000 FT ALT to be level 3 NM before SOQQA and maintain. After SOQQA, climb to flight planned level.

4 PROCEDURES FOR TRANSIT AIRCRAFT

a) Aircraft wishing to transit the London City CTR/CTA (or the London CTR) shall contact 'Heathrow Radar' (H24).

5 AERODROME OPERATING MINIMA - NON-PUBLIC TRANSPORT FLIGHTS

a) Refer to AD 1.1 sub-section 4 before application.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

Note: *Refer also to VRPs in use at London Heathrow.*

7 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the London City CTR within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Thames Director frequency, 132.700 MHz, are encouraged to select SSR code 0012.

513630N 0001545E - 514111N 0001345W -
514027N 0003627W - 514015N 0005348W -
513444N 0005508W - 512335N 0005516W -
511422N 0003506W - 511957N 0001917E -
513630N 0001545E.

b) Selection of 0012 does not imply the receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the London City CTR at all times.

c) Whilst squawking 0012, pilots should be aware that Thames Director may make blind transmissions in order to ascertain a particular aircraft's intentions/route.

d) When a pilot ceases to maintain a listening watch, code 0012 shall be deselected.

EGLC AD 2.23 ADDITIONAL INFORMATION

1 MODE S BAROMETRIC PRESSURE SETTING DATA

a) London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

2 REMOTE TOWER OPERATIONS

a) The Aerodrome Air Traffic Service is provided remotely from a Remote Tower Centre;
b) The signalling lamp is positioned at the Remote Tower Mast, on site at the airport (Lat: 513010.44N Long: 0000319.92E).

EGLC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGLC-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGLC-2-2
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGLC-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGLC-5-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09/27 SOQQA 1A 1H - ICAO
AD 2.EGLC-6-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 27 BPK 1A SAXBI 1A - ICAO
AD 2.EGLC-6-2
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09 BPK 1H SAXBI 1H - ICAO
AD 2.EGLC-6-3
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09/27 ODUKU 1A 1H - ICAO
AD 2.EGLC-6-4
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 09 SOQQA 1H RWY 27 SOQQA 1A

AD 2.EGLC-6-5
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 27 BPK 1A SAXBI 1A
AD 2.EGLC-6-6
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 09 BPK 1H SAXBI 1H
AD 2.EGLC-6-7
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 09 ODUKU 1H RWY 27 ODUKU 1A
AD 2.EGLC-6-8
RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 SUMUM 1C XAMAN 1C - ICAO
AD 2.EGLC-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 SILVA 1C - ICAO
AD 2.EGLC-7-2
RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 KONAN 1C SOVAT 1C XAMAN 1X SUMUM 1X - ICAO
AD 2.EGLC-7-3
RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 HON 1C - ICAO
AD 2.EGLC-7-4
RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 LISTO 1C - ICAO
AD 2.EGLC-7-5
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 KATHY 1C SAM 1C - ICAO
AD 2.EGLC-7-6
RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 AVANT 1C NEVIL 1C - ICAO
AD 2.EGLC-7-7
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 09/27 SIRIC 1C - ICAO
AD 2.EGLC-7-8
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 09/27 SUMUM 1C XAMAN 1C SILVA 1C
AD 2.EGLC-7-9
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 09/27 KONAN 1C SOVAT 1C XAMAN 1X SUMUM 1X
AD 2.EGLC-7-10
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 09/27 HON 1C
AD 2.EGLC-7-11
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 09/27 LISTO 1C
AD 2.EGLC-7-12
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 09/27 KATHY 1C SAM 1C
AD 2.EGLC-7-13
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 09/27 AVANT 1C NEVIL 1C SIRIC 1C
AD 2.EGLC-7-14
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 27 LAVNO 1G 1J - ICAO
AD 2.EGLC-7-15
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 09 ODLEG 1G 1J - ICAO
AD 2.EGLC-7-16
APPROACH TRANSITIONS CODING TABLES RWY 27 LAVNO 1G 1J
AD 2.EGLC-7-17
APPROACH TRANSITIONS CODING TABLES RWY 09 ODLEG 1G 1J
AD 2.EGLC-7-18
RNAV HOLD CODING TABLES GODLU JACKO OKVAP ROPMU
AD 2.EGLC-7-19
INSTRUMENT APPROACH CHART ILS (5.5° GP)/DME/NDB(L) RWY 09 (CAT A,B,C) - ICAO
AD 2.EGLC-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 09 (CAT A,B,C) - ICAO
AD 2.EGLC-8-2
VISUAL APPROACH PROFILE RWY 09 (CAT A,B,C) - ICAO
AD 2.EGLC-8-3
INSTRUMENT APPROACH CHART ILS (5.5° GP)/DME/NDB(L) RWY 27 (CAT A,B,C) - ICAO
AD 2.EGLC-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 27 (CAT A,B,C) - ICAO
AD 2.EGLC-8-5
VISUAL APPROACH PROFILE RWY 27 (CAT A,B,C) - ICAO
AD 2.EGLC-8-6

EGLC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 513019N 0000319E | **AD ELEV 20 ft**

LONDON CITY
EGLC

AERO INFO DATE 20 AUG 25

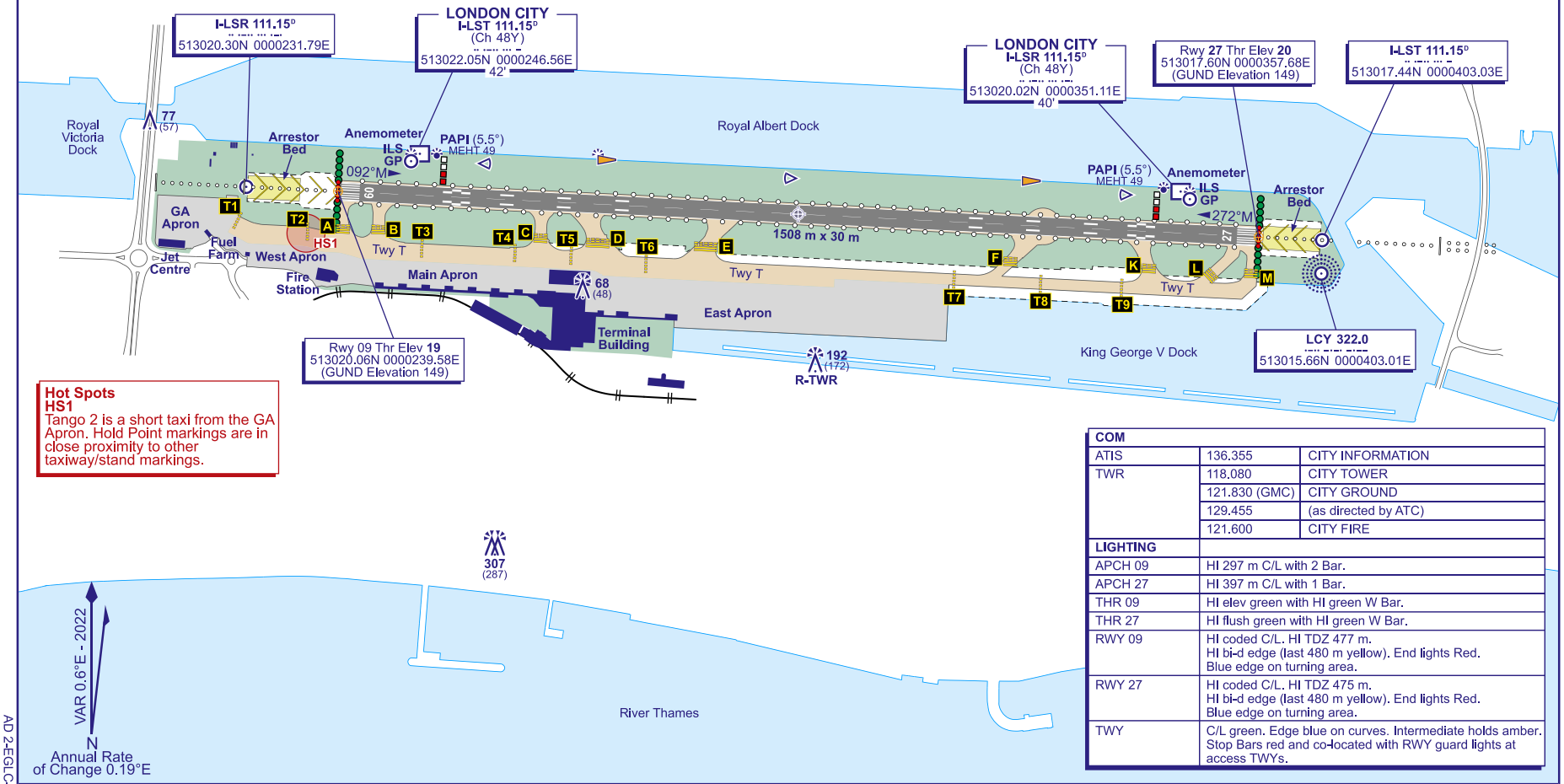
GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**307** (287)

SCALE 1 : 10000 @ A4

100 0 100 200 300 m

500 0 500 1000 ft

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS				
RWY / TWY / APRON	**SURFACE**	**PCN**	**PCR**	**ELEVATION**
RWY 09/27	Grooved Asphalt	-	318/F/C/W/U	-
TWY T (Between T1-A)	Concrete	-	285/R/C/Y/U	-
TWY T (Between A-D)	Concrete	-	440/R/B/W/T	-
TWY T (Between Twy D-M)	Concrete	-	-	-
Main Apron	*See AD 2-EGLC-2-2*			
East Apron				



Hot Spots
HS1
Tango 2 is a short taxi from the GA Apron. Hold Point markings are in close proximity to other taxiway/stand markings.

COM		
ATIS	136.355	CITY INFORMATION
TWR	118.080	CITY TOWER
	121.830 (GMC)	CITY GROUND
	129.455	(as directed by ATC)
	121.600	CITY FIRE
LIGHTING		
APCH 09	HI 297 m C/L with 2 Bar.	
APCH 27	HI 397 m C/L with 1 Bar.	
THR 09	HI elev green with HI green W Bar.	
THR 27	HI flush green with HI green W Bar.	
RWY 09	HI coded C/L. HI TDZ 477 m. HI bi-d edge (last 480 m yellow). End lights Red. Blue edge on turning area.	
RWY 27	HI coded C/L. HI TDZ 475 m. HI bi-d edge (last 480 m yellow). End lights Red. Blue edge on turning area.	
TWY	C/L green. Edge blue on curves. Intermediate holds amber. Stop Bars red and co-located with RWY guard lights at access TWYs.	

CHANGE (11/25): HOT SPOT 1. ANEMOMETERS.

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 513019N 0000319E

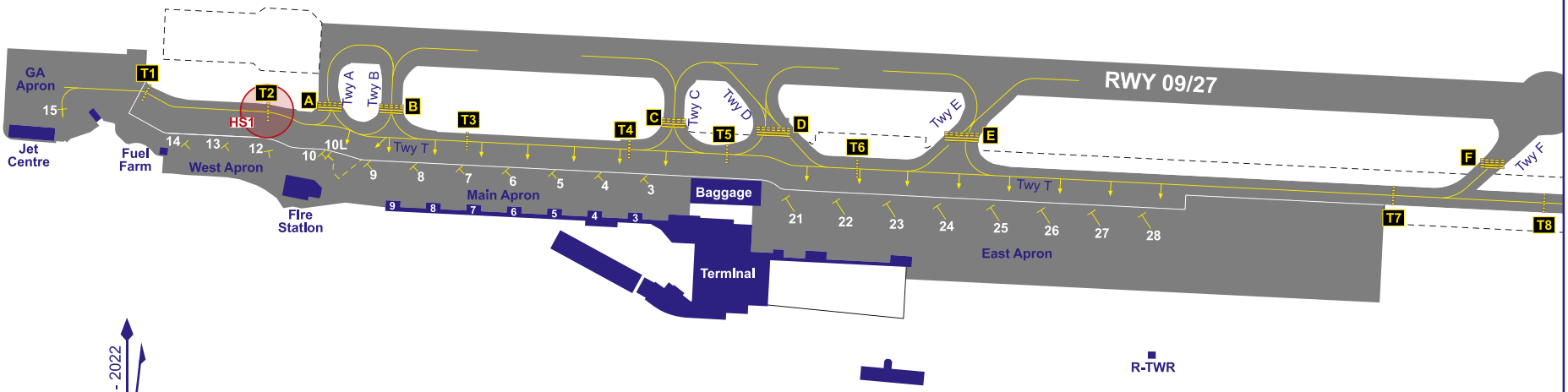
AD ELEV 20 ft

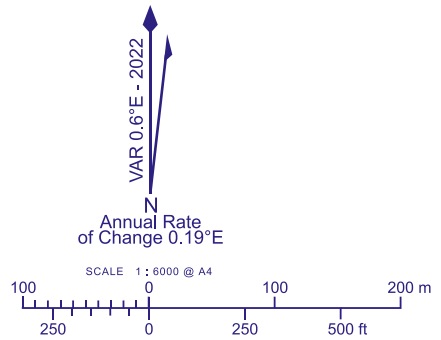
LONDON CITY
EGLC

STAND	COORDINATES	STAND	COORDINATES
3	513015.89N 0000255.30E	21	513015.29N 0000302.23E
4	513015.99N 0000253.08E	22	513015.20N 0000304.68E
5	513016.06N 0000250.83E	23	513015.13N 0000307.14E
6	513016.13N 0000248.58E	24	513015.05N 0000309.60E
7	513016.20N 0000246.32E	25	513015.01N 0000312.21E
8	513016.27N 0000244.07E	26	513014.93N 0000314.68E
9	513016.34N 0000241.82E	27	513014.85N 0000317.13E
10	513016.66N 0000239.60E	28	513014.78N 0000319.59E
10L	To be surveyed		
12	513016.74N 0000237.02E		
13	513016.91N 0000234.88E		
14	513016.97N 0000232.94E		
15	513018.02N 0000226.95E		

COM		
ATIS	136.355	CITY INFORMATION
TWR	118.080	CITY TOWER
	121.830 (GMC)	CITY GROUND
	129.455	(as directed by ATC)
	121.600	CITY FIRE

Hot Spots
HS1
Tango 2 is a short taxi from the GA Apron. Hold Point markings are in close proximity to other taxiway/stand markings.

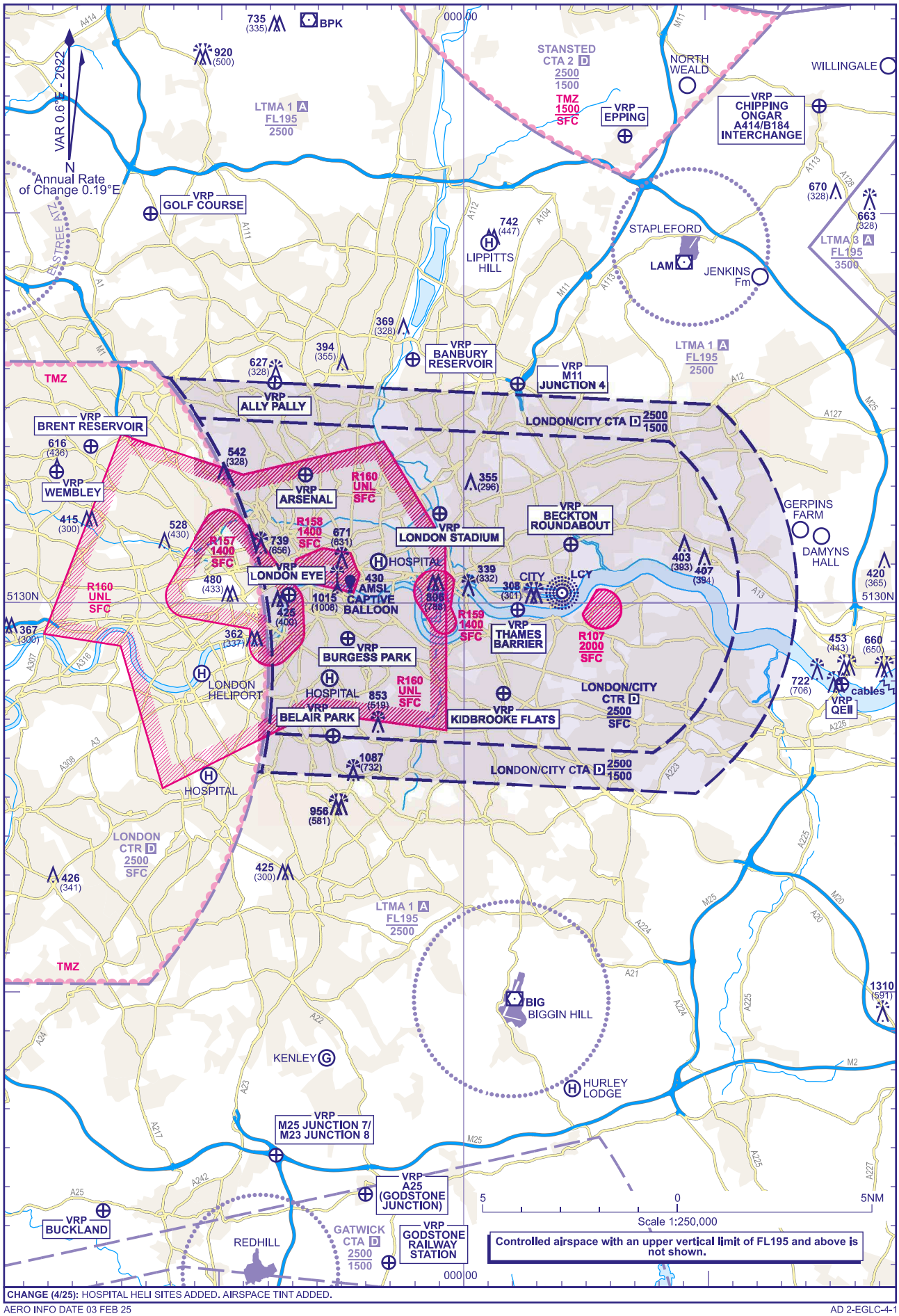




RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS				
RWY / TWY / APRON	SURFACE	PCN	PCR	ELEVATION
Main Apron (3-9)	Concrete	-	285/R/C/Y/U	17 ft amsl
Main Apron (10)	Concrete	-	387/R/C/Y/U	-
East Apron	Concrete	-	-	-
RWY	*See AD 2-EGLC-2-1*			
TWY (All)				

CHANGE (11/25): HOT SPOT 1.

CONTROL ZONE AND CONTROL AREA CHART — LONDON CITY



CHANGE (4/25): HOSPITAL HELI SITES ADDED. AIRSPACE TINT ADDED.

AERO INFO DATE 03 FEB 25

AD 2-EGLC-4-1

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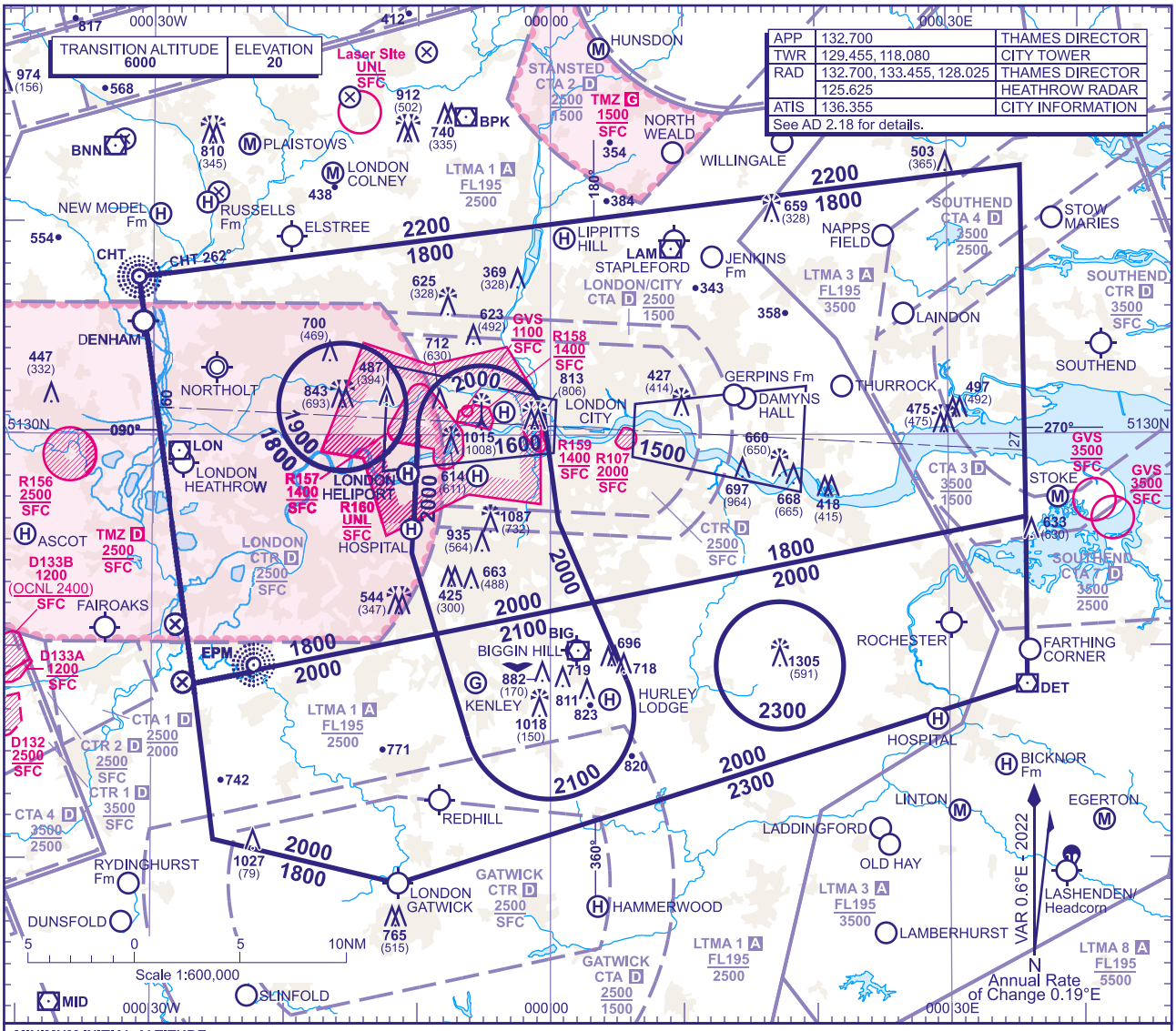
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1305
ELEVATIONS IN FEET AGL (591)

LONDON CITY



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2100** in the sector defined by the lateral limits; 512038N 0000835W - 512207N 0000314E - 511829N 0000545E thence clockwise by an arc of a circle radius 4NM centred on 511651N 0000005W to 511548N 0000613W - 512038N 0000835W.

b) **2000** in the sector defined by the lateral limits; 513022N 0001000W thence clockwise by an arc of a circle radius 3NM centred on 513016N 0000512W to 513040N 0000026W - 512556N 0000036E - 512207N 0000314E - 512038N 0000835W - 512426N 0001026W - 513022N 0001000W.

c) **2000** in the sector defined by the lateral limits; 511818N 0002650W - 512038N 0000835W - 511548N 0000613W thence anticlockwise by an arc of a circle radius 4NM centred on 511651N 0000005W to 511829N 0000545E - 512207N 0000314E - 512606N 0003549E - 511814N 0003550E - 510853N 0001125W - 511056N 0002519W - 511818N 0002650W, except within 3NM radius circle enclosing the Wrotham Mast (511914N 0001714E) where the minimum altitude is **2300**.

d) **1900** in the sector defined by the lateral limits; a circle radius 3NM centred on 513119N 0001542W.

e) **1800** in the sector defined by the lateral limits; 513723N 0003108W - 514239N 0003533E - 512606N 0003549E - 512207N 0000314E - 512556N 0000036E - 513040N 0000026W thence anticlockwise by an arc of a circle radius 3NM centred on 513016N 0000512W to 513022N 0001000W - 512426N 0001026W - 512038N 0000835W - 511818N 0002650W - 513723N 0003108W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually (remaining outside the London CTR) or by means of an appropriate final approach aid. If not possible proceed at 2000FT, to **LCY NDB(L)**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **LCY NDB(L)**†.

†In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. 913FT vertical separation approved against the Crystal Palace mast to meet ATS operational requirements.
7. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of Instrument approaches other than SRA is cleared to intercept the final approach track.**
9. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
10. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 05 FEB 24

AD 2-EGLC-5-1

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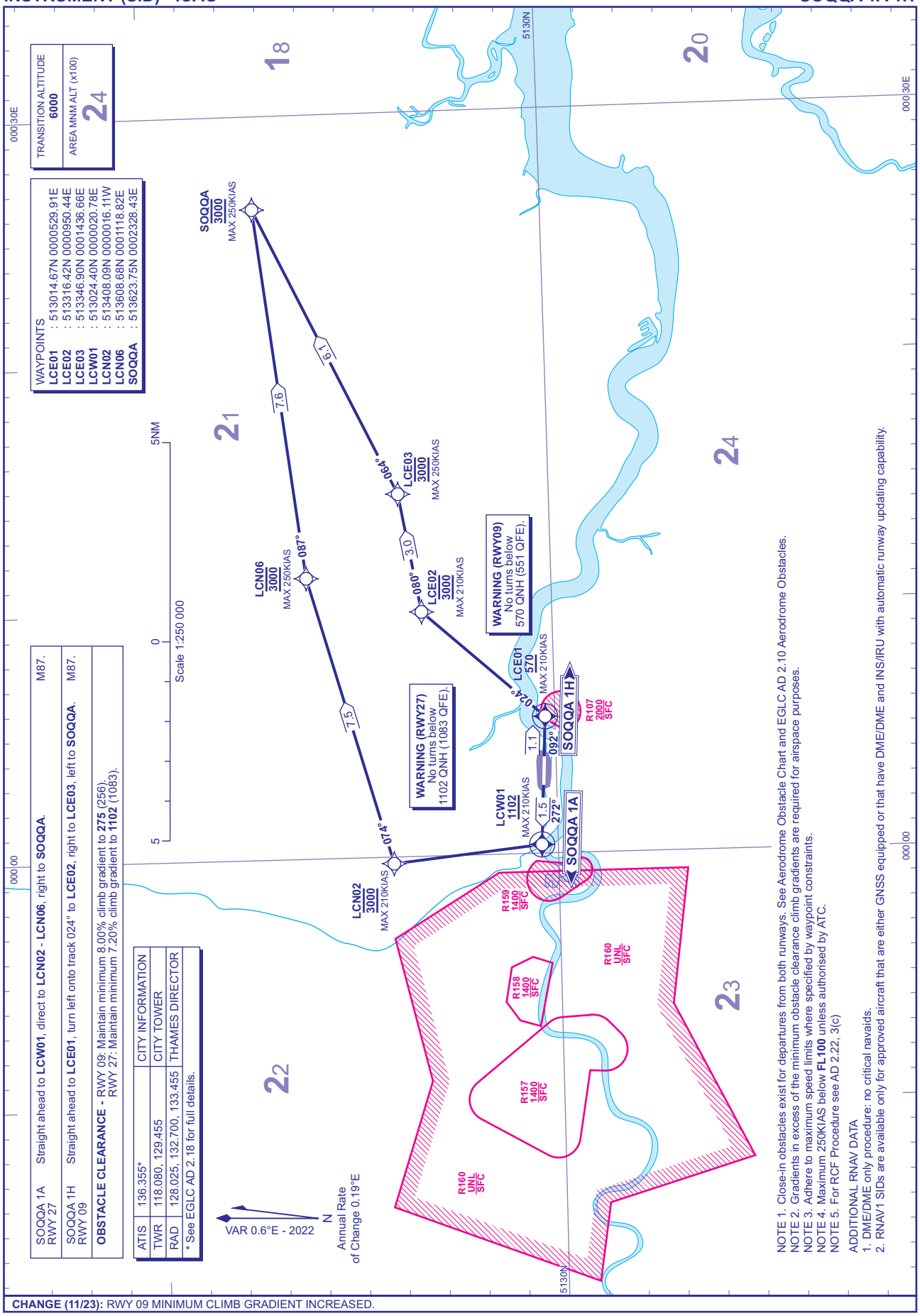
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
SOQQA 1A 1H



CHANGE (11/23): RWY 09 MINIMUM CLIMB GRADIENT INCREASED.

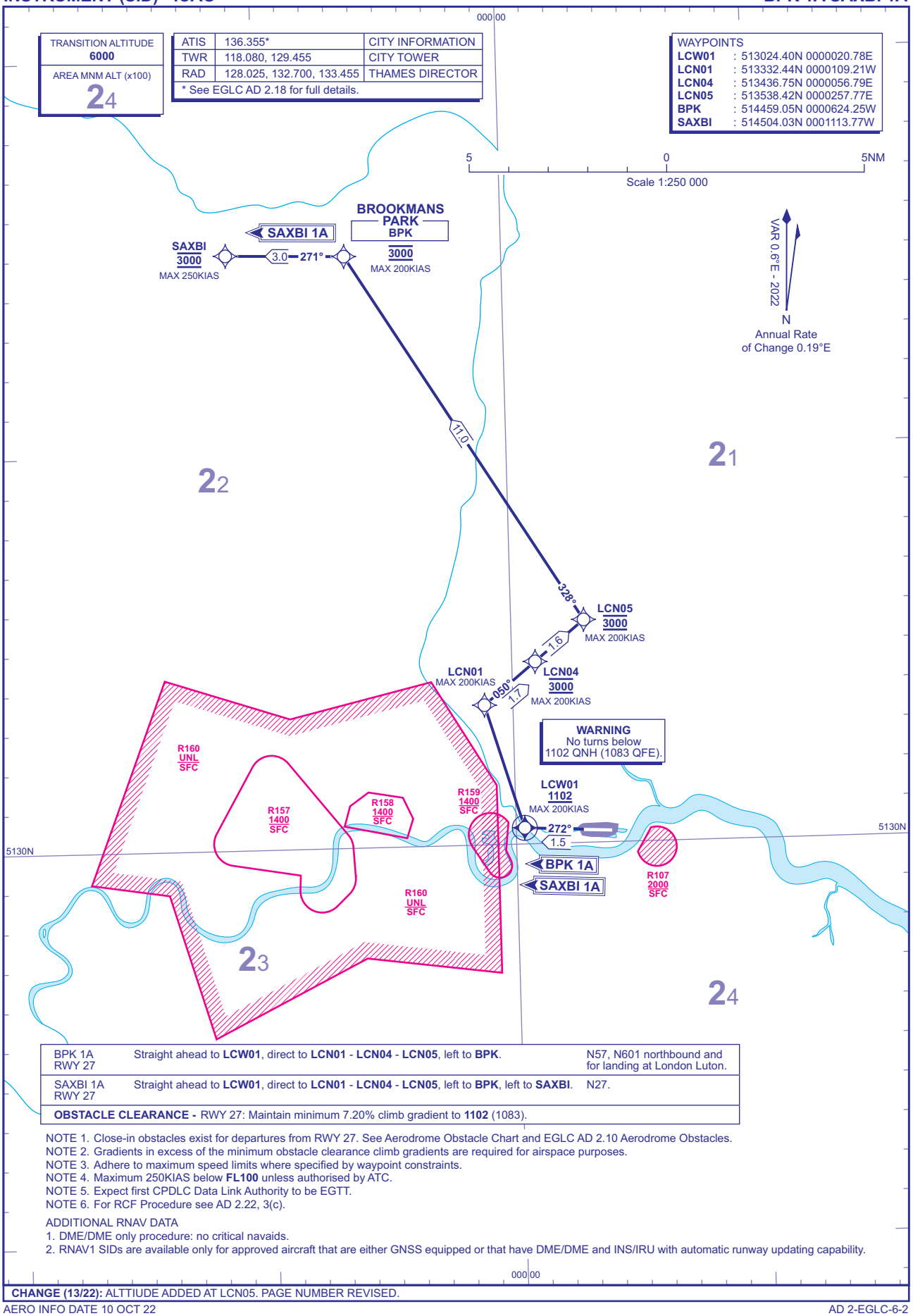
AERO INFO DATE 11 AUG 23

AD 2-EGLC-6-1

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 27
BPK 1A SAXBI 1A



BPK 1A RWY 27	Straight ahead to **LCW01**, direct to **LCN01** - **LCN04** - **LCN05**, left to **BPK**.	N57, N601 northbound and for landing at London Luton.
SAXBI 1A RWY 27	Straight ahead to **LCW01**, direct to **LCN01** - **LCN04** - **LCN05**, left to **BPK**, left to **SAXBI**.	N27.
OBSTACLE CLEARANCE - RWY 27: Maintain minimum 7.20% climb gradient to **1102** (1083).		

NOTE 1. Close-in obstacles exist for departures from RWY 27. See Aerodrome Obstacle Chart and EGLC AD 2.10 Aerodrome Obstacles.
NOTE 2. Gradients in excess of the minimum obstacle clearance climb gradients are required for airspace purposes.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.
NOTE 5. Expect first CPDLC Data Link Authority to be EGTT.
NOTE 6. For RCF Procedure see AD 2.22, 3(c).

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

000 00

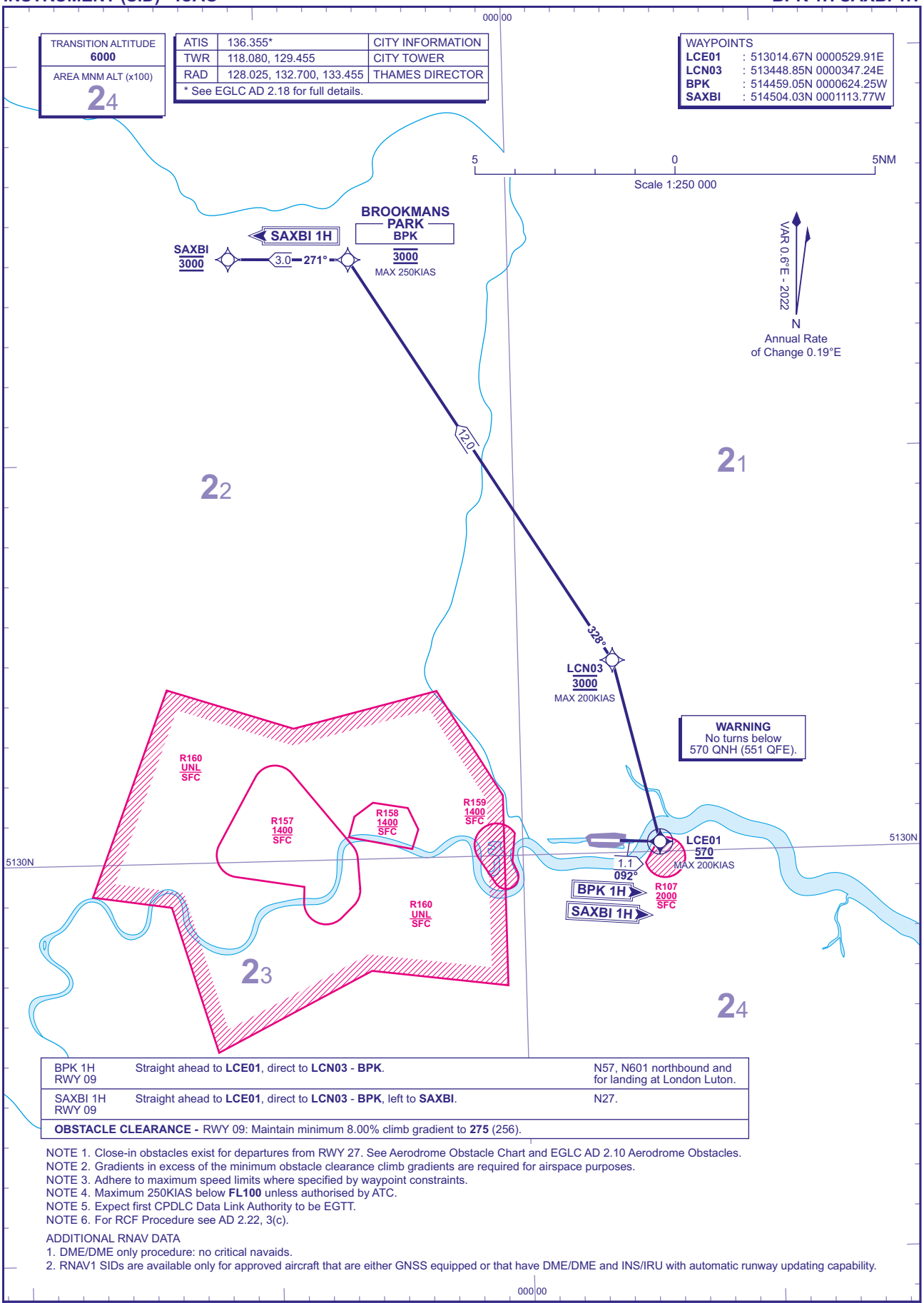
CHANGE (13/22): ALTTIUDE ADDED AT LCN05. PAGE NUMBER REVISED.

AERO INFO DATE 10 OCT 22

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09
BPK 1H SAXBI 1H



BPK 1H RWY 09	Straight ahead to **LCE01**, direct to **LCN03** - **BPK**.	N57, N601 northbound and for landing at London Luton.
SAXBI 1H RWY 09	Straight ahead to **LCE01**, direct to **LCN03** - **BPK**, left to **SAXBI**.	N27.
OBSTACLE CLEARANCE - RWY 09: Maintain minimum 8.00% climb gradient to **275** (256).		

NOTE 1. Close-in obstacles exist for departures from RWY 27. See Aerodrome Obstacle Chart and EGLC AD 2.10 Aerodrome Obstacles.
NOTE 2. Gradients in excess of the minimum obstacle clearance climb gradients are required for airspace purposes.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.
NOTE 5. Expect first CPDLC Data Link Authority to be EGTT.
NOTE 6. For RCF Procedure see AD 2.22, 3(c).

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

000 00

CHANGE (11/23): MINIMUM CLIMB GRADIENT INCREASED.

AERO INFO DATE 11 AUG 23

AD 2-EGLC-6-3

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
ODUKU 1A 1H

TRANSITION ALTITUDE	**6000**
AREA MNM ALT (x100)	**24**

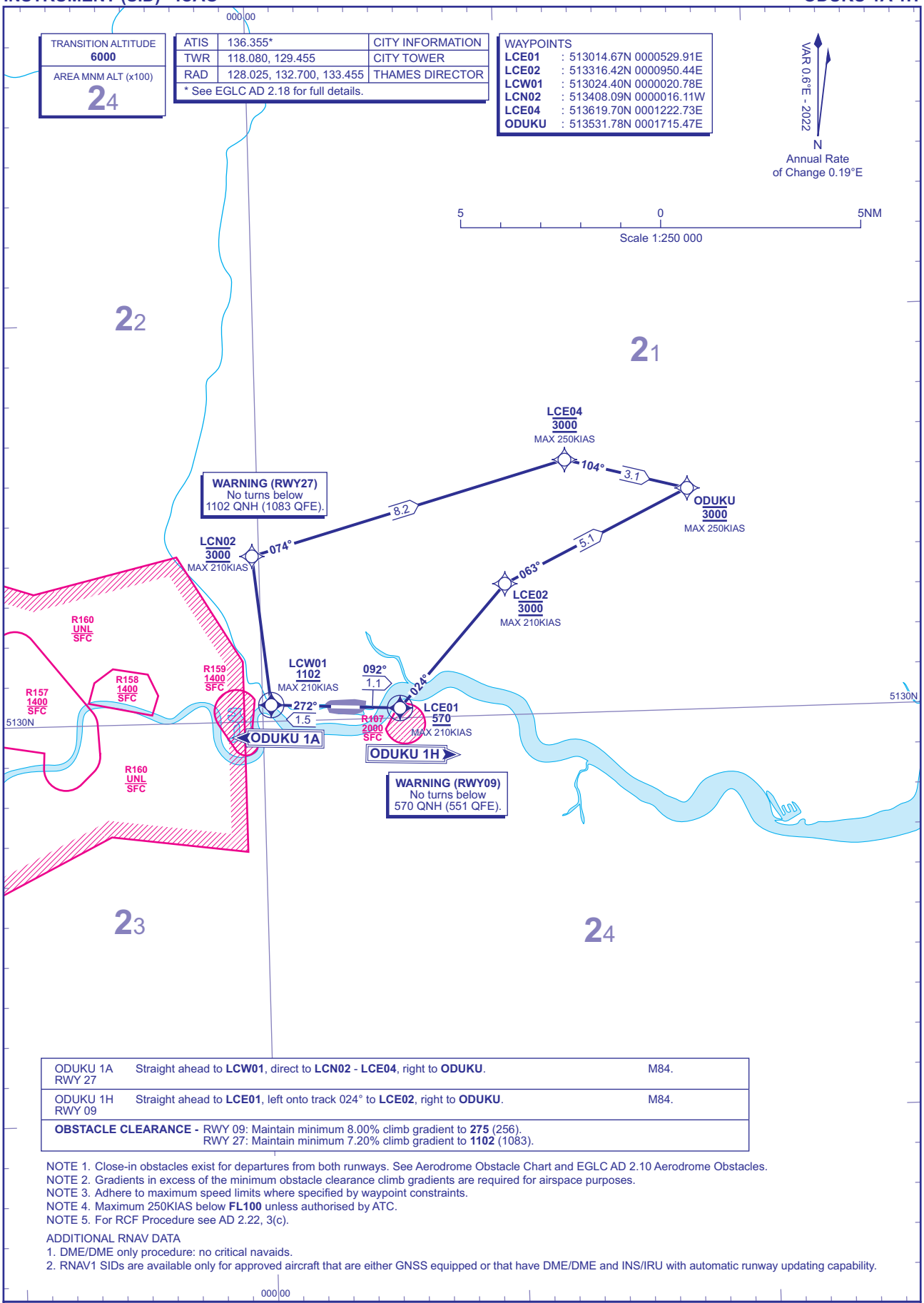
ATIS	136.355*	CITY INFORMATION
TWR	118.080, 129.455	CITY TOWER
RAD	128.025, 132.700, 133.455	THAMES DIRECTOR

* See EGLC AD 2.18 for full details.

WAYPOINTS
LCE01 : 513014.67N 0000529.91E
LCE02 : 513316.42N 0000950.44E
LCW01 : 513024.40N 0000020.78E
LCN02 : 513408.09N 0000016.11W
LCE04 : 513619.70N 0001222.73E
ODUKU : 513531.78N 0001715.47E

VAR 0.6°E - 2022
N
Annual Rate of Change 0.19°E

5 0 5NM
Scale 1:250 000



ODUKU 1A RWY 27	Straight ahead to **LCW01**, direct to **LCN02** - **LCE04**, right to **ODUKU**.	M84.
ODUKU 1H RWY 09	Straight ahead to **LCE01**, left onto track 024° to **LCE02**, right to **ODUKU**.	M84.
OBSTACLE CLEARANCE -	RWY 09: Maintain minimum 8.00% climb gradient to **275** (256). RWY 27: Maintain minimum 7.20% climb gradient to **1102** (1083).	

NOTE 1. Close-in obstacles exist for departures from both runways. See Aerodrome Obstacle Chart and EGLC AD 2.10 Aerodrome Obstacles.
NOTE 2. Gradients in excess of the minimum obstacle clearance climb gradients are required for airspace purposes.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.
NOTE 5. For RCF Procedure see AD 2.22, 3(c).

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

CHANGE (11/23): RWY 09 MINIMUM CLIMB GRADIENT INCREASED.

AERO INFO DATE 11 AUG 23
AD 2-EGLC-6-4

Standard Instrument Departure Coding Tables

London City Runway 09 SOQQA 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SOQQA 1H	001	CF	LCE01	513014.67N 0000529.91E	Y	092° (092.9°)	0.6	1.1	LEFT	+570	-210	RNAV1
SOQQA 1H	002	CF	LCE02	513316.42N 0000950.44E	N	024° (024.8°)	0.6	-	RIGHT	3000	-210	RNAV1
SOQQA 1H	003	TF	LCE03	513346.90N 0001436.66E	N	080° (080.3°)	0.6	3.0	LEFT	3000	-250	RNAV1
SOQQA 1H	004	TF	SOQQA	513623.75N 0002328.43E	N	064° (064.6°)	0.6	6.1	-	3000	-250	RNAV1

London City Runway 27 SOQQA 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SOQQA 1A	001	CF	LCW01	513024.40N 0000020.78E	Y	272° (272.9°)	0.6	1.5	RIGHT	+1102	-210	RNAV1
SOQQA1A	002	DF	LCN02	513408.09N 0000016.11W	N	-	0.6	-	-	3000	-210	RNAV1
SOQQA 1A	003	TF	LCN06	513608.68N 0001118.82E	N	074° (074.4°)	0.6	7.5	RIGHT	3000	-250	RNAV1
SOQQA 1A	004	TF	SOQQA	513623.75N 0002328.43E	N	087° (088.0°)	0.6	7.6	-	3000	-250	RNAV1

CHANGE (13/22): PAGE NUMBER REVISED.
AERO INFO DATE 10 OCT 22

Standard Instrument Departure Coding Tables

London City Runway 27 BPK 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BPK 1A	001	CF	LCW01	513024.40N 0000020.78E	Y	272° (272.9°)	0.6	1.5	RIGHT	+1102	-200	RNAV1
BPK 1A	002	DF	LCN01	513332.44N 0000109.21W	N	-	0.6	-	-	-	-200	RNAV1
BPK 1A	003	TF	LCN04	513436.75N 0000056.79E	N	050° (050.7°)	0.6	1.7	-	3000	-200	RNAV1
BPK 1A	004	TF	LCN05	513538.42N 0000257.77E	N	050° (050.7°)	0.6	1.6	LEFT	3000	-200	RNAV1
BPK 1A	005	TF	BPK	514459.05N 0000624.25W	N	328° (328.1°)	0.6	11.0	-	3000	-200	RNAV1

London City Runway 27 SAXBI 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SAXBI 1A	001	CF	LCW01	513024.40N 0000020.78E	Y	272° (272.9°)	0.6	1.5	RIGHT	+1102	-200	RNAV1
SAXBI 1A	002	DF	LCN01	513332.44N 0000109.21W	N	-	0.6	-	-	-	-200	RNAV1
SAXBI 1A	003	TF	LCN04	513436.75N 0000056.79E	N	050° (050.7°)	0.6	1.7	-	3000	-200	RNAV1
SAXBI 1A	004	TF	LCN05	513538.42N 0000257.77E	N	050° (050.7°)	0.6	1.6	LEFT	3000	-200	RNAV1
SAXBI 1A	005	TF	BPK	514459.05N 0000624.25W	N	328° (328.1°)	0.6	11.0	LEFT	3000	-200	RNAV1
SAXBI 1A	006	TF	SAXBI	514504.03N 0001113.77W	N	271° (271.6°)	0.6	3.0	-	3000	-250	RNAV1

CHANGE (13/22): PAGE NUMBER REVISED.
AERO INFO DATE 10 OCT 22

Standard Instrument Departure Coding Tables

London City Runway 09 BPK 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BPK 1H	001	CF	LCE01	513014.67N 0000529.91E	Y	092° (092.9°)	0.6	1.1	LEFT	+570	-200	RNAV1
BPK 1H	002	DF	LCN03	513448.85N 0000347.24E	N	-	0.6	-	-	3000	-200	RNAV1
BPK 1H	003	TF	BPK	514459.05N 0000624.25W	N	328° (328.1°)	0.6	12.0	-	3000	-250	RNAV1

London City Runway 09 SAXBI 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SAXBI 1H	001	CF	LCE01	513014.67N 0000529.91E	Y	092° (092.9°)	0.6	1.1	LEFT	+570	-200	RNAV1
SAXBI 1H	002	DF	LCN03	513448.85N 0000347.24E	N	-	0.6	-	-	3000	-200	RNAV1
SAXBI 1H	003	TF	BPK	514459.05N 0000624.25W	N	328° (328.1°)	0.6	12.0	LEFT	3000	-250	RNAV1
SAXBI 1H	004	TF	SAXBI	514504.03N 0001113.77W	N	271° (271.6°)	0.6	3.0	-	3000	-	RNAV1

CHANGE (13/22): PAGE NUMBER REVISED.
AERO INFO DATE 10 OCT 22

Standard Instrument Departure Coding Tables

London City Runway 09 ODUKU 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ODUKU 1H	001	CF	LCE01	513014.67N 00000529.91E	Y	092° (092.9°)	0.6	1.1	LEFT	+570	-210	RNAV1
ODUKU 1H	002	CF	LCE02	513316.42N 0000950.44E	N	024° (024.8°)	0.6	-	RIGHT	3000	-210	RNAV1
ODUKU 1H	003	TF	ODUKU	513531.78N 0001715.47E	N	063° (063.9°)	0.6	5.1	-	3000	-250	RNAV1

London City Runway 27 ODUKU 1A

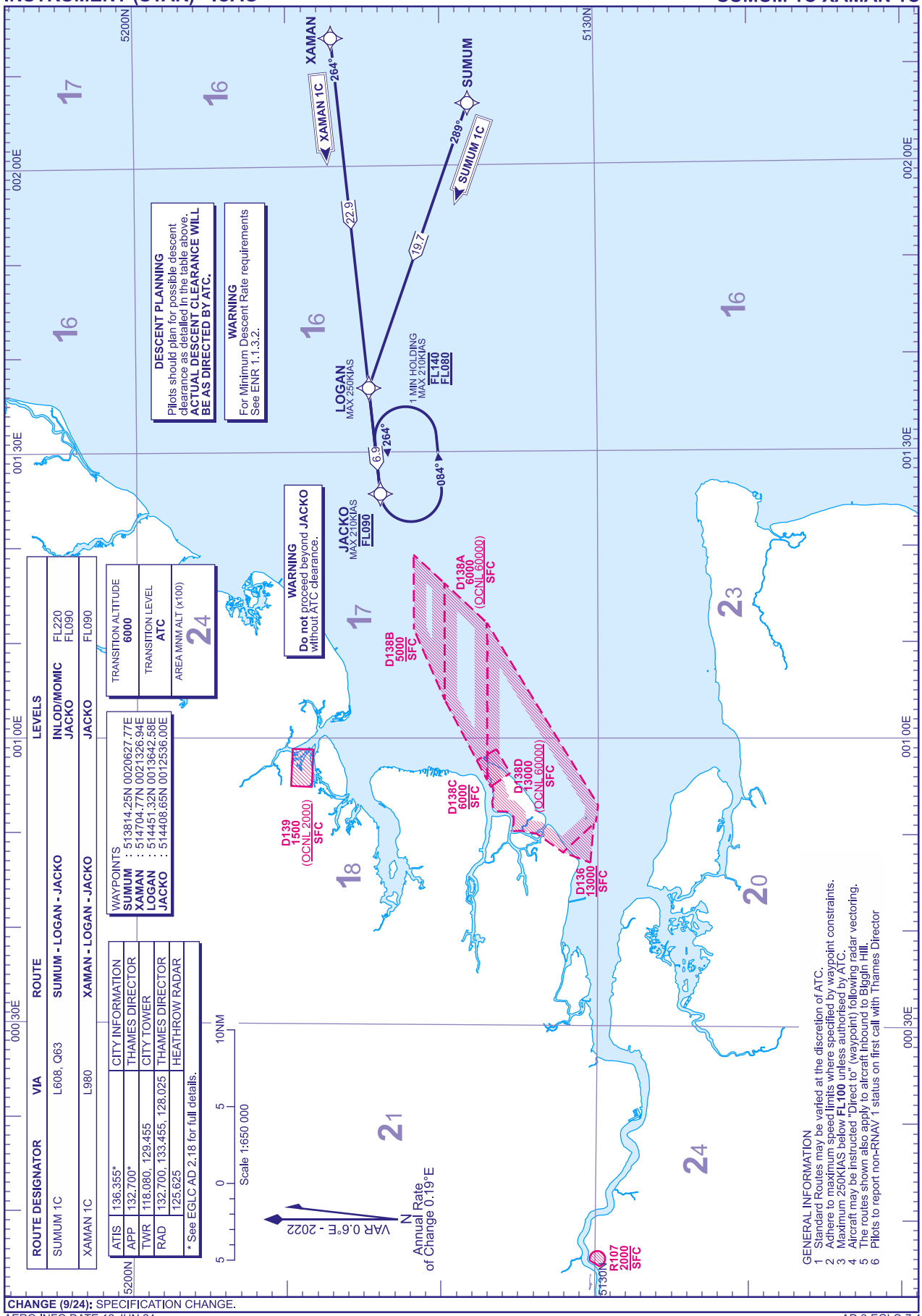
Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ODUKU 1A	001	CF	LCW01	513024.40N 0000020.78E	Y	272° (272.9°)	0.6	1.5	RIGHT	+1102	-210	RNAV1
ODUKU 1A	002	DF	LCN02	513408.09N 0000016.11W	N	-	0.6	-	-	3000	-210	RNAV1
ODUKU 1A	003	TF	LCE04	513619.70N 0001222.73E	N	074° (074.4°)	0.6	8.2	RIGHT	3000	-250	RNAV1
ODUKU 1A	004	TF	ODUKU	513531.78N 0001715.47E	N	104° (104.7°)	0.6	3.1	LEFT	3000	-250	RNAV1

CHANGE (13/22): PAGE NUMBER REVISED.
AERO INFO DATE 10 OCT 22

RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
SUMUM 1C XAMAN 1C



CHANGE (9/24): SPECIFICATION CHANGE.

AERO INFO DATE 12 JUN 24

AD 2-EGLC-7-1

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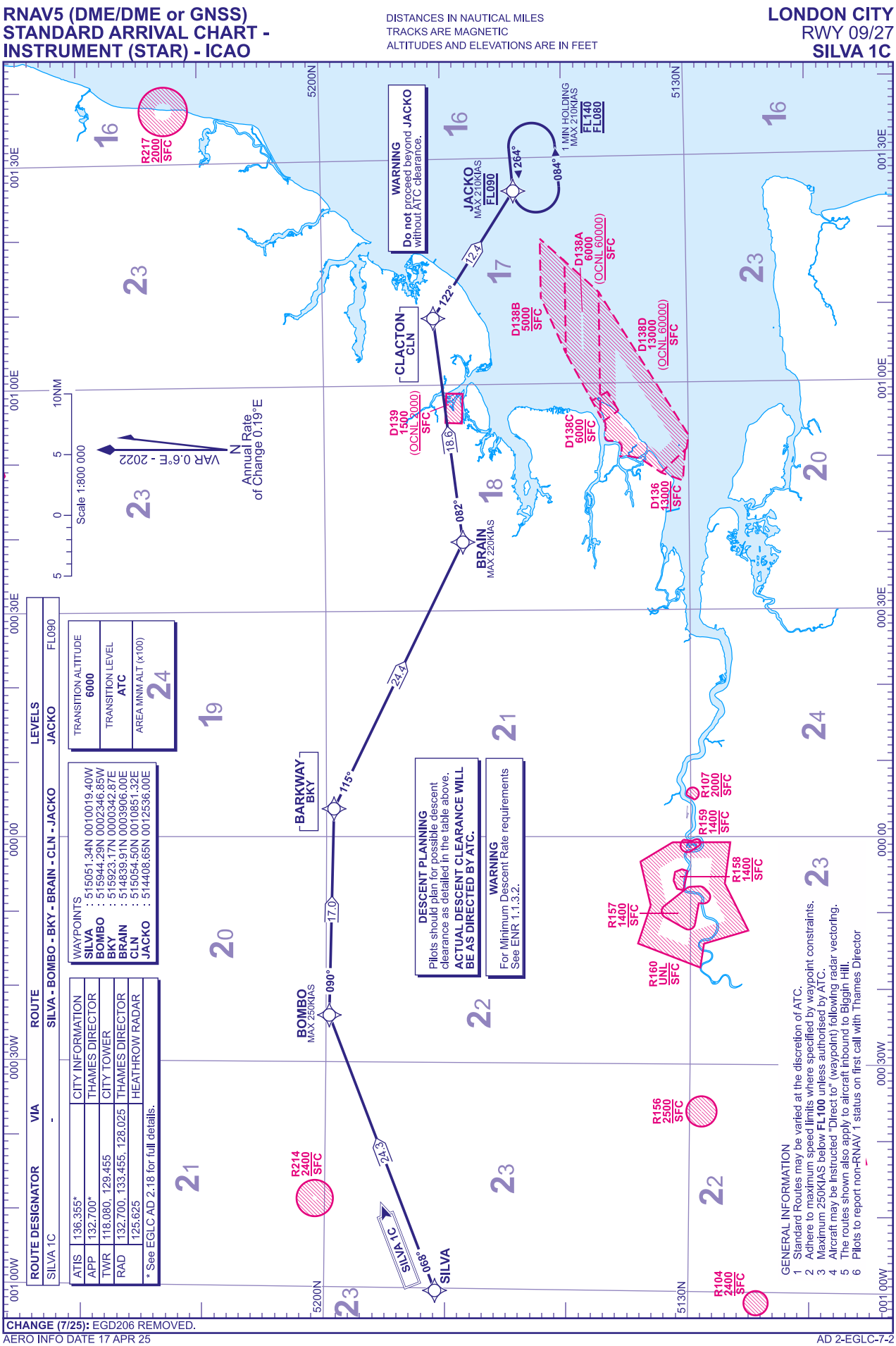
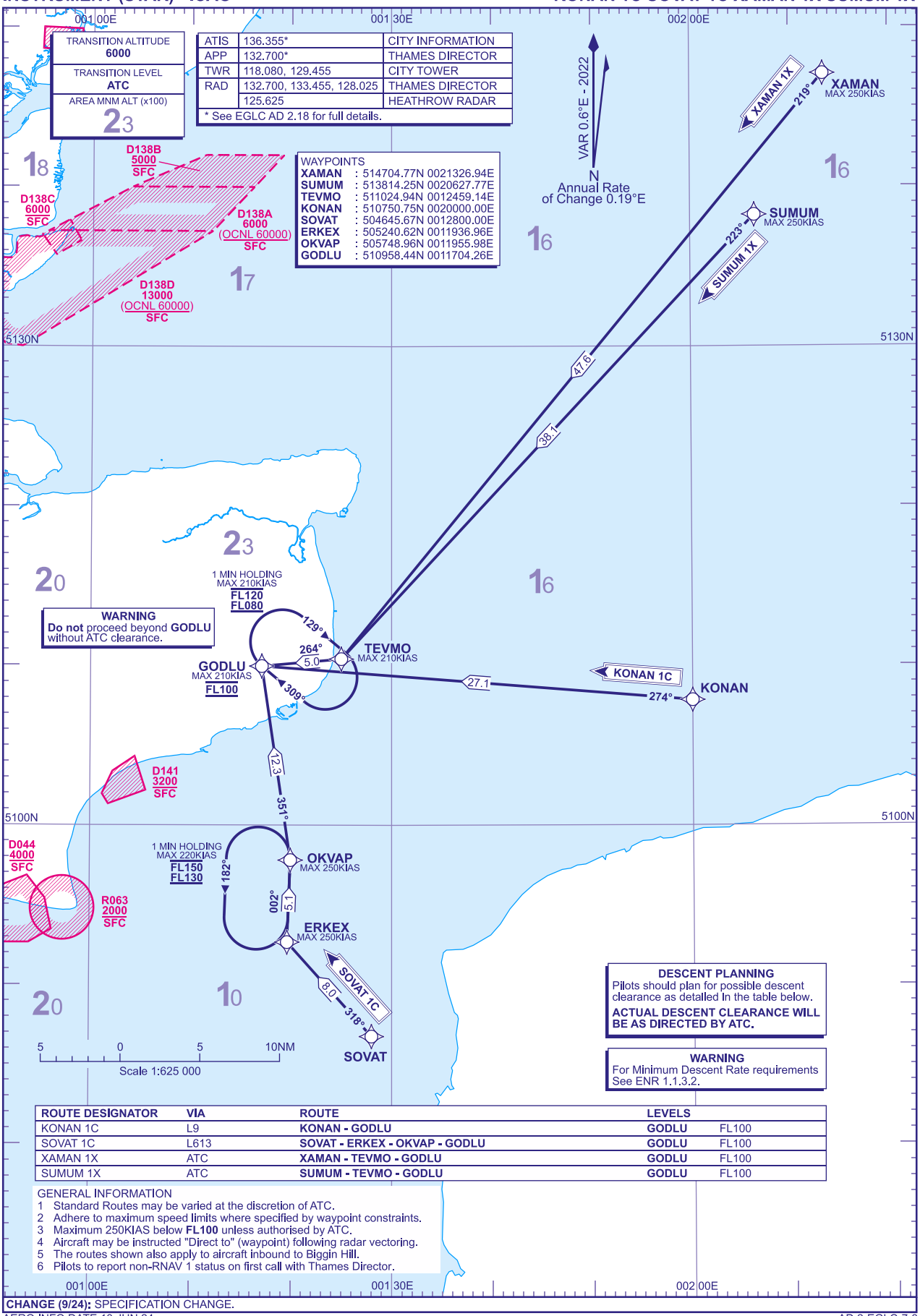

RNAV5 (DME/DME or GNSS)
STANDARD ARRIVAL CHART -
INSTRUMENT (STAR) - ICAO
DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET
LONDON CITY
RWY 09/27
SILVA 1C
ROUTE DESIGNATOR | VIA | ROUTE | LEVELS
SILVA 1C | - | SILVA - BOMBO - BKY - BRAIN - CLN - JACKO | JACKO | FL090
ATIS 136.355*
APP 132.700*
TWR 118.080, 129.455
RAD 132.700, 133.455, 128.025
125.625
CITY INFORMATION
THAMES DIRECTOR
CITY TOWER
THAMES DIRECTOR
HEATHROW RADAR
* See EGLC AD 2.18 for full details.
WAYPOINTS
SILVA : 515051.34N 0010019.40W
BOMBO : 515944.29N 0002346.85W
BKY : 515923.17N 0000342.87E
BRAIN : 514839.91N 0003906.00E
CLN : 515054.50N 0010851.32E
JACKO : 514408.65N 0012536.00E
TRANSITION ALTITUDE 6000
TRANSITION LEVEL ATC
AREA MNM ALT (x100) 24
DESCENT PLANNING
Pilots should plan for possible descent clearance as detailed in the table above.
ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.
WARNING
For Minimum Descent Rate requirements See ENR 1.1.3.2.
WARNING
Do not proceed beyond JACKO without ATC clearance.
JACKO
MAX 210KIAS
FL090
1 MIN HOLDING
1 MIN 210KIAS
FL140
FL080
CLACTON
CLN
BRAIN
MAX 220KIAS
BARKWAY
BKY
BOMBO
MAX 250KIAS
SILVA
SILVA 1C
D138A 6000 (OCNL 60000) SFC
D138B 5000 SFC
D138C 6000 SFC
D138D 13000 (OCNL 60000) SFC
D139 1500 (OCNL 2000) SFC
D136 13000 SFC
R217 2000 SFC
R214 2400 SFC
R104 2400 SFC
R156 2500 SFC
R157 1400 SFC
R158 1400 SFC
R159 1400 SFC
R160 UNL SFC
R107 2000 SFC
Scale 1:800 000
VAR 0.6°E - 2022
Annual Rate of Change 0.19°E
GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 The routes shown also apply to aircraft inbound to Biggin Hill.
6 Pilots to report non-RNAV 1 status on first call with Thames Director
CHANGE (7/25): EGD206 REMOVED.
AERO INFO DATE 17 APR 25
AD 2-EGLC-7-2

RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
KONAN 1C SOVAT 1C XAMAN 1X SUMUM 1X



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
KONAN 1C	L9	KONAN - GODLU	GODLU	FL100
SOVAT 1C	L613	SOVAT - ERKEX - OKVAP - GODLU	GODLU	FL100
XAMAN 1X	ATC	XAMAN - TEVMO - GODLU	GODLU	FL100
SUMUM 1X	ATC	SUMUM - TEVMO - GODLU	GODLU	FL100

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below **FL100** unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 The routes shown also apply to aircraft inbound to Biggin Hill.
6 Pilots to report non-RNAV 1 status on first call with Thames Director.

CHANGE (9/24): SPECIFICATION CHANGE.

AERO INFO DATE 13 JUN 24

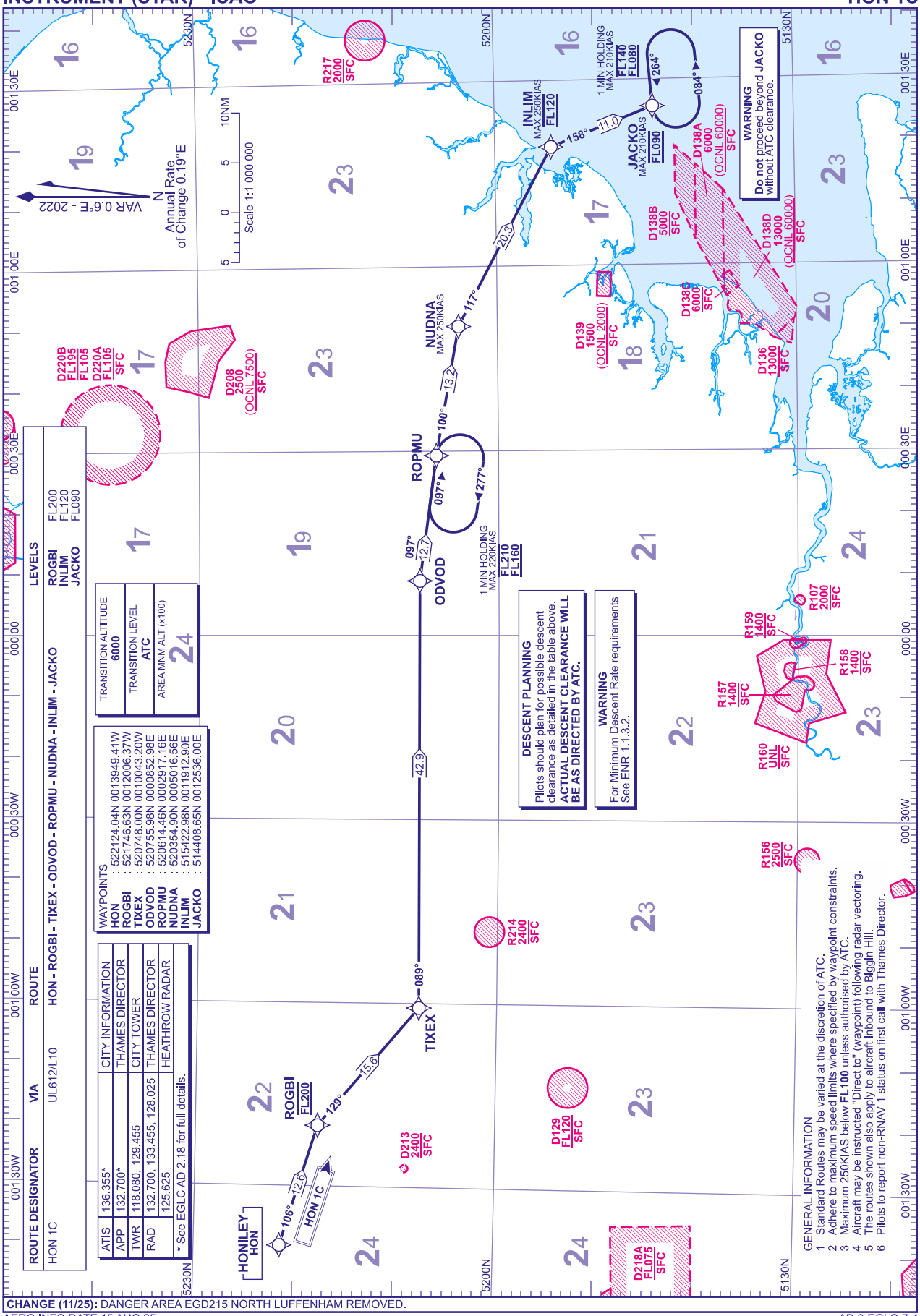
AD 2-EGLC-7-3

I

RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
HON 1C



CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED.

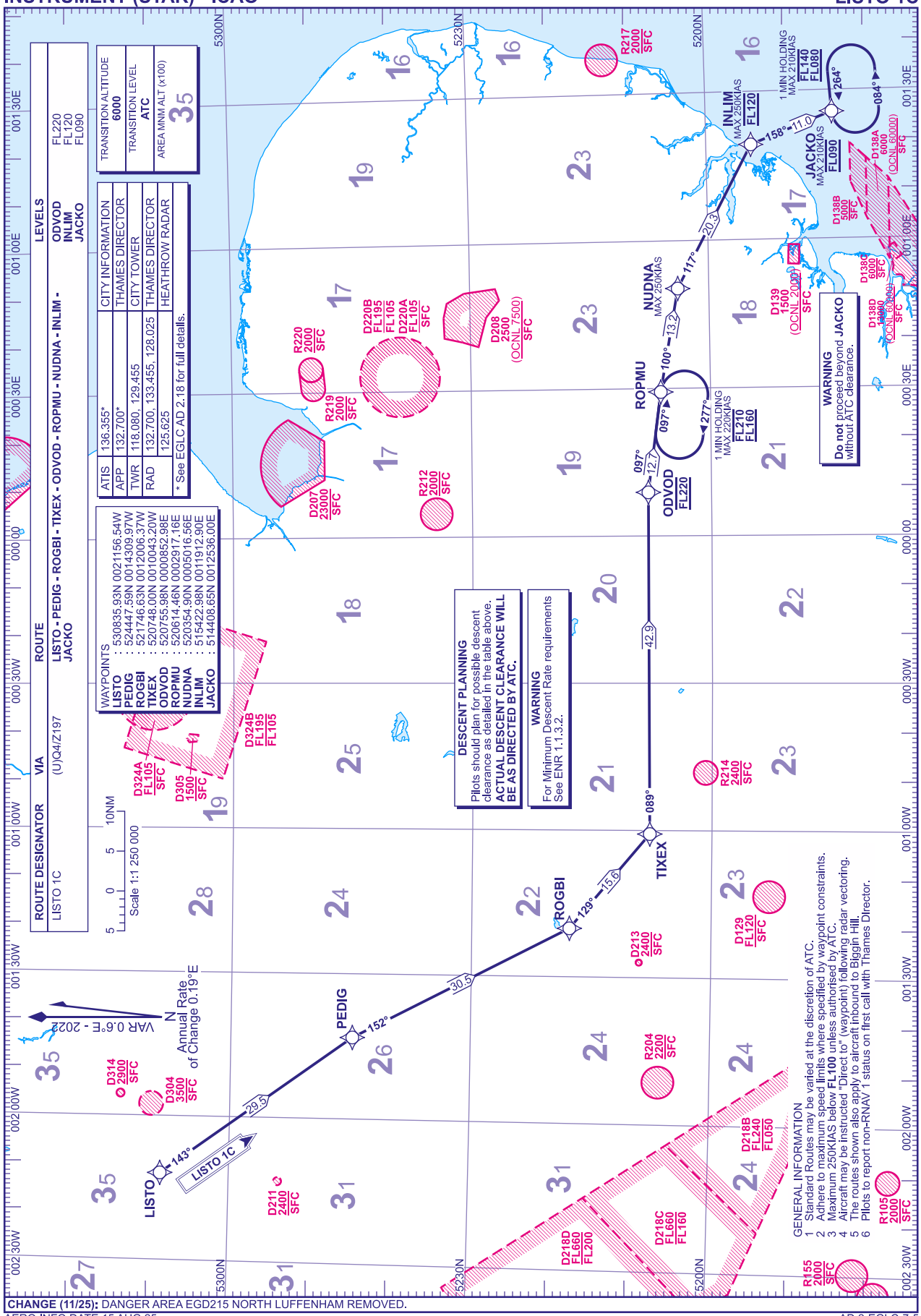
AERO INFO DATE 15 AUG 25

AD 2-EGLC-7-4

RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
LISTO 1C



CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED.

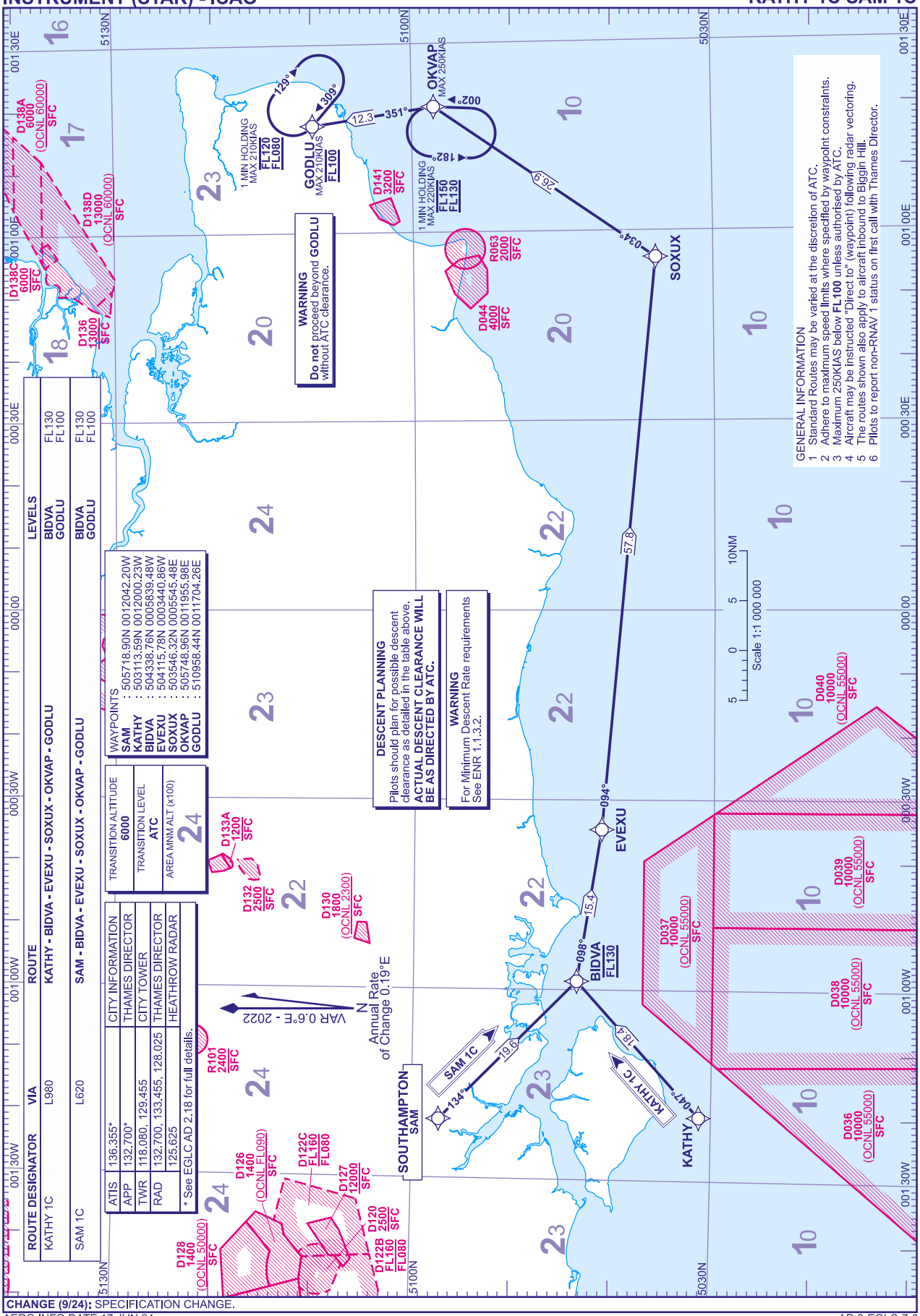
AERO INFO DATE 15 AUG 25

AD 2-EGLC-7-5

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
KATHY 1C SAM 1C



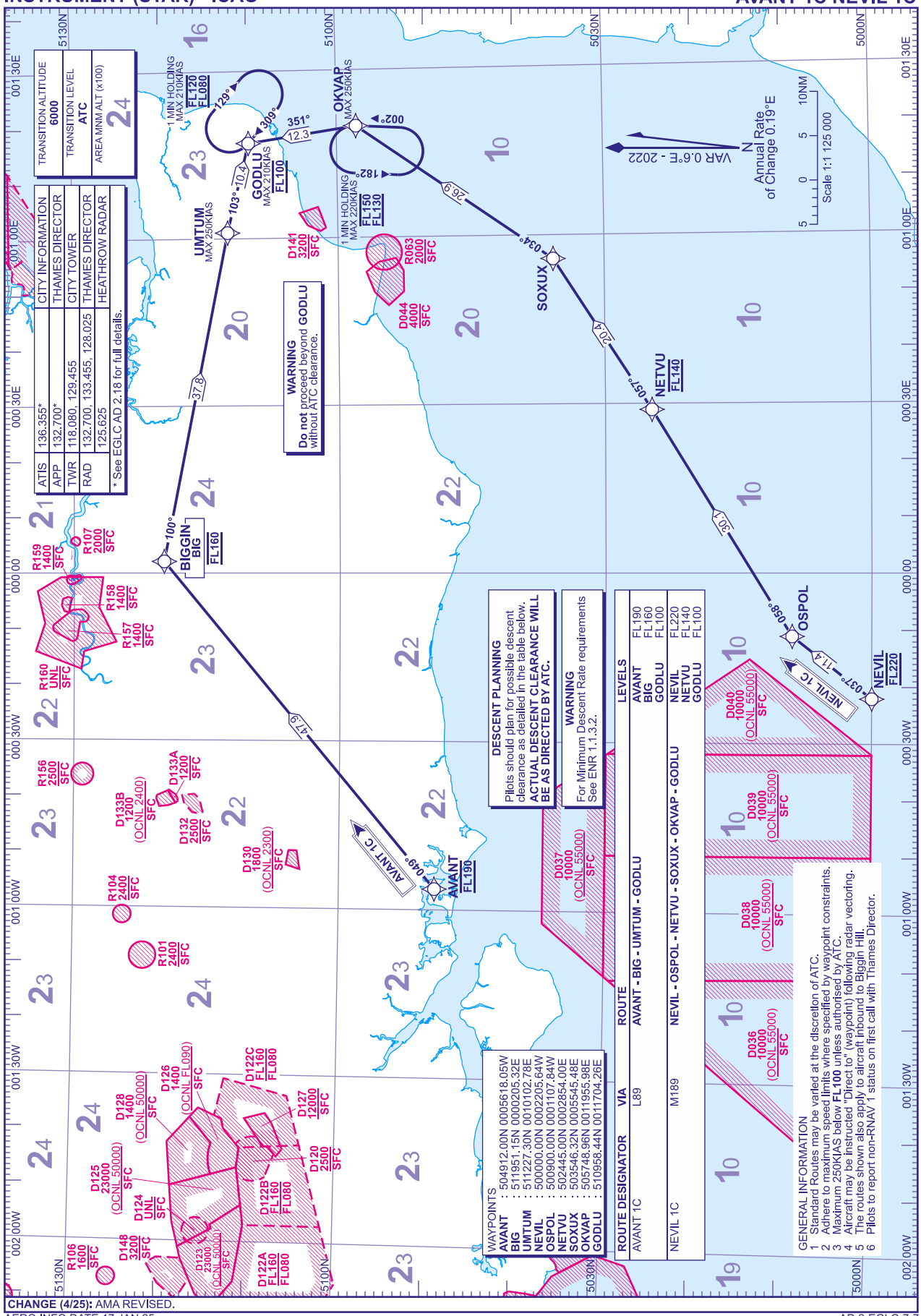
CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 JUN 24

AD 2-EGLC-7-6

RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

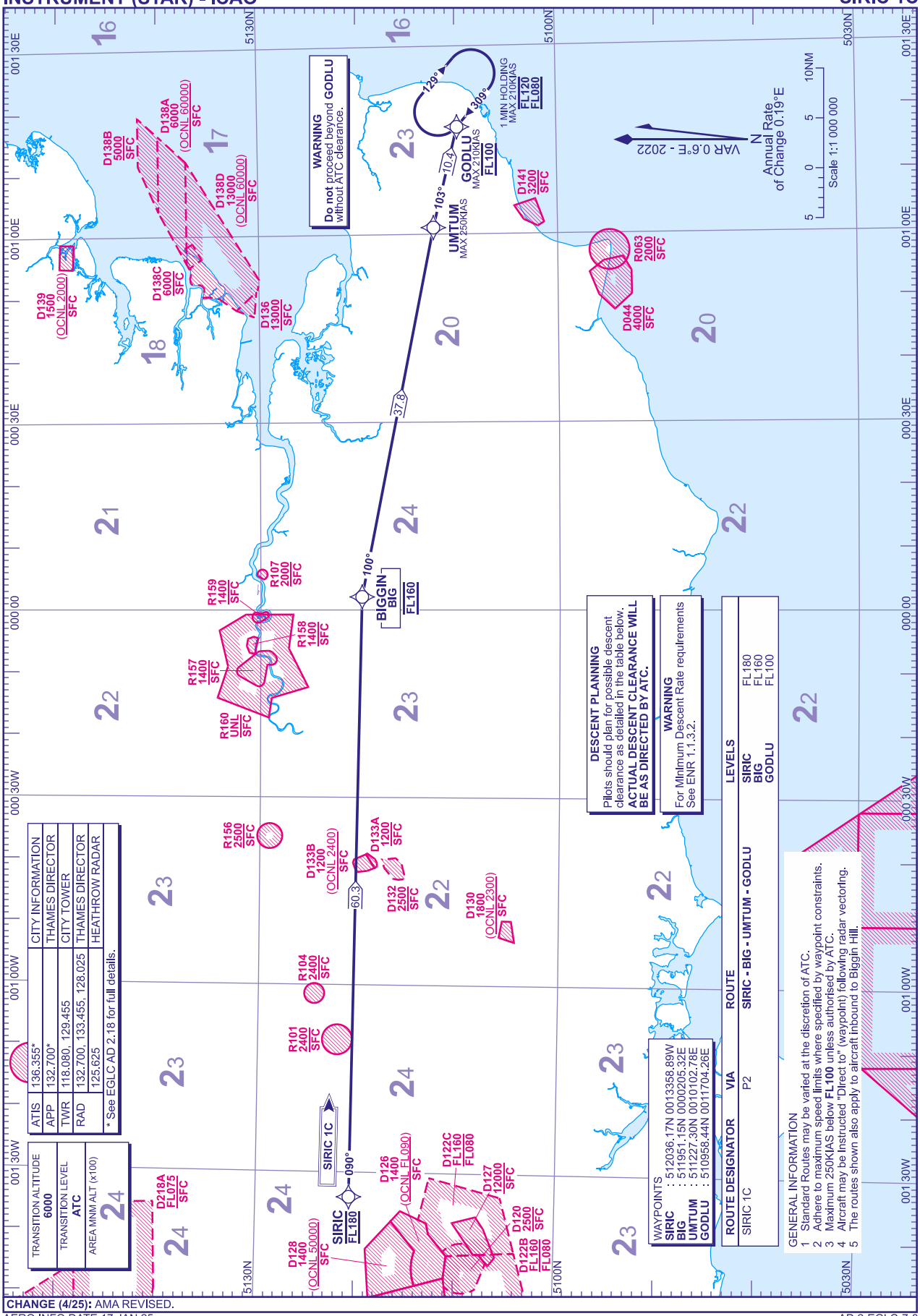
LONDON CITY
RWY 09/27
AVANT 1C NEVIL 1C



RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09/27
SIRIC 1C



CHANGE (4/25): AMA REVISED.
AERO INFO DATE 17 JAN 25

Standard Instrument Arrival Coding Tables

LONDON CITY Runway 09/27 SUMUM 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUMUM1C	001	IF	SUMUM	513814.25N 0020627.77E	N	-	-	-	-	-	-	RNAV5
SUMUM1C	002	TF	LOGAN	514451.32N 0013642.58E	N	289° (289.9°)	0.6	19.7	LEFT	-	-250	RNAV5
SUMUM1C	003	TF	JACKO	514408.65N 0012536.00E	N	264° (264.3°)	0.6	6.9	-	FL090	-210	RNAV5

LONDON CITY Runway 09/27 XAMAN 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
XAMAN1C	001	IF	XAMAN	514704.77N 0021326.94E	N	-	-	-	-	-	-	RNAV5
XAMAN1C	002	TF	LOGAN	514451.32N 0013642.58E	N	264° (264.6°)	0.6	22.9	-	-	-250	RNAV5
XAMAN1C	003	TF	JACKO	514408.65N 0012536.00E	N	264° (264.3°)	0.6	6.9	-	FL090	-210	RNAV5

LONDON CITY Runway 09/27 SILVA 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SILVA1C	001	IF	SILVA	515051.34N 0010019.40W	N	-	-	-	-	-	-	RNAV5
SILVA1C	002	TF	BOMBO	515944.29N 0002346.85W	N	068° (068.3°)	0.6	24.3	RIGHT	-	-250	RNAV5
SILVA1C	003	TF	BKY	515923.17N 0000342.87E	N	090° (091.0°)	0.6	17.0	RIGHT	-	-	RNAV5
SILVA1C	004	TF	BRAIN	514839.91N 0003906.00E	N	115° (115.9°)	0.6	24.4	LEFT	-	-220	RNAV5
SILVA1C	005	TF	CLN	515054.50N 0010851.32E	N	082° (082.9°)	0.6	18.6	RIGHT	-	-	RNAV5
SILVA1C	006	TF	JACKO	514408.65N 0012536.00E	N	122° (123.0°)	0.6	12.4	-	FL090	-210	RNAV5

CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 JUN 24

Standard Instrument Arrival Coding Tables

LONDON CITY Runway 09/27 KONAN 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KONAN1C	001	IF	KONAN	510750.75N 0020000.00E	N	-	-	-	-	-	-	RNAV5
KONAN1C	002	TF	GODLU	510958.44N 0011704.26E	N	274° (274.8°)	0.6	27.1	-	FL100	-210	RNAV5

LONDON CITY Runway 09/27 SOVAT 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SOVAT1C	001	IF	SOVAT	504645.67N 0012800.00E	N	-	-	-	-	-	-	RNAV5
SOVAT1C	002	TF	ERKEX	505240.62N 0011936.96E	N	318° (318.1°)	0.6	8.0	RIGHT	-	-250	RNAV5
SOVAT1C	003	TF	OKVAP	505748.96N 0011955.98E	N	002° (002.2°)	0.6	5.1	LEFT	-	-250	RNAV5
SOVAT1C	004	TF	GODLU	510958.44N 0011704.26E	N	351° (351.6°)	0.6	12.3	-	FL100	-210	RNAV5

LONDON CITY Runway 09/27 XAMAN 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
XAMAN1X	001	IF	XAMAN	514704.77N 0021326.94E	N	-	-	-	-	-	-250	RNAV5
XAMAN1X	002	TF	TEVMO	511024.94N 0012459.14E	N	219° (219.9°)	0.6	47.6	RIGHT	-	-210	RNAV5
XAMAN1X	003	TF	GODLU	510958.44N 0011704.26E	N	264° (265.0°)	0.6	5.0	-	FL100	-210	RNAV5

LONDON CITY Runway 09/27 SUMUM 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUMUM1X	001	IF	SUMUM	513814.25N 0020627.77E	N	-	-	-	-	-	-250	RNAV5
SUMUM1X	002	TF	TEVMO	511024.94N 0012459.14E	N	223° (223.3°)	0.6	38.1	RIGHT	-	-210	RNAV5
SUMUM1X	003	TF	GODLU	510958.44N 0011704.26E	N	264° (265.0°)	0.6	5.0	-	FL100	-210	RNAV5

CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 JUN 24

Standard Instrument Arrival Coding Tables

LONDON CITY Runway 09/27 HON 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HON1C	001	IF	HON	522124.04N 0013949.41W	N	-	-	-	-	-	-	RNAV5
HON1C	002	TF	ROGBI	521746.63N 0012006.37W	N	106° (106.5°)	0.6	12.6	RIGHT	FL200	-	RNAV5
HON1C	003	TF	TIXEX	520748.00N 0010043.20W	N	129° (129.9°)	0.6	15.6	LEFT	-	-	RNAV5
HON1C	004	TF	ODVOD	520755.98N 0000852.98E	N	089° (089.4°)	0.6	42.9	RIGHT	-	-	RNAV5
HON1C	005	TF	ROPMU	520614.46N 0002917.16E	N	097° (097.5°)	0.6	12.7	-	-	-	RNAV5
HON1C	006	TF	NUDNA	520354.90N 0005016.56E	N	100° (100.1°)	0.6	13.2	RIGHT	-	-250	RNAV5
HON1C	007	TF	INLIM	515422.98N 0011912.90E	N	117° (117.9°)	0.6	20.3	RIGHT	FL120	-250	RNAV5
HON1C	008	TF	JACKO	514408.65N 0012536.00E	N	158° (158.8°)	0.6	11.0	-	FL090	-210	RNAV5

CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 JUN 24

Standard Instrument Arrival Coding Tables

LONDON CITY Runway 09/27 LISTO 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LISTO1C	001	IF	LISTO	530835.93N 0021156.54W	N	-	-	-	-	-	-	RNAV5
LISTO1C	002	TF	PEDIG	524447.59N 0014309.97W	N	143° (143.7°)	0.6	29.5	RIGHT	-	-	RNAV5
LISTO1C	003	TF	ROGBI	521746.63N 0012006.37W	N	152° (152.3°)	0.6	30.5	LEFT	-	-	RNAV5
LISTO1C	004	TF	TIXEX	520748.00N 0010043.20W	N	129° (129.9°)	0.6	15.6	LEFT	-	-	RNAV5
LISTO1C	005	TF	ODVOD	520755.98N 0000852.98E	N	089° (089.4°)	0.6	42.9	RIGHT	FL220	-	RNAV5
LISTO1C	006	TF	ROPMU	520614.46N 0002917.16E	N	097° (097.5°)	0.6	12.7	-	-	-	RNAV5
LISTO1C	007	TF	NUDNA	520354.90N 0005016.56E	N	100° (100.1°)	0.6	13.2	RIGHT	-	-250	RNAV5
LISTO1C	008	TF	INLIM	515422.98N 0011912.90E	N	117° (117.9°)	0.6	20.3	RIGHT	FL120	-250	RNAV5
LISTO1C	009	TF	JACKO	514408.65N 0012536.00E	N	158° (158.8°)	0.6	11.0	-	FL090	-210	RNAV5

CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 JUN 24

Standard Instrument Arrival Coding Tables

LONDON CITY Runway 09/27 KATHY 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KATHY1C	001	IF	KATHY	503113.59N 0012000.23W	N	-	-	-	-	-	-	RNAV5
KATHY1C	002	TF	BIDVA	504338.76N 0005839.48W	N	047° (047.4°)	0.6	18.4	RIGHT	FL130	-	RNAV5
KATHY1C	003	TF	EVEXU	504115.78N 0003440.86W	N	098° (098.7°)	0.6	15.4	LEFT	-	-	RNAV5
KATHY1C	004	TF	SOXUX	503546.32N 0005545.48E	N	094° (094.9°)	0.6	57.8	LEFT	-	-	RNAV5
KATHY1C	005	TF	OKVAP	505748.96N 0011955.98E	N	034° (034.7°)	0.6	26.9	LEFT	-	-250	RNAV5
KATHY1C	006	TF	GODLU	510958.44N 0011704.26E	N	351° (351.6°)	0.6	12.3	-	FL100	-210	RNAV5

LONDON CITY Runway 09/27 SAM 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SAM1C	001	IF	SAM	505718.90N 0012042.20W	N	-	-	-	-	-	-	RNAV5
SAM1C	002	TF	BIDVA	504338.76N 0005839.48W	N	134° (134.3°)	0.6	19.6	LEFT	FL130	-	RNAV5
SAM1C	003	TF	EVEXU	504115.78N 0003440.86W	N	098° (098.7°)	0.6	15.4	LEFT	-	-	RNAV5
SAM1C	004	TF	SOXUX	503546.32N 0005545.48E	N	094° (094.9°)	0.6	57.8	LEFT	-	-	RNAV5
SAM1C	005	TF	OKVAP	505748.96N 0011955.98E	N	034° (034.7°)	0.6	26.9	LEFT	-	-250	RNAV5
SAM1C	006	TF	GODLU	510958.44N 0011704.26E	N	351° (351.6°)	0.6	12.3	-	FL100	-210	RNAV5

CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 JUN 24

Standard Instrument Arrival Coding Tables

LONDON CITY Runway 09/27 AVANT 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AVANT1C	001	IF	AVANT	504912.00N 0005618.05W	N	-	-	-	-	FL190	-	RNAV5
AVANT1C	002	TF	BIG	511951.15N 0000205.32E	N	049° (049.8°)	0.6	47.9	RIGHT	FL160	-	RNAV5
AVANT1C	003	TF	UMTUM	511227.30N 0010102.78E	N	100° (100.9°)	0.6	37.8	-	-	-250	RNAV5
AVANT1C	004	TF	GODLU	510958.44N 0011704.26E	N	103° (103.7°)	0.6	10.4	-	FL100	-210	RNAV5

LONDON CITY Runway 09/27 NEVIL 1C

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NEVIL1C	001	IF	NEVIL	500000.00N 0002205.64W	N	-	-	-	-	FL220	-	RNAV5
NEVIL1C	002	TF	OSPOL	500900.00N 0001107.84W	N	037° (038.0°)	0.6	11.4	RIGHT	-	-	RNAV5
NEVIL1C	003	TF	NETVU	502445.00N 0002854.00E	N	058° (058.2°)	0.6	30.1	-	FL140	-	RNAV5
NEVIL1C	004	TF	SOXUX	503546.32N 0005545.48E	N	057° (057.1°)	0.6	20.4	LEFT	-	-	RNAV5
NEVIL1C	005	TF	OKVAP	505748.96N 0011955.98E	N	034° (034.7°)	0.6	26.9	LEFT	-	-250	RNAV5
NEVIL1C	006	TF	GODLU	510958.44N 0011704.26E	N	351° (351.6°)	0.6	12.3	-	FL100	-210	RNAV5

LONDON CITY Runway 09/27 SIRIC 1C

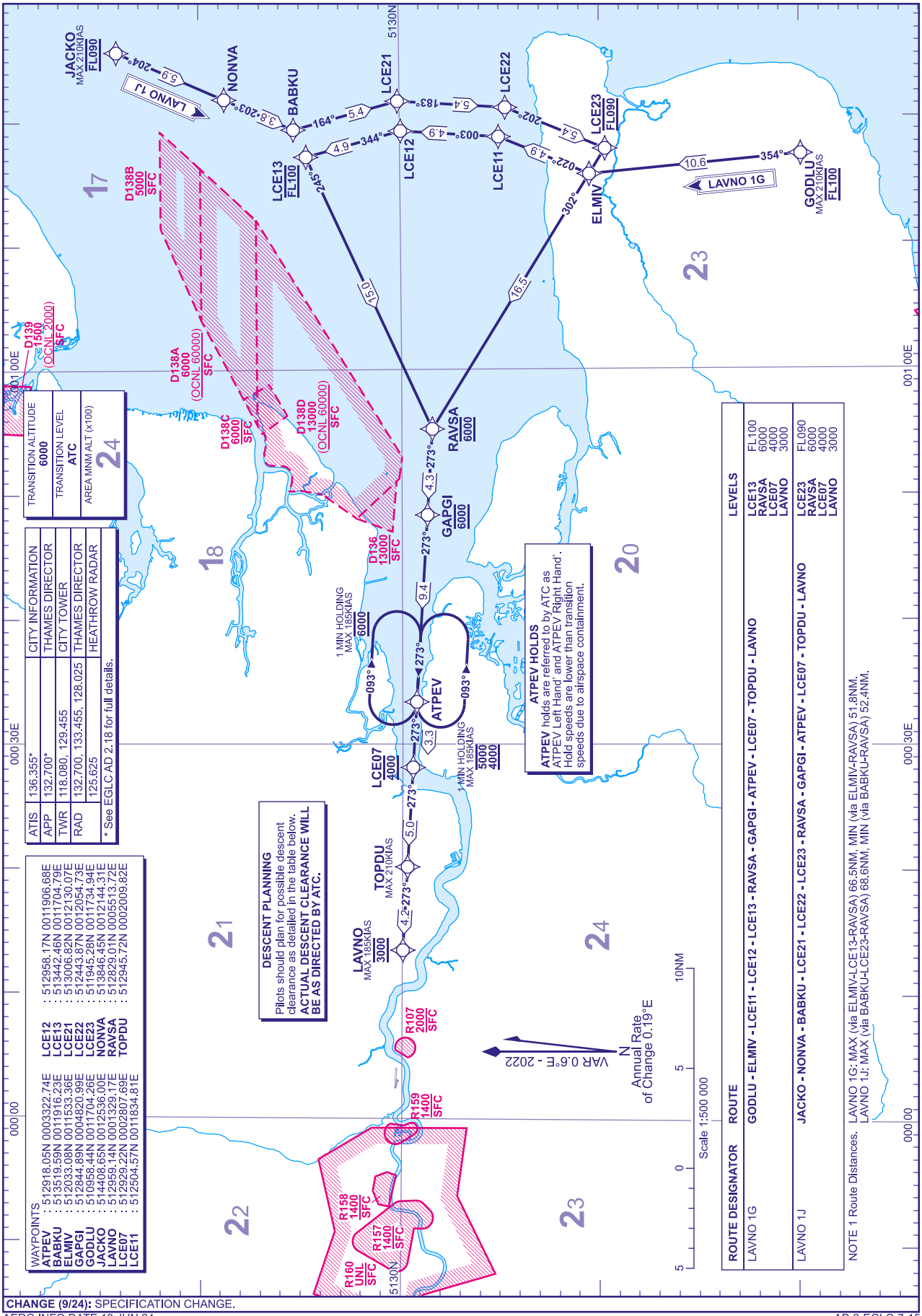
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SIRIC1C	001	IF	SIRIC	512036.17N 0013358.89W	N	-	-	-	-	FL180	-	RNAV1
SIRIC1C	002	TF	BIG	511951.15N 0000205.32E	N	090° (090.1°)	0.6	60.3	RIGHT	FL160	-	RNAV1
SIRIC1C	003	TF	UMTUM	511227.30N 0010102.78E	N	100° (100.9°)	0.6	37.8	-	-	-250	RNAV1
SIRIC1C	004	TF	GODLU	510958.44N 0011704.26E	N	103° (103.7°)	0.6	10.4	-	FL100	-210	RNAV1

CHANGE (9/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 JUN 24

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 27
LAVNO 1G 1J



CHANGE (9/24): SPECIFICATION CHANGE.

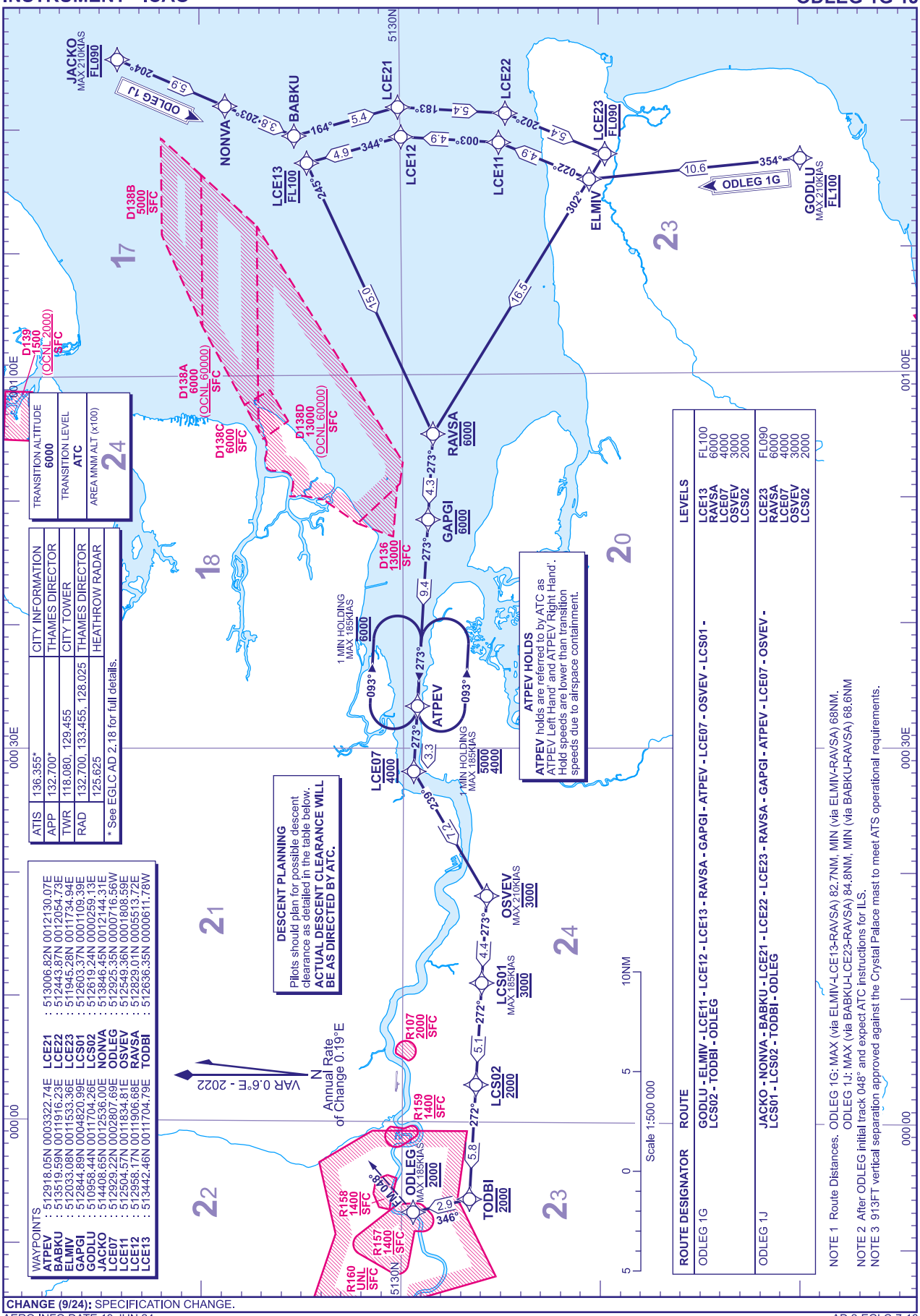
AERO INFO DATE 18 JUN 24

AD 2-EGLC-7-15

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON CITY
RWY 09
ODLEG 1G 1J



TRANSITION ALTITUDE	TRANSITION LEVEL	AREA MNM ALT (x100)
6000	ATC	24

ATIS	136.355*	CITY INFORMATION
APP	132.700*	THAMES DIRECTOR
TWR	118.080, 129.455	CITY TOWER
RAD	132.700, 133.455, 128.025	THAMES DIRECTOR
	125.625	HEATHROW RADAR

* See EGLC AD 2.18 for full details.

WAYPOINTS	
ATPEV	512918.05N 0003322.74E
BABKU	513519.59N 0011916.23E
ELMIV	512033.08N 0011533.36E
GAPGI	512844.89N 0004820.99E
GODLU	510958.44N 0011704.26E
JACKO	514408.65N 0012536.00E
LCE07	512929.22N 0002807.69E
LCE11	512504.57N 0011834.81E
LCE12	512958.17N 0011906.68E
LCE13	513442.46N 0011704.79E
LCE21	513006.82N 0012130.07E
LCE22	512443.87N 0012054.73E
LCE23	511945.28N 0011734.94E
LCS01	512603.37N 0001109.39E
LCS02	512619.24N 0000259.13E
NONVA	513846.45N 0012144.31E
ODLEG	512925.35N 0000716.56W
OSVEV	512549.36N 0001808.59E
RAVSA	512829.01N 0000513.72E
TODBI	512636.35N 0000611.78W

DESCENT PLANNING
Pilots should plan for possible descent clearance as detailed in the table below.
ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

ATPEV HOLDS
ATPEV holds are referred to by ATC as ATPEV Left Hand' and ATPEV Right Hand'. Hold speeds are lower than transition speeds due to airspace containment.

ROUTE DESIGNATOR	ROUTE	LEVELS	
ODLEG 1G	GODLU - ELMIV - LCE11 - LCE12 - LCE13 - RAVSA - GAPGI - ATPEV - LCE07 - OSVEV - LCS01 - LCS02 - TODBI - ODLEG	LCE13 RAVSA LCE07 OSVEV LCS02	FL100 6000 4000 3000 2000
ODLEG 1J	JACKO - NONVA - BABKU - LCE21 - LCE22 - LCE23 - RAVSA - GAPGI - ATPEV - LCE07 - OSVEV - LCS01 - LCS02 - TODBI - ODLEG	LCE23 RAVSA LCE07 OSVEV LCS02	FL090 6000 4000 3000 2000

NOTE 1 Route Distances. ODLEG 1G: MAX (via ELMIV-LCE13-RAVSA) 82.7NM, MIN (via ELMIV-RAVSA) 68NM.
ODLEG 1J: MAX (via BABKU-LCE23-RAVSA) 84.8NM, MIN (via BABKU-RAVSA) 68.6NM
NOTE 2 After ODLEG initial track 048° and expect ATC instructions for ILS.
NOTE 3 913FT vertical separation approved against the Crystal Palace mast to meet ATS operational requirements.

CHANGE (9/24): SPECIFICATION CHANGE.

AERO INFO DATE 19 JUN 24

AD 2-EGLC-7-16

Approach Transitions Coding Tables

LONDON CITY Runway 27 LAVNO 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAVNO1G	001	IF	GODLU	510958.44N 0011704.26E	N	-	-	-	-	FL100	-210	RNAV1
LAVNO1G	002	TF	ELMIV	512033.08N 0011533.36E	N	354° (354.9°)	0.6	10.6	RIGHT	-	-	RNAV1
LAVNO1G	003	TF	LCE11	512504.57N 0011834.81E	N	022° (022.7°)	0.6	4.9	LEFT	-	-	RNAV1
LAVNO1G	004	TF	LCE12	512958.17N 0011906.68E	N	003° (003.9°)	0.6	4.9	LEFT	-	-	RNAV1
LAVNO1G	005	TF	LCE13	513442.46N 0011704.79E	N	344° (345.0°)	0.6	4.9	LEFT	FL100	-	RNAV1
LAVNO1G	006	TF	RAVSA	512829.01N 0005513.72E	N	245° (245.6°)	0.6	15.0	RIGHT	6000	-	RNAV1
LAVNO1G	007	TF	GAPGI	512844.89N 0004820.99E	N	273° (273.6°)	0.6	4.3	-	6000	-	RNAV1
LAVNO1G	008	TF	ATPEV	512918.05N 0003322.74E	N	273° (273.5°)	0.6	9.4	-	-	-	RNAV1
LAVNO1G	009	TF	LCE07	512929.22N 0002807.69E	N	273° (273.3°)	0.6	3.3	-	4000	-	RNAV1
LAVNO1G	010	TF	TOPDU	512945.72N 0002009.82E	N	273° (273.2°)	0.6	5.0	-	-	-210	RNAV1
LAVNO1G	011	TF	LAVNO	512959.14N 0001329.17E	N	273° (273.1°)	0.6	4.2	-	3000	-185	RNAV1

LONDON CITY Runway 27 LAVNO 1J

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAVNO1J	001	IF	JACKO	514408.65N 0012536.00E	N	-	-	-	-	FL090	-210	RNAV1
LAVNO1J	002	TF	NONVA	513846.45N 0012144.31E	N	204° (204.1°)	0.6	5.9	-	-	-	RNAV1
LAVNO1J	003	TF	BABKU	513519.59N 0011916.23E	N	203° (204.0°)	0.6	3.8	LEFT	-	-	RNAV1
LAVNO1J	004	TF	LCE21	513006.82N 0012130.07E	N	164° (165.0°)	0.6	5.4	RIGHT	-	-	RNAV1
LAVNO1J	005	TF	LCE22	512443.87N 0012054.73E	N	183° (183.9°)	0.6	5.4	RIGHT	-	-	RNAV1
LAVNO1J	006	TF	LCE23	511945.28N 0011734.94E	N	202° (202.7°)	0.6	5.4	RIGHT	FL090	-	RNAV1
LAVNO1J	007	TF	RAVSA	512829.01N 0005513.72E	N	302° (302.1°)	0.6	16.5	LEFT	6000	-	RNAV1
LAVNO1J	008	TF	GAPGI	512844.89N 0004820.99E	N	273° (273.6°)	0.6	4.3	-	6000	-	RNAV1
LAVNO1J	009	TF	ATPEV	512918.05N 0003322.74E	N	273° (273.5°)	0.6	9.4	-	-	-	RNAV1
LAVNO1J	010	TF	LCE07	512929.22N 0002807.69E	N	273° (273.3°)	0.6	3.3	-	4000	-	RNAV1
LAVNO1J	011	TF	TOPDU	512945.72N 0002009.82E	N	273° (273.2°)	0.6	5.0	-	-	-210	RNAV1
LAVNO1J	012	TF	LAVNO	512959.14N 0001329.17E	N	273° (273.1°)	0.6	4.2	-	3000	-185	RNAV1

CHANGE (13/23): GAPGI LEVEL CONSTRAINT REVISED.
AERO INFO DATE 23 OCT 23

Approach Transitions Coding Tables

LONDON CITY Runway 09 ODLEG 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ODLEG1G	001	IF	GODLU	510958.44N 0011704.26E	N	-	-	-	-	FL100	-210	RNAV1
ODLEG1G	002	TF	ELMIV	512033.08N 0011533.36E	N	354° (354.9°)	0.6	10.6	RIGHT	-	-	RNAV1
ODLEG1G	003	TF	LCE11	512504.57N 0011834.81E	N	022° (022.7°)	0.6	4.9	LEFT	-	-	RNAV1
ODLEG1G	004	TF	LCE12	512958.17N 0011906.68E	N	003° (003.9°)	0.6	4.9	LEFT	-	-	RNAV1
ODLEG1G	005	TF	LCE13	513442.46N 0011704.79E	N	344° (345.0°)	0.6	4.9	LEFT	FL100	-	RNAV1
ODLEG1G	006	TF	RAVSA	512829.01N 0005513.72E	N	245° (245.6°)	0.6	15.0	RIGHT	6000	-	RNAV1
ODLEG1G	007	TF	GAPGI	512844.89N 0004820.99E	N	273° (273.6°)	0.6	4.3	-	6000	-	RNAV1
ODLEG1G	008	TF	ATPEV	512918.05N 0003322.74E	N	273° (273.5°)	0.6	9.4	-	-	-	RNAV1
ODLEG1G	009	TF	LCE07	512929.22N 0002807.69E	N	273° (273.3°)	0.6	3.3	LEFT	4000	-	RNAV1
ODLEG1G	010	TF	OSVEV	512549.36N 0001808.59E	N	239° (239.6°)	0.6	7.2	RIGHT	3000	-210	RNAV1
ODLEG1G	011	TF	LCS01	512603.37N 0001109.39E	N	273° (273.1°)	0.6	4.4	-	3000	-185	RNAV1
ODLEG1G	012	TF	LCS02	512619.24N 0000259.13E	N	272° (273.0°)	0.6	5.1	-	2000	-	RNAV1
ODLEG1G	013	TF	TODBI	512636.35N 0000611.78W	N	272° (272.9°)	0.6	5.8	RIGHT	2000	-	RNAV1
ODLEG1G	014	TF	ODLEG	512925.35N 0000716.56W	N	346° (346.5°)	0.6	2.9	RIGHT	-	-	RNAV1
ODLEG1G	015	FM	ODLEG	512925.35N 0000716.56W	N	048° (048.9°)	0.6	0.0	-	2000	-185	RNAV1

LONDON CITY Runway 09 ODLEG 1J

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ODLEG1J	001	IF	JACKO	514408.65N 0012536.00E	N	-	-	-	-	FL090	-210	RNAV1
ODLEG1J	002	TF	NONVA	513846.45N 0012144.31E	N	204° (204.1°)	0.6	5.9	-	-	-	RNAV1
ODLEG1J	003	TF	BABKU	513519.59N 0011916.23E	N	203° (204.0°)	0.6	3.8	LEFT	-	-	RNAV1
ODLEG1J	004	TF	LCE21	513006.82N 0012130.07E	N	164° (165.0°)	0.6	5.4	RIGHT	-	-	RNAV1
ODLEG1J	005	TF	LCE22	512443.87N 0012054.73E	N	183° (183.9°)	0.6	5.4	RIGHT	-	-	RNAV1
ODLEG1J	006	TF	LCE23	511945.28N 0011734.94E	N	202° (202.7°)	0.6	5.4	RIGHT	FL090	-	RNAV1
ODLEG1J	007	TF	RAVSA	512829.01N 0005513.72E	N	302° (302.1°)	0.6	16.5	LEFT	6000	-	RNAV1
ODLEG1J	008	TF	GAPGI	512844.89N 0004820.99E	N	273° (273.6°)	0.6	4.3	-	6000	-	RNAV1
ODLEG1J	009	TF	ATPEV	512918.05N 0003322.74E	N	273° (273.5°)	0.6	9.4	-	-	-	RNAV1
ODLEG1J	010	TF	LCE07	512929.22N 0002807.69E	N	273° (273.3°)	0.6	3.3	LEFT	4000	-	RNAV1
ODLEG1J	011	TF	OSVEV	512549.36N 0001808.59E	N	239° (239.6°)	0.6	7.2	RIGHT	3000	-210	RNAV1
ODLEG1J	012	TF	LCS01	512603.37N 0001109.39E	N	273° (273.1°)	0.6	4.4	-	3000	-185	RNAV1
ODLEG1J	013	TF	LCS02	512619.24N 0000259.13E	N	272° (273.0°)	0.6	5.1	-	2000	-	RNAV1
ODLEG1J	014	TF	TODBI	512636.35N 0000611.78W	N	272° (272.9°)	0.6	5.8	RIGHT	2000	-	RNAV1
ODLEG1J	015	TF	ODLEG	512925.35N 0000716.56W	N	346° (346.5°)	0.6	2.9	RIGHT	-	-	RNAV1
ODLEG1J	016	FM	ODLEG	512925.35N 0000716.56W	N	048° (048.9°)	0.6	0.0	-	2000	-185	RNAV1

CHANGE (13/23): GAPGI LEVEL CONSTRAINT REVISED.
AERO INFO DATE 23 OCT 23

RNAV Hold Coding Tables

LONDON CITY GODLU Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GODLU	-	-	GODLU	510958.44N 0011704.26E	Y	309° (310.0°)	0.6	1 MIN	RIGHT	-FL120 +FL080	-210	RNAV1/ RNAV5

LONDON CITY JACKO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
JACKO	-	-	JACKO	514408.65N 0012536.00E	Y	264° (264.3°)	0.6	1 MIN	LEFT	-FL140 +FL080	-210	RNAV5

LONDON CITY OKVAP Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OKVAP	-	-	OKVAP	505748.96N 0011955.98E	Y	002° (002.2°)	0.6	1 MIN	LEFT	-FL150 +FL130	-220	RNAV5

LONDON CITY ROPMU Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ROPMU	-	-	ROPMU	520614.46N 0002917.16E	Y	097° (097.5°)	0.6	1 MIN	RIGHT	-FL210 +FL160	-220	RNAV5

CHANGE (13/23): SPECIFICATION CHANGE ONLY
AERO INFO DATE 19 OCT 23

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INSTRUMENT APPROACH CHART - ICAO

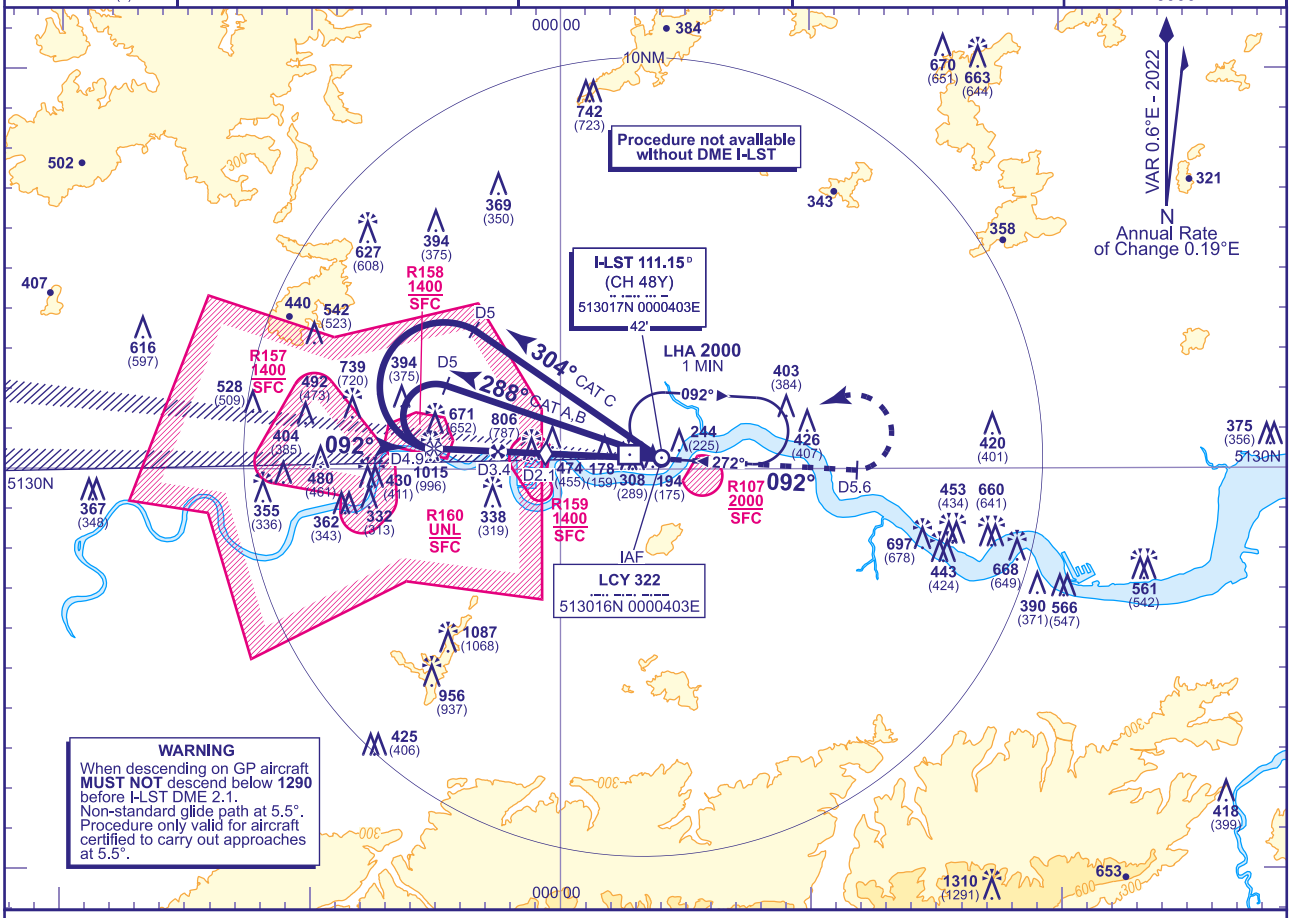
LONDON CITY
ILS(5.5°GP)/ DME/NDB(L) RWY 09
(ACFT CAT A,B,C)



MSA 25NM NDB(L) LCY

APP	132.700	THAMES DIRECTOR		AD ELEVATION	20
TWR	118.080 129.455	CITY TOWER		THR ELEVATION	19
RAD	133.455, 128.025	THAMES DIRECTOR		OBSTACLE ELEVATION	
ATIS	136.355	CITY INFORMATION		1310 AMSL (1291) (ABOVE THR)	
				BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

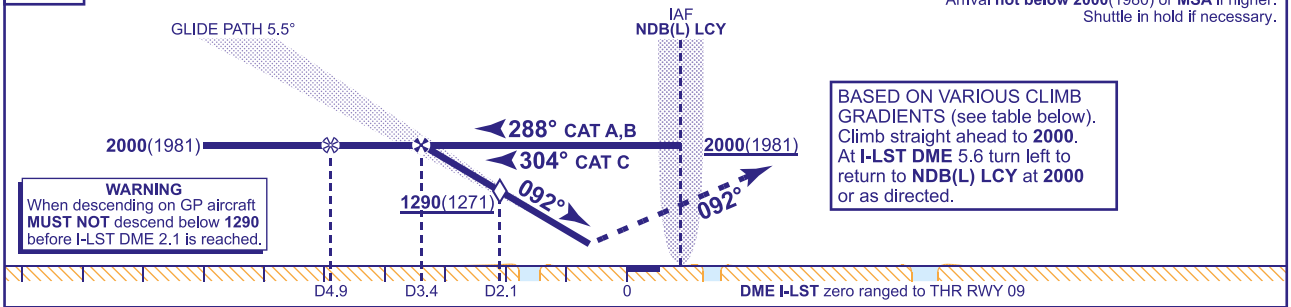


RECOMMENDED PROFILE GLIDE PATH 5.5°, 585FT/NM

DME I-LST	3.4	3.0	2.1 (SDF)	2.0	1.0
ALT(HGT)	**2000**(1981)	**1810**(1791)	**1290**(1271)	**1230**(1211)	**640**(621)

RDH 35

Arrival **not below 2000**(1980) or **MSA** if higher.
Shuttle in hold if necessary.



Aircraft Category		A	B	C	BAe 146
OCA (OCH)	CLIMB GRAD 2.5%	**490**(471)	**520**(501)	**540**(521)	**460**(441)
	CLIMB GRAD 3.0%	**380**(361)	**410**(391)	**430**(411)	**350**(331)
VM(C)OCA (OCH AAL)	NOT APPLICABLE				

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1560	1365	1170	975	780

RADAR VECTORING/RNAV1 TRANSITION
Aircraft will normally be radar vectored/positioned to the LOC by Thames Director to be established on the LOC no later than I-LST DME 4.9.

CHANGE (10/24): I-LST DME ELEVATION.

AERO INFO DATE 23 JUL 24

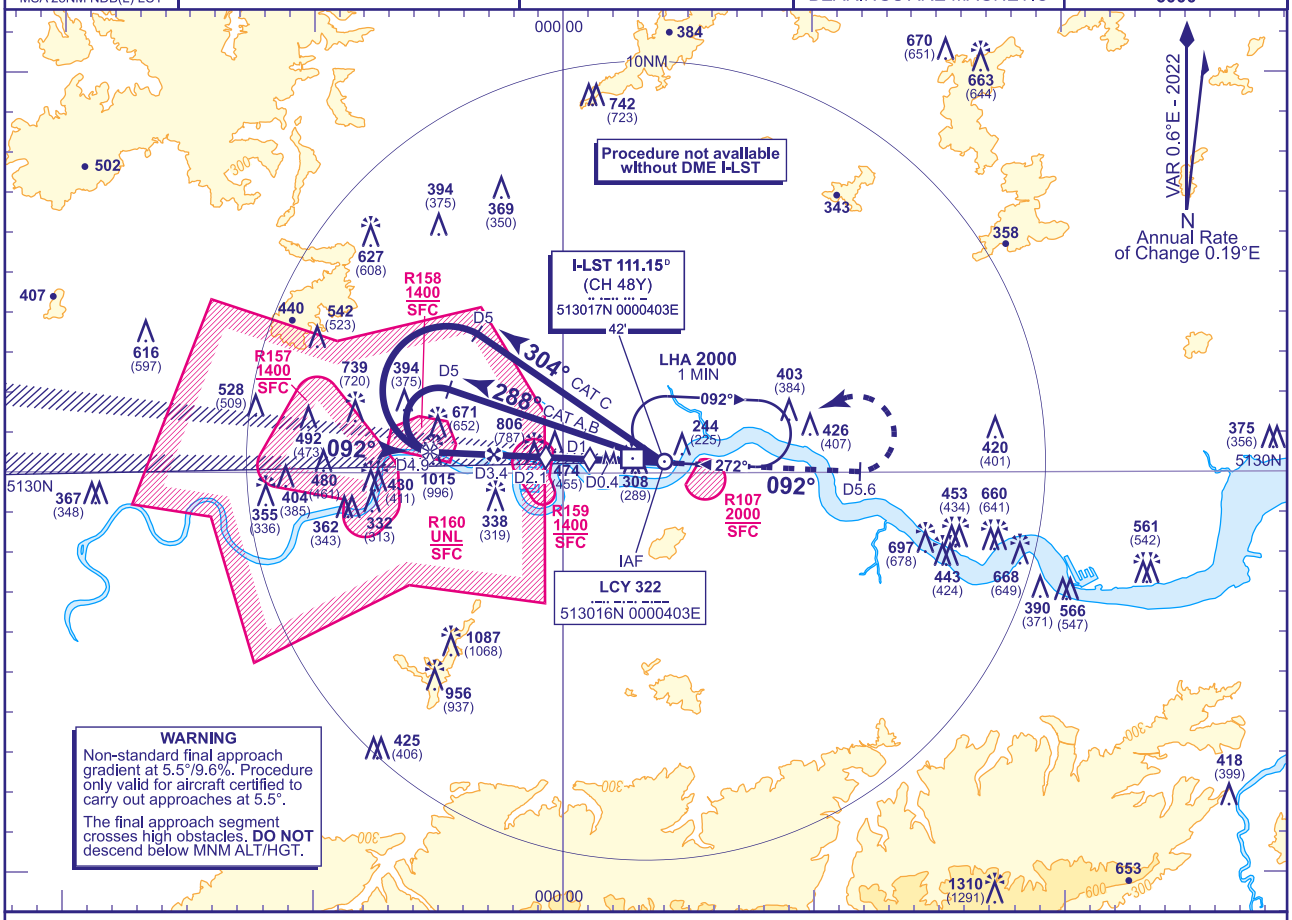
INSTRUMENT APPROACH CHART - ICAO

LONDON CITY
LOC/DME/NDB(L)
RWY 09
(ACFT CAT A,B,C)

APP 132.700	THAMES DIRECTOR	AD ELEVATION	20
TWR 118.080 129.455	CITY TOWER	THR ELEVATION	19
RAD 133.455, 128.025	THAMES DIRECTOR	OBSTACLE ELEVATION **1310 AMSL** (1291) (ABOVE THR)	
ATIS 136.355	CITY INFORMATION	BEARINGS ARE MAGNETIC	

MSA 25NM NDB(L) LCY

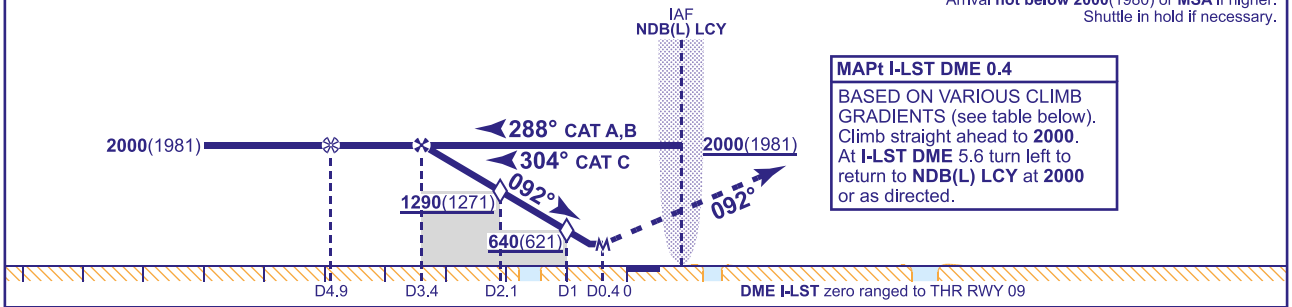
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 9.6%, 585FT/NM

DME I-LST	3.4	3.0	2.1 **(SDF)**	2.0	1.0 **(SDF)**
ALT(HGT)	**2000**(1981)	**1810**(1791)	**1290**(1271)	**1230**(1211)	**640**(621)

Arrival **not below 2000**(1980) or **MSA** if higher.
Shuttle in hold if necessary.



MAPt I-LST DME 0.4

BASED ON VARIOUS CLIMB GRADIENTS (see table below).
Climb straight ahead to **2000**.
At **I-LST DME** 5.6 turn left to return to **NDB(L) LCY** at **2000** or as directed.

Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**CLIMB GRAD 2.5%**	**560**(541)	**560**(541)	**560**(541)
	CLIMB GRAD 3.0%	**490**(471)	**490**(471)	**490**(471)
VM(C)OCA (OCH AAL)	**NOT APPLICABLE**			

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	1560	1365	1170	975	780

RADAR VECTORING/RNAV1 TRANSITION
Aircraft will normally be radar vectored/positioned to the LOC by Thames Director to be established on the LOC no later than I-LST DME 4.9.

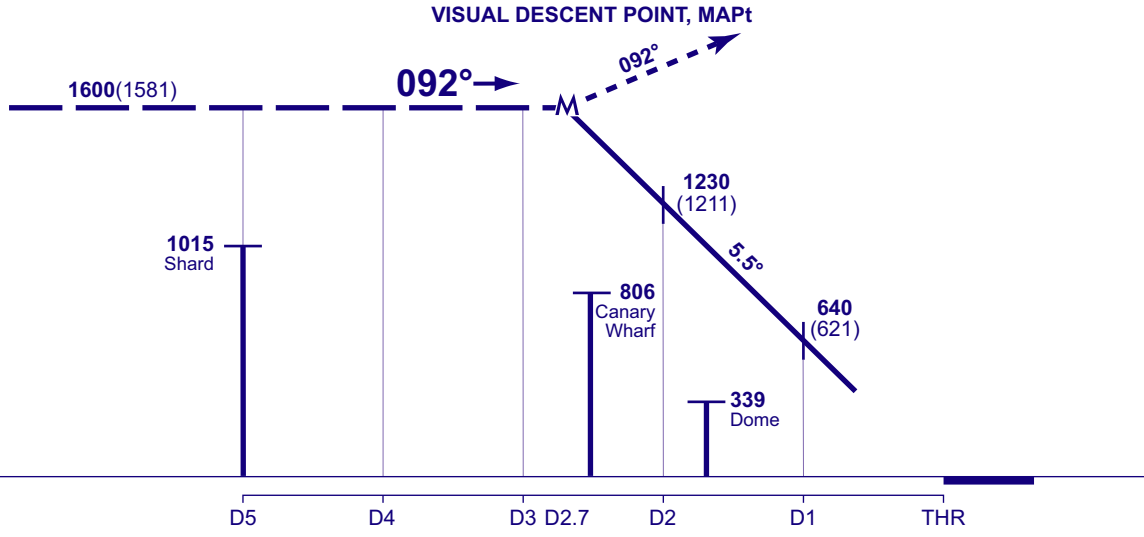
CHANGE (10/24): I-LST DME ELEVATION.

AERO INFO DATE 23 JUL 24

AD 2-EGLC-8-2

VISUAL APPROACH PROFILE — LONDON CITY

AIRCRAFT CAT	AD ELEV	THR ELEV	VAR	RWY 09
A,B,C	**20FT**	**19FT**	**0.6°E**	



DME I-LST zero ranged to THR RWY 09

NOTE: Do not descend below **1600**(1581) without required visual references, PAPI acquisition and PAPI guidance.

BEARINGS ARE MAGNETIC

CHANGE (7/23): THR ELEVATION.
AERO INFO DATE 17 APR 23

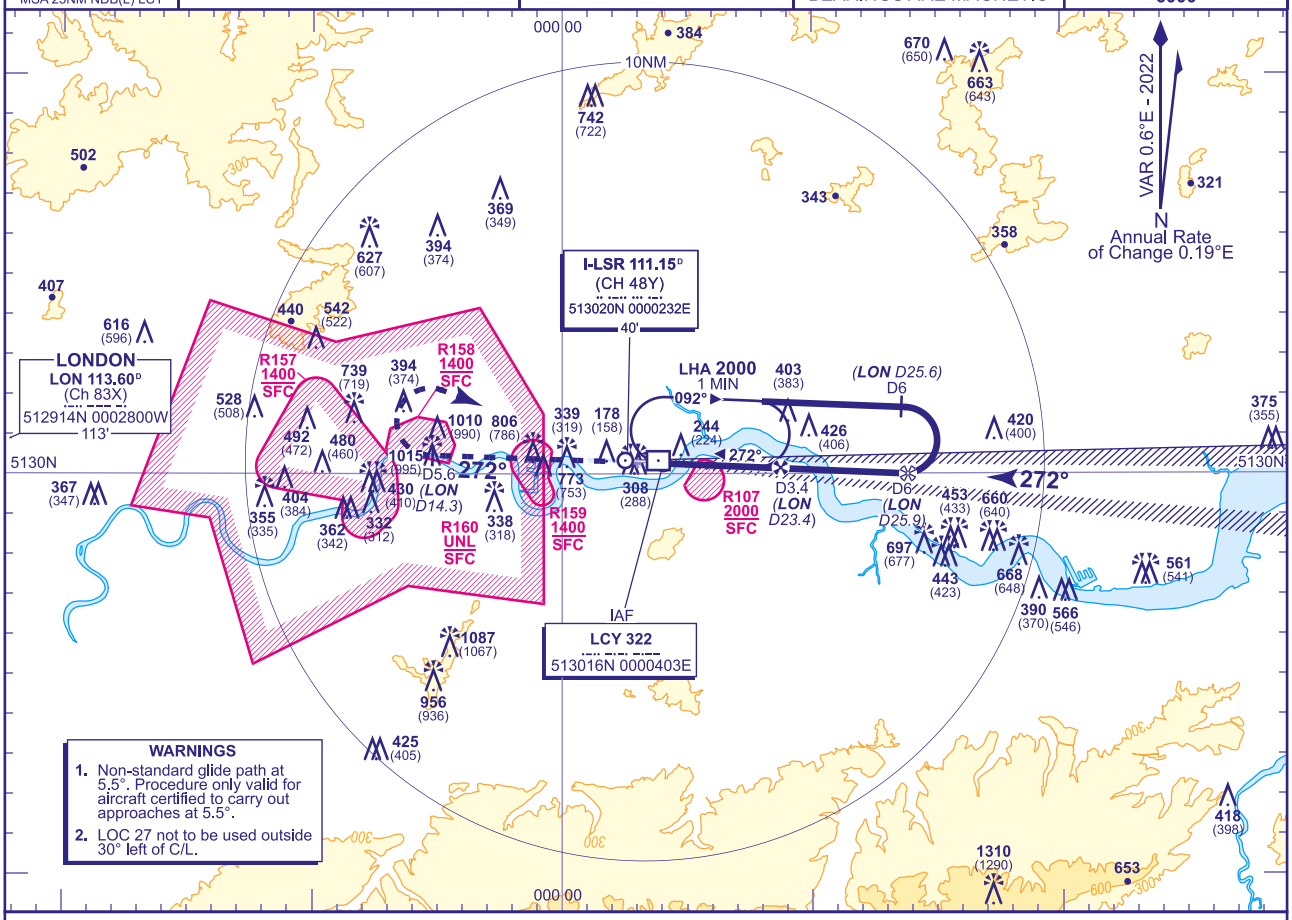
INSTRUMENT APPROACH CHART - ICAO

LONDON CITY
ILS(5.5°GP)/ DME/NDB(L) RWY 27
(ACFT CAT A,B,C)

APP	132.700	THAMES DIRECTOR	AD ELEVATION	20
TWR	118.080, 129.455	CITY TOWER	THR ELEVATION	20
RAD	133.455, 128.025	THAMES DIRECTOR	OBSTACLE ELEVATION **1310 AMSL** (1290) (ABOVE THR)	
ATIS	136.355	CITY INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

MSA 25NM NDB(L) LCY



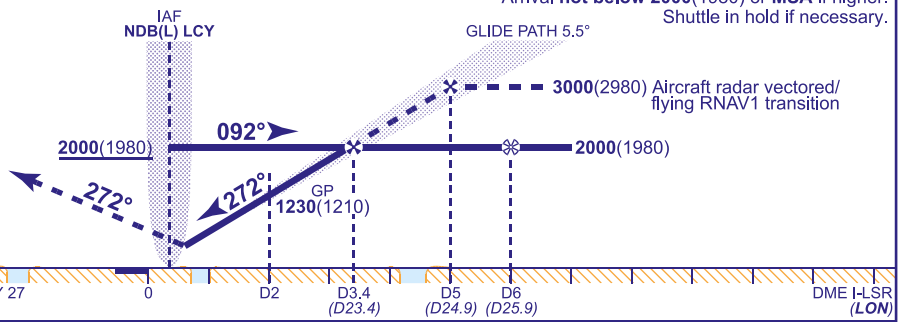
RECOMMENDED PROFILE GLIDE PATH 5.5°, 585FT/NM

DME I-LSR(LON)	3.4(23.4)	3.0(23.0)	2.5(22.5)	2.0(22.0)	1.0(21.0)
ALT(HGT)	**2000**(1980)	**1820**(1800)	**1520**(1500)	**1230**(1210)	**650**(630)

RDH 35

Arrival **not below 2000**(1980) or **MSA** if higher. Shuttle in hold if necessary.

BASED ON VARIOUS CLIMB GRADIENTS (see table below). Climb straight ahead to **2000.** At **I-LSR DME** 5.6 (LON DME 14.3) turn right to return to **NDB(L) LCY** at **2000** or as directed.



Aircraft Category		A	B	C	BAe 146
OCA (OCH)	CLIMB GRAD 2.5%	**570**(550)	**600**(580)	**630**(610)	**540**(520)
	CLIMB GRAD 3.0%	**510**(490)	**540**(520)	**570**(550)	**480**(460)
	CLIMB GRAD 4.0%	**490**(470)	**520**(500)	**540**(520)	**460**(440)
VM(C)OCA (OCH AAL)	NOT APPLICABLE				

Rate of descent						
	G/S KT	160	140	120	100	80
	FT/MIN	1560	1365	1170	975	780

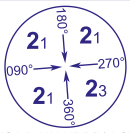
RADAR VECTORING/RNAV1 TRANSITION
Aircraft will normally be radar vectored/positioned to the LOC by Thames Director to be established on the LOC no later than I-LSR DME 6.

CHANGE (10/24): I-LSR DME ELEVATION.

AERO INFO DATE 23 JUL 24 AD 2-EGLC-8-4

INSTRUMENT APPROACH CHART - ICAO

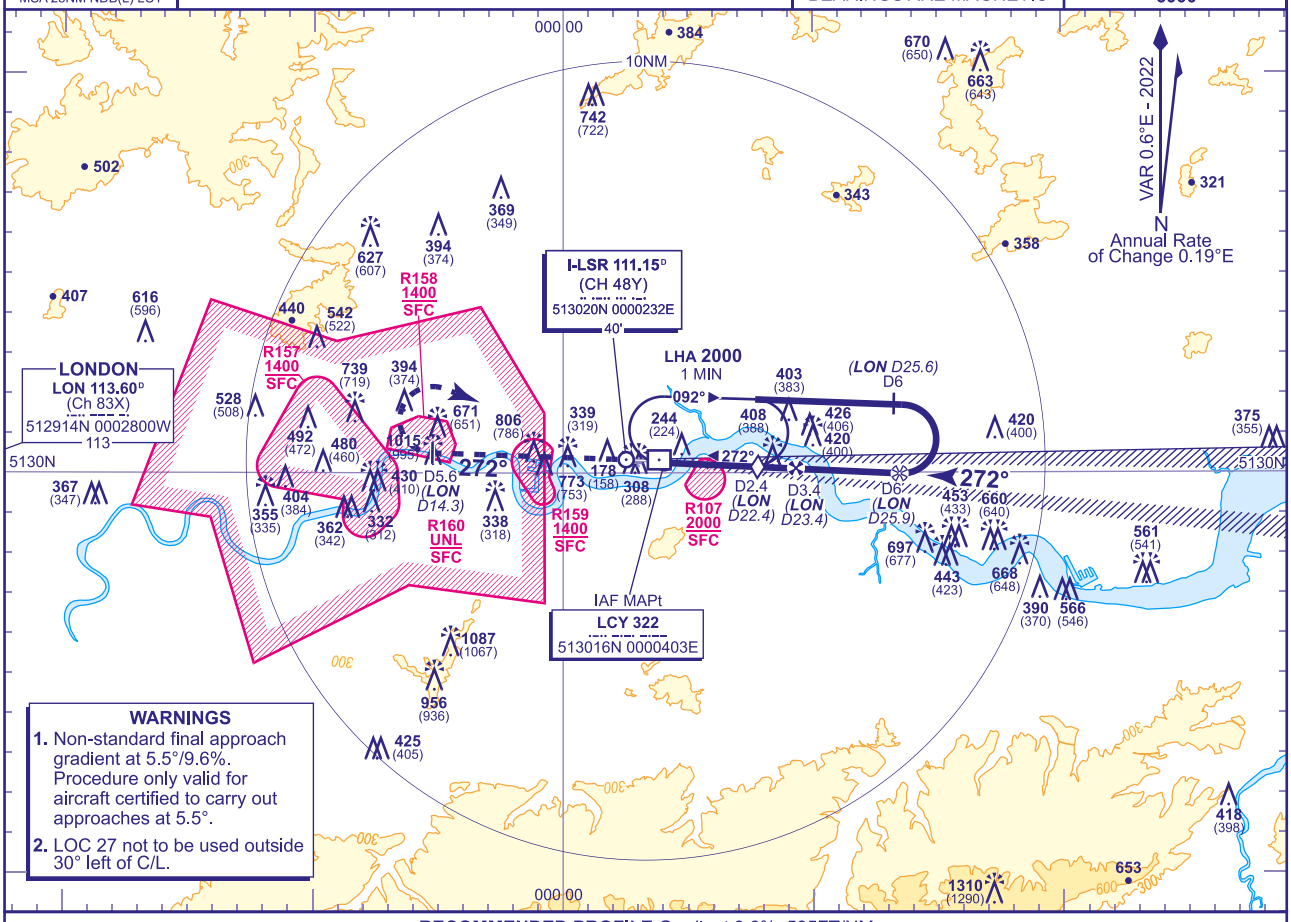
LONDON CITY
LOC/DME/NDB(L)
RWY 27
(ACFT CAT A,B,C)



MSA 25NM NDB(L) LCY

APP 132.700	THAMES DIRECTOR	AD ELEVATION	20
TWR 118.080, 129.455	CITY TOWER	THR ELEVATION	20
RAD 133.455, 128.025	THAMES DIRECTOR	OBSTACLE ELEVATION	
ATIS 136.355	CITY INFORMATION	1310 AMSL (1290) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



WARNINGS

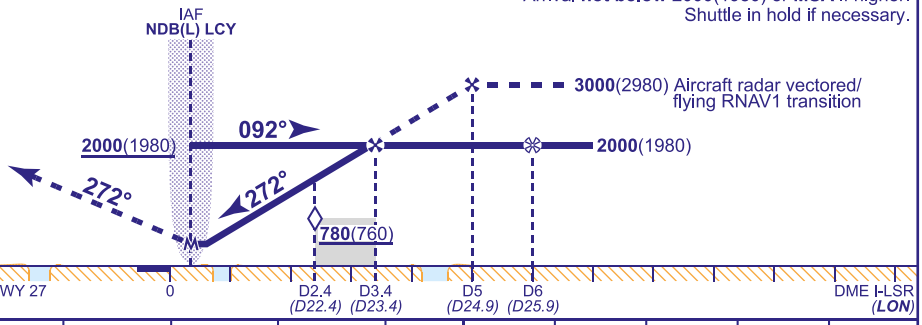
1. Non-standard final approach gradient at 5.5°/9.6%. Procedure only valid for aircraft certified to carry out approaches at 5.5°.
2. LOC 27 not to be used outside 30° left of C/L.

RECOMMENDED PROFILE Gradient 9.6%, 585FT/NM

DME I-LSR(LON)	3.4(23.4)	3.0(23.0)	2.4 **(SDF)** (22.4)	2.0(22.0)	1.0(21.0)
ALT(HGT)	**2000**(1980)	**1820**(1800)	**1460**(1440)	**1230**(1210)	**650**(630)

Arrival **not below 2000**(1980) or **MSA** if higher.
Shuttle in hold if necessary.

MAPt NDB(L) LCY
BASED ON VARIOUS CLIMB GRADIENTS (see table below). Climb straight ahead to **2000**. At **I-LSR DME** 5.6 (LON DME 14.3) turn right to return to **NDB(L) LCY** at **2000** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	CLIMB GRAD 2.5%	**570**(550)	**600**(580)	**630**(610)
	CLIMB GRAD 4.0%	**500**(480)	**520**(500)	**540**(520)
VM(C)OCA (OCH AAL)	NOT APPLICABLE			

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	1560	1365	1170	975	780

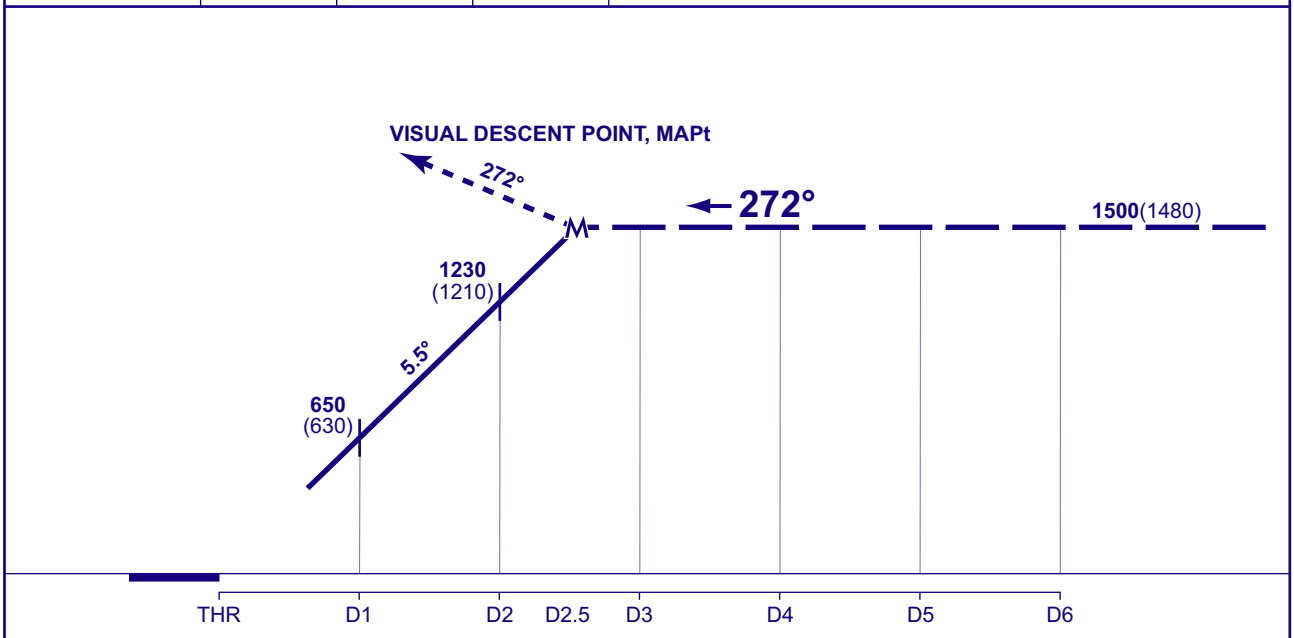
RADAR VECTORING/RNAV1 TRANSITION
Aircraft will normally be radar vectored/positioned to the LOC by Thames Director to be established on the LOC no later than I-LSR DME 6.

CHANGE (10/24): I-LSR DME ELEVATION.

AERO INFO DATE 23 JUL 24

VISUAL APPROACH PROFILE — LONDON CITY

EGLC	AD ELEV	THR ELEV	VAR	RWY 27
CAT A,B,C	**20FT**	**20FT**	**0.6°E**	



DME I-LSR zero ranged to THR RWY 27

NOTE: Do not descend below **1500**(1480) without required visual references, PAPI acquisition and PAPI guidance.

BEARINGS ARE MAGNETIC

CHANGE (7/23): THR ELEVATION.
AERO INFO DATE 17 APR 23

EGKK — LONDON GATWICK

EGKK AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGKK — LONDON GATWICK

EGKK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 510853N Long: 0001125W Mid point of Runway 08R/26L.
2	Direction and distance from city	2.7 NM N of Crawley. 24.7 NM S of London.
3	Elevation / Reference temperature / Mean Low Temperature	203 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	149 FT
5	Magnetic Variation / Annual Change	0.53°E (2022) / 0.19°E
6	AD Administration Address Telephone	GATWICK AIRPORT LIMITED. London (Gatwick) Airport, West Sussex RH6 0NP 0344-892 0322 (Gatwick Airport Ltd) 01293-601031 (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone calls to ATC operational areas may be recorded.

EGKK AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Refer to AD 2.20 item 1.

EGKK AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full. Nearest railway siding: Crawley New Yard, approx 1 NM.
2	Fuel and oil types	AVTUR JET A-1 Various, by arrangement with maintenance or service provider.
3	Fuelling facilities/capacity	Hydrant refuelling. Very limited bowser capacity. De-fuelling facilities subject to arrangement with fuel company.
4	De-icing facilities	By arrangement with handling agent.
5	Hangar space for visiting aircraft	Yes. By arrangement with local companies.
6	Repair facilities for visiting aircraft	Maintenance and repair by arrangement with local operators.
7	Remarks	Oxygen and related servicing by arrangement with local companies. Operators are to make prior arrangements with one of the handling agents for ground handling of all flights.

EGKK AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels linked to the north and south terminals.
2	Restaurants	Restaurants and bars.
3	Transportation	Trains, coaches, buses, taxis and hire cars. Nearest railway station, Gatwick Airport (South Terminal).
4	Medical facilities	Limited first aid treatment available.

5	Bank and Post Office	Bureau de Change.
6	Tourist Office	
7	Remarks	

EGKK AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A10
2	Rescue equipment	High access vehicle.
3	Capability for removal of disabled aircraft	Gatwick Airport Limited does not have the capability to recover disabled aircraft therefore, airlines must have a confirmed contract in place with an aircraft recovery/salvage contractor for aircraft recovery. Aircraft recovery arrangements must be submitted to Gatwick Airport Limited via airsidecompliance@gatwickairport.com. The Aerodrome Operations Manager is the initial point of contact during an incident: 07803-120115/aom@gatwickairport.com.
4	Remarks	

EGKK AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical and Chemical de-icing/anti-icing equipment including: Sweeper/Blowers, Sprayers of de-icing/anti-icing fluid, Tractors equipped with Ploughs and Brushes, Snow Cutters, Granular Spreaders.
2	Clearance priorities	Duty runway and associated taxiways, aircraft stands and apron areas. Other areas.
3	Remarks	Annual Snow Plan available from the Aerodrome Operator on request. De-icing/anti-icing of aircraft movement areas carried out as required using potassium acetate fluids (KAC). Under certain circumstances during adverse weather the Airport Disruption Cell may be established. See also AD 1.2.2.

EGKK AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	PARKING STANDS Surface: Concrete and Concrete Block Paving. PCN: Concrete 89/R/C/W/T and Concrete Block Paving 100/F/C/W/T
2	Taxiway width, surface and strength	Taxiway ECHO ROMEO: 23 M Surface: Asphalt PCN 50/F/C/W/T Taxiway OTHER (ASPHALT): 23 M Surface: Asphalt PCN 100/F/C/W/T Taxiway OTHER (CONCRETE): 23 M Surface: Concrete PCN 89/R/C/W/T Taxiway TANGO: 23 M Surface: Concrete and asphalt PCN 55/R/C/W/T Taxiway VICTOR: 23 M Surface: Concrete PCN 59/R/D/W/T Taxiway WHISKEY: 23 M Surface: Concrete PCN 59/R/D/W/T Taxiway YANKEE: 23 M Surface: Concrete and asphalt PCN 55/R/C/W/T
3	Altimeter checkpoint location and elevation	Apron 192 FT
4	VOR checkpoints	

5	INS checkpoints	See Aircraft Ground Movement/Parking/Docking Chart.
6	Remarks	

EGKK AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Pilots must not enter an aircraft stand unless the SEG (Stand Entry Guidance) is activated and the correct aircraft type is displayed, or a Gatwick Airport Limited marshaller has signalled clearance to proceed. If SEG is not activated on approach to the stand, flight crews must hold position on the taxiway and advise GMC of the non-activation of the SEG. Aircraft which have a very dark colour scheme may not be recognised by the SEG system. Aircrew must not attempt to self-park if the SEG is not activated. Note: ATC may request aircraft to 'report parked' – this is not an instruction to self-park. Aircrew are to note that all SEG systems are activated by their ground handling agent. The activation of SEG systems indicates a safety check of the stand has been made by the handling agent prior to the aircraft arrival. Azimuth and Stopping guidance is provided by 'Safedock' – Advanced Visual Docking Guidance System (A-VDGS) except on the following stands where a Marshaller is required: 33R, 130, 131, 132, 133, 134, 135, 136, 150L/R, 152L/R, 178L, 178R, 180R and 559. The SEG unit for Stand 557 is offset 3 M to the left of the centreline. All stands are designed for nose-in/push back operations except Stands 41E, 41, 41W, 43E, 43 and 43W. A variety of stand types and configurations are used: I. Standard apron/stands accommodate one aircraft and have a painted single yellow centreline. II. Multiple Aircraft Ramp System (MARS) stands consist of a primary centreline painted yellow and two secondary centrelines either side of the primary centreline painted in broken yellow and white. Secondary centrelines are designated with the primary stand number and the addition of 'L' (Left) or 'R' (Right). III. Multi-Choice Apron (MCA) use multiple primary and secondary centrelines, to allow the operation of a variety of different combinations of parked aircraft. Each centreline has its own designated stand number. Primary centrelines are painted yellow and secondary centrelines are painted in broken yellow and white. Individual illuminated stand number indicators are provided except on the following stands: 13L, 13R, 31L, 31R, 32L, 32R, 33L, 33R, 34L, 34R, 35L, 35R, 36L, 36R, 41, 41E, 41W, 43, 43E, 43W, 150L, 150R, 152L, 152R, 178L, 178R and 180R.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 08L/26R: Full ICAO runway designation, runway threshold, aiming point, touchdown zone and runway centreline markings. Entry/exit taxiways to/from the runway are marked by a continuous painted yellow line from the centreline of the runway. 08R/26L: Full ICAO runway designation, runway threshold, aiming point, touchdown zone and runway centreline markings. Entry/exit taxiways to/from the runway are marked by a continuous painted yellow line from the centreline of the runway. Runway light(s): 08L/26R: Threshold - HI green lights with wing bars. Edge - HI white lights. Stop end - HI red lights. Runway Threshold Identification Lights (RTILS) - 2 synchronised flashing white lights, one at each end of the threshold bar. 08R/26L: Threshold - HI green lights with wing bars. Edge - HI white lights. Centreline - HI colour coded white/red lights. TDZ - HI white lights. Stop end - HI red lights. Colour coded amber/green centreline lights indicate the runway entry/exit taxiways from/to the CAT III stop bars. 26L: Starter Extension - Blue edge lights. Taxiway marking aid(s): Yellow painted centreline. Yellow painted lead-in line to stand with arrow bearing the stand number. Broken yellow painted centreline (Stands 5, 10, 38, 41 and 43).

		Taxiway light(s): Green centreline lights except on Taxiway Yankee where blue edge lights are installed. Taxiway Unavailable Bars (TUBS) comprising of a line of red stop lights spaced at approximately 3 M centres across the full width of the mouth of each exit taxiway adjacent to Runway 08R/26L and running parallel to the runway centreline.
3	Stop bars and runway guard lights (if any)	Illuminated red stop bars are provided where appropriate. Stop bars and runway guard lights at runway holding positions are in operation H24.
4	Other runway protection measures	
5	Remarks	The apron is marked for nose-in parking only and operators should ensure that agents can supply push-back facilities. ILS Localizer Sensitive Area: Colour coded alternate amber and green centreline lights are installed on all entry/exit taxiways to/from Runway 08R/26L to denote the extent of the localizer sensitive area. WDIs (LGTD) - 510856.65N 0001014.64W; 510838.27N 0001222.34W.

EGKK AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKK3244) 26R/APPROACH	BUILDING AERIAL	510920.70N 0000944.60W	326 FT	130 FT	No	
(EGKK3254) 08L/TAKE-OFF	BUILDING	510917.97N 0000946.60W	276 FT	78 FT	No	Concorde House, South Terminal.
(EGKK8088) 08L/TAKE-OFF	TREE	510916.75N 0000934.04W	264 FT	68 FT	No	
(EGKK8091) 26L/APPROACH	TREE	510916.46N 0000932.69W	259 FT	64 FT	No	
(EGKK3210) 08L/TAKE-OFF	BUILDING CHIMNEY	510915.69N 0000944.73W	241 FT	47 FT	No	
(EGKK8077) 08L/TAKE-OFF	TREE	510915.53N 0000941.22W	247 FT	55 FT	No	
(EGKK8073) 26L/APPROACH	TREE	510915.16N 0000940.58W	248 FT	55 FT	No	
(EGKK3435) 08L/TAKE-OFF	PLANE TAIL	510914.37N 0000951.76W	231 FT	34 FT	No	Pier 1 Stands 2-5, South Terminal.
(EGKK8055) 08R/TAKE-OFF	TREE	510910.91N 0000941.44W	228 FT	40 FT	No	
(EGKK8164) 08R/TAKE-OFF	TREE	510909.94N 0000917.13W	258 FT	58 FT	No	
(EGKK8162) 08R/TAKE-OFF	TREE	510907.57N 0000926.77W	252 FT	56 FT	No	
(EGKK7992) 08R/TAKE-OFF	TREE	510906.93N 0000927.01W	254 FT	57 FT	No	
(EGKK8022) 08R/TAKE-OFF	TREE	510906.02N 0000941.69W	223 FT	30 FT	No	
(EGKK8000) 08R/TAKE-OFF	TREE	510905.07N 0000926.54W	257 FT	58 FT	No	
(EGKK1140) 08R/TAKE-OFF	FFM 26	510903.80N 0000946.09W	214 FT	15 FT	No	
(EGKK8001) 08R/TAKE-OFF	TREE	510903.76N 0000940.58W	227 FT	28 FT	No	
(EGKK8196) 26L/APPROACH	TREE	510902.19N 0000929.08W	264 FT	65 FT	No	
(EGKK7938) 26L/APPROACH	TREE	510901.73N 0000926.99W	267 FT	67 FT	No	
(EGKK8192) 26L/APPROACH	TREE	510901.64N 0000925.98W	271 FT	70 FT	No	
(EGKK7956) 26L/APPROACH	TREE	510901.21N 0000940.88W	245 FT	47 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKK7605) 26L/APPROACH	TREE	510900.69N 0000923.21W	277 FT	73 FT	No	
(EGKK8287) 26R/TAKE-OFF	BUSH	510850.37N 0001254.53W	236 FT	11 FT	No	
(EGKK8285) 08L/APPROACH	TREE	510849.92N 0001256.25W	236 FT	38 FT	No	
(EGKK3754) 26R/TAKE-OFF	TOP OF BANK	510849.33N 0001254.32W	227 FT		No	
(EGKK8281) 08L/APPROACH	TREE	510848.81N 0001256.23W	234 FT	36 FT	No	
(EGKK2207) 26R/TAKE-OFF	OBS LIGHT	510848.80N 0001254.27W	227 FT	4 FT	Yes Red	
(EGKK8274) 26R/TAKE-OFF	TREE	510847.47N 0001255.96W	234 FT	37 FT	No	
(EGKK2026) 26R/TAKE-OFF	FENCE	510846.37N 0001254.87W	206 FT	8 FT	No	
(EGKK7781) 26R/TAKE-OFF	TREE	510845.99N 0001316.27W	252 FT	43 FT	No	
(EGKK5955) 26R/TAKE-OFF	TREE	510844.78N 0001319.93W	246 FT	39 FT	No	
(EGKK7796) 08R/APPROACH	TREE	510842.85N 0001436.51W	387 FT	76 FT	No	
(EGKK8254) 26L/TAKE-OFF	TREE	510842.53N 0001255.75W	225 FT	29 FT	No	
(EGKK8252) 26L/TAKE-OFF	TREE	510842.19N 0001254.49W	215 FT	19 FT	No	
(EGKK5936) 26R/TAKE-OFF	TREE	510840.27N 0001348.84W	290 FT	71 FT	No	
(EGKK7814) 08R/APPROACH	TREE	510838.84N 0001454.32W	407 FT	49 FT	No	
(EGKK4802) 08R/APPROACH	TREE	510838.21N 0001513.49W	434 FT	95 FT	No	
(EGKK8221) 08R/APPROACH	TREE	510835.92N 0001250.10W	234 FT	33 FT	No	
(EGKK8215) 08R/APPROACH	TREE	510835.36N 0001249.13W	237 FT	36 FT	No	
(EGKK3601) 26L/TAKE-OFF	TREE	510834.02N 0001430.31W	364 FT	98 FT	No	
(EGKK7718) 26R/TAKE-OFF	TREE	510832.68N 0001435.42W	376 FT	95 FT	No	
(EGKK7728) 26L/TAKE-OFF	TREE	510832.41N 0001354.33W	310 FT	85 FT	No	
(EGKK7729) 08R/APPROACH	TREE	510831.76N 0001355.40W	313 FT	88 FT	No	
(EGKK7730) 26L/TAKE-OFF	TREE	510831.33N 0001355.02W	311 FT	87 FT	No	
(EGKK7441) 26L/TAKE-OFF	TREE	510831.29N 0001447.40W	385 FT	61 FT	No	
(EGKK7720) 08R/APPROACH	TREE	510831.18N 0001434.10W	373 FT	97 FT	No	
(EGKK7439) 08R/APPROACH	TREE	510831.03N 0001451.65W	392 FT	55 FT	No	
(EGKK7721) 26L/TAKE-OFF	TREE	510830.57N 0001430.87W	361 FT	97 FT	No	
(EGKK4793) 26L/TAKE-OFF	TREE	510830.44N 0001531.25W	440 FT	77 FT	No	
(EGKK7723) 26R/TAKE-OFF	TREE	510826.39N 0001455.34W	395 FT	67 FT	No	
(EGKK2406) 08R/APPROACH	TREE	510826.02N 0001328.04W	300 FT	89 FT	No	
(EGKK2496) 08R/APPROACH	TREE	510825.78N 0001329.57W	298 FT	87 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKK4726) 26R/TAKE-OFF	TREE	510825.48N 0001522.72W	432 FT	59 FT	No	
(EGKK7437) 26L/TAKE-OFF	TREE	510824.23N 0001530.18W	441 FT	62 FT	No	
(EGKK4868) 26L/TAKE-OFF	TREE	510821.46N 0001539.18W	447 FT	65 FT	No	
(EGKK4631) 26L/TAKE-OFF	TREE	510819.46N 0001500.94W	401 FT	77 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKK5650)	TREE	511037.51N 0001339.22W	403 FT	97 FT	No	
(EGKK5116)	TREE	511035.90N 0002219.72W	1027 FT	81 FT	No	
(EGKK5098)	TOWER FLAGPOLE	511034.88N 0002216.72W	1027 FT	63 FT	No	
(EGKK5377)	TREE	511001.72N 0001424.27W	449 FT	106 FT	No	
(EGKK4554)	MAST	510759.49N 0001410.18W	419 FT	110 FT	No	
(EGKK6231)	BLDG MAST	510659.03N 0001055.13W	389 FT	154 FT	Yes Red	
(EGKK4243)	MAST	510630.42N 0001246.13W	408 FT	127 FT	No	

EGKK AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 30 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text.TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	LONDON GATWICK
10	Additional information (limitation of service, etc.)	26R TDZ IRVR is 470 M downwind of the threshold.

EGKK AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
08L	077.63°	2561 x 45 M	RWY surface: Asphalt, Grooved PCN 100/F/C/W/T	510851.04N 0001229.17W 148.6 FT	THR 194.8 FT	08L: 0.04% Down 26R: 0.04% Up

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
26R	257.65°	2561 x 45 M	RWY surface: Asphalt, Grooved PCN 100/F/C/W/T	510903.69N 0001057.40W 148.5 FT	THR 194.8 FT	08L: 0.04% Down 26R: 0.04% Up
08R	077.63°	3317 x 45 M	RWY surface: Asphalt, Grooved PCN 100/F/C/W/T SWY surface: Asphalt, Grooved PCN 100/F/C/W/T	510845.12N 0001224.52W 148.6 FT	THR 196.2 FT TDZ 196.2 FT	08R: 0.06% Down 26L: 0.06% Up
26L	257.65°	3317 x 45 M	RWY surface: Asphalt, Grooved PCN 100/F/C/W/T SWY surface: Asphalt, Grooved PCN 100/F/C/W/T	510902.42N 0001019.00W 148.5 FT	THR 195.9 FT TDZ 196.0 FT	08R: 0.06% Down 26L: 0.06% Up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	479 x 150 M	2681 x 150 M	90 x 90 M 240 x 90 M			RWY 08L Runway 08L is a non-instrument runway. Landing threshold displaced by 321 M. Paved shoulders extend 7.5 M beyond each side of Runway 08L/26R. A maximum weight limit of 562,000 KG applies to landings and take-offs on Runways 08R/26L and 08L/26R.
	142 x 150 M	2681 x 150 M	90 x 90 M 240 x 90 M			RWY 26R Runway 26R is a non-instrument runway. Landing threshold displaced by 415 M. Paved shoulders extend 7.5 M beyond each side of Runway 08L/26R. A maximum weight limit of 562,000 KG applies to landings and take-offs on Runways 08R/26L and 08L/26R.
74 x 45 M	152 x 150 M	3437 x 280 M	90 x 90 M 240 x 90 M			RWY 08R Runway 08R is an instrument runway. Landing threshold displaced 395 M. Paved shoulders extend 15 M beyond each side of Runway 08R/26L. A maximum weight limit of 562,000 KG applies to landings and take-offs on Runways 08R/26L and 08L/26R.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
62 x 45 M	144 x 150 M	3437 x 280 M	90 x 90 M 240 x 90 M			RWY 26L Runway 26L is an instrument runway. Landing threshold displaced by 425 M. 150 M starter extension. Paved shoulders extend 15 M beyond each side of Runway 08R/26L. A maximum weight limit of 562,000 KG applies to landings and take-offs on Runways 08R/26L and 08L/26R.

EGKK AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08R	3159 M	3311 M	3233 M	2765 M	
26L	3255 M	3399 M	3317 M	2830 M	
08R	2937 M	3088 M	3011 M		Take-off from intersection with Hold Hotel 1.
08R	2772 M	2924 M	2846 M		Take-off from intersection with Hold Golf 1.
26L	3146 M	3290 M	3208 M		Take-off from intersection with Hold Alpha 1.
26L	2891 M	3035 M	2953 M		Take-off from intersection with Hold Bravo 1.
26L	2460 M	2604 M	2521 M		Take-off from intersection with Hold Charlie 1.
08L	2561 M	3040 M	2561 M	2241 M	
26R	2515 M	2657 M	2515 M	2146 M	

EGKK AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08L	Centreline with one crossbar. 420 M Light intensity high	Green Light intensity high With green wingbars. Runway Threshold Identification Lights (RTILS) - 2 synchronised flashing white lights, one at each end of the THR bar. Visible in the approach sector only.	PAPI /3° 65 FT 405 M			HI flush bi-directional 60 M spacing, with LI omni-directional component	Red		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
26R	Centreline with one crossbar. 420 M Light intensity high	Green Light intensity high With green wingbars. Runway Threshold Identification Lights (RTILS) - 2 synchronised flashing white lights, one at each end of the THR bar. Visible in the approach sector only.	PAPI /3° 68 FT 425 M			HI flush bi-directional 60 M spacing, with LI omni-directional component	Red		
08R	Coded centreline with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Green Light intensity high With green wingbars	PAPI Right/3° 68 FT 428 M	Light intensity high 893 M	Colour coded 15 M spacing Light intensity high	HI flush bi-directional 60 M spacing, first 393 M from RWY end showing red to displaced landing THR	Red	74 M beyond RWY end lights Red	Approach: Rapid Exit Taxiway Indicator Lights (RETILs) installed on the first and second Rapid Exit Taxiways (RETs) for Runway 08R/26L. They provide a 3-2-1 countdown pattern of amber lights to enable pilots to locate the nearest RET and apply braking action for a more efficient roll-out and runway exit speed.
26L	Coded centreline with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Green Light intensity high With green wingbars	PAPI /3° 69 FT 438 M	Light intensity high 893 M	Colour coded 15 M spacing Light intensity high	HI flush bi-directional 60 M spacing, first 267 M from RWY end showing red to displaced landing THR	Red	62 M beyond RWY end lights Red	Approach: Rapid Exit Taxiway Indicator Lights (RETILs) installed on the first and second Rapid Exit Taxiways (RETs) for Runway 08R/26L. They provide a 3-2-1 countdown pattern of amber lights to enable pilots to locate the nearest RET and apply braking action for a more efficient roll-out and runway exit speed.

EGKK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 510843.36N 0001206.75W (LGTD) - 510856.23N 0001034.04W (LGTD).
3	TWY edge and centre line lighting	CL: Green centre-line lighting with selective switching on all taxiway routes except Taxiway Yankee. EDGE: Taxiway Yankee has blue edge lights.
4	Secondary power supply/switch-over time	Yes - CAT I/II/III. 1 second.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGKK AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	See AD 2.20, Section 5.

EGKK AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON GATWICK CTR 511258N 0001129W - 511200N 0000341E thence clockwise by the arc of a circle radius 10 NM centred on 510853N 0001125W to 510550N 0000342E - 510240N 0001923W thence clockwise by the arc of a circle radius 8 NM centred on 510853N 0001125W to 511118N 0002332W - 511258N 0001129W	Upper limit: 2500 FT ALT Lower limit: SFC	D	GATWICK DIRECTOR English	6000 FT		See AD 2.EGKK-4-1, AD 2.EGKK-4-2 and EGKR AD 2.22, Section (3) for details of Redhill Local Flying Area. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
LONDON GATWICK ATZ A circle, 2.5 NM radius, centred at 510853N 0001125W on longest notified runway (08R/26L)	Upper limit: 2000 FT AGL Lower limit: SFC	D	GATWICK DIRECTOR English	6000 FT		See AD 2.EGKK-4-1, AD 2.EGKK-4-2 and EGKR AD 2.22, Section (3) for details of Redhill Local Flying Area.

EGKK AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	GATWICK DIRECTOR	118.950 When instructed by ATC. DOC 25 NM/ 10,000 FT.			H24	ATZ hours coincident with Approach hours.
		121.500 Emergency frequency O/R.			H24	
		126.825 DOC 45 NM/ 24,500 FT.			H24	
		129.025 When instructed by ATC. DOC 45 NM/ 24,500 FT.			H24	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	GATWICK DELIVERY	121.955 Ground Movement Planning. Departing aircraft are to make initial call to 'Gatwick Delivery' on this frequency during hours of operation. At other times call 'Gatwick Ground'. DOC 5 NM/GND.			0630-2100 (0500-2100) or as directed.	
	GATWICK GROUND	121.805 Ground Movement Control. DOC 5 NM/GND.			0530-2300 (0400-2300)	
	GATWICK TOWER	121.500 Emergency frequency O/R.			H24	
		124.230 DOC 25 NM/ 10,000 FT.			H24	
		134.230 When instructed by ATC. DOC 40 NM/ 15,000 FT.			H24	
ATIS	GATWICK INFORMATION	136.525 DOC 60 NM/ 20,000 FT.			H24	
OTHER	GATWICK FIRE	121.600 Non-ATS Frequency			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGKK AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 1.34°E (2027)	IGG	110.900 MHz	HO	510906.95N 0000946.07W		(RWY 08R)
ILS/GP	IGG	330.800 MHz	HO	510842.61N 0001207.56W		3° ILS Ref Datum Hgt 51 FT.
ILS/LOC III 1.33°E (2027)	IWW	110.900 MHz	HO	510841.14N 0001253.32W		(RWY 26L)
ILS/GP	IWW	330.800 MHz	HO	510855.49N 0001032.98W		3° ILS Ref Datum Hgt 51 FT.
VOR/DME 1.24°E (2027) 0.6°E (2022)	OCK	100X 115.300 MHz	H24	511818.17N 0002649.86W	200 FT	RNAV Substitution Only. VOR DOC: 25 NM/25,000 FT and 35 NM/25,000 FT in the sector 114º to 289º. DME DOC: 70 NM/25,000 FT (90 NM/ 25,000 FT in Sector R059°-089°).

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 1.22°E (2027) 0.8°E (2023)	LON	83X 113.600 MHz	H24	512914.09N 0002759.54W	113 FT	VOR DOC: 20 NM/50,000 FT (10 NM/50,000 FT in Sector R094-164, 35 NM/50,000 FT in Sector R064-094 and 40 NM/50,000 FT in Sector R254-289). There may be VOR bearing fluctuations in Sector R334-170. DME DOC: 40 NM/50,000 FT (100 NM/50,000 FT in Sector R179-254 and 80 NM/50,000 FT in Sector R254-314). DME unlocks may occur in the Sector R179-249 at ranges greater than 50 NM.
VOR/DME 1.82°E (2027) 1.4°E (2025)	DVR	96Y 114.950 MHz	H24	510945.44N 0012132.71E	325 FT	VOR DOC: 60 NM/50,000 FT. DME DOC: 80 NM/50,000 FT (200 NM/50,000 FT in Sector R014°-074°).
VOR/DME 0.98°E (2027) 0.8°E (2024)	SAM	80Y 113.350 MHz	H24 Hours of operation for aerodrome purposes: HO	505718.90N 0012042.20W	64 FT	VOR DOC: 20 NM/50,000 FT (35 NM/50,000 FT in Sector R249-084 and 40 NM/50,000 FT in Sector R359-034). DME DOC: 100 NM/50,000 FT (150 NM/50,000 FT in Sector R224-314). On R202 VOR flag alarms and DME unlocks may be experienced at ranges exceeding 30 NM below 8000 FT.
VOR/DME 1.17°E (2027) 0.8°E (2023)	GWC	94Y 114.750 MHz	H24	505118.79N 0004524.25W	122 FT	VOR DOC: 20 NM/50,000 FT and 55 NM/50,000 FT in the sector 304º to 134º. DME DOC: 80 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sector R299°-044°.
DME	IGG	46X 110.900 MHz	HO	510849.96N 0001120.43W	212 FT	(RWY 08R) On AD. DME freq paired with ILS I-GG and I-WW. Zero range is indicated at THR of Runway 08R and 26L.
DME	IWW	46X 110.900 MHz	HO	510849.96N 0001120.43W	212 FT	(RWY 26L) On AD. DME freq paired with ILS I-GG and I-WW. Zero range is indicated at THR of Runway 08R and 26L.
VOR/DME 1.39°E (2027) 1.1°E (2024)	BIG	98X 115.100 MHz	H24	511951.15N 0000205.32E	589 FT	VOR DOC: 20 NM/50,000 FT (30 NM/50,000 FT in Sector R259-314 and 45 NM/50,000 FT in Sector R314-344). DME DOC: 60 NM/50,000 FT (125 NM/50,000 FT in Sector R284-044 and 100 NM/50,000 FT in Sector R044-134). Due to terrain, coverage at low level is reduced in Sector R114-219. In addition DME unlocks may occur in Sector R004-039 at ranges up to 25 NM.
VOR/DME 1.41°E (2027) 1.1°E (2025)	LAM	103X 115.600 MHz	H24	513845.69N 0000906.13E	241 FT	VOR DOC: 30 NM/50,000 FT (40 NM/50,000 FT in Sectors R064-099, R139-174 and R249-289). DME DOC: 40 NM/50,000 FT (110 NM/50,000 FT in Sector R314-134).
VOR/DME 1.58°E (2027) 1.2°E (2023)	DET	120X 117.300 MHz	H24	511814.41N 0003550.19E	645 FT	VOR DOC: 20 NM/50,000 FT (35 NM/50,000 FT in Sector R289-029 and 45 NM/50,000 FT in Sector R249-289). DME DOC: 60 NM/50,000 FT.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 1.20°E (2027) 1.0°E (2024)	MID	87X 114.000 MHz	H24	510314.23N 0003730.01W	233 FT	VOR DOC: 20 NM/50,000 FT (35 NM/ 50,000 FT in Sector R354-164). DME DOC: 60 NM/50,000 FT (100 NM/ 50,000 FT in Sector R239-359).
VOR/DME 1.44°E (2027) 1.4°E (2025)	MAY	126X 117.900 MHz	H24	510101.86N 0000658.04E	384 FT	VOR DOC: 20 NM/25,000 FT (30 NM/ 25,000 FT in Sector R259-329 and 35 NM/25,000 FT in the Sector R059-094). DME DOC: 40 NM/25,000 FT (60 NM/ 25,000 FT in Sector R104-164). Due to terrain, coverage at low level is reduced in Sector R314-039.

EGKK AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Gatwick CTR.
b) Departing aircraft are to call Gatwick Delivery for clearance 15 minutes before start up to allow for departure data to be processed. If Delivery is closed, the ATIS will state which frequency to contact for clearance and start.
c) Aircraft requiring to depart from Hold Mike 1 must advise Gatwick Delivery before start up.
d) Surface wind data is available for both ends of the duty runway. Normally, only the Touchdown surface wind will be passed. Stop end surface wind information is available on request.
e) All flights operating at London Gatwick Airport are subject to prior approval of the Chief Executive Officer, Gatwick Airport Ltd (GAL), and require a slot allocated by Airport Coordination Ltd (ACL).
f) Flights for aerobatic, recreational, commemorative, charity and record breaking purposes will not be permitted to use the airport, except with the prior approval of the Chief Executive Officer.
g) Planned Diversion Procedure – Airline and other operators are advised that before selecting Gatwick as an alternate, prior arrangements for ground handling should have been agreed with one of the nominated handling agents.
h) The use of this airport for training purposes is prohibited. The deliberate simulation of engine failure is not permitted whilst on approach to or departure from the airport.
i) This Airport may be used by Executive and Private Aircraft (General Aviation) subject to the following conditions:

i. Requests for ad-hoc slot allocations should be made to ACL during working hours 0830-1700 (0730-1600) Monday to Friday (excluding public holidays) by e-mail: lonacxh@acl-uk.org; or Tel: 0208-564 0605, or at all other times to GAL Flow Planning Tel: 01293-503089/221 or e-mail: flow.planners@gatwickairport.com (or to their nominated handling agent who will obtain prior permission from Airport Coordination Ltd or GAL Flow Planning). Online Coordination System (OCS) account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com/.

   Prior permission for General Aviation operators should be requested not more than 10 days and preferably not less than 24 hours before intended movement. The following details must be notified for each flight:

   1. Aircraft type, registration and operator;
   2. Point of origin and destination;
   3. Date/time of ETA and ETD Gatwick;
   4. Nominated handling agent. (Mandatory for both domestic and international flights).

      Due to increasing demand for runway slots, particularly at peak times of the day, General Aviation operators are advised that their requested slot time may not be available. In this case, the available runway slot times nearest to those requested will be offered by Airport Co-ordination Ltd. It is emphasised that runway slots are required for both arrivals at and departures from Gatwick. No runway slot is valid unless identified by a reference number in the form of a letter and five digits. The filing of a flight plan does not confer permission to use Gatwick Airport. Runway slots are required in addition to ATC slots. ATC clearance to approach/land or taxi/take-off does not imply the existence of a valid runway slot.

ii. General Aviation Terminal opening hours are: 0500-2300 (0400-2200). Hours by appointment only: 2300-0500 (2200-0400).
iii. All international passengers arriving on private and executive aircraft requiring HM Customs clearance, must proceed with their handling agent to the South Terminal.
iv. All commanders of private and executive aircraft arriving or departing on an international flight must obtain HM Customs clearance via their handling agent from the Customs Report Office in Atlantic House.
v. General Aviation Terminal – Meteorological Information.
   There are no comprehensive meteorological facilities at the General Aviation Terminal. Pilots requiring meteorological information must either self-brief or arrange for their Handling Agent to collect the information on their behalf.

j) Fixed-wing and rotary aircraft using London Gatwick Airport do so in accordance with the Gatwick Conditions of Use document. A copy of the document is available on the London Gatwick Airport website: www.gatwickairport.com/company/about-us/regulation.html

k) Nothing in the paragraphs above shall, however, prevent an aircraft that has declared an emergency from landing.

l) Fixed Electrical Ground Power must be used when available. Use of aircraft Auxiliary Power Units (APUs) and Ground Power Units (GPUs) are strictly controlled to minimise environmental impact. APUs must be shut down after arrival and only restarted before departure according to the timescales described in detail in published Gatwick Airport Directives and Notices, a summary of which is detailed below. Regular audits take place to ensure compliance with the regulations. Dispensation to use GPUs must be requested from GAL Airfield Operations Tel: +44(0)1293 503090.

	APU may be started before Scheduled Off Blocks Time (SOBT)	**APU must be shutdown after arrival on stand within**
Narrow Body Aircraft (Code A, B & C)	No more than 15 minutes prior to SOBT. **Or** not more than 30 minutes prior to SOBT when the FEGP has not been upgraded to provide enough power to support the FMS.	10 minutes
Wide Body Aircraft (Code D, E & F)	No more than 50 minutes prior to SOBT **Or** not more than 90 mins prior to SOBT when the FEGP has not been upgraded to provide enough power to support the FMS.	10 minutes

† Exceptions to these restrictions are:

Note 1: *When an aircraft is scheduled to be towed off to another location the APU may be restarted for safety reasons not in excess of 10 minutes prior to the planned movement.*

Note 2: *When the planned towing movement as specified under 1 is delayed due ATC, then the APU may be left running.*

Note 3: *When the external air temperature is below 5°C or above 25°C as stated on the ATIS, then the APU restriction for Narrow body aircraft is extended to 40 minutes before SOBT.*

Note 4: *When the external air temperature is below 5°C or above 25°C as stated on the ATIS, then the APU restriction for Wide body aircraft is extended to 75 minutes before SOBT.*

Note 5: *At certain times of the year during periods of extreme high temperatures, further exemptions may be requested from GAL Airfield Operations in accordance with Gatwick Airport Directives and Notices.*

2 GROUND MOVEMENT

a) General

i. Ground Movement Control (GMC) is in continuous operation and all surface movement of aircraft, vehicles and personnel on the Manoeuvring Area is subject to ATC authority.

ii. Directions issued by ATC should be followed specifically. RTF transmissions must be brief, concise and kept to the minimum number.

iii. Within the Manoeuvring Area, pilots will be cleared to proceed under general direction from GMC and they are reminded of the extreme importance of maintaining a careful lookout at all times. ATC instructions will normally specify the taxi route to be followed. Three Hot Spots (HS) where heightened attention is necessary are included on charts AD EGKK-2.

1. HS1 Foxtrot Romeo RET: When exiting Runway 26L at FR aircraft do not have to call for clearance to cross Runway 26R onto Taxiway Juliet.
2. HS2 Delta RET: Possible routing error - traffic vacating Runway 08R at Delta be aware of potential confusion between Taxiways Romeo and Quebec.
3. HS3 Taxiway Juliet: Potential Routing error - pilots taxiing eastbound on Taxiway Juliet be aware the taxiway deviates to the north at this point.

iv. Departing aircraft on first contact with Gatwick ATC must state aircraft type, stand number and the code letter of the latest ATIS received and maintain a listening watch on the appropriate frequency.

v. **It is the aircraft Commander's responsibility not to accept an ATC clearance into an area not approved for his type of aircraft.**

vi. Pilots of departing aircraft are reminded to contact Gatwick Delivery for clearance 15 minutes before start up to allow for departure data to be processed.

vii. Pre-departure clearance by datalink is available for suitably equipped aircraft. Pilots requesting pre-departure clearance by datalink must when entering the stand number ensure that:

1. Stand designators are entered as appropriate (eg. 141L, 562, 34R);
2. Ensure the stand number is entered with at least 2 figures (eg. 05).

viii. Taxiway Mike is available as an entry point to Runway 26L. Taxiway Mike can not be used as an exit point from Runway 08R.

ix. Flight crew are reminded of the extreme importance of maintaining a careful lookout at all times and are at all times responsible for wing tip clearance. The taxiway lighting system is an aid to pilots when operating on the manoeuvring area during darkness or in poor visibility. Notwithstanding the taxiway lighting system, pilots continue to remain responsible for wing tip clearance.

x. The taxiway system is designed for Cockpit Over Centreline (COCL) techniques however Judgemental Oversteer may be used at crews' discretion.

b) Gatwick Airport is equipped with an advanced surface movement radar utilising Mode-S.

i. Aircraft operators intending to use London Gatwick Airport should ensure that Mode-S transponders are able to operate when the aircraft is on the ground.
ii. Flight crew should select XPNDR or the equivalent according to specific installation, AUTO if available (OFF or STDBY should not be used), and the assigned Mode-A code.

1. From the request for push back or taxi, whichever is earlier;
2. After landing, continuously until the aircraft is fully parked on stand.

iii. After parking the Mode-A code 2000 must be set before selecting OFF or STDBY.
iv. Flight crew of aircraft equipped with Mode-S having an aircraft identification feature should also set the aircraft identification. This setting is the aircraft identification specified in Item 7 of the ICAO ATC Flight Plan. The aircraft identification should be entered from the request for pushback or taxi, whichever is earlier, through the FMS or the Transponder Control Panel.

c) Aprons

i. Before the Aircraft Commander calls for pushback, they must confirm the ground crew are ready to push via the headset operator to ensure the tug driver is in the tug and listening for communications between ATC and the flight deck. **If the Aircraft Commander is not in two-way headset communication with the tug crew, they must inform the Ground Movement Planner (GMP) when reporting ready for start.** The tug driver must listen to the exchange between the aircraft crew and ATC so that the tug crew have a full understanding of the detail of the ATC approval. If the tug driver has not heard the pushback instruction they must not push the aircraft. Request and clearance will be issued between the flight crew and ATC only. On receipt of pushback instruction, the flight crew shall report the instruction verbatim to the ground crew. Any clarification required from the tug driver shall, in the first instance, be directed to the flight crew. If further clarity is required then the tug driver should contact ATC.
ii. The Manoeuvring Area is equipped with the following forms of taxiway guidance:

1. Yellow painted taxiway centre-lines;
2. Yellow painted holding position lines at the approach to runways;
3. Green taxiway centre-line lights and red stop bars controlled from the Tower;
4. An illuminated red stop bar means **STOP.** Aircraft must not proceed until the stop bar is extinguished or ATC permission is received;
5. Runway Guard Lights are installed at all runway/taxiway intersections, comprising alternating flashing amber standard low level dual traffic lights, operating H24;
6. Taxiway Unavailable Bars (TUBS) comprising of a line of red stop lights spaced at approximately 3 M centres across the full width of the mouth of each exit taxiway adjacent to Runway 08R/26L and running parallel to the runway centreline. TUBS are installed at Alpha, Bravo, Bravo Romeo, Charlie, Charlie Romeo, Delta, Echo Romeo, Foxtrot Romeo, Golf, Golf Romeo, Hotel and Juliet, to prevent incursions onto taxiways which are unavailable due to operational issues such as Work in Progress.

iii. Pilots are to use the minimum power necessary when manoeuvring on the taxiway system. This is of particular importance when manoeuvring in apron cul-de-sacs, where jet blast can affect adjacent stands.
iv. Cross Bleed Starts - if informed by an aircraft that a cross bleed start is required, ATC must consider the blast effect and utilise a non-standard push back if required. Aircraft must be aligned with the taxiway centreline before commencing the cross bleed start.
v. Pilots pushing from Stand 12 are reminded not to start engines until the aircraft has been pulled forward abeam Stand 12, due to jet blast on the neighbouring airside road.
vi. After pushback from Stand 38 aircraft will be stopped off the taxiway centreline prior to being disconnected. When approved to taxi pilots should follow the broken yellow centreline back onto Taxiway Lima.
vii. In any circumstances where the flight deck need to exceed ground idle or breakaway power, GAL Airfield Operations will require prior notification and authorisation via ATC.
viii. In the event of a mis-routeing, or the need to execute an unorthodox manoeuvre the flight deck must request revised instructions from ATC. This may require the attendance of a GAL Airfield Operations Leader Vehicle or assistance of an aircraft tug for the manoeuvre to be completed safely.
ix. Some operators may choose to taxi without all aircraft engines running. This type of operation has the potential to increase blast, especially when starting to move or negotiating tight turns. Operators must have assessed the jet blast risks before carrying out this reduced engine taxi procedure.
x. Engines must not be run above ground idle during push-back.
xi. Aircraft are not authorised to power back off stands under their own power.

d) Ground movement of large aircraft - Code D (Wingspan between 36 M < 52 M)

i. The following routes are not available for Code D aircraft:

1. Taxiway Alpha November East of Taxiway Mike;
2. Taxiway Juliet East of Taxiway November;
3. Taxiway Victor East of Taxiway Whiskey;
4. Taxiway Whiskey;
5. Taxiway Zulu between Taxiway November and Taxiway Whiskey.

e) Ground movement of large aircraft - Code E (Wingspan between 52 M < 65 M)

i. The following routes are not available for Code E aircraft:

1. Taxiway Alpha November East of Taxiway Mike;
2. Taxiway Juliet East of Taxiway November;
3. Taxiway Victor East of Taxiway Whiskey;
4. Taxiway Whiskey;
5. Taxiway Zulu between Taxiway November and Taxiway Whiskey;

ii. The following restrictions apply:

1. Taxiway Lima between Taxiways Quebec and Sierra has a substandard but positive physical obstacle clearance (minimum of 42.5 M) due to the proximity of the adjacent road;
2. Taxiway Lima East of Stand 36 is not available for Code E aircraft with a wingspan in excess of 61 M due to the proximity of the adjacent blast screen;
3. Taxiway Yankee from Whiskey 1 Hold to Yankee 3 Hold is not available for Code E aircraft with a wingspan in excess of 61 M due to the proximity of the adjacent road.

f) Ground movement of large aircraft - Code F (Wingspan between 65 M < 80 M)

i. Taxiway routes available to Code F aircraft are shown on Aerodrome Chart AD 2-EGKK-2-5, marked in yellow. There is a substandard but positive physical obstacle clearance (minimum of 47.5 M) on Taxiway Juliet between Taxiways Sierra and Tango.

g) Remote De-icing – Aircraft Engines Running

i. There are two identified locations (de-icer pads) to enable remote de-icing of aircraft with engines running. They are managed and coordinated by the GAL de-icing service provider for airlines which have had Risk Assessments and Method Statements signed off by GAL. There is an agreed process in place for the operation of these pads.
ii. The two locations are uniquely identified as DA 43 and DA Sierra. Both will have resource to coordinate the operations and communicate with pilots and de-ice rig operatives. An electronic signage board will be provided for visual communications.

1. **DA 43**
   Located on Stand 43 and can accommodate Code C aircraft only. The holding point for this pad is Stand 41. Aircraft will taxi to this location as directed by ATC.
2. **DA Sierra**
   Located on Taxiway Sierra abeam Stands 170/171. Aircraft will be directed by ATC to hold on Taxiway Lima north of Taxiway Sierra prior to entering DA Sierra.

h) Remote Holding Procedures

i. Remote holding capacity is available to maintain the flow of aircraft by releasing occupied stands and pushback crews, this proactive approach supports optimal stand availability, reduces taxiway congestion and helps maintain overall airfield efficiency. ATC will endeavour to offer remote holding to applicable flights subject to availability. Flight crews must be ready for pushback and to promptly accept remote holding when requested. Flight crews must not request remote holding; the instruction will come from ATC and must be followed unless in exceptional circumstances. Applicable flights are usually those with CTOT or other delays in excess of 35 minutes however, ATC has the discretion to instruct other flights where there is an operational reason for doing so. Default positioning to remote hold is pushback and taxi, unless otherwise directed by ATC.
ii. Remote holding capacity is available via:

1. Stands 41 and 43.

a) Stands 41 and 43 Remote Holding/Drive-Through. Aircraft should stop at the positions indicated by the painted yellow stop arrows and await instructions from ATC. Access is available via Taxiways Kilo or Lima.
b) Stands 41E, 41W, 43E and 43W Remote Holding. From Taxiway Lima aircraft should enter the 41 or 43 centreline and then follow the east or west centreline. From Taxiway Kilo aircraft should access 41E, 41W, 43E and 43W via the specific lead-in arrow. Eastern centrelines are painted orange and western centrelines are painted blue. Aircraft stop positions are indicated by painted orange or blue stop arrows as appropriate. When approaching Stand 41E from the east along Taxiway Kilo, flight crews are to use judgemental oversteer when entering the stand to ensure suitable main undercarriage clearance of the adjacent grass area.
c) Stands 41E, 41, 41W, 43E, 43 and 43W Aircraft Parking Stands. When operating in aircraft parking stand mode, barriers will be deployed between Stands 41 and 43 and Taxiway Lima to safeguard the stands. Aircraft may only enter Stands 41E, 41, 41W, 43E, 43 and 43W via Taxiway Kilo and must be parked by a GAL Marshaller. In exceptional circumstances should an aircraft be required to taxi off Stand 41E, 41, 41W, 43E, 43 or 43W under its own power via Taxiway Lima, GAL Airfield Operations will require prior notification and authorisation via ATC.
d) Stand 42 is only available as a nose-in aircraft parking stand. Aircraft can self-park utilising the SEG system. Access is via Taxiway Kilo.

2. Straight pushback onto Stands 64L, 64R, 65, 66L, 66R, 132 and 133.
3. GAL aircraft marshaller guidance onto Stands 141R, 142R, 143L, 144L, 171L, 173, 175L, 230L, 231L, 232L and 233L. Pilots must not enter these stands until a marshaller is present. Access to Stand 173 is via the 173L lead-in arrow. Pilots should exit these stands by turning directly towards the taxiway centreline.
4. Tactical holding may be utilised on taxiways at the discretion of ATC.

i) Airport-Collaborative Decision Making (A-CDM)

i. London Gatwick Airport is an A-CDM–coordinated Airport, meaning it has adopted the permanent and fully automatic data exchange Airport-CDM concept by providing a set of DPI messages (Departure Planning Information – E-DPI, T-DPI-t, T-DPI-s, A-DPI and C-DPI) to the Eurocontrol Network Manager Operations Centre (NMOC). This data transfer allows more accurate and efficient CTOT allocation. The basic NMOC procedures continue to apply but NMOC will take the local TTOT into consideration for CTOT calculation and will try to adjust it accordingly.

ii. Definitions of Commonly Used A-CDM Terms:

1. **Target Off-Blocks Time (TOBT) -** The time an aircraft is expected to be ready to leave the stand (agreed by Ground Handling Agent and flight deck) in the case of normal operations, or ready for on stand de-icing to commence (where appropriate), in the case of winter operations. This must be updated to an accuracy of +/- 5 minutes by GHA. Accurate and stable TOBTs enhance operations on the ground as they provide all airport partners with a clear picture of the intentions of aircraft on the ground.
2. **Actual Start Request Time (ASRT)** - The time an aircraft actually calls ready to Tower. Start requests will only be accepted if an aircraft is A-CDM compliant, meaning TOBT has not expired (which happens at TOBT + 5 minutes) and there are no other data issues with the flight plan.
3. **Target Start Approval Time (TSAT)** - The time that ATC expect to give start approval, which is based on TOBT, CTOT, other traffic using the runway, any constraints to runway/airspace capacity, and taxi time. Use of TSAT should reduce queuing times at the runway hold, while maintaining a high runway utilisation.
4. **Target Take-Off Time (TTOT)** - The time that an aircraft is expected to take off. TTOT is a target – the requirement for an aircraft to be airborne within a time window only applies to flights with a CTOT. Most aircraft will take off within +/- 5 minutes of TTOT, but this time is not accurate enough to be relied upon for starting the second engine after single engine taxi.
5. **Calculated Take-Off Time (CTOT)** - Assigned by NMOC when flow restrictions are in place. The standard slot tolerance window requires aircraft to depart within -5 to +10 minutes of its CTOT (as existing requirement).

iii. Flight Deck shall comply with the following A-CDM procedure:

1. Ensure the flight is ready to push at TOBT +/- 5 minutes: ground activities completed, doors closed, push-back tug connected, cockpit ready for start-up.
2. Maintain regular communication with the TCO/GHA who are responsible for updating the TOBT.
3. If a delay to TOBT +5 or a departure earlier than TOBT -5, is identified notify the GHA immediately and ensure TOBT is updated before contacting ATC.

iv. When ready to push back (which should be at TOBT +/- 5 mins):

1. Pilots must report to Gatwick Delivery: "[Call-sign] [stand] [QNH] ready".
2. Pilots will either receive Start Approval, Gatwick Delivery will respond: "[Call-sign] roger", or “[Call-sign] You are non-ACDM compliant, contact your handling agent”. If this happens, pilots must not contact ATC again until the handling agent confirms compliance. In most cases this is done by updating TOBT, however the handling agent can check CDM alerts and notify the pilot if the flight plan needs to be updated by their Company.
3. Any push-and-hold procedures to be applied will be initiated at call-up.
4. If ready, but delayed by ATC, DO NOT update the TOBT.
5. If a pilot has not reported ready for departure by TOBT +5, TOBT will be deleted and the TOBT must be updated with the TCO/GHA to become A-CDM compliant.

v. When ATC is ready to approve push (normally at TSAT +/- 5 mins):

1. Gatwick Delivery will issue appropriate instruction.
2. Pilots should follow normal procedures for communication with Tower.

vi. A-CDM Process During Winter Operations:

1. When de-icing is required, TOBT is defined as when the aircraft is expected to be ready for either pushback or on-stand de-icing.
2. Planned de-icing activity is fed into the Gatwick A-CDM system by GHA, who enters the intention to de-ice the aircraft. The de-icing Company allocate de-icing location (on stand or remote) and estimated start time and duration of de-icing.
3. When ready for de-icing on stand, the ground handler must report ready via Aircraft Ready to De-ice Time (ARDT).
4. The TTOT and TSAT during de-icing will take into account de-icing times and locations.
5. When ready to move the aircraft (either direct to the runway or to a remote de-icing pad), pilots should follow normal procedures for communication with Tower.

vii. On stand de-icing:

1. For on-stand de-icing, at TOBT +/-5 mins the GHA will report via A-CDM system that turn activities have been completed and the aircraft is ready (ARDT) for de-icing.
2. Once de-icing on stand is complete, pilots report to Gatwick Delivery and state: ‘[Call-sign] [stand] [QNH] ready to move’.
3. All further communication will be in line with standard procedures.

viii. Remote de-icing:

1. In the case of remote de-icing, at TOBT +/-5 mins pilots report to Gatwick Delivery and state: ‘[Call-sign] [stand] [QNH] ready to move’.
2. ATC will provide start clearance and taxi instructions to the remote de-icing pad.

3 CAT II/III OPERATIONS

a) Runways 08R and 26L, subject to serviceability of the required facilities, are suitable for Category II and III operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II and III operations, Special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed when these procedures are in operation by ATIS broadcast or by RTF.
c) Departing Aircraft: ATC will require departing aircraft to use the following Category III holding positions:

- Runway 26L — Alpha 3, Charlie 3 or Mike 3;
- Runway 08R — Juliet 3, Juliet 4, Juliet 7, Hotel 3 or Golf 3.

Occasionally it may be necessary for other departure points to be used due to work in progress or at the discretion of ATC. Under these circumstances, due allowance will be made by ATC for the necessary ILS protection.

d) Arriving Aircraft: All appropriate runway exits will be illuminated, and pilots should select the first convenient exit. Surface Movement Radar (SMR) is normally available to monitor pilot 'runway vacated' reports.

i. When SMR is not available to ATC, runway Localizer Sensitive Area (LSA) vacation will be confirmed by receipt of a pilot report that the tail of the aircraft has passed the last of the alternate amber and green centreline lights. These lights denote the extent of the ILS LSA.

e) When Low Visibility Procedures are in force reduced landing rates can be expected due to the requirement for increased spacing between arriving aircraft. In addition to the prevailing weather conditions, such factors as equipment serviceability may also have an effect on actual landing rates. For information and planning purposes, the approximate landing rates that can be expected are:

- RVR (M) — Expected Landing Rate
- Greater than 1000 — 24
- Between 1000 and 550 — 20
- Between 500 and 350 — 15
- Less than 300 — 12 or less

4 WARNINGS

a) In low visibility at night the apron and car park's floodlighting may be seen before approach lights on 26L and 26R approaches.
b) Except for light signals, ground signals are not displayed.
c) Pilots are warned, when landing on Runway 26L/R in strong southerly/south-westerly winds, of the possibility of building induced turbulance and windshear effects.
d) There are trees on high ground to the west, under the approach to Runways 08L and 08R. The tops are up to 287 FT AAL at ranges between 1.25 and 3 NM.
e) A hazard beacon showing a steady red light is situated on the extended centre-line of Runway 08R on tree covered high ground, 1.8 NM from 08R threshold. Trees within 0.6 NM of the beacon rise up to 89 FT above it. Another beacon, showing a steady red light, is situated 0.66 NM NNW of the first. Together, they mark the line of high ground. The beacons are switched on at night and when the high intensity approach lights are in use.
f) HT power line to the N, E and SE of airport; minimum distance 1.6 NM at 146 FT AAL rising to the S to 326 FT AAL at 4 NM. High ground to SE and S rising to 406 FT AAL is 3.5 NM from airport at its nearest point.
g) Arrivals – Due to disruption to the ILS signal during Code F operations, pilots can expect late notification of only RNP approach availability.

5 HELICOPTER OPERATIONS

a) All inbound and outbound helicopters must use the runways and may not carry out direct approaches to or take-off from apron areas or taxiways with the exception of emergency services flights e.g. Helicopter Emergency Medical Service (HEMS), police etc. Helicopter handling agents are to obtain slot allocation for all flights. After landing, helicopters will ground taxi or air taxi to an allocated parking area (usually an adjacent stand). A GAL Airfield Operations Leader vehicle will normally be in attendance. While helicopters are operating on the manoeuvring area extreme caution must be exercised regarding rotor-tip clearance and downwash.

6 USE OF RUNWAYS

a) Special runway utilisation procedures are detailed at GEN 3.3, Section 3, Para 3.9.4.
b) **Departure Wake Vortex Separations**

The following pairs of holding positions for Runways 26L/08R are considered to be the same point for the purposes of departure wake vortex separation:

Runway 26L	Runway 08R
Holding positions Mike 1/3 and Alpha 2/3	Holding positions Juliet 1/3 and Hotel 1/3
Holding positions Mike 1/3 and Bravo 1	Holding positions Juliet 1/3 and Golf 1/3
Holding positions Alpha 2/3 and Bravo 1	Holding positions Hotel 1/3 and Golf 1/3
Holding positions Bravo 1 and Charlie 1/3	
Holding positions Bravo 1 and Yankee 1/2	

c) **Use of Runway 08L/26R**

i. Runway 08L/26R is a non-instrument runway and will only be used when Runway 08R/26L is temporarily non-operational due to maintenance or incident. Runway 08R/26L is closed regularly to allow maintenance to take place. Dates and times are subject to change, latest details are advised by NOTAM and airport notices.
ii. Runway 08L/26R cannot be used simultaneously with Runway 08R/26L because of insufficient separation between the two. For this reason also, extensive safeguarding procedures are required (see d ii) before Runway 08L/26R can be activated. Runway 08L/26R is not available on request by pilots. Lighting for the closed runway and parallel taxiway will not be visible on approach.

d) **Restriction of Operation**

i. During Runway 08L/26R operations, delays may occur to aircraft taxiing on the aerodrome due to the following:

1. Taxiway Juliet, between Juliet 8 and Taxiway Sierra is limited to use by aircraft of wingspan of 36 M or below during take-offs or landings on Runway 08L/26R. Taxiway Juliet, between Taxiway Sierra and Juliet 5 is limited to use by aircraft of wingspan of 50 M or below during take-offs or landings on Runway 08L/26R.
2. Additional restrictions when the Surface Movement Radar (SMR) is not available.
3. Taxiway Alpha November is not available as an entry point to Runway 26R when 26R is the active runway.

ii. When Runway 08L/26R is being brought into planned use the aerodrome will be closed for a period of up to 15 minutes to allow the necessary safeguarding procedures to be implemented. The same will apply when Runway 08R/26L is brought back into use. In an emergency situation, implementation of the change to Runway 08L/26R can be expected to take substantially longer.

e) **Navaids**

When Runway 08L/26R is in use the only navigational aids available are:

i. Surveillance radar.
ii. DME.

f) **Runway and Approach Lights**

i. It is not possible for both Runway 08R/26L and Runway 08L/26R lighting systems to be illuminated at the same time.
ii. The take-off distance (TODA) for Runway 08L starts at the beginning of the runway, indicated by the white painted runway demarcation line marking abeam the 08L TODA sign, this is where the take-off roll should commence. The 08L TODA sign is located to the right of the runway, 307 M **before** the marked runway displaced threshold.
iii. All runways at Gatwick have displaced thresholds. Crews are to ensure they are familiar with departure procedures when operating from displaced threshold runways.
iv. The runway holding positions, in addition to illuminated red stop bars, are marked by mandatory signs and amber flashing runway guard lights.
v. When the taxiway lighting system is in use during Runway 08L/26R operation, limited selective switching of green centreline lights is available in conjunction with illuminated red stop bars at runway holding positions. Pilots must exercise extreme caution to remain on the correct taxiway route when cleared to the runway from a holding position. In certain positions, amber flashing runway guard lights, forward of the holding positions, denote the proximity of the runway itself.

g) **Minimum Runway Occupancy Time**

i. **Departures**

1. On receipt of line-up clearance pilots should ensure that they are able to taxi and line up on the runway as soon as the preceding aircraft has commenced either its take-off roll or landing run.
2. On receipt of take-off clearance, pilots should ensure that they are able to commence take-off without delay.
3. Pilots not able to comply with these requirements should notify ATC as soon as possible once transferred to the Gatwick Tower frequency.

ii. **Arrivals**

1. High Intensity Runway Operation requires all aircraft to exit the runway at the fastest speed commensurate with safety. Extended runway occupancy may result in following aircraft being sent around.
2. Pilots should pre-plan their landing and roll out to target the exit taxiways that provide a safe and expeditious exit from the runway to reduce delays and maximise utilisation at all times.

08R	**D**	**CR**	**BR**
Distance from threshold (M)	1376	1796	2251
Design Exit Speed (KT)	38	49	50
Notes: Landing aircraft are to vacate expeditiously. Arrivals must taxi beyond the CAT III hold point and do not require clearance to enter/cross Runway 08L/26R when vacating Runway 08R. Traffic vacating at **CR** or **D** must contact ATC promptly when instructed. Traffic vacating at **BR** is to join Taxiway Papa and hold short of Taxiway Juliet unless otherwise instructed. Tactical requests to extend the landing roll to reduce ground taxi/exit nearer to the parking stand are not to be made to ATC. Taxiways **ER** and Mike are not available for vacating Runway 08R.			

26L	ER	FR	GR
Distance from threshold (M)	1480	1835	2126
Design Exit Speed (KT)	50	50	49

Notes:
Landing aircraft are to vacate expeditiously.
Arrivals must taxi beyond the CAT III hold point and do not require clearance to enter/cross Runway 08L/26R when vacating Runway 26L.
Traffic vacating at **ER** is to turn right on to Runway 08L and hold short of Taxiway Tango, without stopping on the runway exit taxiway.
Traffic vacating **FR** and **GR** is to cross Runway 08L/26R onto Taxiway Juliet, without stopping on the runway exit taxiway.
Taxiway Delta is not available for vacating Runway 26L.

3. Rapid Exit Taxiway Indicator Lights (RETILs) and paint markings are provided on Runway 08R/26L to assist pilots in judging distances to Rapid Exit Taxiways enabling braking action to be applied for a more efficient roll-out and runway exit speed. RETILs are provided for exit at D and CR on Runway 08R and ER and FR on Runway 26L.

   The RETILs provide a 3-2-1 countdown pattern of amber lights together with painted markings placed at 300 M, 200 M and 100 M from the intersection of the runway centreline with the Rapid Exit Taxiway centreline. 3 white painted bars and 3 amber lights are provided at 300 M to go, 2 white bars and 2 amber lights at 200 M to go and 1 white bar and 1 amber light at 100 M to go. Painted bars and RETILS are positioned on the left hand side of the runway centreline for Runway 08R and the right hand side of the runway centreline for Runway 26L. The painted bars are angled in the direction of the Rapid Exit Taxiway.

7 TRAINING

Not applicable

EGKK AD 2.21 NOISE ABATEMENT PROCEDURES

Notice under Section 78(1) of the Civil Aviation Act 1982

Whereas:

(1) By virtue of the Civil Aviation (Designation of Aerodromes) Order 1981 (a) Gatwick Airport – London is a designated aerodrome for the purpose of Section 78 of the Civil Aviation Act 1982 (b);
(2) the requirements specified in this notice appear to the Secretary of State to be appropriate for the purpose of limiting, or of mitigating the effect of, noise and vibration connected with the taking off or, as the case may be, landing of aircraft at Gatwick Airport – London.

Now, therefore, the Secretary of State, in exercise of the powers conferred on him by Section 78 (1) and (12) of the Civil Aviation Act 1982, by this notice published in the manner prescribed by the Civil Aviation (Notices) Regulations 1978 (c), hereby provides as follows:

1. This notice may be cited as the Gatwick Airport – London (Noise Abatement Requirements) Notice 2023 and came into operation on 28 December 2023.
2. It shall be the duty of every person who is the operator of any aircraft which is to take off or land at Gatwick Airport – London to secure that, after the aircraft takes off or, as the case may be, before it lands at the aerodrome the following requirements are complied with:

    1. After take-off the aircraft shall be operated in such a way that it is at a height of not less than 1000 FT AAL at 6.5 KM from start of roll as measured along the departure track of that aircraft.
    2. The sites of the noise monitoring terminals relating to Gatwick Airport – London are:

Description	OS Co-ordinates	Elevation above aerodrome	Latitude	Longitude
Site 1: Russ Hill	TQ 2227 3923	54 M	*510821N	0001513W
Site 3: Orltons	TQ 2166 3878	57 M	*510807N	0001545W
Site 5: Oaklands Park Farm	TQ 2170 3939	52 M	*510827N	0001542W
Site 4: Moat House	TQ 3180 4140	4 M	510924N	0000700W
Site 6: Bellwood	TQ 3176 4177	3 M	*510936N	0000702W

    3. Subject to sub-paragraphs (5) and (6) below, any aircraft shall, after take-off, be operated in such a way that it will not cause more than 94 dBA Lmax by day 0700-2300 (0600-2200) as measured at any noise monitoring terminal at any of the sites referred to in sub-paragraph (2) above.
    4. Subject to sub-paragraphs (5) and (6) below, any aircraft shall, after take-off, be operated in such a way that it will not cause more than 89 dBA Lmax by night 2300-0700 (2200-0600) **and** that it will not cause more than 87 dBA Lmax during the night quota period 2330-0600 (2230-0500) as measured at any noise monitoring terminal at any of the sites referred to in sub-paragraph (2) above.
    5. The limits specified in sub-paragraphs (3) and (4) above shall be adjusted in accordance with the following table in respect of any noise monitoring terminal at any of the sites referred to in the table in sub-paragraph (2) above to take account of the location of that terminal and its ground elevation relative to the aerodrome elevation.

Description	Adjustment dBA
Site 1: Russ Hill	plus 5.0
Site 3: Orltons	plus 1.9
Site 5: Oaklands Park Farm	plus 1.9
Site 4: Moat House	0.0
Site 6: Bellwood	minus 0.2

    6. For the purpose of determining an infringement of the limits specified in sub-paragraphs (3) and (4) above, if the aircraft was required to take-off with a tailwind, an amount of up to 2dB of the noise recorded at the noise monitor should be disregarded. The amount to be disregarded shall be:

        - 0.4 dB for a tailwind of up to 1 KT
        - 0.8 dB for a tailwind exceeding 1 KT but not exceeding 2 KT
        - 1.2 dB for a tailwind exceeding 2 KT but not exceeding 3 KT
        - 1.6 dB for a tailwind exceeding 3 KT but not exceeding 4 KT
        - 2.0 dB for a tailwind exceeding 4 KT.

        For this purpose, tailwind is to be calculated from the wind data measured in the on-airfield anemometers and wind vanes according to the formula:

        (windspeed x cosine (runway heading minus wind direction)) x – 1.

        If the station is unavailable, the nearest equipped noise monitoring terminal or aerodrome METAR shall be used.

    7. Where the aircraft is a jet aircraft, after passing the point referred to in sub-paragraph (1) above, it shall maintain a gradient of climb of not less than 4% to an altitude of not less than 3000 FT. The aircraft shall be operated in such a way that progressively reducing noise levels at points on the ground under the flight path beyond that point are achieved.

8.

a) This sub-paragraph (8) applies to aircraft other than:

i. any propeller driven aircraft whose MTWA does not exceed 5700 KG; or
ii. during the period between 0600-2330 (0500-2230), any propeller driven aircraft whose MTWA does not exceed 17000 KG.

b) Subject to sub-paragraph (8) (d) below, after any aircraft to which sub-paragraph (8) applies takes off from any runway specified in the first column of the following table, the aircraft shall follow the Noise Preferential Routeing Procedure specified in the third column of the table which relates to the ATC clearance previously given to the aircraft and specified in the second column of the table, whether flying in IMC or VMC.
c) The ATC clearance via Mayfield specified in the second column of the table will not be available between 2300-0700 (2200-0600). Aircraft following the Noise Preferential Routing Procedure which relates to that clearance shall not fly over Crawley, Crawley Down or East Grinstead.
d) Where any aircraft to which this sub-paragraph (8) applies has taken off on a VFR flight plan, it shall follow the applicable Noise Preferential Routeing Procedure before turning onto the intended track.

Take-off Runway	ATC Clearance	Procedure
26L/R	Via ACORN (This route to be used only under Radar Control).	Straight ahead until I-WW DME 2.3 then turn right to intercept DET VOR RDL258 by DET DME 31 to DET DME 15.
	Via BOGNA	Straight ahead and maintain track 257°. At MID DME 10.5 turn left to intercept OCK VOR RDL175. At OCK DME 28 turn left to intercept MID VOR RDL146 to BOGNA.
	Via Midhurst	Straight ahead and maintain track 258° to intercept MID VOR RDL064.
	Via SFD (This route to be used only 2300-0600 (2200-0500))	Straight ahead and maintain track 258° until crossing SFD VOR R319 (I-WW DME 6.8) then turn left to intercept RDL312 to SFD VOR.
	Via Mayfield (This route to be used only 0700-2300 (0600-2200))	Straight ahead until I-WW DME 2.3 then turn left to intercept MAY VOR RDL283 by MAY DME 13 to MAY VOR.
	Circuit Flights	Straight ahead until I-WW DME 2.3 NM before turning across wind.
08L/R	Via DET VOR R260	Straight ahead until I-GG DME 3.5 turn left to intercept DET VOR RDL260 to DET DME 43.
	Via ACORN	Straight ahead until I-GG DME 3.5 then turn left to track 052°M to intercept DET VOR RDL259 by DET DME 20 to ACORN.
	Via TUNBY	Straight ahead and maintain track 078° to intercept DVR VOR RDL270 to TUNBY.
	Via Seaford	Straight ahead until I-GG DME 2.5 then turn right to intercept SFD VOR RDL344 to SFD VOR.
	Circuit Flights	Straight ahead until I-GG DME 2.5 before turning across wind.

9. After taking off the aircraft shall avoid flying over the congested areas of Horley and Crawley.
10. Where the aircraft is approaching the aerodrome to land it shall, commensurate with its ATC clearance, minimise noise disturbance by the use of continuous descent and low power, low drag operating procedures (referred to in Detailed Procedures for descent clearance in section EGKK AD 2.22 of the UK AIP). Where the use of these procedures is not practicable, the aircraft shall maintain as high an altitude as possible. In addition, when descending on initial approach, including the closing heading, and on intermediate and final approach, thrust reductions should be achieved where possible by maintaining a 'clean' aircraft configuration and by landing with reduced flap, provided that in all the circumstances of the flight this is consistent with safe operation of the aircraft.
11. Before landing at the aerodrome the aircraft shall maintain as high an altitude as practicable and shall not fly over the congested areas of Crawley, East Grinstead, Horley and Horsham at an altitude of less than 3000 FT (Gatwick QNH) nor over the congested area of Lingfield at an altitude of less than 2000 FT (Gatwick QNH).
12.

a) Except where sub-paragraph (12) (b) applies, the aircraft shall not join the final approach to either runway at a height of less than 1500 FT AAL.
b) where the aircraft is a propeller driven aircraft whose MTWA does not exceed 5700 KG, it shall not join the final approach to either runway at the aerodrome at a height of less than 1000 FT AAL and shall follow a descent path which will not result in its being at any time lower than the height of the approach path normally indicated by the PAPI.

13.

a) Where the aircraft is using the ILS in IMC or VMC it shall not descend below 2000 FT (Gatwick QNH) before intercepting the glidepath, nor thereafter fly below the glidepath; and
b) an aircraft approaching without assistance from the ILS shall follow a descent path which will not result in its being at any time lower than the height of the approach path normally indicated by the PAPI.

14. Aircraft which land at Gatwick Airport - London between 2330-0600 (2230-0500), whether or not making use of the ILS localizer and irrespective of weight or type of approach, shall not join the centre-line:

a) below 3000 FT or
b) closer than 10 NM from touchdown.

15. Without prejudice to the provisions of sub-paragraphs (1)-(14) above, the aircraft shall at all times be operated in a manner which is calculated to cause the least disturbance practicable in areas surrounding the aerodrome.
16. The requirements set out in sub-paragraphs (1)-(15) above may at any time be departed from to the extent necessary for avoiding immediate danger or for complying with the instructions of an Air Traffic Control unit.

3. In this notice, except where the context otherwise requires:

'dBA' means a decibel unit of sound level measured on the A-weighted scale, which incorporates a frequency dependent weighting approximating the characteristics of human hearing;

Lmax' means the highest instantaneous sound level recorded (with the noise monitoring terminal set at the slow meter setting);

other abbreviations used are defined in GEN 2-2 of the United Kingdom Aeronautical Information Publication (Air Pilot).

Erin Cowburn
Deputy Director
Airports Policy Division
28 December 2023 **Department for Transport**

a) S.I. 1981/651.
b) 1982 c.16.
c) S.I. 1978/1303.
d) 1972 c.6.

Notes

(These notes are not part of the notice)

1. The Noise Preferential Routeing Procedures specified in the above notice are compatible with normal ATC requirements. The use of the routeings specified above is supplementary to noise abatement take-off techniques as used by piston-engined, turbo-prop, turbo-jet and turbo-fan aircraft.

2. The attention of operators is drawn to the provisions of Section 78 (2) of the Civil Aviation Act 1982, under which if it appears to the Secretary of State that any of the requirements in this notice have not been complied with as respects any aircraft, he may direct the manager of the aerodrome to withhold facilities for using the aerodrome from the operator of the aircraft. However, the Secretary of State accepts that occasional and exceptional breaches of the noise limits, or of the height requirement, would not be expected to lead to sanctions under Section 78 (2). Such breaches would, however, run the risk of financial penalties.

3. Noise from ground running of aircraft engines is controlled in accordance with instructions issued by Gatwick Airport Limited.

4. To minimise disturbance in areas adjacent to the aerodrome, commanders of aircraft are requested to avoid the use of reverse thrust after landing, consistent with the safe operation of the aircraft, between 2330-0600 (2230-0500).

5. Full details concerning the maximum number of occasions and the types of aircraft which are permitted to take off or land at night during specified periods at this aerodrome are promulgated by Supplement.

6. For monitoring purposes, a descent will be deemed to have been continuous provided that no segment of level flight longer than 2.5 nautical miles (NM) occurs below 7000 FT QNH and 'level flight' is interpreted as any segment of flight having a height change of not more than 50 FT over a track distance of 2 NM or more, as recorded in the airport noise and track-keeping system.

7. For monitoring purposes, a departure will be deemed to have complied with the Noise Preferential Routeing (NPR) if, in the portion of flight below the appropriate vectoring altitude (see note 8 below), it is properly recorded by the airports noise and track-keeping (NTK) system as having flown wholly within the Lateral Swathe (LS). The LS is defined from the centre-line of the relevant route coded in the NTK system, based upon a map accredited for this purpose by the Department for Transport, by the closer to the route centre-line depicted on the map of (a) a pair of lines either side, each diverging at an angle of 10° from a point on the runway centre-line 2000 M from start-of-roll: and (b) a pair of parallel lines representing a distance of 1.5 KM either side of the route centre-line. For avoidance of doubt, the depicted route and LS may include curved sections representing turns.

8. Aircraft which have attained an altitude of 4000 FT (Gatwick QNH) may be directed by air traffic controllers onto a different heading and commanders complying with any such direction will not by reason of so complying be deemed to have departed from the Noise Preferential Routeing. This applies:

   a) between 2330-0600 (2230-0500) to all take-offs, and

   b) between 0600-2330 (0500-2230) to:

      i. all departures from Runway 26L/R, other than those cleared via NOVMA, IMVUR, KENET or SAM SIDs.

      ii. take-offs from Runway 08L/R cleared via SFD.

   Between 0600-2330 (0500-2230) aircraft which have taken off from Runway 26L/R cleared via NOVMA, IMVUR, KENET or SAM SIDs or from Runway 08L/R (other than those cleared via SFD) and which have attained an altitude of 3000 FT (Gatwick

QNH) may be directed by air traffic controllers onto a different heading and commanders complying with any such direction will not by reason of so complying be deemed to have departed from the Noise Preferential Routeing.

9. As the Navigation Aids (NAVAIDs) used previously in the noise abatement procedures are withdrawn as part of the NATS NERL NAVAID Rationalisation project and the conventional Standard Instrument Departures have been RNAV Substituted, the following latitude and longitude coordinates replicate the specific location of the old NAVAIDs which are listed below:

NAVAID	Coordinates
OCK VOR	511818.17N 0002649.86W
MAY VOR	510101.86N 0000658.04E
MID VOR	510314.23N 0003730.01W
DVR VOR	510945.44N 0012132.72E
LON VOR	512914.09N 0002759.54W
BIG VOR	511951.15N 0000205.32E
LAM VOR	513845.69N 0000906.13E
DET VOR	511814.41N 0003550.19E
GWC VOR	505118.79N 0004524.25W
SAM VOR	505718.90N 0012042.20W

EGKK AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) Inbound other than Airways

i. IFR aircraft inbound to London Gatwick direct from the London FIR will be required to use the procedure via Mayfield holding pattern detailed at paragraph 4(e).
ii. Pilots inbound to London Gatwick under VFR call Gatwick Director at one of the VFR Reference Points (VRPs) listed at paragraph 13, where aircraft will either be given a route to follow or will be identified by radar and directed into the Approach sequence.
iii. Except where required by the Instrument Approach Procedures, inbound aircraft to London Gatwick in both VMC and IMC should, whenever possible avoid flight below 3000 FT over towns and other populated areas within the Control Zone. Whenever possible aircraft under radar control will be directed to avoid flying over Crawley, East Grinstead, Horley and Horsham below 3000 FT. When a radar service is not being provided it will be the responsibility of captains of aircraft on VFR flight plans or on visual approaches to ensure compliance.

b) Inbound on Airways

i. Aircraft inbound to London Gatwick via the Airways System will be routed via the Standard Terminal Arrival Routes (STARs) detailed at AD 2-EGKK-7.

2 RADIO COMMUNICATION FAILURE PROCEDURES

a) Inbound Aircraft

i. In the event of complete radio failure in an aircraft the pilot is to adopt the appropriate procedures notified at ENR 1.1, subsection 3, with the exception described below.
ii. When complete communications failure occurs in the aircraft before ETA, or before EAT when this has been received and acknowledged, the aircraft will:

1. fly to the appropriate holding point (TIMBA, WILLO or Mayfield);
2. hold until the last acknowledged ETA plus 10 minutes or EAT when this has been given;
3. then commence descent for landing in accordance with the approach procedure for the runway-in-use (see AD 2-EGKK-7) and effect a landing within 30 minutes (or later if able to approach and land visually).

b) If complete radio communications failure occurs after an aircraft has reported to ATC on reaching the holding point, the aircraft will:

i. hold at the last assigned level at TIMBA, WILLO or Mayfield until:

1. ATA over the holding point plus 10 minutes or 10 minutes after the last acknowledged communication with ATC, whichever is the later; or
2. EAT when this has been received and acknowledged.

ii. then commence descent for landing in accordance with the approach procedure for the runway-in-use (see AD 2-EGKK-7) and effect a landing within 30 minutes (or later if able to approach and land visually).

c) When complete radio communication failure occurs during intermediate or final approach under radar control the procedures to be followed are detailed at AD 2-EGKK-5.
d) When complete radio communication failure occurs in the aircraft following a missed approach the aircraft will:

i. fly the appropriate missed approach procedure to Mayfield VOR/DME;
ii. complete at least one holding pattern at 3000 FT;
iii. then commence descent for landing in accordance with the approach procedure for the runway-in-use (see AD 2-EGKK-7) and effect a landing within 30 minutes (or later if able to approach and land visually).

e) The routes and levels to be used when leaving the Zone or Holding Area in accordance with the procedures given at ENR 1.1, subsection 3 are shown in the table below, the route to be followed is dependent on the position of the aircraft at the time the decision to leave the Zone is made.

Position at time of decision	Route
Mayfield	Track 250°T at last assigned altitude
TIMBA	Track 090°T at last assigned level
WILLO	Track 230°T at last assigned level/altitude

3 RADIO COMMUNICATION FAILURE PROCEDURES OUTBOUND AIRCRAFT

a) Outbound traffic operating on FRANE 1M/1V/1P/1W/1Z: If a clearance to climb or re-routing instructions have not been given, comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedures listed at AD 2-EGKK-6, at FRANE route via M604 to DAGGA and maintain 6000 FT until DAGGA; at DAGGA, commence climb to flight planned level.
b) All outbound traffic except those operating on FRANE 1M/1V/1P/1W/1Z: Comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedures (listed at AD 2-EGKK-6) or ATC clearance and commence climb to flight planned level after the last position at which an altitude is specified.

4 HOLDING

a) Aircraft inbound to London Gatwick Airport using the ATS Route Network will, after the initial routing, follow the appropriate STAR to the holding fixes TIMBA or WILLO. The STARs are illustrated at AD 2-EGKK-7. For aircraft holding below 6000 FT ALT, holding will be at Mayfield MAY VOR. (In light traffic conditions aircraft may be routed direct to MAY VOR above 6000 FT).
b) Pilots unable to comply with ATC clearance must notify ATC as soon as possible.
c) Aircraft may be radar-vectored off-route for the purpose of ATC separation. When separation has been achieved, ATC will give an approximate QDM to resume the STAR via the appropriate VOR radial or fix.
d) In the event of aircraft equipment failure, ATC must be advised and ATC instructions complied with.
e) Mayfield VOR/DME Holding Pattern:

i. This procedure will be used by aircraft inbound to London Gatwick from the FIR, after missed approach, via airways when instructed by London Control or when instructed by Gatwick Director.
ii. Aircraft will hold on an axis of 090° MAG (RDL 270°) turning left at the facility, generally from 3000 FT ALT to 6000 FT ALT. The end of the outbound leg is at 5 DME MAY.
iii. Altitudes at and below 6000 FT ALT will be allocated by Gatwick Director.

5 APPROACH PROCEDURES WITH RADAR CONTROL

a) When inbound traffic is being sequenced by Air Traffic Control, that part of the approach between the holding fix and the Final Approach Track (FAT) will be flown under directions from the Radar Controller. Once the aircraft is under Radar Control, changes of heading or flight level/altitude will be made only on instructions from the Radar Controller except in the case of radio communication failure in the aircraft or at the radar unit.

6 DETAILED PROCEDURES

a) Headings and flight levels at which to leave the holding facility will be passed by ATC. Radar vectors will be given, and descent clearance will include an estimate of track distance to touchdown. Further distance information will be given between initial descent clearance and intercept heading to the ILS. On receipt of descent clearance the pilot will descend at the rate he judges will be best suited to the achievement of continuous descent, the object being to join the glide path at the appropriate height for the distance without recourse to level flight.
b) During intermediate approach (after leaving the hold until approximately 6 NM before turning onto the ILS intercept heading), aircraft will be instructed to fly in the speed range 210 KT – 220 KT as required. Thereafter and until established on final approach, the highest possible speed within the band is 160 KT – 180 KT. Inbound aircraft must be established at 160 KT, on a stable approach at not less than 7 NM from touchdown. For aircraft that are unable to maintain 160 KT to 4 NM from touchdown, TC Gatwick will ascertain the final approach speed and inform the air controller. TC Gatwick may transfer high speed traffic to air without prior co-ordination provided that the pilot is instructed to report speed on initial contact. However, TC Gatwick must effect prior co-ordination if separation from a following aircraft is dependent on the leading aircraft maintaining a speed higher than 160 KT.
c) The system is designed to maximize arrival capacity at London Gatwick and to minimize noise disturbance in the areas overflown during the approach and aircraft commanders are requested to conform to low-power, low-drag procedures, including delays to the extension of wing flaps and undercarriage until the final stages of the approach.
d) The spacing provided between aircraft will be designed to achieve maximum runway utilization within the parameters of safe separation minima (including vortex effect) and runway occupancy. It is important to the validity of the separation provided, and to the achievement of optimum runway capacity, that runway occupancy time is kept to a minimum consistent with the prevailing conditions.
e) Missed Approach Procedures are contained on the Instrument Approach charts.

7 PRESSURE SETTINGS

a) When below the Transition Altitude, pilots are to fly on the aerodrome QNH until established on final approach, at which point QFE or any other desired setting may be used.

8 RADAR FAILURE

a) In the event of radar failure, fresh instructions will be issued to each aircraft under radar control and the procedures in paragraph 9 will be brought into use.

9 RADIO COMMUNICATIONS FAILURE AT THE RADAR UNIT

a) If radio communication completely fails at the radar unit when aircraft are under Radar Control, pilots will revert to Aerodrome Control for fresh instructions.

10 APPROACHES WITHOUT RADAR

a) When traffic is not being sequenced by Air Traffic Control, aircraft will be cleared from the holding areas to carry out the appropriate Initial Approach Procedures as outlined in AD 2-EGKK-7-17 and AD 2-EGKK-7-18.

11 PROCEDURES FOR OUTBOUND AIRCRAFT

a) RNAV SIDs are available only to aircraft which are equipped and operated in accordance with the requirements of JAA TGL-10, or equivalent, and approved by their State of Registry for RNAV 1 operations.

i. In addition, RNAV 1 SIDs are only available to those aircraft that are either GNSS equipped or that have **DME/DME and INS/IRU with an automatic runway update.**
ii. Aircraft which are not capable/certified as detailed in (b) and (i) above shall fly the conventional navigation version of the SID as detailed in the appropriate charts in AD 6.
iii. There are no critical navaids associated with the RNAV 1 SIDs assuming the use of GNSS or INS/IRU for initial guidance up to an altitude of 2000 FT. RNAV 1 SIDs are detailed in AD 6 together with appropriate navigation database coding tabulation.
iv. RNAV 1 SIDs are available for use, at ATC discretion, on a 24 hour basis (H24), unless otherwise stated on the chart.
v. RNAV 1 SIDs are clearly identified and distinguishable from conventional SIDs by the use of a specific suffix, which will be a 'Z' for 08R departures and an 'X' character for 26L departures. RNAV 1 SIDs are NOT available for use from Runway 26R/08L; Conventional Navigation SID will be issued by ATC for 26R/08L departures.
vi. Crews will be issued with an RNAV1 SID if their flight plan includes information such that the aircraft is RNAV1 capable. Crews shall request an ATC clearance for conventional SID route if unable to comply with RNAV1. On first RTF call after airborne, crews are to advise London Control/Gatwick Radar of the full SID designator as part of the requirements for initial calls on departure, e.g. "London Control, Fastjet 123 NOVMA 1X passing 2000 FT, climbing to altitude 4000 FT".
vii. Intersection departures **are** permitted for aircraft flying the RNAV SIDs. Aircrew flying aircraft that are not GNSS equipped and that are departing from an intersection shall ensure that the relevant actions have been taken on the flight deck so that the FMS has been updated and is informed that the aircraft will be departing from an intersection. This will ensure that the correct co-ordinates are used by the Inertial Navigation System / Inertial Reference Unit upon selection of TOGA and therefore reduce the risk of a map shift event on departure.
viii. Speed limits apply at specified waypoints for track containment purposes.
ix. Aircraft flying on RNAV 1 SIDs can expect to receive radar vectors from ATC as per the operating procedure for conventional SIDs.

b) Conventional SIDs

i. Conventional SIDs will be used for those aircraft which do not specify a preference for RNAV 1 SID clearance or for when an ATC clearance cannot be issued for the use of the RNAV 1 SIDs.
ii. Flights requiring M605 should plan BOGNA 1M/1V DCT HARDY.

12 SPEED LIMITATION

a) Departure Speed Restriction: In order to optimise the departure flow and assist in the separation between successive departing aircraft a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase ‘No ATC Speed Restriction’. Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation.
b) If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation.

13 SPECIAL VFR FLIGHTS

a) Special VFR clearances for flights within the Gatwick CTR may be requested and will be given whenever traffic conditions permit. These flights are subject to the general conditions laid down for Special VFR flights and will normally be given only to aircraft which carry RTF including the appropriate frequencies.

Note: *Pilots holding a Private Pilots Licence (Aeroplanes) are reminded of the visibility requirements for Special VFR flights laid down in Schedule 7 of the Air Navigation Order 2009 and the related notification in paragraph 1.2.*

b) The use of Special VFR clearances is intended to be confined to the following types of flight:

i. Light aircraft which cannot comply with full IFR requirements and wish to proceed to or from London Gatwick Airport;
ii. light aircraft which cannot comply with full IFR requirements and wish to transit the Gatwick CTR.

c) Special VFR clearances to operate within the Gatwick CTR for the purpose of proceedings to or from London Gatwick Airport will not be granted to fixed-wing aircraft if the reported visibility at the Airport is less than 3 KM or the reported cloud ceiling is less than 1000 FT.
d) Aircraft may be given a radar service whilst within the zone if, due to the traffic situation, ATC considers it advisable. It will remain the responsibility of the pilot to remain at all times in flight conditions which will enable him to determine his flight path and to keep clear of obstacles, and to ensure that he is able to comply with the relevant low flying restrictions of SERA and the Rules of the Air Regulations 2015, with particular regard to SERA.3105 Minimum Heights, pilots must inform the radar controller if compliance entails a change of heading or height.
e) Special VFR flights may be subject to delay when parts of their route are outside radar cover or when they cannot be fitted readily into the main traffic flow. Pilots should, therefore, always ensure that they have adequate fuel reserves and are able to divert to another aerodrome if necessary.

14 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

15 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the Gatwick controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Gatwick Director frequency, 126.825 MHz, are encouraged to select SSR code 7012.

505832N 0003428W - 510314N 0003730W -
511422N 0003506W - 511957N 0001917E -
511217N 0002018E - 510002N 0001541E -
505900N 0001333E - 505541N 0001007W -
505832N 0003428W.

b) Selection of 7012 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Gatwick controlled airspace at all times.
c) Whilst squawking 7012, pilots should be aware that Gatwick Director may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 7012 shall be deselected.

EGKK AD 2.23 ADDITIONAL INFORMATION

1 MODE S BAROMETRIC PRESSURE SETTING DATA

a) London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

EGKK AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGKK-2-1
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO
AD 2.EGKK-2-2
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING STAND COORDINATES
AD 2.EGKK-2-3
GROUND MOVEMENT CHART HOLDING AREAS - ICAO
AD 2.EGKK-2-4
AERODROME CHART CODE F AIRCRAFT GROUND MOVEMENT - ICAO
AD 2.EGKK-2-5
AIRCRAFT GROUND MOVEMENT - REMOTE DE-ICING AREAS LOCATION CHART - ICAO
AD 2.EGKK-2-6
CONTROL ZONE AND CONTROL AREA CHART
AD 2.EGKK-4-1
REDHILL LOCAL FLYING AREA

AD 2.EGKK-4-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGKK-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R/L LAM 5P 5W - ICAO
AD 2.EGKK-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 26L/R LAM 6M 6V - ICAO
AD 2.EGKK-6-2
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R LAM 1Z - ICAO
AD 2.EGKK-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R/L 26L/R FRANE 1M 1V 1P 1W - ICAO
AD 2.EGKK-6-4
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R FRANE 1Z - ICAO
AD 2.EGKK-6-5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 26L/R BOGNA 1M 1V (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGKK-6-6
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 26L BOGNA 1X HARDY 1X - ICAO
AD 2.EGKK-6-7
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R/L 26L/R KENET 3P 3W NOVMA 1M 1V SAM 3P 3W - ICAO
AD 2.EGKK-6-8
RNAV1 (DME/DME OR GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R 26L IMVUR 1Z NOVMA 1X - ICAO
AD 2.EGKK-6-9
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R/L 26L/R SFD 5M 5V 9W 9P - ICAO
AD 2.EGKK-6-10
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R 26L SFD 4Z 1X - ICAO
AD 2.EGKK-6-11
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 26L/R WIZAD 4M 4V - ICAO
AD 2.EGKK-6-12
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 26L WIZAD 1X - ICAO
AD 2.EGKK-6-13
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R/L 26L/R MIMFO 1M 1V DVR 2P 2W - ICAO
AD 2.EGKK-6-14
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 08R ODVIK 2Z - ICAO
AD 2.EGKK-6-15
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 26L/R TIGER 3M 3V DAGGA 1M 1V - ICAO
AD 2.EGKK-6-16
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 26L TIGER 1X DAGGA 1X - ICAO
AD 2.EGKK-6-17
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 08R LAM 1Z FRANE 1Z
AD 2.EGKK-6-18
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 26L BOGNA 1X HARDY 1X
AD 2.EGKK-6-19
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 08R IMVUR 1Z RWY 26L NOVMA 1X RWY 08R SFD 4Z RWY 26L SFD 1X
AD 2.EGKK-6-20
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 26L WIZAD 1X RWY 08R ODVIK 2Z
AD 2.EGKK-6-21
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 26L TIGER 1X DAGGA 1X
AD 2.EGKK-6-22
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART- INSTRUMENT (STAR) BARMI 1G TEBRA 2G KONAN 2G - ICAO
AD 2.EGKK-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) MID 1X - ICAO
AD 2.EGKK-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) NEVIL 1G KUNAV 1G - ICAO
AD 2.EGKK-7-3
RNAV1 (DME/DME OR GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) OTMET 1G VASUX 1G - ICAO
AD 2.EGKK-7-4
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) AMDUT 1G ARNUN 1G - ICAO
AD 2.EGKK-7-5
RNAV1 (DME/DME OR GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) TELTU 1G - ICAO
AD 2.EGKK-7-6
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) DISIT 1G KIDLI 1G - ICAO
AD 2.EGKK-7-7
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ABSAV 1G GWC 1G - ICAO

AD 2.EGKK-7-8
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) SIRIC 1G - ICAO
AD 2.EGKK-7-9
STANDARD INSTRUMENT ARRIVAL CODING TABLES BARMI 1G TEBRA 2G KONAN 2G
AD 2.EGKK-7-10
STANDARD INSTRUMENT ARRIVAL CODING TABLES MID 1X NEVIL 1G KUNAV 1G
AD 2.EGKK-7-11
STANDARD INSTRUMENT ARRIVAL CODING TABLES OTMET 1G VASUX 1G AMDUT 1G ARNUN 1G
AD 2.EGKK-7-12
STANDARD INSTRUMENT ARRIVAL CODING TABLES TELTU 1G DISIT 1G KIDLI 1G
AD 2.EGKK-7-13
STANDARD INSTRUMENT ARRIVAL CODING TABLES ABSAV 1G GWC 1G SIRIC 1G
AD 2.EGKK-7-14
RNAV HOLD CODING TABLES ADLOG AMDUT ARNUN BILNI DELBO DOMUT GOKTU
AD 2.EGKK-7-15
RNAV HOLD CODING TABLES GWC KATHY TIMBA WILLO
AD 2.EGKK-7-16
INITIAL APPROACH PROCEDURES ILS RWY 08R Without Radar Control
AD 2.EGKK-7-17
INITIAL APPROACH PROCEDURES ILS RWY 26L Without Radar Control
AD 2.EGKK-7-18
INSTRUMENT APPROACH CHART ILS/DME RWY 08R - ICAO
AD 2.EGKK-8-1
INSTRUMENT APPROACH CHART LOC/DME RWY 08R - ICAO
AD 2.EGKK-8-2
INSTRUMENT APPROACH CHART RNP RWY 08R - ICAO
AD 2.EGKK-8-3
INSTRUMENT APPROACH CHART RNP RWY 08L - ICAO
AD 2.EGKK-8-4
INSTRUMENT APPROACH CHART ILS/DME RWY 26L - ICAO
AD 2.EGKK-8-5
INSTRUMENT APPROACH CHART LOC/DME RWY 26L - ICAO
AD 2.EGKK-8-6
INSTRUMENT APPROACH CHART RNP RWY 26L - ICAO
AD 2.EGKK-8-7
INSTRUMENT APPROACH CHART RNP RWY 26R - ICAO
AD 2.EGKK-8-8
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 08L/R and 26L/R
AD 2.EGKK-8-9

EGKK AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

AERODROME CHART - ICAO

ARP 510853N 0001125W

AD ELEV 203FT

LONDON GATWICK
EGKK

COM		
ATIS	136.525	GATWICK INFO
TWR	124.230, 121.500*	GATWICK TOWER *Emergency On Request
	134.230 (As directed by ATC)	
	121.955	GATWICK DELIVERY
	121.805 (GMC)	GATWICK GROUND
	121.600	GATWICK FIRE

LIGHTING	
THR 08R/26L THR 08L/26R	HI green with W bars. HI green with W bars. RTILS synchronised flashing White.
RWY 08R	HI flush bi-d edge, red for first 393 m from RWY end to displaced THR. HI colour coded C/L. HI TDZ 893 m. End lights red. Stopway 74 m red beyond RWY end lights. RETILS.
RWY 26L	HI flush bi-d edge, red for first 267 m from RWY end to displaced THR. HI colour coded C/L. HI TDZ 893 m. End lights red. Stopway 62 m red beyond RWY end lights. RETILS. Starter Extension: Blue edge.
RWY 08L/26R	HI flush bi-d edge with LI omni-d component. End lights red.
TWY	Green C/L (except Twy Yankee). Colour coded amber/green C/L on CAT III entry/exit taxiways to/from RWY 08R/26L. Blue edge on Twy Yankee. Illuminated red stop bars are provided where appropriate. Stop bars and guard lights at runway holding points are in operation H24.

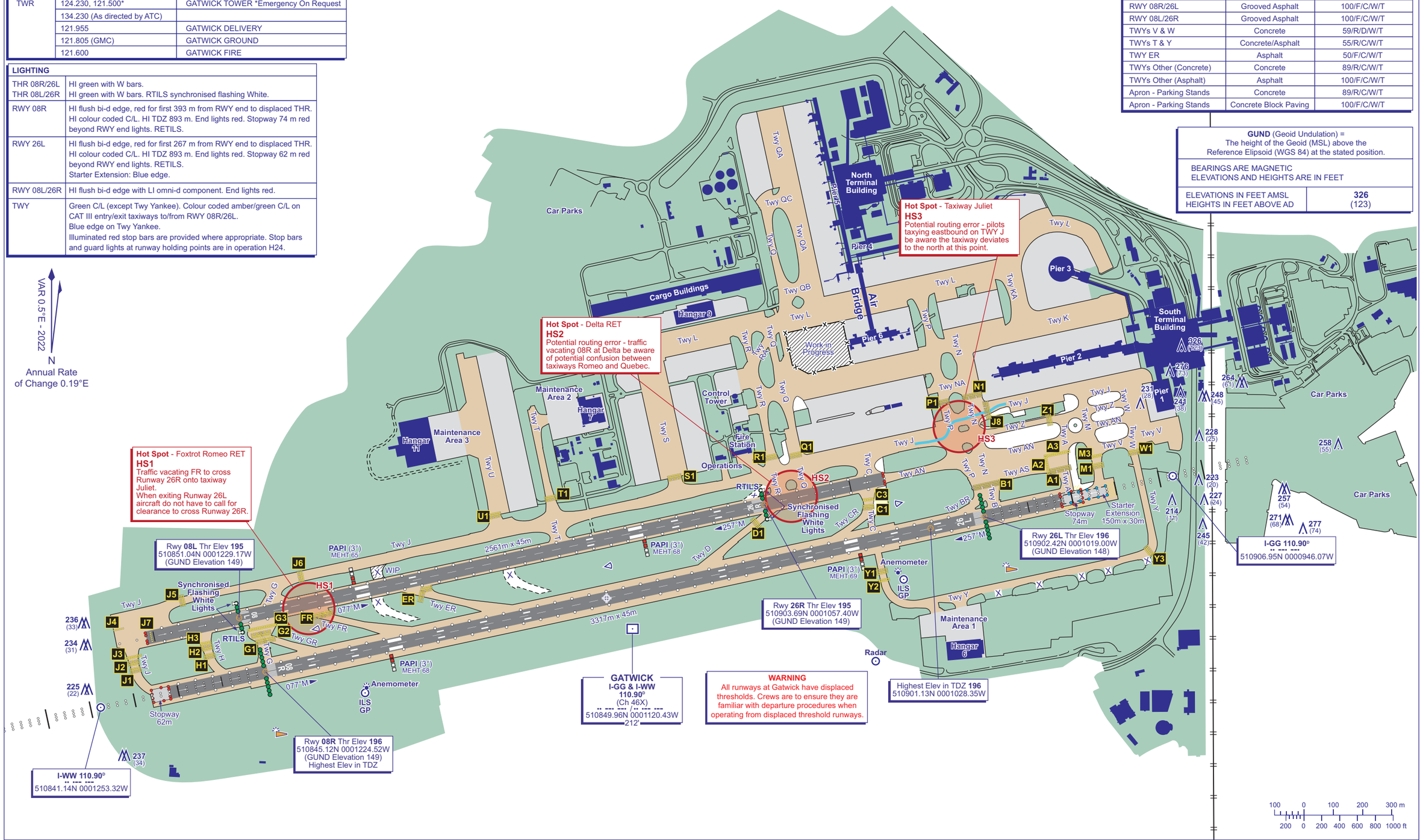
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 08R/26L	Grooved Asphalt	100/F/C/W/T
RWY 08L/26R	Grooved Asphalt	100/F/C/W/T
TWYs V & W	Concrete	59/R/D/W/T
TWYs T & Y	Concrete/Asphalt	55/R/C/W/T
TWY ER	Asphalt	50/F/C/W/T
TWYs Other (Concrete)	Concrete	89/R/C/W/T
TWYs Other (Asphalt)	Asphalt	100/F/C/W/T
Apron - Parking Stands	Concrete	89/R/C/W/T
Apron - Parking Stands	Concrete Block Paving	100/F/C/W/T

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**326** (123)

VAR 0.5°E - 2022
N
Annual Rate of Change 0.19°E



CHANGE (11/25): EDITORIAL.

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

ARP 510853N 0001125W

AD ELEV 203FT

LONDON GATWICK
EGKK

COM		
ATIS	136.525	GATWICK INFO
TWR	124.230, 121.500*	GATWICK TOWER *Emergency On Request
	134.230 (As directed by ATC)	
	121.955	GATWICK DELIVERY
	121.805 (GMC)	GATWICK GROUND
	121.600	GATWICK FIRE

VAR 0.5°E - 2022
N
Annual Rate of Change 0.19°E

WARNING
All runways at Gatwick have displaced thresholds. Crews are to ensure they are familiar with departure procedures when operating from displaced threshold runways.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 08R/26L	Grooved Asphalt	100/F/C/W/T
RWY 08L/26R	Grooved Asphalt	100/F/C/W/T
TWYs V & W	Concrete	59/R/D/W/T
TWYs T & Y	Concrete/Asphalt	55/R/C/W/T
TWY ER	Asphalt	50/F/C/W/T
TWYs Other (Concrete)	Concrete	89/R/C/W/T
TWYs Other (Asphalt)	Asphalt	100/F/C/W/T
Apron - Parking Stands	Concrete	89/R/C/W/T
Apron - Parking Stands	Concrete Block Paving	100/F/C/W/T

50 0 50 100 150 m
100 0 500 ft

Hot Spot - Delta RET
HS2
Potential routing error - traffic vacating 08R at Delta be aware of potential confusion between taxiways Romeo and Quebec.

Hot Spot - Taxiway Juliet
HS3
Potential routing error - pilots taxying eastbound on TWY J be aware the taxiway deviates to the north at this point.

CHANGE (11/25): BLAST SCREEN EDITORIAL.

AERO INFO DATE 07 AUG 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING STAND COORDINATES

LONDON GATWICK
EGKK

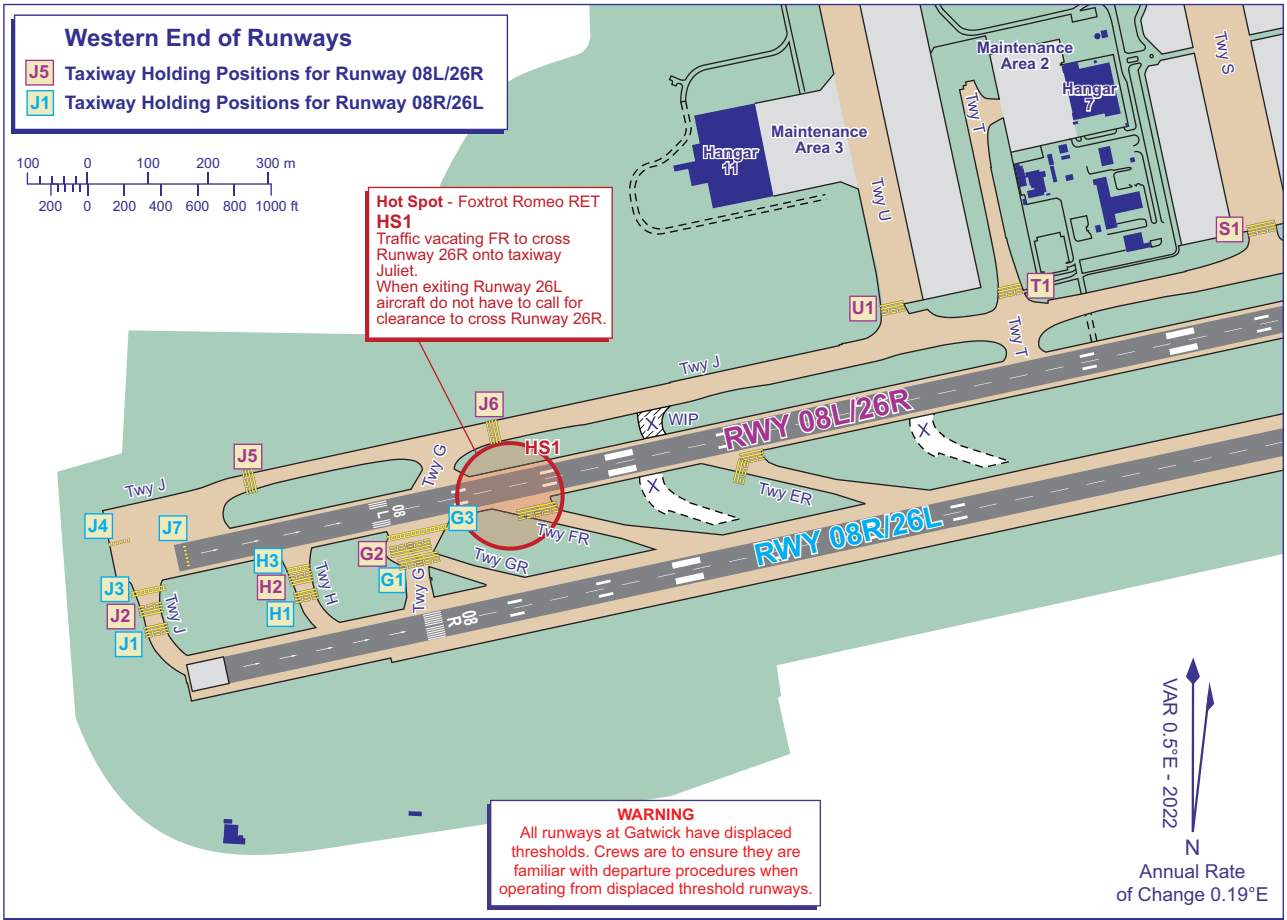
STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE
1	510917.66N 0000950.95W	46	510937.92N 0001010.99W	143L	510912.47N 0001041.35W	233L	510913.77N 0001143.21W
2	510916.14N 0000950.43W	47L	510936.39N 0001015.06W	143	510912.72N 0001040.85W	233	510913.20N 0001142.04W
3	510914.62N 0000949.90W	47	510937.45N 0001014.44W	143R	510912.68N 0001039.09W	233R	510912.50N 0001142.08W
4	510913.71N 0000948.36W	47R	510937.21N 0001012.92W	144L	510911.69N 0001045.77W	234L	510916.58N 0001144.19W
5	510914.01N 0000946.04W	48L	510933.95N 0001018.39W	144	510912.19N 0001044.62W	234	510916.10N 0001142.39W
10	510920.00N 0000955.50W	48	510935.55N 0001018.01W	144R	510911.97N 0001043.60W	234R	510915.40N 0001142.44W
11	510919.54N 0000957.65W	48R	510935.48N 0001017.53W	145	510911.72N 0001048.04W	235L	510919.39N 0001145.17W
12	510919.40N 0000959.85W	49L	510932.21N 0001021.20W	150L	510919.68N 0001104.18W	235	510918.91N 0001143.37W
13L	510922.30N 0000955.51W	49	510933.03N 0001020.47W	150	510918.86N 0001104.67W	235R	510918.21N 0001143.41W
13	510921.62N 0000956.62W	49R	510932.43N 0001019.24W	150R	510919.04N 0001106.31W	552	510928.51N 0001044.02W
13R	510922.11N 0000957.58W	50	510932.50N 0001023.59W	151	510918.35N 0001108.42W	553	510928.31N 0001045.42W
14	510919.10N 0001002.11W	51L	510931.24N 0001027.73W	152L	510918.40N 0001110.91W	554	510929.49N 0001045.20W
15	510921.19N 0001000.15W	51	510932.04N 0001027.28W	152	510917.83N 0001112.19W	555	510931.06N 0001045.30W
16	510918.77N 0001004.25W	51R	510931.75N 0001025.62W	152R	510918.41N 0001113.38W	557	510932.55N 0001045.91W
17	510920.71N 0001003.67W	52L	510930.45N 0001032.21W	153	510926.29N 0001102.52W	558	510933.46N 0001044.97W
18	510918.69N 0001006.58W	52	510931.53N 0001031.00W	154	510925.90N 0001105.11W	559	510933.90N 0001046.78W
19	510920.08N 0001008.20W	52R	510931.19N 0001030.17W	158	510924.36N 0001117.96W	560	510935.61N 0001046.28W
20	510918.40N 0001008.73W	53	510930.83N 0001035.02W	159	510924.02N 0001120.84W	561	510935.95N 0001046.18W
21	510919.57N 0001011.70W	54L	510929.51N 0001039.14W	160L	510916.28N 0001104.71W	562	510937.01N 0001047.32W
22	510917.93N 0001010.88W	54	510930.39N 0001038.73W	160	510916.92N 0001105.82W	563	510938.21N 0001046.96W
23	510919.15N 0001015.25W	54R	510930.01N 0001037.02W	160R	510917.49N 0001105.47W	564	510938.36N 0001048.27W
24	510917.78N 0001013.19W	64L	510944.48N 0001100.79W	161	510913.45N 0001103.07W	565	510940.13N 0001047.86W
25	510918.71N 0001017.26W	64	510945.33N 0001102.22W	170	510907.07N 0001120.11W	566	510940.48N 0001047.75W
27	510917.44N 0001016.84W	64R	510946.03N 0001101.86W	171L	510909.61N 0001108.99W	567	510941.53N 0001048.90W
28	510917.40N 0001015.31W	65	510942.90N 0001101.47W	171	510908.84N 0001107.29W	568	510942.74N 0001048.54W
31L	510927.86N 0001003.85W	66L	510940.14N 0001100.08W	171R	510908.28N 0001107.78W	569	510942.89N 0001049.85W
31	510928.53N 0001003.35W	66	510940.49N 0001100.64W	172L	510908.69N 0001119.23W	570	510944.66N 0001049.44W
31R	510927.85N 0001001.74W	66R	510941.53N 0001100.35W	172	510909.46N 0001120.93W	571	510945.00N 0001049.33W
32L	510927.23N 0001006.58W	67	510938.99N 0001058.78W	172R	510910.03N 0001120.43W	572	510946.06N 0001050.48W
32	510927.89N 0001006.15W	68	510938.61N 0001100.26W	173	510911.23N 0001108.12W	573	510947.26N 0001050.12W
32R	510926.89N 0001005.67W	101	510923.20N 0001036.85W	174	510911.85N 0001121.76W	574	510947.42N 0001051.42W
33L	510928.11N 0001008.80W	102	510922.87N 0001033.55W	175L	510914.38N 0001110.67W		
33	510928.49N 0001007.89W	103	510922.00N 0001032.69W	175	510913.61N 0001108.96W		
33R	510926.87N 0001009.67W	104	510921.75N 0001034.56W	175R	510913.05N 0001109.45W		
34L	510929.85N 0001009.74W	105	510921.45N 0001036.74W	176L	510913.47N 0001120.90W		
34	510929.65N 0001008.57W	106	510921.08N 0001039.42W	176	510914.23N 0001122.59W		
34R	510929.17N 0001010.54W	107	510920.78N 0001041.59W	176R	510914.79N 0001122.06W		
35L	510931.42N 0001008.77W	112	510922.43N 0001042.39W	177	510916.00N 0001109.79W		
35	510930.84N 0001007.99W	113	510922.91N 0001040.20W	178L	To be surveyed		
35R	510931.25N 0001009.98W	130	510915.96N 0001030.73W	178	510917.02N 0001122.95W		
36L	510932.25N 0001006.20W	131	510915.54N 0001033.77W	178R	To be surveyed		
36	510931.50N 0001006.29W	132	510915.09N 0001037.01W	180	510919.06N 0001122.87W		
36R	510932.51N 0001007.44W	133	510914.70N 0001039.87W	180R	To be surveyed		
37	510931.30N 0001004.31W	134	510914.29N 0001042.91W	230L	510905.33N 0001140.27W		
38	510930.31N 0001003.21W	135	510913.89N 0001045.80W	230	510904.76N 0001139.09W		
41	510926.89N 0001018.60W	136	510913.82N 0001048.46W	230R	510904.06N 0001139.14W		
41E	510925.56N 0001016.98W	140	510914.15N 0001030.05W	231L	510908.14N 0001141.24W		
41W	510925.19N 0001019.69W	141L	510913.23N 0001034.24W	231	510907.57N 0001140.08W		
42	510925.90N 0001021.89W	141	510913.73N 0001033.46W	231R	510906.87N 0001140.12W		
43	510925.94N 0001025.55W	141R	510913.64N 0001032.12W	232L	510910.95N 0001142.23W		
43E	510924.71N 0001023.17W	142	510913.23N 0001037.25W	232	510910.38N 0001141.05W		
43W	510924.34N 0001025.89W	142R	510912.97N 0001036.76W	232R	510909.69N 0001141.10W		

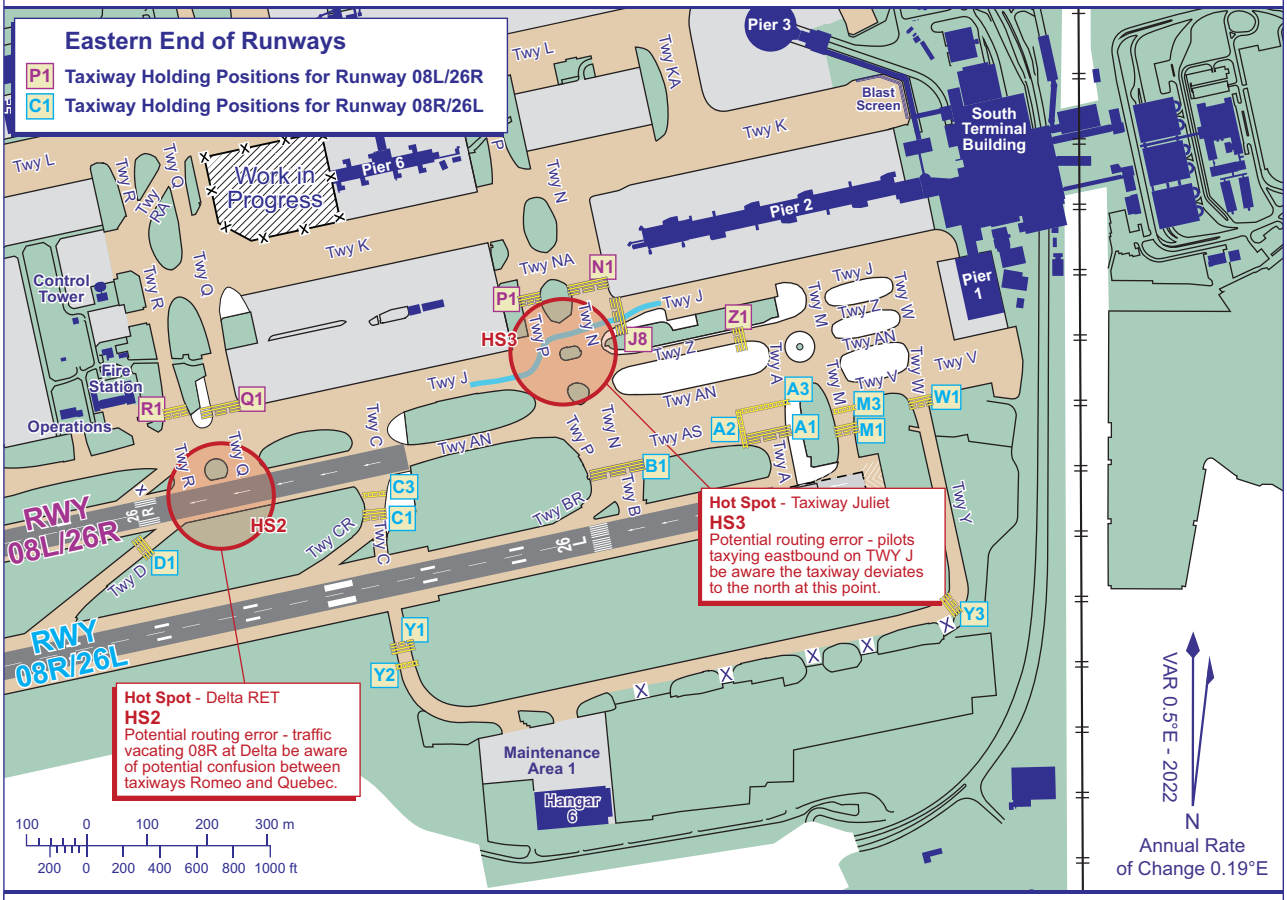
CHANGE (7/25): STANDS 178L, 178R & 180R ADDED.

GROUND MOVEMENT CHART - ICAO

HOLDING AREAS

LONDON GATWICK
EGKK





CHANGE (11/25): EDITORIAL.

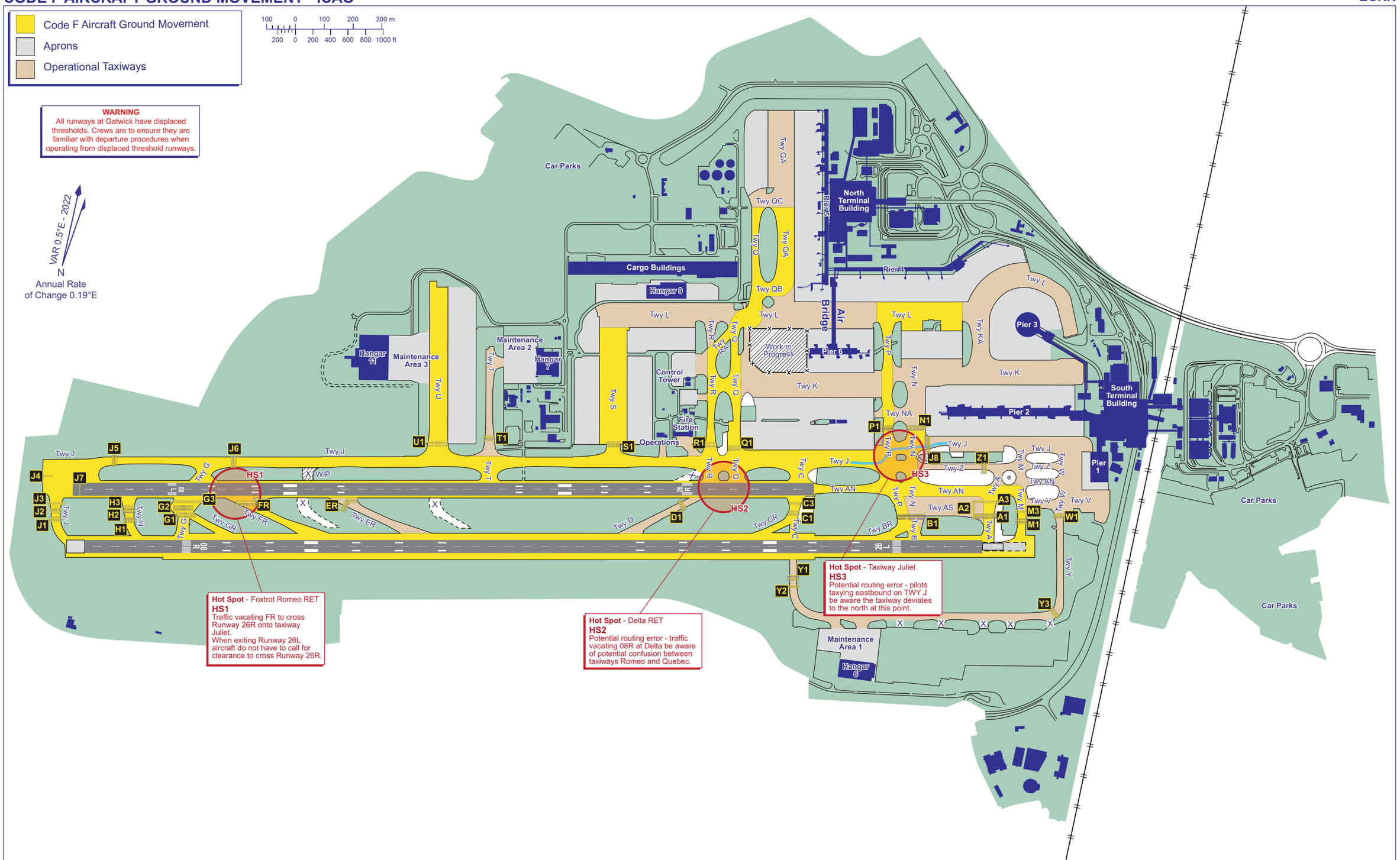
AERO INFO DATE 06 AUG 25

AERODROME CHART
CODE F AIRCRAFT GROUND MOVEMENT - ICAO

ARP 510853N 0001125W

AD ELEV 203FT

LONDON GATWICK
EGKK



CHANGE (11/25): EDITORIAL.

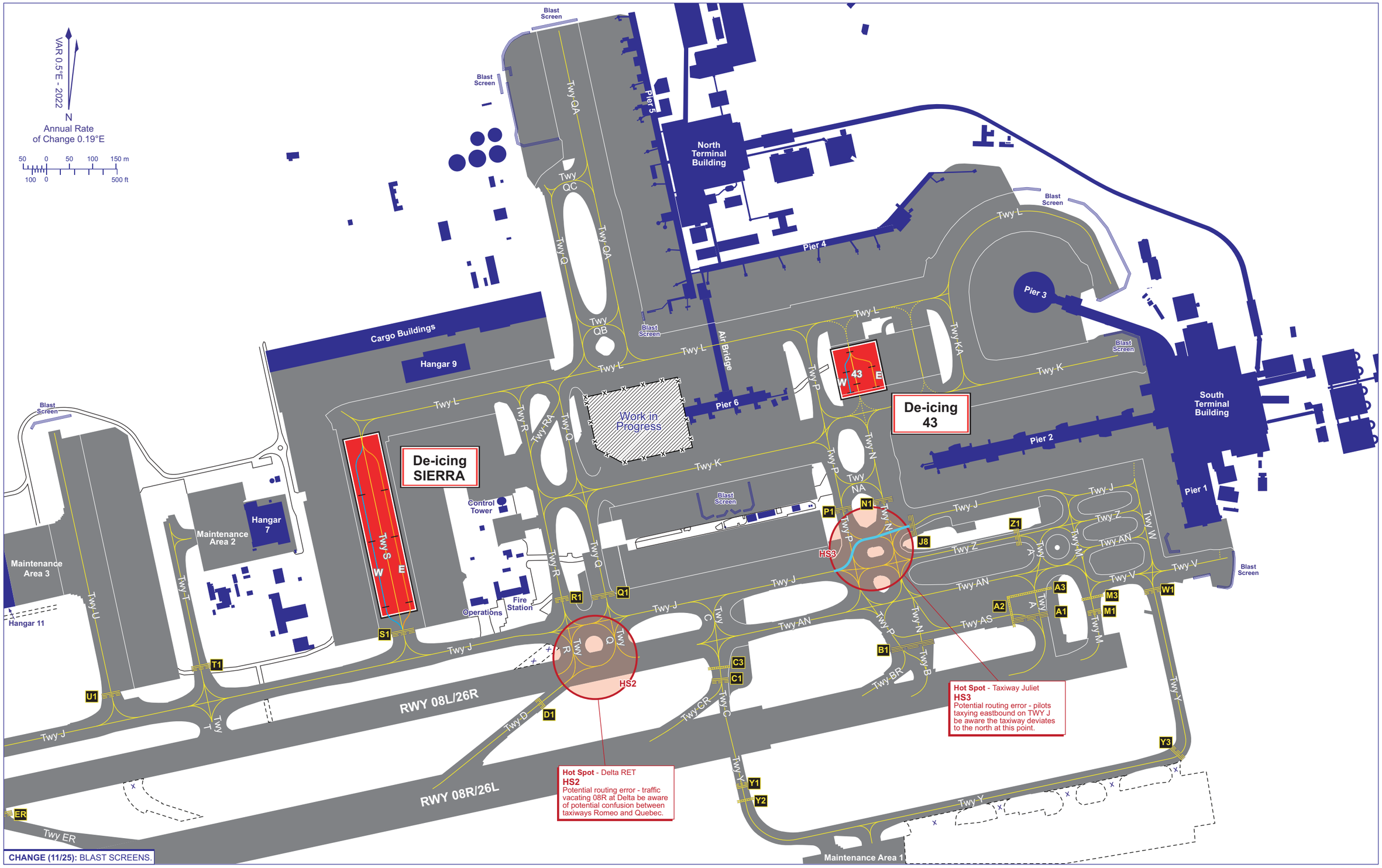
AERO INFO DATE 06 AUG 25

AIRCRAFT GROUND MOVEMENT - REMOTE DE-ICING AREAS LOCATION CHART - ICAO

ARP 510853N 0001125W

AD ELEV 203FT

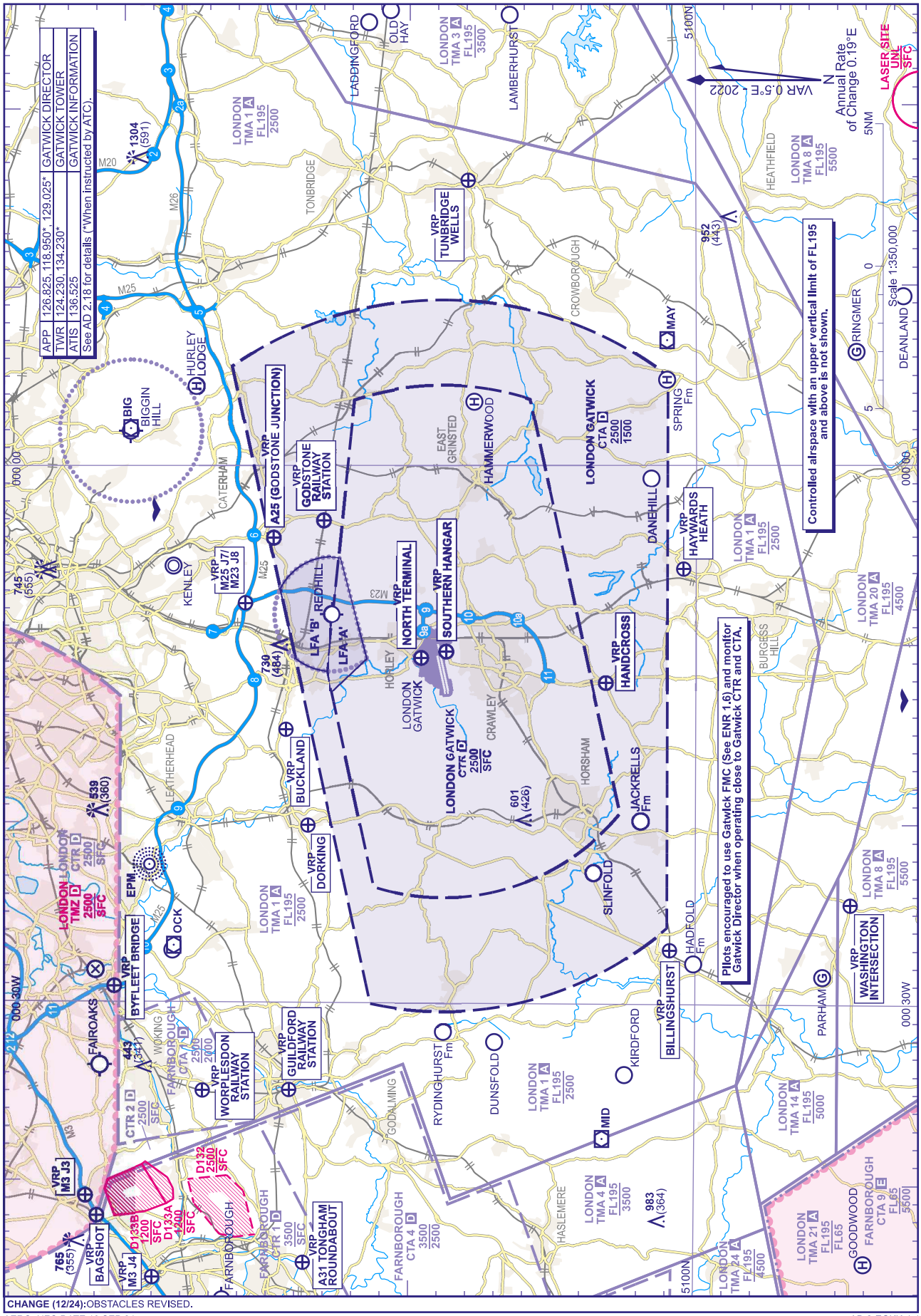
LONDON GATWICK
EGKK



CHANGE (11/25): BLAST SCREENS.

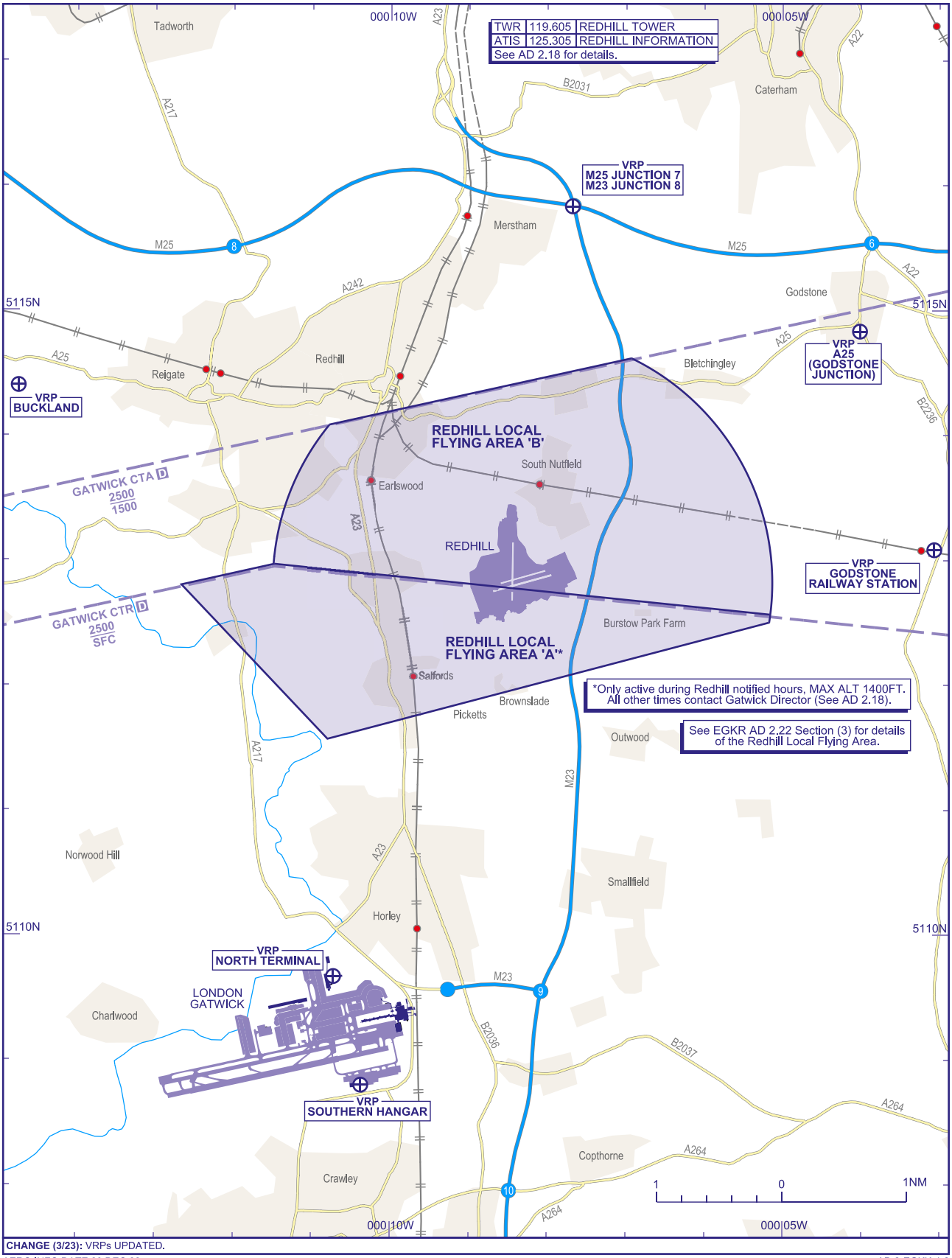
AERO INFO DATE 20 AUG 25

CONTROL ZONE AND CONTROL AREA CHART — LONDON GATWICK



REDHILL LOCAL FLYING AREA

LONDON GATWICK



CHANGE (3/23): VRPs UPDATED.

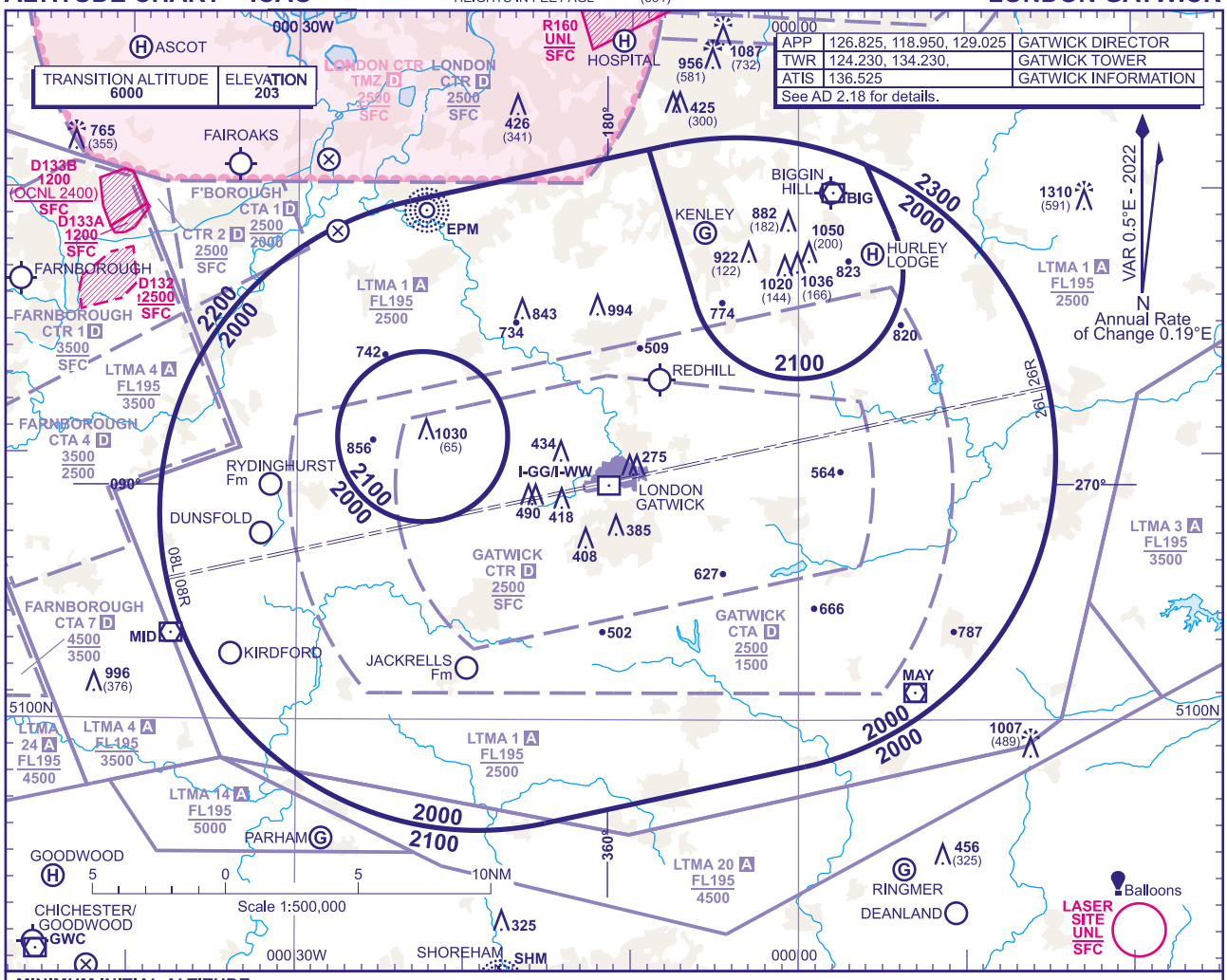
AERO INFO DATE 20 DEC 22

AD 2-EGKK-4-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1310
HEIGHTS IN FEET AGL (591)

LONDON GATWICK



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2000** in the sector defined by the lateral limits; 511931N 0002318W - 512129N 0000900W - 511548N 0000613W thence anticlockwise by an arc of a circle radius 4NM centred on 511651N 0000005W to 511829N 0000545E - 512055N 0000403E thence clockwise by an arc of a circle radius 12NM centred on 510957N 0000339W to 505815N 0000023E - 505607N 0001505W thence clockwise by an arc of a circle radius 12NM centred on 510749N 0001910W to 511931N 0002318W.

b) **2100** in the sector defined by the lateral limits; 512129N 0000900W - 512140N 0000742W thence clockwise by an arc of a circle radius 12NM centred on 510957N 0000339W to 512055N 0000403E - 511829N 0000545E thence clockwise by an arc of a circle radius 4NM centred on 511651N 0000005W - 511548N 0000613W - 512129N 0000900W.

c) **2100** in the sector defined by the lateral limits; a circle centred on 511038.93N 0002230.29W with a radius of 3.2NM.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher, to **MAY VOR**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **MAY VOR**†.

†In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4 or the special procedure for the Gatwick Control Zone detailed at EGKK AD 2.22.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart may only be used for cross-checking of altitudes assigned while under ATC Surveillance control.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 29 JAN 25

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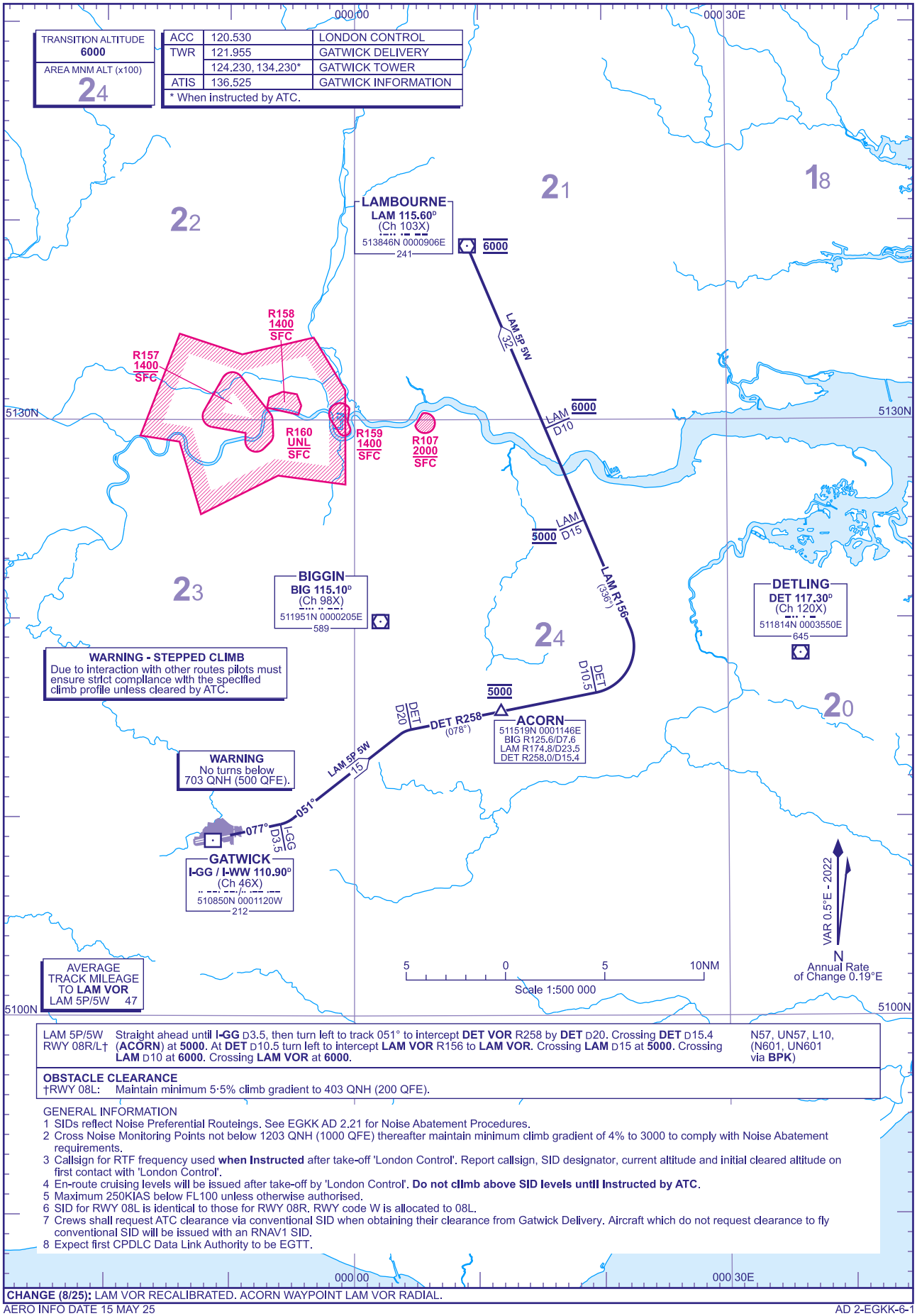
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R/L
LAM 5P 5W



LAM 5P/5W RWY 08R/L†	Straight ahead until **I-GG** D3.5, then turn left to track 051° to intercept **DET VOR** R258 by **DET** D20. Crossing **DET** D15.4 (**ACORN**) at **5000**. At **DET** D10.5 turn left to intercept **LAM VOR** R156 to **LAM VOR**. Crossing **LAM** D15 at **5000**. Crossing **LAM** D10 at **6000**. Crossing **LAM VOR** at **6000**.	N57, UN57, L10, (N601, UN601 via **BPK**)

OBSTACLE CLEARANCE
†RWY 08L: Maintain minimum 5·5% climb gradient to 403 QNH (200 QFE).

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 for Noise Abatement Procedures.
2 Cross Noise Monitoring Points not below 1203 QNH (1000 QFE) thereafter maintain minimum climb gradient of 4% to 3000 to comply with Noise Abatement requirements.
3 Callsign for RTF frequency used **when Instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4 En-route cruising levels will be issued after take-off by 'London Control'. **Do not climb above SID levels until Instructed by ATC.**
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 SID for RWY 08L is identical to those for RWY 08R. RWY code W is allocated to 08L.
7 Crews shall request ATC clearance via conventional SID when obtaining their clearance from Gatwick Delivery. Aircraft which do not request clearance to fly conventional SID will be issued with an RNAV1 SID.
8 Expect first CPDLC Data Link Authority to be EGTT.

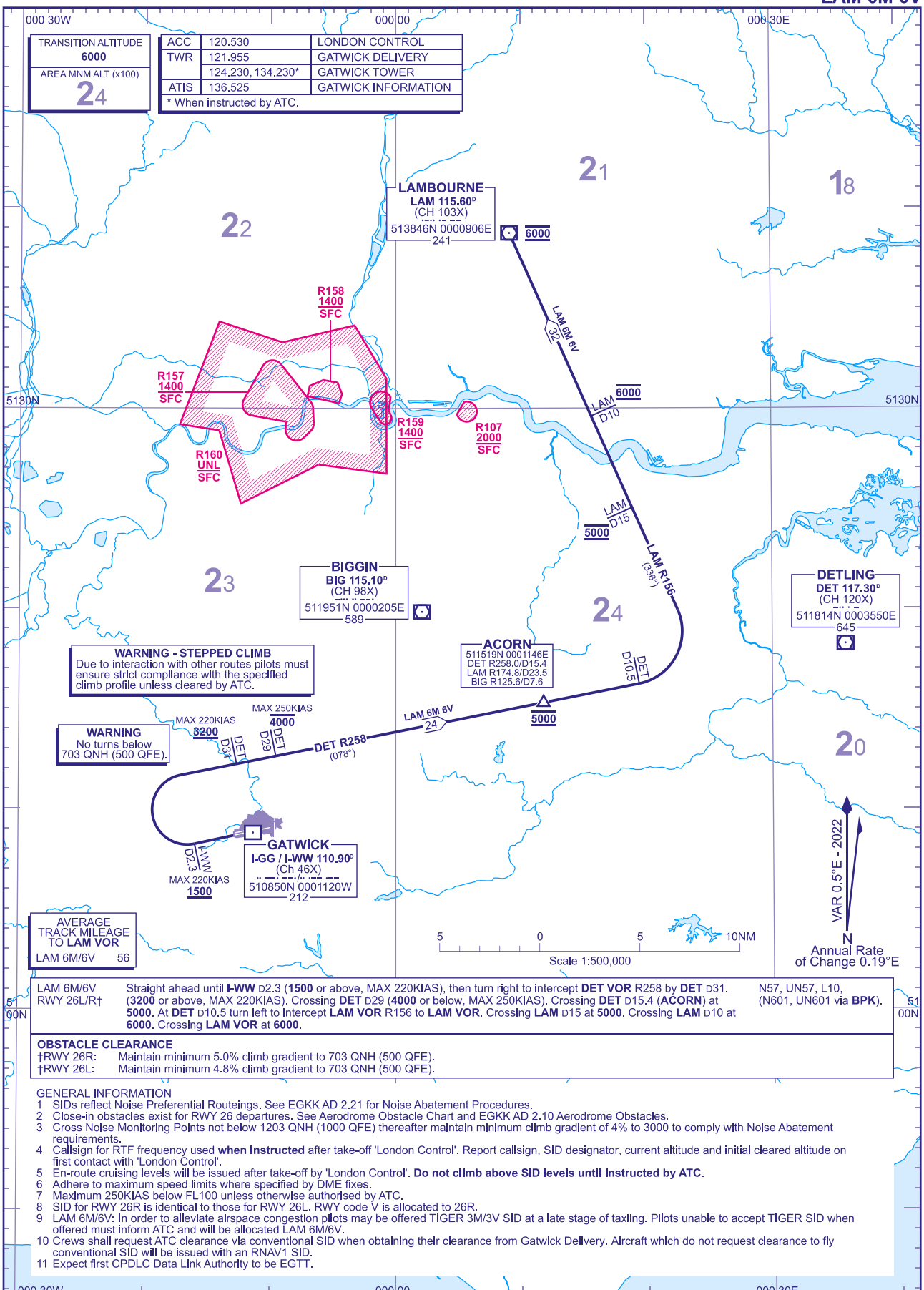
CHANGE (8/25): LAM VOR RECALIBRATED. ACORN WAYPOINT LAM VOR RADIAL.

AERO INFO DATE 15 MAY 25
AD 2-EGKK-6-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK
RWY 26L/R
LAM 6M 6V



LAM 6M/6V RWY 26L/R†	Straight ahead until **I-WW** D2.3 (**1500** or above, MAX 220KIAS), then turn right to intercept **DET VOR** R258 by **DET** D31. (**3200** or above, MAX 220KIAS). Crossing **DET** D29 (**4000** or below, MAX 250KIAS). Crossing **DET** D15.4 (**ACORN**) at **5000**. At **DET** D10.5 turn left to intercept **LAM VOR** R156 to **LAM VOR**. Crossing **LAM** D15 at **5000**. Crossing **LAM** D10 at **6000**. Crossing **LAM VOR** at **6000**.	N57, UN57, L10, (N601, UN601 via **BPK**).

OBSTACLE CLEARANCE
†RWY 26R: Maintain minimum 5.0% climb gradient to 703 QNH (500 QFE).
†RWY 26L: Maintain minimum 4.8% climb gradient to 703 QNH (500 QFE).

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 for Noise Abatement Procedures.
2 Close-in obstacles exist for RWY 26 departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
3 Cross Noise Monitoring Points not below 1203 QNH (1000 QFE) thereafter maintain minimum climb gradient of 4% to 3000 to comply with Noise Abatement requirements.
4 Callsign for RTF frequency used **when Instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
5 En-route cruising levels will be issued after take-off by 'London Control'. **Do not climb above SID levels until instructed by ATC.**
6 Adhere to maximum speed limits where specified by DME fixes.
7 Maximum 250KIAS below FL100 unless otherwise authorised by ATC.
8 SID for RWY 26R is identical to those for RWY 26L. RWY code V is allocated to 26R.
9 LAM 6M/6V: In order to alleviate airspace congestion pilots may be offered TIGER 3M/3V SID at a late stage of taxiing. Pilots unable to accept TIGER SID when offered must inform ATC and will be allocated LAM 6M/6V.
10 Crews shall request ATC clearance via conventional SID when obtaining their clearance from Gatwick Delivery. Aircraft which do not request clearance to fly conventional SID will be issued with an RNAV1 SID.
11 Expect first CPDLC Data Link Authority to be EGTT.

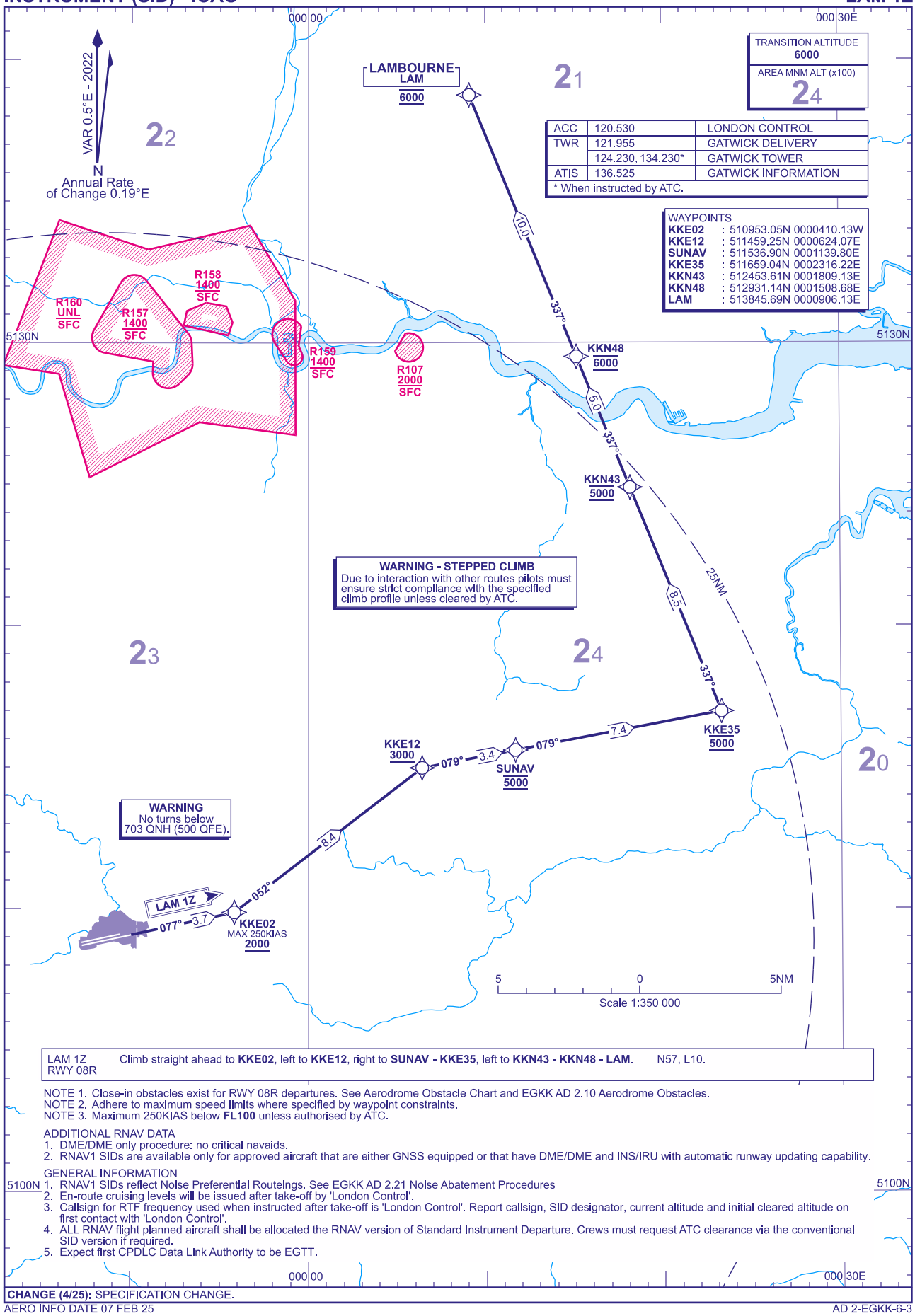
CHANGE (10/25): MAG HEADING CORRECTION.

AERO INFO DATE 16 JUL 25 AD 2-EGKK-6-2

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R
LAM 1Z



LAM 1Z RWY 08R — Climb straight ahead to **KKE02**, left to **KKE12**, right to **SUNAV - KKE35**, left to **KKN43 - KKN48 - LAM**. N57, L10.

NOTE 1. Close-in obstacles exist for RWY 08R departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
NOTE 2. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 Noise Abatement Procedures
2. En-route cruising levels will be issued after take-off by 'London Control'.
3. Callsign for RTF frequency used when instructed after take-off is 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4. ALL RNAV flight planned aircraft shall be allocated the RNAV version of Standard Instrument Departure. Crews must request ATC clearance via the conventional SID version if required.
5. Expect first CPDLC Data Link Authority to be EGTT.

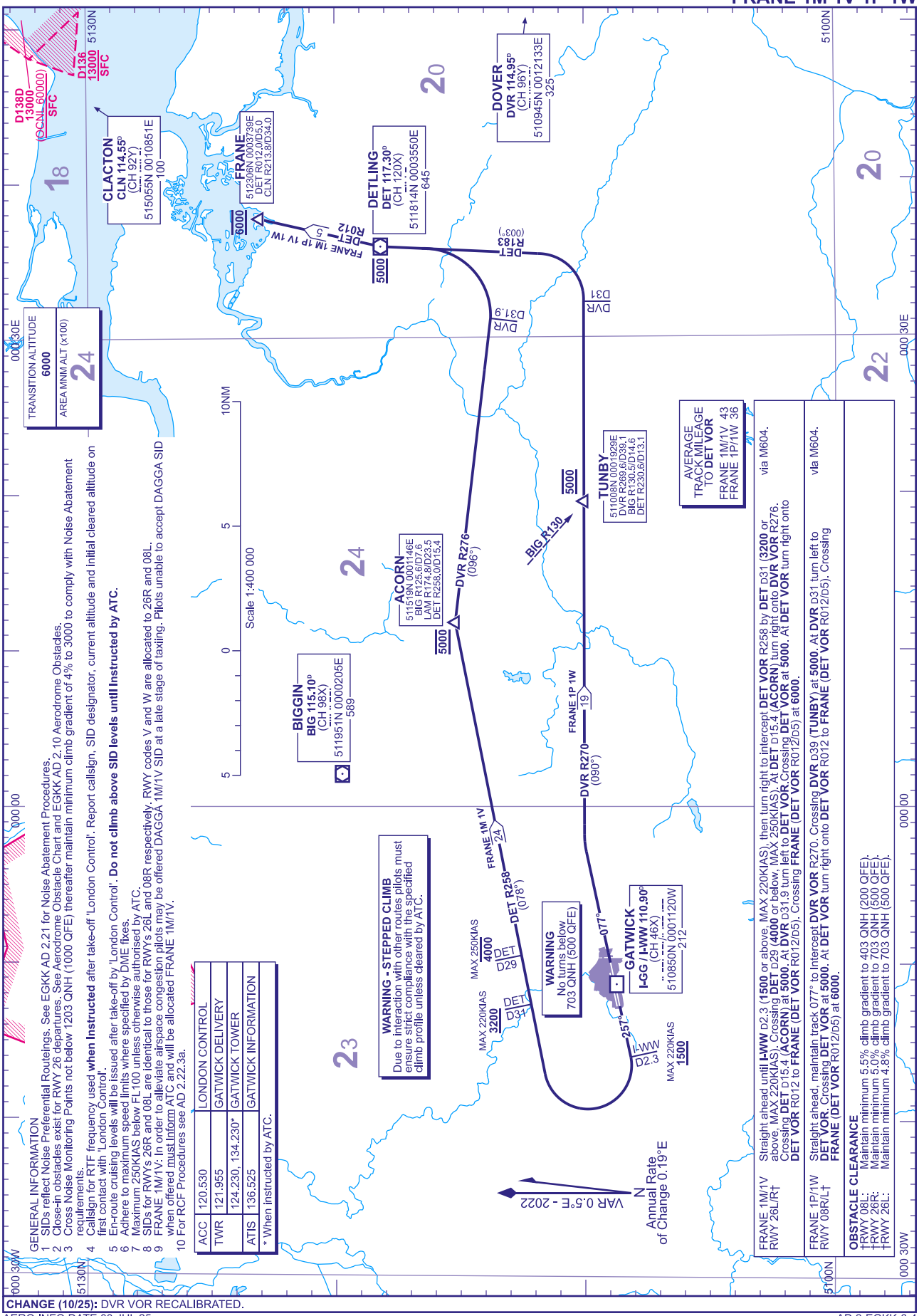
CHANGE (4/25): SPECIFICATION CHANGE.

AERO INFO DATE 07 FEB 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK
RWY 08R/L 26L/R
FRANE 1M 1V 1P 1W



GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 for Noise Abatement Procedures.
2 Close-in obstacles exist for RWY 26 departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
3 Cross Noise Monitoring Points not below 1203 QNH (1000 QFE) thereafter maintain minimum climb gradient of 4% to 3000 to comply with Noise Abatement requirements.
4 Callsign for RTF frequency used **when Instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
5 En-route cruising levels will be issued after take-off by 'London Control'. **Do not climb above SID levels until Instructed by ATC.**
6 Adhere to maximum speed limits where specified by DME fixes.
7 Maximum 250KIAS below FL100 unless otherwise authorised by ATC.
8 SIDs for RWYs 26R and 08L are identical to those for RWYs 26L and 08R respectively. RWY codes V and W are allocated to 26R and 08L.
9 FRANE 1M/1V: In order to alleviate airspace congestion pilots may be offered DAGGA 1M/1V SID at a late stage of taxiing. Pilots unable to accept DAGGA SID when offered must Inform ATC and will be allocated FRANE 1M/1V.
10 For RCF Procedures see AD 2.22.3a.

ACC	120.530	LONDON CONTROL
TWR	121.955	GATWICK DELIVERY
	124.230, 134.230*	GATWICK TOWER
ATIS	136.525	GATWICK INFORMATION

* When instructed by ATC.

FRANE 1M/1V RWY 26L/R†	Straight ahead until **I-WW** D2.3 (**1500** or above, MAX 220KIAS), then turn right to intercept **DET VOR** R258 by **DET** D31 (**3200** or above, MAX 220KIAS). Crossing **DET** D29 (**4000** or below, MAX 250KIAS). At **DET** D15.4 (**ACORN**) turn right onto **DVR VOR** R276. Crossing **DET** D15.4 at **5000**. At **DVR** D31.9 turn left to **DET VOR**. Crossing **DET** D31 at **5000**. At **DET VOR** turn right onto **DET VOR** R012 to **FRANE** (**DET VOR** R012/D5) at **6000**. Crossing **FRANE** (**DET VOR** R012/D5) via M604.
FRANE 1P/1W RWY 08R/L†	Straight ahead, maintain track 077° to Intercept **DVR VOR** R270. Crossing **DVR** D39 (**TUNBY**) at **5000**. At **DVR** D31 turn left to **DET VOR**. Crossing **DET VOR** at **5000**. At **DET VOR** turn right onto **DET VOR** R012 to **FRANE** (**DET VOR** R012/D5). Crossing **FRANE** (**DET VOR** R012/D5) at **6000**. via M604.

OBSTACLE CLEARANCE
†RWY 08L: Maintain minimum 5.5% climb gradient to 403 QNH (200 QFE).
†RWY 26R: Maintain minimum 5.0% climb gradient to 703 QNH (500 QFE).
†RWY 26L: Maintain minimum 4.8% climb gradient to 703 QNH (500 QFE).

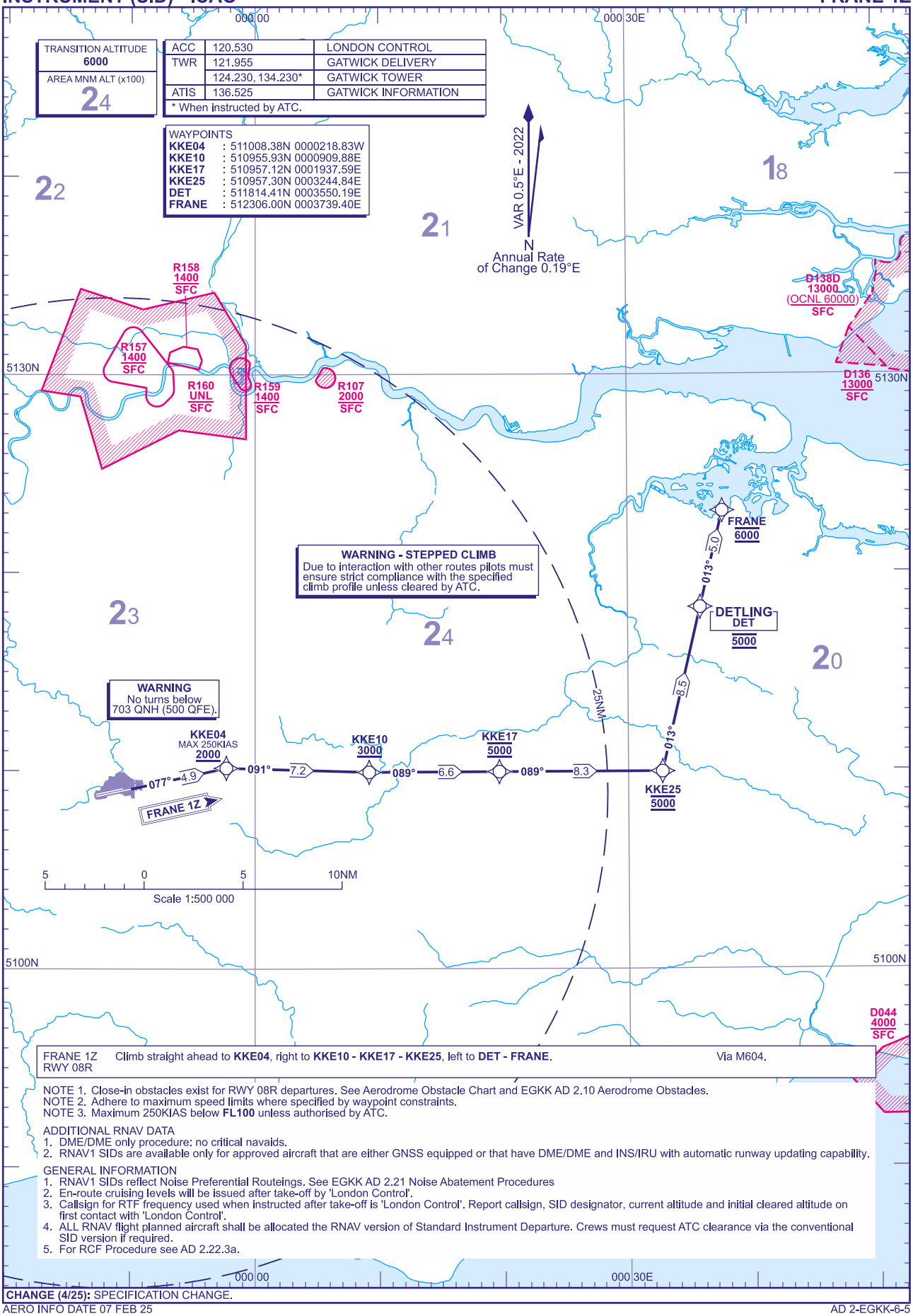
CHANGE (10/25): DVR VOR RECALIBRATED.

AERO INFO DATE 03 JUL 25

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R
FRANE 1Z



CHANGE (4/25): SPECIFICATION CHANGE.

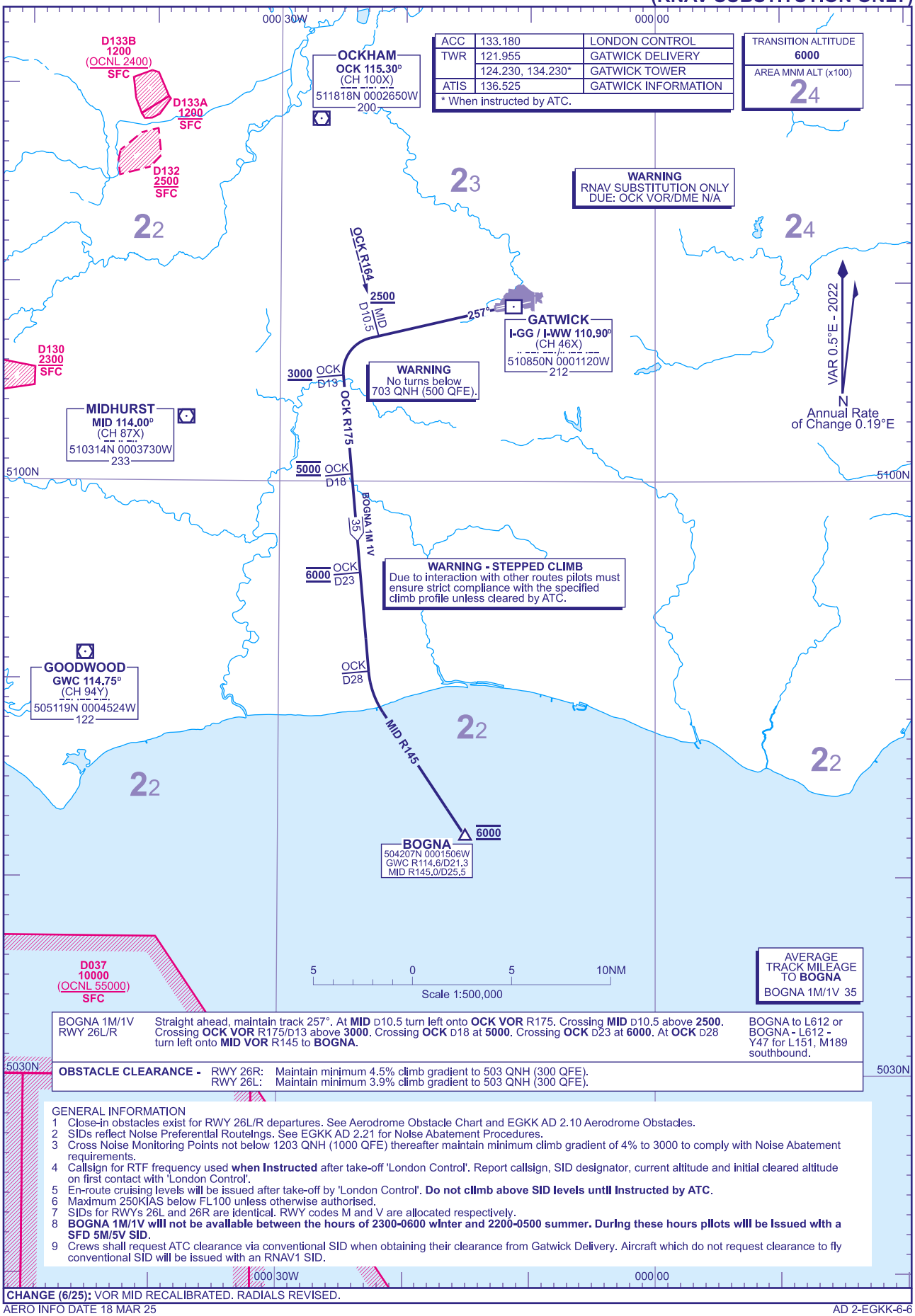
AERO INFO DATE 07 FEB 25

AD 2-EGKK-6-5

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK
RWY 26L/R **BOGNA 1M 1V**
(RNAV SUBSTITUTION ONLY)



BOGNA 1M/1V RWY 26L/R	Straight ahead, maintain track 257°. At **MID** D10.5 turn left onto **OCK VOR** R175. Crossing **MID** D10.5 above **2500**. Crossing **OCK VOR** R175/D13 above **3000**. Crossing **OCK** D18 at **5000**. Crossing **OCK** D23 at **6000**. At **OCK** D28 turn left onto **MID VOR** R145 to **BOGNA**.	BOGNA to L612 or BOGNA - L612 - Y47 for L151, M189 southbound.
OBSTACLE CLEARANCE -	RWY 26R: Maintain minimum 4.5% climb gradient to 503 QNH (300 QFE). RWY 26L: Maintain minimum 3.9% climb gradient to 503 QNH (300 QFE).	

GENERAL INFORMATION
1 Close-in obstacles exist for RWY 26L/R departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 for Noise Abatement Procedures.
3 Cross Noise Monitoring Points not below 1203 QNH (1000 QFE) thereafter maintain minimum climb gradient of 4% to 3000 to comply with Noise Abatement requirements.
4 Callsign for RTF frequency used **when Instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
5 En-route cruising levels will be issued after take-off by 'London Control'. **Do not climb above SID levels until instructed by ATC.**
6 Maximum 250KIAS below FL100 unless otherwise authorised.
7 SIDs for RWYs 26L and 26R are identical. RWY codes M and V are allocated respectively.
8 **BOGNA 1M/1V will not be available between the hours of 2300-0600 winter and 2200-0500 summer. During these hours pilots will be issued with a SFD 5M/5V SID.**
9 Crews shall request ATC clearance via conventional SID when obtaining their clearance from Gatwick Delivery. Aircraft which do not request clearance to fly conventional SID will be issued with an RNAV1 SID.

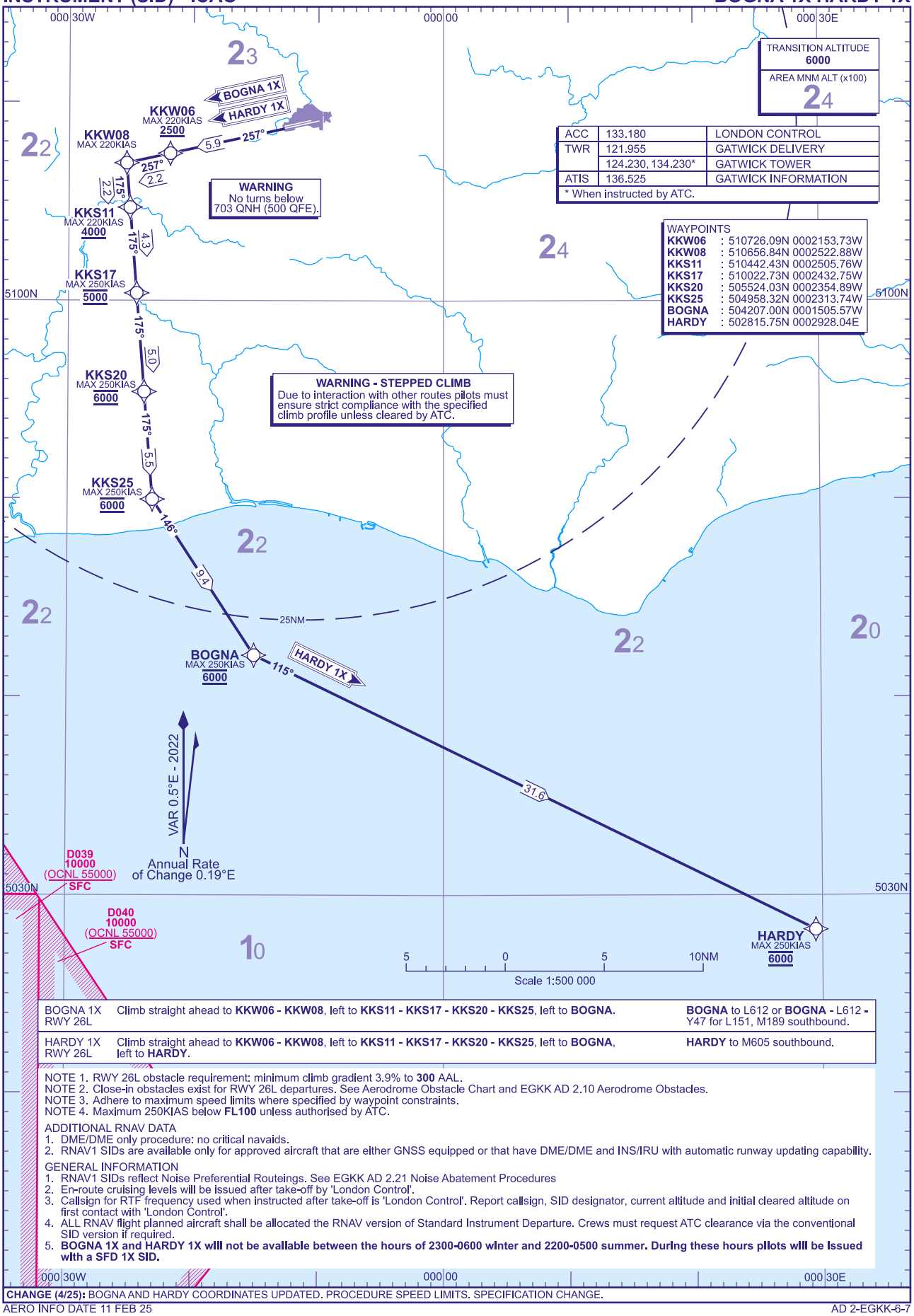
CHANGE (6/25): VOR MID RECALIBRATED. RADIALS REVISED.

AERO INFO DATE 18 MAR 25
AD 2-EGKK-6-6

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 26L
BOGNA 1X HARDY 1X



BOGNA 1X RWY 26L	Climb straight ahead to **KKW06 - KKW08**, left to **KKS11 - KKS17 - KKS20 - KKS25**, left to **BOGNA**.	**BOGNA** to L612 or **BOGNA -** L612 **-** Y47 for L151, M189 southbound.
HARDY 1X RWY 26L	Climb straight ahead to **KKW06 - KKW08**, left to **KKS11 - KKS17 - KKS20 - KKS25**, left to **BOGNA**, left to **HARDY**.	**HARDY** to M605 southbound.

NOTE 1. RWY 26L obstacle requirement: minimum climb gradient 3.9% to **300** AAL.
NOTE 2. Close-in obstacles exist for RWY 26L departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 Noise Abatement Procedures
2. En-route cruising levels will be issued after take-off by 'London Control'.
3. Callsign for RTF frequency used when instructed after take-off is 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4. ALL RNAV flight planned aircraft shall be allocated the RNAV version of Standard Instrument Departure. Crews must request ATC clearance via the conventional SID version if required.
5. **BOGNA 1X and HARDY 1X will not be available between the hours of 2300-0600 winter and 2200-0500 summer. During these hours pilots will be issued with a SFD 1X SID.**

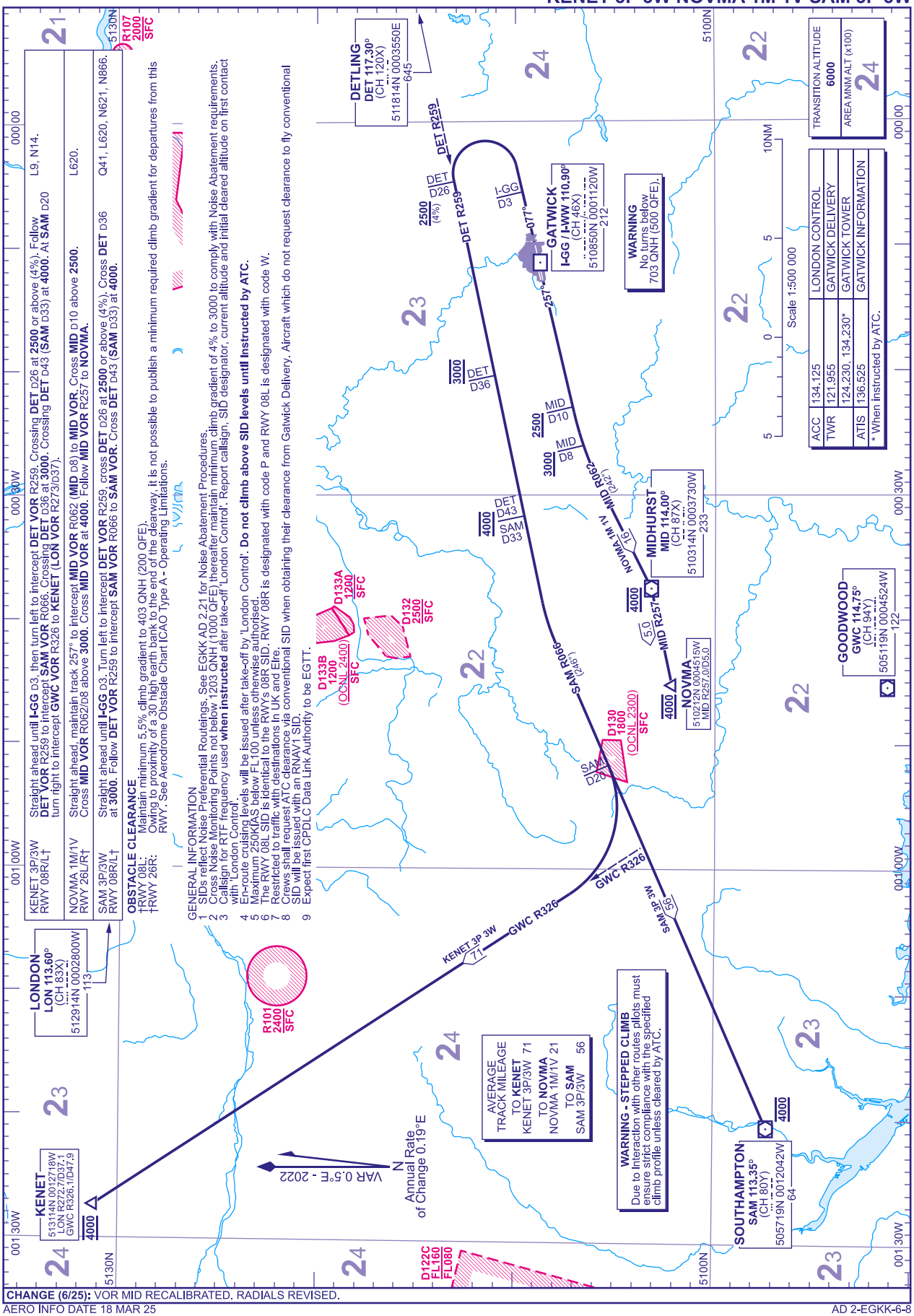
CHANGE (4/25): BOGNA AND HARDY COORDINATES UPDATED. PROCEDURE SPEED LIMITS. SPECIFICATION CHANGE.

AERO INFO DATE 11 FEB 25
AD 2-EGKK-6-7

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK
RWY 08R/L 26L/R
KENET 3P 3W NOVMA 1M 1V SAM 3P 3W

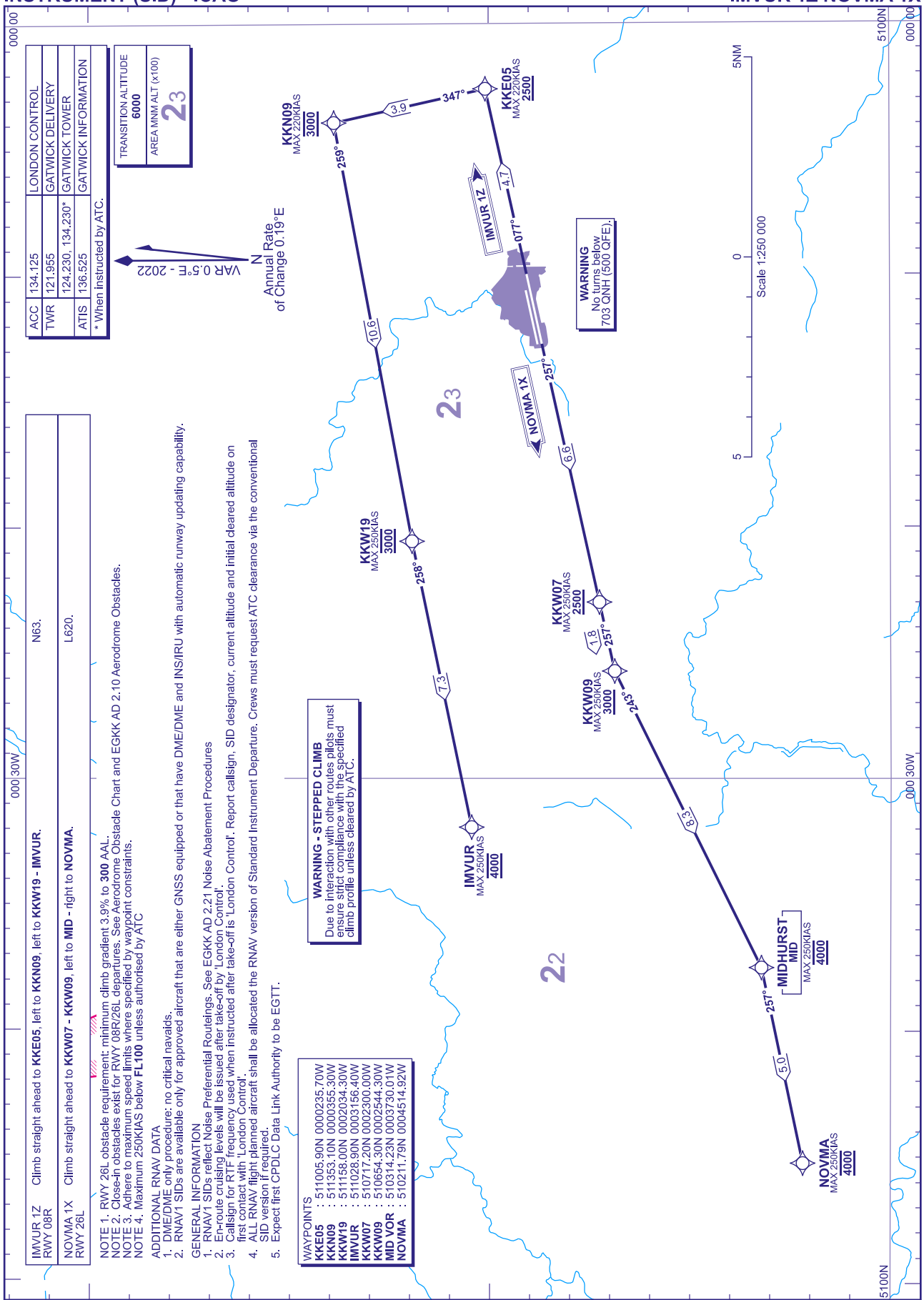


CHANGE (6/25): VOR MID RECALIBRATED. RADIALS REVISED.
AERO INFO DATE 18 MAR 25

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R 26L
IMVUR 1Z NOVMA 1X



IMVUR 1Z RWY 08R	Climb straight ahead to **KKE05**, left to **KKN09**, left to **KKW19 - IMVUR**.	N63.
NOVMA 1X RWY 26L	Climb straight ahead to **KKW07 - KKW09**, left to **MID** - right to **NOVMA**.	L620.

NOTE 1. RWY 26L obstacle requirement: minimum climb gradient 3.9% to **300** AAL.
NOTE 2. Close-in obstacles exist for RWY 08R/26L departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 Noise Abatement Procedures
2. En-route cruising levels will be issued after take-off by 'London Control'.
3. Callsign for RTF frequency used when instructed after take-off is 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4. ALL RNAV flight planned aircraft shall be allocated the RNAV version of Standard Instrument Departure. Crews must request ATC clearance via the conventional SID version if required.
5. Expect first CPDLC Data Link Authority to be EGTT.

WAYPOINTS

KKE05	: 511005.90N 0000235.70W
KKN09	: 511353.10N 0000355.30W
KKW19	: 511158.00N 0002034.30W
IMVUR	: 511028.90N 0003156.40W
KKW07	: 510717.20N 0002300.00W
KKW09	: 510654.30N 0002544.30W
MID VOR	: 510314.23N 0003730.01W
NOVMA	: 510211.79N 0004514.92W

CHANGE (4/25): SPEED LIMITS. NOVMA CO-ORDINATES CORRECTED. SPECIFICATION CHANGE.

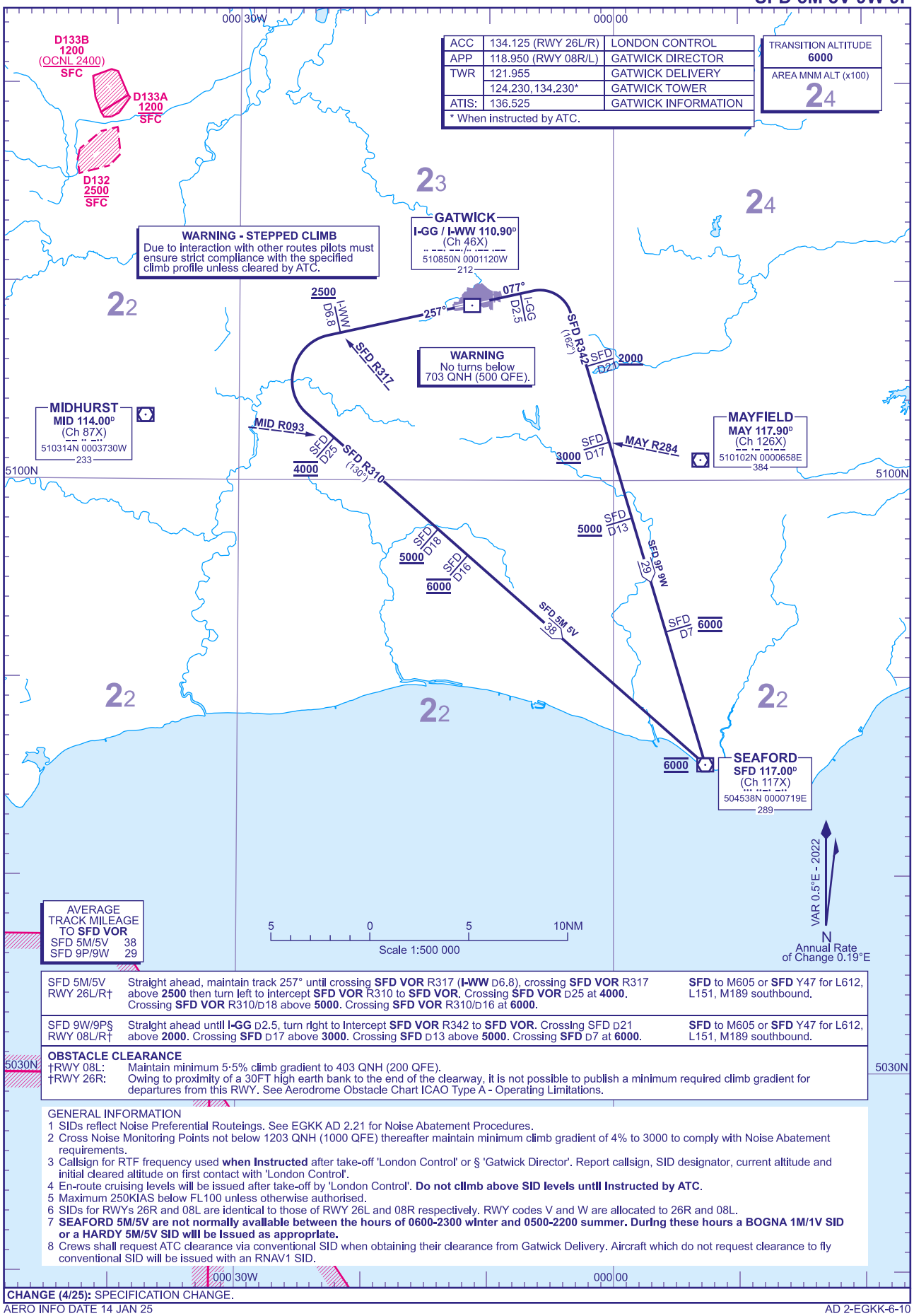
AERO INFO DATE 07 FEB 25

AD 2-EGKK-6-9

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R/L 26L/R
SFD 5M 5V 9W 9P



SFD 5M/5V RWY 26L/R†	Straight ahead, maintain track 257° until crossing **SFD VOR** R317 (**I-WW** D6.8), crossing **SFD VOR** R317 above **2500** then turn left to intercept **SFD VOR** R310 to **SFD VOR**. Crossing **SFD VOR** D25 at **4000**. Crossing **SFD VOR** R310/D18 above **5000**. Crossing **SFD VOR** R310/D16 at **6000**.	**SFD** to M605 or **SFD** Y47 for L612, L151, M189 southbound.
SFD 9W/9P§ RWY 08L/R†	Straight ahead until **I-GG** D2.5, turn right to Intercept **SFD VOR** R342 to **SFD VOR**. Crossing SFD D21 above **2000**. Crossing **SFD** D17 above **3000**. Crossing **SFD** D13 above **5000**. Crossing **SFD** D7 at **6000**.	**SFD** to M605 or **SFD** Y47 for L612, L151, M189 southbound.

OBSTACLE CLEARANCE
†RWY 08L: Maintain minimum 5·5% climb gradient to 403 QNH (200 QFE).
†RWY 26R: Owing to proximity of a 30FT high earth bank to the end of the clearway, it is not possible to publish a minimum required climb gradient for departures from this RWY. See Aerodrome Obstacle Chart ICAO Type A - Operating Limitations.

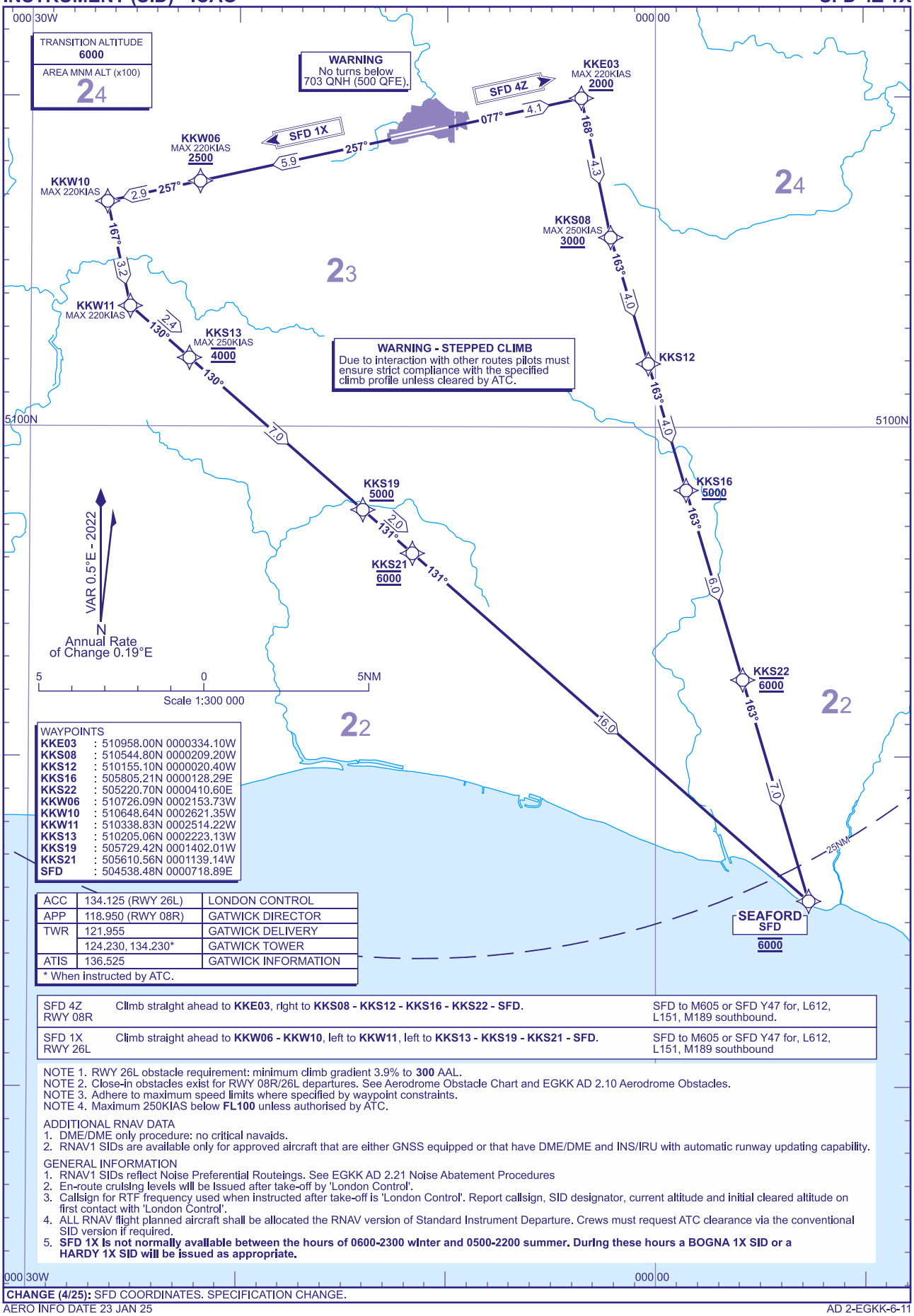
GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 for Noise Abatement Procedures.
2 Cross Noise Monitoring Points not below 1203 QNH (1000 QFE) thereafter maintain minimum climb gradient of 4% to 3000 to comply with Noise Abatement requirements.
3 Callsign for RTF frequency used **when Instructed** after take-off 'London Control' or § 'Gatwick Director'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4 En-route cruising levels will be issued after take-off by 'London Control'. **Do not climb above SID levels until Instructed by ATC.**
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 SIDs for RWYs 26R and 08L are identical to those of RWY 26L and 08R respectively. RWY codes V and W are allocated to 26R and 08L.
7 **SEAFORD 5M/5V are not normally available between the hours of 0600-2300 winter and 0500-2200 summer. During these hours a BOGNA 1M/1V SID or a HARDY 5M/5V SID will be issued as appropriate.**
8 Crews shall request ATC clearance via conventional SID when obtaining their clearance from Gatwick Delivery. Aircraft which do not request clearance to fly conventional SID will be issued with an RNAV1 SID.

CHANGE (4/25): SPECIFICATION CHANGE.
AERO INFO DATE 14 JAN 25
AD 2-EGKK-6-10

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R 26L
SFD 4Z 1X



WAYPOINTS

KKE03	: 510958.00N 0000334.10W
KKS08	: 510544.80N 0000209.20W
KKS12	: 510155.10N 0000020.40W
KKS16	: 505805.21N 0000128.29E
KKS22	: 505220.70N 0000410.60E
KKW06	: 510726.09N 0002153.73W
KKW10	: 510648.64N 0002621.35W
KKW11	: 510338.83N 0002514.22W
KKS13	: 510205.06N 0002223.13W
KKS19	: 505729.42N 0001402.01W
KKS21	: 505610.56N 0001139.14W
SFD	: 504538.48N 0000718.89E

ACC	134.125 (RWY 26L)	LONDON CONTROL
APP	118.950 (RWY 08R)	GATWICK DIRECTOR
TWR	121.955	GATWICK DELIVERY
	124.230, 134.230*	GATWICK TOWER
ATIS	136.525	GATWICK INFORMATION

* When instructed by ATC.

SFD 4Z RWY 08R	Climb straight ahead to **KKE03**, right to **KKS08 - KKS12 - KKS16 - KKS22 - SFD**.	SFD to M605 or SFD Y47 for, L612, L151, M189 southbound.
SFD 1X RWY 26L	Climb straight ahead to **KKW06 - KKW10**, left to **KKW11**, left to **KKS13 - KKS19 - KKS21 - SFD**.	SFD to M605 or SFD Y47 for, L612, L151, M189 southbound

NOTE 1. RWY 26L obstacle requirement: minimum climb gradient 3.9% to **300** AAL.
NOTE 2. Close-in obstacles exist for RWY 08R/26L departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 Noise Abatement Procedures
2. En-route cruising levels will be issued after take-off by 'London Control'.
3. Callsign for RTF frequency used when instructed after take-off is 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4. ALL RNAV flight planned aircraft shall be allocated the RNAV version of Standard Instrument Departure. Crews must request ATC clearance via the conventional SID version if required.
5. **SFD 1X is not normally available between the hours of 0600-2300 winter and 0500-2200 summer. During these hours a BOGNA 1X SID or a HARDY 1X SID will be issued as appropriate.**

CHANGE (4/25): SFD COORDINATES. SPECIFICATION CHANGE.

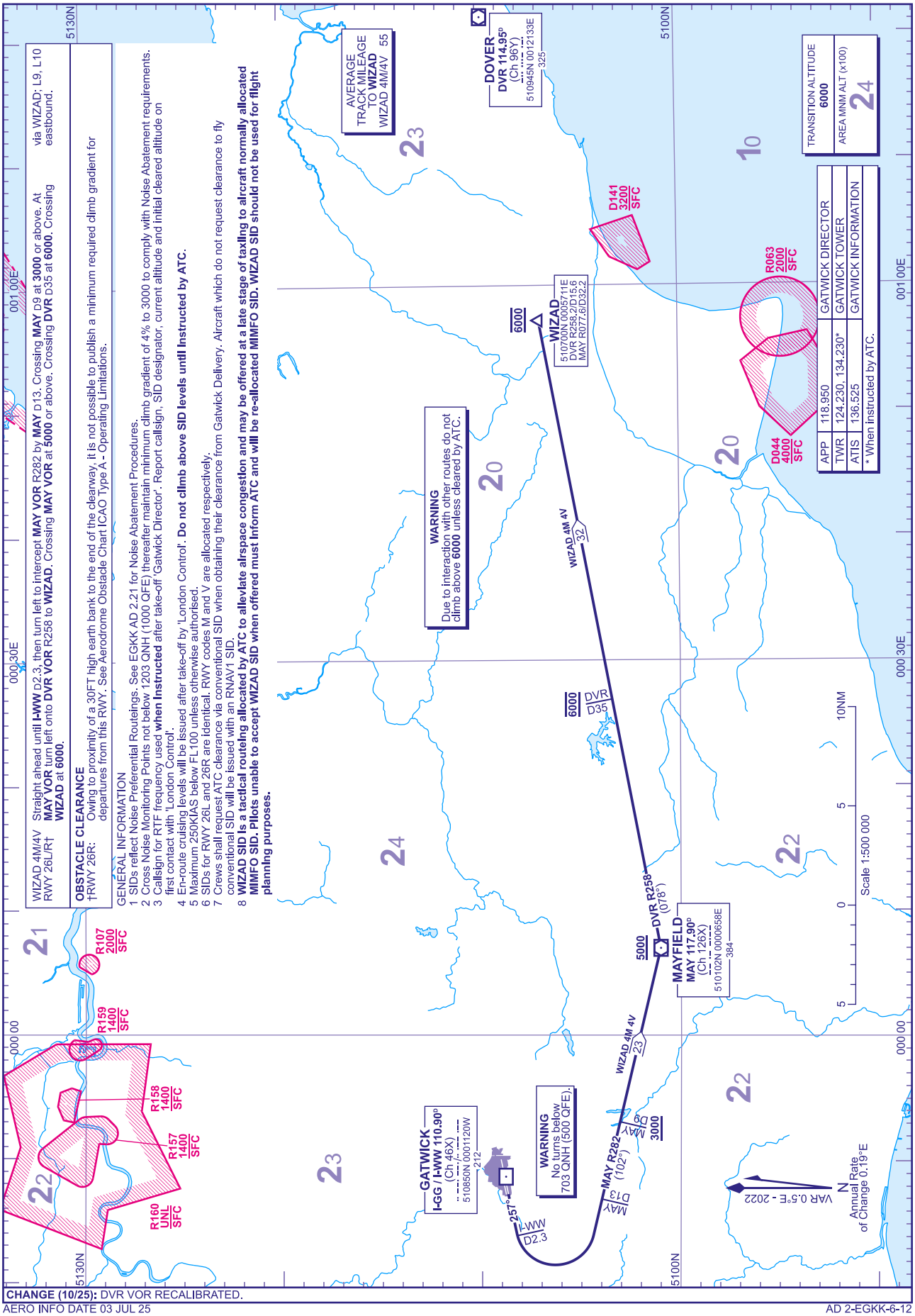
AERO INFO DATE 23 JAN 25

AD 2-EGKK-6-11

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 26L/R
WIZAD 4M 4V



CHANGE (10/25): DVR VOR RECALIBRATED.

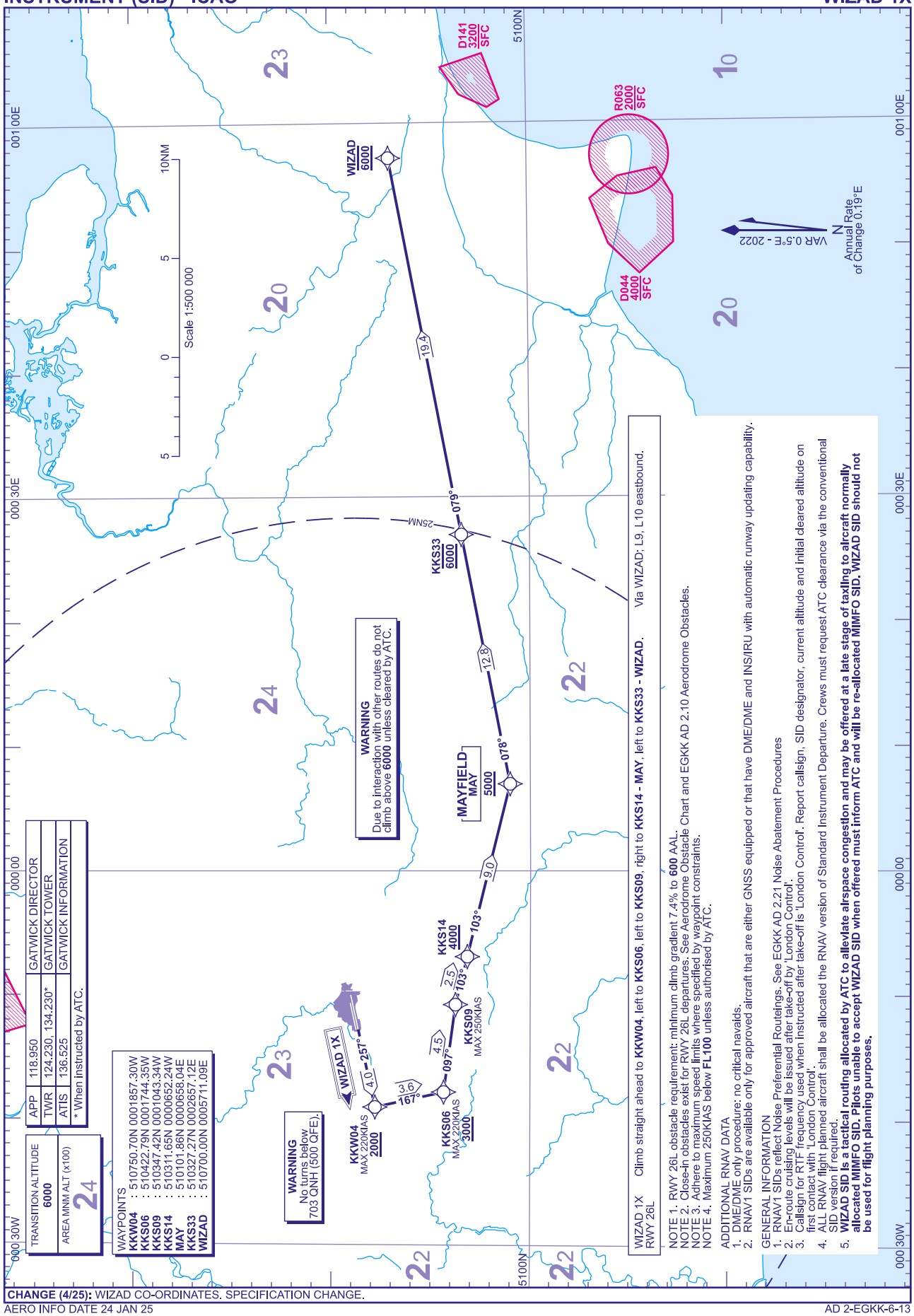
AERO INFO DATE 03 JUL 25

AD 2-EGKK-6-12

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 26L
WIZAD 1X



TRANSITION ALTITUDE	
6000	
AREA MNM ALT (x100)	
24	

APP	118.950	GATWICK DIRECTOR
TWR	124.230, 134.230*	GATWICK TOWER
ATIS	136.525	GATWICK INFORMATION

* When instructed by ATC.

WAYPOINTS

KKW04	: 510750.70N 0001857.30W
KKS06	: 510422.79N 0001744.35W
KKS09	: 510347.42N 0001043.34W
KKS14	: 510311.65N 0000652.24W
MAY	: 510101.86N 0000658.04E
KKS33	: 510327.27N 0002657.12E
WIZAD	: 510700.00N 0005711.09E

WIZAD 1X Climb straight ahead to **KKW04**, left to **KKS06**, left to **KKS09**, right to **KKS14 - MAY**, left to **KKS33 - WIZAD**. Via WIZAD; L9, L10 eastbound.
RWY 26L

NOTE 1. RWY 26L obstacle requirement: minimum climb gradient 7.4% to **600** AAL.
NOTE 2. Close-in obstacles exist for RWY 26L departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 Noise Abatement Procedures
2. En-route cruising levels will be issued after take-off by 'London Control'.
3. Callsign for RTF frequency used when instructed after take-off is 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4. ALL RNAV flight planned aircraft shall be allocated the RNAV version of Standard Instrument Departure. Crews must request ATC clearance via the conventional SID version if required.
5. **WIZAD SID is a tactical routing allocated by ATC to alleviate airspace congestion and may be offered at a late stage of taxiing to aircraft normally allocated MIMFO SID. Pilots unable to accept WIZAD SID when offered must inform ATC and will be re-allocated MIMFO SID. WIZAD SID should not be used for flight planning purposes.**

CHANGE (4/25): WIZAD CO-ORDINATES. SPECIFICATION CHANGE.

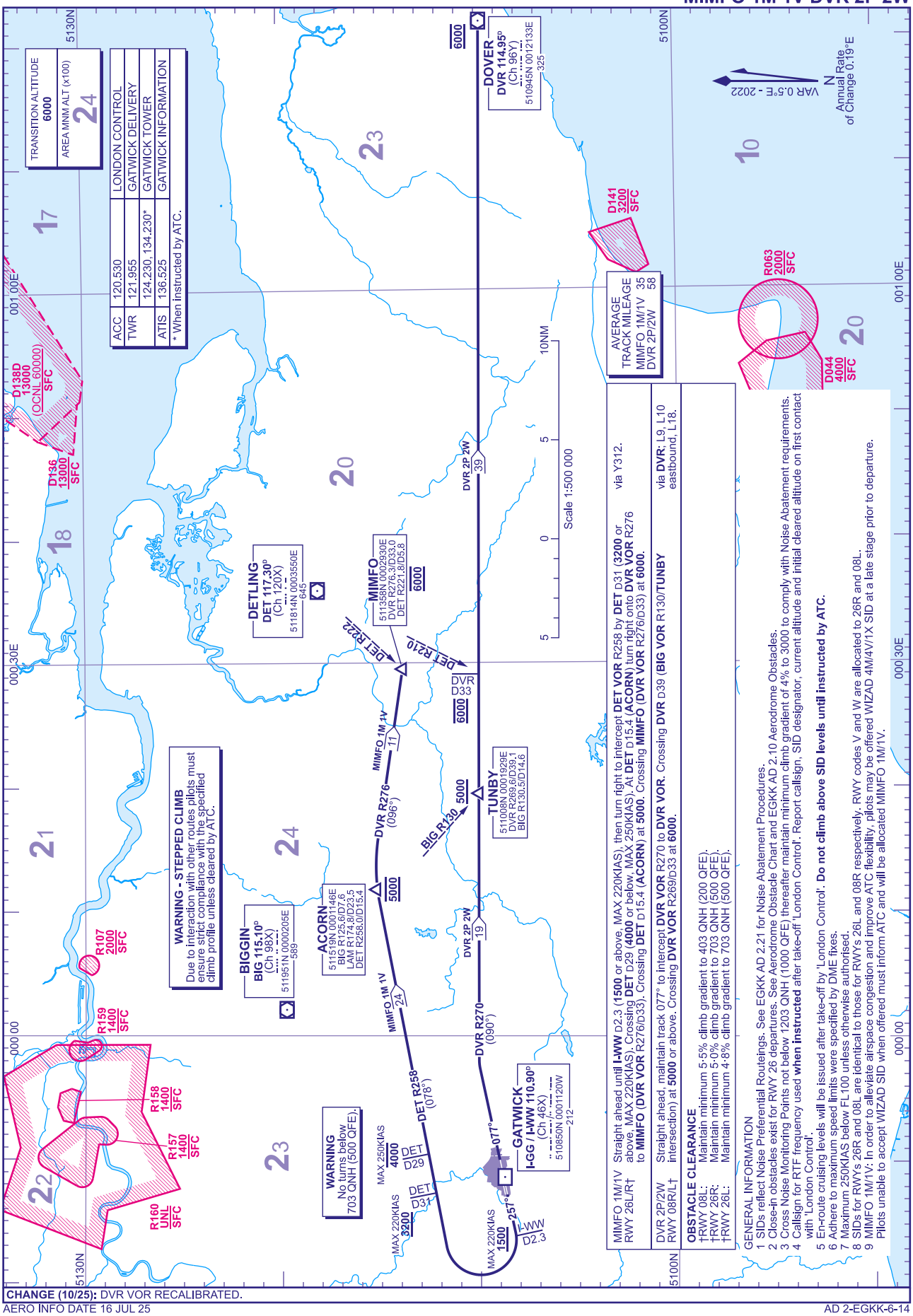
AERO INFO DATE 24 JAN 25

AD 2-EGKK-6-13

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R/L 26L/R
MIMFO 1M 1V DVR 2P 2W



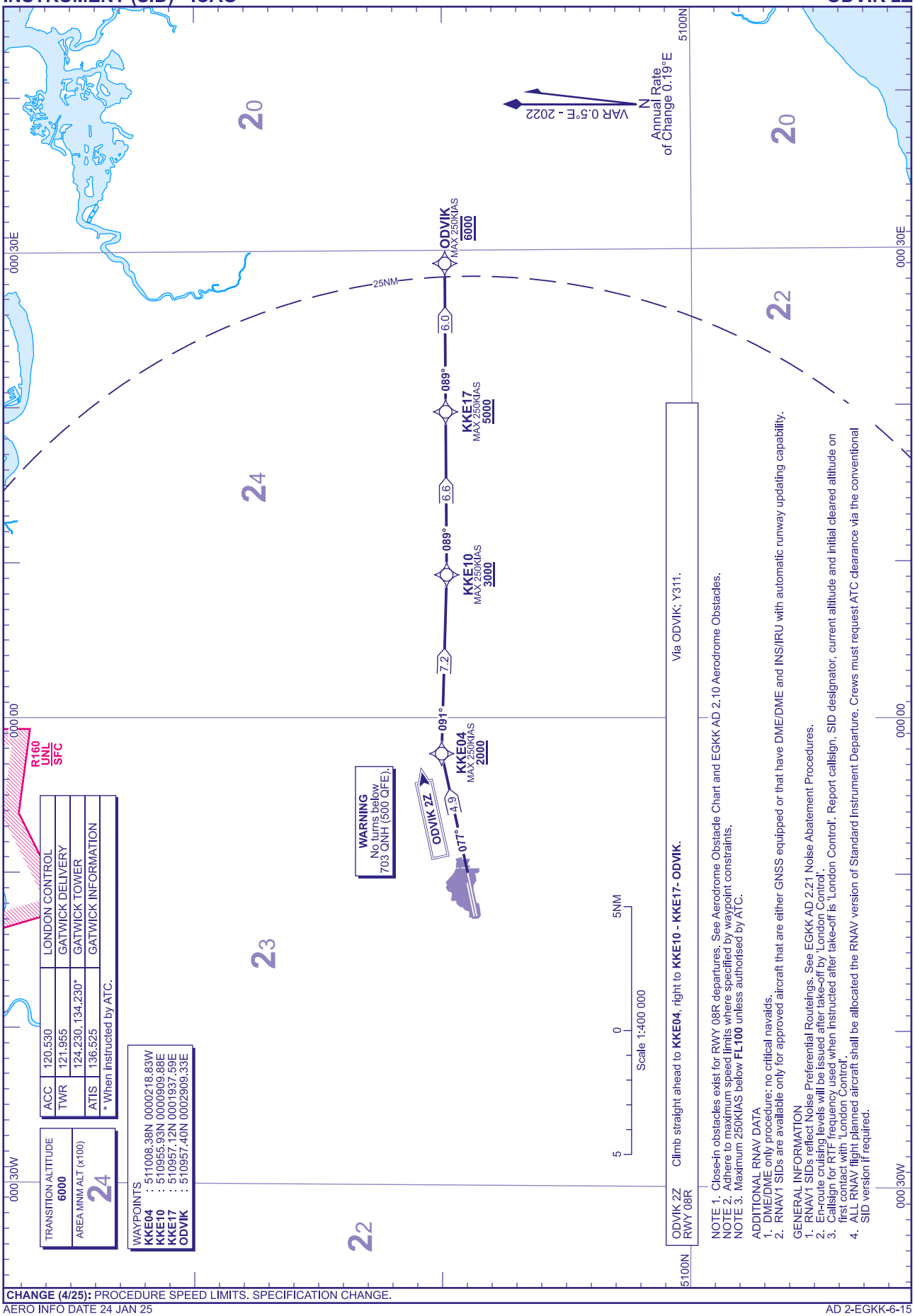
CHANGE (10/25): DVR VOR RECALIBRATED.

AERO INFO DATE 16 JUL 25

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 08R
ODVIK 2Z



CHANGE (4/25): PROCEDURE SPEED LIMITS. SPECIFICATION CHANGE.

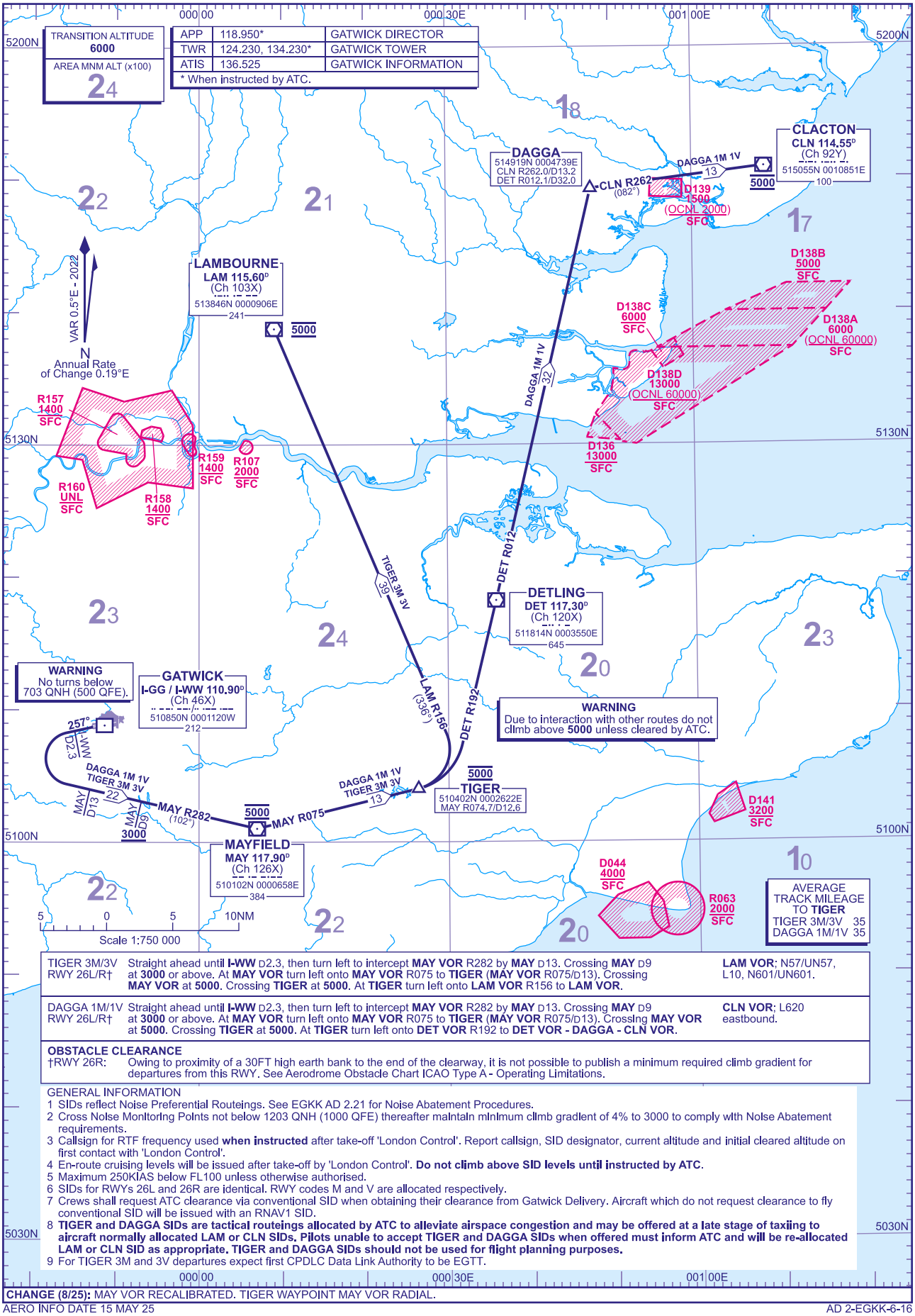
AERO INFO DATE 24 JAN 25

AD 2-EGKK-6-15

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK
RWY 26L/R
TIGER 3M 3V DAGGA 1M 1V



TIGER 3M/3V RWY 26L/R†	Straight ahead until **I-WW** D2.3, then turn left to intercept **MAY VOR** R282 by **MAY** D13. Crossing **MAY** D9 at **3000** or above. At **MAY VOR** turn left onto **MAY VOR** R075 to **TIGER** (**MAY VOR** R075/D13). Crossing **MAY VOR** at **5000**. Crossing **TIGER** at **5000**. At **TIGER** turn left onto **LAM VOR** R156 to **LAM VOR**.
DAGGA 1M/1V RWY 26L/R†	Straight ahead until **I-WW** D2.3, then turn left to intercept **MAY VOR** R282 by **MAY** D13. Crossing **MAY** D9 at **3000** or above. At **MAY VOR** turn left onto **MAY VOR** R075 to **TIGER** (**MAY VOR** R075/D13). Crossing **MAY VOR** at **5000**. Crossing **TIGER** at **5000**. At **TIGER** turn left onto **DET VOR** R192 to **DET VOR - DAGGA - CLN VOR**.

LAM VOR; N57/UN57, L10, N601/UN601.

CLN VOR; L620 eastbound.

OBSTACLE CLEARANCE
†RWY 26R: Owing to proximity of a 30FT high earth bank to the end of the clearway, it is not possible to publish a minimum required climb gradient for departures from this RWY. See Aerodrome Obstacle Chart ICAO Type A - Operating Limitations.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 for Noise Abatement Procedures.
2 Cross Noise Monitoring Points not below 1203 QNH (1000 QFE) thereafter maintain minimum climb gradient of 4% to 3000 to comply with Noise Abatement requirements.
3 Callsign for RTF frequency used **when instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4 En-route cruising levels will be issued after take-off by 'London Control'. **Do not climb above SID levels until instructed by ATC.**
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 SIDs for RWYs 26L and 26R are identical. RWY codes M and V are allocated respectively.
7 Crews shall request ATC clearance via conventional SID when obtaining their clearance from Gatwick Delivery. Aircraft which do not request clearance to fly conventional SID will be issued with an RNAV1 SID.
8 **TIGER and DAGGA SIDs are tactical routeings allocated by ATC to alleviate airspace congestion and may be offered at a late stage of taxiing to aircraft normally allocated LAM or CLN SIDs. Pilots unable to accept TIGER and DAGGA SIDs when offered must inform ATC and will be re-allocated LAM or CLN SID as appropriate. TIGER and DAGGA SIDs should not be used for flight planning purposes.**
9 For TIGER 3M and 3V departures expect first CPDLC Data Link Authority to be EGTT.

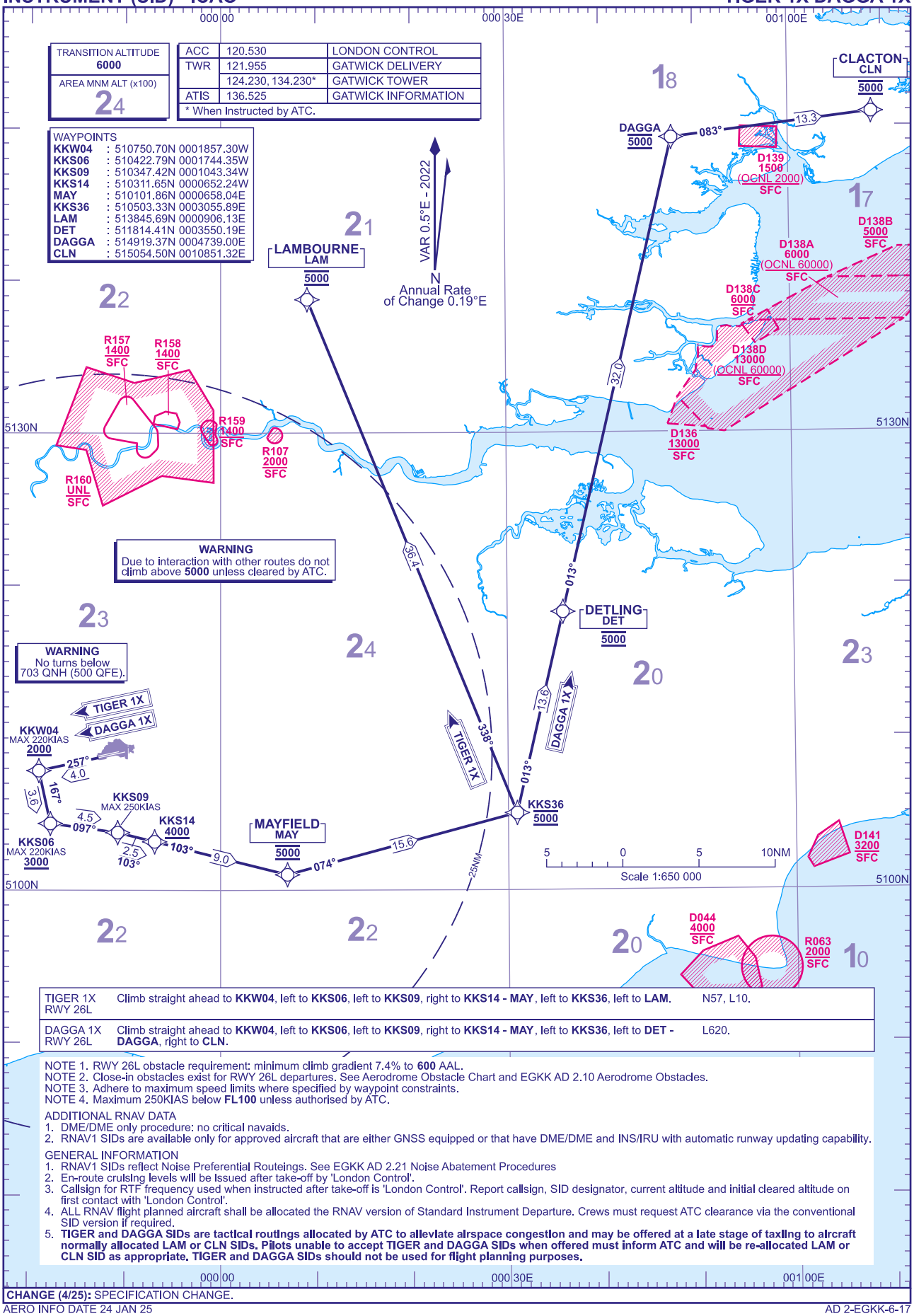
CHANGE (8/25): MAY VOR RECALIBRATED. TIGER WAYPOINT MAY VOR RADIAL.

AERO INFO DATE 15 MAY 25 AD 2-EGKK-6-16

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
RWY 26L
TIGER 1X DAGGA 1X



TIGER 1X RWY 26L	Climb straight ahead to **KKW04**, left to **KKS06**, left to **KKS09**, right to **KKS14 - MAY**, left to **KKS36**, left to **LAM**.	N57, L10.
DAGGA 1X RWY 26L	Climb straight ahead to **KKW04**, left to **KKS06**, left to **KKS09**, right to **KKS14 - MAY**, left to **KKS36**, left to **DET - DAGGA**, right to **CLN**.	L620.

NOTE 1. RWY 26L obstacle requirement: minimum climb gradient 7.4% to **600** AAL.
NOTE 2. Close-in obstacles exist for RWY 26L departures. See Aerodrome Obstacle Chart and EGKK AD 2.10 Aerodrome Obstacles.
NOTE 3. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 4. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure: no critical navaids.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGKK AD 2.21 Noise Abatement Procedures
2. En-route cruising levels will be issued after take-off by 'London Control'.
3. Callsign for RTF frequency used when instructed after take-off is 'London Control'. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
4. ALL RNAV flight planned aircraft shall be allocated the RNAV version of Standard Instrument Departure. Crews must request ATC clearance via the conventional SID version if required.
5. **TIGER and DAGGA SIDs are tactical routings allocated by ATC to alleviate airspace congestion and may be offered at a late stage of taxiing to aircraft normally allocated LAM or CLN SIDs. Pilots unable to accept TIGER and DAGGA SIDs when offered must inform ATC and will be re-allocated LAM or CLN SID as appropriate. TIGER and DAGGA SIDs should not be used for flight planning purposes.**

CHANGE (4/25): SPECIFICATION CHANGE.

AERO INFO DATE 24 JAN 25
AD 2-EGKK-6-17

Standard Instrument Departure Coding Tables

LONDON GATWICK Runway 08R LAM 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAM1Z	001	CF	KKE02	510953.05N 0000410.13W	N	077° (077.7°)	0.5	3.7	LEFT	+2000	-250	RNAV1
LAM1Z	002	TF	KKE12	511459.25N 0000624.07E	N	052° (052.4°)	0.5	8.4	RIGHT	+3000	-250	RNAV1
LAM1Z	003	TF	SUNAV	511536.90N 0001139.80E	N	079° (079.2°)	0.5	3.4	-	5000	-250	RNAV1
LAM1Z	004	TF	KKE35	511659.04N 0002316.22E	N	079° (079.3°)	0.5	7.4	LEFT	5000	-250	RNAV1
LAM1Z	005	TF	KKN43	512453.61N 0001809.13E	N	337° (338.0°)	0.5	8.5	-	5000	-250	RNAV1
LAM1Z	006	TF	KKN48	512931.14N 0001508.68E	N	337° (337.9°)	0.5	5.0	-	6000	-250	RNAV1
LAM1Z	007	TF	LAM	513845.69N 0000906.13E	N	337° (337.9°)	0.5	10.0	-	6000	-250	RNAV1

LONDON GATWICK Runway 08R FRANE 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FRANE1Z	001	CF	KKE04	511008.38N 0000218.83W	N	077° (077.6°)	0.5	4.9	RIGHT	+2000	-250	RNAV1
FRANE1Z	002	TF	KKE10	510955.93N 0000909.88E	N	091° (091.6°)	0.5	7.2	-	+3000	-250	RNAV1
FRANE1Z	003	TF	KKE17	510957.12N 0001937.59E	N	089° (089.8°)	0.5	6.6	-	5000	-250	RNAV1
FRANE1Z	004	TF	KKE25	510957.30N 0003244.84E	N	089° (089.9°)	0.5	8.3	LEFT	5000	-250	RNAV1
FRANE1Z	005	TF	DET	511814.41N 0003550.19E	N	013° (013.2°)	0.5	8.5	-	5000	-250	RNAV1
FRANE1Z	006	TF	FRANE	512306.00N 0003739.40E	N	013° (013.2°)	0.5	5.0	-	6000	-250	RNAV1

CHANGE (4/25): SPECIFICATION CHANGE.
AERO INFO DATE 14 JAN 25

Standard Instrument Departure Coding Tables

LONDON GATWICK Runway 26L BOGNA 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BOGNA1X	001	CF	KKW06	510726.09N 0002153.73W	N	257° (257.6°)	0.5	5.9	-	+2500	-220	RNAV1
BOGNA1X	002	TF	KKW08	510656.84N 0002522.88W	N	257° (257.5°)	0.5	2.2	LEFT	-	-220	RNAV1
BOGNA1X	003	TF	KKS11	510442.43N 0002505.76W	N	175° (175.4°)	0.5	2.2	-	+4000	-220	RNAV1
BOGNA1X	004	TF	KKS17	510022.73N 0002432.75W	N	175° (175.4°)	0.5	4.3	-	5000	-250	RNAV1
BOGNA1X	005	TF	KKS20	505524.03N 0002354.89W	N	175° (175.4°)	0.5	5.0	-	6000	-250	RNAV1
BOGNA1X	006	TF	KKS25	504958.32N 0002313.74W	N	175° (175.4°)	0.5	5.5	LEFT	6000	-250	RNAV1
BOGNA1X	007	TF	BOGNA	504207.00N 0001505.57W	N	146° (146.6°)	0.5	9.4	-	6000	-250	RNAV1

LONDON GATWICK Runway 26L HARDY 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HARDY1X	001	CF	KKW06	510726.09N 0002153.73W	N	257° (257.6°)	0.5	5.9	-	+2500	-220	RNAV1
HARDY1X	002	TF	KKW08	510656.84N 0002522.88W	N	257° (257.5°)	0.5	2.2	LEFT	-	-220	RNAV1
HARDY1X	003	TF	KKS11	510442.43N 0002505.76W	N	175° (175.4°)	0.5	2.2	-	+4000	-220	RNAV1
HARDY1X	004	TF	KKS17	510022.73N 0002432.75W	N	175° (175.4°)	0.5	4.3	-	5000	-250	RNAV1
HARDY1X	005	TF	KKS20	505524.03N 0002354.89W	N	175° (175.4°)	0.5	5.0	-	6000	-250	RNAV1
HARDY1X	006	TF	KKS25	504958.32N 0002313.74W	N	175° (175.4°)	0.5	5.5	LEFT	6000	-250	RNAV1
HARDY1X	007	TF	BOGNA	504207.00N 0001505.57W	N	146° (146.6°)	0.5	9.4	LEFT	6000	-250	RNAV1
HARDY1X	008	TF	HARDY	502815.75N 0002928.04E	N	115° (115.7°)	0.5	31.6	-	6000	-250	RNAV1

CHANGE (4/25): BOGNA, HARDY COORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 27 JAN 25

Standard Instrument Departure Coding Tables

LONDON GATWICK Runway 08R IMVUR 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
IMVUR1Z	001	CF	KKE05	511005.90N 0000235.70W	N	077° (077.7°)	0.5	4.7	LEFT	+2500	-220	RNAV1
IMVUR1Z	002	TF	KKN09	511353.10N 0000355.30W	N	347° (347.6°)	0.5	3.9	LEFT	3000	-220	RNAV1
IMVUR1Z	003	TF	KKW19	511158.00N 0002034.30W	N	259° (259.7°)	0.5	10.6	-	3000	-250	RNAV1
IMVUR1Z	004	TF	IMVUR	511028.90N 0003156.40W	N	258° (258.3°)	0.5	7.3	LEFT	4000	-250	RNAV1

LONDON GATWICK Runway 26L NOVMA 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NOVMA1X	001	CF	KKW07	510717.20N 0002300.00W	N	257° (257.7°)	0.5	6.6	-	+2500	-250	RNAV1
NOVMA1X	002	TF	KKW09	510654.30N 0002544.30W	N	257° (257.5°)	0.5	1.8	LEFT	+3000	-250	RNAV1
NOVMA1X	003	TF	MID	510314.23N 0003730.01W	N	243° (243.7°)	0.5	8.3	RIGHT	4000	-250	RNAV1
NOVMA1X	004	TF	NOVMA	510211.79N 0004514.92W	N	257° (258.0°)	0.5	5.0	-	4000	-250	RNAV1

LONDON GATWICK Runway 08R SFD 4Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SFD4Z	001	CF	KKE03	510958.00N 0000334.10W	N	077° (077.6°)	0.5	4.1	RIGHT	+2000	-220	RNAV1
SFD4Z	002	TF	KKS08	510544.80N 0000209.20W	N	168° (168.1°)	0.5	4.3	LEFT	+3000	-250	RNAV1
SFD4Z	003	TF	KKS12	510155.10N 0000020.40W	N	163° (163.4°)	0.5	4.0	-	-	-250	RNAV1
SFD4Z	004	TF	KKS16	505805.21N 0000128.29E	N	163° (163.4°)	0.5	4.0	-	+5000	-250	RNAV1
SFD4Z	005	TF	KKS22	505220.70N 0000410.60E	N	163° (163.4°)	0.5	6.0	-	6000	-250	RNAV1
SFD4Z	006	TF	SFD	504538.48N 0000718.89E	N	163° (163.5°)	0.5	7.0	-	6000	-250	RNAV1

LONDON GATWICK Runway 26L SFD 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SFD1X	001	CF	KKW06	510726.09N 0002153.73W	N	257° (257.6°)	0.5	5.9	-	+2500	-220	RNAV1
SFD1X	002	TF	KKW10	510648.64N 0002621.35W	N	257° (257.5°)	0.5	2.9	LEFT	-	-220	RNAV1
SFD1X	003	TF	KKW11	510338.83N 0002514.22W	N	167° (167.4°)	0.5	3.2	LEFT	-	-220	RNAV1
SFD1X	004	TF	KKS13	510205.06N 0002223.13W	N	130° (131.0°)	0.5	2.4	-	4000	-250	RNAV1
SFD1X	005	TF	KKS19	505729.42N 0001402.01W	N	130° (131.0°)	0.5	7.0	-	+5000	-250	RNAV1
SFD1X	006	TF	KKS21	505610.56N 0001139.14W	N	131° (131.1°)	0.5	2.0	-	6000	-250	RNAV1
SFD1X	007	TF	SFD	504538.48N 0000718.89E	N	131° (131.1°)	0.5	16.0	-	6000	-250	RNAV1

CHANGE (4/25): NOVMA, SFD CO-ORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 27 JAN 25

Standard Instrument Departure Coding Tables

LONDON GATWICK Runway 26L WIZAD 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WIZAD1X	001	CF	KKW04	510750.70N 0001857.30W	N	257° (257.6°)	0.5	4.0	LEFT	+2000	-220	RNAV1
WIZAD1X	002	TF	KKS06	510422.79N 0001744.35W	N	167° (167.5°)	0.5	3.6	LEFT	+3000	-220	RNAV1
WIZAD1X	003	TF	KKS09	510347.42N 0001043.34W	N	097° (097.5°)	0.5	4.5	RIGHT	-	-250	RNAV1
WIZAD1X	004	TF	KKS14	510311.65N 0000652.24W	N	103° (103.8°)	0.5	2.5	-	+4000	-250	RNAV1
WIZAD1X	005	TF	MAY	510101.86N 0000658.04E	N	103° (103.8°)	0.5	9.0	LEFT	+5000	-250	RNAV1
WIZAD1X	006	TF	KKS33	510327.27N 0002657.12E	N	078° (079.0°)	0.5	12.8	-	6000	-250	RNAV1
WIZAD1X	007	TF	WIZAD	510700.00N 0005711.09E	N	079° (079.3°)	0.5	19.4	-	6000	-250	RNAV1

LONDON GATWICK Runway 08R ODVIK 2Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ODVIK2Z	001	CF	KKE04	511008.38N 0000218.83W	N	077° (077.6°)	0.5	4.9	RIGHT	+2000	-250	RNAV1
ODVIK2Z	002	TF	KKE10	510955.93N 0000909.88E	N	091° (091.6°)	0.5	7.2	-	+3000	-250	RNAV1
ODVIK2Z	003	TF	KKE17	510957.12N 0001937.59E	N	089° (089.8°)	0.5	6.6	-	+5000	-250	RNAV1
ODVIK2Z	004	TF	ODVIK	510957.40N 0002909.33E	N	089° (089.9°)	0.5	6.0	-	6000	-250	RNAV1

CHANGE (4/25): WIZAD CO-ORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 27 JAN 25

Standard Instrument Departure Coding Tables

LONDON GATWICK Runway 26L TIGER 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TIGER1X	001	CF	KKW04	510750.70N 0001857.30W	N	257° (257.6°)	0.5	4.0	LEFT	+2000	-220	RNAV1
TIGER1X	002	TF	KKS06	510422.79N 0001744.35W	N	167° (167.5°)	0.5	3.6	LEFT	+3000	-220	RNAV1
TIGER1X	003	TF	KKS09	510347.42N 0001043.34W	N	097° (097.5°)	0.5	4.5	RIGHT	-	-250	RNAV1
TIGER1X	004	TF	KKS14	510311.65N 0000652.24W	N	103° (103.8°)	0.5	2.5	-	+4000	-250	RNAV1
TIGER1X	005	TF	MAY	510101.86N 0000658.04E	N	103° (103.8°)	0.5	9.0	LEFT	5000	-250	RNAV1
TIGER1X	006	TF	KKS36	510503.33N 0003055.89E	N	074° (074.9°)	0.5	15.6	LEFT	5000	-250	RNAV1
TIGER1X	007	TF	LAM	513845.69N 0000906.13E	N	338° (338.1°)	0.5	36.4	-	5000	-250	RNAV1

LONDON GATWICK Runway 26L DAGGA 1X

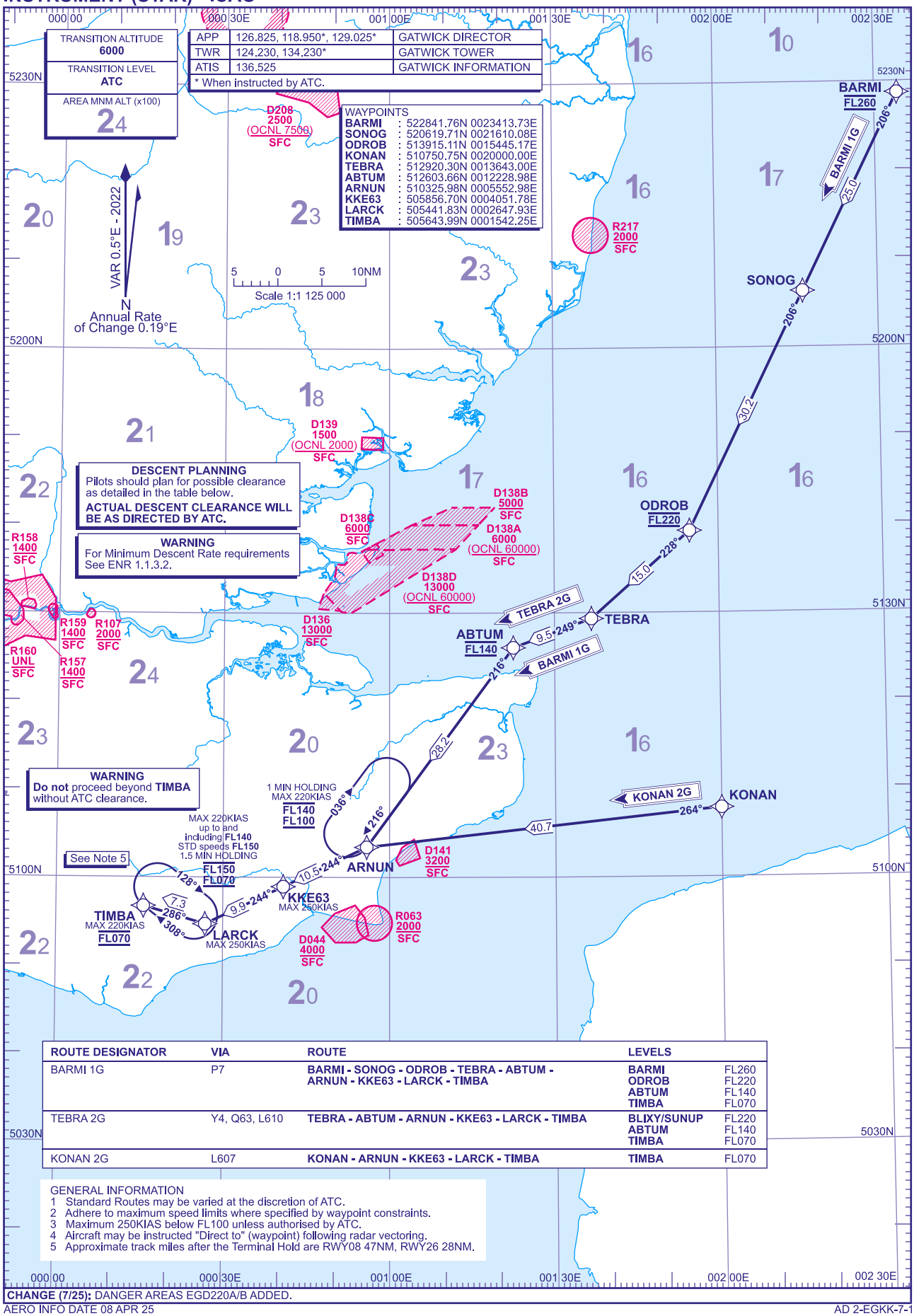
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DAGGA1X	001	CF	KKW04	510750.70N 0001857.30W	N	257° (257.6°)	0.5	4.0	LEFT	+2000	-220	RNAV1
DAGGA1X	002	TF	KKS06	510422.79N 0001744.35W	N	167° (167.5°)	0.5	3.6	LEFT	+3000	-220	RNAV1
DAGGA1X	003	TF	KKS09	510347.42N 0001043.34W	N	097° (097.5°)	0.5	4.5	RIGHT	-	-250	RNAV1
DAGGA1X	004	TF	KKS14	510311.65N 0000652.24W	N	103° (103.8°)	0.5	2.5	-	+4000	-250	RNAV1
DAGGA1X	005	TF	MAY	510101.86N 0000658.04E	N	103° (103.8°)	0.5	9.0	LEFT	5000	-250	RNAV1
DAGGA1X	006	TF	KKS36	510503.33N 0003055.89E	N	074° (074.9°)	0.5	15.6	LEFT	5000	-250	RNAV1
DAGGA1X	007	TF	DET	511814.41N 0003550.19E	N	013° (013.1°)	0.5	13.6	-	5000	-250	RNAV1
DAGGA1X	008	TF	DAGGA	514919.37N 0004739.00E	N	013° (013.3°)	0.5	32.0	RIGHT	5000	-250	RNAV1
DAGGA1X	009	TF	CLN	515054.50N 0010851.32E	N	082° (083.1°)	0.5	13.3	-	5000	-250	RNAV1

CHANGE (4/25): DAGGA CO-ORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 27 JAN 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
BARMI 1G TEBRA 2G KONAN 2G



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
BARMI 1G	P7	BARMI - SONOG - ODROB - TEBRA - ABTUM - ARNUN - KKE63 - LARCK - TIMBA	BARMI ODROB ABTUM TIMBA	FL260 FL220 FL140 FL070
TEBRA 2G	Y4, Q63, L610	TEBRA - ABTUM - ARNUN - KKE63 - LARCK - TIMBA	BLIXY/SUNUP ABTUM TIMBA	FL220 FL140 FL070
KONAN 2G	L607	KONAN - ARNUN - KKE63 - LARCK - TIMBA	TIMBA	FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 Approximate track miles after the Terminal Hold are RWY08 47NM, RWY26 28NM.

CHANGE (7/25): DANGER AREAS EGD220A/B ADDED.

AERO INFO DATE 08 APR 25

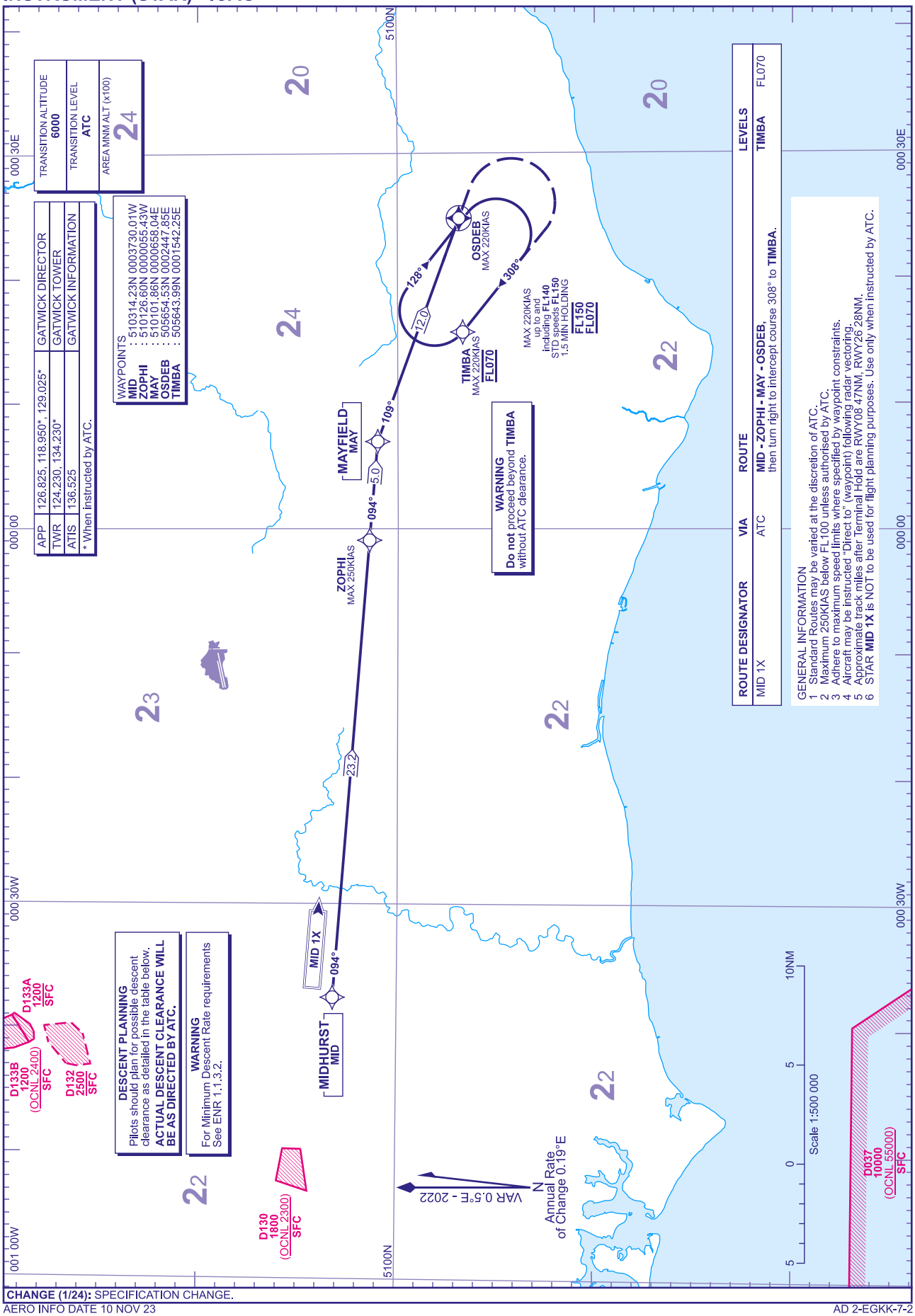
AD 2-EGKK-7-1

I

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
MID 1X



CHANGE (1/24): SPECIFICATION CHANGE.

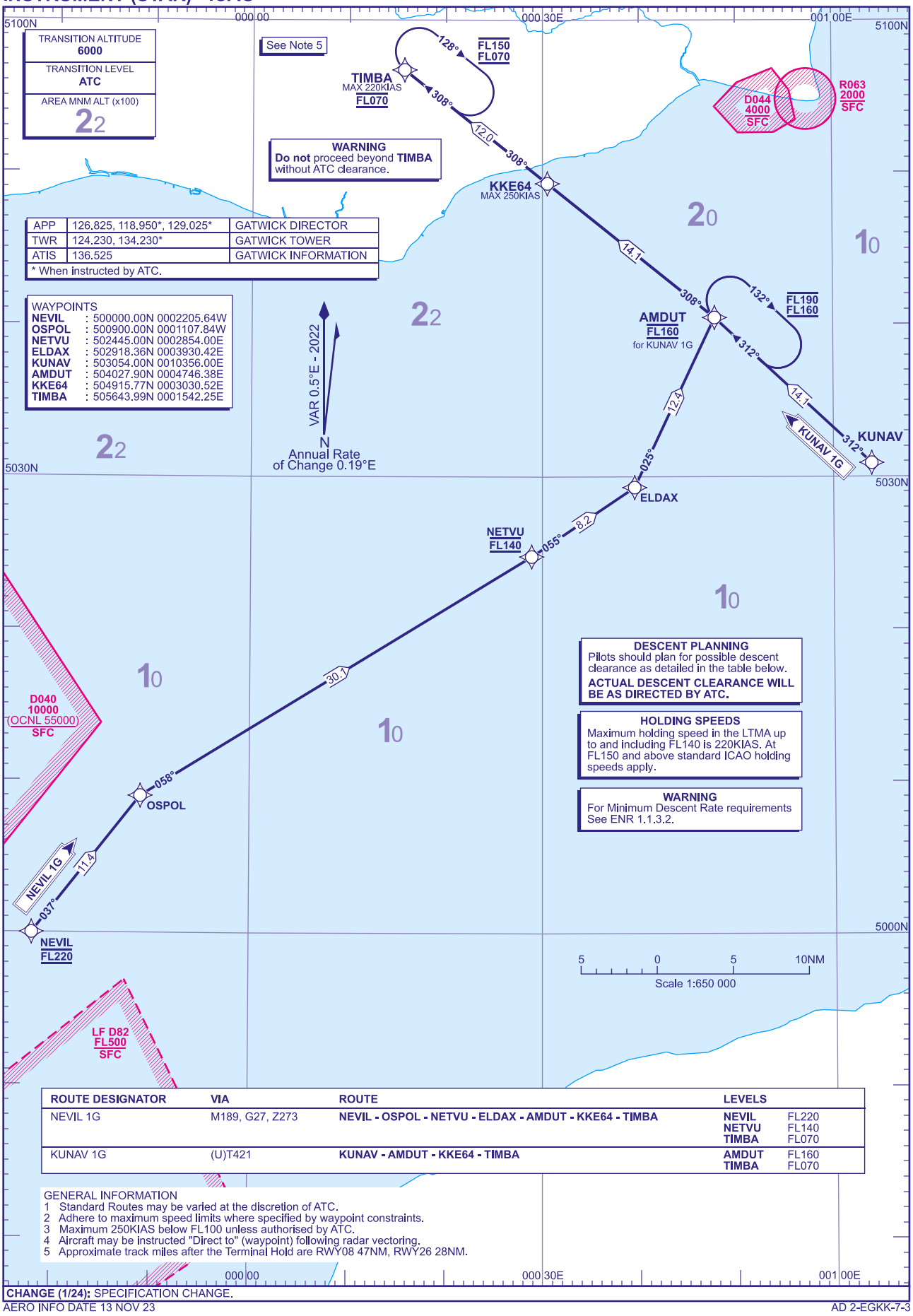
AERO INFO DATE 10 NOV 23

AD 2-EGKK-7-2

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK NEVIL 1G KUNAV 1G



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
NEVIL 1G	M189, G27, Z273	NEVIL - OSPOL - NETVU - ELDAX - AMDUT - KKE64 - TIMBA	NEVIL NETVU TIMBA	FL220 FL140 FL070
KUNAV 1G	(U)T421	KUNAV - AMDUT - KKE64 - TIMBA	AMDUT TIMBA	FL160 FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 Approximate track miles after the Terminal Hold are RWY08 47NM, RWY26 28NM.

CHANGE (1/24): SPECIFICATION CHANGE.

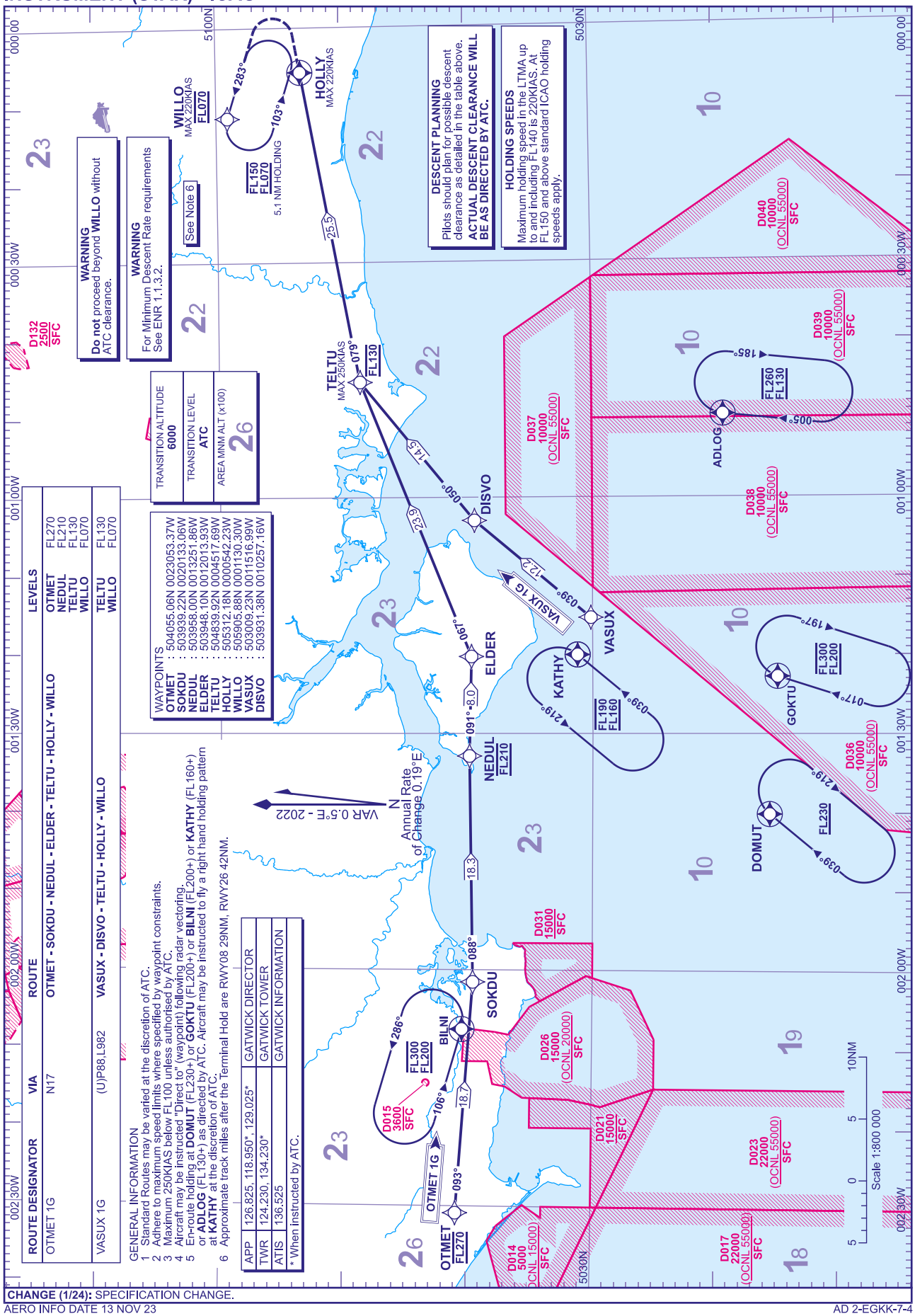
AERO INFO DATE 13 NOV 23

I

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK OTMET 1G VASUX 1G



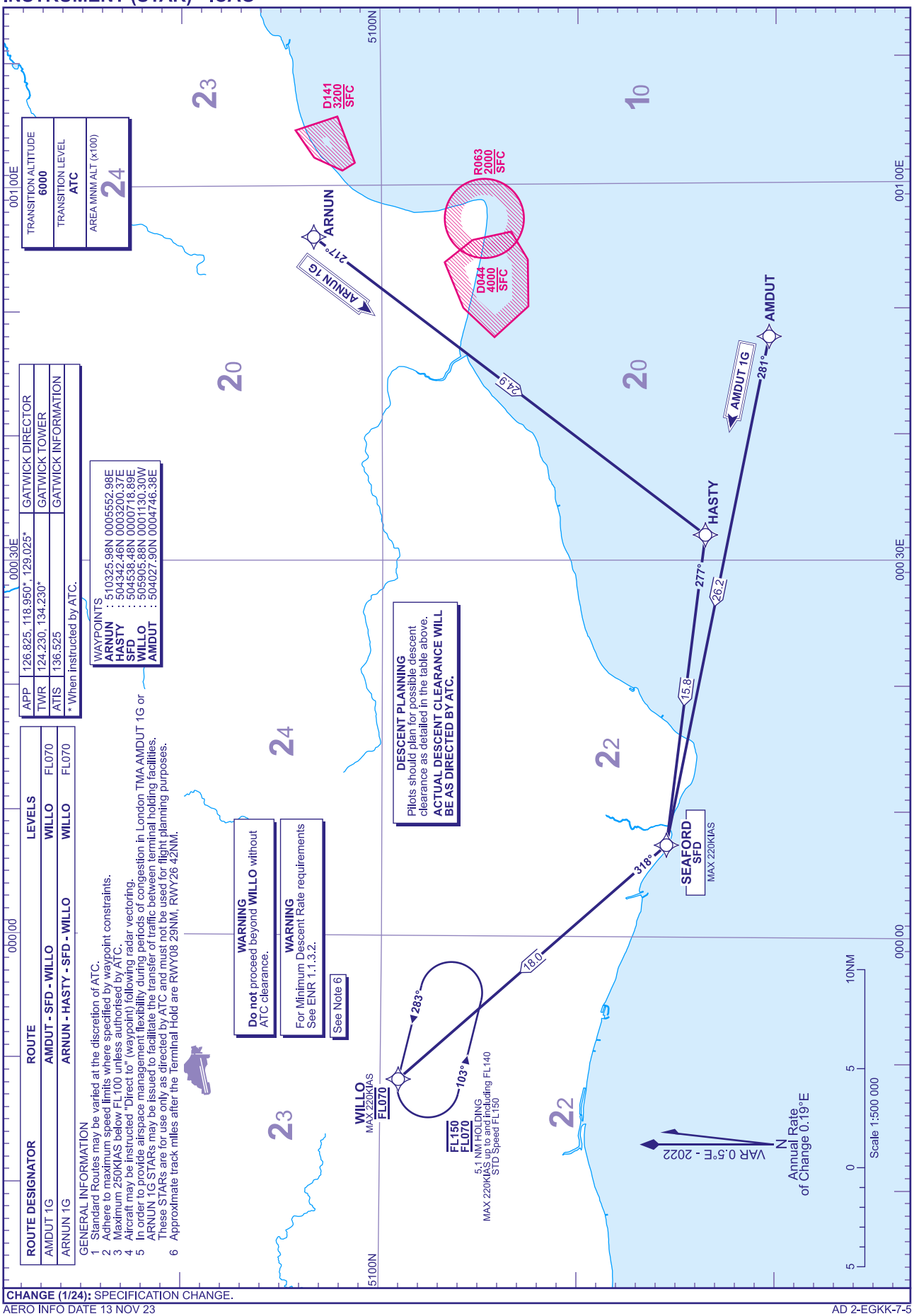
CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 13 NOV 23

AD 2-EGKK-7-4

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK AMDUT 1G ARNUN 1G



CHANGE (1/24): SPECIFICATION CHANGE.

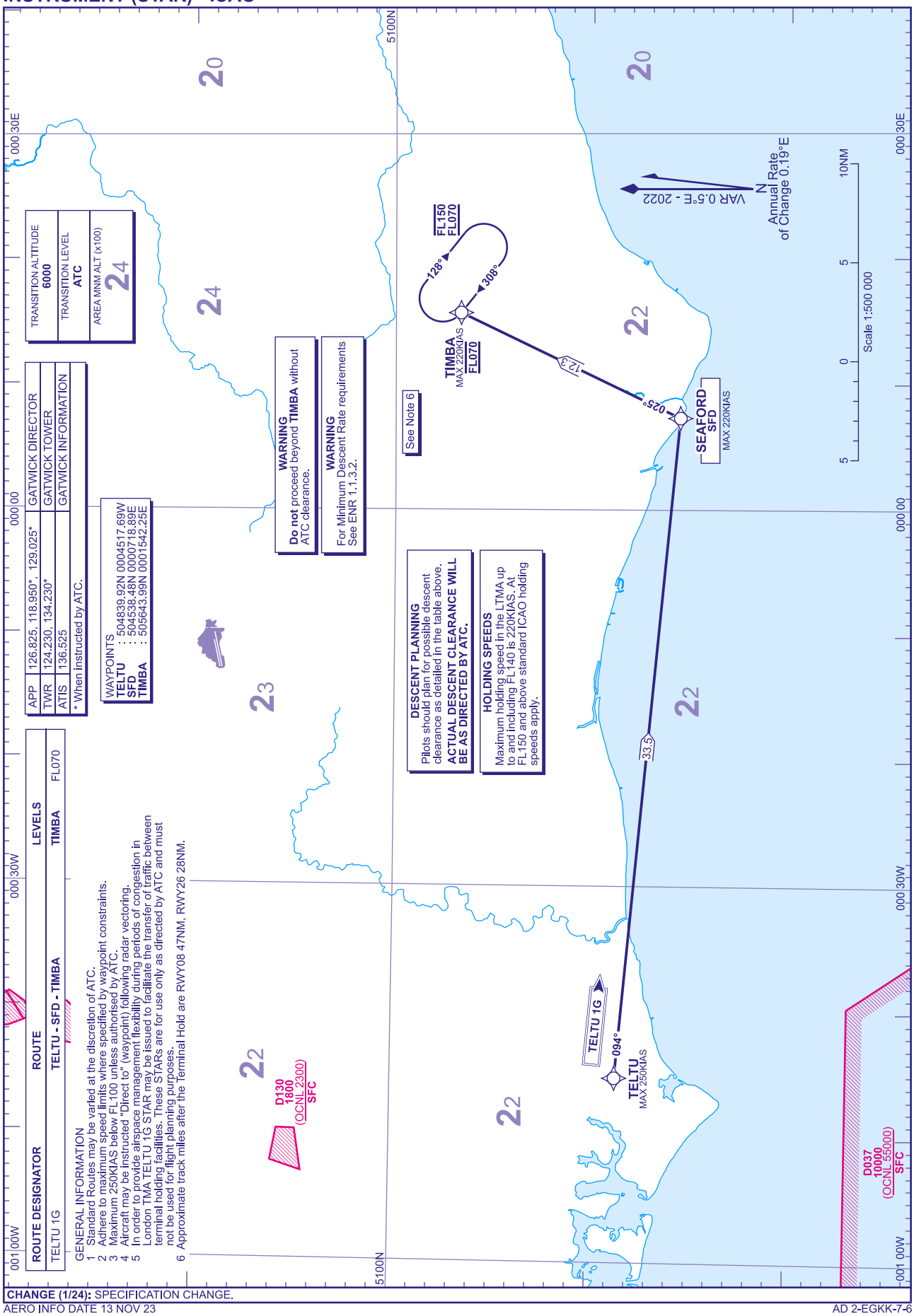
AERO INFO DATE 13 NOV 23

AD 2-EGKK-7-5

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
TELTU 1G



ROUTE DESIGNATOR	ROUTE	LEVELS	
TELTU 1G	TELTU - SFD - TIMBA	TIMBA	FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 In order to provide airspace management flexibility during periods of congestion in London TMA TELTU 1G STAR may be issued to facilitate the transfer of traffic between terminal holding facilities. These STARs are for use only as directed by ATC and must not be used for flight planning purposes.
6 Approximate track miles after the Terminal Hold are RWY08 47NM, RWY26 28NM.

CHANGE (1/24): SPECIFICATION CHANGE.

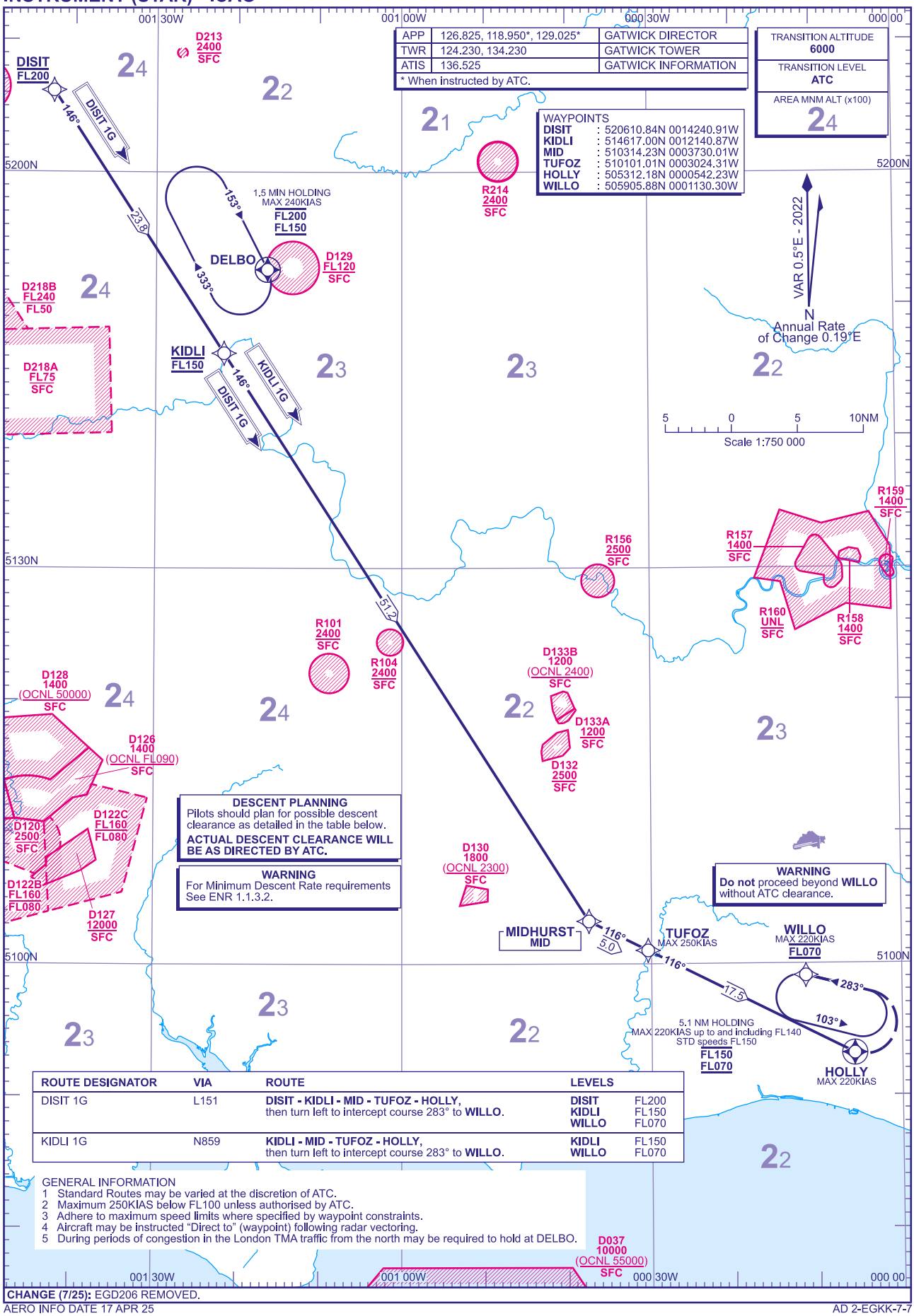
AERO INFO DATE 13 NOV 23

AD 2-EGKK-7-6

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON GATWICK
DISIT 1G KIDLI 1G



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
DISIT 1G	L151	**DISIT - KIDLI - MID - TUFOZ - HOLLY,** then turn left to intercept course 283° to **WILLO.**	**DISIT** **KIDLI** **WILLO**	FL200 FL150 FL070
KIDLI 1G	N859	**KIDLI - MID - TUFOZ - HOLLY,** then turn left to intercept course 283° to **WILLO.**	**KIDLI** **WILLO**	FL150 FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Maximum 250KIAS below FL100 unless authorised by ATC.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 During periods of congestion in the London TMA traffic from the north may be required to hold at DELBO.

CHANGE (7/25): EGD206 REMOVED.

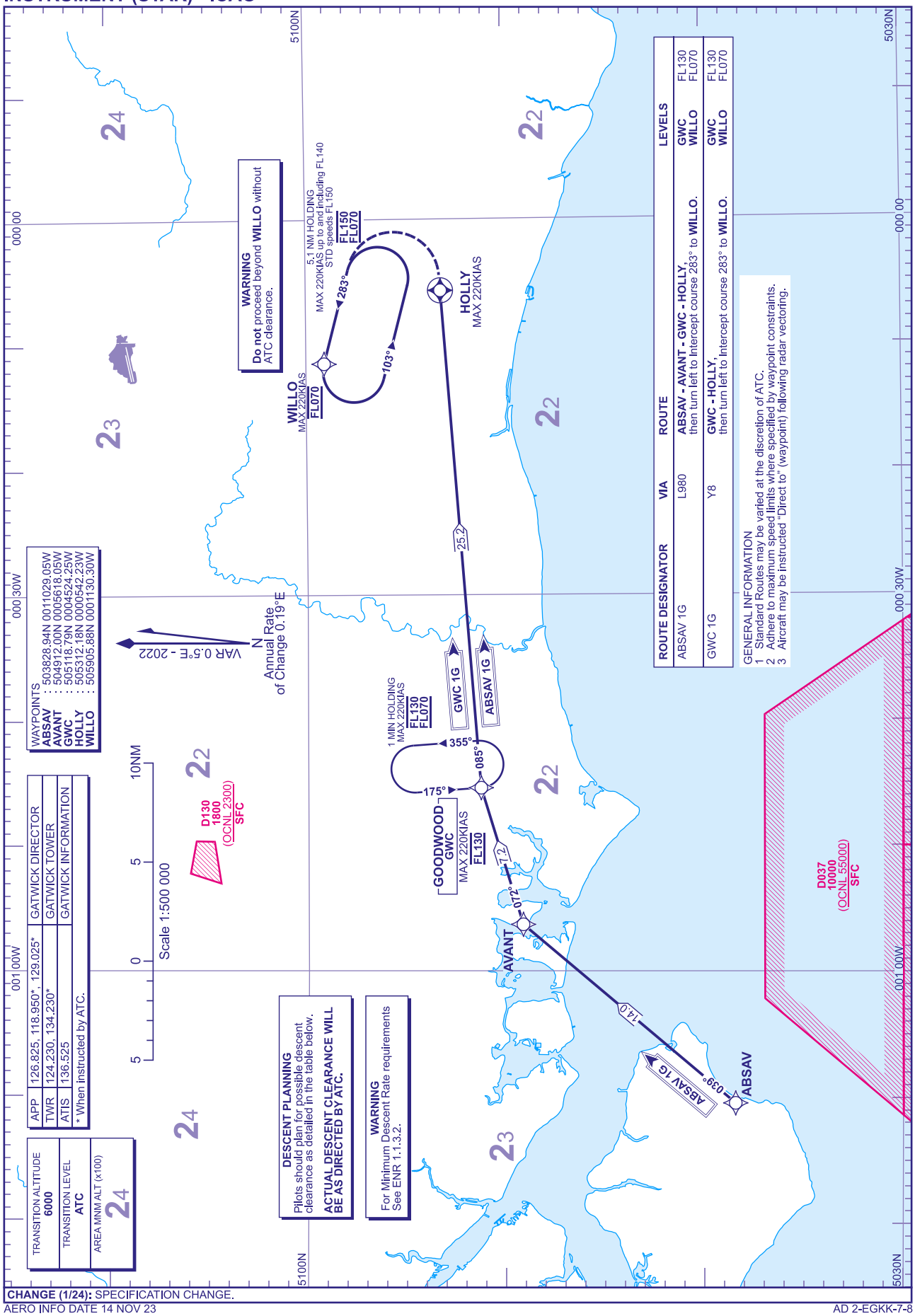
AERO INFO DATE 17 APR 25

I

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK
ABSAV 1G GWC 1G



CHANGE (1/24): SPECIFICATION CHANGE.

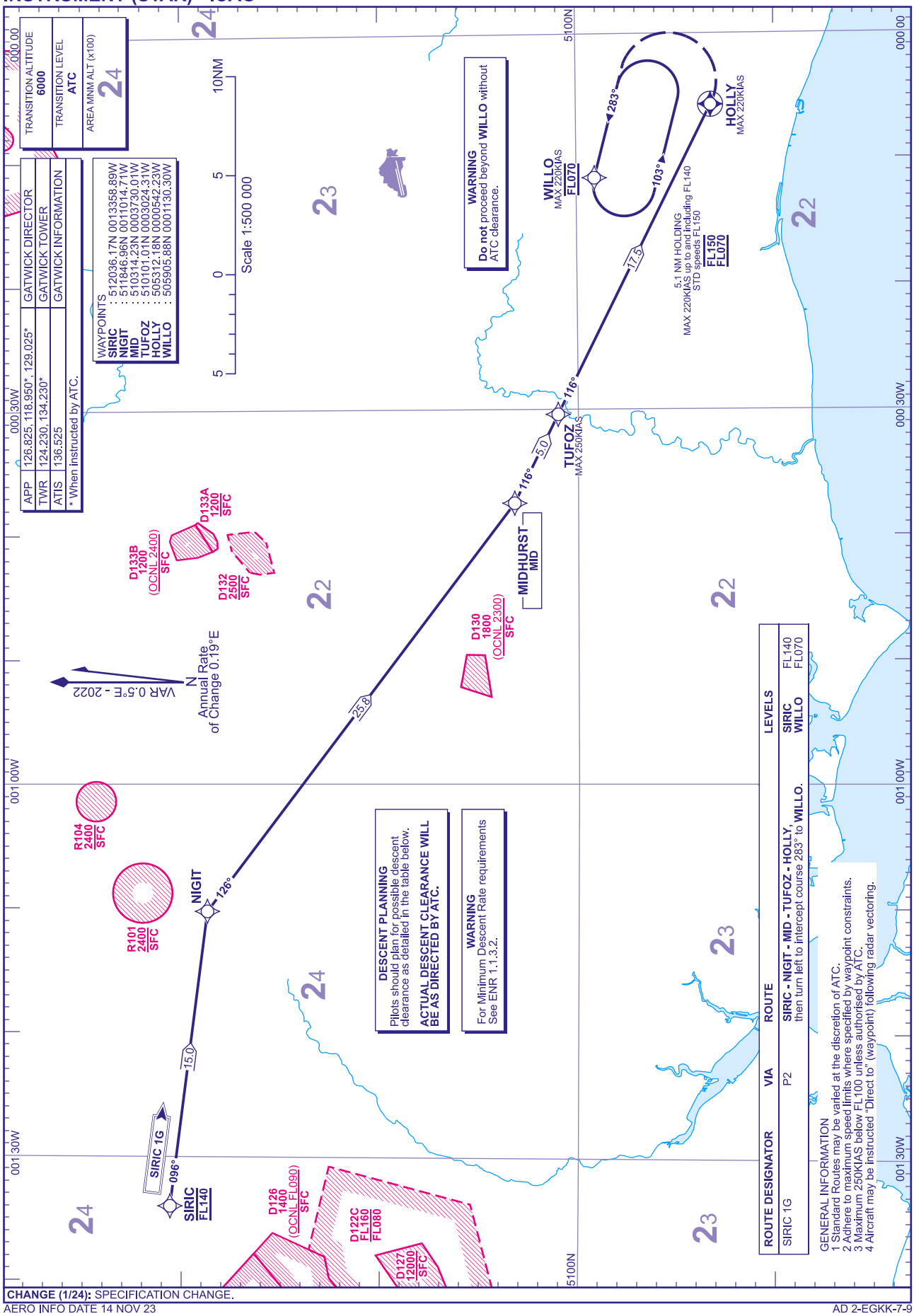
AERO INFO DATE 14 NOV 23

AD 2-EGKK-7-8

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK
SIRIC 1G



CHANGE (1/24): SPECIFICATION CHANGE.

AERO INFO DATE 14 NOV 23

AD 2-EGKK-7-9

Standard Instrument Arrival Coding Tables

LONDON GATWICK BARMI 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BARMI1G	001	IF	BARMI	522841.76N 0023413.73E	N	-	-	-	-	FL260	-	RNAV5
BARMI1G	002	TF	SONOG	520619.71N 0021610.08E	N	206° (206.5°)	0.5	25.0	-	-	-	RNAV5
BARMI1G	003	TF	ODROB	513915.11N 0015445.17E	N	206° (206.2°)	0.5	30.2	RIGHT	FL220	-	RNAV5
BARMI1G	004	TF	TEBRA	512920.30N 0013643.00E	N	228° (228.7°)	0.5	15.0	RIGHT	-	-	RNAV5
BARMI1G	005	TF	ABTUM	512603.66N 0012228.98E	N	249° (249.9°)	0.5	9.5	LEFT	FL140	-	RNAV5
BARMI1G	006	TF	ARNUN	510325.98N 0005552.98E	N	216° (216.6°)	0.5	28.2	RIGHT	-	-	RNAV5
BARMI1G	007	TF	KKE63	505856.70N 0004051.78E	N	244° (244.7°)	0.5	10.5	-	-	-250	RNAV5
BARMI1G	008	TF	LARCK	505441.83N 0002647.93E	N	244° (244.6°)	0.5	9.9	RIGHT	-	-250	RNAV5
BARMI1G	009	TF	TIMBA	505643.99N 0001542.25E	N	286° (286.2°)	0.5	7.3	-	FL070	-220	RNAV5

LONDON GATWICK TEBRA 2G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TEBRA2G	001	IF	TEBRA	512920.30N 0013643.00E	N	-	-	-	-	-	-	RNAV5
TEBRA2G	002	TF	ABTUM	512603.66N 0012228.98E	N	249° (249.9°)	0.5	9.5	LEFT	FL140	-	RNAV5
TEBRA2G	003	TF	ARNUN	510325.98N 0005552.98E	N	216° (216.6°)	0.5	28.2	RIGHT	-	-	RNAV5
TEBRA2G	004	TF	KKE63	505856.70N 0004051.78E	N	244° (244.7°)	0.5	10.5	-	-	-250	RNAV5
TEBRA2G	005	TF	LARCK	505441.83N 0002647.93E	N	244° (244.6°)	0.5	9.9	RIGHT	-	-250	RNAV5
TEBRA2G	006	TF	TIMBA	505643.99N 0001542.25E	N	286° (286.2°)	0.5	7.3	-	FL070	-220	RNAV5

LONDON GATWICK KONAN 2G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KONAN2G	001	IF	KONAN	510750.75N 0020000.00E	N	-	-	-	-	-	-	RNAV5
KONAN2G	002	TF	ARNUN	510325.98N 0005552.98E	N	264° (264.2°)	0.5	40.7	LEFT	-	-	RNAV5
KONAN2G	003	TF	KKE63	505856.70N 0004051.78E	N	244° (244.7°)	0.5	10.5	-	-	-250	RNAV5
KONAN2G	004	TF	LARCK	505441.83N 0002647.93E	N	244° (244.6°)	0.5	9.9	RIGHT	-	-250	RNAV5
KONAN2G	005	TF	TIMBA	505643.99N 0001542.25E	N	286° (286.2°)	0.5	7.3	-	FL070	-220	RNAV5

CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 09 NOV 23

Standard Instrument Arrival Coding Tables

LONDON GATWICK MID 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MID1X	001	IF	MID	510314.23N 0003730.01W	N	-	-	-	-	-	-	RNAV5
MID1X	002	TF	ZOPHI	510126.60N 0000055.43W	N	094° (094.2°)	0.5	23.2	-	-	-250	RNAV5
MID1X	003	TF	MAY	510101.86N 0000658.04E	N	094° (094.7°)	0.5	5.0	RIGHT	-	-	RNAV5
MID1X	004	TF	OSDEB	505654.53N 0002447.85E	Y	109° (110.0°)	0.5	12.0	RIGHT	-	-220	RNAV5
MID1X	005	CF	TIMBA	505643.99N 0001542.25E	N	308° (308.6°)	0.5	-	-	FL070	-220	RNAV5

LONDON GATWICK NEVIL 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NEVIL1G	001	IF	NEVIL	500000.00N 0002205.64W	N	-	-	-	-	FL220	-	RNAV5
NEVIL1G	002	TF	OSPOL	500900.00N 0001107.84W	N	037° (038.0°)	0.5	11.4	RIGHT	-	-	RNAV5
NEVIL1G	003	TF	NETVU	502445.00N 0002854.00E	N	058° (058.2°)	0.5	30.1	-	FL140	-	RNAV5
NEVIL1G	004	TF	ELDAX	502918.36N 0003930.42E	N	055° (056.0°)	0.5	8.2	LEFT	-	-	RNAV5
NEVIL1G	005	TF	AMDUT	504027.90N 0004746.38E	N	025° (025.2°)	0.5	12.4	LEFT	-	-	RNAV5
NEVIL1G	006	TF	KKE64	504915.77N 0003030.52E	N	308° (308.9°)	0.5	14.1	-	-	-250	RNAV5
NEVIL1G	007	TF	TIMBA	505643.99N 0001542.25E	N	308° (308.7°)	0.5	12.0	-	FL070	-220	RNAV5

LONDON GATWICK KUNAV 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KUNAV1G	001	IF	KUNAV	503054.00N 0010356.00E	N	-	-	-	-	-	-	RNAV5
KUNAV1G	002	TF	AMDUT	504027.90N 0004746.38E	N	312° (313.0°)	0.5	14.1	LEFT	FL160	-	RNAV5
KUNAV1G	003	TF	KKE64	504915.77N 0003030.52E	N	308° (308.9°)	0.5	14.1	-	-	-250	RNAV5
KUNAV1G	004	TF	TIMBA	505643.99N 0001542.25E	N	308° (308.7°)	0.5	12.0	-	FL070	-220	RNAV5

CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 10 NOV 23

Standard Instrument Arrival Coding Tables

LONDON GATWICK OTMET 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OTMET1G	001	IF	OTMET	504055.06N 0023053.37W	N	-	-	-	-	FL270	-	RNAV1
OTMET1G	002	TF	SOKDU	503939.22N 0020133.06W	N	093° (093.7°)	0.5	18.7	LEFT	-	-	RNAV1
OTMET1G	003	TF	NEDUL	503958.00N 0013251.86W	N	088° (088.8°)	0.5	18.3	RIGHT	FL210	-	RNAV1
OTMET1G	004	TF	ELDER	503948.10N 0012013.93W	N	091° (091.1°)	0.5	8.0	LEFT	-	-	RNAV1
OTMET1G	005	TF	TELTU	504839.92N 0004517.69W	N	067° (068.0°)	0.5	23.9	RIGHT	FL130	-250	RNAV1
OTMET1G	006	TF	HOLLY	505312.18N 0000542.23W	Y	079° (079.5°)	0.5	25.5	LEFT	-	-220	RNAV1
OTMET1G	007	CF	WILLO	505905.88N 0001130.30W	N	283° (284.0°)	0.5	-	-	FL070	-220	RNAV1

LONDON GATWICK VASUX 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
VASUX1G	001	IF	VASUX	503009.23N 0011516.99W	N	-	-	-	-	-	-	RNAV1
VASUX1G	002	TF	DISVO	503931.38N 0010257.16W	N	039° (039.9°)	0.5	12.2	RIGHT	-	-	RNAV1
VASUX1G	003	TF	TELTU	504839.92N 0004517.69W	N	050° (050.7°)	0.5	14.5	RIGHT	FL130	-250	RNAV1
VASUX1G	004	TF	HOLLY	505312.18N 0000542.23W	Y	079° (079.5°)	0.5	25.5	LEFT	-	-220	RNAV1
VASUX1G	005	CF	WILLO	505905.88N 0001130.30W	N	283° (284.0°)	0.5	-	-	FL070	-220	RNAV1

LONDON GATWICK AMDUT 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AMDUT1G	001	IF	AMDUT	504027.90N 0004746.38E	N	-	-	-	-	-	-	RNAV1
AMDUT1G	002	TF	SFD	504538.48N 0000718.89E	N	281° (281.7°)	0.5	26.2	RIGHT	-	-220	RNAV1
AMDUT1G	003	TF	WILLO	505905.88N 0001130.30W	N	318° (318.6°)	0.5	18.0	-	FL070	-220	RNAV1

LONDON GATWICK ARNUN 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ARNUN1G	001	IF	ARNUN	510325.98N 0005552.98E	N	-	-	-	-	-	-	RNAV1
ARNUN1G	002	TF	HASTY	504342.46N 0003200.37E	N	217° (217.6°)	0.5	24.9	RIGHT	-	-	RNAV1
ARNUN1G	003	TF	SFD	504538.48N 0000718.89E	N	277° (277.2°)	0.5	15.8	RIGHT	-	-220	RNAV1
ARNUN1G	004	TF	WILLO	505905.88N 0001130.30W	N	318° (318.6°)	0.5	18.0	-	FL070	-220	RNAV1

CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 10 NOV 23

Standard Instrument Arrival Coding Tables

LONDON GATWICK TELTU 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TELTU1G	001	IF	TELTU	504839.92N 0004517.69W	N	-	-	-	-	-	-250	RNAV1
TELTU1G	002	TF	SFD	504538.48N 0000718.89E	N	094° (094.8°)	0.5	33.5	LEFT	-	-220	RNAV1
TELTU1G	003	TF	TIMBA	505643.99N 0001542.25E	N	025° (025.5°)	0.5	12.3	-	FL070	-220	RNAV1

LONDON GATWICK DISIT 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DISIT1G	001	IF	DISIT	520610.84N 0014240.91W	N	-	-	-	-	FL200	-	RNAV5
DISIT1G	002	TF	KIDLI	514617.00N 0012140.87W	N	146° (146.7°)	0.5	23.8	-	FL150	-	RNAV5
DISIT1G	003	TF	MID	510314.23N 0003730.01W	N	146° (147.0°)	0.5	51.2	LEFT	-	-	RNAV5
DISIT1G	004	TF	TUFOZ	510101.01N 0003024.31W	N	116° (116.4°)	0.5	5.0	-	-	-250	RNAV5
DISIT1G	005	TF	HOLLY	505312.18N 0000542.23W	Y	116° (116.4°)	0.5	17.5	LEFT	-	-220	RNAV5
DISIT1G	006	CF	WILLO	505905.88N 0001130.30W	N	283° (284.0°)	0.5	-	-	FL070	-220	RNAV5

LONDON GATWICK KIDLI 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KIDLI1G	001	IF	KIDLI	514617.00N 0012140.87W	N	-	-	-	-	FL150	-	RNAV5
KIDLI1G	002	TF	MID	510314.23N 0003730.01W	N	146° (147.0°)	0.5	51.2	LEFT	-	-	RNAV5
KIDLI1G	003	TF	TUFOZ	510101.01N 0003024.31W	N	116° (116.4°)	0.5	5.0	-	-	-250	RNAV5
KIDLI1G	004	TF	HOLLY	505312.18N 0000542.23W	Y	116° (116.4°)	0.5	17.5	LEFT	-	-220	RNAV5
KIDLI1G	005	CF	WILLO	505905.88N 0001130.30W	N	283° (284.0°)	0.5	-	-	FL070	-220	RNAV5

CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 10 NOV 23

Standard Instrument Arrival Coding Tables

LONDON GATWICK ABSAV 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ABSAV1G	001	IF	ABSAV	503828.94N 0011029.05W	N	-	-	-	-	-	-	RNAV5
ABSAV1G	002	TF	AVANT	504912.00N 0005618.05W	N	039° (039.9°)	0.5	14.0	RIGHT	-	-	RNAV5
ABSAV1G	003	TF	GWC	505118.79N 0004524.25W	N	072° (072.9°)	0.5	7.2	RIGHT	FL130	-220	RNAV5
ABSAV1G	004	TF	HOLLY	505312.18N 0000542.23W	Y	085° (085.4°)	0.5	25.2	LEFT	-	-	RNAV5
ABSAV1G	005	CF	WILLO	505905.88N 0001130.30W	N	283° (284.0°)	0.5	-	-	FL070	-220	RNAV5

LONDON GATWICK GWC 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GWC1G	001	IF	GWC	505118.79N 0004524.25W	N	-	-	-	-	FL130	-220	RNAV5
GWC1G	002	TF	HOLLY	505312.18N 0000542.23W	Y	085° (085.4°)	0.5	25.2	LEFT	-	-	RNAV5
GWC1G	003	CF	WILLO	505905.88N 0001130.30W	N	283° (284.0°)	0.5	-	-	FL070	-220	RNAV5

LONDON GATWICK SIRIC 1G

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SIRIC1G	001	IF	SIRIC	512036.17N 0013358.89W	N	-	-	-	-	FL140	-	RNAV1
SIRIC1G	002	TF	NIGIT	511846.96N 0011014.71W	N	096° (096.8°)	0.5	15.0	RIGHT	-	-	RNAV1
SIRIC1G	003	TF	MID	510314.23N 0003730.01W	N	126° (126.9°)	0.5	25.8	LEFT	-	-	RNAV1
SIRIC1G	004	TF	TUFOZ	510101.01N 0003024.31W	N	116° (116.4°)	0.5	5.0	-	-	-250	RNAV1
SIRIC1G	005	TF	HOLLY	505312.18N 0000542.23W	Y	116° (116.4°)	0.5	17.5	LEFT	-	-220	RNAV1
SIRIC1G	006	CF	WILLO	505905.88N 0001130.30W	N	283° (284.0°)	0.5	-	-	FL070	-220	RNAV1

CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 09 NOV 23

RNAV Hold Coding Tables

LONDON GATWICK ADLOG Hold

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ADLOG	-	-	ADLOG	501925.00N 0004933.40W	Y	005° (005.3°)	0.5	1.5MIN	RIGHT	-FL260 +FL130	-240	RNAV5

LONDON GATWICK AMDUT Hold

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AMDUT	-	-	AMDUT	504027.90N 0004746.38E	Y	312° (313.0°)	0.5	1MIN up to FL140 1.5MIN FL150+	RIGHT	-FL190 +FL160	-	RNAV5

LONDON GATWICK ARNUN Hold

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ARNUN	-	-	ARNUN	510325.98N 0005552.98E	Y	216° (216.6°)	0.5	1MIN	RIGHT	-FL140 +FL100	-220	RNAV5

LONDON GATWICK BILNI Hold

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BILNI	-	-	BILNI	504031.08N 0020732.56W	Y	106° (106.5°)	0.5	1.5MIN	LEFT	-FL300 +FL200	-240	RNAV5

LONDON GATWICK DELBO Hold

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DELBO	-	-	DELBO	515236.92N 0011624.01W	Y	153° (153.2°)	0.5	1.5MIN	RIGHT	-FL200 +FL150	-240	RNAV5

LONDON GATWICK DOMUT Hold

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DOMUT	-	-	DOMUT	501542.57N 0014008.65W	Y	039° (039.6°)	0.5	1.5MIN	RIGHT	+FL230	-240	RNAV5

LONDON GATWICK GOKTU Hold

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GOKTU	-	-	GOKTU	501504.87N 0012244.57W	Y	017° (017.5°)	0.5	1.5MIN	RIGHT	-FL300 +FL200	-240	RNAV5

CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 10 NOV 23

RNAV Hold Coding Tables

LONDON GATWICK GWC Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GWC	-	-	GWC	505118.79N 0004524.25W	Y	175° (175.7°)	0.5	1MIN	LEFT	-FL130 +FL070	-220	RNAV5

LONDON GATWICK KATHY Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KATHY	-	-	KATHY	503113.59N 0012000.23W	Y	039° (039.6°)	0.5	1.5MIN	LEFT	-FL190 +FL160	-240	RNAV5

LONDON GATWICK TIMBA Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TIMBA	-	-	TIMBA	505643.99N 0001542.25E	Y	308° (308.6°)	0.5	1MIN up to FL140 1.5MIN FL150+	RIGHT	-FL150 +FL070	-220*	RNAV5

*up to and including FL140 std speed FL150

LONDON GATWICK WILLO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WILLO	-	-	WILLO	505905.88N 0001130.30W	Y	283° (284.0°)	0.5	5.1NM	LEFT	-FL150 +FL070	-220*	RNAV1/ RNAV5

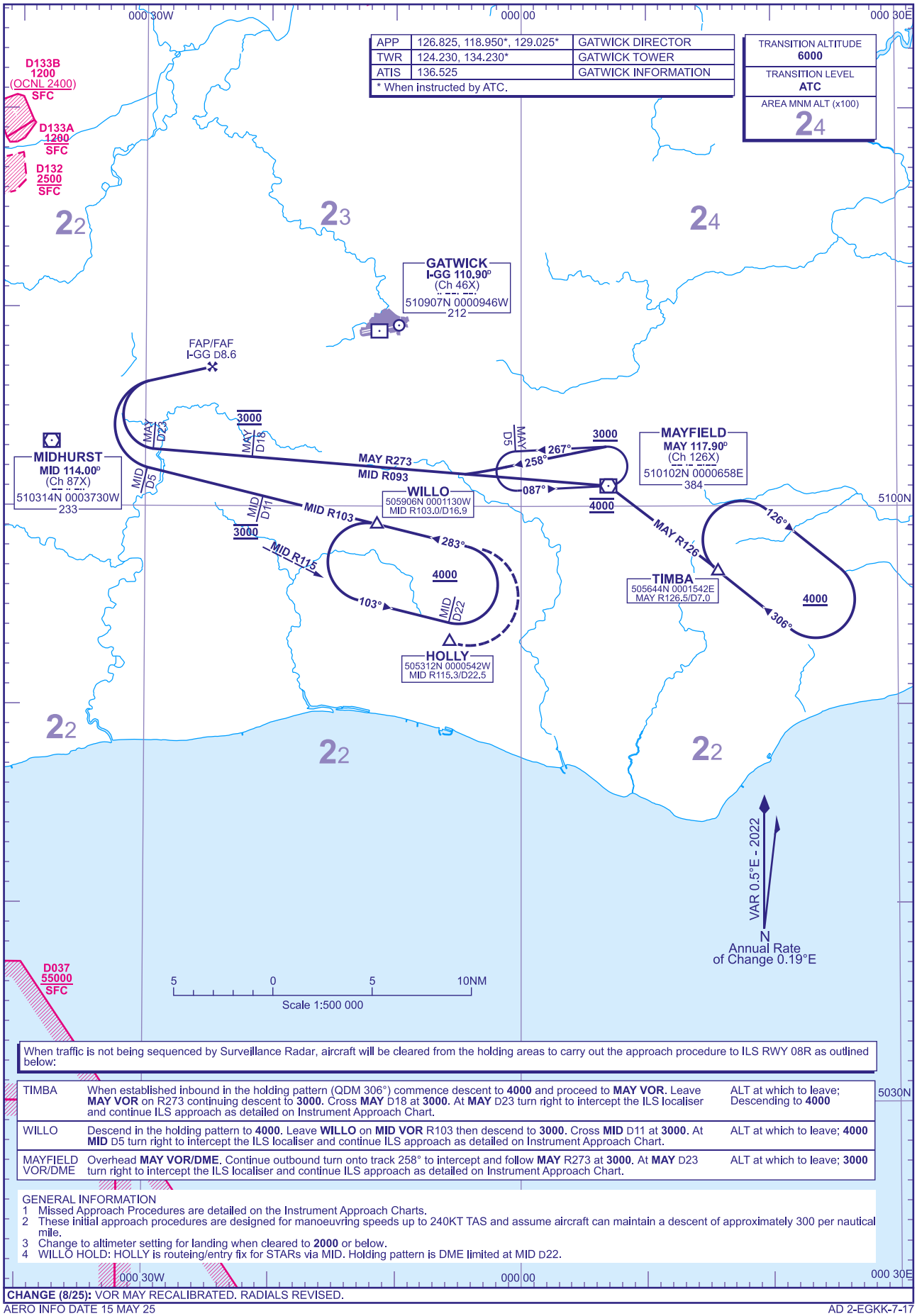
*up to and including FL140 std speed FL150

CHANGE (1/24): SPECIFICATION CHANGE.
AERO INFO DATE 07 NOV 23

INITIAL APPROACH PROCEDURES
ILS RWY 08R Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK



When traffic is not being sequenced by Surveillance Radar, aircraft will be cleared from the holding areas to carry out the approach procedure to ILS RWY 08R as outlined below:

TIMBA	When established inbound in the holding pattern (QDM 306°) commence descent to **4000** and proceed to **MAY VOR**. Leave **MAY VOR** on R273 continuing descent to **3000**. Cross **MAY** D18 at **3000**. At **MAY** D23 turn right to intercept the ILS localiser and continue ILS approach as detailed on Instrument Approach Chart.	ALT at which to leave; Descending to **4000**
WILLO	Descend in the holding pattern to **4000**. Leave **WILLO** on **MID VOR** R103 then descend to **3000**. Cross **MID** D11 at **3000**. At **MID** D5 turn right to intercept the ILS localiser and continue ILS approach as detailed on Instrument Approach Chart.	ALT at which to leave; **4000**
MAYFIELD VOR/DME	Overhead **MAY VOR/DME**. Continue outbound turn onto track 258° to intercept and follow **MAY** R273 at **3000**. At **MAY** D23 turn right to intercept the ILS localiser and continue ILS approach as detailed on Instrument Approach Chart.	ALT at which to leave; **3000**

GENERAL INFORMATION
1 Missed Approach Procedures are detailed on the Instrument Approach Charts.
2 These initial approach procedures are designed for manoeuvring speeds up to 240KT TAS and assume aircraft can maintain a descent of approximately 300 per nautical mile.
3 Change to altimeter setting for landing when cleared to **2000** or below.
4 WILLO HOLD: HOLLY is routeing/entry fix for STARs via MID. Holding pattern is DME limited at MID D22.

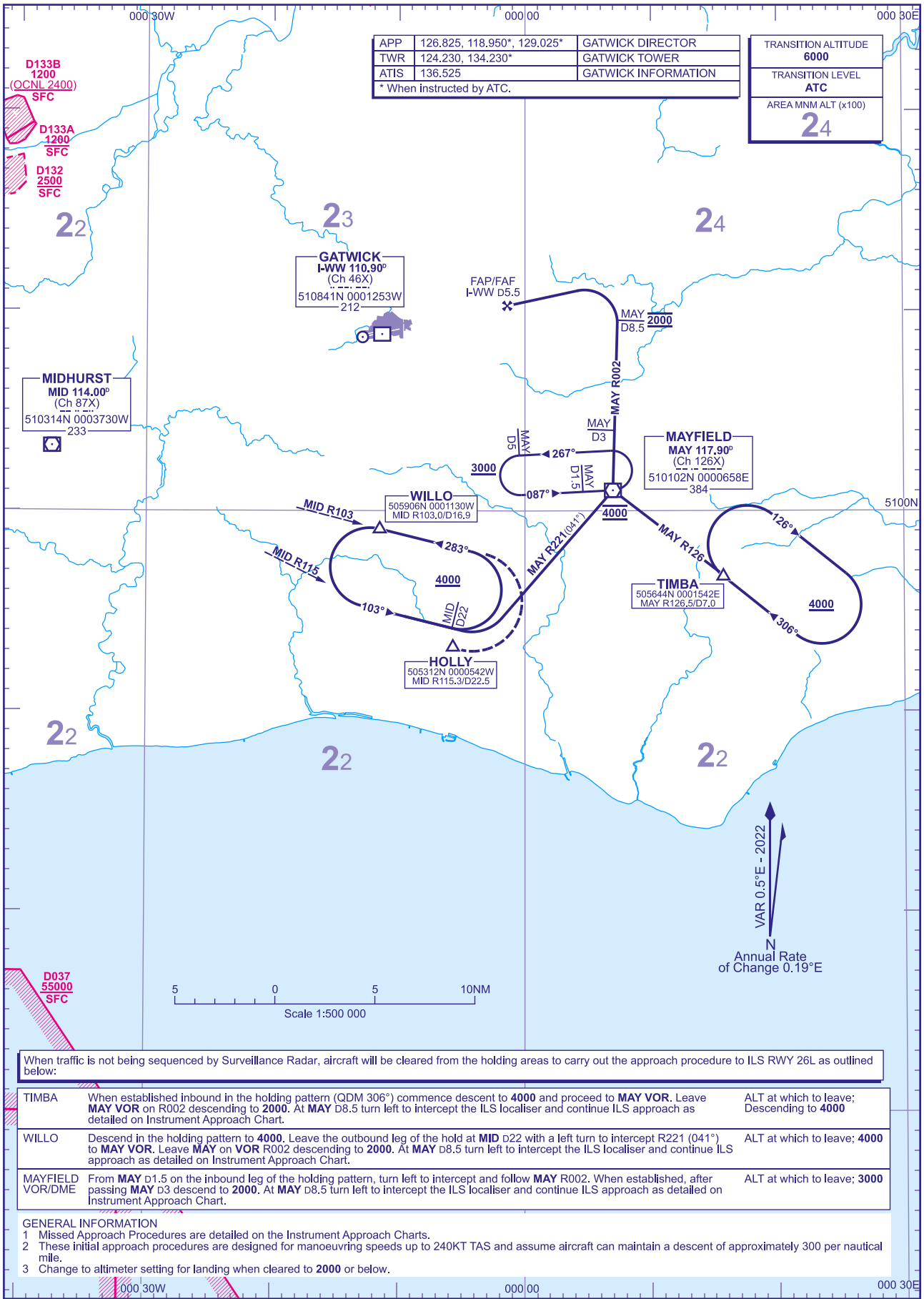
CHANGE (8/25): VOR MAY RECALIBRATED. RADIALS REVISED.

AERO INFO DATE 15 MAY 25

INITIAL APPROACH PROCEDURES
ILS RWY 26L Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON GATWICK



When traffic is not being sequenced by Surveillance Radar, aircraft will be cleared from the holding areas to carry out the approach procedure to ILS RWY 26L as outlined below:

TIMBA	When established inbound in the holding pattern (QDM 306°) commence descent to **4000** and proceed to **MAY VOR**. Leave **MAY VOR** on R002 descending to **2000**. At **MAY** D8.5 turn left to intercept the ILS localiser and continue ILS approach as detailed on Instrument Approach Chart.	ALT at which to leave; Descending to **4000**
WILLO	Descend in the holding pattern to **4000**. Leave the outbound leg of the hold at **MID** D22 with a left turn to intercept R221 (041°) to **MAY VOR**. Leave **MAY** on **VOR** R002 descending to **2000**. At **MAY** D8.5 turn left to intercept the ILS localiser and continue ILS approach as detailed on Instrument Approach Chart.	ALT at which to leave; **4000**
MAYFIELD VOR/DME	From **MAY** D1.5 on the inbound leg of the holding pattern, turn left to intercept and follow **MAY** R002. When established, after passing **MAY** D3 descend to **2000**. At **MAY** D8.5 turn left to intercept the ILS localiser and continue ILS approach as detailed on Instrument Approach Chart.	ALT at which to leave; **3000**

GENERAL INFORMATION
1 Missed Approach Procedures are detailed on the Instrument Approach Charts.
2 These initial approach procedures are designed for manoeuvring speeds up to 240KT TAS and assume aircraft can maintain a descent of approximately 300 per nautical mile.
3 Change to altimeter setting for landing when cleared to **2000** or below.

CHANGE (8/25): VOR MAY RECALIBRATED. RADIALS REVISED.

AERO INFO DATE 13 MAY 25

AD 2-EGKK-7-18

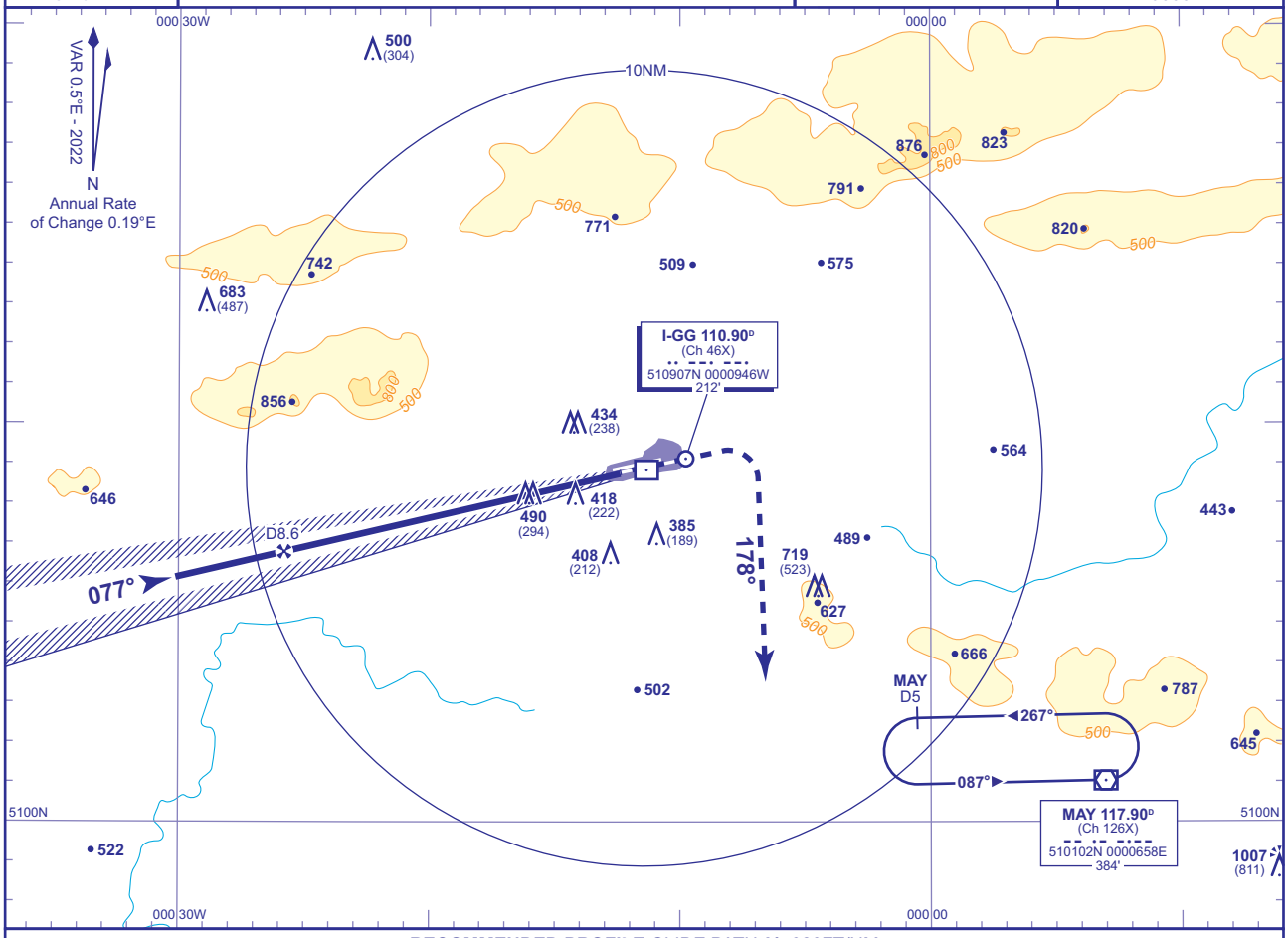
INSTRUMENT APPROACH CHART - ICAO

LONDON GATWICK
ILS/DME
RWY 08R
(ACFT CAT A,B,C,D)



APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	AD ELEVATION	203
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	THR ELEVATION	196
	121.805	GATWICK GROUND	OBSTACLE ELEVATION 1007 AMSL (811) (ABOVE THR)	
ATIS	136.525	GATWICK INFORMATION	BEARINGS ARE MAGNETIC	

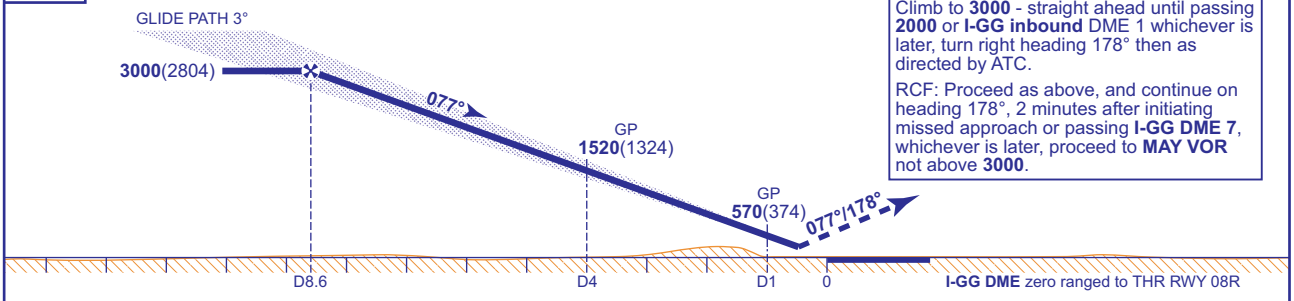
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-GG	8	7	6	5	4	3	2
ALT(HGT)	**2800**(2604)	**2480**(2284)	**2160**(1964)	**1840**(1644)	**1520**(1324)	**1200**(1004)	**880**(684)

RDH 51



Climb to **3000** - straight ahead until passing **2000** or **I-GG inbound** DME 1 whichever is later, turn right heading 178° then as directed by ATC.

RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-GG DME 7**, whichever is later, proceed to **MAY VOR** not above **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**338**(142)	**349**(153)	**364**(168)	**384**(188)
	CAT II	**245**(49)	**255**(59)	**268**(72)	**284**(88)
VM(C)OCA (OCH AAL)	Total Area	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

FOR AIRCRAFT UNABLE TO RECEIVE DME I-GG :
Equivalent radar ranges will be provided to the aircraft when established on the localiser, approaching the nominal Final Approach Point and 4NM points.

NOTE 1 For arrival and initial approach procedures see AD 2-EGKK-7-17.

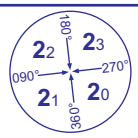
CHANGE (5/25): VM(C)OCA(OCH AAL) CAT C. OCA(OCH) CAT I CAT A/B/C/D CAT II CAT A/D.

AERO INFO DATE 24 FEB 25

AD 2-EGKK-8-1

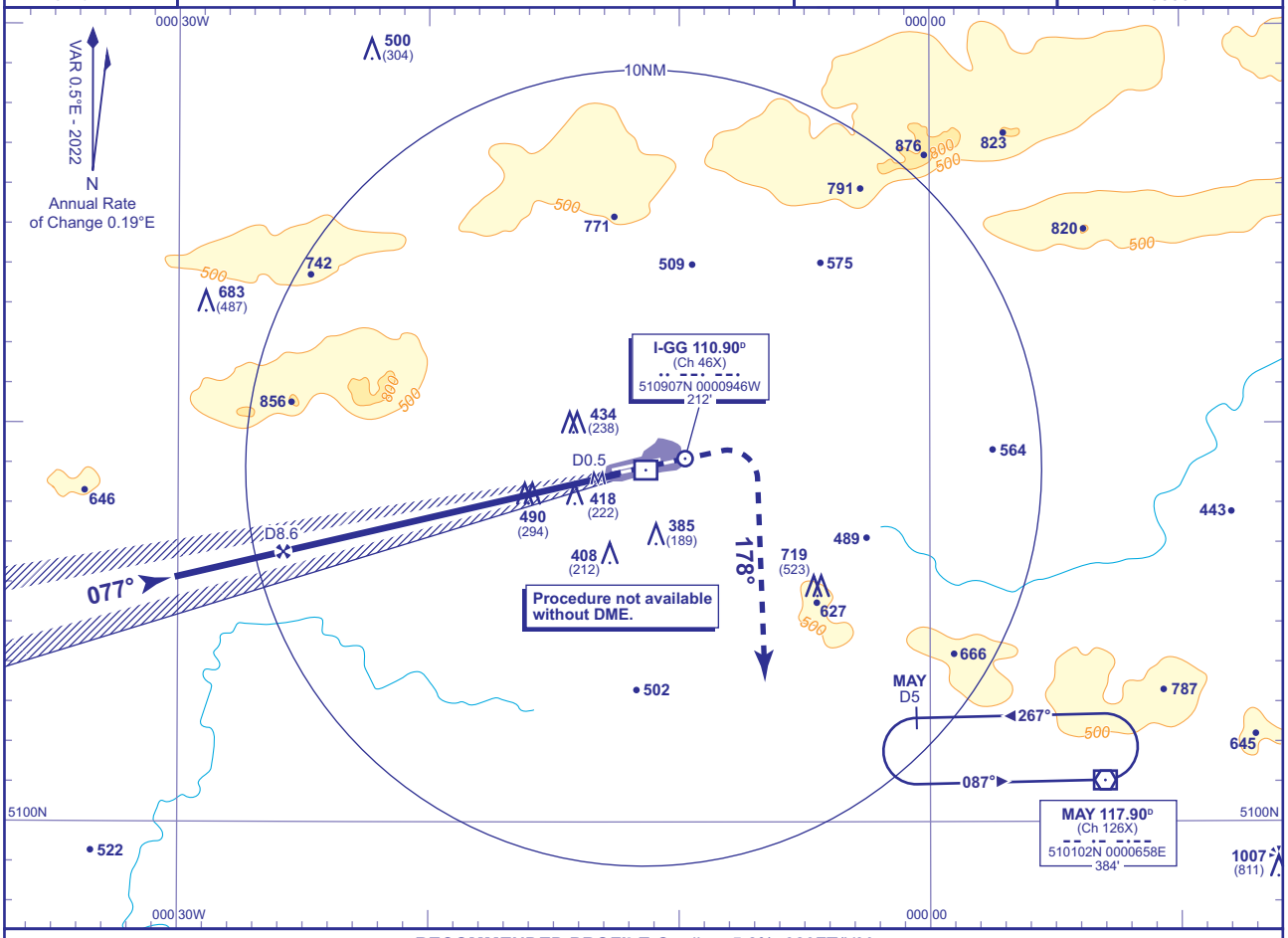
INSTRUMENT APPROACH CHART - ICAO

LONDON GATWICK
LOC/DME
RWY 08R
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	AD ELEVATION	**203**	TRANSITION ALTITUDE **6000**
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	THR ELEVATION	**196**	
	121.805	GATWICK GROUND	OBSTACLE ELEVATION **1007 AMSL** (811) (ABOVE THR)		
ATIS	136.525	GATWICK INFORMATION	BEARINGS ARE MAGNETIC		



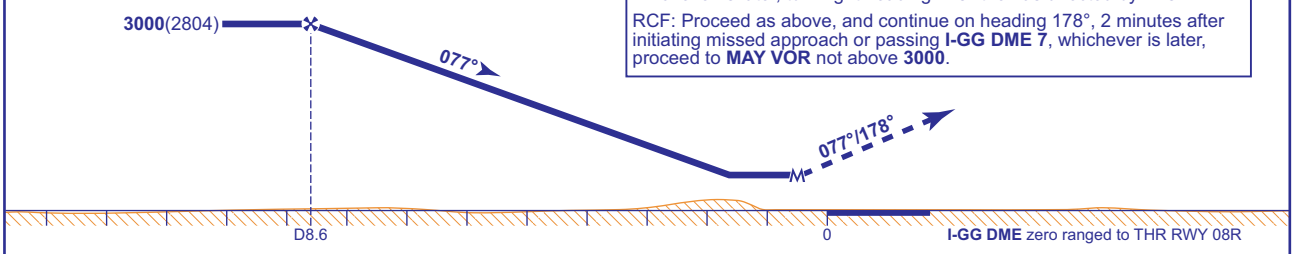
RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-GG	8	7	6	5	4	3	2
ALT(HGT)	**2800**(2604)	**2480**(2284)	**2160**(1964)	**1840**(1644)	**1520**(1324)	**1200**(1004)	**880**(684)

MAPt I-GG DME 0.5

Climb to **3000** - straight ahead until passing **2000** or **I-GG inbound** DME 1 whichever is later, turn right heading 178° then as directed by ATC.

RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-GG DME 7**, whichever is later, proceed to **MAY VOR** not above **3000**.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**740**(544)	**740**(544)	**740**(544)	**740**(544)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

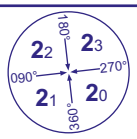
NOTE 1 For arrival and initial approach procedures see AD 2-EGKK-7-17.

CHANGE (5/25): VM(C)OCA(OCH AAL) CAT C.

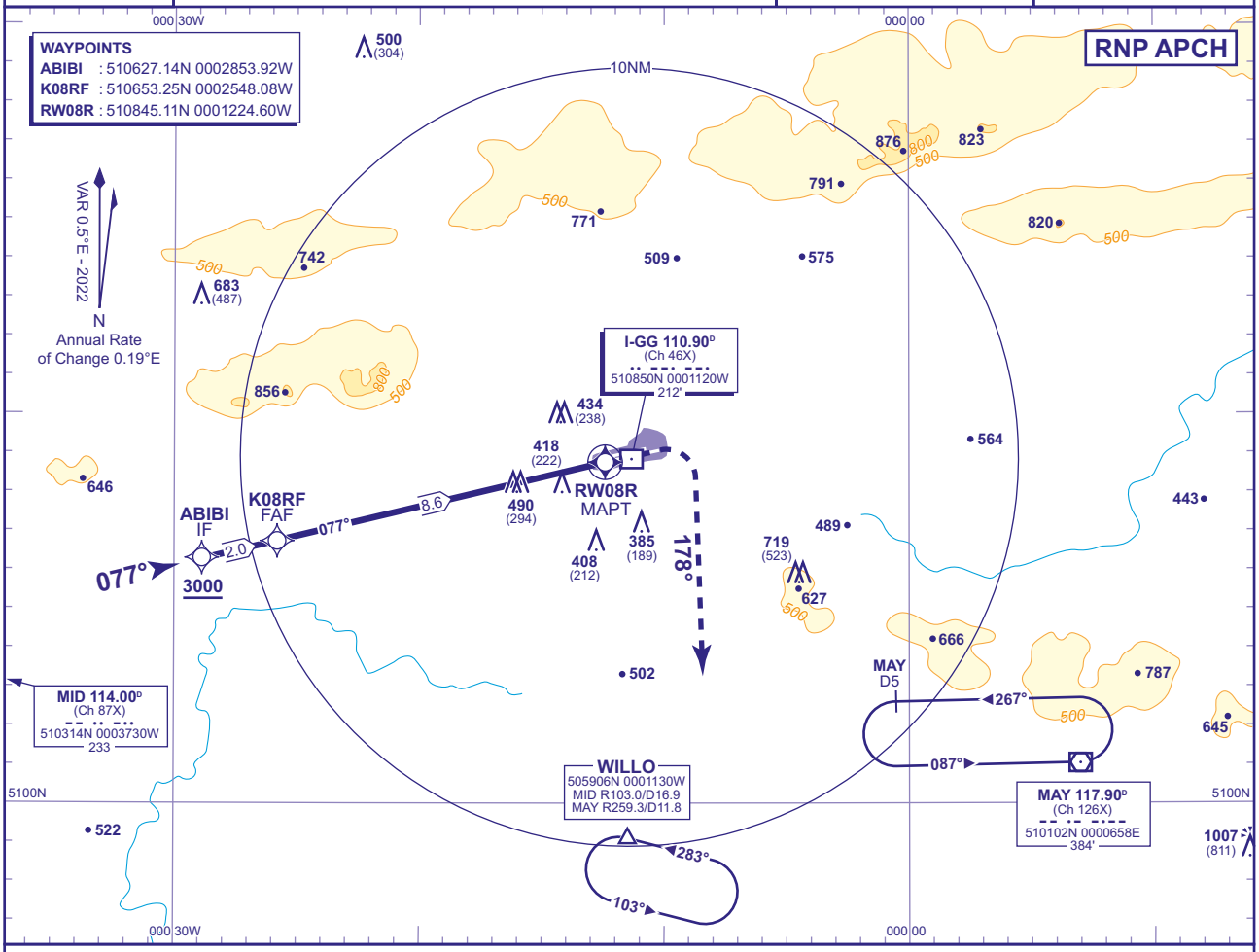
AERO INFO DATE 24 FEB 25 AD 2-EGKK-8-2

INSTRUMENT APPROACH CHART - ICAO

LONDON GATWICK
RNP
RWY 08R
(ACFT CAT A,B,C,D)



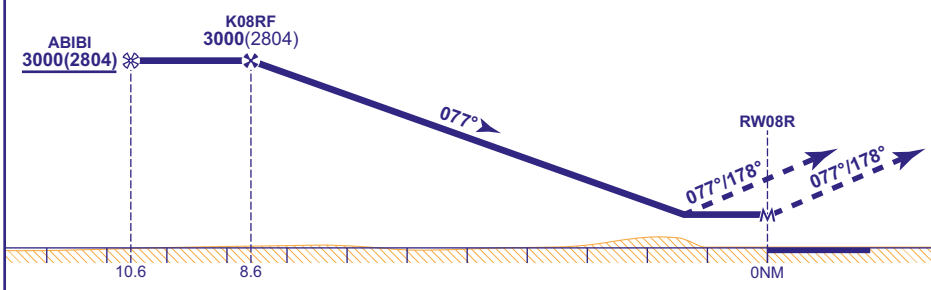
APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	AD ELEVATION	203	MIN TEMP -10°C
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	THR ELEVATION	196	TRANSITION ALTITUDE 6000
	121.805	GATWICK GROUND	OBSTACLE ELEVATION 1007 AMSL (811) (ABOVE THR)		
ATIS	136.525	GATWICK INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV 5.24%), 318FT/NM

NM to RW08R	8	7	6	5	4	3	2
ALT(HGT)	**2800**(2604)	**2480**(2284)	**2160**(1964)	**1840**(1644)	**1520**(1324)	**1200**(1004)	**880**(684)

TCH 53



MAPt (LNAV): RW08R

Climb to **3000** - straight ahead until passing **2000** or **1NM** inbound **RW08R** whichever is later, turn right heading 178° then as directed by ATC.

RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-GG DME 7**, whichever is later, proceed to **MAY VOR** not above **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**700**(504)	**700**(504)	**700**(504)	**700**(504)
	LNAV	**740**(544)	**740**(544)	**740**(544)	**740**(544)
VM(C)OCA (OCH AAL)	Total Area	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

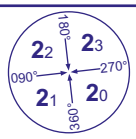
NOTE
1 Pilots should 'Request RNP Approach' on first contact with Gatwick Director.
2 Aircraft will be radar vectored to ABIBI.
3 In the event of radio communications failure, follow conventional arrival procedures to establish on final approach course.
4 See AD 2-EGKK-8-9 for data coding tables.
5 An early initiation of the missed approach may require pilot intervention with the RNP system in order to comply with the 1NM inbound turn initiation point.
6 The missed approach reverts to conventional navigation after passing **2000**.

CHANGE (8/25): MID/MAY VOR RECALIBRATED. WILLO HOLD REVISED.

AERO INFO DATE 23 MAY 25

INSTRUMENT APPROACH CHART - ICAO

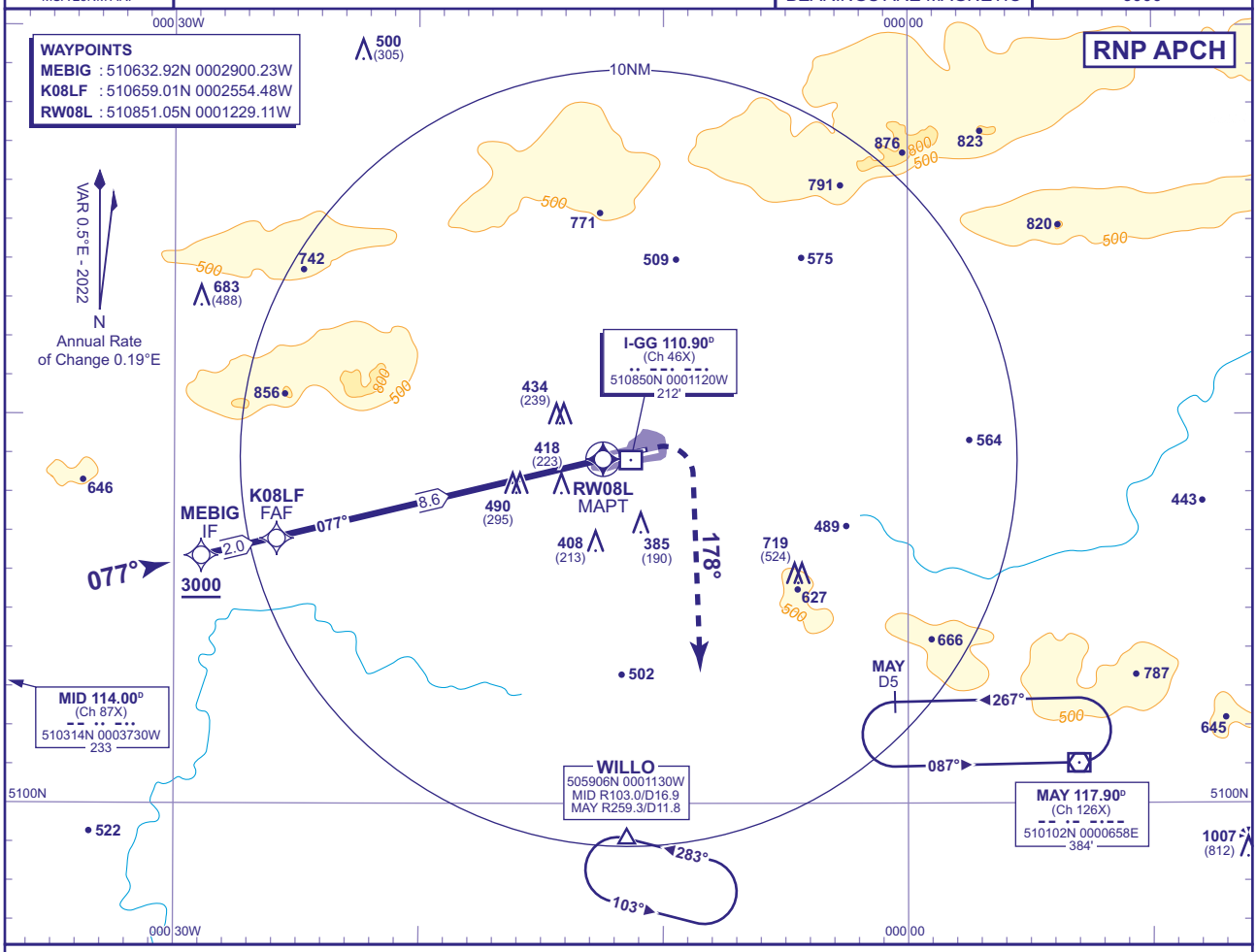
LONDON GATWICK
RNP
RWY 08L
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	AD ELEVATION 203
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	THR ELEVATION 195
	121.805	GATWICK GROUND	OBSTACLE ELEVATION 1007 AMSL (812) (ABOVE THR)
ATIS	136.525	GATWICK INFORMATION	BEARINGS ARE MAGNETIC

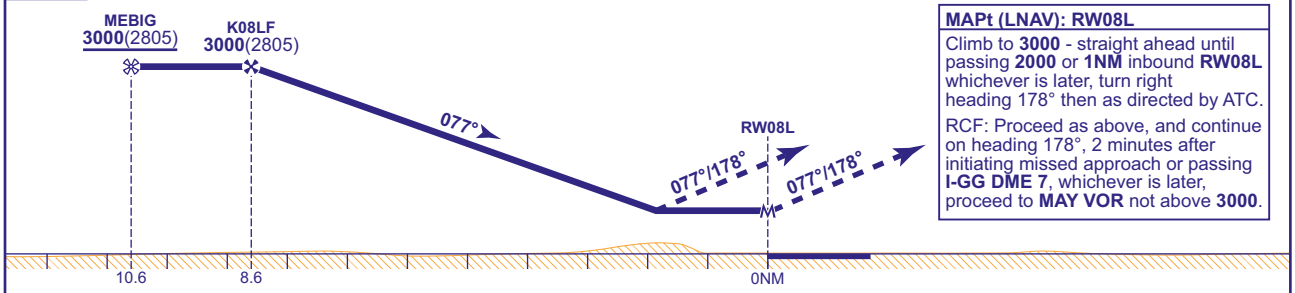
MIN TEMP **-10°C**
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV 5.24%), 318FT/NM

NM to RW08L	8	7	6	5	4	3	2
ALT(HGT)	**2790**(2595)	**2470**(2275)	**2160**(1965)	**1840**(1645)	**1520**(1325)	**1200**(1005)	**880**(685)

TCH 50



MAPt (LNAV): RW08L
Climb to **3000** - straight ahead until passing **2000** or **1NM** inbound **RW08L** whichever is later, turn right heading 178° then as directed by ATC.
RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-GG DME 7**, whichever is later, proceed to **MAY VOR** not above **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**850**(655)	**850**(655)	**850**(655)	**900**(705)
	LNAV	**850**(655)	**850**(655)	**850**(655)	**900**(705)
VM(C)OCA (OCH AAL)	Total Area	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

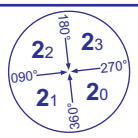
NOTE 1 Pilots should 'Request RNP Approach' on first contact with Gatwick Director.
2 Aircraft will be radar vectored to MEBIG.
3 In the event of radio communications failure, follow conventional arrival procedures to establish on final approach course.
4 See AD 2-EGKK-8-9 for data coding tables.
5 An early initiation of the missed approach may require pilot intervention with the RNP system in order to comply with the 1NM inbound turn initiation point.
6 The missed approach reverts to conventional navigation after passing **2000**.

CHANGE (8/25): MID/MAY VOR RECALIBRATED. WILLO HOLD REVISED.

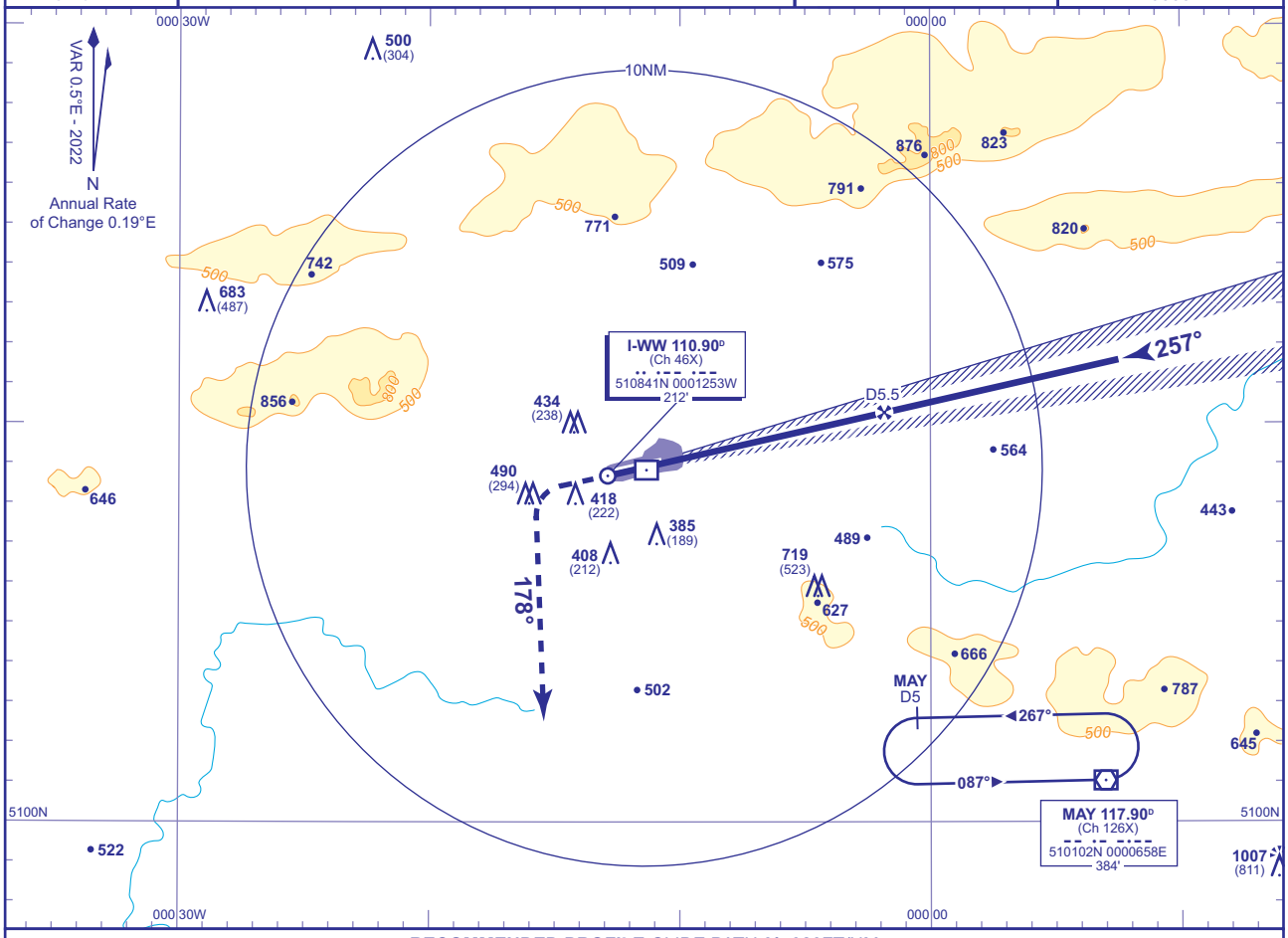
AERO INFO DATE 23 MAY 25 AD 2-EGKK-8-4

INSTRUMENT APPROACH CHART - ICAO

LONDON GATWICK
ILS/DME
RWY 26L
(ACFT CAT A,B,C,D)



APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	AD ELEVATION	**203**	TRANSITION ALTITUDE **6000**
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	THR ELEVATION	**196**	
	121.805	GATWICK GROUND	OBSTACLE ELEVATION **1007 AMSL** (811) (ABOVE THR)		
ATIS	136.525	GATWICK INFORMATION	BEARINGS ARE MAGNETIC		



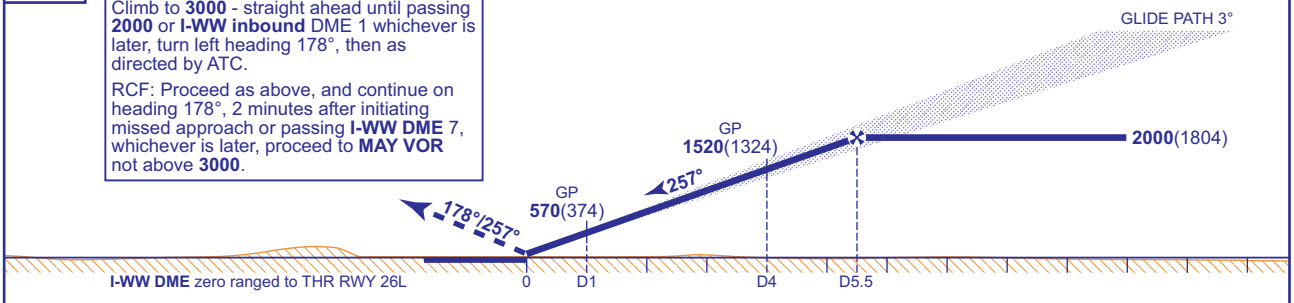
RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-WW	5	4	3	2
ALT(HGT)	**1840**(1644)	**1520**(1324)	**1200**(1004)	**880**(684)

RDH 52

Climb to **3000** - straight ahead until passing **2000** or **I-WW inbound** DME 1 whichever is later, turn left heading 178°, then as directed by ATC.

RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-WW DME** 7, whichever is later, proceed to **MAY VOR** not above **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	**CAT I**	**348**(152)	**358**(162)	**374**(178)	**393**(197)
	CAT II	**269**(73)	**272**(76)	**279**(83)	**295**(99)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

FOR AIRCRAFT UNABLE TO RECEIVE DME I-WW :
Equivalent radar ranges will be provided to the aircraft when established on the localiser, approaching the nominal Final Approach Point and 4NM points.

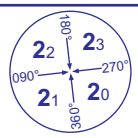
NOTE 1 For arrival and initial approach procedures see AD 2-EGKK-7-18.

CHANGE (5/25): VM(C)OCA(OCH AAL) CAT C. OCA(OCH).

AERO INFO DATE 24 FEB 25

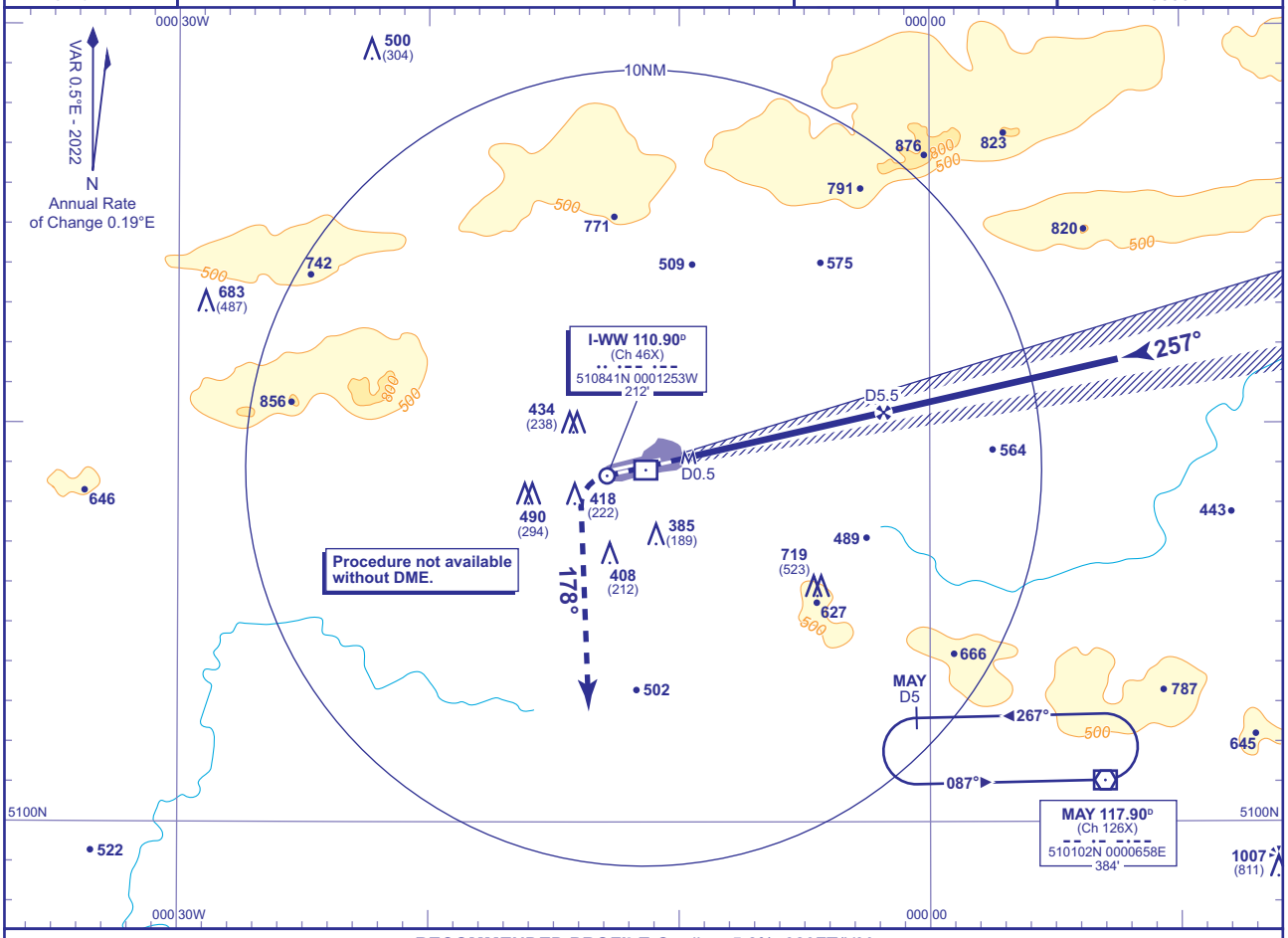
INSTRUMENT APPROACH CHART - ICAO

LONDON GATWICK
LOC/DME
RWY 26L
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	AD ELEVATION	**203**	TRANSITION ALTITUDE **6000**
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	THR ELEVATION	**196**	
	121.805	GATWICK GROUND	OBSTACLE ELEVATION **1007 AMSL** (811) (ABOVE THR)		
ATIS	136.525	GATWICK INFORMATION	BEARINGS ARE MAGNETIC		



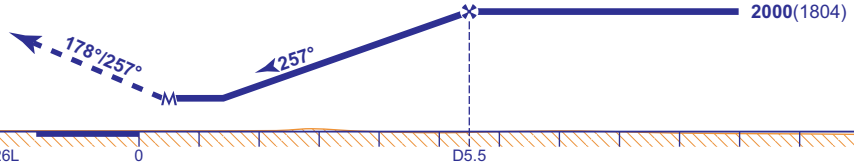
RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-WW	5	4	3	2
ALT(HGT)	**1840**(1644)	**1520**(1324)	**1200**(1004)	**880**(684)

MAPt I-WW DME 0.5

Climb to **3000** - straight ahead until passing **2000** or **I-WW inbound** DME 1 whichever is later, turn left heading 178°, then as directed by ATC.

RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-WW DME** 7, whichever is later, proceed to **MAY VOR** not above **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**610**(414)	**610**(414)	**610**(414)	**610**(414)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

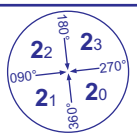
NOTE 1 For arrival and initial approach procedures see AD 2-EGKK-7-18.

CHANGE (5/25): VM(C)OCA(OCH AAL) CAT C. OCA(OCH).

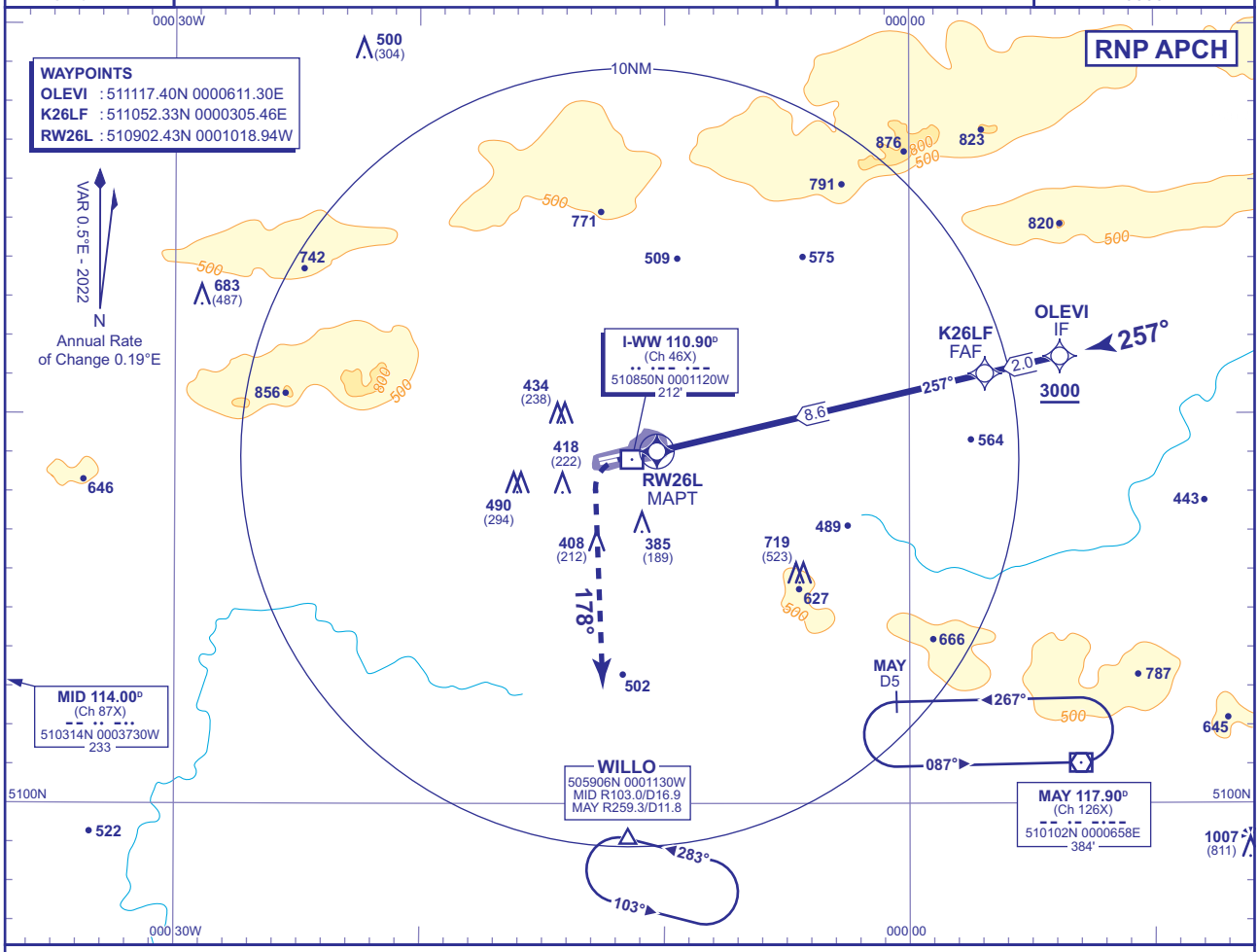
AERO INFO DATE 24 FEB 25 AD 2-EGKK-8-6

INSTRUMENT APPROACH CHART - ICAO

LONDON GATWICK
RNP
RWY 26L
(ACFT CAT A,B,C,D)



APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	AD ELEVATION	203	MIN TEMP -10°C
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	THR ELEVATION	196	TRANSITION ALTITUDE 6000
	121.805	GATWICK GROUND	OBSTACLE ELEVATION 1007 AMSL (811) (ABOVE THR)		
ATIS	136.525	GATWICK INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV 5.24%), 318FT/NM.

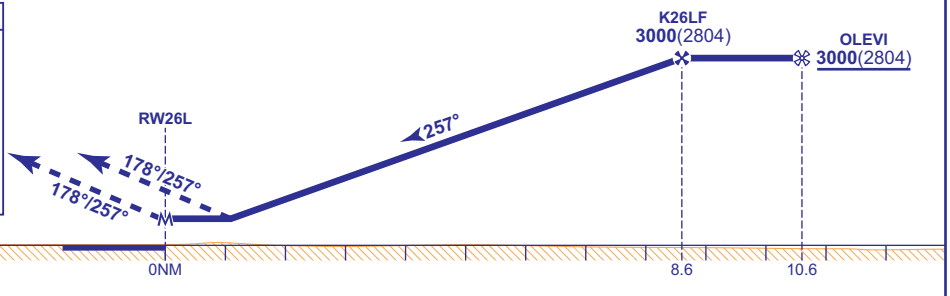
NM to RW26L	8	7	6	5	4	3	2
ALT(HGT)	**2790**(2594)	**2480**(2284)	**2160**(1964)	**1840**(1644)	**1520**(1324)	**1200**(1004)	**880**(684)

TCH 53

MAPt (LNAV): RW26L

Climb to **3000** - straight ahead until passing **2000** or **1NM** inbound **RW26L** whichever is later, turn left heading 178°, then as directed by ATC.

RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-WW DME** 7, whichever is later, proceed to **MAY VOR** not above **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**580**(384)	**580**(384)	**580**(384)	**580**(384)
	LNAV	**610**(414)	**610**(414)	**610**(414)	**610**(414)
VM(C)OCA (OCH AAL)	Total Area	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

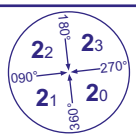
NOTE 1 Pilots should 'Request RNP Approach' on first contact with Gatwick Director.
2 Aircraft will be radar vectored to OLEVI.
3 In the event of radio communications failure, follow conventional arrival procedures to establish on final approach course.
4 See AD 2-EGKK-8-9 for data coding tables.
5 An early initiation of the missed approach may require pilot intervention with the RNP system in order to comply with the 1NM inbound turn initiation point.
6 The missed approach reverts to conventional navigation after passing **2000**.

CHANGE (8/25): MID/MAY VOR RECALIBRATED. WILLO HOLD REVISED.

AERO INFO DATE 23 MAY 25

INSTRUMENT APPROACH CHART - ICAO

LONDON GATWICK
RNP
RWY 26R
(ACFT CAT A,B,C,D)

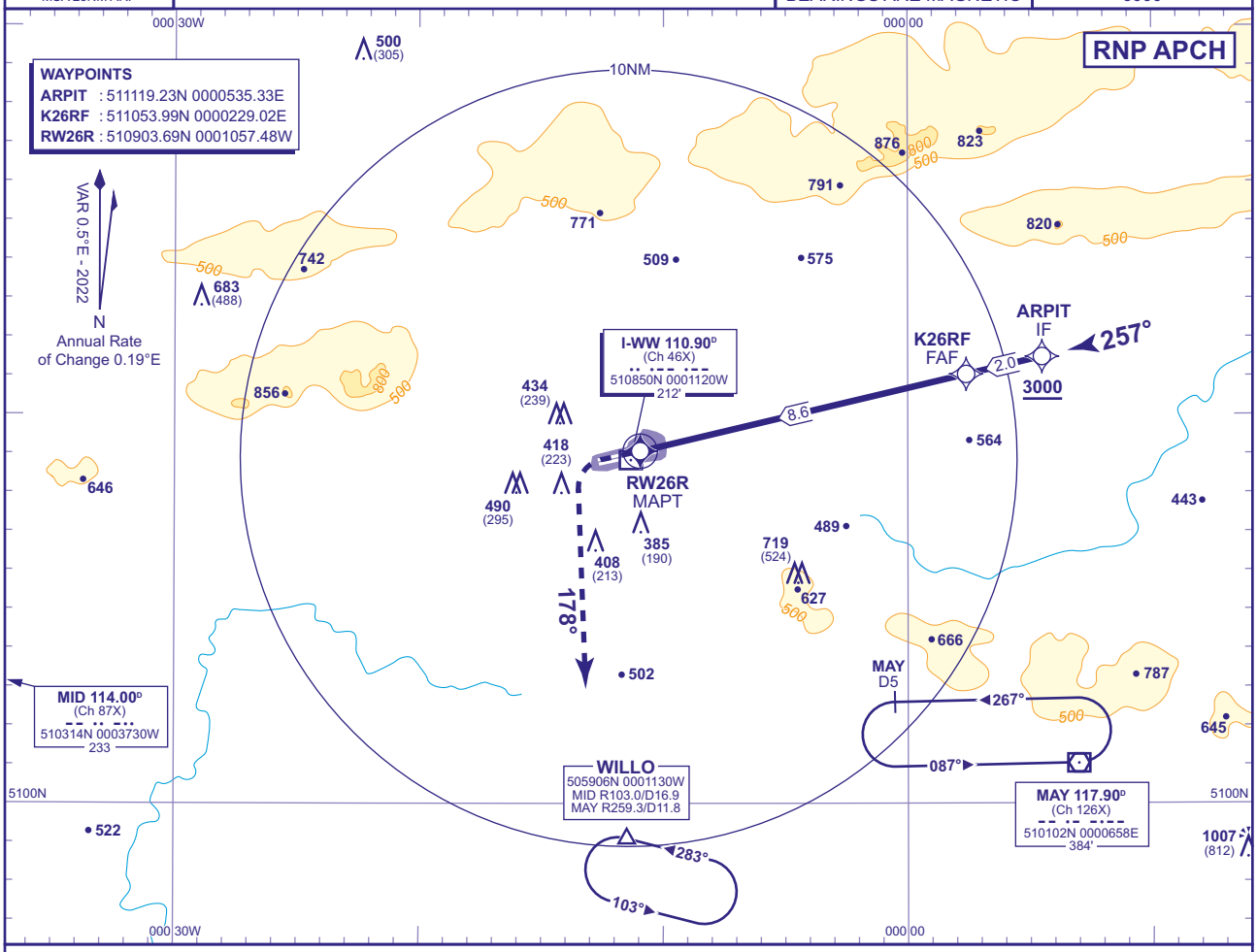


MSA 25NM ARP

APP	126.825, 118.950, 129.025	GATWICK DIRECTOR	
TWR	124.230, 134.230, 121.500*	GATWICK TOWER (*Emergency)	
	121.805	GATWICK GROUND	
ATIS	136.525	GATWICK INFORMATION	

AD ELEVATION	**203**
THR ELEVATION	**195**
OBSTACLE ELEVATION	**1007 AMSL** (812) (ABOVE THR)
BEARINGS ARE MAGNETIC	

MIN TEMP **-10°C**
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV Gradient 5.24%), 318FT/NM

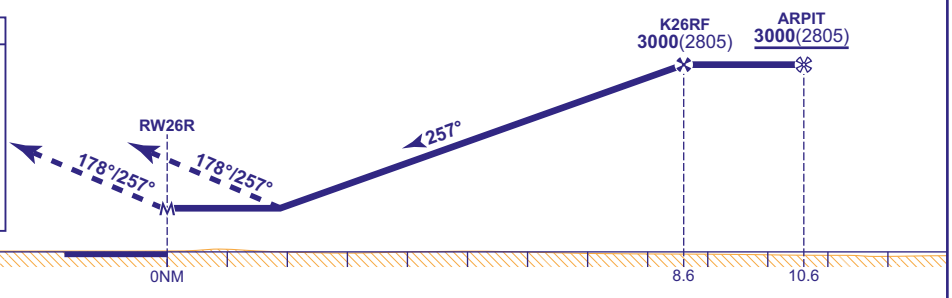
NM to RW26R	8	7	6	5	4	3	2
ALT(HGT)	**2790**(2595)	**2470**(2275)	**2160**(1965)	**1840**(1645)	**1520**(1325)	**1200**(1005)	**880**(685)

TCH 50

MAPt (LNAV): RW26R

Climb to **3000** - straight ahead until passing **2000** or **1NM** inbound **RW26R** whichever is later, turn left heading 178°, then as directed by ATC.

RCF: Proceed as above, and continue on heading 178°, 2 minutes after initiating missed approach or passing **I-WW DME** 7, whichever is later, proceed to **MAY VOR** not above **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	**LNAV/VNAV**	**850**(655)	**850**(655)	**850**(655)	**900**(705)
	LNAV	**850**(655)	**850**(655)	**850**(655)	**900**(705)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(597)	**800**(597)	**1020**(817)	**1120**(917)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 Pilots should 'Request RNP Approach' on first contact with Gatwick Director.
2 Aircraft will be radar vectored to ARPIT.
3 In the event of radio communications failure, follow conventional arrival procedures to establish on final approach course.
4 See AD 2-EGKK-8-9 for data coding tables.
5 An early initiation of the missed approach may require pilot intervention with the RNP system in order to comply with the 1NM inbound turn initiation point.
6 The missed approach reverts to conventional navigation after passing **2000**.

CHANGE (8/25): MID/MAY VOR RECALIBRATED. WILLO HOLD REVISED.

AERO INFO DATE 23 MAY 25

Instrument Approach Procedure Coding Tables

London Gatwick RNP RWY 08R - Instrument Approach Procedure via ABIBI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08R	001	IF	ABIBI	-	-	-	3000	-	510627.14N 0002853.92W	IF /10.6NM
R08R	002	TF	K08RF	-	077° (077.6°)	-	3000	-	510653.25N 0002548.08W	FAF / 8.6NM
R08R	003	TF	RW08R	Y	077° (077.6°)	-	-	-	510845.11N 0001224.60W	MAPt
R08R	004	CA	-	-	077° (077.6°)	-	2000	-	-	At 2000 revert to conventional navigation

London Gatwick RNP RWY 26L - Instrument Approach Procedure via OLEVI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26L	001	IF	OLEVI	-	-	-	3000	-	511117.40N 0000611.30E	IF /10.6NM
R26L	002	TF	K26LF	-	257° (257.6°)	-	3000	-	511052.33N 0000305.46E	FAF / 8.6NM
R26L	003	TF	RW26L	Y	257° (257.6°)	-	-	-	510902.43N 0001018.94W	MAPt
R26L	004	CA	-	-	257° (257.6°)	-	2000	-	-	At 2000 revert to conventional navigation

London Gatwick RNP RWY 08L - Instrument Approach Procedure via MEBIG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R08L	001	IF	MEBIG	-	-	-	3000	-	510632.92N 0002900.23W	IF /10.6NM
R08L	002	TF	K08LF	-	077° (077.6°)	-	3000	-	510659.01N 0002554.48W	FAF / 8.6NM
R08L	003	TF	RW08L	Y	077° (077.6°)	-	-	-	510851.05N 0001229.11W	MAPt
R08L	004	CA	-	-	077° (077.6°)	-	2000	-	-	At 2000 revert to conventional navigation

London Gatwick RNP RWY 26R - Instrument Approach Procedure via ARPIT

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R26R	001	IF	ARPIT	-	-	-	3000	-	511119.23N 0000535.33E	IF /10.6NM
R26R	002	TF	K26RF	-	257° (257.6°)	-	3000	-	511053.99N 0000229.02E	FAF / 8.6NM
R26R	003	TF	RW26R	Y	257° (257.6°)	-	-	-	510903.69N 0001057.48W	MAPt
R26R	004	CA	-	-	257° (257.6°)	-	2000	-	-	At 2000 revert to conventional navigation

CHANGE (7/23): LEVEL CONSTRAINTS FOR IF WAYPOINTS CORRECTED.

AERO INFO DATE 19 APR 23

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EGLL — LONDON HEATHROW

EGLL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGLL — LONDON HEATHROW

EGLL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 512839N Long: 0002741W Mid point of Runway 09L/27R
2	Direction and distance from city	12 NM W of London.
3	Elevation / Reference temperature / Mean Low Temperature	83 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	151 FT
5	Magnetic Variation / Annual Change	0.41°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax Telex	HEATHROW AIRPORT LIMITED The Compass Centre, Nelson Road, Heathrow Airport, Hounslow, TW2 2GW. 08700-000123 (HAL) 020-8750 2636 (NATS Ltd) 020-8745 4290 (HAL) 934892 (HAL)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone calls to NATS Ltd operational areas may be recorded. Types of traffic permitted: IFR/VFR/SVFR.

EGLL AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	
7	ATS	H24 See also AD 2.18.
8	Fuelling	H24 Refer to AD 2.20 item 1.
9	Handling	H24 Refer to AD 2.20 item 1.
10	Security	H24 Refer to AD 2.20 item 1.
11	De-icing	H24 Refer to AD 2.20 item 1.
12	Remarks	

EGLL AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full.
2	Fuel and oil types	AVTUR JET A-1 Oils: Various by arrangement with fuel companies.
3	Fuelling facilities/capacity	Hydrant refuelling. Very limited bowser capacity.
4	De-icing facilities	By arrangement with handling agent.
5	Hangar space for visiting aircraft	By arrangement with BA or Virgin Atlantic.
6	Repair facilities for visiting aircraft	Maintenance and repair (by arrangement).
7	Remarks	

EGLL AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in vicinity.
2	Restaurants	Restaurant, buffet and bar.
3	Transportation	Underground and Express to Central London, Buses, Coaches, taxis and car hire.
4	Medical facilities	Occupational Health Department. Tel: 020-8745 7211/7047/7048.
5	Bank and Post Office	Post Office Second Floor, Departures Building, Terminal 3.
6	Tourist Office	
7	Remarks	

EGLL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A10
2	Rescue equipment	
3	Capability for removal of disabled aircraft	By arrangement with nominated recovery company.
4	Remarks	

EGLL AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing, Sanding/Gritting.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Braking action by ASFT and Grip Tester. Runways (09L/27R & 09R/27L) De-iced/Anti-iced with Ethylene glycol. Latest information from: Airfield Duty Manager (AfDM).

EGLL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete except Stand 357, which has block paving.
2	Taxiway width, surface and strength	Taxiway A EAST: 25 M Surface: Concrete and asphalt PCR 980/R/A/W/T Taxiway A NORTH: 25 M Surface: Concrete and asphalt PCR 820/R/A/W/T Taxiway A SOUTH: 25 M Surface: Concrete and asphalt PCR 820/R/A/W/T Taxiway A WEST: 23 M Surface: Concrete PCR 1440/R/D/W/T Taxiway B EAST: 25 M Surface: Concrete and asphalt PCR 980/R/A/W/T Taxiway B NORTH: 25 M Surface: Concrete and asphalt PCR 920/R/A/W/T Taxiway B SOUTH: 25 M Surface: Concrete and asphalt PCR 820/R/A/W/T

		Taxiway B WEST: 23 M Surface: Concrete PCR 1440/R/D/W/T Taxiway C: 25 M Surface: Concrete PCR 1400/R/D/W/T Taxiway D: 25 M Surface: Concrete PCR 1400/R/D/W/T Taxiway E: 23 M Surface: Concrete PCR 880/R/A/W/T Taxiway F: 23 M Surface: Concrete PCR 840/R/A/W/T Taxiway G: 23 M Surface: Asphalt PCR 840/R/A/W/T Taxiway H: 23 M Surface: Concrete PCR 1020/R/A/W/T Taxiway K: 25 M Surface: Concrete PCR 1020/R/A/W/T Taxiway L: 25 M Surface: Concrete PCR 960/R/A/W/T Taxiway LINK 22: 25 M Surface: Concrete and asphalt PCR 787/R/A/W/U Taxiway LINK 23: 25 M Surface: Concrete and asphalt PCR 1020/R/A/W/T Taxiway LINK 28: 25 M Surface: Concrete PCR 980/R/A/W/T Taxiway LINK 42: 23 M Surface: Concrete PCR 787/R/A/W/U Taxiway LINK 43: 25 M Surface: Asphalt PCR 787/R/A/W/U Taxiway LINK 44: 23 M Surface: Asphalt PCR 787/R/A/W/U Taxiway LINK 56: 25 M Surface: Concrete PCR 1480/R/D/W/T Taxiway LINK 57: 25 M Surface: Concrete PCR 1480/R/D/W/T Taxiway M: 23 M Surface: Concrete and asphalt PCR 1260/R/B/W/T

		Taxiway R: 23 M Surface: Concrete PCR 736/R/A/W/U Taxiway S: 23 M Surface: Concrete and asphalt PCR 787/R/A/W/U Taxiway T: 25 M Surface: Concrete PCR 980/R/A/W/T Taxiway V: 23 M Surface: Asphalt PCR 1020/R/A/W/T Taxiway W: 23 M Surface: Concrete and asphalt PCR 787/R/A/W/U Taxiway Y: 18 M Surface: Concrete PCR 706/R/D/W/T Taxiway Z: 23 M Surface: Concrete PCR 527/R/A/W/U
3	Altimeter checkpoint location and elevation	Central Area 77 FT - Southern helicopter pad 75 FT - Cargo Centre Southside 76 FT.
4	VOR checkpoints	
5	INS checkpoints	See Aircraft/Parking Docking Charts
6	Remarks	

EGLL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Nose in parking is in operation throughout the airport. Heathrow Airport operates a variety of stand types and configurations such as Standard apron/stand, Multiple Aircraft Ramp System (MARS) and Multi Choice Apron (MCA). Standard Apron/stands will have a single yellow centre-line. Each stand will have an individual stand number. MARS stands consist of a main centre-line painted yellow and will have two subsidiary centre-lines either side of the main centre-line. These subsidiary centre-lines are painted yellow/white and are given the designation of the stand number with 'L' (Left) and 'R' (Right) added. Multi Choice Aprons use multiple centre-lines to allow the operation of a variety of different combinations of parked aircraft. The airline operative will select the assigned stand Advanced Visual Docking Guidance System (A-VDGS) to allow the aircraft to park, or a marshaller shall assist with the aircraft parking. Each stand will have an individual stand number. Illuminated stand number indicators are provided on most stands. The majority of stands are equipped with A-VDGS. A marshalling service will be provided for the minority of the remaining stands that do not have A-VDGS fitted. Flight crew must not attempt to self-park if the A-VDGS is not activated or calibrated for their aircraft type. In the event of there being no activated A-VDGS displayed upon approach to the stand, flight crews must: - Hold position on the taxiway centre-line. - Inform Ground Movement Control (GMC) they are awaiting stand entry guidance. - Contact company to arrange activation. Note: GMC may request aircraft to 'report parked' – this is not an instruction to self-park. In the event of a failure of the A-VDGS during parking, flight crews must: - Inform Ground Movement Control (GMC) of a stand entry guidance failure. - Contact company to arrange a marshaller.

2	Runway and taxiway markings and lighting	Runway marking aid(s): 09L/27R: Full ICAO runway designation, threshold, centre-line, aiming point and touchdown zone. Lead-offs from the runway are marked by a continuous yellow line from the centreline of the runway. 09R/27L: Full ICAO runway designation, threshold, centre-line, aiming point and touchdown zone. Lead-offs from the runway are marked by a continuous yellow line from the centreline of the runway. Runway light(s): Threshold - HI green lights. Edge - HI white lights. Centreline - HI colour coded white/red lights. Touchdown zone - HI white lights. Stop end - HI red lights. Colour coded amber/green lights indicate the runway turn-offs routes to the CAT III stop bars. Taxiway marking aid(s): Yellow centre-line.
3	Stop bars and runway guard lights (if any)	Illuminated red stop bars are provided where appropriate.
4	Other runway protection measures	
5	Remarks	Tug Crews, when towing aircraft under the guidance of a marshaller, must not park on stand unless guided to do so by the use of daylight-fluorescent wands, marshalling bats, marshalling gloves. Illuminated wands shall be used at night or in low visibility. LGTD WDI are located at the following positions: 512749.74N 0002838.40W, 512750.27N 0002631.90W, 512843.08N 0002622.52W & 512835.39N 0002848.34W.

EGLL AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLL22221) 27R/APPROACH	TREE	512846.58N 0002530.73W	114 FT	33 FT	No	
(EGLL22559) 27L/TAKE-OFF	TREE	512845.81N 0002950.49W	120 FT	44 FT	No	
(EGLL21952) 09L/APPROACH 27R/ TAKE-OFF	TREE	512845.62N 0002933.28W	122 FT	46 FT	No	Close in Obstacle
(EGLL16680) 09L/APPROACH 27R/ TAKE-OFF	TREE	512845.34N 0002935.96W	119 FT	44 FT	No	Close in Obstacle
(EGLL18361) 09L/APPROACH 27R/ TAKE-OFF	TREE	512845.26N 0002935.98W	126 FT	51 FT	No	Close in Obstacle
(EGLL16678) 09L/APPROACH 27R/ TAKE-OFF	TREE	512845.13N 0002936.08W	113 FT	38 FT	No	Close in Obstacle
(EGLL15398) 09L/APPROACH 27R/ TAKE-OFF	TREE	512845.11N 0002933.63W	110 FT	34 FT	No	Close in Obstacle
(EGLL15418) 09L/APPROACH 27R/ TAKE-OFF	TREE	512844.93N 0002930.10W	109 FT	34 FT	No	Close in Obstacle
(EGLL9577) 09L/APPROACH 27R/ TAKE-OFF	CCTV	512844.87N 0002928.96W	103 FT	26 FT	No	Close in Obstacle
(EGLL3138) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512844.82N 0002928.78W	101 FT	24 FT	No	Close in Obstacle
(EGLL18288) 09L/APPROACH 27R/ TAKE-OFF	TREE	512844.67N 0002947.84W	132 FT	56 FT	No	Close in Obstacle
(EGLL9587) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512844.57N 0002929.01W	102 FT	25 FT	No	Close in Obstacle
(EGLL16605) 27R/TAKE-OFF	TREE	512844.47N 0002947.97W	129 FT	53 FT	No	Close in Obstacle
(EGLL17543) 09L/APPROACH 27R/ TAKE-OFF	TREE	512844.42N 0002936.62W	112 FT	36 FT	No	Close in Obstacle
(EGLL15483) 09L/APPROACH 27R/ TAKE-OFF	STREETLIGHT	512844.41N 0002925.31W	97 FT	27 FT	No	Close in Obstacle
(EGLL9586) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512844.28N 0002929.27W	102 FT	27 FT	No	Close in Obstacle
(EGLL15481) 09L/APPROACH 27R/ TAKE-OFF	STREETLIGHT	512844.28N 0002926.33W	98 FT	28 FT	No	Close in Obstacle

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLL15479) 09L/APPROACH 27R/ TAKE-OFF	STREETLIGHT	512844.15N 0002927.35W	98 FT	28 FT	No	Close in Obstacle
(EGLL15477) 09L/APPROACH 27R/ TAKE-OFF	STREETLIGHT	512844.04N 0002928.35W	98 FT	26 FT	No	Close in Obstacle
(EGLL9585) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512843.78N 0002929.72W	103 FT	31 FT	No	Close in Obstacle
(EGLL5179) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512843.74N 0002929.94W	104 FT	30 FT	No	Close in Obstacle
(EGLL9584) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512843.54N 0002929.95W	103 FT	24 FT	No	Close in Obstacle
(EGLL9583) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512843.39N 0002930.09W	102 FT	23 FT	No	Close in Obstacle
(EGLL18249) 27R/TAKE-OFF	TREE	512843.28N 0002951.32W	127 FT	51 FT	No	
(EGLL9576) 09L/APPROACH 27R/ TAKE-OFF	CCTV	512842.87N 0002930.56W	103 FT	22 FT	No	Close in Obstacle
(EGLL5180) 09L/APPROACH 27R/ TAKE-OFF	CCTV	512842.84N 0002930.52W	103 FT	23 FT	No	Close in Obstacle
(EGLL3155) 27R/TAKE-OFF	LAMP POST	512842.60N 0002937.48W	98 FT	21 FT	No	
(EGLL18198) 27R/TAKE-OFF	TREE	512839.88N 0002950.37W	117 FT	41 FT	No	
(EGLL21824) 27R/TAKE-OFF	TREE	512839.79N 0002950.74W	119 FT	46 FT	No	
(EGLL18165) 27R/TAKE-OFF	TREE	512837.13N 0002953.05W	124 FT	49 FT	No	
(EGLL22527) 27R/TAKE-OFF	TREE	512837.04N 0002944.68W	109 FT	34 FT	No	
(EGLL11221) 27R/APPROACH	TANK NETTING	512834.56N 0002542.13W	98 FT	18 FT	No	
(EGLL13700) 27R/APPROACH	LAMP POST	512834.34N 0002543.40W	97 FT	17 FT	No	
(EGLL9629) 09L/APPROACH 27R/ TAKE-OFF	LAMP POST	512832.37N 0002932.07W	106 FT	17 FT	No	Close in Obstacle
(EGLL9623) 09L/APPROACH 27R/ TAKE-OFF	LAMP POST	512832.34N 0002934.28W	111 FT	25 FT	No	Close in Obstacle
(EGLL9625) 09L/APPROACH 27R/ TAKE-OFF	LAMP POST	512832.32N 0002933.04W	108 FT	22 FT	No	Close in Obstacle
(EGLL2970) 27R/TAKE-OFF	FENCE	512832.13N 0002935.34W	109 FT	25 FT	No	Close in Obstacle
(EGLL9674) 09L/APPROACH 27R/ TAKE-OFF	FENCE	512832.07N 0002935.17W	109 FT	25 FT	No	Close in Obstacle
(EGLL3035) 09L/APPROACH 27R/ TAKE-OFF	ROAD SIGN	512831.89N 0002937.58W	115 FT	30 FT	No	Close in Obstacle
(EGLL5363) 09L/APPROACH 27R/ TAKE-OFF	SIGN	512831.78N 0002937.31W	115 FT	26 FT	No	Close in Obstacle
(EGLL5277) 09L/APPROACH 27R/ TAKE-OFF	TREE	512830.97N 0002940.02W	123 FT	27 FT	No	Close in Obstacle
(EGLL13680) 09R/APPROACH 27L/ TAKE-OFF	LAMP POST	512759.65N 0002921.16W	105 FT	26 FT	No	Close in Obstacle
(EGLL17090) 27L/APPROACH	BUILDING VENT	512759.18N 0002515.02W	134 FT	59 FT	No	
(EGLL21758) 27L/APPROACH	BLDG SAT DISH	512759.18N 0002516.24W	135 FT	60 FT	No	
(EGLL18845) 27L/TAKE-OFF	TREE	512757.08N 0002933.88W	109 FT	35 FT	No	
(EGLL2424) 27L/TAKE-OFF	FLOODLIGHT	512756.68N 0002923.92W	98 FT	22 FT	No	
(EGLL18839) 27L/TAKE-OFF	TREE	512756.34N 0002932.14W	102 FT	31 FT	No	
(EGLL22652) 27L/TAKE-OFF	TREE	512754.87N 0002935.35W	109 FT	37 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLL18809) 27L/TAKE-OFF	TREE	512754.26N 0002932.99W	103 FT	32 FT	No	
(EGLL18810) 27L/TAKE-OFF	TREE	512754.21N 0002934.45W	103 FT	31 FT	No	
(2024041221) 27L/APPROACH 09R/ TAKE-OFF	CRANE	512750N 0002513W	182 FT	105 FT	Yes Steady red	Close in Obstacle. Crane will operate only when 09R/27L is closed. Radius Park, St. Anthony's Way, Feltham.
(EGLL18983) 09R/TAKE-OFF	TREE	512750.41N 0002537.91W	109 FT	30 FT	No	
(EGLL18755) 27L/TAKE-OFF	TREE	512750.12N 0002932.86W	102 FT	31 FT	No	
(EGLL16991) 27L/APPROACH	TREE	512748.96N 0002544.25W	110 FT	32 FT	No	
(EGLL21679) 09R/TAKE-OFF	TREE	512748.77N 0002529.26W	119 FT	42 FT	No	
(EGLL21681) 27L/APPROACH	TREE	512748.53N 0002530.45W	121 FT	43 FT	No	
(EGLL21726) 27L/APPROACH	TREE	512748.46N 0002548.61W	103 FT	25 FT	No	
(EGLL17680) 09R/APPROACH 27L/ TAKE-OFF	TREE	512746.68N 0002918.13W	105 FT	29 FT	No	Close in Obstacle
(EGLL13259) 09R/APPROACH 27L/ TAKE-OFF	STREETLIGHT	512746.59N 0002919.81W	106 FT	32 FT	No	Close in Obstacle
(EGLL17965) 27L/APPROACH 09R/ TAKE-OFF	TREE	512746.13N 0002543.63W	124 FT	45 FT	No	Close in Obstacle
(EGLL22636) 09R/APPROACH	TREE	512743.72N 0002957.62W	157 FT	90 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLL6032)	SPIRE	513427.08N 0002015.52W	557 FT	151 FT	No	
(EGLL5997)	AERIAL	513133.05N 0002742.07W	299 FT	171 FT	No	
(EGLL5884)	AERIAL	513107.77N 0002443.09W	282 FT	168 FT	No	
2021012731	CRANE	513101N 0001552W	571 FT	469 FT	Yes 2000 candelas static red	
2024101660	CRANE	513054N 0002818W	316 FT	219 FT	Yes Steady red	Otterfield Road, West Drayton, UB7 8EY.
(EGLL13728)	BUILDING	513044.76N 0001839.95W	340 FT	239 FT	No	
2023062049	CRANE	513039N 0002422W	404 FT	299 FT	Yes Steady red	Avondale Drive, Hayes, UB3 3PW. End estimated December 2025.
20230525104	CRANE	513035N 0002339W	320 FT	230 FT	Yes Steady red	Beaconsfield Road, Hayes, UB4 0SL. End estimated May 2025.
2024072458	CRANE	513028N 0002246W	417 FT	309 FT	Yes Steady red	Southall Beaconsfield Road
202204228	CRANES	513028.00N 0002325.00W	328 FT	223 FT	Yes Red	Southall Area. See AD 2.20 Warnings.
2023032017	CRANE	513025N 0002231W	469 FT	364 FT	Yes Steady red	Park Avenue, Southall, UB3 1AD.
2023102344	CRANE	513023N 0002531W	396 FT	288 FT	Yes Steady red	Clayton Road. End estimated August 2024.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
2023062044	CRANE	513021N 0002503W	399 FT	294 FT	Yes Steady Red	Austin Road, Hayes UB3 3DN. End estimated December 2025.
2024021538	CRANE	513020N 0002238W	537 FT	431 FT	Yes Steady red	Merrick Place, Merrick Road, Southall, London, UB2 4AU.
201909164	CRANE	513020.29N 0004145.62W	442 FT		Yes Steady red	
2024112668	CRANE	513019N 0002543W	464 FT	358 FT	Yes Steady red	One Vinyl Square, 252-254 Blyth Road, Hayes UB3 1BW.
2022032227	CRANE	513019.00N 0002543.00W	378 FT	271 FT	Yes Steady Red	One Vinyl Square, Hayes.
2023061617	CRANE	513018N 0002640W	226 FT	148 FT	Yes Steady red	14 Prologis Park, Hayes, West Drayton, UB7 9FN. End estimated June 2025.
(EGLL6072)	PYLON	513013.13N 0002955.78W	258 FT	169 FT	No	
20240305156	CRANE	513008N 0002437W	343 FT	236 FT	Yes Steady red	Union Park, North Hyde Gardens.
202105166 - TC7	CRANE	513008N 0002458W	470 FT	369 FT	Yes 2000 Candelas Static Red	
20240117129	CRANE	513008N 0002440W	410 FT	302 FT	Yes Steady red	Union Park Crane 1, North Hyde Gardens UB3 4DG.
2024011012	CRANE	513008N 0002440W	318 FT	213 FT	Yes Steady red	Project Union Phase 1, North Hyde Gardens, Hayes, UB3 4QQ.
202212299	CRANE	513007N 0002436W	237 FT	138 FT	Yes Steady red	Union Park, 15 North Hyde Gardens, Hayes, UB3 4QQ.
202103082	CRANE	513007.00N 0002804.00W	322 FT	230 FT	Yes Steady red	
2022022449	CRANE	513006.00N 0002459.00W	456 FT	342 FT	Yes Steady red	
2024062726	CRANE	513005N 0002507W	421 FT	317 FT	Yes Steady Red	Nestle Avenue, Hayes, UB3 4SA (Charles Edward Site).
202105163	CRANE	513003N 0002455W	228 FT	130 FT	Yes Steady red	
C10/18/22	CRANE	513003.71N 0002449.60W	324 FT		Yes Steady red	
2024100278	CRANE	513002N 0002428W	376 FT	276 FT	Yes Steady red	Ark Data Centres, North Hyde Gardens, Hayes, UB3 4QQ. End estimated April 2025.
2023081646	CRANE	513001N 0002402W	226 FT	121 FT	Yes Steady red	Industrial Park, 149 Brent Road, Southall, UB2 5FB.
(EGLL8178)	CRANE	512926.91N 0001810.43W	345 FT	305 FT	No	
(EGLL5638)	CHIMNEY	512908.51N 0003018.05W	320 FT	244 FT	Yes Red	
(EGLL6506)	FLAG POLE	512902.42N 0003615.51W	354 FT	187 FT	No	
2023051249	CRANE	512848N 0002550W	112 FT	26 FT	Yes Steady red	Avis Budget, Northrop Road, Heathrow, TW6 2QA.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
2024091615	CRANE	512832N 0002937W	128 FT	39 FT	Yes Steady red	Wayfarer Road, London Borough of Hillingdon, London, TW6 2GD. Note this is a second entry for Wayfarer Road. Crane will not operate when Northern Runway (09L/27R) is in use.
2024041232	CRANE	512830N 0002939W	136 FT	33 FT	Yes Steady red	Terminal 5 Welcome Roundabout, Heathrow Airport.
2022110381	CRANE	512829N 0002203W	336 FT	253 FT	Yes Steady red	Lampton Road, Hounslow.
202407053	CRANE	512829N 0002938W	139 FT	39 FT	Yes Steady red	Heathrow Terminal 5, Wayfarer Road, TW6 2GD. Will only operate when Northern Runway (09L/ 27R) is closed.
202110115	CRANE	512827N 0002159W	327 FT	252 FT	Yes Red	
2019080181	CRANE	512817.68N 0002309.12W	330 FT		Yes Steady red	
2024021458	CRANE	512816N 0002700W	261 FT	180 FT	Yes Steady red	Heathrow Airport, Central Terminal Area. Deconstruction of modular building adjacent to Terminal 1 & Terminal 2A. Crane is height restricted during operational hours.
2024072981	CRANE	512815N 0002654W	237 FT	158 FT	Yes Steady red	Heathrow Airport Terminal 2, demolition of adjacent building to Terminal 1.
2023062850	CRANE	512811N 0002704W	213 FT	131 FT	Yes Steady Red	Terminal 2A, Heathrow Airport.
2025030694	CRANE	512800N 0002800W	155 FT	76 FT	Yes Steady red	Heathrow Airport, Taxiway Alpha South between Taxiway Echo & Foxtrot. Will not operate when RWY 09R/27L is in operation.
2023050340	CRANE	512752N 0002300W	302 FT	226 FT	Yes Steady red	379-389 Staines Road, Hounslow, TW4 5AP.
(EGLL3659)	RADAR AERIAL	512737.69N 0002622.62W	220 FT	142 FT	No	
(EGLL18982)	MAST LIGHTNING CONDUCTOR	512732.14N 0002514.14W	227 FT	150 FT	Yes Red	
(EGLL6192)	PYLON	512730.18N 0003221.32W	227 FT	170 FT	No	
(EGLL19369)	BUILDING	512656.87N 0002425.02W	216 FT	147 FT	No	
(EGLL6429)	PYLON	512652.26N 0003137.32W	225 FT	170 FT	No	
(EGLL6896)	CHURCH	512649.92N 0002431.67W	235 FT	166 FT	No	
2022021746	CRANE	512630.00N 0002455.00W	226 FT	167 FT	Yes Steady red	
(EGLL19459)	TREE	512626.15N 0003447.73W	374 FT	98 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLL19466)	TREE	512624.41N 0003524.21W	385 FT	122 FT	No	
(EGLL19452)	TREE	512617.94N 0003446.51W	370 FT	109 FT	No	
2023031646	CRANE	512610N 0003032W	438 FT	392 FT	Yes Steady red	Former Renshaw, Industrial Estate, Staines-upon-Thames, TW18 4UQ.
2020012282	CRANE	512609.97N 0003018.92W	421 FT		Yes Steady red	
2023030292	CRANE	512559N 0003039W	379 FT	334 FT	Yes Steady red	Elmsleigh Road, Staines, TW18 4QW.

EGLL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 30 Hours
4	Trend forecast Interval of issuance	TREND. 30 Minutes.
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	LONDON HEATHROW
10	Additional information (limitation of service, etc.)	

EGLL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
09L	089.67°	3901 x 50 M	RWY surface: Asphalt, Grooved PCR 1020/R/A/W/T	512839.00N 0002905.97W 150.9 FT	THR 78.6 FT TDZ 81.3 FT	
27R	269.71°	3901 x 50 M	RWY surface: Asphalt, Grooved PCR 1020/R/A/W/T	512839.63N 0002559.82W 150.7 FT	THR 78.1 FT TDZ 79.3 FT	
09R	089.68°	3658 x 50 M	RWY surface: Asphalt, Grooved PCR 820/R/A/W/T	512753.25N 0002856.33W 150.8 FT	THR 75.3 FT TDZ 76.2 FT	
27L	269.72°	3658 x 50 M	RWY surface: Asphalt, Grooved PCR 820/R/A/W/T	512753.82N 0002602.76W 150.6 FT	THR 76.8 FT TDZ 77.8 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		4021 x 280 M				RWY 09L Northern runway shoulders between A1 and A11 are 20.5 M and between A11 and A13 are 12.5 M.
	78 x 150 M	4021 x 280 M				RWY 27R Northern runway shoulders between A1 and A11 are 20.5 M and between A11 and A13 are 12.5 M.
		3778 x 280 M				RWY 09R Southern runway shoulders between N1 and N7 are 20.5 M and between N7 and N11 are 12.5 M.
		3778 x 280 M				RWY 27L Southern runway shoulders between N1 and N7 are 20.5 M and between N7 and N11 are 12.5 M.

EGLL AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09L	3901 M	3901 M	3901 M	3592 M	LDA: 09L landing threshold is displaced by 309 M.
27R	3882 M	3960 M	3882 M	3882 M	
09L	3362 M	3362 M	3362 M		Take-off from intersection with A12
09L	2838 M	2838 M	2838 M		Take-off from intersection with A11
09L	2661 M	2661 M	2661 M		Take-off from intersection with A10W
09L	2354 M	2354 M	2354 M		Take-off from intersection with A10E
09L	1992 M	1992 M	1992 M		Take-off from intersection with A9W
09L	1789 M	1789 M	1789 M		Take-off from intersection with A9E
27R	3539 M	3617 M	3539 M		Take-off from intersection with A4
27R	3136 M	3214 M	3136 M		Take-off from intersection with A5
27R	2862 M	2940 M	2862 M		Take-off from intersection with A6
27R	2617 M	2695 M	2617 M		Take-off from intersection with A7
27R	2414 M	2492 M	2414 M		Take-off from intersection with A8
27R	2142 M	2220 M	2142 M		Take-off from intersection with A9E
27R	1947 M	2025 M	1947 M		Take-off from intersection with A9W
09R	3658 M	3658 M	3658 M	3350 M	LDA: 09R landing threshold is displaced by 308 M
27L	3658 M	3658 M	3658 M	3658 M	
09R	3528 M	3528 M	3528 M		Take-off from intersection with N10
09R	3351 M	3351 M	3351 M		Take-off from intersection with N8
09R	2853 M	2853 M	2853 M		Take-off from intersection with S7
09R	2852 M	2852 M	2852 M		Take-off from intersection with N7
09R	2325 M	2325 M	2325 M		Take-off from intersection with N6
09R	2244 M	2244 M	2244 M		Take-off from intersection with S6
09R	1704 M	1704 M	1704 M		Take-off from intersection with N5W
27L	3536 M	3536 M	3536 M		Take-off from intersection with N2E
27L	3380 M	3380 M	3380 M		Take-off from intersection with N2W
27L	3224 M	3224 M	3224 M		Take-off from intersection with N3
27L	3212 M	3212 M	3212 M		Take-off from intersection with S3
27L	2702 M	2702 M	2702 M		Take-off from intersection with N4E
27L	2606 M	2606 M	2606 M		Take-off from intersection with S4W
27L	2589 M	2589 M	2589 M		Take-off from intersection with S4E

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
27L	2441 M	2441 M	2441 M		Take-off from intersection with N4W
27L	2222 M	2222 M	2222 M		Take-off from intersection with S5E
27L	2091 M	2091 M	2091 M		Take-off from intersection with N5E
27L	2081 M	2081 M	2081 M		Take-off from intersection with S5W

EGLL AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09L	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 860 M Light intensity high	Green Light intensity high With HI wingbars	PAPI /3° 66 FT 417 M	900 M	Bi-directional colour coded 15 M spacing 3901 M length Light intensity high	Bi-directional 60 M spacing 3901 M length White Light intensity high	Red		EDGE: On full length departures, the first 300 M of edge lights are red due to displaced threshold.
27R	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 905 M Light intensity high	Green Light intensity high With HI wingbars	PAPI /3° 73 FT 469 M	901 M	Bi-directional colour coded 15 M spacing 3884 M length Light intensity high	Bi-directional 60 M spacing 3884 M length White Light intensity high	Red		
09R	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 939 M Light intensity high	Green Light intensity high With HI wingbars	PAPI /3° 65 FT 420 M	899 M	Bi-directional colour coded 15 M spacing 3660 M length Light intensity high	Bi-directional 60 M spacing 3660 M length White Light intensity high	Red		EDGE: On full length departures, the first 300 M of edge lights are red due to displaced threshold.
27L	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 922 M Light intensity high	Green Light intensity high With HI wingbars	PAPI /3° 65 FT 420 M	901 M	Bi-directional colour coded 15 M spacing 3660 M length Light intensity high	Bi-directional 60 M spacing 3660 M length White Light intensity high	Red		

EGLL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 09L: 512842.70N 0002848.27W (LGTD) - 27R: 512843.28N 0002619.54W (LGTD) - 09R: 512749.15N 0002839.36W (LGTD) - 27L: 512749.69N 0002621.49W (LGTD).
3	TWY edge and centre line lighting	CL: Green centre-line lights with selective switching on all taxiway routes.
4	Secondary power supply/switch-over time	Yes - CAT I/II/III. 1 second.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGLL AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 512744.27N 0002704.97W
2	TLOF and/or FATO elevation	TLOF: 75.4 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	TLOF: 18 M sided triangular aiming point.
4	True BRG of FATO	FATO: DIR 27: 269.48°
5	Declared distance available	
6	APP and FATO lighting	FATO: DIR 27: Lighting: Aiming point No approach lighting. Helicopter aiming point is lit with 6 heliport low intensity omni-directional inset white lights.
7	RMK	Refer to AD 2.20 paragraph 5 for Helicopter Operations at Heathrow and AD 2-EGLL-4-1 for the Helicopter Crossing Operations chart. Refer to AD 2.22 paragraph 10 for VFR/Special VFR helicopter flights in the London CTR and paragraph 12 for Helicopter Routes in the London CTR.

EGLL AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON CTR 513611N 0004133W - 513611N 0001253W thence clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 512013N 0001255W - 512013N 0003800W - 512103N 0004236W thence clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 513611N 0004133W	Upper limit: 2500 FT ALT Lower limit: SFC	D	HEATHROW RADAR English	6000 FT		See EGLL AD2.22, Flight Procedures, item 8 for details of Local Flying Areas. Hours: See AD 2.18. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
LONDON CTR TMZ 513611N 0004133W following the line of latitude to - 513611N 0001253W thence clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 512013N 0001255W following the line of latitude to - 512013N 0003800W - 512103N 0004236W thence clockwise by the arc of a circle radius 12 NM centred on 512812N 0002713W to 513611N 0004133W	Upper limit: 2500 FT ALT Lower limit: SFC	D	HEATHROW RADAR English	6000 FT		Procedures applicable to flights within the Transponder Mandatory Zone are detailed in GEN 1.5 paragraph 5.3 and EGLL AD 2.22.
LONDON HEATHROW ATZ A circle, 2.5 NM radius, centred at 512839N 0002741W on longest notified runway (09L/27R)	Upper limit: 2000 FT AGL Lower limit: SFC	D	HEATHROW RADAR English	6000 FT		

EGLL AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	HEATHROW DIRECTOR	119.730			H24	ATZ hours coincident with Approach hours.
		120.400 When instructed by ATC.			H24	
		121.500 Emergency frequency O/R.			H24	
		127.525 When instructed by ATC.			H24	
		134.980 When instructed by ATC.			H24	
TWR	HEATHROW DELIVERY	121.980 Ground Movement Planning Departing aircraft are to make initial call to 'Heathrow Delivery' on this frequency.			H24	
	HEATHROW GROUND	121.705 DOC 5 NM/GND. Ground Movement Control.			As directed by ATC	
		121.855 DOC 5 NM/GND. Ground Movement Control.			As directed by ATC	
		121.905 DOC 5 NM/GND. Ground Movement Control.			As directed by ATC	
	HEATHROW TOWER	118.505 DOC 25 NM/4,000 FT.			H24	
		118.705 DOC 25 NM/4,000 FT.			H24	
		121.500 Emergency frequency O/R.			H24	
		124.480 When instructed by ATC.			H24	
RADAR	HEATHROW RADAR	121.500 Emergency frequency O/R.			H24	Outside the hours 0700-2030 (0600-1930) 125.625 MHz will be monitored by Thames Director: 0600-0700 (0500-0600) and 2030-2230 (1930-2130) or Heathrow Director: 2230-0600 (2130-0500).
		125.625 VFR and Special VFR flights in the London CTR and the London City CTR/CTA. DOC 60 NM/ 20,000 FT.			H24	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
		127.525 When instructed by ATC.			H24	
ATIS	HEATHROW INFORMATION	113.750 DOC 60 NM/ 20,000 FT. Broadcast on Bovingdon VOR.			H24	
		117.000 DOC 70 NM/ 20,000 FT. Broadcast on Seaford VOR.			H24	
		128.080 DOC 60 NM/ 20,000 FT.			H24	
ATIS DEP	HEATHROW INFORMATION	121.935 DOC 5 NM/GND.			H24	
OTHER	HEATHROW FIRE	121.600 When instructed by ATC. Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGLL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 1.24°E (2027)	IAA	110.300 MHz	HO	512839.71N 0002537.06W		(RWY 09L) Particular care should be exercised in selecting the appropriate ILS facility as more than one ILS will normally be radiating.
ILS/GP	IAA	335.000 MHz	HO	512843.50N 0002850.43W		(RWY 09L) 3° ILS Ref Datum Hgt 51 FT. Certified for extended range to 15 NM. Not for use below 2200 FT at this range.
ILS/LOC III 1.24°E (2027)	IBB	109.500 MHz	HO	512753.89N 0002541.63W		(RWY 09R) Particular care should be exercised in selecting the appropriate ILS facility as more than one ILS will normally be radiating.
ILS/GP	IBB	332.600 MHz	HO	512748.97N 0002840.54W		(RWY 09R) 3° ILS Ref Datum Hgt 50 FT. Certified for extended range to 15 NM. Not for use below 2200 FT at this range.
ILS/LOC III 1.22°E (2027)	ILL	109.500 MHz	HO	512753.14N 0002928.20W		(RWY 27L) False Capture may be experienced when approaching from the north and south. Particular care should be exercised in selecting the appropriate ILS facility as more than one ILS will normally be radiating.
ILS/GP	ILL	332.600 MHz	HO	512749.47N 0002620.00W		(RWY 27L) 3° ILS Ref Datum Hgt 56 FT. Certified for extended range to 15 NM. Not for use below 2200 FT at this range.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 1.22°E (2027)	IRR	110.300 MHz	HO	512838.88N 0002937.39W		(RWY 27R) Particular care should be exercised in selecting the appropriate ILS facility as more than one ILS will normally be radiating.
ILS/GP	IRR	335.000 MHz	HO	512843.83N 0002617.50W		(RWY 27R) 3° ILS Ref Datum Hgt 58 FT. Certified for extended range to 15 NM. Not for use below 2200 FT at this range.
VOR/DME 1.24°E (2027) 0.6°E (2022)	OCK	100X 115.300 MHz	H24	511818.17N 0002649.86W	200 FT	RNAV Substitution Only. VOR DOC: 25 NM/25,000 FT and 35 NM/25,000 FT in the sector 114º to 289º. DME DOC: 70 NM/25,000 FT (90 NM/ 25,000 FT in Sector R059°-089°).
VOR/DME 1.22°E (2027) 0.8°E (2023)	LON	83X 113.600 MHz	H24	512914.09N 0002759.54W	113 FT	VOR DOC: 20 NM/50,000 FT (10 NM/ 50,000 FT in Sector R094-164, 35 NM/50,000 FT in Sector R064-094 and 40 NM/50,000 FT in Sector R254-289). There may be VOR bearing fluctuations in Sector R334-170. DME DOC: 40 NM/50,000 FT (100 NM/50,000 FT in Sector R179-254 and 80 NM/50,000 FT in Sector R254-314). DME unlocks may occur in the Sector R179-249 at ranges greater than 50 NM.
NDB 1.09°E (2027)	WOD	352.000 kHz	H24	512710.02N 0005243.68W		Range 25 NM.
VOR/DME 0.98°E (2027) 0.8°E (2024)	SAM	80Y 113.350 MHz	H24 Hours of operation for aerodrome purposes: HO	505718.90N 0012042.20W	64 FT	VOR DOC: 20 NM/50,000 FT (35 NM/ 50,000 FT in Sector R249-084 and 40 NM/50,000 FT in Sector R359-034). DME DOC: 100 NM/50,000 FT (150 NM/50,000 FT in Sector R224-314). On R202 VOR flag alarms and DME unlocks may be experienced at ranges exceeding 30 NM below 8000 FT.
NDB 1.15°E (2027)	BUR	421.000 kHz	HO	513108.44N 0004037.89W		DOC: 15 NM except for Sector 340-020 where DOC is 30 NM
NDB 1.20°E (2027)	CHT	277.000 kHz	HO	513723.32N 0003106.87W		Range 25 NM.
NDB 1.27°E (2027)	EPM	316.000 kHz	HO	511910.43N 0002219.12W		Range 25 NM.
ILS/DME	IBB	32X 109.500 MHz	HO	512749.74N 0002730.90W	93 FT	(RWY 09R) On AD. DME freq paired with ILS I-BB and I-LL. Zero range is indicated at THR of Runway 09R and 27L.
ILS/DME	ILL	32X 109.500 MHz	HO	512749.74N 0002730.90W	93 FT	(RWY 27L) On AD. DME freq paired with ILS I-BB and I-LL. Zero range is indicated at THR of Runway 09R and 27L.
ILS/DME	IRR	40X 110.300 MHz	HO	512843.84N 0002732.51W	99 FT	(RWY 27R) On AD. DME freq paired with ILS I-AA and I-RR. Zero range is indicated at THR of Runway 09L and 27R.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/DME	IAA	40X 110.300 MHz	HO	512843.84N 0002732.51W	99 FT	(RWY 09L) On AD. DME freq paired with ILS I-AA and I-RR. Zero range is indicated at THR of Runway 09L and 27R.
VOR/DME 1.39°E (2027) 1.1°E (2024)	BIG	98X 115.100 MHz	H24	511951.15N 0000205.32E	589 FT	VOR DOC: 20 NM/50,000 FT (30 NM/50,000 FT in Sector R259-314 and 45 NM/50,000 FT in Sector R314-344). DME DOC: 60 NM/50,000 FT (125 NM/50,000 FT in Sector R284-044 and 100 NM/50,000 FT in Sector R044-134). Due to terrain, coverage at low level is reduced in Sector R114-219. In addition DME unlocks may occur in Sector R004-039 at ranges up to 25 NM.
VOR/DME 1.41°E (2027) 1.1°E (2025)	LAM	103X 115.600 MHz	H24	513845.69N 0000906.13E	241 FT	VOR DOC: 30 NM/50,000 FT (40 NM/50,000 FT in Sectors R064-099, R139-174 and R249-289). DME DOC: 40 NM/50,000 FT (110 NM/50,000 FT in Sector R314-134).
VOR/DME 1.58°E (2027) 1.2°E (2023)	DET	120X 117.300 MHz	H24	511814.41N 0003550.19E	645 FT	VOR DOC: 20 NM/50,000 FT (35 NM/50,000 FT in Sector R289-029 and 45 NM/50,000 FT in Sector R249-289). DME DOC: 60 NM/50,000 FT.
VOR/DME 1.20°E (2027) 1.0°E (2024)	MID	87X 114.000 MHz	H24	510314.23N 0003730.01W	233 FT	VOR DOC: 20 NM/50,000 FT (35 NM/50,000 FT in Sector R354-164). DME DOC: 60 NM/50,000 FT (100 NM/50,000 FT in Sector R239-359).
VOR/DME 1.44°E (2027) 1.4°E (2025)	MAY	126X 117.900 MHz	H24	510101.86N 0000658.04E	384 FT	VOR DOC: 20 NM/25,000 FT (30 NM/25,000 FT in Sector R259-329 and 35 NM/25,000 FT in the Sector R059-094). DME DOC: 40 NM/25,000 FT (60 NM/25,000 FT in Sector R104-164). Due to terrain, coverage at low level is reduced in Sector R314-039.
VOR/DME 1.18°E (2027) 0.7°E (2023)	BNN	84Y 113.750 MHz	H24	514334.19N 0003259.10W	558 FT	VOR DOC: 20 NM/50,000 FT (30 NM/50,000 FT in Sector R329°-084° and 40 NM/50,000 FT in Sector R084°-119°). DME DOC: 60 NM/50,000 FT.

EGLL AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to the London CTR.
b) The following conditions and procedures apply to single-engined and light twin-engined aircraft not fully equipped with radio apparatus (including ILS receiver) as specified at GEN 1.5 but carrying at least the VHF RTF frequencies to permit communication with London (Heathrow) Airport Approach/Director/Radar, Tower and Ground Movement Control:

   i. The flight must be made on a VFR or Special VFR clearance under the weather conditions and along the routes specified in the EGLL AD 2.22, paragraph 12.
   ii. The first VHF RTF communication with Approach Control must include the words 'Customs required' if the flight is an international one.

c) An operator which has not operated a scheduled service or a series charter service from Heathrow prior to 1 November 1992 shall only be permitted to commence a scheduled service or a series charter service from Heathrow to a destination which was not served from the airport by any operator in the twelve months prior to 1 November 1992 if any jet aircraft to be used meets the requirements ICAO Annex 16, Chapter 3.
d) When applying for permission to commence a service falling within the terms of this Condition, documents attesting that jet aircraft comply with Chapter 3 Noise certification standards must be produced. If these documents are not produced the aircraft will be regarded as a non Chapter 3 aircraft.

e) All flights are at all times subject to PPR within the terms of the Heathrow Rule 1 Traffic Distribution Rules 1991. The filing of a flight plan with NATS or receipt of an ATC clearance does not constitute permission to use London Heathrow.

f) Availability: H24, subject to the approval of the Director of Operations, Heathrow Airport Ltd, and the acceptance of the flight by the coordinator (Airport Co-ordination Ltd). For the purposes of this paragraph, Scheduled Flights shall mean: commercial passenger flights; commercial all-cargo flights; positioning flights to operate a planned commercial service or to undergo essential maintenance; ambulance flights; other non-commercial flights operated in support of commercial operations including but, not limited to, air tests, training flights, technical stops. Subject to paragraph (g), the airport may not be used by aircraft other than those engaged on Scheduled Flights unless:

i. prior written permission and a clearance number for each flight is obtained from the Director of Operations, Heathrow Airport Limited; and
ii. a slot has been obtained in advance of each movement from the airport co-ordinator.

Applications for prior permission must be made in writing not more than 10 days and not less than 24 hours before the proposed flight to the Director of Operations, The Compass Centre, Nelson Road, Heathrow Airport, Tel: 020-8757 4470. Once permission has been granted to an operator for a particular operation, permission will be deemed granted on subsequent occasions provided there is no material difference in the type of operation (in such cases a further application for prior permission must be made as above) and provided that the Director of Operations shall not have revoked the permission, which he shall be able to do in his absolute discretion.

Applications for a slot must be made not less than 24 hours before the proposed flight, and should be addressed to the Manager, Airport Co-ordination LTD, by Tel: 020-8564 0613, Fax: 020-8564 0690, available during office hours; or by email: LONACXH@acl-uk.org.

Both applications must include the following information.

i. Aircraft owner/operator;
ii. Aircraft type and registration;
iii. Origin and/or destination;
iv. ETA and ETD;
v. Number of passengers;
vi. A handling agent (Airline Operator or Handling Agent based at Heathrow) is a requirement for all flights including general aviation and helicopter movements;
vii. Purpose of flight.

Use is also subject to limitations imposed by Night Noise Restrictions (see current supplements).

g) For the purposes of this paragraph (g), 'General or Business Aviation' shall mean any air traffic not falling into any of the following categories:

i. Scheduled Flights (as defined in paragraph (f));
ii. Air-Taxi Services which shall mean: non-scheduled air transport operations for hire or reward in the case of passenger air transport operations where the seating capacity of the aircraft used exceeds 10;
iii. Official Flights which shall mean: any traffic engaged on the King’s flight or on flights operated primarily for the purpose of the transport of Government Ministers or visiting Heads of State or dignitaries from abroad.

Operators of General or Business Aviation aircraft may not operate at any time unless:

i. they obtain prior written permission to do so from the Director of Operations, Heathrow Airport Limited; and
ii. they obtain a slot in advance of each movement also from the airport co-ordinator; and
iii. irrelevant of their time of arrival and departure, they operate the movement (departure and arrival) to the approved slot time.

Those who fail to comply with (g) (i), (ii), or (iii), are liable to be prohibited from operating thereafter, unless the Director of Operations, Heathrow Airport Limited is satisfied that the movement amounted to an emergency or other circumstances beyond the control of the operator or the commander of the aircraft.

Applications for prior permission must be made in writing not more than 10 days and not less than 24 hours before the proposed flight to the Director of Operations, The Compass Centre, Nelson Road, Heathrow Airport, Tel: 020-8757 4470. Once permission has been granted to an operator for a particular operation, permission will be deemed granted on subsequent occasions provided there is no material difference in the type of operation (in such cases a further application for prior permission must be made as above) and provided that the Director of Operations shall not have revoked the permission, which he shall be able to do in his absolute discretion.

Applications for a slot must be made not less than 24 hours before the proposed flight, and should be addressed to the Manager, Airport Co-ordination LTD, by Tel: 020-8564 0613, Fax: 020-8564 0690, available during office hours; or by email: LONACXH@acl-uk.org.

i. Aircraft owner/operator;
ii. Aircraft type and registration;
iii. Origin and/or destination;
iv. ETA and ETD;
v. Number of passengers;
vi. A handling agent (Airline Operator or Handling Agent based at Heathrow) is a requirement for all flights including general aviation and helicopter movements;
vii. Purpose of flight.

Flights for recreational, commemorative, charity and record breaking purposes, light twin engined private aircraft and all light single engined aircraft will not be permitted to use the airport. 'Light aircraft' shall be defined as any aircraft that has a maximum gross take-off weight of 12,500 lb (5,670 KG) or less.

h) Diversion Procedure – Airlines and other operators are advised to avoid filing London Heathrow as an alternate. However, where this is unavoidable, they are required to have made arrangements for ground handling with an airline from the appropriate terminal. It should be noted that during the night, ground handling facilities are very limited without prior arrangement. Nothing in this procedure shall, however, prevent an aircraft that has declared an emergency from landing.
i) The operation of the Antonov An225 is subject to prior approval of the Airside Operations AfDM, Tel: 0208-745 7373.
j) Fixed-wing and rotary aircraft using London Heathrow Airport do so in accordance with the Heathrow Conditions of Use document. A copy of the document is available at www.heathrowairport.com.
k) In order to provide a stable and deliverable schedule during times of disruption Heathrow Airport Ltd, in agreement with the AOC and Airline Operators (AOs), has developed the following mechanisms to assist with both short term and longer-term disruption. These interventions aim to minimise the impact of disruption to passengers and the local community, whilst providing participating airlines with the ability to pre-tactically cancel flights in advance of expected disruption and thus minimise the risk of tactical cancellations. Interventions are managed on behalf of Heathrow Airport by the Aircraft Operations Duty Manager (AODM). The AODM is available H24 via tel +44(0)208-757 3501.

i. Level One intervention – tactical tools and methodologies used to minimise the impact of short term capacity issues. These are applied under BAU conditions;
ii. Level Two intervention – When inclement weather is forecast the AODM, in conjunction with ATC, will assess the risk to the normal operations of the airfield. If disruption is expected the AODM will convene a conference call with the top 23 airlines (in terms of ATMs) where it may be agreed that airlines are required to make a pre-tactical reduction in their schedules. Heathrow may also decide not to accept diversions during a period of disruption, and ad-hoc slots may be suspended. All outcomes will be communicated via NOTAM. Airport Coordination Limited (ACL) is responsible for monitoring the utilisation of slots and applying the “use it or lose it” (80:20) rule as required under the European Union Regulation 95/93 amended by 794/2004. ACL will review each activation of the Demand v Capacity process on a case by case basis. ACL will look favourably on those air carriers that comply with the request by the airport to cancel in advance of predicted disruption following the issuing of a NOTAM and will provide alleviation for 80:20. ACL will review cancellations that occur in the same way it would for any other disruption, which may lead to further alleviations.
iii. Level Three intervention – if inclement weather is forecast for a more prolonged period (generally in excess of 24 hours) or if the airport has experience a loss of critical resource, systems or infrastructure and disruption is expected to last for greater than 24 hours the Head of Operations would instigate Heathrow Airport Demand and Capacity Balancing (HADACAB). A conference call is held with the top 50 airlines (in terms of ATMs) and under the Terms and Conditions of use of Heathrow a schedule reduction is mandated. Such reductions are also considered for 80:20 alleviation. Generally, a Level Three Intervention is preceded by a Level Two intervention.
iv. Level Four intervention – in the event of the loss of a significant asset or processing agent (including staff) resulting in disruption that is expected to last for a prolonged period (such as loss of terminal, loss of runway) then the Head of Operations would instigate Heathrow Airport Demand and Capacity Balancing (HADACAB). A conference call is held with all airlines and under the Terms and Conditions of use of Heathrow a schedule reduction is mandated. Such reductions are also considered for 80:20 alleviation. A Level Four intervention may not necessarily be preceded by a Level Two or Three intervention.

2 GROUND MOVEMENT

a) **General**

i. Ground Movement Control (GMC) is in continuous operation and all surface movement of aircraft, vehicles and personnel on the Manoeuvring Area is subject to ATC authority. Some vehicles are permitted to operate on taxiways without being under positive control from ATC. These vehicles are said to be ‘free ranging’ and must give way to aircraft at all times, maintaining a listening watch on the relevant GMC frequency.
ii. Directions issued by ATC should be followed specifically. RTF transmissions must be brief, concise and kept to the minimum number.
iii. Within the Movement Area, pilots will be cleared to and from the aircraft stands under general direction from GMC. Pilots are reminded of the extreme importance of maintaining a careful lookout at all times.
iv. Pilots are to use the minimum power necessary when manoeuvring on the taxiway system. This is of particular importance when manoeuvring in the apron cul-de-sacs, where jet blast can affect adjacent stands.
v. Flight crew are reminded of the extreme importance of maintaining a careful lookout at all times and are at all times responsible for wing tip clearance. The taxiway lighting system is an aid to pilots when they are operating on the manoeuvring area during darkness or in poor visibility. Notwithstanding the taxiway lighting system, pilots continue to remain responsible for wing tip clearance.
vi. In promulgated holding areas, ATC may require aircraft to pass each other. Avoidance of other aircraft is the responsibility of the flight crew involved. If doubt exists as to whether other aircraft can be safely overtaken, aircraft must stop, advise ATC, and request ATC for alternative instructions.
vii. Heathrow Airport is equipped with an advanced surface movement radar utilising Mode-S.

1. Aircraft operators intending to use London Heathrow Airport should ensure that Mode S transponders are able to operate when the aircraft is on the ground.
2. Flight crew should select XPDR, or equivalent, AUTO if available, and the assigned code:

a) From the request to push back or taxi, whichever is earlier;
b) After landing, continuously until the aircraft is parked on stand.

After parking the Mode A code 2000 must be set before selecting OFF or STDBY.

3. Flight crew of aircraft equipped with Mode S having an aircraft identification feature should also set the aircraft identification. This setting is the aircraft identification specified in Item 7 of the ICAO ATC Flight Plan. The aircraft identification should be entered from the request for push back or taxi, whichever is earlier, through the FMS or the Transponder Control Panel.

viii. Pilots are required to inform Heathrow Delivery if the aircraft livery conflicts with the aircraft callsign.
ix. For the safety of ground personnel, flight crews are requested not to flash or illuminate nose gear lights whilst on stand without prior warning to ground crew.

b) **Manoeuvring Area**

i. The manoeuvring area designation system is illustrated on page AD 2-EGLL-2-1. The taxiway designation system uses alphabetical letters to identify main taxiways. Stub taxiways that connect main taxiways are designated as 'Link'. The runway holding areas have named reporting points. Entrance/exits for the runways have alpha/numeric designations'.
ii. The Manoeuvring Area is equipped with the following forms of taxiway guidance:

1. Yellow painted taxiway centre-lines;
2. Yellow painted holding position lines at the approach to runways;
3. Yellow painted special holding position lines related to runway protection in CAT II/III;
4. Green taxiway centre-line lights and red stopbars controlled from the Tower;

(aa) During the hours of darkness or reduced visibility. Aircraft may be requested to ‘follow the greens’, in addition to being given a verbal clearance limit. This means aircraft should follow the green centre-line lights, until either the verbal clearance limit or a red stop bar is reached. Aircraft should not proceed past a verbal clearance limit without ATC approval, even if no red stop bar exists.

(bb) During daylight hours red stop bar lights will be illuminated at each runway entry point. Aircraft must not proceed past until the stop bar is extinguished and ATC permission is received. No green centre-line lights are provided during daylight hours.

5. An illuminated red stopbar means STOP. Aircraft must not proceed until the stopbar is extinguished and ATC permission is received;
6. Runway Guard Lights: Pairs of alternately flashing ground mounted yellow lights at each side of the taxiways, where they connect with a runway, operate H24.

iii. Ground movement of large aircraft:

1. A380 aircraft – taxiway routes available to the A380 are shown on chart AD 2-EGLL-2-3, marked in yellow. In addition, B747-800 aircraft are permitted to use taxiway Sierra west of S6 and Link 41. Reduced ‘taxiway centre-line to object clearance’ of 49 M applies on the following taxiways: Bravo between Foxtrot and Link 11; Echo between Bravo and Link 36; Whiskey between Sierra and Tango; Sierra between SY6 and Tango. Reduced clearance of 47.5 M to an airside road to the east of Taxiway Alpha at MORRA. Pilots are to ensure that aircraft remain on the taxiway centre-line at all times, it is recommended that judgemental steering is used at all times when manoeuvring on the taxiways. Pilots are to use minimum power when manoeuvring in Terminal 4.
2. Pilots of Code E aircraft must exercise caution when using Taxiway Sierra between Reporting Point SY6 and Taxiway Z as wing tip clearances to the south are minimal.
3. All B747/400 aircraft on Taxiway Zulu must be under tow.
4. Aircraft Code E and above - it is recommended that flight crews use judgemental steering at all times when manoeuvring on the taxiways. These aircraft are not permitted to use the following route; Eastbound on Taxiway Sierra at NESSY - turning right onto Link 41 to face west and vice-versa.

←

iv. Code E taxiway-taxiway separation of 80 M is not met as follows: Taxiways Alpha-Bravo between Hotel and AY5.
v. Code E taxiway to stand, or taxiway to object separation of 43.5 M is not met to the east of Taxiway Foxtrot between F1 and Taxiway Golf (42.5 - 43 M), and to the south of Taxiway Sierra between SY6 and Taxiway Z (37 M).
vi. Code F taxiway to stand, or taxiway to object separation of 51 M is not met to the south of Taxiway Bravo (N) between stands 336 and 357 (49 M).
vii. Taxiway Yankee between HANLI and Taxiway Alpha is restricted to aircraft with a maximum size of Code C.
viii. Link 56 restricted to aircraft with a maximum size Code D.

c) **Engine Ground Running**

Accountability for the control of ground noise at Heathrow rests with Heathrow Airport Limited (HAL). Various restrictions regarding aircraft operations are related to the planning conditions (as amended) for Terminals 4 and 5. In addition, the running of Auxiliary Power Units is controlled.

i. **Operations at Terminal 4**

1. **Stands 401-403 and 429-432**, except in an emergency, **between 2330 (2230) and 0600 (0500)**; no use of aircraft engines shall be permitted to, from or onto these stands;
2. **Taxiway route ‘S’ east of ‘V’ apron or through ‘Link 41’ to S1 and reverse.** Aircraft are prohibited from accessing and departing from the terminal site by taxiing on the route above between 2330 (2230) and 0600 (0500) except in an emergency or as a consequence of essential maintenance work on the alternative access routes.

ii. **Operations at Terminal 5**

Between 2330 (2230) and 0600 (0500):

1. Aircraft arriving at Terminal 5 and those scheduled to depart in that period, will use stands closest to the centre of the site in preference to outer stands;
2. Taxiing operations to the north and south of the T5 application site will be restricted to inner taxiways only, except in an emergency or for the maintenance of the runway and taxiway system.

iii. **Hierarchy of power sources**

The following hierarchy of power sources must be followed:

1. FEGP - to be used whenever supplied and serviceable;
2. GPU - only to be used when FEGP is not supplied or the unit is unserviceable;
3. APU - only to be used when neither FEGP nor GPU is supplied or both units are unserviceable.

iv. **Auxiliary Power Units (APU) procedures**

1. APU must be shut down at the earliest opportunity on arrival on stand.
2. APUs are not permitted to be used between 2330-0600 (2230-0500) on:

   Cargo Area stands 601-609 and 614-616;

   Stands 401-403 and 429-432, except in an emergency.

3. No APU is to be left running unless either a qualified person is in attendance or the APU has both an auto-shut down and auto-extinguishing facility.

v. Restrictions on the use of APUs are:

	Before Estimated Time of Departure - start	**Arrival terminating operation - shut down**
Narrow Body Aircraft	No more than 15 minutes †	10 minutes after arrival on stand †
Wide Body Aircraft (B747, B767, B777, B787, MD11, A300, A310, A330, A340)	No more than 30 minutes †	10 minutes after arrival on stand †
A380	No more than 60 minutes †	15 minutes after arrival on stand †

† Exemptions to these restrictions are:

1. When the aircraft is scheduled to be towed, the APU may be started if no other external power source is available but no earlier than 10 minutes prior to the planned movement.
2. When the planned towing movement as specified under 1 is delayed due ATC, then the APU may be left running.
3. Where no fourth FEGP plug is available on stand, A380 aircraft are permitted to use a GPU to support FEGP usage.
4. If the ambient cabin temperature is too high and the PCA (Pre-conditioned Air) is unable to bring the temperature to a desired value after an extended period of use, or the PCA cannot be used/is not available, such as during a strong wind warning (as promulgated through AOP (Airport Operations Plan) and the Airport Community Apps). APU may be used 30 minutes before ETD for Narrow-bodied Aircraft.
5. If the ambient cabin temperature is too high and the PCA is unable to bring the temperature to a desired value after an extended period of use, or the PCA cannot be used/is not available, such as during a strong wind warning (as promulgated through AOP and the Airport Community Apps). APU may be used 55 minutes before ETD for Wide-bodied Aircraft (Except for A380).
6. If the ambient cabin temperature is too high and the PCA is unable to bring the temperature to a desired value after an extended period of use, or the PCA cannot be used/is not available, such as during a strong wind warning (as promulgated through AOP and the Airport Community Apps). APU may be used 90 minutes before ETD for A380.

vi. If an Airline wishes to make use of the Engine Ground Run pens they should contact British Airways maintenance control on 020-8513 0880. Requests will only be accepted when there is spare capacity.

d) **Runway Crossing Procedure (Runway 09R/27L)**

i. Aircraft and vehicles which are required to cross active runways will be issued instructions by the Ground Movement Controller, which will include a holding point as a clearance limit, at which the aircraft or vehicle will be required to hold short of the active runway.
ii. When reaching the clearance limit specified in the taxiing instructions, the aircraft or vehicle will be instructed to change frequency to that of the Air Controller of the appropriate runway.
iii. After crossing the runway and having reported 'runway vacated' with the Air Controller, the aircraft or vehicle will be instructed to revert to the GMC frequency for further clearance. In the absence of further clearance pilots should turn onto the first available taxiway and come to a stop.

e) **Start-up Procedures**

i. General

1. ATC are responsible for clearance delivery as a separate function from Ground Movement Control (GMC). **Pushback approval must be obtained from GMC.** Pilots who wish to start engines on stand must request permission from GMC. Pushback approval includes permission to start engines during pushback.
2. Pilots are to report their aircraft type, stand number, QNH and the identification letter of the received ATIS information on first contact with 'Heathrow Delivery'.
3. All jet aircraft are to advise ATC if, for any reason, they are unable to accelerate after noise abatement procedures to 250 KT.
4. Any jet aircraft with a minimum clean speed of greater than 250 KT must inform Heathrow Delivery.
5. In Terminal 5 only (T5A, T5B, T5C and T5D Stands 501-596), Ramp Information Display System (RIDS) screens are situated in proximity to the head of stand area. The information provided on each screen will be unique to the flight on stand at any given time and will provide turnaround status information to the flight crew. The screens are for **information only and are not to be mistaken for Visual Docking Guidance System (VDGS).**

ii. **Airport - Collaborative Decision Making (A-CDM)**

1. TOBT/TSAT

(aa) Pilots should take note of the **TSAT** which they receive from their AO/GH or ATC and comply with it;

(bb) **If TOBT or TSAT** can no longer be met, at any time, then TOBT must be updated by AO/GH;

(cc) Pilot should ensure that the flight is ready to depart at **TOBT (window of -5 to +5 minutes).**

2. Start Request - Heathrow Delivery

(aa) Pilot should report ready to Heathrow Delivery at **TOBT (window of -5 to +5 minutes);**

(bb) ATC will then **approve start** or in the case of a delay will **advise the TSAT;**

(i) Pilots to monitor the frequency from this point, as TSAT can improve up to TOBT;

(ii) Start approval will be issued, based on TSAT and the prevailing traffic situation;

(iii) Pilots will be informed of an ATC delay to TSAT in excess of 5 minutes.

(cc) If at **TOBT + 5 minutes** ATC have not received a start up request the aircraft may lose its position in the sequence.

(i) ATC will advise the pilot that a new TOBT is required;

(ii) Once the new TOBT is entered the flight will be re-sequenced according to a new TOBT, with a subsequent delay;

(iii) The aircraft will not be allowed to depart until a valid TOBT is entered and revised TSAT given and complied with.

3. Pushback Request - Heathrow Ground

(aa) Pushback/Start clearance must be requested from Ground no later than 5 minutes after being transferred from Delivery;

(bb) If unable to meet this constraint, the aircraft will not be allowed to pushback. A valid TOBT must then be issued by the AO/GH and ATC will then issue a revised TSAT.

4. Remote Holding Request

(aa) If an eligible AO is aware of a CTOT and wishes to take the delay on a taxiway rather than on the stand, then they should contact the Heathrow Operational Efficiency Cell on +44 (0)208-750 2636 to arrange it;

(bb) In this instance, the TSAT will be adjusted to allow the aircraft to be transferred to GMC earlier for the remote hold.

5. Aircraft De-icing Requirements.

(aa) Annually, Heathrow publishes an Aircraft De-icing Plan (HADIP). All airline operators should ensure that they have read and understood this document. A copy of the plan can be downloaded from www.heathrow.com/airside.

(bb) During periods of high demand for de-icing, Heathrow activates the A-CDM ‘Winter Module’ which includes aircraft de-icing rig allocation capability.

(cc) In order to request de-icing, pilots should follow their company’s standard procedure. In accordance with Heathrow’s de-icing plan, operators will enter the requirement for de-icing into A-CDM, which will ensure that de-icing resources are allocated appropriately. If the aircraft is to be de-iced remotely, operating companies will pass this information to pilots prior to push. Remote de-icing facility locations are shown on chart AD 2-EGLL-2-8.

(dd) When doors are closed and ready to commence de-icing on gate, pilots must call Heathrow Delivery stating “Ready for de-icing”. This call must be made at +/- 5 minutes from TOBT.

(ee) Once de-icing on the gate is complete, pilots should call Heathrow Delivery again, stating 'De-icing complete, ready to push and start'.

(ff) Pilots who have been allocated a remote de-icing area should contact Heathrow Delivery, stating 'Ready to push and start for remote de-icing'.

6. Coordination with Eurocontrol NM.

A permanent and fully automatic data exchange with the Eurocontrol NM (Network Management) is established. This data transfer enables highly accurate early predictions of landing and departure times. Furthermore, this allows for more accurate and efficient calculation of the CTOT due to the use of local target take-off times.

The following system-to-system messages are used:

Messages sent by NMOC to Airport via Publish & Subscribe Service:

- Flight Plan Messages;
- Flight Data Messages.

Messages sent by Airport to the NMOC for arrival flights:

- General Arrival Planning Information Messages (G-API) - up to 48 hours before the flight.

Messages sent by Airport to the NMOC for departure flights:

- Predicted Departure Planning Information Messages (P-DPI) - up to 48 hours before the flight;
- Early Departure Planning Information Messages (E-DPI);
- Target Departure Planning Information Messages (T-DPI);
- ATC Departure Planning Information Messages (A-DPI);
- Cancel Departure Planning Information Messages (C-DPI).

The basic Eurocontrol NM procedures continue to apply.

These DPI and API messages include TOBT, TSAT, TTOT as well as information on the arrival or departure flights and airport resources. The Network Operation will consider these TTOT when updating flight profile in its system and will try to adjust the CTOT accordingly, if possible. With the introduction of P-DPI and G-API messages exchanged with NM Systems, those messages may impact the ATFM Network earlier than the start of A-CDM (EOBT-3h) and up to 48 hours before EOBT, and these data may be used for air traffic flow management (ATFM) purposes.

iii. Clearance Delivery

1. ATC departure clearances may be obtained by Voice RTF or Data link Departure Clearance Service (DCL) (via SITA or ARINC (623)).
2. Voice RTF

(aa) Between 0630 (0530) and 1400 (1300) and between 1500 (1400) and 2200 (2100), pilots may call for ATC clearance up to 15 minutes prior to be being fully ready to push-back.

3. Datalink Departure Clearance Service (DCL) (via SITA or ARINC (623))

(aa) The DCL service is available from EOBT -25 until EOBT +15 minutes.

(bb) DCL Clearances will not be issued if requested later than EOBT +15 minute. Successful clearances must be ACCEPTED within 5 minutes of receipt or a 'Revert to voice' message will be received.

(cc) If any data errors are detected by the system or the controller a 'revert to voice' message will be received.

(dd) If the attempt to obtain a clearance is unsuccessful the aircraft should revert to voice RTF.

(ee) Further details of the DCL service may be obtained from ATC operations on + 44 (0)208-750 2621.

(ff) **Regardless of clearance source, departing aircraft must report their aircraft type, stand number, QNH and the identification letter of the received ATIS information to 'Heathrow Delivery' when fully ready for pushback and start**.

(gg) In strong crosswind conditions (crosswind component above 35 knots), pilots are requested to advise Ground Movement Planning, on start-up, of their aircraft crosswind limitations. This is to enable better tactical planning at the Runway Holding point and a more efficient departure rate. In those conditions, this requirement will be confirmed through ATIS broadcast and NOTAM (if sufficient time allows).

iv. RVR below 400 M

When the RVR is below 400 M pilots are not to request start-up clearance until the reported RVR is equal to or greater than the appropriate value in the following table:

AIRCRAFT TAKE-OFF MINIMA	MINIMUM RVR FOR START-UP CLEARANCE
350 Metres RVR	300 Metres RVR
300 Metres RVR	250 Metres RVR
250 Metres RVR	200 Metres RVR
200 Metres RVR	150 Metres RVR
150 Metres RVR	150 Metres RVR
100 Metres RVR	100 Metres RVR
75 Metres RVR	75 Metres RVR

It is emphasised that these measures will apply only when the reported RVR is below 400 M and the co-operation of all pilots is sought in maintaining the safety level in low minima operations.

v. During busy periods (normally following disruption), aircraft that are fully ready may be transferred to 'Heathrow Planning' prior to GMC. The 'Planning' controller will determine the order that start approvals are issued and will issue expected start times accordingly. Pushback approval must be obtained from GMC.

f) **Push-back procedure**

i. Following push-back from cul-de-sac stands, all aircraft must be pulled forward to a minimum of 100 M from the blast screen (indicated by a painted mark on the taxiway centre-line) before disconnecting the tug. Due to exhaust fume ingestion within the buildings at the ends of each cul-de-sac, engine start-up must be delayed until the aircraft has reached the 100 M point. Pilots should be aware that, in order to maximise capacity within the Kilo (S) Cul-de-sac, push-back clearances provided by ATC may include reference to a numbered 'Tug Release Point' TRP 1, TRP 2 or TRP 3, which should be passed to ground crew along with the clearance. Ground handlers will understand these clearances and perform the push accordingly.
ii. Before flight crew calls for push-back they must ensure that the tug driver is in the tug, ready to push, and able to listen to the communication with ATC.
iii. Flight crews should only illuminate aircraft anti-collision lights following engine start or push back clearance from ATC.

g) **Departures – Minimum Runway Occupancy Time**

i. On receipt of line-up clearance pilots should ensure, commensurate with safety and standard operating procedures, that they are able to taxi into the correct position at the hold and line up on the runway as soon as the preceding aircraft has commenced its take-off roll.
ii. Pilots in receipt of a conditional line up clearance on a preceding departing aircraft (for example; **'ABC123 behind the departing Sky Train A330, line up Runway 27L behind'**) should remain behind the subject aircraft but may cross the runway holding point (subject to there being no illuminated red stop bar) and enter the runway upon receipt of the clearance. There is no requirement for the subject aircraft to have commenced its take-off roll before entering the runway. **Pilots must be aware that there may be a blast hazard as the aircraft on the runway applies power**.

Pilots in receipt of a conditional line up clearance on a preceding arriving aircraft (for example; **'ABC123, behind the landing Sky Train A330, line up Runway 27L behind'**) may cross the runway holding point (subject to there being no illuminated red stop bar) as soon as the landing aircraft has passed the runway entry point.

Pilots are advised that there is an increased risk of Runway Incursions when holding at N11 and NB11. Pilots may mistakenly believe that when on reaching the front of the queue, they have been given permission to line up in turn. Pilots are to be extra vigilant as to whether they have received a line-up clearance from ATC and seek confirmation where there is doubt.

iii. Pilots who require to back-track the runway (including line up from N2W onto Runway 27L) must notify ATC prior to arrival at the holding point.
iv. Whenever possible, cockpit checks should be completed prior to line up and any checks requiring completion whilst on the runway should be kept to the minimum required. Pilots should ensure that they are able to commence the take-off roll immediately take-off clearance is issued.
v. Pilots not able to comply with these requirements should notify ATC as soon as possible once transferred to Heathrow Tower Departures Frequency.

h) **Intersection Departures**

i. Runway 27R; A4; Runway 27L, N3 and S3, Runway 09R; N8 and N10 are **NOT**, for the purposes of wake turbulence, considered by ATC to be intersection departures.
ii. Pilots in receipt of a conditional line up clearance holding at an intersection (for example; **'ABC123, behind the departing Sky Train from the full length, line up Runway 27L via NB3 behind'**) should remain behind the runway holding point until the subject aircraft has passed the intersection at which they are holding.

i) **Reduced Engine Taxi**

i. Whenever operationally and safely feasible, all aircraft are requested to shut down as many engines as possible while taxiing and holding on the ground, **EXCEPT** in the following circumstances:

aa. By any aircraft that is required to cross an active arrival runway;

bb. By any aircraft exiting T and turning west onto S, Link 44 and Link 42 due to jet blast;

cc. By B777 variants in G and H due to jet blast;

ii. Pilots who intend to execute Reduced Engine Taxi on departure **MUST** report their intention to Heathrow Delivery on first contact by data link or if not possible by RT. This is essential for safety and operational reasons.

In the apron areas minimum engine power shall be used as far as possible, and use of reverse thrust for manoeuvring to and from a stand is not permitted.

iii. Any aircraft with a CTOT should plan Reduced Engine Taxi to be ready for departure at CTOT - 5 minutes. This is essential for ATC sequencing.

3 CAT II/III OPERATIONS

a) Runways 09R, 09L, 27R and 27L, subject to serviceability of the required facilities, are suitable for Category II and III operations.
b) During Category II and III operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed when these procedures are in operation by Arrival and Departure ATIS or by RTF. ATC Low Visibility Procedures will only be applied when the RVR is less than 600 M.
c) The ILS on the departure runway will be turned off when the IRVR is greater than 250 M. Pilots requiring the ILS for departure when the IRVR is in the range 275 M to 550 M must inform Heathrow Delivery.
d) Arriving Aircraft: Surface Movement Guidance and Control System (A-SMGCS) is normally available and all runway exits will then be illuminated. Pilots should select the first convenient exit.
e) Pilots are to delay the call 'runway vacated' until the aircraft has completely passed the end of the green/yellow colour coded taxiway centre-line lights.
f) When Low Visibility Procedures are in force a much reduced landing rate can be expected due to the requirement for increased spacing between arriving aircraft. In addition to the prevailing weather conditions, such factors as equipment serviceability may also have an effect on actual landing rates. For information and planning purposes, the approximate landing rates that can be expected are:

IRVR (M)	Expected landing Rate
Between 1000 and 600	34
Between 600 and 150	24
Less than 150	Less than 20

4 WARNINGS

a) Pilots are warned, when landing on Runway 27R in strong southerly/south westerly winds, of the possibility of building-induced turbulence and large windshear effects.
b) Similarly, Runway 27L arrivals may be affected by winds with a strong Northerly component. Building-induced turbulence may be experienced at the mid sections of each runway from winds with a strong Southerly, or strong Northerly component.
c) Electricity pylons running on a line NE/SW and 2.6 NM W from ARP at 182 FT AAL/262 FT AMSL.
d) Paramotor activity at Elm Farm, within the London CTR. Activity is restricted to 1000 FT AMSL within a circle of radius of 0.75 NM centred on 512151.00N 0001929.00W.
e) Model aircraft club activity within Heathrow FRZ. Activity is restricted to 475 FT AMSL within a radius of 0.16 NM centred on 512915.5N 0002459.79W.
f) Model aircraft club activity within Heathrow FRZ. Activity is restricted to 292 FT AMSL. The area of operation of the Small Unmanned Aircraft (SUAs) will be contained in a semi-circle of radius 0.157 NM radiating to the north, with the straight-line end points being located at 512923.9N 0002657.3W and 512922.5N 0002645.1W.
g) Cranes operating within an area bounded by co-ordinates:
513026N 0002321W - 513028N 0002327W - 513027N 0002329W - 513029N 0002328W.
Maximum elevation restricted to 328 FT AMSL. Height 223 FT AGL. Cranes will have obstruction lighting.

5 HELICOPTER OPERATIONS

a) General

i. Normal Flight Priority (defined in CAP 493 Manual of Air Traffic Services) helicopter arrivals, departures and overflights of Heathrow are only permitted on a VFR clearance provided that the Heathrow reported visibility is 5 KM or greater and the reported cloud ceiling 1500 FT or greater.
ii. Special VFR helicopter overflights, along with arrivals and departures via H9 south of Heathrow, are permitted provided that the Heathrow reported visibility is 2 KM or greater and cloud ceiling 600 FT or greater. SVFR helicopter overflights, arrivals and departures are normally restricted to High Flight Priority (A-E) helicopters.
iii. Helicopter operations at Heathrow commence and terminate at Sipson to the north and Bedfont or Feltham to the south. Helicopters must hold at these points unless instructed otherwise by ATC. See chart AD 2-EGLL-4-1.
iv. Whilst holding at Sipson or Feltham, helicopters are separated for both ATC and wake turbulence purposes from fixed wing aircraft landing on, departing from, or executing missed approaches to all runways.
v. When the meteorological conditions exist for VFR flight (detailed in (i)), helicopters approaching the airfield from the south will be held at Bedfont. These helicopters will be separated for wake turbulence but pilots must remain in visual contact with aircraft on approach to 27L. Pilots are warned that missed approach aircraft will turn left at 1000 FT AAL.
vi. When the meteorological conditions do not exist for VFR flight (detailed in (i)), helicopters may require IFR separation and will be held at Feltham to the south. Integration of this traffic will require an increased gap in the IFR arrival stream and the helicopter may incur a significant delay.

vii. Helicopters are not to cross Heathrow below altitude 800 FT.
viii. There are occasions when the departure runway is required for landing traffic. This will also incur extra delay as the helicopter crossing procedures cannot be carried out with aircraft inbound to both runways simultaneously.

b) Crossing procedures Runways 27L/R

i. Helicopters will normally be instructed to cross the departure runway to the east of the threshold. See chart AD 2-EGLL-4-1.
ii. When a suitable gap in the landing stream exists, ATC will pass traffic information on a fixed-wing landing aircraft and issue a crossing clearance behind. The helicopter will cross in the gap after the subject aircraft as close to the threshold as practicable and as expeditiously as possible. Once clear of the runway, route to the east of the departure runway and resume the route to Sipson/ Bedfont as appropriate to hold, unless otherwise instructed by ATC.
iii. Where the departure runway is crossed first, holding prior to crossing the landing runway will be permitted between the two main runways. For aircraft in a holding pattern, this operation must take place between the departure threshold and a line drawn east-west through the southern edge of the Virgin hangar. Chart AD 2-EGLL-4-1 refers. (The hangar has Virgin on all sides and is to the east of the fire training ground where the green 'aircraft' is sited). No helicopter is to cross this line until a clearance to cross the landing stream is received. Having crossed the landing runway route to Sipson/Bedfont as appropriate to hold, unless otherwise instructed by ATC.
iv. In the event of a loss of communication, see paragraph e.

c) Crossing procedures Runways 09L/R

i. The northbound route for helicopters is: Bedfont-Stanwell-West of Terminal 5-Longford-Sipson. See chart AD 2-EGLL-4-1.
ii. If there is inbound traffic to 09R, helicopters will be instructed by ATC to route Bedfont-Stanwell. The pilot will be instructed to hold at Stanwell and will wait for a suitable gap in the approach. If there is no 09R inbounds, helicopters will be routed Bedfont-Stanwell-hold West of Terminal 5. This operation is to take place between the departure threshold and a line drawn east-west through the mid-point of Terminal 5 main building. Chart AD 2-EGLL-4-1 refers. No helicopter is to cross this line until a clearance to cross the 09L landing stream is received. When a suitable gap in the 09L landing stream exists, ATC will pass traffic information on a fixed-wing aircraft and issue a crossing clearance behind. The helicopter will cross in the gap as close to the runway threshold as possible. Once clear of the landing stream, route Longford-Sipson to hold, unless otherwise instructed by ATC.
iii. The southbound route for helicopters is: Sipson-Longford-West of Terminal 5-Stanwell-Bedfont. See chart AD 2-EGLL-4-1.
iv. Helicopters will be instructed by ATC to route Sipson-Longford to hold. When a suitable gap in the 09L landing stream exists, ATC will pass traffic information on a fixed-wing landing aircraft and issue a crossing clearance behind. The helicopter will cross in the gap as close to the runway threshold as possible (this may be before Longford) and as expeditiously as possible. Once south of the runway the helicopter will route to the west of Terminal 5 and re-join the route; West of Terminal 5-Stanwell-Bedfont (and must remain west of 09R). If there is inbound traffic on the approach of 09R no clearance will be issued beyond Longford. On completion of the route, hold at Bedfont unless instructed otherwise by ATC.
v. Longford and Stanwell are separated for both wake vortex and ATC visual separations only. Whilst helicopters are transiting between Bedfont and Sipson and vice versa, traffic information will be passed to fixed-wing aircraft for the relevant runway.
vi. In the event of a loss of communication, see paragraph e.

d) Landing and Departing Procedures.

i. All helicopters to and from Heathrow are subject to **PPR**.
ii. Inbound and outbound helicopters will routinely use the helicopter aiming point (HAP). Procedures to/from the HAP are visual to/ from Bedfont. If prevailing weather conditions do not permit this, see Paragraph a (ii), Feltham will be used and standard separation will apply.
iii. If inbound from/outbound to the north, the helicopter will be instructed by ATC to cross both runways from/to Bedfont or Feltham, see paragraphs b or c.
iv. When instructed to route to the HAP from Bedfont or Feltham, or vice versa, remain south of 27L/09R at all times.
v. A 4 minute wake vortex separation exists for all helicopter movements to/from the HAP subsequent to any A380 departures to/from 27L/09R.
vi. The helicopter aiming point is located on the taxiway area east of Link 43. It is marked with an 18 M sided triangle with a conventional 'H'. This aiming point is lit and available for use throughout operational hours. The take-off and climb surface has been protected to 8% to the east and west of the aiming point (see Chart AD 2-EGLL-4-1). Pilots are advised of the presence of a radar tower located on grass area 170 M east of the aiming point. Tower height 31 FT AAL/107 FT AMSL.
vii. Caution must be exercised when using this aiming point which is on a live taxiway.
viii. Helicopters alighting at the aiming point will ground or air-taxi to the parking areas as directed by ATC.

e) Loss of Communications Procedures

i. If no onward clearance has been received before reaching, or when holding at, Sipson or Bedfont, **reverse track and leave the CTR** via: H2-H10-Cookham if approaching **Sipson** or H9 if approaching **Bedfont.**
Do not attempt to cross London Heathrow Airport.

ii. For helicopters overflying or landing at London Heathrow Airport.

1. Between Sipson and Bedfont:

aa if the landing runway has already been crossed, cross the departure runway downwind of the threshold, exercising extreme caution with regard to possible landing traffic; **and leave the CTR via H2-H10-Cookham or H9** to the south as appropriate.

bb if the departure runway has been crossed, with instructions given to hold at the Virgin hangar or West of Terminal 5 to, **reverse track** and to cross the departure runway downwind of the threshold, exercising extreme caution with regard to the possibility of landing traffic; and **leave the CTR via H2-H10-Cookham or H9** to the south as appropriate.

2. If landing at London Heathrow Airport by day or night, and having crossed the runways, if necessary as detailed above:

   aa **Proceed to hold at Bedfont**;

   bb **Wait for the Helicopter Aiming Point to illuminate;**

   cc **Land with caution and await Leader vehicle escort.**

Note: *the selection of squawk 7600 will alert Air Traffic Control to your RTF failure.*

6 USE OF RUNWAYS

a) Preferential Runway System

i. In weather conditions when the tail wind component is no greater than 5 KT on the main Runway 27R and 27L, these runways will normally be used in preference to Runways 09R and 09L, provided the runway(s) surface is dry.
ii. Pilots who ask for permission to use the runway into wind when, in accordance with these procedures, Runway 27R or 27L are in use, should understand that their arrival or departure may be delayed.

b) Runway Vacation Guidelines

i. Arrivals – Minimum Runway Occupancy Time

Pilots are reminded that rapid exit from the landing runway enables ATC to apply minimum spacing on final approach, thereby achieving maximum runway utilisation and minimising the occurrence of missed approaches. All arrivals are to ensure that they are fully vacated before stopping.

ii. **Aircraft lands but cannot contact Heathrow Ground due to RTF congestion:** In this case the pilot should completely vacate the landing runway and taxi into the first taxiway available. The pilot should then hold position until contact with GMC can be established.

iii. A380 should plan to vacate at:

RWY 09L - TWY A6;
RWY 09R - TWY S4E and N4E;
RWY 27L - TWY S6 and N6;
RWY 27R - TWY A10E.

A380 unable to vacate at these exits shall inform approach on first contact.

Vacating beyond the following exits will infringe the localiser critical area. Except for safety reasons, A380 shall not vacate beyond:

RWY 09L - TWY A5;
RWY 09R - TWY S4E and N4E;
RWY 27L - TWY S6 and N7;
RWY 27R - TWY A11.

c) Aircraft Separation

i. Departures - Wake Turbulence Separation

Wake turbulence separations are applied in accordance with the RECAT-EU departure separations. The separations applied are described in EUROCONTROL document 'RECAT-EU European Wake Turbulence Categorisation and Separation Minima on Approach and Departure'. On departure, when in receipt of line up clearance, the pilot must inform ATC if greater wake turbulence separation than the minimum specified will be required behind the preceding aircraft. Failure to do so may result in additional delay.

ii. In certain weather conditions 2.5 NM spacing may be applied on final approach. The conditions when this spacing may be utilised are:

1. Visibility and cloud ceiling equal to or better than 10 KM and 1500 FT with a minimum recommended headwind component of approximately 10 KT.
2. Runway Condition Code is 5 or 6.
3. When aircraft involved in the procedure are being operated normally. It is the pilot's responsibility to inform ATC if they are operating their aircraft other than in the normal manner.
4. Speed on final approach and 2.5 NM spacing from preceding traffic must be stabilised by 8 NM.

7 TRAINING

Not applicable

EGLL AD 2.21 NOISE ABATEMENT PROCEDURES

Notice under Section 78(1) of the Civil Aviation Act 1982

Whereas:

(1) By virtue of the Civil Aviation (Designation of Aerodromes) Order 1981 (a) Heathrow Airport – London is a designated aerodrome for the purpose of Section 78 of the Civil Aviation Act 1982 (b);

(2) the requirements specified in this notice appear to the Secretary of State to be appropriate for the purpose of limiting, or of mitigating the effect of, noise and vibration connected with the taking off or, as the case may be, landing of aircraft at Heathrow Airport – London;

Now, therefore, the Secretary of State, in exercise of the powers conferred on him by Section 78 (1) and (12) of the Civil Aviation Act 1982, by this notice published in the manner prescribed by the Civil Aviation (Notices) Regulations 1978 (c), hereby provides as follows:

1 This notice may be cited as the Heathrow Airport – London (Noise Abatement Requirements) Notice 2010 and shall come into operation on 1 July 2010.

2. The Heathrow Airport – London (Noise Abatement Requirements) Notice 2004 (d) is hereby revoked.

3 It shall be the duty of every person who is the operator of any aircraft which is to take off or land at Heathrow Airport – London to secure that, after the aircraft takes off or, as the case may be, before it lands at the aerodrome the following requirements are complied with:

1. After take-off the aircraft shall be operated in such a way that it is at a height of not less than 1000 FT AAL at 6.5 KM from start of roll as measured along the departure track of that aircraft.

2. The sites of the noise monitoring terminals relating to Heathrow Airport – London are:

Description	OS Co-ordinates	Elevation above aerodrome	Latitude	Longitude
Site 6: Thames Water, Wraysbury	TQ 0207 7502	-6 M	*512754N	0003155W
Site 19 (A): Colnbrook	TQ 0263 7693	-4 M	*512855N	0003124W
Site 18 (B): Poyle	TQ 0278 7647	-4 M	*512840N	0003117W
Site 17 (C): Horton	TQ 0219 7570	-6 M	*512816N	0003148W
Site 15 (D): Coppermill	TQ 0198 7478	-7 M	*512746N	0003200W
Site 14 (E): Wraysbury Reservoir (South)	TQ 0173 7399	-7 M	*512721N	0003214W
Site 11 (F): Hounslow West	TQ 1148 7605	-3 M	*512821N	0002347W
Site 12 (G): Hounslow Cavalry Barracks	TQ 1167 7561	-3 M	*512806N	0002337W
Site 10 (H): Hounslow Heath	TQ 1163 7495	-3 M	*512745N	0002340W
Site 13 (I): East Feltham	TQ 1168 7399	-4 M	*512714N	0002338W
Site 20 (J): Hounslow Cavalry Barracks North	TQ 1173 7577	-3 M	*512812N	0002334W
Site 21 (K): Hobbledown	TQ 1152 7466	-1 M	*512736N	0002346W

3. Subject to sub-paragraphs (5) and (6) below, any aircraft shall, after take-off, be operated in such a way that it will not cause more than 94 dBA Lmax by day (from 0700 to 2300 hours local time) as measured at any noise monitoring terminal at any of the sites referred to in sub-paragraph (2) above.

4. Subject to sub-paragraphs (5) and (6) below, any aircraft shall, after take-off, be operated in such a way that it will not cause more than 89 dBA Lmax by night (from 2300 to 0700 hours local time) **and** that it will not cause more than 87 dBA Lmax during the night quota period (from 2330 to 0600 hours local time) as measured at any noise monitoring terminal at any of the sites referred to in sub-paragraph (2) above.

5. The limits specified in sub-paragraphs (3) and (4) above shall be adjusted in accordance with the following table in respect of any noise monitoring terminal at any of the sites referred to in the table in sub-paragraph (2) above to take account of the location of that terminal and its ground elevation relative to the aerodrome elevation.

Description	Adjustment dBA
Site 6	minus 0.3
Site 19 (A)	plus 2.3
Site 18 (B)	plus 4.8
Site 17 (C)	minus 0.3
Site 15 (D)	minus 0.6
Site 14 (E)	minus 1.0
Site 11 (F)	plus 0.9
Site 12 (G)	minus 0.1
Site 10 (H)	plus 1.2
Site 13 (I)	minus 0.3

Description	Adjustment dBA
Site 20 (J)	minus 0.2
Site 21 (K)	plus 1.5

6. For the purpose of determining an infringement of the limits specified in sub-paragraphs (3) and (4) above, if the aircraft was required to take-off with a tailwind, an amount of up to 2 dB of the noise recorded at the noise monitor should be disregarded. The amount to be disregarded shall be:

- 0.4 dB for a tailwind of up to 1 KT
- 0.8 dB for a tailwind exceeding 1 KT but not exceeding 2 KT
- 1.2 dB for a tailwind exceeding 2 KT but not exceeding 3 KT
- 1.6 dB for a tailwind exceeding 3 KT but not exceeding 4 KT
- 2.0 dB for a tailwind exceeding 4 KT.

For this purpose, tailwind is to be calculated from the wind data measured in the on-airfield anemometers and wind vanes according to the formula:

(windspeed x cosine (runway heading minus wind direction)) x – 1.

7. Where the aircraft is a jet aircraft, after passing the point referred to in sub-paragraph (1) above, it shall maintain a gradient of climb of not less than 4% to an altitude of not less than 4000 FT. The aircraft shall be operated in such a way that progressively reducing noise levels at points on the ground under the flight path beyond that point are achieved.

8. After the aircraft takes off from any runway specified in the first column of the following table, the aircraft shall follow the Noise Preferential Routeing Procedure specified in the third column of the table which relates to the ATC clearance previously given to the aircraft and specified in the second column of the table, whether flying in IMC or VMC:

a) Provided that nothing in this sub-paragraph (8) shall apply:

i. to any propeller driven aircraft whose MTWA does not exceed 5700 KG; or
ii. during the period between 0600 and 2330 hours (local time), any propeller driven aircraft whose MTWA does not exceed 17000 KG or any Dash 7 aircraft.

Take-off Runway	ATC Clearance	Procedure	Take-off Runway	ATC Clearance	Procedure
27R	Via Compton	Straight ahead to intercept LON VOR R255 until LON D7, then turn right onto NDB WOD QDM 268°, then to CPT VOR.	27L	Via Compton	Straight ahead to intercept LON VOR R255 until LON D7, then turn right onto NDB WOD QDM 268°, then to CPT VOR.
	Via MAXIT	Straight ahead to intercept LON VOR R255. At LON D5 turn left onto BUR NDB QDR 161°. At LON D12 turn right onto MID VOR R010 and continue to MAXIT.		Via MAXIT	Straight ahead to intercept LON VOR R239. At LON D5.5 turn left onto BUR NDB QDR 161°. At LON D12 turn right onto MID VOR R010 and continue to MAXIT.
	Via Brookmans Park	Climb straight ahead to be established on BUR NDB QDM 297° by LON D4. At LON D6 turn right onto CHT NDB QDM 053°. At CHT NDB turn right onto BPK VOR R243 to BPK VOR.		Via Brookmans Park	Climb straight ahead to be established on BUR NDB QDM 297° by LON D3. At LON D6 turn right onto CHT NDB QDM 053°. At CHT NDB turn right onto BPK VOR R243 to BPK VOR.
	Via UMLAT	Climb straight ahead to be established on BUR NDB QDM 297° by LON D4. At LON D7 turn right onto BUR NDB QDR 356° (MID VOR R355), Continue to UMLAT.		Via UMLAT	Climb straight ahead to be established on BUR NDB QDM 297° by LON D3. At LON D7 turn right onto BUR NDB QDR 356° (MID VOR R355), Continue to UMLAT.
	Via Detling	Straight ahead to LON D2, then turn left onto NDB EPM QDM 136°, to EPM NDB, then continue on DET VOR R270 to DET VOR.		Via Detling	Straight ahead to I-LL D1, then turn left onto NDB EPM QDM 136°, to EPM NDB, then continue to DET VOR R270 to DET VOR.
	Via GOGSI	Straight ahead to intercept LON VOR R255 until LON D7, then turn right onto WOD NDB QDM 268°. Turn left at LON D13 to intercept SAM VOR R032, then to GOGSI.		Via GOGSI	Straight ahead to intercept LON VOR R255 until LON D7, then turn right onto WOD NDB QDM 268°. Turn left at LON D13 to intercept SAM VOR R032, then to GOGSI.
09L	Via Compton	Straight ahead to LON D1.5, then turn right onto NDB WOD QDM 281°, continue to CPT VOR.	09R	Via Compton	Straight ahead to LON D2, then turn right onto NDB WOD QDM 281°, continue to CPT VOR.

Take-off Runway	ATC Clearance	Procedure	Take-off Runway	ATC Clearance	Procedure
	Via MODMI	Straight ahead to LON D1.5, then turn right onto LON VOR R124 until LON D3.5, then turn right onto MID VOR R025, continue to MODMI.		Via MODMI	Straight ahead to LON D2, then turn right onto LON VOR R124 until LON D3.5, then turn right onto MID VOR R025, continue to MODMI.
	Via Brookmans Park	Climb straight ahead to LON D1.5, then turn left onto track 050° to intercept LON VOR R070. Cross LON D10 and turn left onto BPK VOR R195, continue to BAPAG then BPK VOR.		Via Brookmans Park	Climb straight ahead to LON D2, then turn left onto track 050° to intercept LON VOR R070. Cross LON D10 and turn left onto BPK VOR R195, continue to BAPAG then BPK VOR.
	Via ULTIB	Climb straight ahead to LON D1.5, then turn left onto track 050° to intercept LON VOR R070, cross LON D10 and turn left onto BIG VOR R328. Continue to ULTIB.		Via ULTIB	Climb straight ahead to LON D2, then turn left onto track 050° to intercept LON VOR R070, cross LON D10 and turn left onto BIG VOR R328. Continue to ULTIB.
	Via Detling	Straight ahead to LON D1.5, then turn right onto track 121°. At LON D4 turn left to establish on DET VOR R282 by DET D34. Continue to DET VOR.		Via Detling	Straight ahead to LON D2, then turn right onto track 120°. At LON D4 turn left to establish on DET VOR R282 by DET D34. Continue to DET VOR.
	Via GASGU	Straight ahead to LON D1.5, then turn right onto LON VOR R124 until LON D5, then turn right onto OCK VOR R041. At OCK VOR turn right onto OCK VOR R253 to GASGU.		Via GASGU	Straight ahead to LON D2, then turn right onto LON VOR R124 until LON D5, then turn right onto OCK VOR R041. At OCK VOR turn right onto OCK VOR R253 to GASGU.

Note: *As the Navigation Aids (NAVAIDs) used previously in the noise abatement procedures are withdrawn as part of the NATS NERL NAVAID Rationalisation project and the conventional Standard Instrument Departures have been RNAV Substituted, the following latitude and longitude coordinates replicate the specific location of the old NAVAIDs which are listed below:*

NAVAID	
LON VOR	512914.09N 0002759.54W
DET VOR	511814.41N 0003550.19E
MID VOR	510314.23N 0003730.01W
BIG VOR	511951.15N 0000205.32E
BPK VOR	514459.05N 0000624.25W
BNN VOR	514334.19N 0003259.10W
EPM NDB	511910.43N 0002219.12W
BUR NDB	513108.44N 0004037.89W
CHT NDB	513723.32N 0003106.87W
WOD NDB	512710.02N 0005243.68W

9. Where the aircraft is approaching the aerodrome to land it shall commensurate with its ATC clearance minimise noise disturbance by the use of continuous descent and low power, low drag operating procedures (referred to in Detailed Procedures for descent clearance in AD 2 paragraphs 3 and 4). Where the use of these procedures is not practicable, the aircraft shall maintain as high an altitude as possible. In addition, when descending on initial approach, including the closing heading, and on intermediate and final approach, thrust reductions should be achieved where possible by maintaining a 'clean' aircraft configuration and by landing with reduced flap, provided that in all the circumstances of the flight this is consistent with safe operation of the aircraft.

10. Subject to sub-paragraph (11) below:

a) Between 0600 and 2330 hours (local time) where the aircraft is approaching Runway 27 (L or R) and is using the ILS in IMC or VMC it shall not descend on the glidepath below an altitude of 2500 FT (Heathrow QNH) before being established on the localizer, nor thereafter fly below the glidepath. An aircraft approaching without assistance from the ILS shall follow a descent path which will not result in its being at any time lower than the approach path that would be followed by an aircraft using the ILS glidepath, and shall follow a track to intercept the extended runway centre-line at or above 2500 FT.
b) Between 2330 and 0600 hours (local time) where the aircraft is approaching runway 27 (L or R) and is using the ILS in IMC or VMC it shall not descend on the glidepath below an altitude of 3000 FT (Heathrow QNH) before being established on the localizer at not less than 10 NM from touchdown, nor thereafter fly below the glidepath. An aircraft approaching without assistance from the ILS shall follow a descent path which will not result in its being at any time lower than the approach path that would be followed by an aircraft using the ILS glidepath, and shall follow a track to intercept the extended runway centre-line at or above 3000 FT.
c) Between 0700 and 2300 hours (local time) where the aircraft is approaching Runway 09 (L or R) and is using the ILS in IMC or VMC it shall not descend on the glidepath below an altitude of 2500 FT (Heathrow QNH) before being established on the localizer, nor thereafter fly below the glidepath. An aircraft approaching without assistance from the ILS shall follow a descent path which will not result in its being

at any time lower than the approach path that would be followed by an aircraft using the ILS glidepath, and shall follow a track to intercept the extended runway centre-line at or above 2500 FT.

d) Between 2300 and 0700 hours (local time) where the aircraft is approaching Runway 09 (L or R) and is using the ILS in IMC or VMC it shall not descend on the glidepath below an altitude of 3000 FT (Heathrow QNH) before being established on the localizer at not less than 10 NM from touchdown, nor thereafter fly below the glidepath. An aircraft approaching without assistance from the ILS shall follow a descent path which will not result in its being at any time lower than the approach path that would be followed by an aircraft using the ILS glidepath, and shall follow a track to intercept the extended runway centre-line at or above 3000 FT.

11. Nothing in sub-paragraph (10) above shall apply to any propeller driven aircraft whose MTWA does not exceed 5,700 KG.

12. Without prejudice to the provisions of sub-paragraphs (1) - (11) above, the aircraft shall at all times be operated in a manner which is calculated to cause the least disturbance practicable in areas surrounding the aerodrome.

13. The requirements set out in sub-paragraphs (1) - (12) above may at any time be departed from to the extent necessary for avoiding immediate danger or for complying with the instructions of an Air Traffic Control Unit.

4 In this notice, except where the context otherwise requires:

'local time' means, during any period of summer time, the time fixed by or under the Summer Time Act 1972 (e), and outside that period, Universal Co-ordinated Time;

'dBA' means a decibel unit of sound level measured on the A-weighted scale, which incorporates a frequency dependent weighting approximating the characteristics of human hearing;

'Lmax' means the highest instantaneous sound level recorded (with the noise monitoring terminal set at the slow meter setting);

other abbreviations used are defined in GEN 2-2 of the United Kingdom Aeronautical Information Publication (Air Pilot).

J Hotchkiss
Divisional Manager
Aviation Environmental Division
7 April 2010 **Department for Transport**

a) S.I. 1981/651.
b) 1982 c.16.
c) S.I. 1978/1303.
d) The Heathrow Airport – London (Noise Abatement Requirements) Notice 2004 signed by G Pendlebury on 24 March 2004.
e) 1972 c.6.

Notes
(These notes are not part of the notice)

1. The Noise Preferential Routeing Procedures specified in the above notice are compatible with normal ATC requirements. The use of the routeings specified above is supplementary to noise abatement take-off techniques as used by piston-engined, turbo-prop, turbo- jet and turbo-fan aircraft.

2. The attention of operators is drawn to the provisions of Section 78 (2) of the Civil Aviation Act 1982, under which if it appears to the Secretary of State that any of the requirements in this notice have not been complied with as respects any aircraft, he may direct the manager of the aerodrome to withhold facilities for using the aerodrome from the operator of the aircraft. However, the Secretary of State accepts that occasional and exceptional breaches of the noise limits, or of the height requirement, would not be expected to lead to sanctions under Section 78 (2). Such breaches would, however, run the risk of financial penalties.

3. Noise from ground running of aircraft engines is controlled in accordance with instructions issued by Heathrow Airport Limited.

4. In the interests of noise abatement, certain restrictions are imposed on the operation of training flights at this aerodrome. Operators concerned are advised to obtain details from Heathrow Airport Limited.

5. To minimise disturbance in areas adjacent to the aerodrome, commanders of aircraft are requested to avoid the use of reverse thrust after landing, consistent with the safe operation of the aircraft, between 2330 and 0600 hours (local time).

6. Full details concerning the maximum number of occasions and the types of aircraft which are permitted to take off or land at night during specified periods at this aerodrome are promulgated by Supplement.

7. For monitoring purposes, a descent will be deemed to have been continuous provided that no segment of level flight longer than 2.5 NM occurs below 6800 FT QNH and 'level flight' is interpreted as any segment of flight having a height change of not more than 50 FT over a track distance of 2 NM or more, as recorded in the airport Noise and track-keeping system.

8. For monitoring purposes, a departure will be deemed to have complied with the Noise Preferential Routeing (NPR) if, in the portion of flight below the appropriate vectoring altitude (see note 9 below), it is properly recorded by the airport's noise and track-keeping (NTK) system as having flown wholly within the Lateral Swathe (LS). The LS is defined from the centre-line of the relevant route coded in the NTK system, based upon a map accredited for this purpose by the Department for Transport, by the closer to the route centre-line depicted on the map of (a) a pair

of lines either side, each diverging at an angle of 10° from a point on the runway centre-line 2000 M from start-of-roll; and (b) a pair of parallel lines representing a distance of 1.5 KM either side of the route centre-line. For avoidance of doubt, the depicted route and LS may include curved sections representing turns.

9. Aircraft which have attained an altitude of 4000 FT (Heathrow QNH) may be directed by air traffic controllers onto a different heading and commanders complying with any such direction will not by reason of so complying be deemed to have departed from the Noise Preferential Routeing.

EGLL AD 2.22 FLIGHT PROCEDURES

1 ARRIVAL ROUTES

a) Standard Arrival Routes (STARs) for aircraft inbound via the ATS Route System are detailed at AD 2-EGLL-7-1 to 7-14.
b) Aircraft inbound other than via the ATS Route System:

   i. Aircraft inbound to London Heathrow Airport direct from the London FIR will be required to use the procedures for flights via the ATS Routes System.
   ii. Aircraft departing from aerodromes outside the geographical boundary of the London TMA will normally be required to route via one of the Terminal Holding Points detailed in paragraph 2 (b).
   iii. Pilots of aircraft departing from an aerodrome less than 10 minutes flying time from the London CTR boundary are to contact the LTCC Group Supervisor Airports on 02380-401106 before departure.

c) Aircraft positioning from other London Airports:

   i. Aircraft positioning from London Gatwick Airport will be cleared via BIG VOR as detailed in AD 2-EGKK-6-2.
   ii. Aircraft positioning from London Luton Airport will be cleared via BNN VOR as detailed in AD 2-EGGW-1-14 paragraph 5.

2 HOLDING

a) Terminal Holding Fixes are established at Lambourne (LAM), Biggin (BIG), Bovingdon (BNN) & Ockham (OCK) DMEs as detailed on the appropriate STAR charts. Aircrew are not required to state time and level when entering/reaching the holding fix.
b) Holding patterns for use following a missed approach are established as follows:

Holding Point	Holding Procedures
CHT NDB	Holding axis 293° M inbound, turning left, Maximum holding speed 220 KT, Holding level 3000 FT ALT
EPM NDB	Holding axis 274° M inbound, turning left, Maximum holding speed 220 KT, Holding level 3000 FT ALT

c) From the holding patterns, aircraft will normally be directed by the Radar Controller, as detailed in paragraph 3 below, to a position from which a straight-in final approach can be made. When traffic conditions permit, suitably equipped and approved aircraft will be permitted to carry out P-RNAV approach procedures as detailed in paragraph 4 below. Exceptionally, when circumstances necessitate, pilots may be instructed to carry out the Approach procedures without Radar Control as detailed in paragraph 5 below. Pilots are reminded of the Continuous Descent Approach noise abatement requirements detailed in AD 2.21.

3 APPROACH PROCEDURES WITH RADAR CONTROL

a) When arriving traffic is being sequenced under radar direction, that part of the approach between the holding fix and the Final Approach track will be flown under direction from the Radar Controller. Once the aircraft is under the jurisdiction of 'Heathrow Director' changes of heading or Flight Level/altitude will be made only on instructions from the Radar Controller except in the case of Radio Communications Failure in the aircraft or at the ATS Unit.
b) The procedures are designed to maximise runway capacity and to minimise noise disturbance in the areas overflown during the approach. Aircraft commanders are requested to conform to low power, low drag operating techniques to the maximum extent practicable.
c) Detailed Procedures

   i. Headings and flight levels at which to leave the holding facility will be passed by ATC. Radar vectors will be given and descent clearance will include an estimate of the track distance to touchdown. Further distance information will be given between initial descent and the intercept heading onto the ILS.
   ii. **Descent profile:** On receipt of descent clearance the pilot should descend at the rate he judges will be best suited to the achievement of continuous descent, the objective being to join the glide path at the appropriate height for the distance without recourse to level flight.

   Note: *Pilots of suitably equipped aircraft may monitor their route against the approach procedures without radar control in order to better judge their descent profile against distance to touchdown. However, if doing so pilots are reminded of the need to comply with the instructions of the radar controller at all times.*

   iii. **Speed Control:** Adherence to speeds assigned by ATC is mandatory. Pilots should typically expect the following speed restrictions to be enforced: 220 KT from the holding facility during the initial approach phase; 180 KT on base leg/closing heading to final approach; between 180 KT and 160 KT when established on final approach and thereafter 160 KT to 4 DME. These speeds are applied for ATC separation purposes. In the event of a new (non speed related) ATC instruction being issued (eg an instruction to descend on ILS) pilots shall continue to maintain the previously allocated speed. All speed restrictions are to be flown as accurately

as possible. Aircraft unable to conform to these speeds must inform ATC and state what speeds can be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as is feasible within their own operational constraints. Pilots should advise ATC if circumstances necessitate a change of speed for aircraft performance reasons.

iv. **Final Approach:** Wake turbulence separation on final approach is based on the RECAT EU PWS wake scheme in place of UK published minima. No special procedures apply, and the importance of speed control adherence as described in paragraph (iii) above remains.
v. **Transfer to Tower:** Pilots are to report their callsign, distance from touchdown, type of approach and runway to which they are making their approach, on transfer to Heathrow Tower, (for example, ABC123, 7 miles, ILS, Runway 27L).
vi. **Runway Occupancy:** The spacing provided between aircraft will be designed to achieve maximum runway utilisation within the parameters of safe separation minima (including wake turbulence separation) and runway occupancy. It is important to the validity of the separation provided, and to the achievement of optimum runway capacity, that runway occupancy time is kept to a minimum consistent with the prevailing conditions.
vii. **Missed Approach:** Missed Approach procedures are detailed on the appropriate Instrument Approach Charts. Special procedures are also detailed for use in the event of a Radio Communications Failure following Missed Approach

d) Radar Failure: In the event of radar failure, new instructions will be issued to each aircraft under radar control and the procedures detailed in paragraph 5 will be brought into use.
e) Radio Communications Failure at the ATC Unit: If radio communications fails at the ATC Unit when under radar control, pilots are to contact 'Heathrow Tower' on 118.705 MHz for new instructions.

4 APPROACH PROCEDURES WITHOUT RADAR CONTROL

a) Exceptionally, when traffic is not being sequenced by radar direction, aircraft will be cleared from the holding facility to carry out the appropriate Initial Approach Procedure without Radar Control as detailed on the Charts at AD 2-EGLL-7-15 and AD 2-EGLL-7-21.
b) The procedures are profiled to be compatible with a Continuous Descent Approach vertical profile and assume aircraft can maintain a descent gradient of approximately 320 FT per NM (3° descent angle).
c) The procedures are, as far as is practicable using conventional navigation means, laterally and vertically profiled and incorporate speed control to approximate the nominal flight profiles used by aircraft when under radar direction. They may therefore assist pilots of suitably equipped aircraft to monitor their position and assist in the achievement of the Continuous Descent Approach noise abatement requirement when under radar direction.

5 LOSS OF COMMUNICATIONS PROCEDURES (ARRIVING AIRCRAFT)

a) In the event of a complete radio communications failure in an aircraft the pilot is to adopt the appropriate procedures detailed at ENR 1.1.3 except as detailed below.
b) When complete radio communications failure occurs in the aircraft before ETA, or before EAT when this has been received and acknowledged the aircraft will:

i. fly to the appropriate terminal holding point as detailed in the STAR;
ii. hold until the last acknowledged ETA plus 10 minutes, or EAT when this has been given;
iii. then commence descent for landing in accordance with the appropriate initial approach procedures without radar control as detailed at AD 2-EGLL-7 and appropriate instrument approach procedure detailed in AD 2-EGLL-8 and;
iv. land within 30 minutes (or later if able to approach and land visually).

c) If complete radio communications failure in the aircraft occurs after the aircraft has reported to ATC on reaching the holding point the aircraft will:

i. maintain the last assigned holding level at the terminal holding point until:

1. ATA over the holding point plus 10 minutes or 10 minutes after the last acknowledged communications with ATC, whichever is the later; or
2. EAT when this has been received and acknowledged.

ii. then commence descent for landing in accordance with the appropriate initial approach procedures without radar control as detailed at AD 2-EGLL-7 and appropriate instrument approach procedure detailed in AD 2-EGLL-8 and;
iii. land within 30 minutes (or later if able to approach and land visually).

d) If complete radio communications failure in the aircraft occurs during initial approach under radar direction, the procedures to be followed are detailed on the Chart at AD 2-EGLL-5-1.
e) If complete radio communications failure in the aircraft occurs following a missed approach the aircraft will:

i. fly to the appropriate missed approach holding point at 3000 FT ALT;
ii. complete at least one holding pattern;
iii. then commence an approach for landing in accordance with the appropriate initial approach procedures without radar control as detailed at AD 2-EGLL-7.

6 LOSS OF COMMUNICATIONS PROCEDURES (DEPARTING AIRCRAFT)

a) Outbound traffic operating on UMLAT 1F 1G: If a clearance to climb or re-routing instructions have not been given, comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedure detailed at AD 2-EGLL-6-4, then route via T418 to WOBUN; at WOBUN, commence climb to flight planned level.
b) Outbound traffic operating on MAXIT 1F 1G: If a clearance to climb or re-routing instructions have not been given, comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedure detailed at AD 2-EGLL-6-2.

c) Outbound traffic operating on MODMI 1J 1K: If a clearance to climb or re-routing instructions have not been given, comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedure detailed at AD 2-EGLL-6-2.
d) All outbound traffic except those operating in accordance with items a, b and c above: Comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedures listed on the relevant chart contained in AD 2-EGLL or ATC clearance issued. After this adopt the appropriate procedures as notified in ENR 1.1, Section 3.4.

7 DEPARTURE PROCEDURES

a) Standard Instrument Departure (SID) procedures for aircraft departing from London Heathrow Airport are detailed at AD 2-EGLL-6-1 to 6-7 and incorporate the Noise Preferential Routes (NPRs) detailed in AD 2.21.
b) Departure Speed Restriction: In order to optimise the departure flow and assist in the separation between successive departing aircraft a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase 'No ATC Speed Restriction'. **Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation.**
c) If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation.
d) Flight crew of aircraft unable to meet SID climb restrictions must inform Heathrow Delivery via voice prior to pushback. Restrictions/delays may apply.
e) Expect first CPDLC Data Link Authority to be EGTT.

8 VFR AND SPECIAL VFR CLEARANCE IN THE LONDON CTR

a) VFR and Special VFR clearances for flights within the London CTR may be requested and will be given whenever traffic conditions permit. These flights are subject to the general conditions laid down for VFR and Special VFR flights detailed at ENR 1.2 and will normally be given only to aircraft which carry RTF including the appropriate frequencies listed in EGLL AD 2.18.
b) The use of VFR and Special VFR clearances is intended for the following types of flight:

i. Light aircraft that wish to proceed to or from an aerodrome/landing site within the CTR or to transit the CTR;
ii. Aircraft using the local flying areas and the access lanes notified for Brooklands, Denham, Fairoaks and White Waltham and complying with the published procedures will be considered as complying with a VFR clearance;
iii. Aircraft carrying out non-standard flights, such as photographic survey flights, which may require penetration of the London CTR in VMC.

c) Weather minima for aircraft arriving, departing or helicopter crossing at Heathrow is as follows;

Type of Operation	Visibility Restriction	Cloud Restriction
VFR arrival/departure/heli crossing	5 KM or more	Cloud Ceiling 1500 FT or greater
SVFR arrival/departure/heli crossing	2 KM or more	Cloud Ceiling 600 FT or greater

Note: *SVFR helicopter crossings should normally be restricted to High Flight Priority (A-E) helicopters.*

d) Access to the Inner Area of the London CTR (see paragraph 11 and AD-2-EGLL-3-2) requires PPR by telephone on the day at least 60 minutes in advance. Prior notification of Inner Area flights, other VFR or Special VFR flights and general enquiries about flights in the London CTR may be made via the London Terminal Control Senior Watch Assistant, Tel: 02380-401110.
e) Pilots who wish to depart Heathrow on a VFR or Special VFR clearance should pass brief details of their flight to Heathrow ATC, by telephone 020-8750 2578, and not to ATC by RTF.
f) Non-scheduled arrival flights by single-engined and light twin-engined fixed wing aircraft which are unable to accept an IFR clearance will be cleared to London Heathrow on a VFR or Special VFR clearance, at an altitude below 2500 FT (London Heathrow QNH) subject to the weather minima in (c). If the weather observations at London Heathrow are below either of these minima, clearance to enter the London CTR will not be granted.
g) It will remain the responsibility of the pilot to remain at all times in flight conditions which will enable him to determine his flight path and to keep clear of obstacles, and to ensure that he is able to comply with SERA.3105 Minimum Heights unless otherwise permitted by the CAA. Pilots must inform the Radar Controller if compliance with the above entails a change of heading or height.
h) VFR and Special VFR flights may be subject to delay when parts of the route are outside radar cover or when they cannot be fitted readily into gaps in the IFR traffic flow. Pilots should therefore always ensure that they have adequate fuel reserves and are able to divert to another aerodrome if necessary.

9 LOCAL FLYING ARRANGEMENTS AND SPECIAL ACCESS LANES FOR BROOKLANDS, DENHAM, FAIROAKS, LONDON HELIPORT, RAF NORTHOLT AND WHITE WALTHAM AERODROMES.

a) Flights within the Local Flying Areas (LFA) of aerodromes within, or adjacent to, the London CTR, may be made subject to certain conditions. Details of those for Denham, Fairoaks, London Heliport and White Waltham appear in the relevant AD sections, RAF Northolt can be found in the Military AIP. An additional local flying area is established for the unlicensed aerodrome at Brooklands and is detailed below.
b) Brooklands

i. Within a local flying area of 1 NM radius, centred on position 512103N 0002812W, but excluding that part to the east of the B374 road and a line bearing 180°T from the A245/B374 road junction and excluding the area south of the southern boundary of the London CTR, VFR flights may take place, subject to prior permission obtained from Brooklands Museum Trust Ltd.

1. Aircraft to remain below cloud with the surface in sight;
2. Maximum Altitude: 1500 FT QNH;
3. Prior permission **must** be obtained from Brooklands Museum Trust Ltd.

Note 1: *Pilots of aircraft flying in the local flying area are responsible for providing their own separation from other aircraft operating in the relevant airspace.*

Note 2: *In addition to paragraph (b), VFR flights must also comply with the VMC minima for Class D airspace detailed at ENR 1.2.*

Note 3: *Aircraft unable to operate VFR may operate Special VFR, subject to approval from Heathrow Radar, within the LFA subject to the conditions in paragraph (b) and the requirements for Special VFR flights detailed at ENR 1.2.*

Note 4: *The carriage of a Mode S Transponder within the LFA is encouraged, however there is currently no requirement for aircraft operating in the Brooklands LFA to comply with the requirements of the London CTR Mode S Transponder Mandatory Zone (TMZ). Pilots of suitably equipped aircraft shall utilise the transponder to the maximum serviceable extent with altitude information selected when fitted.*

10 VFR AND SPECIAL VFR HELICOPTER FLIGHTS IN THE LONDON CTR AND LONDON CITY CTR

a) General Arrangements

i. VFR and Special VFR helicopter flying in the London CTR is mostly constrained to flights at or below specified altitudes along defined routes, although off route clearances can normally be accommodated subject to ATC workload and other operational reasons which the pilot may not be aware of. These routes have been selected to avoid built up areas as much as possible. Details of the major landmarks on these routes, the altitudes and reporting points are listed at paragraph 12 and are illustrated at AD 2-EGLL-3-2. The precise routes are overprinted on the 1:50 000 chart entitled – Helicopter Routes in the London CTR & London City CTR. This chart may be obtained from NATS Ltd Chart Stockists - see www.nats.aero/ais for details.
ii. All VFR and Special VFR helicopter flying in the London CTR is subject to ATC clearance, except for the Local Flying Areas of Brooklands, Denham, Fairoaks and White Waltham where VFR flights may operate subject to agreed conditions which appear in the relevant AD sections.
iii. The following routes are not available to single-engined helicopters at night: H7, H9 (Hayes to Gutteridge) and H10 (Gutteridge to Kew Bridge).
iv. Pilots are reminded of the Restricted Areas within the London and London City CTRs as detailed in ENR 5.1.

1. EGR107
2. EGR156, EGR157, EGR158, EGR159
3. EGR160 – The Specified Area.

b) Procedures for flight along Helicopter Routes

i. Special VFR flights along Helicopter Routes in the London CTR and London City CTR are not to be operated unless helicopters can remain in a flight visibility of at least 1 KM. VFR flights shall operate in accordance with SERA 5001 or notified ORS4. Weather minima for crossing, taking-off from, or landing at London Heathrow are detailed at AD 2.20 paragraph 5.
ii. VFR and Special VFR helicopters must remain clear of cloud with the surface in sight.
iii. Altimeter setting will be London Heathrow QNH.
iv. Maximum route altitudes are shown in column 4 and 7 at paragraph 12. ATC will refer to these altitudes as ‘Standard Operating Altitudes’ when issuing clearances. Pilots may fly at altitudes below the maximum route altitude except for between Hanger Lane and Chiswick Bridge on H10 where the maximum published altitude must be flown accurately when operating SVFR. ATC may restrict aircraft to altitudes below the published route maximum as necessary to provide separation from other aircraft. Pilots may request alternative operating altitudes which may be approved subject to ATC considering other operational conditions.
v. Pilots should fly the precise routes as depicted on the 1: 50 000 Map entitled Helicopter Routes in the London CTR & London City CTR. 'Corner cutting' is to be avoided. In order to obtain sufficient lateral separation from opposite direction traffic, pilots may temporarily deviate as required.
vi. When flying along the River Thames within the Specified Area (EGR160), pilots should normally fly over that part of the river bed lying between high water marks, but not so near the banks as to become a nuisance on account of noise. When deviating from the river, in accordance with paragraph (v) above, single-engined helicopters must at all times be able to return to the river in the event of engine failure, in order to alight clear of the Specified Area.
vii. For the purposes of SERA.3105 Minimum Heights and SERA.5005(f) an aircraft operated on the notified helicopter routes is permitted to fly below 1000 FT above the highest obstacle within a radius of 600 M but no closer than 500 FT to any person, vessel, vehicle or structure.

c) Noise

i. On all notified helicopter routes, in order to minimize noise nuisance, pilots should maintain the maximum altitude compatible with their ATC clearance and with the prevailing cloud conditions.
ii. Pilots are requested wherever possible to avoid overflying hospitals, palaces, schools and prisons.

d) Air Traffic Control Clearance

i. Pilots must obtain a VFR or Special VFR clearance from Heathrow Radar (125.625 MHz). Heathrow Radar provides a service to transit aircraft operating in the London CTR and London City CTR/CTA. Pilots are requested to contact Heathrow Radar a minimum of three minutes before reaching the Zone Boundary, giving details of call sign, aircraft type, route, ETA at the CTR boundary, entry point and destination.
ii. ATC Clearances do not absolve the pilot of their responsibility to comply with the Rules of the Air and they should notify ATC if unable to accept a clearance.

e) Holding

i. VFR and Special VFR helicopters, particularly those using London Heathrow or the routes close to it, may be required to hold at any of the locations on the route, shown in column 1 at paragraph 12 and on the illustration at AD 2-EGLL-3-2 except on that portion of H4 that lies between Vauxhall and Westminster Bridges.

f) Communications

i. Helicopters using London Heliport via the Local Flying Area or any other routes that traverse the London Heliport ATZ, must be able to communicate with the Heliport (Battersea Tower 134.280 MHz).
ii. Helicopters flying along the routes in the London CTR and London City CTR must be able to communicate with Heathrow Radar. In the case of H9 and H10, aircraft must also be able to communicate with Northolt Approach Control (126.450 MHz), this also includes those aircraft operating off the helicopter routes within or in the vicinity of the Northolt RMA.
iii. Helicopters using London Heathrow must also be able to communicate with Heathrow Tower.

g) Loss of Communications Procedures

i. In the event of a communications failure in a helicopter operating in accordance with these procedures, the pilot is to adopt the procedure detailed at ENR 1.1 except as described below.
ii. If a VFR or Special VFR clearance has been received to transit the CTR along a Helicopter Route continue the flight in accordance with the clearance.
iii. Where an intermediate clearance limit has been given (or clearance issued for only a part of the requested transit), proceed to the specified clearance limit and hold for 3 minutes. Then proceed via the requested Helicopter Route at the published maximum altitude for the Route.
iv. If no onward clearance has been received before reaching, or when holding at, Sipson or Bedfont, **reverse track and leave the CTR** via H2-H10-Cookham if approaching **Sipson**, or **H9 if approaching Bedfont. Do not attempt to cross London Heathrow Airport.**
v. For helicopters overflying or landing at London Heathrow Airport, see EGLL AD 2.20 paragraph 5.

h) Separation between Special VFR helicopters

i. Separation may be agreed between Special VFR helicopters on the Helicopter Routes, on the basis that pilots of helicopters will be asked by ATC to maintain visual separation from other helicopter traffic, provided that:

1. the visibility at London Heathrow is 5 KM or more and the helicopters can operate clear of cloud and in sight of the surface and remain in a flight visibility of at least 5 KM;
2. there is agreement between the helicopter pilots concerned;
3. the current route structure, the altitudes applicable and communication procedures are adhered to;
4. appropriate traffic information is passed to the helicopter pilots. (Normally for this purpose it will only be necessary for ATC to pass general traffic information eg..... 'Two helicopters westbound along H10 at 1000 FT in the vicinity of Perivale - acknowledge.').

ii. If a pilot refuses or considers that the conditions are such that he is unable to maintain visual separation, he will be provided with the Special VFR separation requirements currently in force.

11 INNER AREA OF THE LONDON CTR

a) The Inner Area of the London CTR is that part of the London CTR from surface to altitude 2500 FT contained within the area enclosed by: BUR NDB – Iver RP – Helicopter Route H10 – Barnes RP – Helicopter Route H3 – Thorpe RP – Ascot Heliport – BUR NDB.
b) With the exception of those aircraft categories listed below, all VFR and Special VFR aircraft requesting to enter the Inner Area of the London CTR are subject to Prior Permission Required (PPR) from London Terminal Control, via the Senior Watch Assistant on 02380-401110:

i. Flight Priority Category A, B, C, D, E traffic who shall follow their own notification procedures where appropriate;
ii. Aircraft subject to an Airspace Coordination Notice (ACN) who shall follow the notification process detailed within the ACN;
iii. Aircraft subject to a Non-Standard Flight (NSF) who shall follow the notification process detailed within the NSF;
iv. Helicopters that remain on the published helicopter routes without landing or departing inside the Inner Area;

All other VFR and Special VFR aircraft are required to obtain PPR (by telephone) to enter the Inner Area of the London CTR on the same day at least 60 minutes before entry clearance is required. Approved aircraft will be given a PPR approval code to quote over the radio when requesting entry clearance from controllers.

c) Due to the intense Heathrow IFR operations and very high ATC workload within the Inner Area of the London CTR during the hours 0430-2300 local time, it is unlikely that aircraft will receive approval to operate inside the Inner Area within these times, unless there is a specific task that can only be completed within that airspace, e.g. helicopters accessing private landing sites.

d) The following procedures have been established to ensure safe integration with IFR traffic, avoid excessive airborne holding, and reduce delays to both Heathrow movements and helicopter operators wishing to use landing sites within the Inner Area of London CTR.

i. Inbound

1. Contact the London Terminal Control Senior Watch Assistant (02380-401110) on the day of operation at least 60 minutes prior to the estimated time of arrival;
2. Provide the name, latitude and longitude of the landing site, the requested routing, the estimated time of arrival and a contact telephone number;
3. Heathrow Tower Supervisor and Heathrow Radar will be consulted to determine the route that the pilot can expect (subject to the Heathrow runway configuration, meteorological conditions and the likelihood of being able to utilise reduced separation in the vicinity of the aerodrome);
4. If the safe integration of the inbound flight will cause delay to Heathrow traffic it will be subject to the equivalent Heathrow delay. The pilot will be contacted by telephone and advised the route that can be expected and, if appropriate, an amended ETA incorporating the Heathrow inbound delay;
5. The pilot must arrange the flight to arrive at the site within 10 minutes of the approved ETA. Failure to adhere to this time window may result in further delay or, in extreme circumstances, refusal of clearance. Upon establishing two-way communications the helicopter will be cleared to the landing site as soon as practicable commensurate with the safe integration with IFR traffic.

ii. Outbound

1. Prior to departing the site contact LTC SWA at least 60 minutes in advance of the estimated time of departure from the site to provide the name, latitude and longitude of the site, requested routing, planned ETD and a contact telephone number;
2. If the outbound flight will cause delay to Heathrow traffic it will be subject to the equivalent Heathrow delay. The pilot will be contacted by telephone and advised the route that can be expected and, if appropriate, an amended ETD incorporating the Heathrow outbound delay;
3. Within 10 minutes of the approved ETD, the pilot must contact ATC on the ground. If two way contact with ATC cannot be established on the ground either directly or via relay from other aircraft, the pilot must remain on the ground and contact London Terminal Control Group Supervisor Airports (02380-401106) to agree an exact departure time and initial altitude with the controllers concerned in order that safe integration with IFR traffic can be ensured.

Note: *If the intention is to be on the ground for less than 60 minutes, both the inbound and outbound arrangements may be agreed during the initial contact with LTC SWA.*

12 HELICOPTER ROUTES IN THE LONDON CTR AND LONDON CITY CTR

a) Abbreviations:

H — Holding Point ▲ — Compulsory Reporting Point ∆ — On Request Reporting Point

Map references are to the 1: 50 000 Ordnance Survey Map of Great Britain

b) The precise routes which must be adhered to are portrayed on the 1: 50 000 Map entitled Helicopter Routes in the London CTR & London City CTR. An indication of the routes network is shown on the illustration at AD 2-EGLL-3-2.
c) Pilots are required to be at or below the lower altitudes on arrival at the reporting point at which the lower altitude applies.
d) On all notified helicopter routes within the London CTR and London City CTR and for the purposes of SERA.3105 Minimum Heights and SERA.5005(f) Visual Flight Rules an aircraft operated on the notified helicopter routes is permitted to fly below 1000 FT above the highest obstacle within a radius of 600 M but no closer than 500 FT to any person, vessel, vehicle or structure.
e) In support of (d) suggested minimum altitudes detailed in column 5 at paragraph 12 are given for aircraft operating on the centreline of the routes, however pilots remain responsible for obstacle clearance and are encouraged to operate as high an altitude allowable on the routes, subject to any overriding ATC Clearance. Those minimum altitudes detailed in column 5 at paragraph 12 are based on the VFR Obstacles List produced by AIS and should be used for guidance only as they do not take into account the surrounding ground elevation nor new/temporary obstacles not captured within the Obstacle List. Pilots operating on H4 should be cognisant that when operating outside of the high water marks greater minimum altitudes than those listed in column 5 at paragraph 12 may be required to ensure compliance with the 500 FT rule.

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H2							
∆ Iver	TQ 035 826 513157N 0003031W	Delaford Park	1000 FT	700 FT	H	1000 FT	
∆ West Drayton	TQ 052 784 512939N 0002909W	M4 Motorway Crossing of River Colne (1.25 NM west of Airport Spur)					
▲ Airport Spur	TQ 075 786 512944N 0002715W	Junction of M4 Motorway and Motorway Spur to London Heathrow			H		Note 1

Note 1: *Unless otherwise cleared by ATC, pilots are not to fly south of the M4 between West Drayton and Airport Spur.*

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H3							
▲ Bagshot	SU 908 619 512057N 0004157W	Intersection of London Control Zone/M3 Motorway	2000 FT	850 FT	H	1500 FT	Note 1
∆ M3 Junction 3	SU 919 626 512121.06N 0004050.40W	M3 Motorway Junction 3 (VRP)		750 FT		1000 FT	
∆ Barrowhills	SU 990 662 512312.42N 0003440.56W	Kitsmead Lane Bridge over M3	1500 FT	700 FT			
∆ Thorpe	TQ 018 679 512402N 0003216W	M3 Motorway south of Thorpe Green (M25 intersection)		600 FT	H		
∆ Chertsey	TQ 059 668 512327.17N 0002845.36W	Chertsey Road roundabout	1200 FT	550 FT			
▲ Sunbury Lock	TQ 112 683 512409N 0002416W	Midway between Sunbury Lock and the middle of Knight reservoir			H		Note 1
∆ Richmond	TQ 184 725 512622.45N 0001749.84W	Golf Course at western edge of Richmond Park	1500 FT	650 FT			
∆ Roehampton	TQ 215 746 512728.04N 0001506.76W	Golf course east of Roehampton Gate, H7/ H3 join		600 FT			Note 1
▲ Barnes	TQ 234 765 512827N 0001325W	River Thames at Barn Elms Park and Craven Cottage Football Ground		1000 FT			Note 2
▲ London Heliport	TQ 266 762 512812N 0001046W	London Heliport			H		Note 1 Note 2

Note 1: *When Heathrow Runways 09L/09R are in use, the Route H3 between Sunbury Lock and Roehampton is not available to Special VFR helicopters. These closures do not apply to Flight Priority Category A, B & C helicopters (defined in CAP 493 Manual of Air Traffic Services). Delays may be experienced for VFR helicopters due to slow climbing departures from Heathrow. Helicopter pilots are recommended to obtain Heathrow runway information on the ATIS frequency 128.080 MHz before contacting Heathrow Radar on 125.625 MHz, or London Heliport on 134.280 MHz.*

Note 2: *Caution - large number of tall structures above 500 FT lie within 600 M of the high water marks of the River Thames. Pilots are reminded that aircraft operated on the notified helicopter routes are not permitted to fly closer than 500 FT to any person, vessel, vehicle or structure.*

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H4							
▲ Isle-of-Dogs	TQ 381 781 512902N 0000042W	Specified Area Boundary crossing River Thames - north abeam Cutty Sark	2000 FT	1000 FT		1500 FT	Note 2 Note 5
∆ London Bridge	TQ 330 805 513027N 0000504W	London Bridge (road bridge)					Note 3 Note 4
▲ Vauxhall Bridge	TQ 302 782 512915N 0000736W	CTR Boundary crossing River Thames					
▲ Chelsea Bridge	TQ 286 778 512902N 0000900W	Chelsea Road Bridge	1500 FT				
▲ London Heliport	TQ 266 762 512812N 0001046W	London Heliport			H		Note 1 Note 5

Note 1: *There are no Holding Points on H4 east of London Heliport. The nearest Holding Point is at Greenwich Marshes, outside the 'Specified Area' (EGR160).*

Note 2: *Cable car crosses River Thames at 513009N 0000042E approximately 1 NM east/downstream of Isle of Dogs. Supporting towers (289 FT and 285 FT AMSL) equipped with aviation warning lights; cable between towers unlit.*

Note 3: *Ferris Wheel: The London Eye Ferris Wheel (464 FT AMSL) lies within the boundary of H4 at Jubilee Gardens (513012N 0000711W) between London Bridge and Vauxhall Bridge.*

Note 4: *No helicopters to hold on that portion of H4 that lies between Vauxhall and Westminster Bridges. This does not apply to traffic operating under Flight Priority Category A or B.*

Note 5: *Caution - large number of tall structures above 500 FT lie within 600 M of the high water marks of the River Thames. Pilots are reminded that aircraft operated on the notified helicopter routes are not permitted to fly closer than 500 FT to any person, vessel, vehicle or structure.*

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H5							
▲ Northwood	TQ 071 906 513612N 0002719W	Zone Boundary midway between Harefield and Northwood	2000 FT	800 FT	H	1500 FT	Note 1
∆ Uxbridge Common	TQ 062 855 513332N 0002813W	Roundabout on A40 road north of Uxbridge Common			H		

Note 1: *Pilots may be required to communicate with Northolt Approach (126.450 MHz).*

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H7							
▲ Banstead	TQ 243 614 512014N 0001301W	Golf course northwest of town	2000 FT	800 FT	H	1500 FT	
∆ Morden	TQ 229 672 512327N 0001407W	Cemetery northeast of Gas Works		650 FT			
∆ Caesar's Camp	TQ 220 711 512532N 0001446W	Golf course southwest corner of Wimbledon Common			H	1000 FT	

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H7							
∆ Roehampton	TQ 215 746 512728.04N 0001506.76W	Golf course east of Roehampton Gate, H7/ H3 join	1500 FT	600 FT			
▲ Barnes	TQ 234 765 512827N 0001325W	River Thames at Barn Elms Park and Craven Cottage Football Ground		1000 FT			Note 1
▲ London Heliport	TQ 266 762 512812N 0001046W	London Heliport			H		Note 1

Note 1: *Caution - large number of tall structures above 500 FT lie within 600 M of the high water marks of the River Thames. Pilots are reminded that aircraft operated on the notified helicopter routes are not permitted to fly closer than 500 FT to any person, vessel, vehicle or structure.*

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H9							
▲ Oxshott West	TQ 101 609 512014N 0002512W	Intersection of London Control Zone/A3 Trunk Road - north abeam large supermarket	2000 FT	700 FT	H	1500 FT	Note 4
∆ Esher Common	TQ 136 621 512051N 0002210W	A3 Trunk Road West of A3/A244 intersection	1500 FT				
OR							
▲ Oxshott East	TQ 160 611 512014N 0002006W	Prince's Coverts	2000 FT	700 FT	H	1500 FT	Note 4
∆ Arbrook	TQ 149 624 512058N 0002100W	Intersection of A3 Trunk Road / Railway Line					
∆ Esher Common	TQ 136 621 512051N 0002210W	A3 Trunk Road West of A3/A244 intersection	1500 FT				
THEN							
∆ Hersham	TQ 121 654 512236.71N 0002323.38W	Railway Station	1200 FT	600 FT		1000 FT	
▲ Sunbury Lock	TQ 112 683 512409N 0002416W	Midway between Sunbury Lock and the middle of Knight reservoir	800 FT		H	800 FT	
∆ Feltham	TQ 095 726 512630N 0002533W	Open space south of Railway Line			H		
∆ Bedfont	TQ 088 745 512732N 0002610W	East of Terminal Four, South of the A30	1000 FT		H	1000 FT	Note 3 Note 4
HEATHROW CROSSING							Note 5
∆ Sipson	TQ 076 772 512900N 0002706W	Hotel Complex northeast of the junction Motorway Spur and Main Road A4 at north perimeter of London Heathrow			H		

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H9							
▲ Airport Spur	TQ 075 786 512944N 0002715W	Junction of M4 Motorway and Motorway Spur to London Heathrow		650 FT	H		Note 1
∆ Hayes	TQ 082 804 513042N 0002636W	Stockley Park Business Centre	2000 FT	700 FT	H	1500 FT	
∆ Gutteridge	TQ 097 845 513254N 0002507W	A40, south of Northolt Aerodrome Runway Intersection		800 FT	H		Note 2
▲ Northwood	TQ 071 906 513612N 0002719W	Zone Boundary midway between Harefield and Northwood			H		

Note 1: *Between Northwood and Airport Spur, pilots may be required to communicate with Northolt Approach (126.450 MHz).*

Note 2: *The holding manoeuvre is to be carried out to the south of the Northolt Aerodrome Boundary.*

Note 3: *Helicopters will be held at Bedfont during daylight hours when the reported weather conditions are equal to or better than 5 KM visibility and 1500 FT reported cloud ceiling and will be held at Feltham at all other times.*

Note 4: *Due to environmental restrictions, H9 south of London Heathrow Airport is not normally available to SVFR helicopter traffic between 2100-0800 (2000-0700) when London Heathrow Runways 09L/09R are in use.*

Note 5: *Refer to EGLL AD 2.20 LOCAL AERODROME REGULATIONS - 5 Helicopter Operations.*

Warning: Runway 27L missed approach procedure requires a left turn at 1000 FT AAL. Pilots holding at Bedfont must remain in visual contact with aircraft on final approach to Runway 27L.

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H10							
		CTR Boundary	2000 FT	600 FT		1500 FT	
▲ Cookham	SU 898 857 513345N 0004222W	Bridge over River Thames north of Cookham		800 FT	H		
∆ Pumpkin Hill	SU 943 845 513310.04N 0003831.21W	Golf Course west of Farnham Common					
∆ Stoke Poges	SU 990 835 513233.01N 0003423.36W	War memorial in Stoke Poges Village	1500 FT	700 FT			
∆ Iver	TQ 035 826 513157N 0003031W	Delaford Park			H		Note 2
∆ Uxbridge Common	TQ 062 855 513332N 0002813W	Roundabout on A40 road north of Uxbridge Common			H		
∆ Gutteridge	TQ 097 845 513254N 0002507W	A40, south of Northolt Aerodrome Runway Intersection			H	1200 FT	Note 3 Note 4
∆ Target	TQ 125 839 513234.71N 0002240.08W	Target Roundabout A40		650 FT			
∆ Hanger Lane	TQ 184 826 513149.24N 0001737.66W	Hanger Lane Junction Station					Note 1 Note 5

Significant Points	National Grid & Lat/Long	Description of Reference	Maximum Altitude VFR	Suggested Minimum Altitude	Holding Point	Maximum Altitude SVFR	Remarks
1	2	3	4	5	6	7	8
H10							
				1200 FT			
∆ Brentford	TQ 186 791 512951N 0001731W	Gunnersbury Park north of Chiswick Fly-over	1200 FT	800 FT	H	800 FT	Note 1
∆ Kew Bridge	TQ 190 778 512914N 0001716W	Bridge across River Thames at northeast corner of Gardens and Common	1000 FT		H		Note 1 Note 4
∆ Chiswick Bridge	TQ 202 763 512822.96N 0001611.64W	Chiswick Bridge		700 FT			
∆ Hammersmith Bridge	TQ 229 781 512918.39N 0001349.01W	Hammersmith Bridge	1500 FT	550 FT		1000 FT	
▲Barnes	TQ 234 765 512827N 0001325W	River Thames at Barn Elms Park and Craven Cottage Football Ground		1000 FT			Note 6
▲ London Heliport	TQ 266 762 512812N 0001046W	London Heliport			H		Note 6

Note 1: *Between Hanger Lane and Chiswick Bridge, pilots must fly at the published maximum altitude when operating SVFR.*

Note 2: *Between Iver and Hanger Lane, pilots may be required to communicate with Northolt Approach (126.450 MHz).*

Note 3: *The holding manoeuvre is to be carried out to the south of the Northolt Aerodrome Boundary.*

Note 4: *When Heathrow Runways 09L/09R are in use, Route H10 between Gutteridge and Kew Bridge is subject to delays due to slow climbing departures from Heathrow.*
Helicopter pilots are recommended to obtain Heathrow runway information on the ATIS frequency 128.080 MHz before contacting Heathrow Radar on 125.625 MHz, or London Heliport on 134.280 MHz.

Note 5: *Between Target and Brentford the route alignment turns from the A40 to the A406 at the Hanger Lane intersection (Hanger Lane). Pilots should ensure correct visual identification of the turn point due to the interaction with Heathrow Runway 27R final approach track.*

Note 6: *Caution - large number of tall structures above 500 FT lie within 600 M of the high water marks of the River Thames. Pilots are reminded that aircraft operated on the notified helicopter routes are not permitted to fly closer than 500 FT to any person, vessel, vehicle or structure.*

13 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

Note: *Refer also to VRPs in use at London City.*

14 LONDON CTR TRANSPONDER MANDATORY ZONE (TMZ)

a) The London CTR is notified as a Mode S Elementary Transponder Mandatory Zone (TMZ) as detailed at GEN 1.5, paragraph 5.3.
b) The London CTR TMZ has the same vertical and lateral dimensions as the London CTR, see EGLL AD 2.17.
c) TMZ exceptions are detailed in GEN 1.5 paragraph 5.3.4, AD-2 EGLD, AD-2 EGTF, AD-2 EGLM and for Brooklands see EGLL AD 2.22 paragraph 9.

15 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the London CTR within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Thames Director frequency, 132.700 MHz, are encouraged to select SSR code 0012.

513630N 0001545E - 514111N 0001345W -
514027N 0003627W - 514015N 0005348W -
513444N 0005508W - 512335N 0005516W -
511422N 0003506W - 511957N 0001917E -
513630N 0001545E.

b) Selection of 0012 does not imply the receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the London CTR at all times.
c) Whilst squawking 0012, pilots should be aware that Thames Director may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 0012 shall be deselected.

EGLL AD 2.23 ADDITIONAL INFORMATION

1 MODE S BAROMETRIC PRESSURE SETTING DATA

a) London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

2 TIME BASED SEPARATION (TBS) FOR FINAL APPROACH

a) Time based separation minima are in permanent use for wake turbulence separation in place of UK fixed distance minima. These are based on the RECAT EU PWS minima.
b) In stronger headwinds, a moderate reduction in separation distances between lead and follower aircraft may be observed in comparison to RECAT EU PWS distanced based wake turbulence minima.
c) Requests for RNAV (GNSS) approaches may be refused by Heathrow Director to ensure runway efficiency is maintained.

3 AERODROME SAFETY REPORTING

a) Aircraft operators are required to share with Heathrow any occurrence reports for reportable incidents which occur on the ground at Heathrow, or during the initial (take-off) or final (approach and landing) phases of flight to or from Heathrow.
b) Copies of Air Safety Reports or Mandatory Occurrence Reports filed by aircraft operators must be sent to the Aerodrome Safety and Assurance team at airside_safety@heathrow.com. Heathrow also encourages voluntary safety reports and observations as these may help to improve safety. Any such reports or observations should also be sent to the aforementioned address.

EGLL AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGLL-2-1
AIRCRAFT GROUND MOVEMENT/ALL TAXIWAYS CHART - ICAO
AD 2.EGLL-2-2
AERODROME CHART A380 GROUND MOVEMENT - ICAO
AD 2.EGLL-2-3
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 5 CHART - ICAO
AD 2.EGLL-2-4
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 4 CHART - ICAO
AD 2.EGLL-2-5
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 3 CHART - ICAO
AD 2.EGLL-2-6
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 1 and 2 CHART - ICAO
AD 2.EGLL-2-7
AIRCRAFT GROUND MOVEMENT/REMOTE DE-ICING AREAS LOCATION CHART - ICAO
AD 2.EGLL-2-8
GROUND MOVEMENT CHART - HOLDING AREAS for RUNWAY 27R - ICAO
AD 2.EGLL-2-9
GROUND MOVEMENT CHART - HOLDING AREAS for RUNWAY 27L - ICAO
AD 2.EGLL-2-10
GROUND MOVEMENT CHART - HOLDING AREAS for RUNWAY 09L - ICAO
AD 2.EGLL-2-11
GROUND MOVEMENT CHART - HOLDING AREAS for RUNWAY 09R - ICAO
AD 2.EGLL-2-12
LONDON CTR LOCAL FLYING AND ENTRY/EXIT PROCEDURES
AD 2.EGLL-3-1
HELICOPTER ROUTES in the LONDON CTR and LONDON/CITY CTR
AD 2.EGLL-3-2
HELICOPTER CROSSING OPERATIONS

AD 2.EGLL-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGLL-5-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART TEXT
AD 2.EGLL-5-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09R/L RWY 27R/L CPT 5J 4K 3F 3G (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGLL-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09R/L RWY 27R/L MODMI 1J 1K MAXIT 1F 1G (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGLL-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09R/L RWY 27R/L BPK 6J 5K 7F 7G (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGLL-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09R/L RWY 27R/L ULTIB 1J 1K UMLAT 1F 1G (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGLL-6-4
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09R/L RWY 27R/L DET 1J 1K 2F 2G (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGLL-6-5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 09R/L RWY 27R/L GASGU 2J 2K GOGSI 2F 2G (RNAV SUBSTITUTION ONLY) - ICAO
AD 2.EGLL-6-6
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) OTMET 1H ROXOG 1H - ICAO
AD 2.EGLL-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ALESO 1H LAM 1X TANET 1Z - ICAO
AD 2.EGLL-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) OCK 1Z - ICAO
AD 2.EGLL-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) NUGRA 2H LAM 1Z - ICAO
AD 2.EGLL-7-4
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) HON 2H - ICAO
AD 2.EGLL-7-5
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BARMI 1H LOGAN 2H - ICAO
AD 2.EGLL-7-6
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) TOBID 1X - ICAO
AD 2.EGLL-7-7
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) HAZEL 1H - ICAO
AD 2.EGLL-7-8
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BIG 1Z LAM 1Y - ICAO
AD 2.EGLL-7-9
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) FITBO 2H - ICAO
AD 2.EGLL-7-10
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) SIRIC 1H - ICAO
AD 2.EGLL-7-11
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) SIRIC 1Z - ICAO
AD 2.EGLL-7-12
STANDARD INSTRUMENT ARRIVAL CODING TABLES OTMET 1H ROXOG 1H ALESO 1H LAM 1X
AD 2.EGLL-7-13
STANDARD INSTRUMENT ARRIVAL CODING TABLES TANET 1Z OCK 1Z NUGRA 2H LAM 1Z
AD 2.EGLL-7-14
STANDARD INSTRUMENT ARRIVAL CODING TABLES HON 2H BARMI 1H LOGAN 2H TOBID 1X
AD 2.EGLL-7-15
STANDARD INSTRUMENT ARRIVAL CODING TABLES HAZEL 1H BIG 1Z LAM 1Y FITBO 2H
AD 2.EGLL-7-16
STANDARD INSTRUMENT ARRIVAL CODING TABLES SIRIC 1H SIRIC 1Z
AD 2.EGLL-7-17
RNAV HOLD CODING TABLES BIG BNN BRASO FITBO HON LAM LOGAN
AD 2.EGLL-7-18
RNAV HOLD CODING TABLES OCK ORZEB SABER TIGER WEZKO
AD 2.EGLL-7-19
INITIAL APPROACH PROCEDURES ILS RWY 09L/R via BIG and OCK (RNAV SUBSTITUTION ONLY)
AD 2.EGLL-7-20
INITIAL APPROACH PROCEDURES ILS RWY 09L/R Without Radar Control via BNN and LAM
AD 2.EGLL-7-21
INITIAL APPROACH PROCEDURES ILS RWY 27L/R Without Radar Control via BIG

AD 2.EGLL-7-22
INITIAL APPROACH PROCEDURES ILS RWY 27L/R via OCK (RNAV SUBSTITUTION ONLY)
AD 2.EGLL-7-23
INITIAL APPROACH PROCEDURES ILS RWY 27L/R Without Radar Control via BNN and LAM
AD 2.EGLL-7-24
INITIAL APPROACH PROCEDURES ILS RWY 09L/R via CHT and EPM (RNAV SUBSTITUTION ONLY)
AD 2.EGLL-7-25
INITIAL APPROACH PROCEDURES ILS RWY 27L/R via CHT and EPM (RNAV SUBSTITUTION ONLY)
AD 2.EGLL-7-26
INSTRUMENT APPROACH CHART ILS/DME I-AA RWY 09L - ICAO
AD 2.EGLL-8-1
INSTRUMENT APPROACH CHART LOC/DME I-AA RWY 09L - ICAO
AD 2.EGLL-8-2
INSTRUMENT APPROACH CHART RNP RWY 09L - ICAO
AD 2.EGLL-8-3
INSTRUMENT APPROACH CHART ILS/DME I-BB RWY 09R - ICAO
AD 2.EGLL-8-4
INSTRUMENT APPROACH CHART LOC/DME I-BB RWY 09R - ICAO
AD 2.EGLL-8-5
INSTRUMENT APPROACH CHART RNP RWY 09R - ICAO
AD 2.EGLL-8-6
INSTRUMENT APPROACH CHART ILS/DME I-LL RWY 27L - ICAO
AD 2.EGLL-8-7
INSTRUMENT APPROACH CHART LOC/DME I-LL RWY 27L - ICAO
AD 2.EGLL-8-8
INSTRUMENT APPROACH CHART RNP RWY 27L - ICAO
AD 2.EGLL-8-9
INSTRUMENT APPROACH CHART ILS/DME I-RR RWY 27R - ICAO
AD 2.EGLL-8-10
INSTRUMENT APPROACH CHART LOC/DME I-RR RWY 27R - ICAO
AD 2.EGLL-8-11
INSTRUMENT APPROACH CHART RNP RWY 27R - ICAO
AD 2.EGLL-8-12
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09L/R and 27L/R
AD 2.EGLL-8-13

EGLL AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

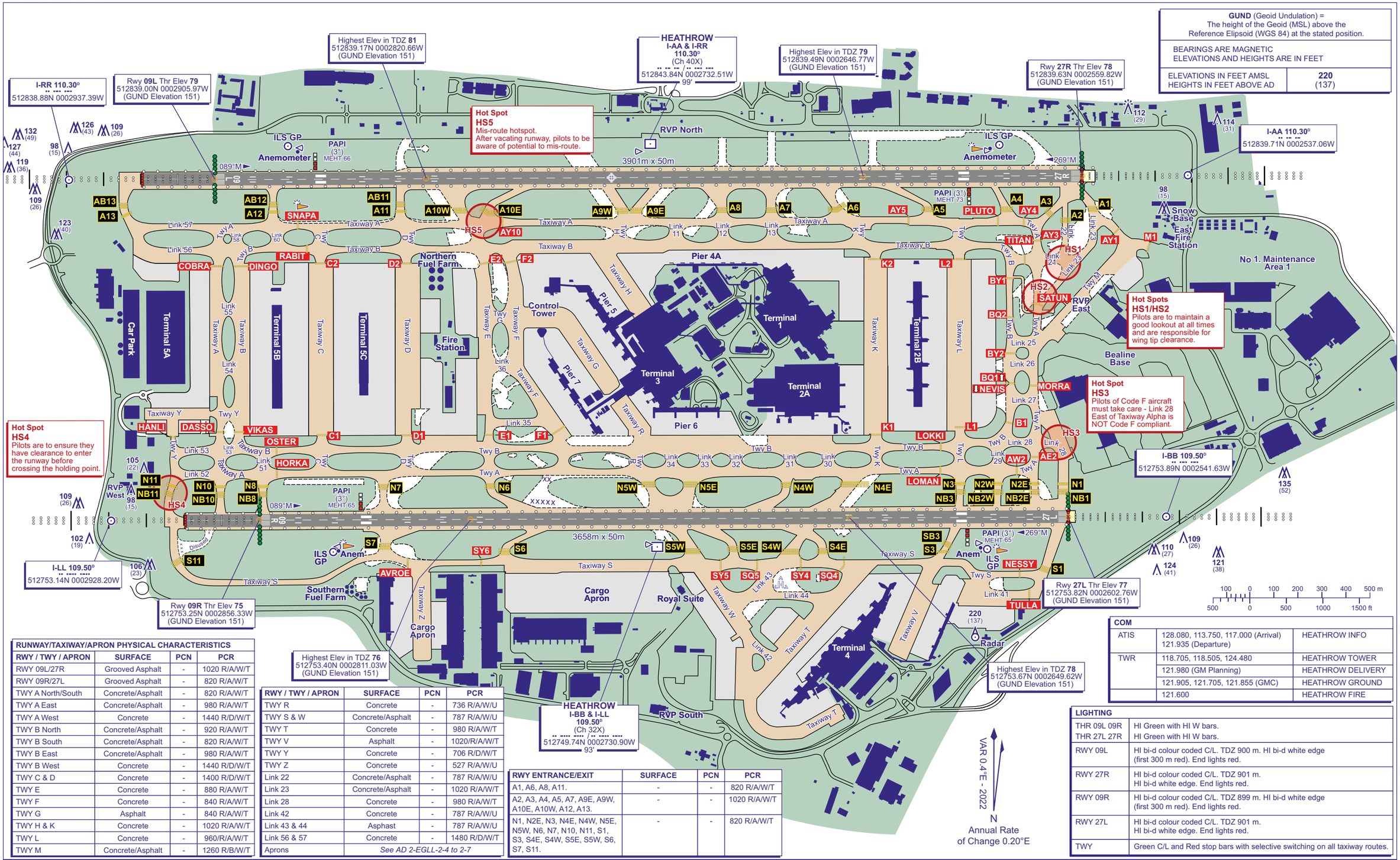
INTENTIONALLY BLANK

AERODROME CHART - ICAO

ARP 512839N 0002741W

AD ELEV 83FT

LONDON HEATHROW
EGLL



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	PCN	PCR
RWY 09L/27R	Grooved Asphalt	-	1020 R/A/W/T
RWY 09R/27L	Grooved Asphalt	-	820 R/A/W/T
TWY A North/South	Concrete/Asphalt	-	820 R/A/W/T
TWY A East	Concrete/Asphalt	-	980 R/A/W/T
TWY A West	Concrete	-	1440 R/D/W/T
TWY B North	Concrete/Asphalt	-	920 R/A/W/T
TWY B South	Concrete/Asphalt	-	820 R/A/W/T
TWY B East	Concrete/Asphalt	-	980 R/A/W/T
TWY B West	Concrete	-	1440 R/D/W/T
TWY C & D	Concrete	-	1400 R/D/W/T
TWY E	Concrete	-	880 R/A/W/T
TWY F	Concrete	-	840 R/A/W/T
TWY G	Asphalt	-	840 R/A/W/T
TWY H & K	Concrete	-	1020 R/A/W/T
TWY L	Concrete	-	960/R/A/W/T
TWY M	Concrete/Asphalt	-	1260 R/B/W/T

TWY R	Concrete	-	736 R/A/W/U
TWY S & W	Concrete/Asphalt	-	787 R/A/W/U
TWY T	Concrete	-	980 R/A/W/T
TWY V	Asphalt	-	1020/R/A/W/T
TWY Y	Concrete	-	706 R/D/W/T
TWY Z	Concrete	-	527 R/A/W/U
Link 22	Concrete/Asphalt	-	787 R/A/W/U
Link 23	Concrete/Asphalt	-	1020 R/A/W/T
Link 28	Concrete	-	980 R/A/W/T
Link 42	Concrete	-	787 R/A/W/U
Link 43 & 44	Asphast	-	787 R/A/W/U
Link 56 & 57	Concrete	-	1480 R/D/W/T
Aprons	*See AD 2-EGLL-2-4 to 2-7*		

RWY ENTRANCE/EXIT	SURFACE	PCN	PCR
A1, A6, A8, A11.	-	-	820 R/A/W/T
A2, A3, A4, A5, A7, A9E, A9W, A10E, A10W, A12, A13.	-	-	1020 R/A/W/T
N1, N2E, N3, N4E, N4W, N5E, N5W, N6, N7, N10, N11, S1, S3, S4E, S4W, S5E, S5W, S6, S7, S11.	-	-	820 R/A/W/T

COM		
ATIS	128.080, 113.750, 117.000 (Arrival) 121.935 (Departure)	HEATHROW INFO
TWR	118.705, 118.505, 124.480	HEATHROW TOWER
	121.980 (GM Planning)	HEATHROW DELIVERY
	121.905, 121.705, 121.855 (GMC)	HEATHROW GROUND
	121.600	HEATHROW FIRE

LIGHTING	
THR 09L 09R THR 27L 27R	HI Green with HI W bars. HI Green with HI W bars.
RWY 09L	HI bi-d colour coded C/L. TDZ 900 m. HI bi-d white edge (first 300 m red). End lights red.
RWY 27R	HI bi-d colour coded C/L. TDZ 901 m. HI bi-d white edge. End lights red.
RWY 09R	HI bi-d colour coded C/L. TDZ 899 m. HI bi-d white edge (first 300 m red). End lights red.
RWY 27L	HI bi-d colour coded C/L. TDZ 901 m. HI bi-d white edge. End lights red.
TWY	Green C/L and Red stop bars with selective switching on all taxiway routes.

CHANGE (11/25): HIGHEST ELEV IN TDZ 27L COORD.

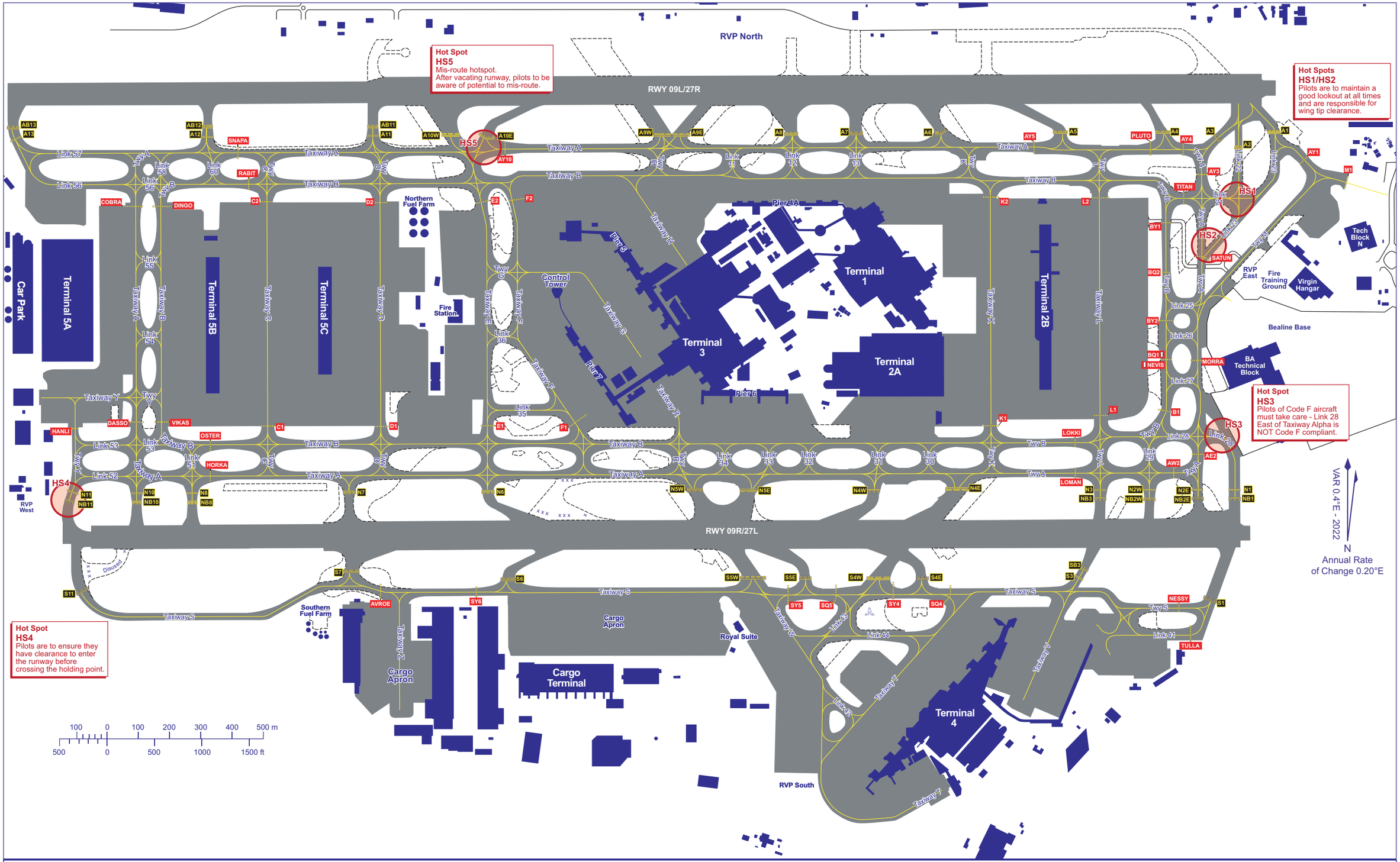
AERO INFO DATE 04 AUG 25

AIRCRAFT GROUND MOVEMENT/ALL TAXIWAYS CHART - ICAO

ARP 512839N 0002741W

AD ELEV 83FT

LONDON HEATHROW
EGLL



CHANGE (6/24): DISUSED EDITORIAL.

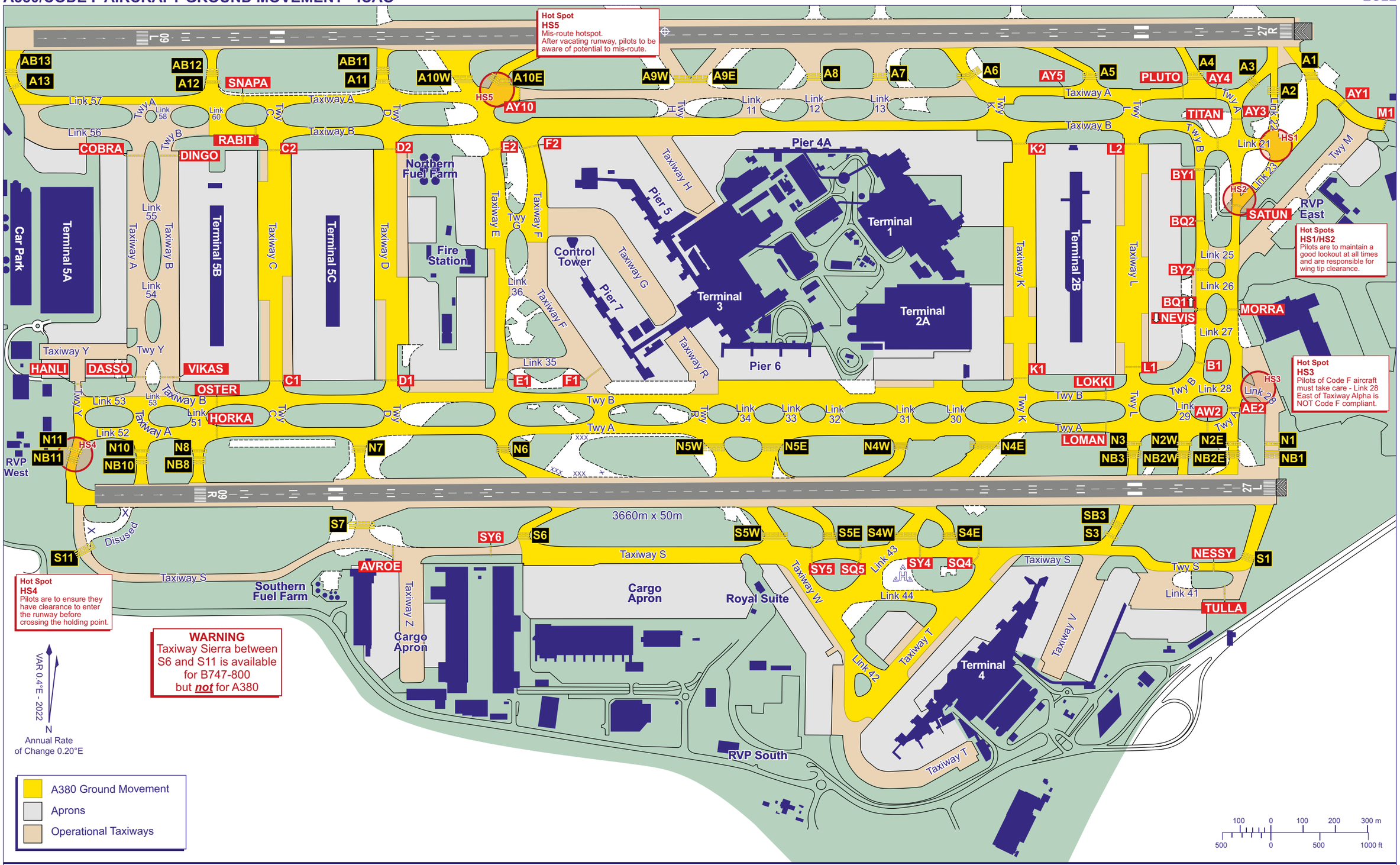
AERO INFO DATE 05 APR 24

AERODROME CHART
A380/CODE F AIRCRAFT GROUND MOVEMENT - ICAO

ARP 512839N 0002741W

AD ELEV 83FT

LONDON HEATHROW
EGLL



CHANGE (9/25): EDITORIAL.

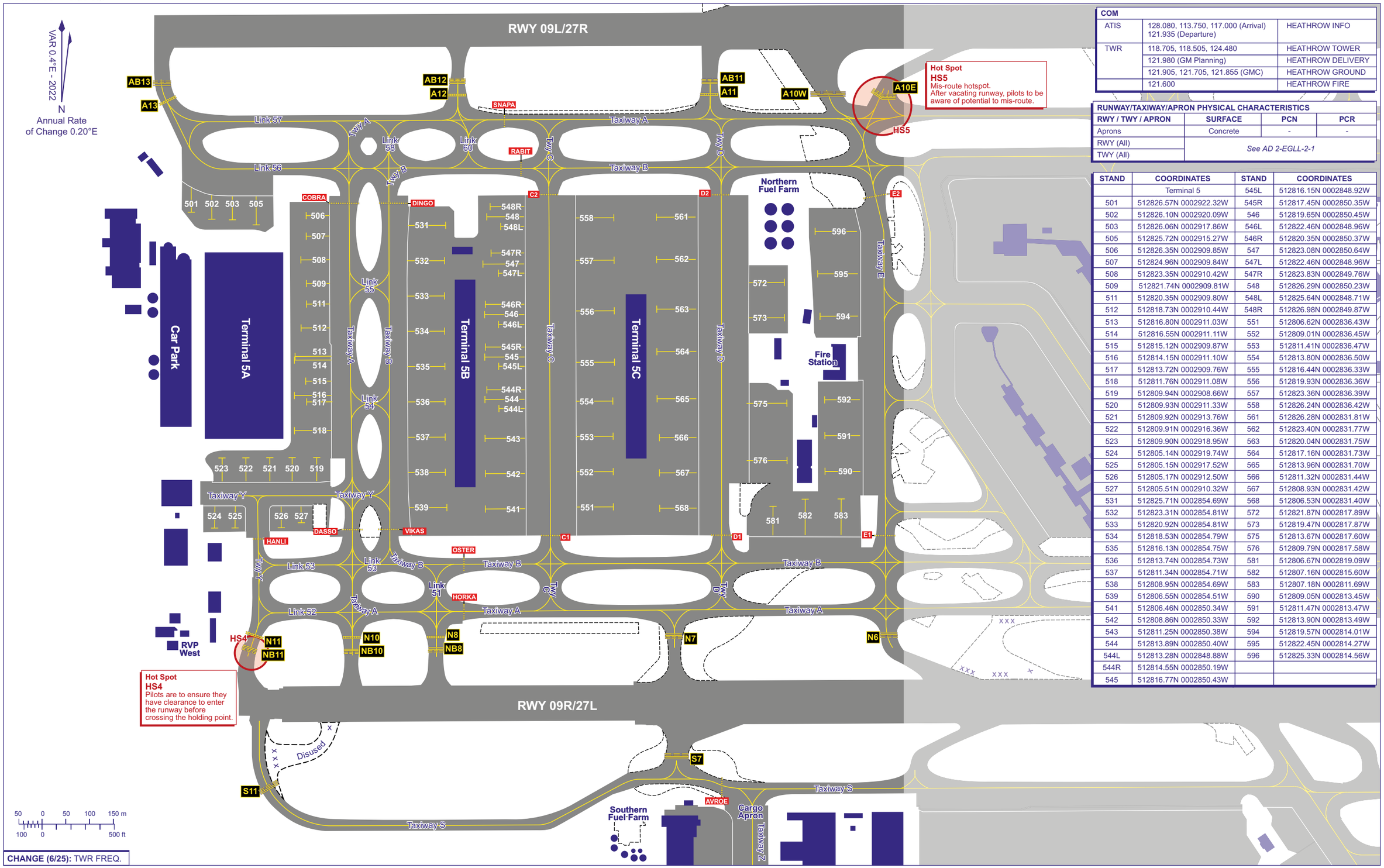
AERO INFO DATE 05 JUN 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 5 CHART - ICAO

ARP 512839N 0002741W

AD ELEV 83FT

LONDON HEATHROW
EGLL



COM		
ATIS	128.080, 113.750, 117.000 (Arrival) 121.935 (Departure)	HEATHROW INFO
TWR	118.705, 118.505, 124.480	HEATHROW TOWER
	121.980 (GM Planning)	HEATHROW DELIVERY
	121.905, 121.705, 121.855 (GMC)	HEATHROW GROUND
	121.600	HEATHROW FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	PCN	PCR
Aprons	Concrete	-	-
RWY (All)	*See AD 2-EGLL-2-1*		
TWY (All)			

STAND	COORDINATES	STAND	COORDINATES
	Terminal 5	545L	512816.15N 0002848.92W
501	512826.57N 0002922.32W	545R	512817.45N 0002850.35W
502	512826.10N 0002920.09W	546	512819.65N 0002850.45W
503	512826.06N 0002917.86W	546L	512822.46N 0002848.96W
505	512825.72N 0002915.27W	546R	512820.35N 0002850.37W
506	512826.35N 0002909.85W	547	512823.08N 0002850.64W
507	512824.96N 0002909.84W	547L	512822.46N 0002848.96W
508	512823.35N 0002910.42W	547R	512823.83N 0002849.76W
509	512821.74N 0002909.81W	548	512826.29N 0002850.23W
511	512820.35N 0002909.80W	548L	512825.64N 0002848.71W
512	512818.73N 0002910.44W	548R	512826.98N 0002849.87W
513	512816.80N 0002911.03W	551	512806.62N 0002836.43W
514	512816.55N 0002911.11W	552	512809.01N 0002836.45W
515	512815.12N 0002909.87W	553	512811.41N 0002836.47W
516	512814.15N 0002911.10W	554	512813.80N 0002836.50W
517	512813.72N 0002909.76W	555	512816.44N 0002836.33W
518	512811.76N 0002911.08W	556	512819.93N 0002836.36W
519	512809.94N 0002908.66W	557	512823.36N 0002836.39W
520	512809.93N 0002911.33W	558	512826.24N 0002836.42W
521	512809.92N 0002913.76W	561	512826.28N 0002831.81W
522	512809.91N 0002916.36W	562	512823.40N 0002831.77W
523	512809.90N 0002918.95W	563	512820.04N 0002831.75W
524	512805.14N 0002919.74W	564	512817.16N 0002831.73W
525	512805.15N 0002917.52W	565	512813.96N 0002831.70W
526	512805.17N 0002912.50W	566	512811.32N 0002831.44W
527	512805.51N 0002910.32W	567	512808.93N 0002831.42W
531	512825.71N 0002854.69W	568	512806.53N 0002831.40W
532	512823.31N 0002854.81W	572	512821.87N 0002817.89W
533	512820.92N 0002854.81W	573	512819.47N 0002817.87W
534	512818.53N 0002854.79W	575	512813.67N 0002817.60W
535	512816.13N 0002854.75W	576	512809.79N 0002817.58W
536	512813.74N 0002854.73W	581	512806.67N 0002819.09W
537	512811.34N 0002854.71W	582	512807.16N 0002815.60W
538	512808.95N 0002854.69W	583	512807.18N 0002811.69W
539	512806.55N 0002854.51W	590	512809.05N 0002813.45W
541	512806.46N 0002850.34W	591	512811.47N 0002813.47W
542	512808.86N 0002850.33W	592	512813.90N 0002813.49W
543	512811.25N 0002850.38W	594	512819.57N 0002814.01W
544	512813.89N 0002850.40W	595	512822.45N 0002814.27W
544L	512813.28N 0002848.88W	596	512825.33N 0002814.56W
544R	512814.55N 0002850.19W		
545	512816.77N 0002850.43W		

CHANGE (6/25): TWR FREQ.

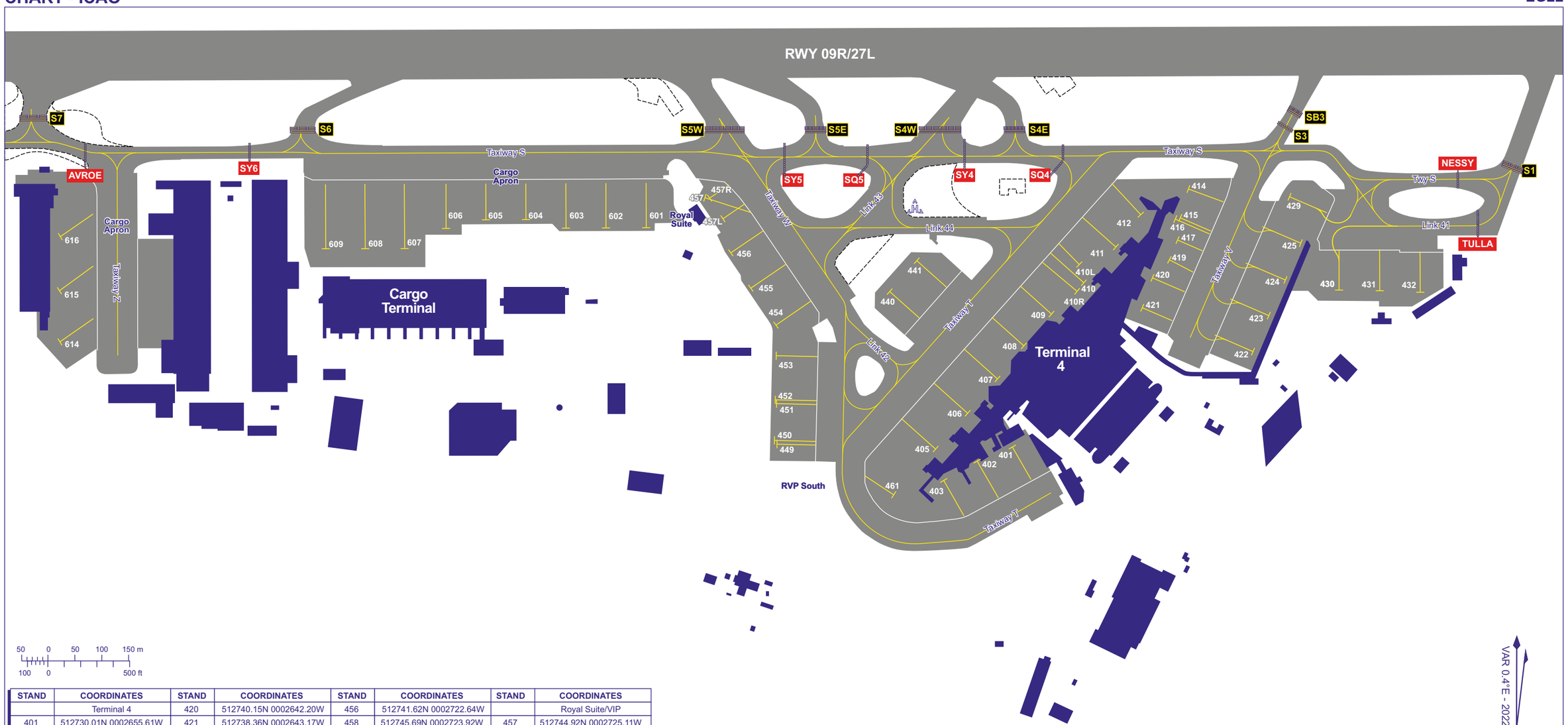
AERO INFO DATE 27 MAR 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 4 CHART - ICAO

ARP 512839N 0002741W

AD ELEV 83FT

LONDON HEATHROW
EGLL



50 0 50 100 150 m
100 0 500 ft

STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES
	Terminal 4	420	512740.15N 0002642.20W	456	512741.62N 0002722.64W		Royal Suite/VIP
401	512730.01N 0002655.61W	421	512738.36N 0002643.17W	458	512745.69N 0002723.92W	457	512744.92N 0002725.11W
402	512729.16N 0002658.98W	422	512735.74N 0002632.54W	461	512727.15N 0002706.98W	457L	512743.67N 0002723.40W
403	512728.01N 0002702.19W	423	512737.90N 0002631.03W			457R	512744.90N 0002724.67W
405	512729.89N 0002702.97W	424	512740.03N 0002629.44W		Cargo Apron		
406	512732.03N 0002659.91W	425	512742.24N 0002627.97W	601	512743.12N 0002730.74W	Hel aim pt	512744.27N 0002704.97W
407	512734.09N 0002657.04W	429	512745.02N 0002629.06W	602	512743.11N 0002734.60W		
408	512736.07N 0002654.52W	430	512739.43N 0002624.30W	603	512743.09N 0002738.43W		
409	512737.98N 0002651.87W	431	512739.39N 0002620.41W	604	512743.60N 0002742.27W		
410	512739.85N 0002648.78W	432	512739.31N 0002616.52W	605	512743.58N 0002746.11W		
410L	512740.95N 0002649.21W	440	512739.37N 0002707.48W	606	512743.06N 0002749.93W		
410R	512739.34N 0002649.41W	441	512741.19N 0002704.87W	607	512741.85N 0002753.90W		
411	512742.00N 0002645.70W	449	512730.17N 0002718.18W	608	512741.84N 0002757.68W		
412	512743.94N 0002643.33W	450	512730.39N 0002718.42W	609	512741.83N 0002801.46W		
414	512745.47N 0002638.75W	451	512732.60N 0002718.22W	614	512736.24N 0002826.93W		
415	512743.75N 0002639.52W	452	512732.82N 0002718.35W	615	512739.30N 0002827.00W		
416	512743.67N 0002640.01W	453	512735.47N 0002718.26W	616	512742.54N 0002826.93W		
417	512742.42N 0002639.79W	454	512737.30N 0002718.30W				
419	512741.23N 0002640.56W	455	512739.50N 0002720.71W				

VAR 0.4°E - 2022
N
Annual Rate of Change 0.20°E

COM		
ATIS	128.080, 113.750, 117.000 (Arrival) 121.935 (Departure)	HEATHROW INFO
TWR	118.705, 118.505, 124.480	HEATHROW TOWER
	121.980 (GM Planning)	HEATHROW DELIVERY
	121.905, 121.705, 121.855 (GMC)	HEATHROW GROUND
	121.600	HEATHROW FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	PCN	PCR
Aprons	Concrete	-	-
RWY (All)	*See AD 2-EGLL-2-1*		
TWY (All)			

CHANGE (6/25): TWR FREQ. STANDS 611-613 REMOVED.

AERO INFO DATE 27 MAR 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 3 CHART - ICAO

ARP 512839N 0002741W

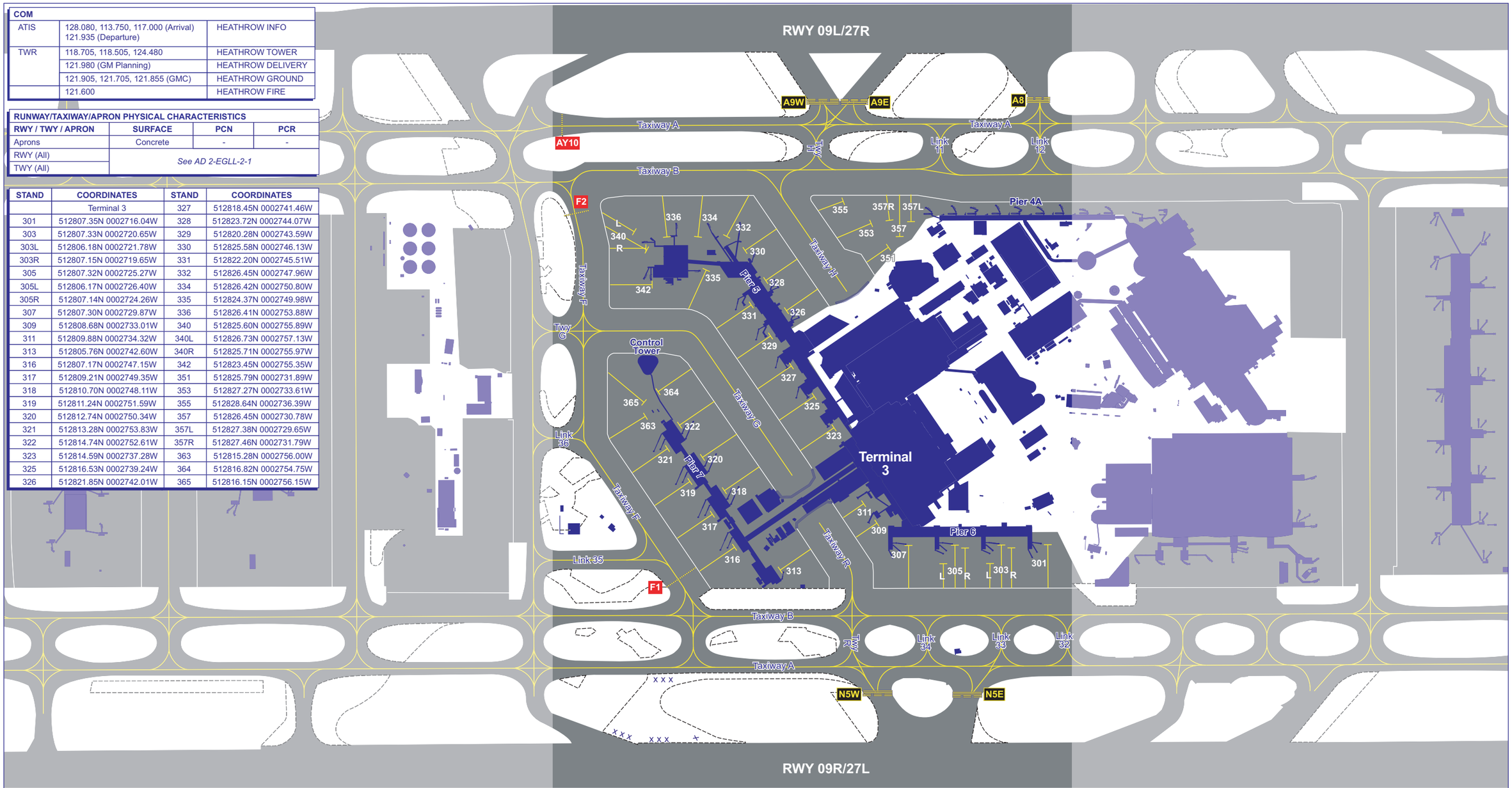
AD ELEV 83FT

LONDON HEATHROW
EGLL

COM		
ATIS	128.080, 113.750, 117.000 (Arrival) 121.935 (Departure)	HEATHROW INFO
TWR	118.705, 118.505, 124.480	HEATHROW TOWER
	121.980 (GM Planning)	HEATHROW DELIVERY
	121.905, 121.705, 121.855 (GMC)	HEATHROW GROUND
	121.600	HEATHROW FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	**SURFACE**	**PCN**	**PCR**
Aprons	Concrete	-	-
RWY (All)	*See AD 2-EGLL-2-1*		
TWY (All)			

STAND	COORDINATES	STAND	COORDINATES
	Terminal 3	327	512818.45N 0002741.46W
301	512807.35N 0002716.04W	328	512823.72N 0002744.07W
303	512807.33N 0002720.65W	329	512820.28N 0002743.59W
303L	512806.18N 0002721.78W	330	512825.58N 0002746.13W
303R	512807.15N 0002719.65W	331	512822.20N 0002745.51W
305	512807.32N 0002725.27W	332	512826.45N 0002747.96W
305L	512806.17N 0002726.40W	334	512826.42N 0002750.80W
305R	512807.14N 0002724.26W	335	512824.37N 0002749.98W
307	512807.30N 0002729.87W	336	512826.41N 0002753.88W
309	512808.68N 0002733.01W	340	512825.60N 0002755.89W
311	512809.88N 0002734.32W	340L	512826.73N 0002757.13W
313	512805.76N 0002742.60W	340R	512825.71N 0002755.97W
316	512807.17N 0002747.15W	342	512823.45N 0002755.35W
317	512809.21N 0002749.35W	351	512825.79N 0002731.89W
318	512810.70N 0002748.11W	353	512827.27N 0002733.61W
319	512811.24N 0002751.59W	355	512828.64N 0002736.39W
320	512812.74N 0002750.34W	357	512826.45N 0002730.78W
321	512813.28N 0002753.83W	357L	512827.38N 0002729.65W
322	512814.74N 0002752.61W	357R	512827.46N 0002731.79W
323	512814.59N 0002737.28W	363	512815.28N 0002756.00W
325	512816.53N 0002739.24W	364	512816.82N 0002754.75W
326	512821.85N 0002742.01W	365	512816.15N 0002756.15W



CHANGE (6/25): TWR FREQ.

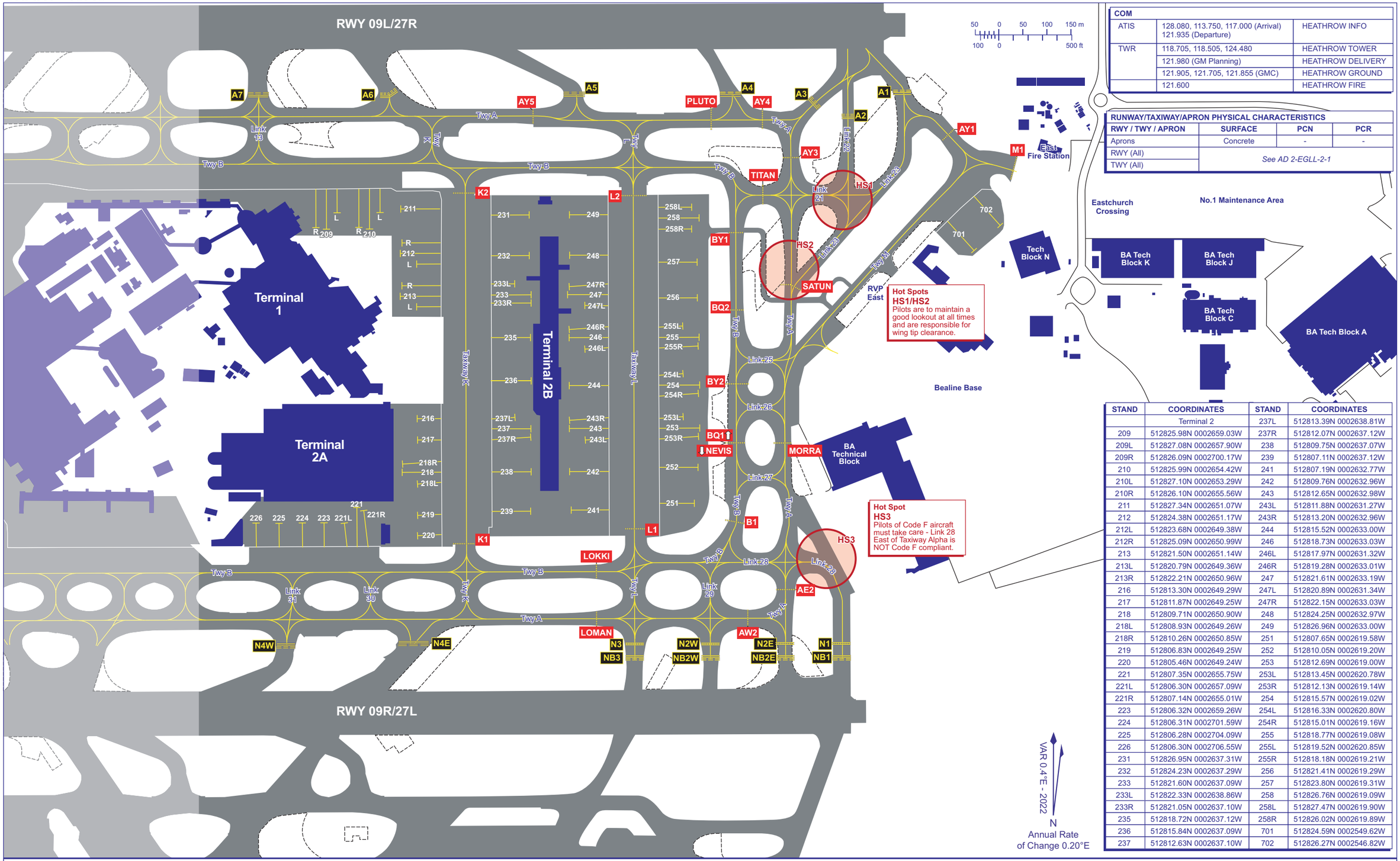
AERO INFO DATE 27 MAR 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING - TERMINAL 1 & 2
CHART - ICAO

ARP 512839N 0002741W

AD ELEV 83FT

LONDON HEATHROW
EGLL



COM		
ATIS	128.080, 113.750, 117.000 (Arrival) 121.935 (Departure)	HEATHROW INFO
TWR	118.705, 118.505, 124.480	HEATHROW TOWER
	121.980 (GM Planning)	HEATHROW DELIVERY
	121.905, 121.705, 121.855 (GMC)	HEATHROW GROUND
	121.600	HEATHROW FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	PCN	PCR
Aprons	Concrete	-	-
RWY (All)	*See AD 2-EGLL-2-1*		
TWY (All)			

STAND	COORDINATES	STAND	COORDINATES
	Terminal 2	237L	512813.39N 0002638.81W
209	512825.98N 0002659.03W	237R	512812.07N 0002637.12W
209L	512827.08N 0002657.90W	238	512809.75N 0002637.07W
209R	512826.09N 0002700.17W	239	512807.11N 0002637.12W
210	512825.99N 0002654.42W	241	512807.19N 0002632.77W
210L	512827.10N 0002653.29W	242	512809.76N 0002632.96W
210R	512826.10N 0002655.56W	243	512812.65N 0002632.98W
211	512827.34N 0002651.07W	243L	512811.88N 0002631.27W
212	512824.38N 0002651.17W	243R	512813.20N 0002632.96W
212L	512823.68N 0002649.38W	244	512815.52N 0002633.00W
212R	512825.09N 0002650.99W	246	512818.73N 0002633.03W
213	512821.50N 0002651.14W	246L	512817.97N 0002631.32W
213L	512820.79N 0002649.36W	246R	512819.28N 0002633.01W
213R	512822.21N 0002650.96W	247	512821.61N 0002633.19W
216	512813.30N 0002649.29W	247L	512820.89N 0002631.34W
217	512811.87N 0002649.25W	247R	512822.15N 0002633.03W
218	512809.71N 0002650.90W	248	512824.25N 0002632.97W
218L	512808.93N 0002649.26W	249	512826.96N 0002633.00W
218R	512810.26N 0002650.85W	251	512807.65N 0002619.58W
219	512806.83N 0002649.25W	252	512810.05N 0002619.20W
220	512805.46N 0002649.24W	253	512812.69N 0002619.00W
221	512807.35N 0002655.75W	253L	512813.45N 0002620.78W
221L	512806.30N 0002657.09W	253R	512812.13N 0002619.14W
221R	512807.14N 0002655.01W	254	512815.57N 0002619.02W
223	512806.32N 0002659.26W	254L	512816.33N 0002620.80W
224	512806.31N 0002701.59W	254R	512815.01N 0002619.16W
225	512806.28N 0002704.09W	255	512818.77N 0002619.08W
226	512806.30N 0002706.55W	255L	512819.52N 0002620.85W
231	512826.95N 0002637.31W	255R	512818.18N 0002619.21W
232	512824.23N 0002637.29W	256	512821.41N 0002619.29W
233	512821.60N 0002637.09W	257	512823.80N 0002619.31W
233L	512822.33N 0002638.86W	258	512826.76N 0002619.09W
233R	512821.05N 0002637.10W	258L	512827.47N 0002619.90W
235	512818.72N 0002637.12W	258R	512826.02N 0002619.89W
236	512815.84N 0002637.09W	701	512824.59N 0002549.62W
237	512812.63N 0002637.10W	702	512826.27N 0002546.82W

CHANGE (6/25): TWR FREQ.

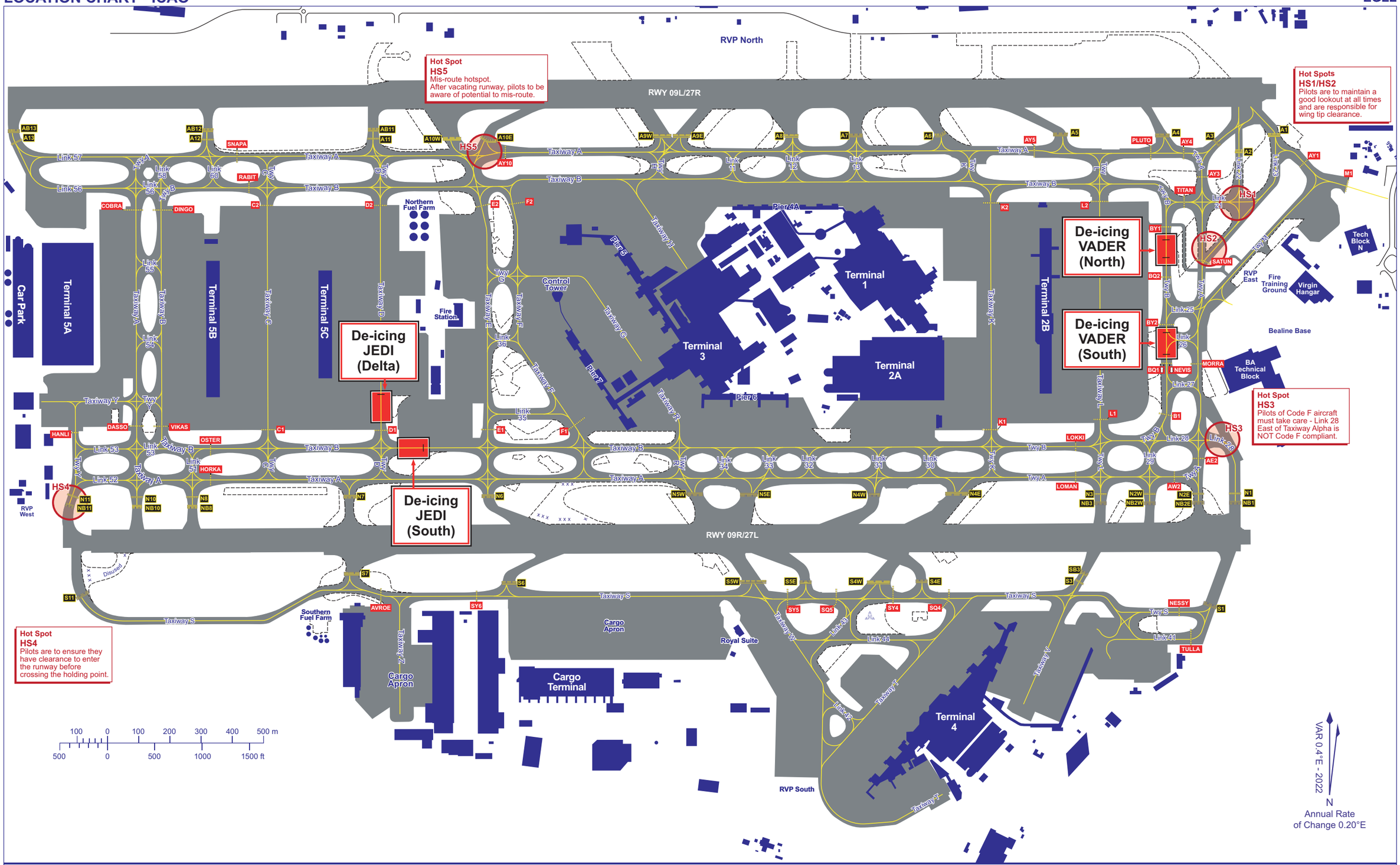
AERO INFO DATE 27 MAR 25

AIRCRAFT GROUND MOVEMENT - REMOTE DE-ICING AREAS LOCATION CHART - ICAO

ARP 512839N 0002741W

AD ELEV 83FT

LONDON HEATHROW
EGLL



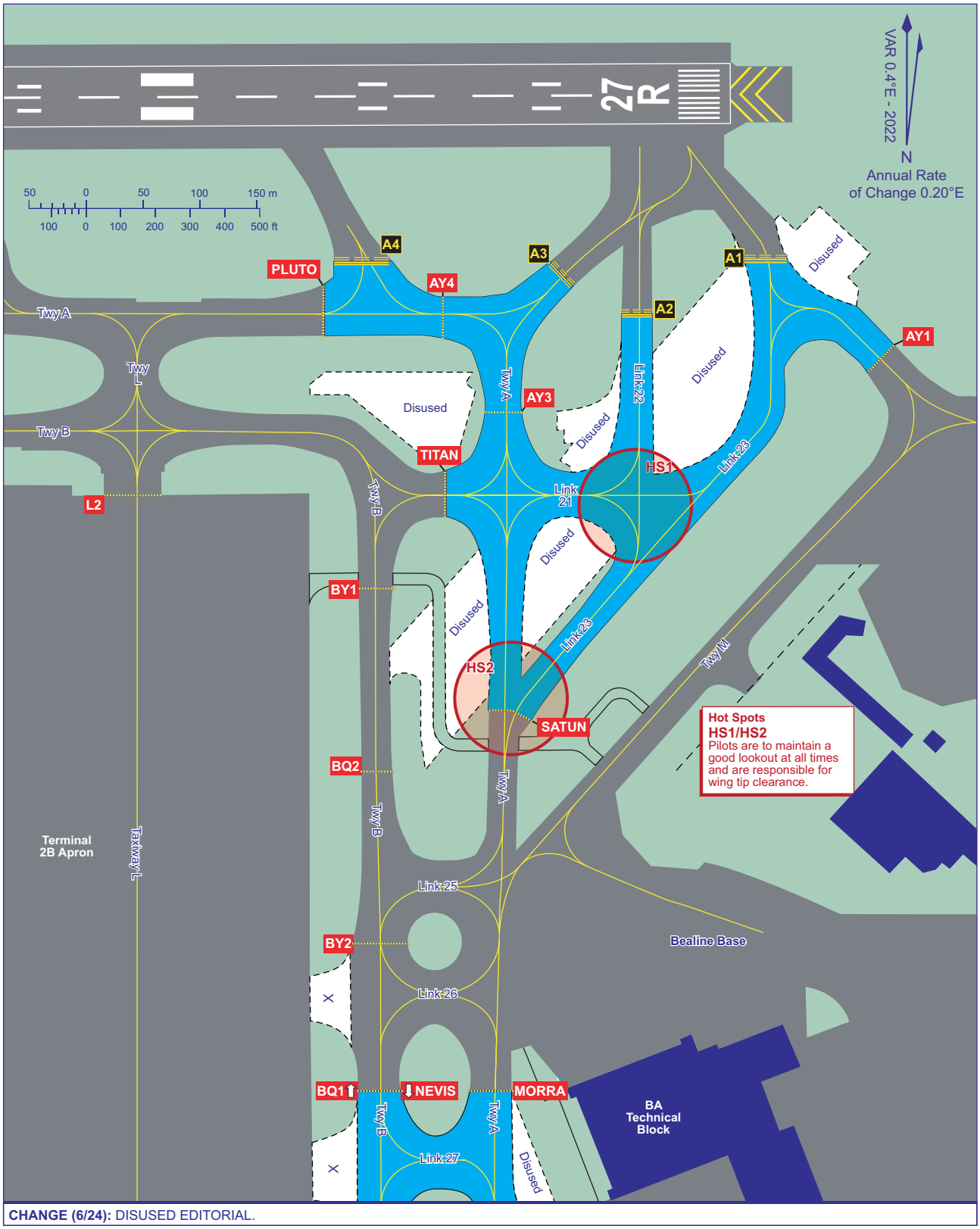
CHANGE (6/24): DISUSED EDITORIAL.

AERO INFO DATE 09 APR 24

GROUND MOVEMENT CHART - ICAO

HOLDING AREAS FOR RUNWAY 27R

LONDON HEATHROW
EGLL



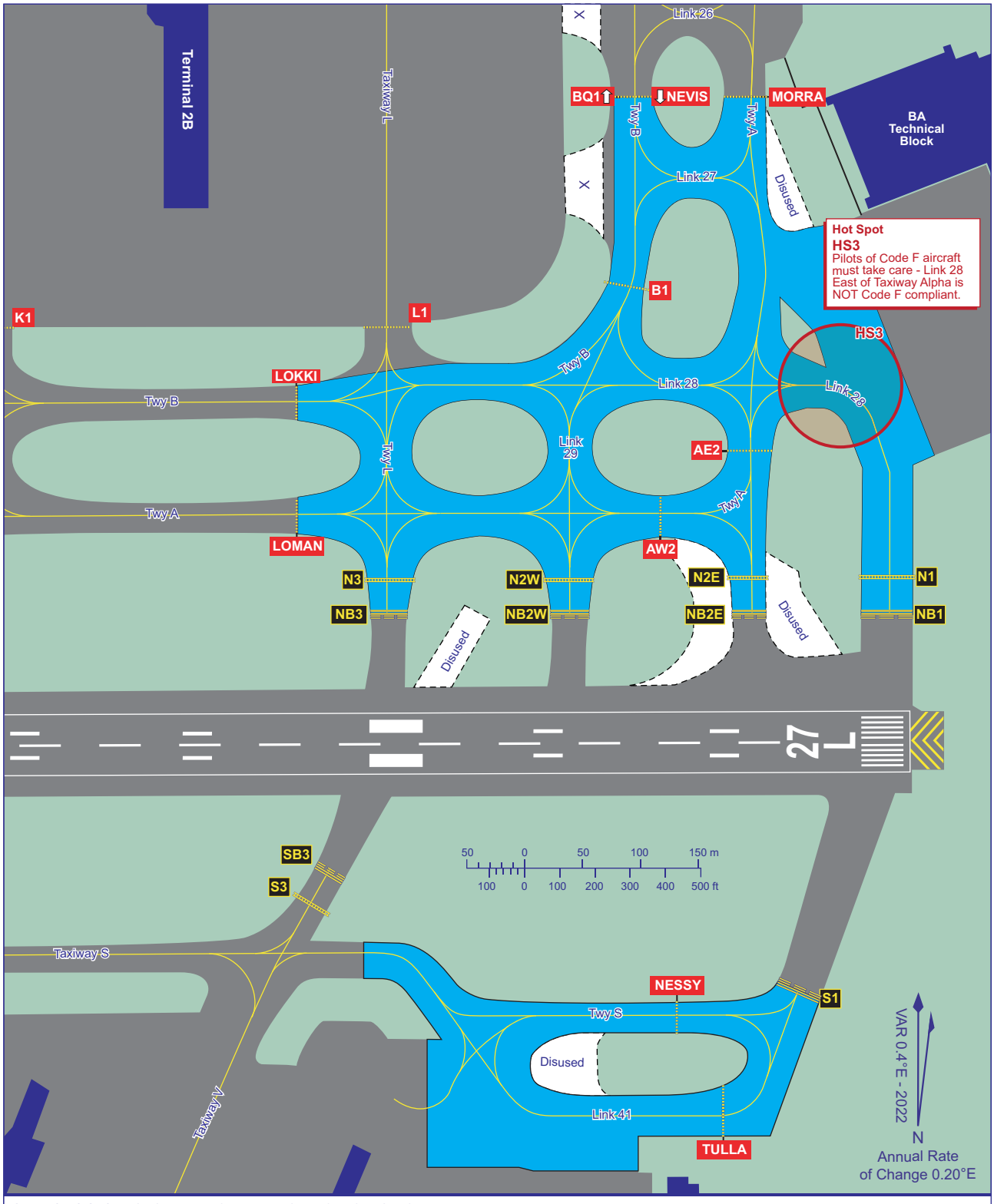
CHANGE (6/24): DISUSED EDITORIAL.

AERO INFO DATE 05 APR 24

GROUND MOVEMENT CHART - ICAO

HOLDING AREAS FOR RUNWAY 27L

LONDON HEATHROW
EGLL



CHANGE (6/24): DISUSED EDITORIAL. MAG INFO. HOLDS MOVED.

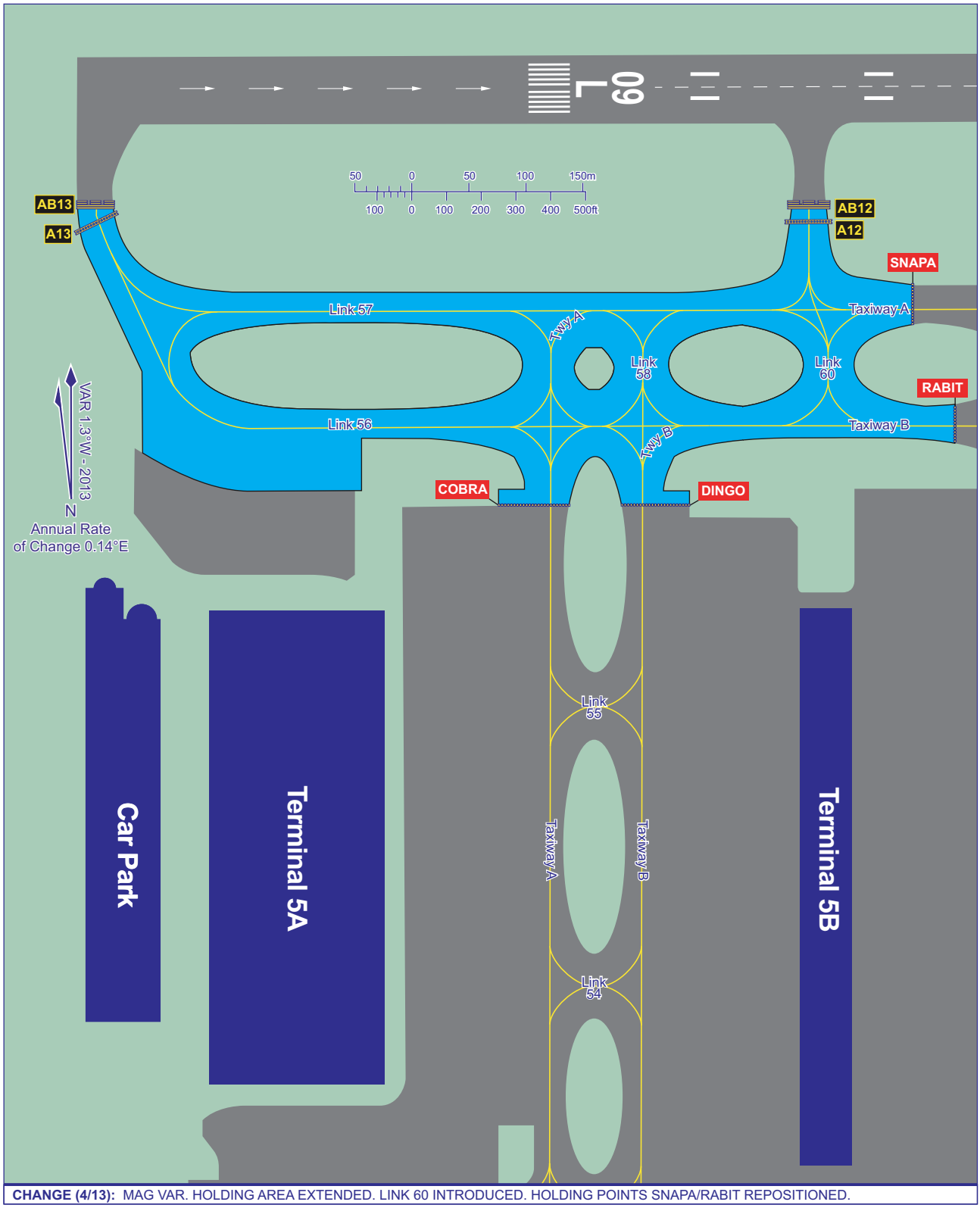
AERO INFO DATE 10 APR 24

AD 2-EGLL-2-10

GROUND MOVEMENT CHART - ICAO

HOLDING AREAS FOR RUNWAY 09L

LONDON HEATHROW
EGLL



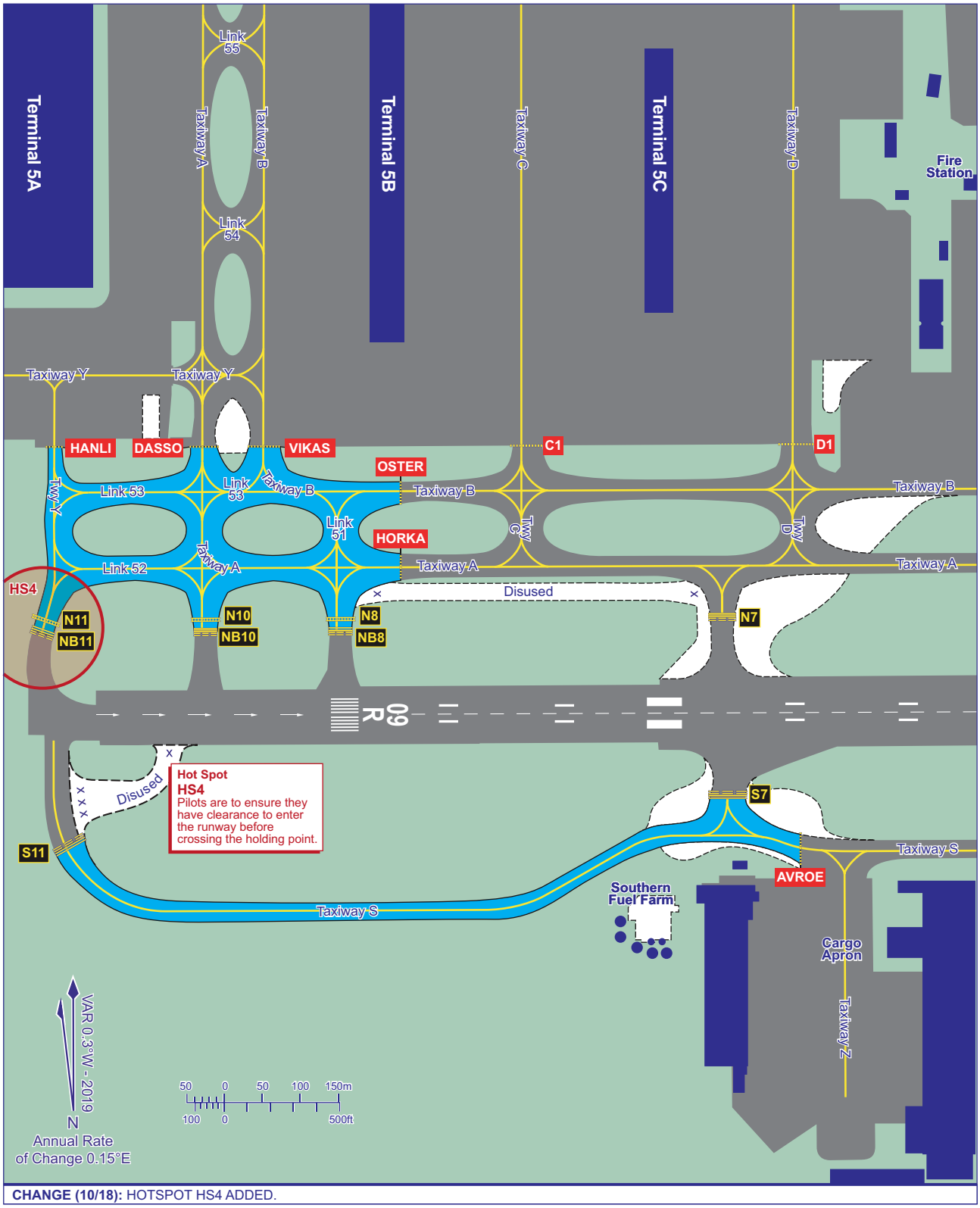
CHANGE (4/13): MAG VAR. HOLDING AREA EXTENDED. LINK 60 INTRODUCED. HOLDING POINTS SNAPA/RABIT REPOSITIONED.

AERO INFO DATE 23 JAN 13

GROUND MOVEMENT CHART - ICAO

HOLDING AREAS FOR RUNWAY 09R

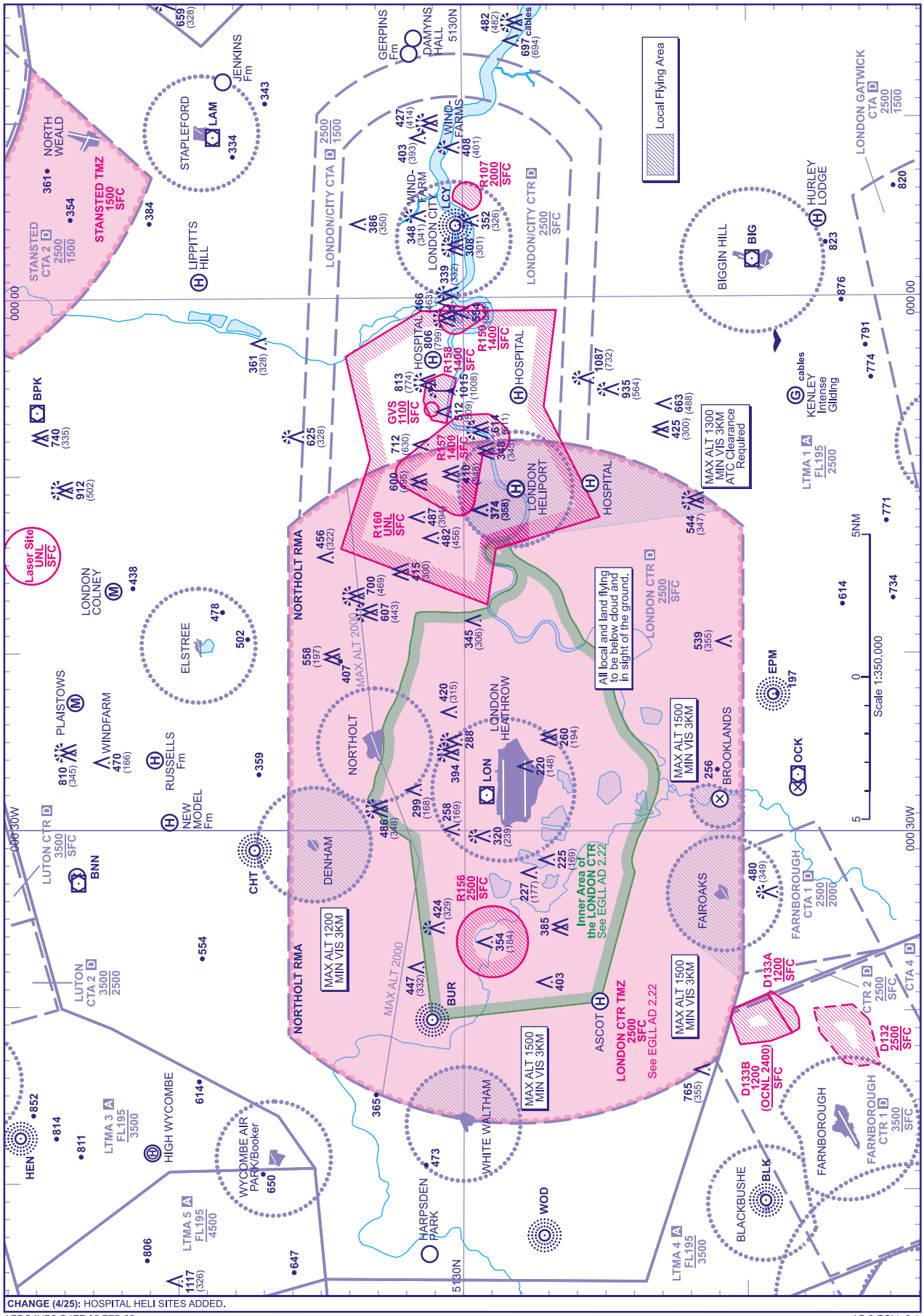
LONDON HEATHROW
EGLL



CHANGE (10/18): HOTSPOT HS4 ADDED.

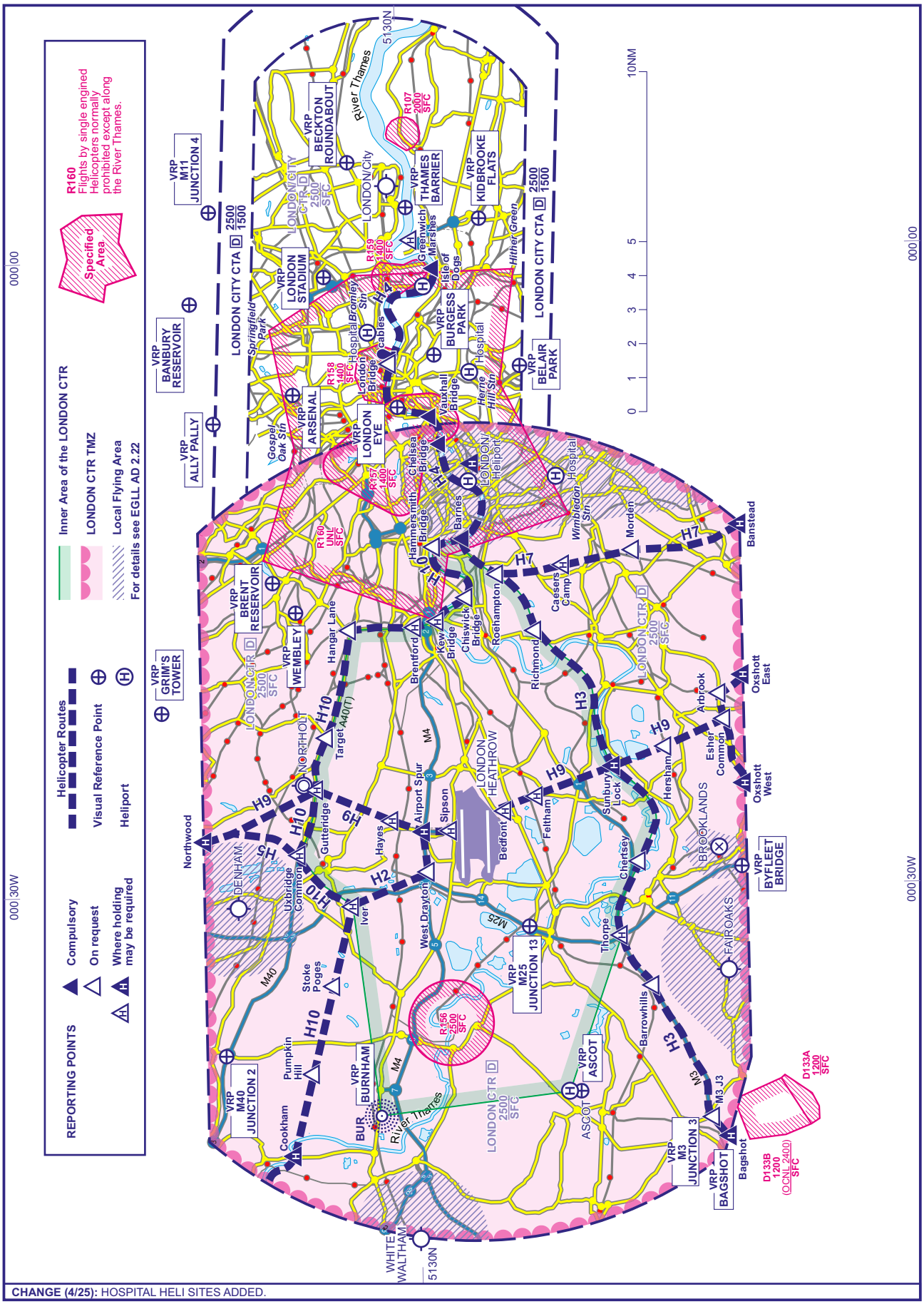
AERO INFO DATE 27 JUN 18

LONDON CTR LOCAL FLYING AND ENTRY/EXIT PROCEDURES — LONDON HEATHROW



HELICOPTER ROUTES IN THE LONDON CTR AND LONDON/CITY CTR

LONDON HEATHROW

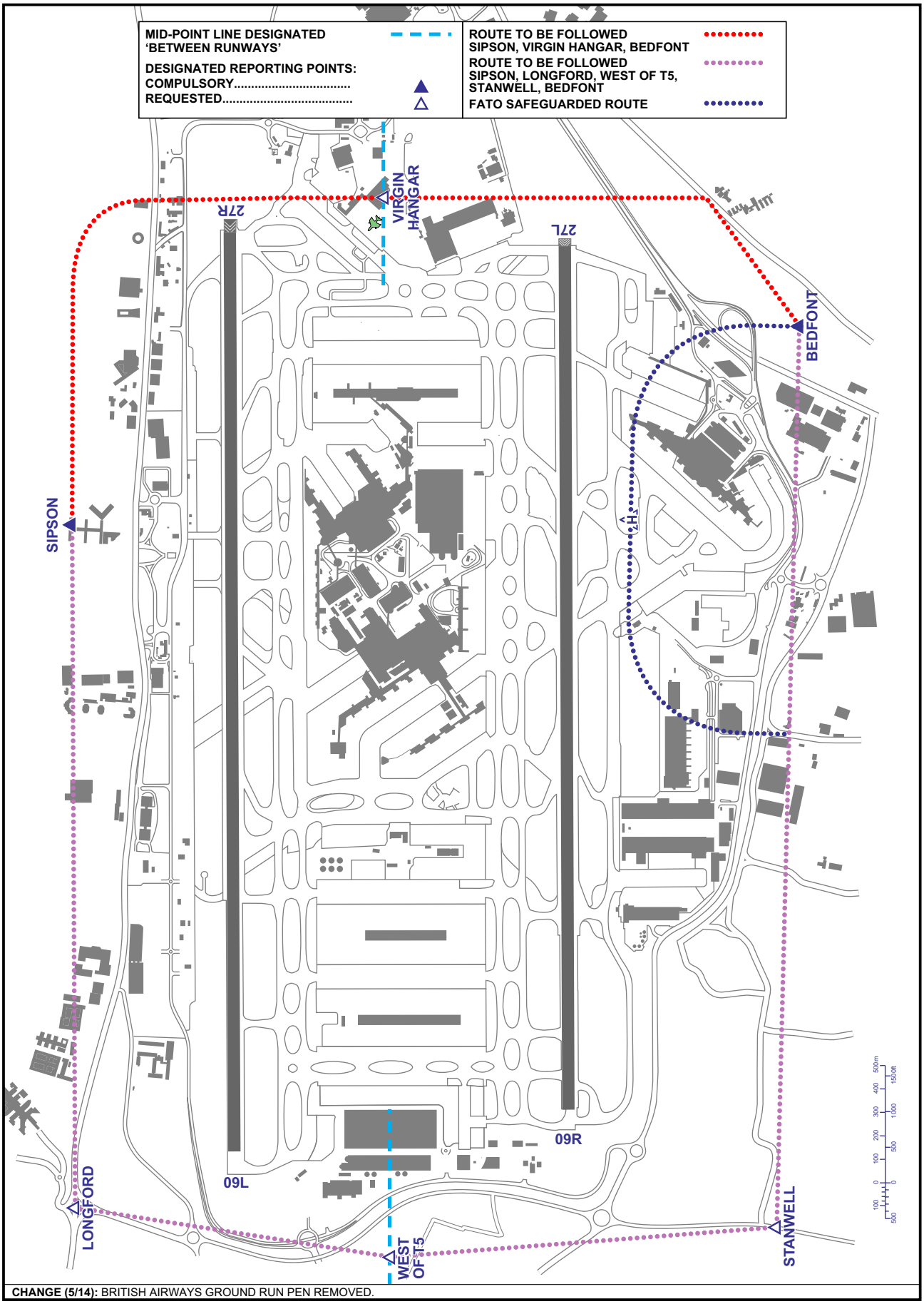


CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 28 JAN 25

AD 2-EGLL-3-2

LONDON HEATHROW - HELICOPTER CROSSING OPERATIONS



CHANGE (5/14): BRITISH AIRWAYS GROUND RUN PEN REMOVED.

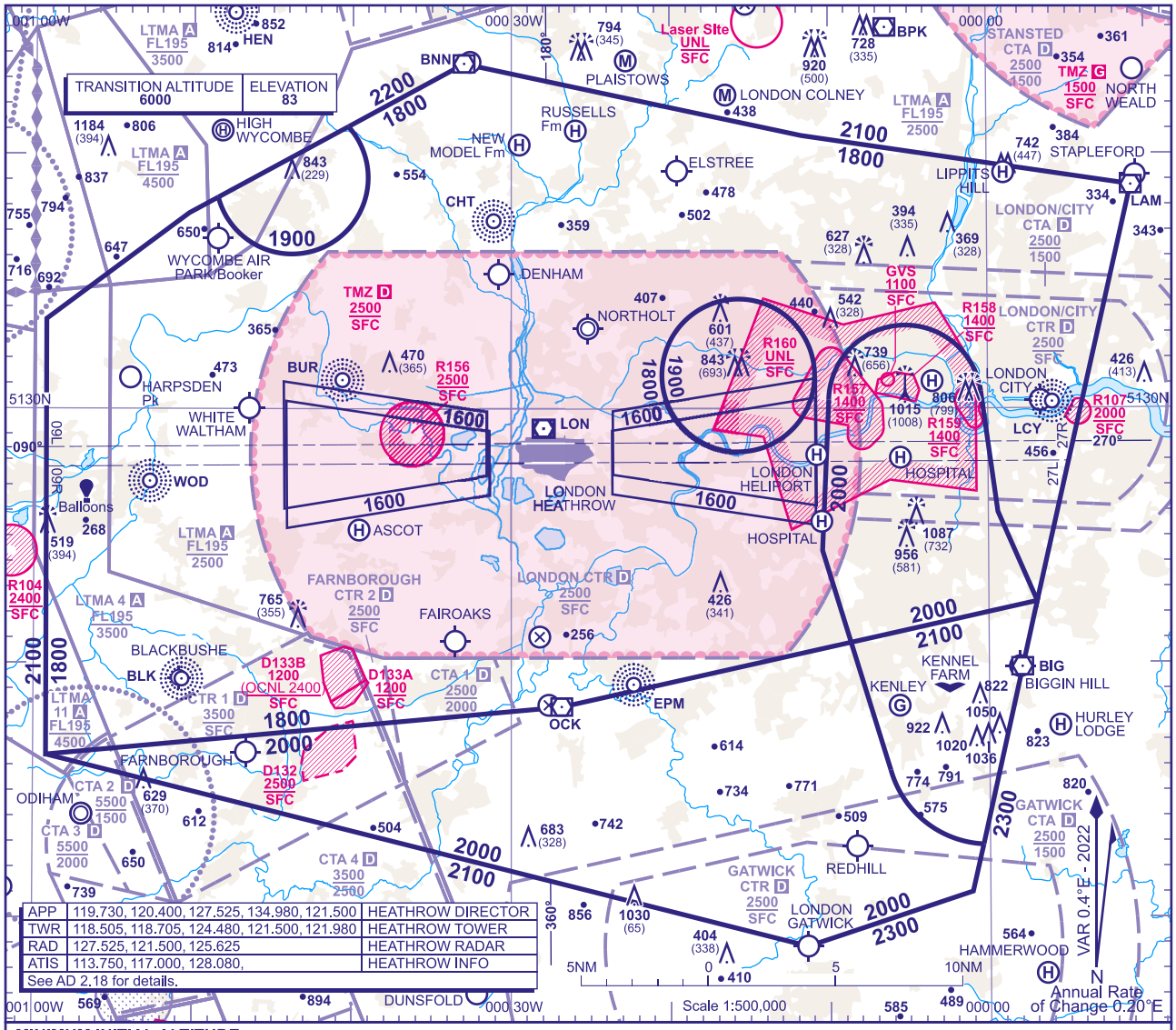
AERO INFO DATE 10 FEB 14

INTENTIONALLY BLANK

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1184
HEIGHTS IN FEET AGL (393)

LONDON HEATHROW



APP	119.730, 120.400, 127.525, 134.980, 121.500	HEATHROW DIRECTOR
TWR	118.505, 118.705, 124.480, 121.500, 121.980	HEATHROW TOWER
RAD	127.525, 121.500, 125.625	HEATHROW RADAR
ATIS	113.750, 117.000, 128.080,	HEATHROW INFO
See AD 2.18 for details.		

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1800** in the sector defined by the lateral limits; 513331N 0005917W - 513742N 0005019W - 513819N 0004830W thence anticlockwise by an arc of a circle radius 3NM centred on 513905N 0004351W to 514106N 0004017W - 514334N 0003259W - 514044N 0001141W - 513846N 0000906E - 512225N 0000302E - 512556N 0000036E - 513040N 0000026W then anticlockwise by an arc of a circle radius 3NM centred on 513016N 0000512W to 513022N 0001000W - 512426N 0001026W - 512049N 0000840W - 511818N 0002650W - 511624N 0005911W - 513331N 0005917W.

b) **1900** in the sector defined by the lateral limits; a circle radius 3NM centred on 513119N 0001542W .

c) **1900** in the sector defined by the lateral limits; 513819N 0004830W - 514106N 0004017W thence clockwise by an arc of a circle radius 3NM centred on 513905N 0004351W to 513819N 0004830W.

d) **2000** in the sector defined by the lateral limits; 511624N 0005911W - 511818N 0002650W - 512049N 0000840W - 511548N 0000613W - thence anticlockwise by an arc of a circle radius 4NM centred on 511651N 0000005W to 511252N 0000025W - 511101N 0000106W - 510853N 0001125W - 511624N 0005911W.

e) **2000** in the sector defined by the lateral limits; 513022N 0001000W thence clockwise by an arc of a circle radius 3NM centred on 513016N 0000512W to 513040N 0000026W - 512556N 0000036E - 512225N 0000302E - 512049N 0000840W - 512426N 0001026W - 513022N 0001000W.

f) **2100** in the sector defined by the lateral limits; 512049N 0000840W - 512225N 0000302E - 511252N 0000025W thence clockwise by an arc of a circle radius 4NM centred on 511651N 0000005W to 511548N 0000613W - 512049N 0000840W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed to **EPM NDB**† (RWY 09R, 27L) or **CHT NDB** (RWY 09L, 27R) or last assigned level if higher.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **EPM NDB**† (RWY 09R, 27L) or **CHT NDB** (RWY 09L, 27R).

†In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4 or the Modified Procedure for the Missed Approach Radio Failure detailed at AD 2-EGLL-1-18.

For **GENERAL INFORMATION** see EGLL 5-2.

CHANGE (6/25): TWR FREQ UPDATED. THAME PARK REMOVED.

AERO INFO DATE 19 MAR 25

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

LONDON HEATHROW

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. 913FT vertical separation approved against the Crystal Palace mast to meet ATS operational requirements.
7. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

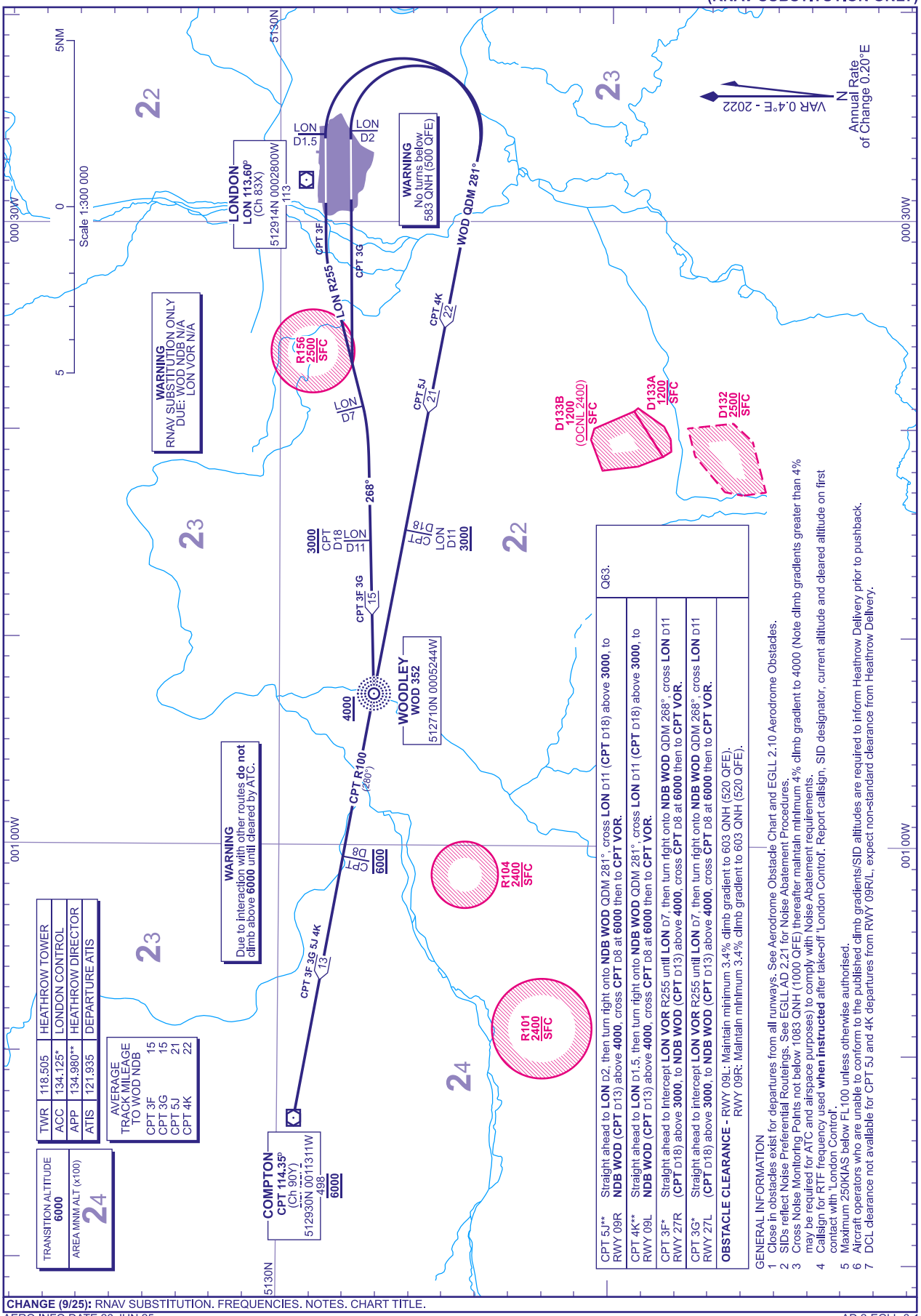
CHANGE (14/20): NOTE 3 UPDATED.

AERO INFO DATE 29 OCT 2020

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
RWY 09R/L RWY 27R/L
CPT 5J 4K 3F 3G
(RNAV SUBSTITUTION ONLY)



CHANGE (9/25): RNAV SUBSTITUTION. FREQUENCIES. NOTES. CHART TITLE.

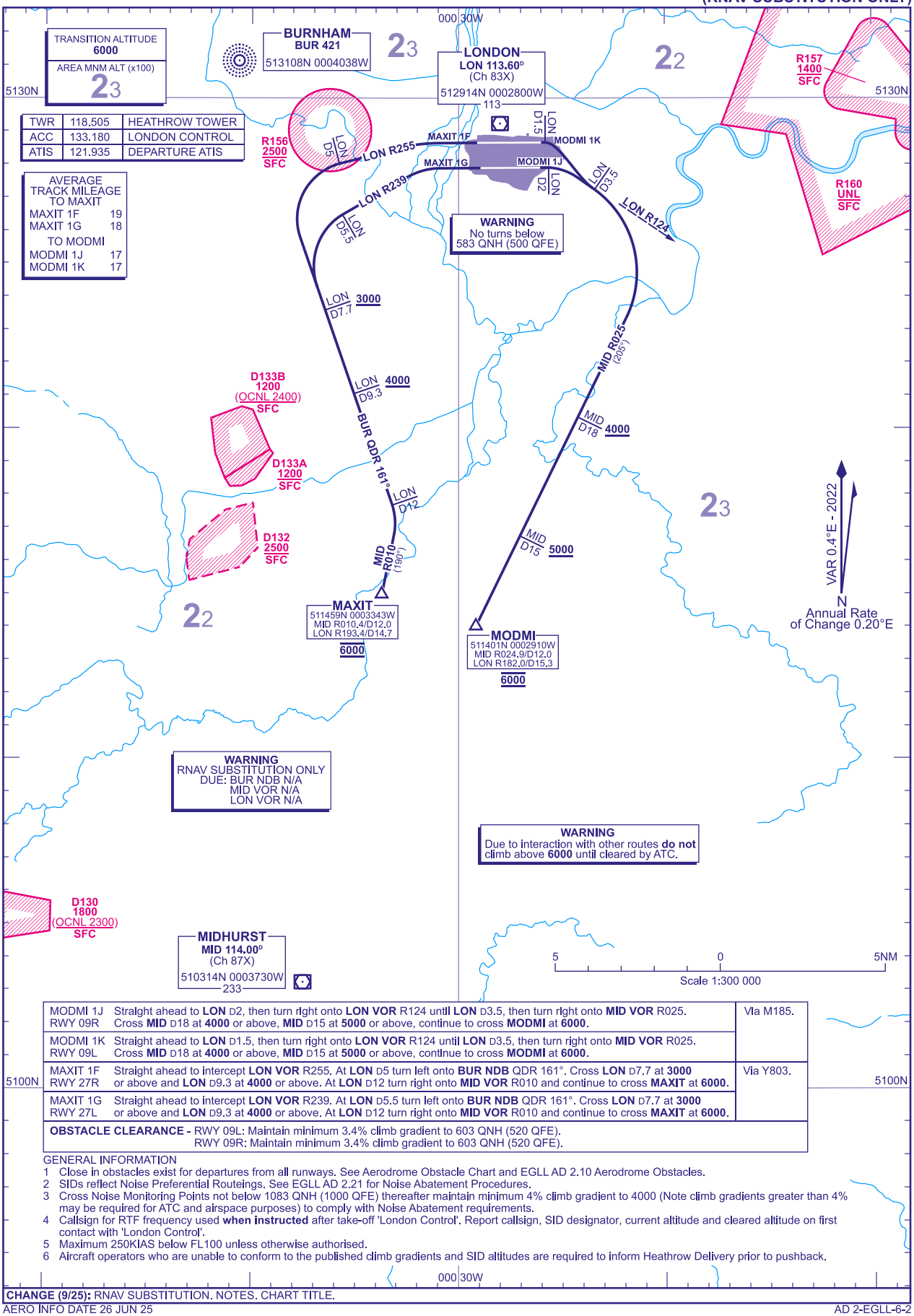
AERO INFO DATE 26 JUN 25

AD 2-EGLL-6-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
RWY 09R/L RWY 27R/L
MODMI 1J 1K MAXIT 1F 1G
(RNAV SUBSTITUTION ONLY)



MODMI 1J RWY 09R	Straight ahead to **LON** VOR D2, then turn right onto **LON VOR** R124 until **LON** D3.5, then turn right onto **MID VOR** R025. Cross **MID** D18 at **4000** or above, **MID** D15 at **5000** or above, continue to cross **MODMI** at **6000**.	Via M185.
MODMI 1K RWY 09L	Straight ahead to **LON** D1.5, then turn right onto **LON VOR** R124 until **LON** D3.5, then turn right onto **MID VOR** R025. Cross **MID** D18 at **4000** or above, **MID** D15 at **5000** or above, continue to cross **MODMI** at **6000**.	
MAXIT 1F RWY 27R	Straight ahead to intercept **LON VOR** R255. At **LON** D5 turn left onto **BUR NDB** QDR 161°. Cross **LON** D7.7 at **3000** or above and **LON** D9.3 at **4000** or above. At **LON** D12 turn right onto **MID VOR** R010 and continue to cross **MAXIT** at **6000**.	Via Y803.
MAXIT 1G RWY 27L	Straight ahead to intercept **LON VOR** R239. At **LON** D5.5 turn left onto **BUR NDB** QDR 161°. Cross **LON** D7.7 at **3000** or above and **LON** D9.3 at **4000** or above. At **LON** D12 turn right onto **MID VOR** R010 and continue to cross **MAXIT** at **6000**.	
OBSTACLE CLEARANCE - RWY 09L: Maintain minimum 3.4% climb gradient to 603 QNH (520 QFE). RWY 09R: Maintain minimum 3.4% climb gradient to 603 QNH (520 QFE).		

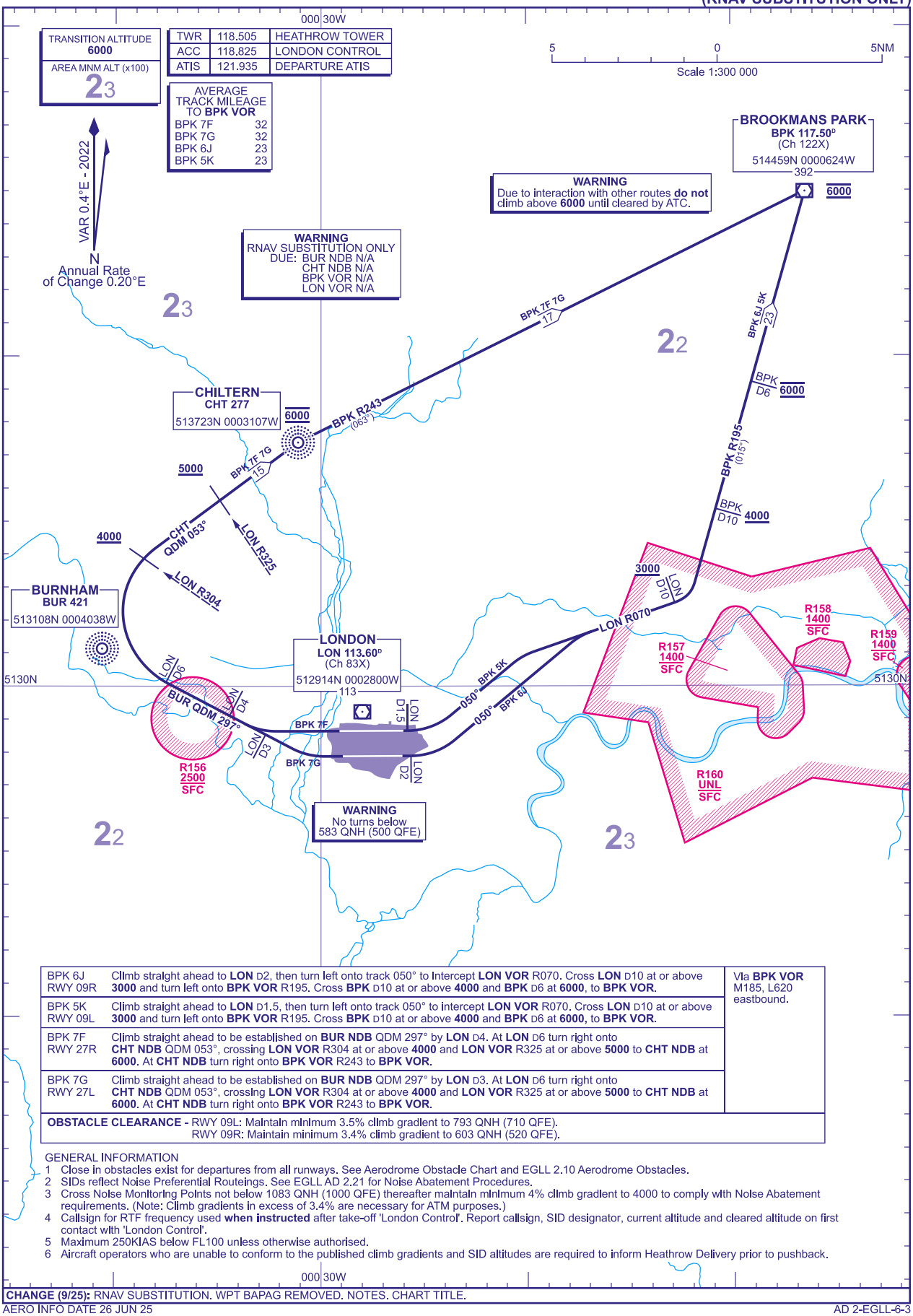
GENERAL INFORMATION
1 Close in obstacles exist for departures from all runways. See Aerodrome Obstacle Chart and EGLL AD 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGLL AD 2.21 for Noise Abatement Procedures.
3 Cross Noise Monitoring Points not below 1083 QNH (1000 QFE) thereafter maintain minimum 4% climb gradient to 4000 (Note climb gradients greater than 4% may be required for ATC and airspace purposes) to comply with Noise Abatement requirements.
4 Callsign for RTF frequency used **when instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'London Control'.
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 Aircraft operators who are unable to conform to the published climb gradients and SID altitudes are required to inform Heathrow Delivery prior to pushback.

CHANGE (9/25): RNAV SUBSTITUTION. NOTES. CHART TITLE.
AERO INFO DATE 26 JUN 25
AD 2-EGLL-6-2

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
RWY 09R/L RWY 27R/L
BPK 6J 5K 7F 7G
(RNAV SUBSTITUTION ONLY)



BPK 6J RWY 09R	Climb straight ahead to **LON** D2, then turn left onto track 050° to Intercept **LON VOR** R070. Cross **LON** D10 at or above **3000** and turn left onto **BPK VOR** R195. Cross **BPK** D10 at or above **4000** and **BPK** D6 at **6000**, to **BPK VOR**.	Via **BPK VOR** M185, L620 eastbound.
BPK 5K RWY 09L	Climb straight ahead to **LON** D1.5, then turn left onto track 050° to intercept **LON VOR** R070. Cross **LON** D10 at or above **3000** and turn left onto **BPK VOR** R195. Cross **BPK** D10 at or above **4000** and **BPK** D6 at **6000**, to **BPK VOR**.	
BPK 7F RWY 27R	Climb straight ahead to be established on **BUR NDB** QDM 297° by **LON** D4. At **LON** D6 turn right onto **CHT NDB** QDM 053°, crossing **LON VOR** R304 at or above **4000** and **LON VOR** R325 at or above **5000** to **CHT NDB** at **6000**. At **CHT NDB** turn right onto **BPK VOR** R243 to **BPK VOR**.	
BPK 7G RWY 27L	Climb straight ahead to be established on **BUR NDB** QDM 297° by **LON** D3. At **LON** D6 turn right onto **CHT NDB** QDM 053°, crossing **LON VOR** R304 at or above **4000** and **LON VOR** R325 at or above **5000** to **CHT NDB** at **6000**. At **CHT NDB** turn right onto **BPK VOR** R243 to **BPK VOR**.	
OBSTACLE CLEARANCE - RWY 09L: Maintain minimum 3.5% climb gradient to 793 QNH (710 QFE). RWY 09R: Maintain minimum 3.4% climb gradient to 603 QNH (520 QFE).		

GENERAL INFORMATION
1 Close in obstacles exist for departures from all runways. See Aerodrome Obstacle Chart and EGLL 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGLL AD 2.21 for Noise Abatement Procedures.
3 Cross Noise Monitoring Points not below 1083 QNH (1000 QFE) thereafter maintain minimum 4% climb gradient to 4000 to comply with Noise Abatement requirements. (Note: Climb gradients in excess of 3.4% are necessary for ATM purposes.)
4 Callsign for RTF frequency used **when instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'London Control'.
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 Aircraft operators who are unable to conform to the published climb gradients and SID altitudes are required to inform Heathrow Delivery prior to pushback.

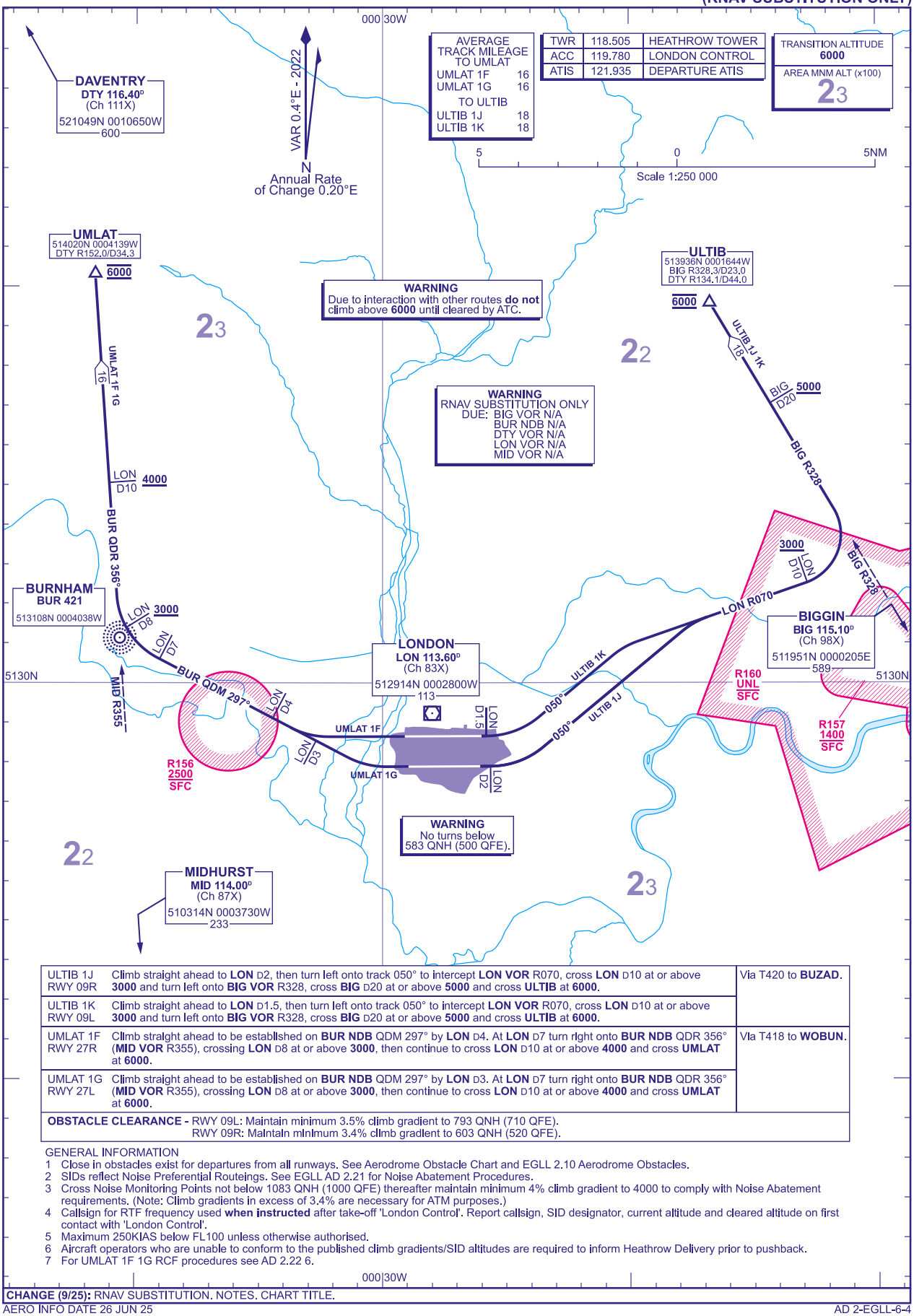
CHANGE (9/25): RNAV SUBSTITUTION. WPT BAPAG REMOVED. NOTES. CHART TITLE.

AERO INFO DATE 26 JUN 25
AD 2-EGLL-6-3

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
RWY 09R/L RWY 27R/L
ULTIB 1J 1K UMLAT 1F 1G
(RNAV SUBSTITUTION ONLY)



ULTIB 1J RWY 09R	Climb straight ahead to **LON** D2, then turn left onto track 050° to intercept **LON VOR** R070, cross **LON** D10 at or above **3000** and turn left onto **BIG VOR** R328, cross **BIG** D20 at or above **5000** and cross **ULTIB** at **6000**.	Via T420 to **BUZAD**.
ULTIB 1K RWY 09L	Climb straight ahead to **LON** D1.5, then turn left onto track 050° to intercept **LON VOR** R070, cross **LON** D10 at or above **3000** and turn left onto **BIG VOR** R328, cross **BIG** D20 at or above **5000** and cross **ULTIB** at **6000**.	
UMLAT 1F RWY 27R	Climb straight ahead to be established on **BUR NDB** QDM 297° by **LON** D4. At **LON** D7 turn right onto **BUR NDB** QDR 356° (**MID VOR** R355), crossing **LON** D8 at or above **3000**, then continue to cross **LON** D10 at or above **4000** and cross **UMLAT** at **6000**.	Via T418 to **WOBUN**.
UMLAT 1G RWY 27L	Climb straight ahead to be established on **BUR NDB** QDM 297° by **LON** D3. At **LON** D7 turn right onto **BUR NDB** QDR 356° (**MID VOR** R355), crossing **LON** D8 at or above **3000**, then continue to cross **LON** D10 at or above **4000** and cross **UMLAT** at **6000**.	
OBSTACLE CLEARANCE - RWY 09L: Maintain minimum 3.5% climb gradient to 793 QNH (710 QFE). RWY 09R: Maintain minimum 3.4% climb gradient to 603 QNH (520 QFE).		

GENERAL INFORMATION
1 Close in obstacles exist for departures from all runways. See Aerodrome Obstacle Chart and EGLL 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGLL AD 2.21 for Noise Abatement Procedures.
3 Cross Noise Monitoring Points not below 1083 QNH (1000 QFE) thereafter maintain minimum 4% climb gradient to 4000 to comply with Noise Abatement requirements. (Note: Climb gradients in excess of 3.4% are necessary for ATM purposes.)
4 Callsign for RTF frequency used **when instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'London Control'.
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 Aircraft operators who are unable to conform to the published climb gradients/SID altitudes are required to inform Heathrow Delivery prior to pushback.
7 For UMLAT 1F 1G RCF procedures see AD 2.22 6.

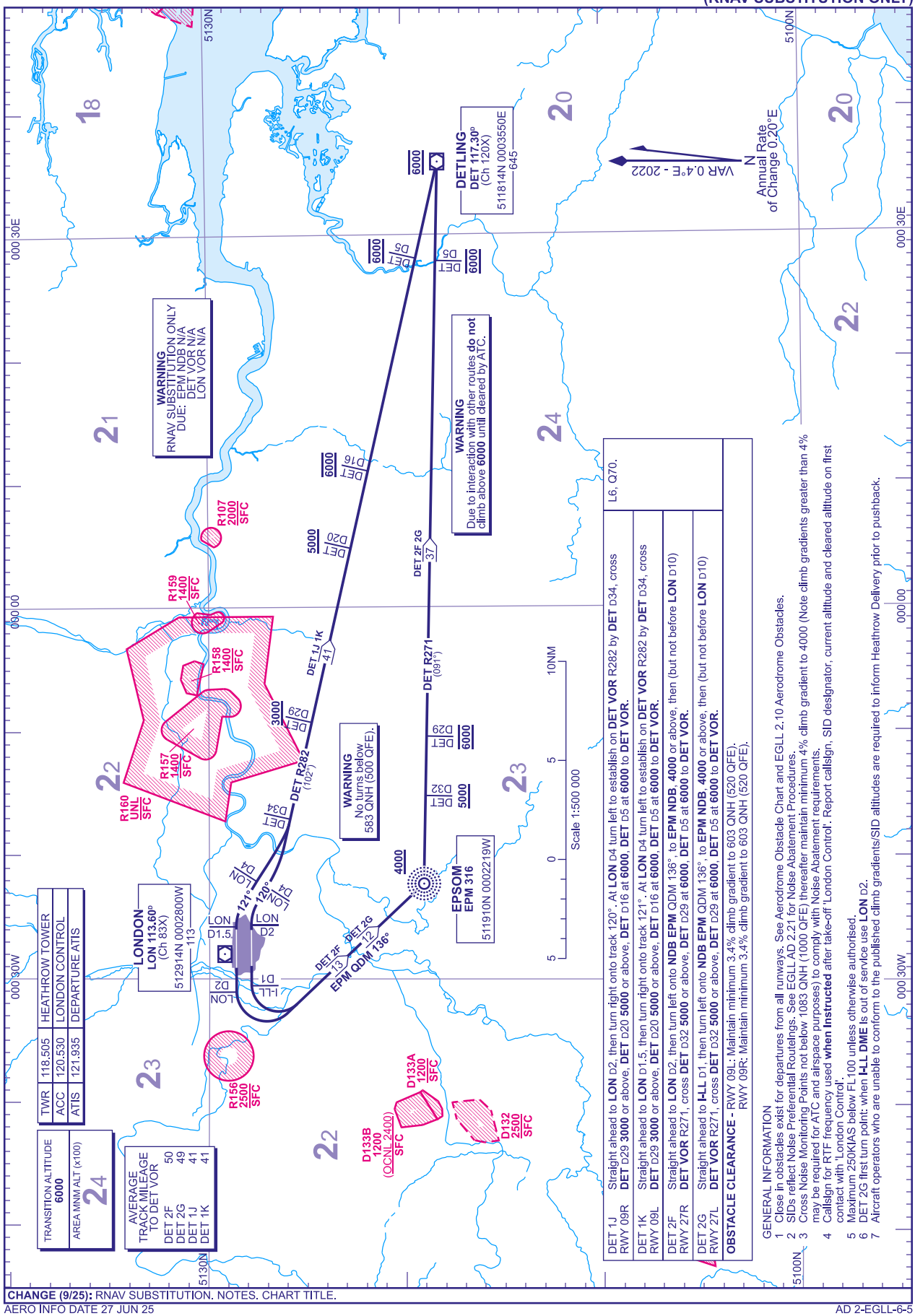
CHANGE (9/25): RNAV SUBSTITUTION. NOTES. CHART TITLE.

AERO INFO DATE 26 JUN 25
AD 2-EGLL-6-4

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

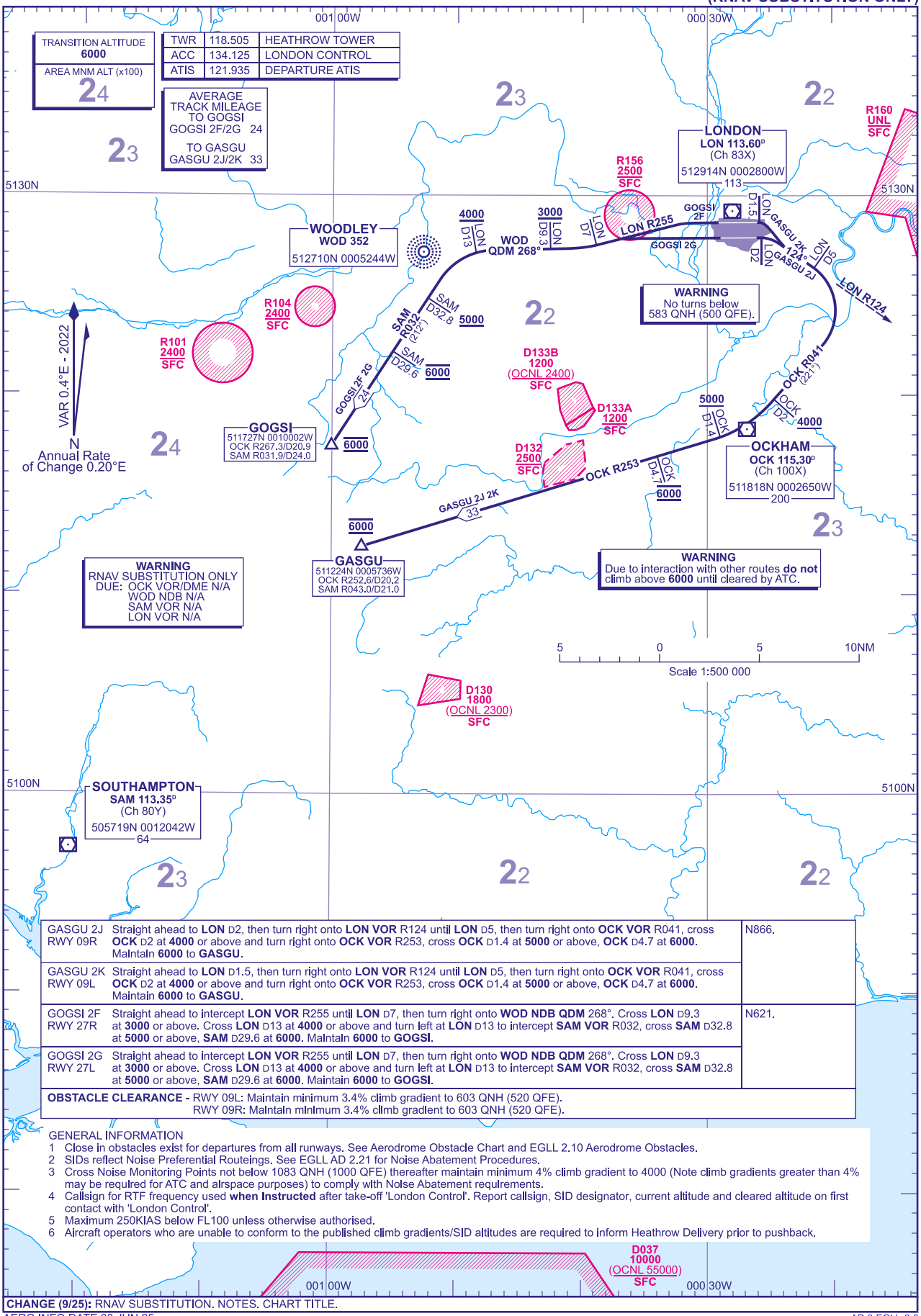
LONDON HEATHROW
RWY 09R/L RWY 27R/L
DET 1J 1K 2F 2G
(RNAV SUBSTITUTION ONLY)



STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
RWY 09R/L RWY 27R/L
GASGU 2J 2K GOGSI 2F 2G
(RNAV SUBSTITUTION ONLY)



GASGU 2J RWY 09R	Straight ahead to **LON** D2, then turn right onto **LON VOR** R124 until **LON** D5, then turn right onto **OCK VOR** R041, cross **OCK** D2 at **4000** or above and turn right onto **OCK VOR** R253, cross **OCK** D1.4 at **5000** or above, **OCK** D4.7 at **6000**. Maintain **6000** to **GASGU**.	N866.
GASGU 2K RWY 09L	Straight ahead to **LON** D1.5, then turn right onto **LON VOR** R124 until **LON** D5, then turn right onto **OCK VOR** R041, cross **OCK** D2 at **4000** or above and turn right onto **OCK VOR** R253, cross **OCK** D1.4 at **5000** or above, **OCK** D4.7 at **6000**. Maintain **6000** to **GASGU**.	
GOGSI 2F RWY 27R	Straight ahead to intercept **LON VOR** R255 until **LON** D7, then turn right onto **WOD NDB QDM** 268°. Cross **LON** D9.3 at **3000** or above. Cross **LON** D13 at **4000** or above and turn left at **LON** D13 to intercept **SAM VOR** R032, cross **SAM** D32.8 at **5000** or above, **SAM** D29.6 at **6000**. Maintain **6000** to **GOGSI**.	N621.
GOGSI 2G RWY 27L	Straight ahead to intercept **LON VOR** R255 until **LON** D7, then turn right onto **WOD NDB QDM** 268°. Cross **LON** D9.3 at **3000** or above. Cross **LON** D13 at **4000** or above and turn left at **LON** D13 to intercept **SAM VOR** R032, cross **SAM** D32.8 at **5000** or above, **SAM** D29.6 at **6000**. Maintain **6000** to **GOGSI**.	
OBSTACLE CLEARANCE - RWY 09L: Maintain minimum 3.4% climb gradient to 603 QNH (520 QFE). RWY 09R: Maintain minimum 3.4% climb gradient to 603 QNH (520 QFE).		

GENERAL INFORMATION
1 Close in obstacles exist for departures from all runways. See Aerodrome Obstacle Chart and EGLL 2.10 Aerodrome Obstacles.
2 SIDs reflect Noise Preferential Routeings. See EGLL AD 2.21 for Noise Abatement Procedures.
3 Cross Noise Monitoring Points not below 1083 QNH (1000 QFE) thereafter maintain minimum 4% climb gradient to 4000 (Note climb gradients greater than 4% may be required for ATC and airspace purposes) to comply with Noise Abatement requirements.
4 Callsign for RTF frequency used **when Instructed** after take-off 'London Control'. Report callsign, SID designator, current altitude and cleared altitude on first contact with 'London Control'.
5 Maximum 250KIAS below FL100 unless otherwise authorised.
6 Aircraft operators who are unable to conform to the published climb gradients/SID altitudes are required to inform Heathrow Delivery prior to pushback.

CHANGE (9/25): RNAV SUBSTITUTION. NOTES. CHART TITLE.

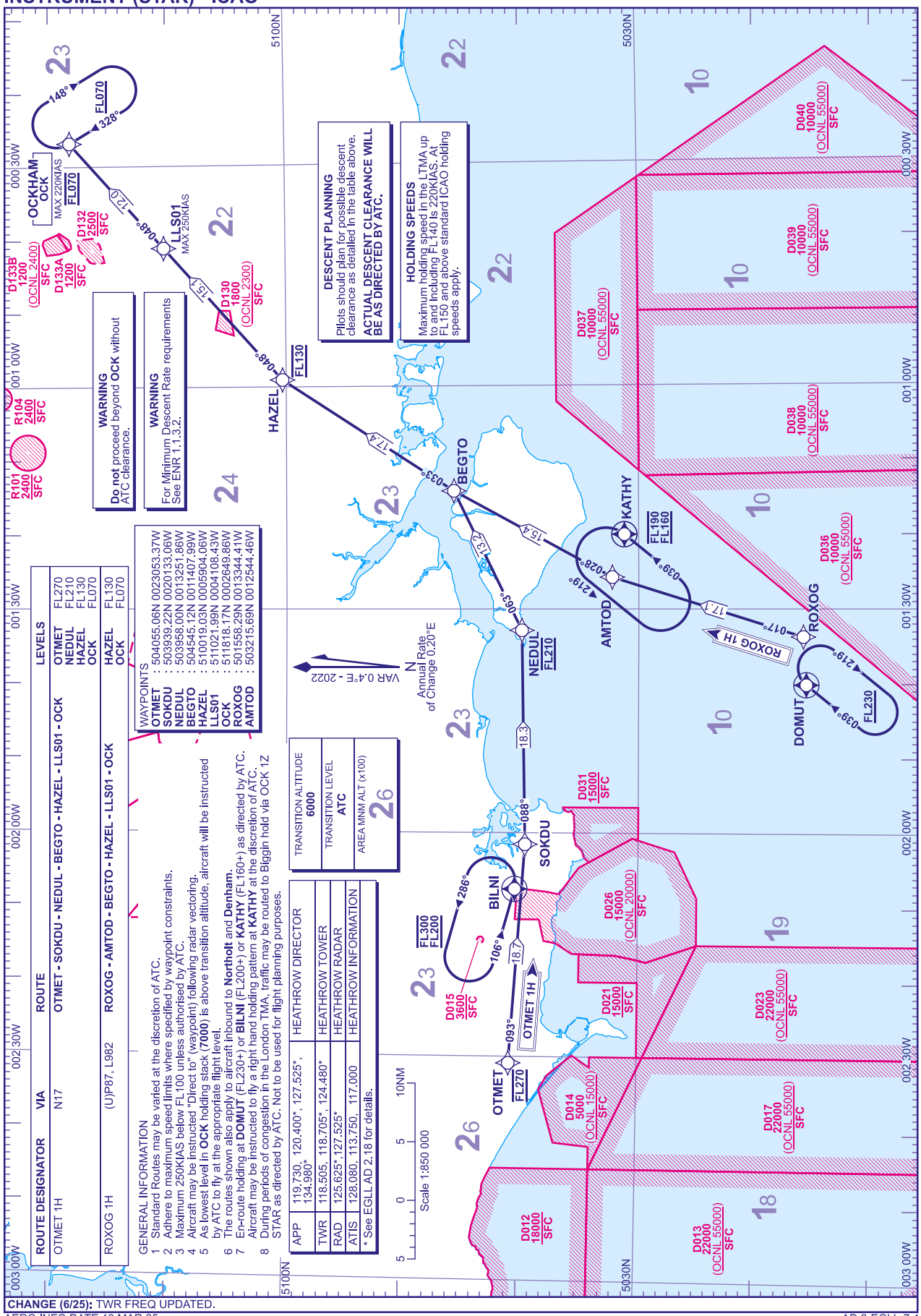
AERO INFO DATE 30 JUN 25

AD 2-EGLL-6-6

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
OTMET 1H ROXOG 1H



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
OTMET 1H	N17	OTMET - SOKDU - NEDUL - BEGTO - HAZEL - LLS01 - OCK	OTMET FL270 NEDUL FL210 HAZEL FL130 OCK FL070
ROXOG 1H	(U)P87, L982	ROXOG - AMTOD - BEGTO - HAZEL - LLS01 - OCK	HAZEL FL130 OCK FL070

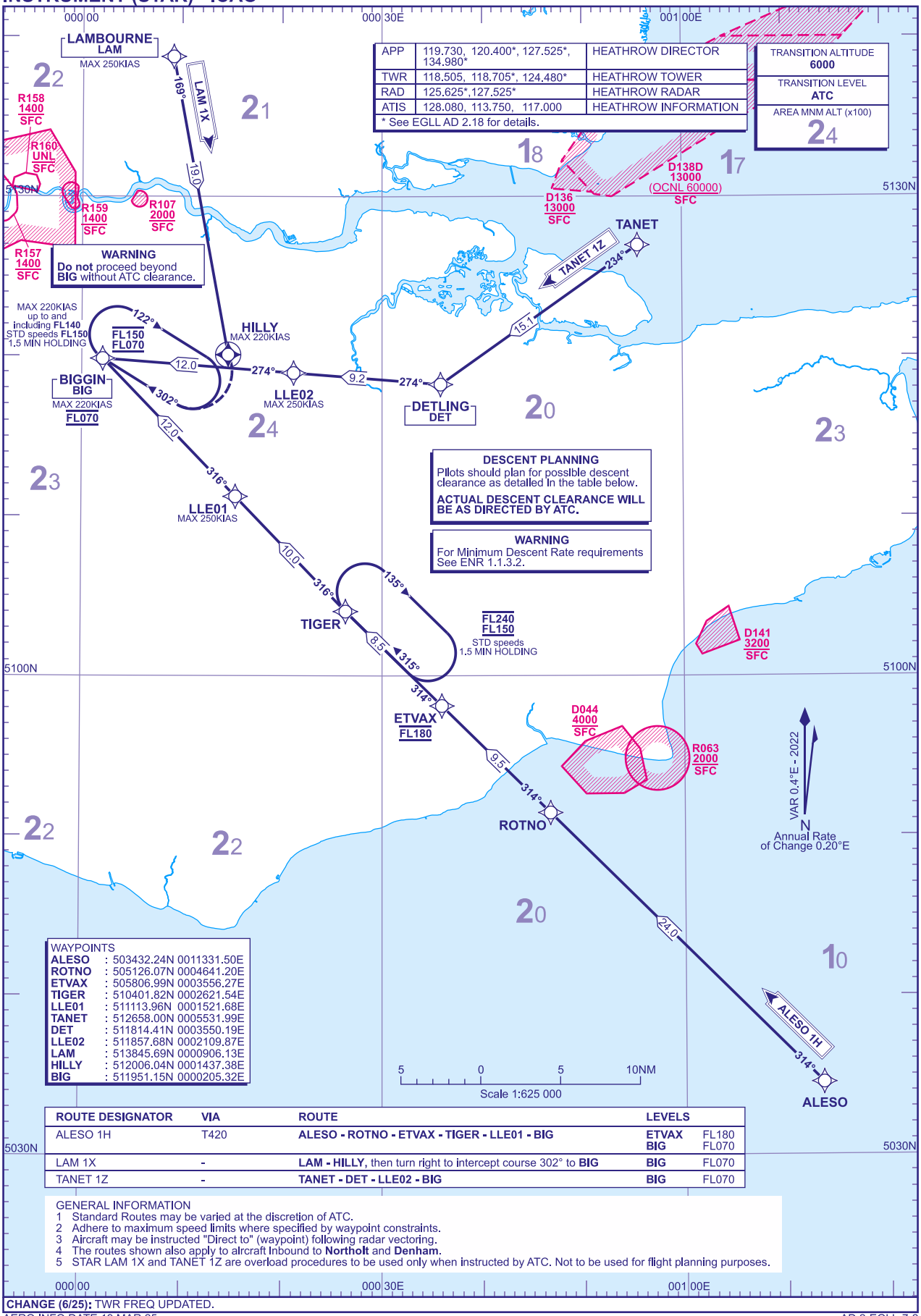
GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 As lowest level in **OCK** holding stack (**7000**) is above transition altitude, aircraft will be instructed by ATC to fly at the appropriate flight level.
6 The routes shown also apply to aircraft inbound to **Northolt** and **Denham**.
7 En-route holding at **DOMUT** (FL230+) or **BILNI** (FL200+) or **KATHY** (FL160+) as directed by ATC. Aircraft may be instructed to fly a right hand holding pattern at **KATHY** at the discretion of ATC.
8 During periods of congestion in the London TMA, traffic may be routed to Biggin hold via OCK 1Z STAR as directed by ATC. Not to be used for flight planning purposes.

CHANGE (6/25): TWR FREQ UPDATED.

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
ALESO 1H LAM 1X TANET 1Z



WAYPOINTS

ALESO	503432.24N 0011331.50E
ROTNO	505126.07N 0004641.20E
ETVAX	505806.99N 0003556.27E
TIGER	510401.82N 0002621.54E
LLE01	511113.96N 0001521.68E
TANET	512658.00N 0005531.99E
DET	511814.41N 0003550.19E
LLE02	511857.68N 0002109.87E
LAM	513845.69N 0000906.13E
HILLY	512006.04N 0001437.38E
BIG	511951.15N 0000205.32E

ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
ALESO 1H	T420	**ALESO - ROTNO - ETVAX - TIGER - LLE01 - BIG**	**ETVAX** **BIG**	FL180 FL070
LAM 1X	-	**LAM - HILLY**, then turn right to intercept course 302° to **BIG**	**BIG**	FL070
TANET 1Z	-	**TANET - DET - LLE02 - BIG**	**BIG**	FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
4 The routes shown also apply to aircraft Inbound to **Northolt** and **Denham**.
5 STAR LAM 1X and TANET 1Z are overload procedures to be used only when instructed by ATC. Not to be used for flight planning purposes.

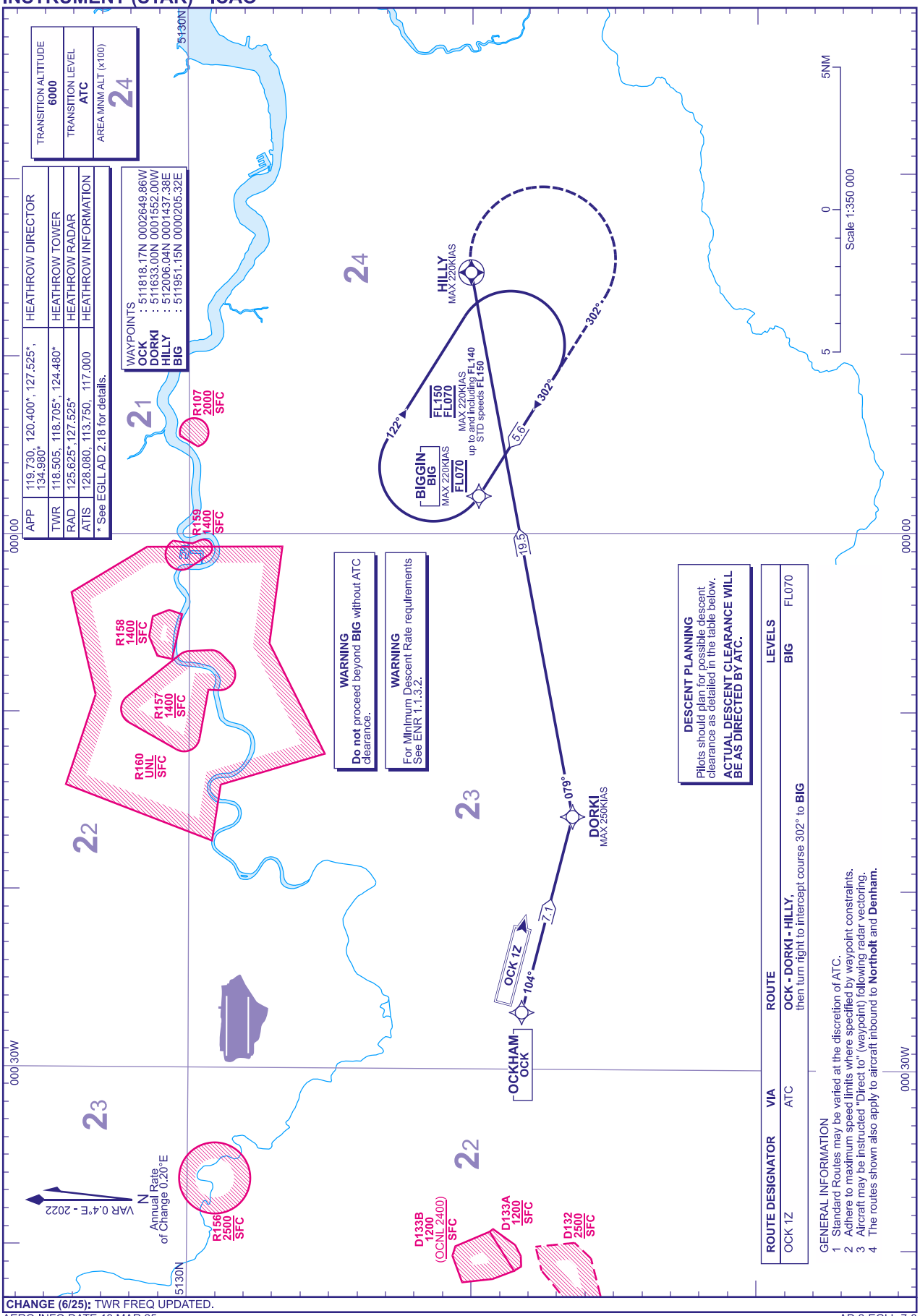
CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 19 MAR 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
OCK 1Z



CHANGE (6/25): TWR FREQ UPDATED.

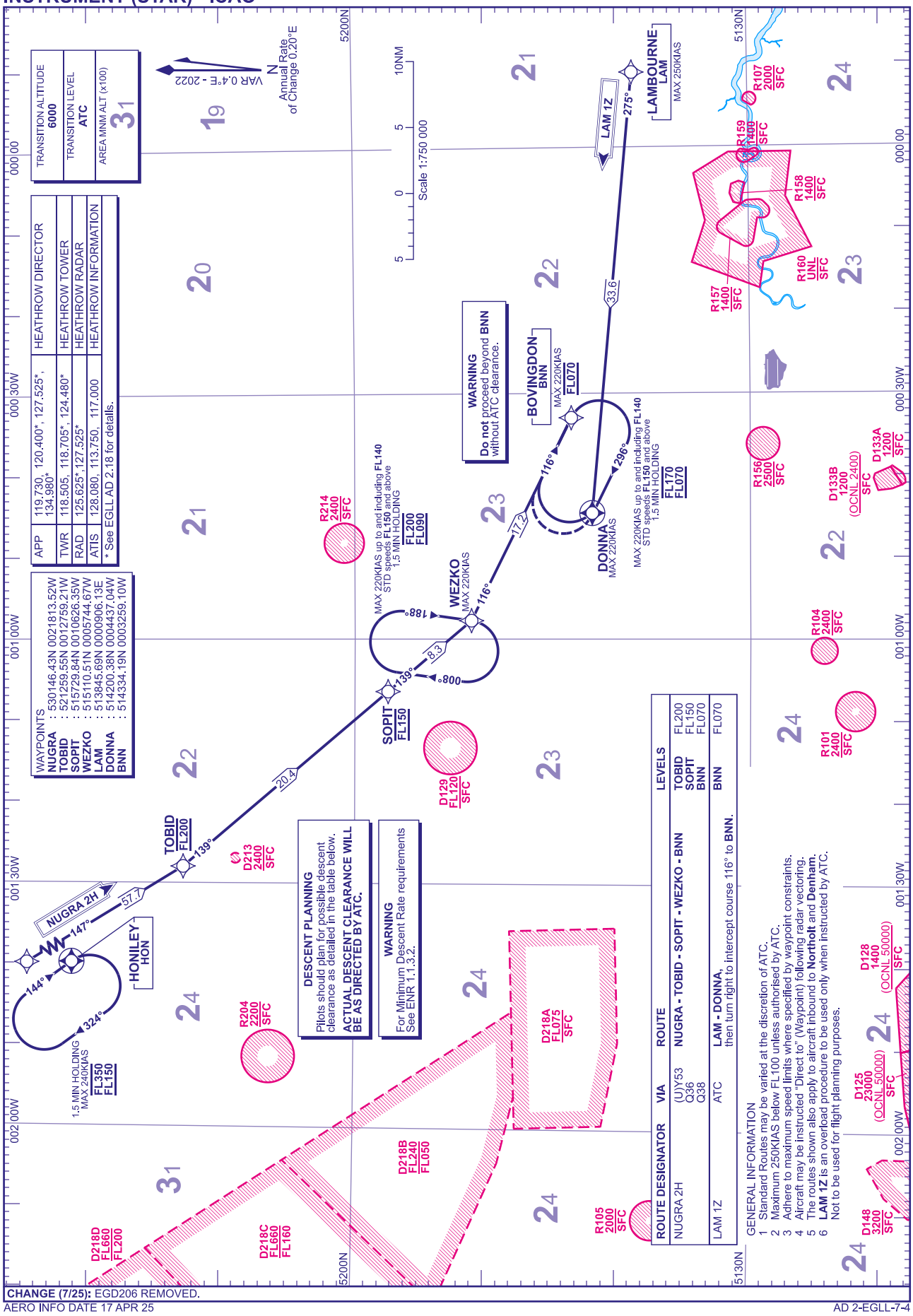
AERO INFO DATE 19 MAR 25

AD 2-EGLL-7-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW NUGRA 2H LAM 1Z

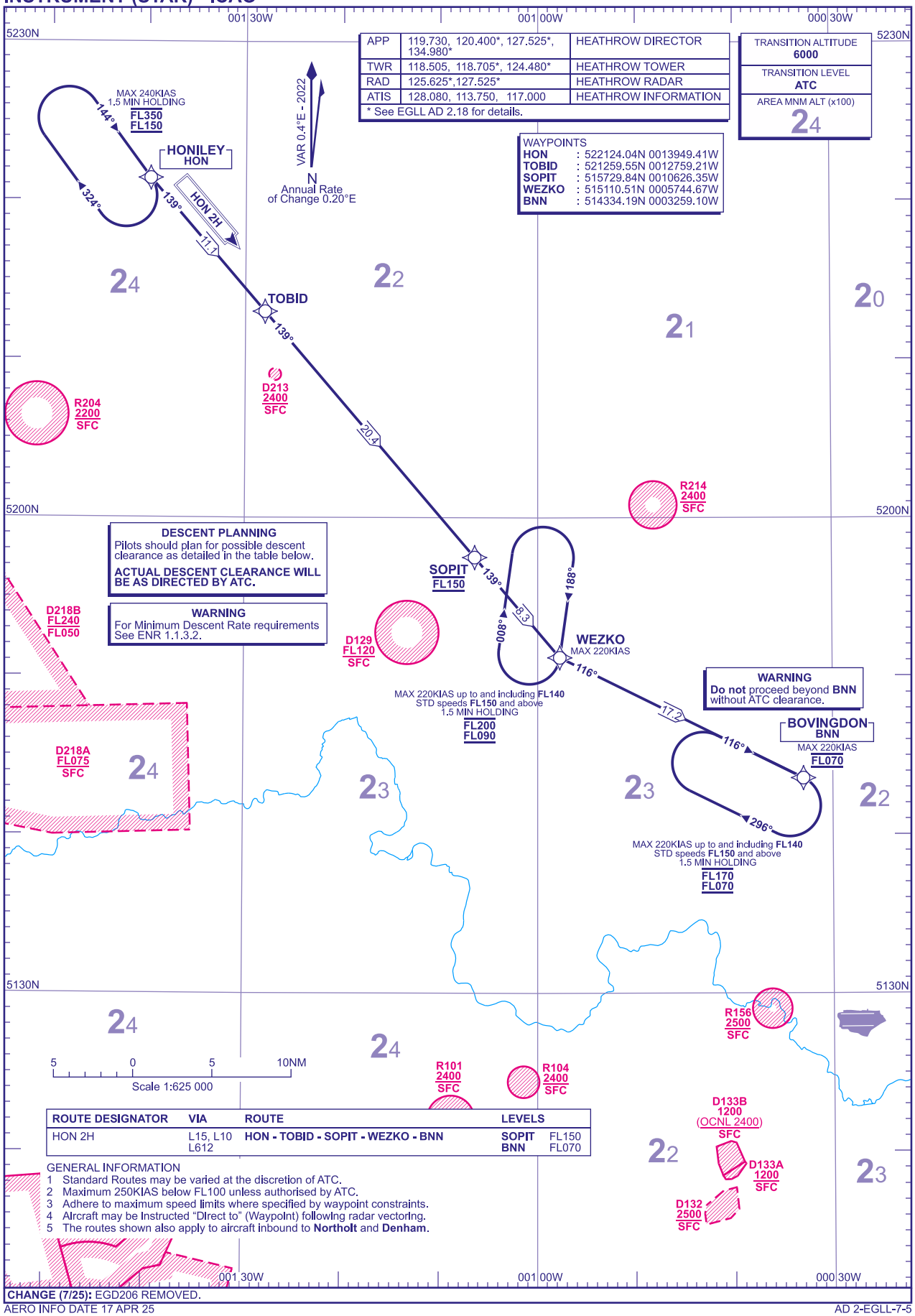


CHANGE (7/25): EGD206 REMOVED.
AERO INFO DATE 17 APR 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
HON 2H



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
HON 2H	L15, L10 L612	HON - TOBID - SOPIT - WEZKO - BNN	SOPIT FL150 BNN FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Maximum 250KIAS below FL100 unless authorised by ATC.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed "Direct to" (Waypoint) following radar vectoring.
5 The routes shown also apply to aircraft inbound to **Northolt** and **Denham**.

CHANGE (7/25): EGD206 REMOVED.

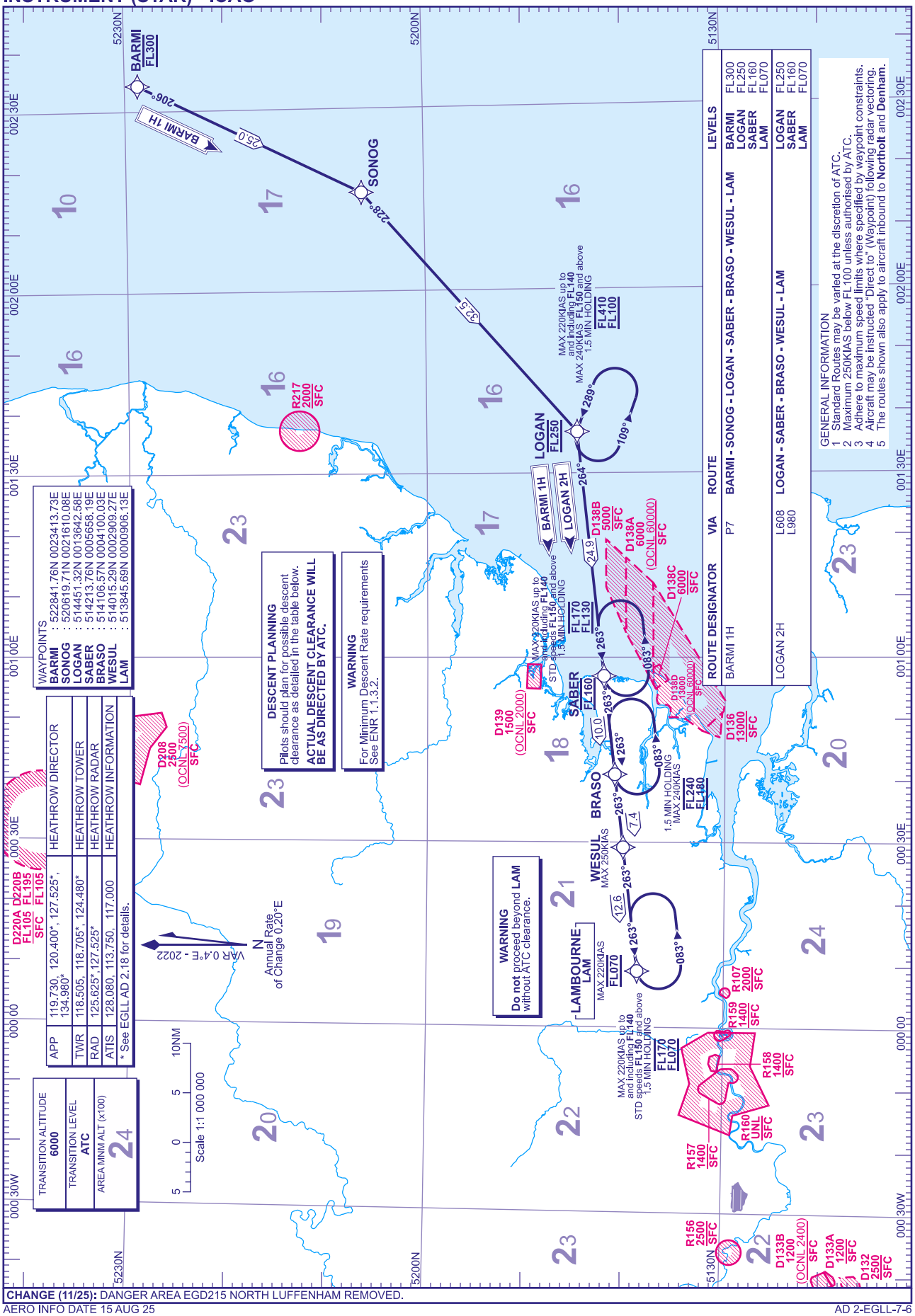
AERO INFO DATE 17 APR 25

AD 2-EGLL-7-5

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
BARMI 1H LOGAN 2H



CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED.

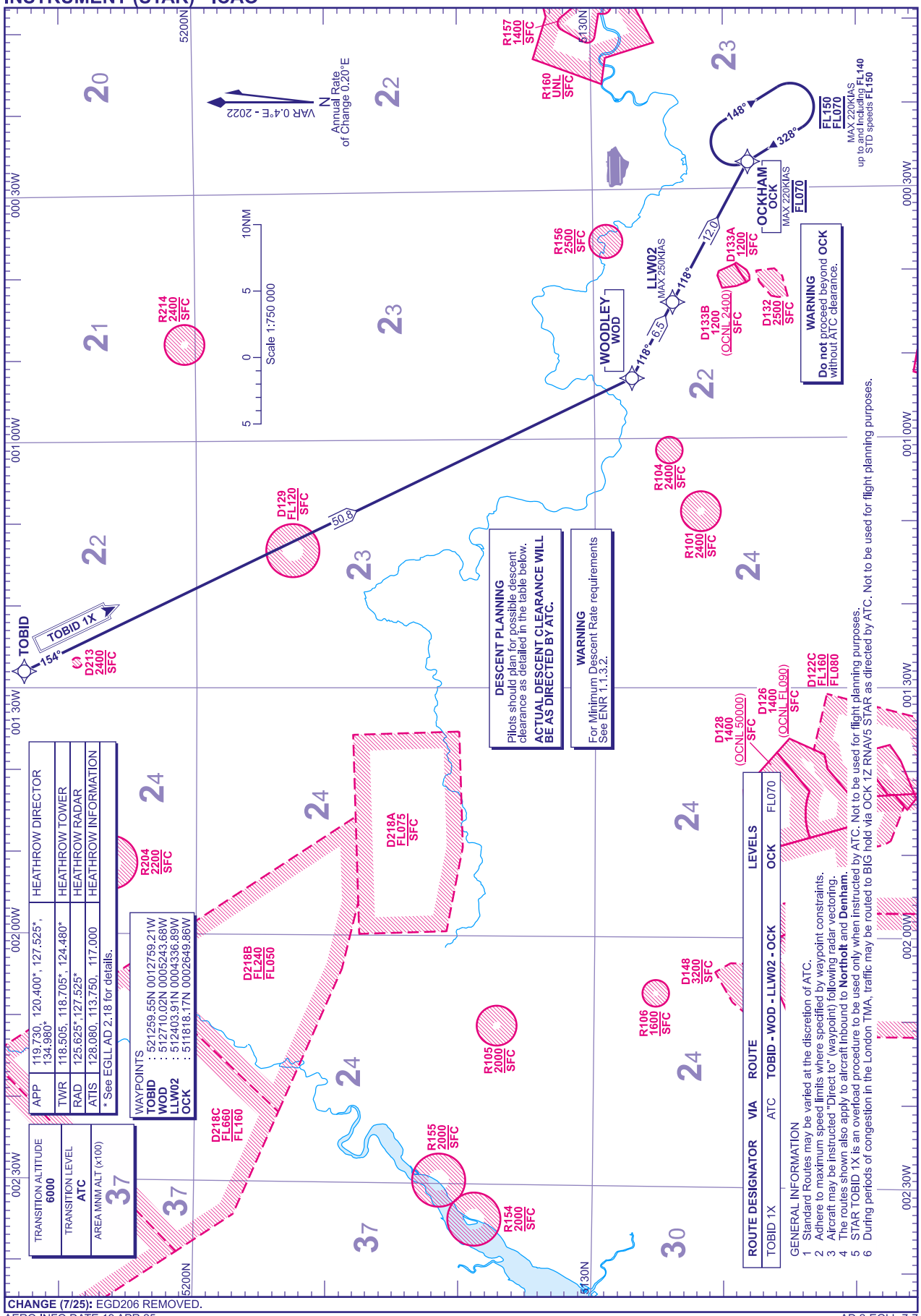
AERO INFO DATE 15 AUG 25

AD 2-EGLL-7-6

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW TOBID 1X



CHANGE (7/25): EGD206 REMOVED.

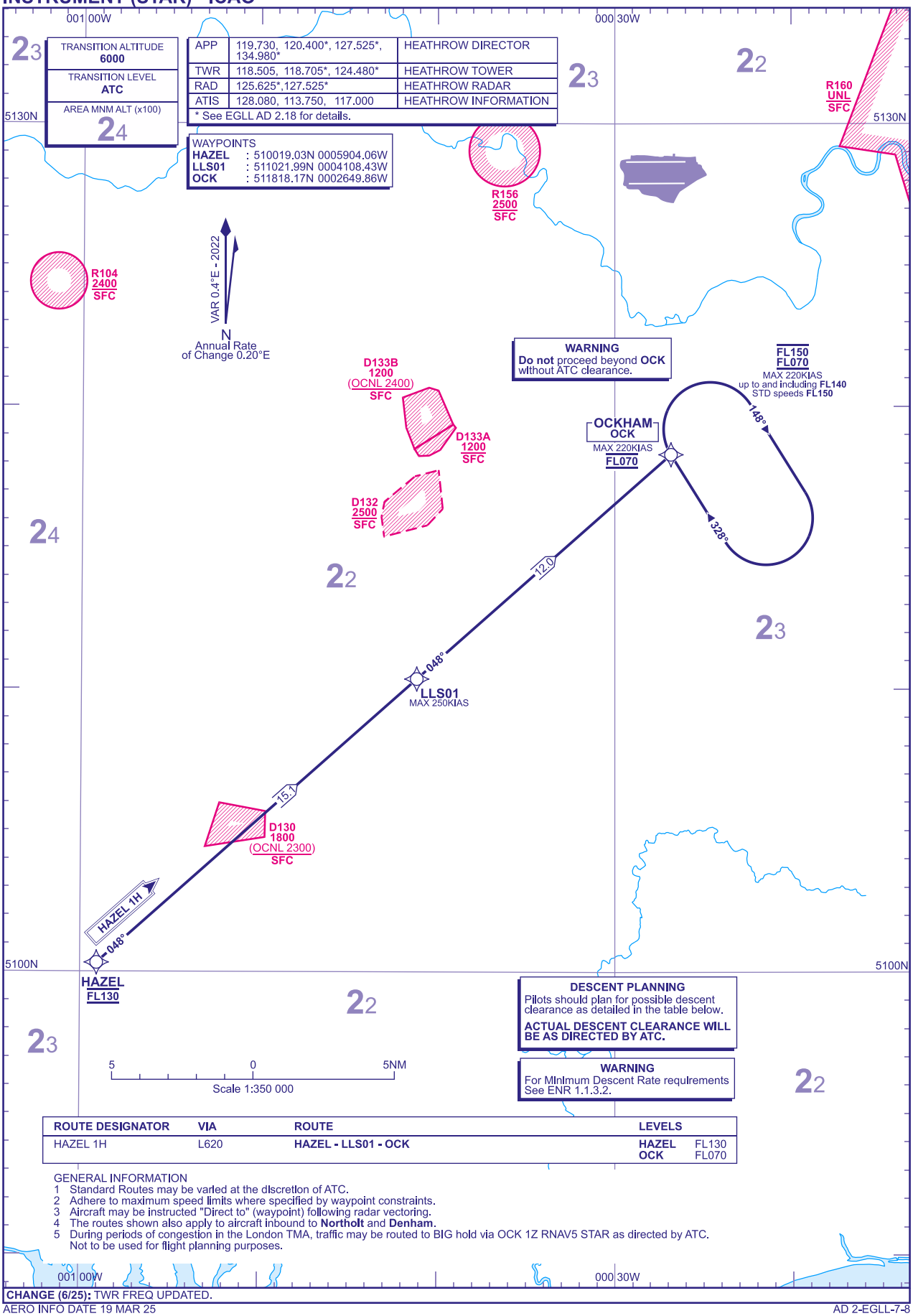
AERO INFO DATE 19 APR 25

AD 2-EGLL-7-7

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW HAZEL 1H



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
HAZEL 1H	L620	HAZEL - LLS01 - OCK	HAZEL OCK	FL130 FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
4 The routes shown also apply to aircraft inbound to **Northolt** and **Denham**.
5 During periods of congestion in the London TMA, traffic may be routed to BIG hold via OCK 1Z RNAV5 STAR as directed by ATC. Not to be used for flight planning purposes.

CHANGE (6/25): TWR FREQ UPDATED.

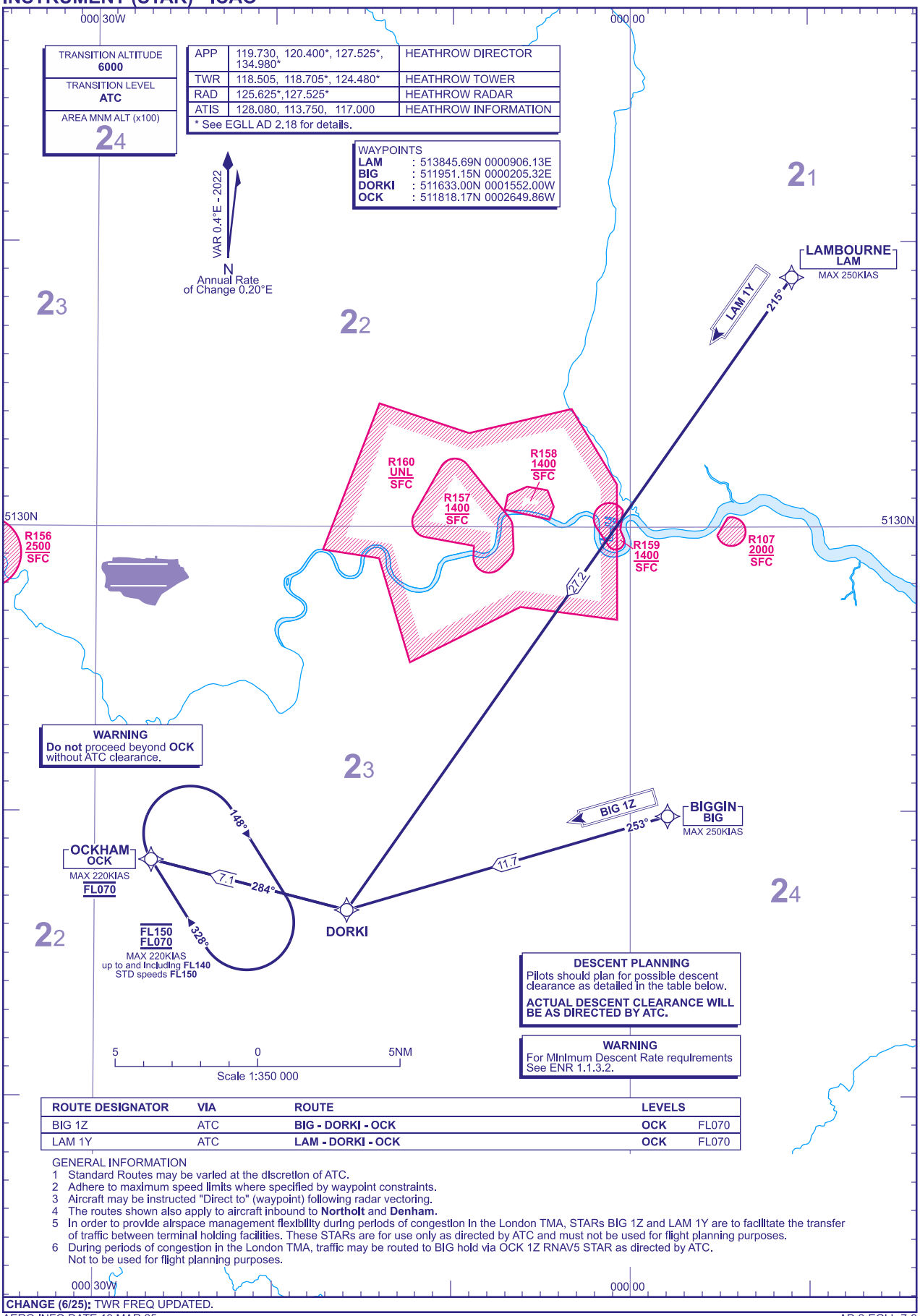
AERO INFO DATE 19 MAR 25

AD 2-EGLL-7-8

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
BIG 1Z LAM 1Y



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
BIG 1Z	ATC	BIG - DORKI - OCK	OCK	FL070
LAM 1Y	ATC	LAM - DORKI - OCK	OCK	FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
4 The routes shown also apply to aircraft inbound to **Northolt** and **Denham**.
5 In order to provide airspace management flexibility during periods of congestion in the London TMA, STARs BIG 1Z and LAM 1Y are to facilitate the transfer of traffic between terminal holding facilities. These STARs are for use only as directed by ATC and must not be used for flight planning purposes.
6 During periods of congestion in the London TMA, traffic may be routed to BIG hold via OCK 1Z RNAV5 STAR as directed by ATC. Not to be used for flight planning purposes.

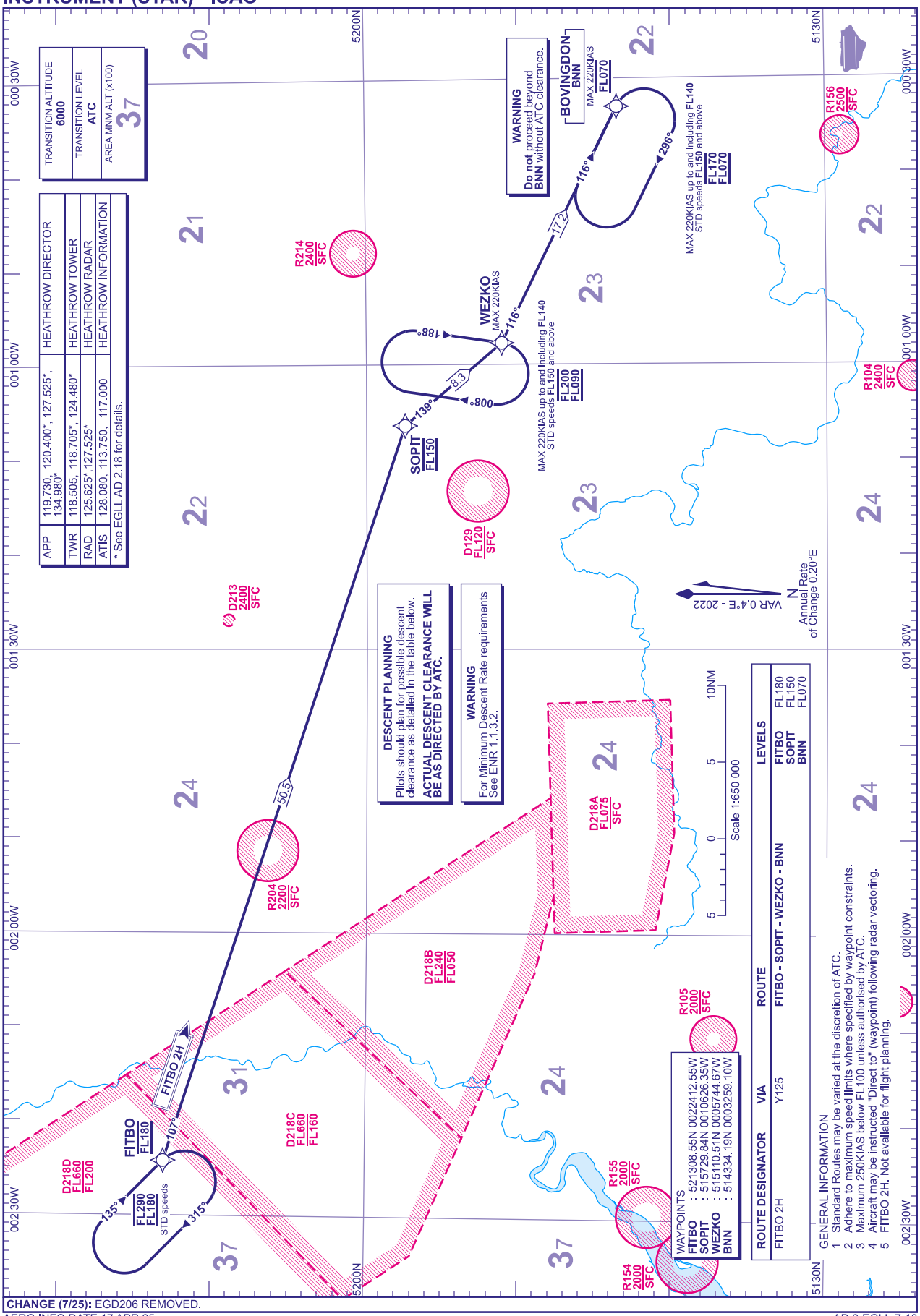
CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 19 MAR 25
AD 2-EGLL-7-9

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
FITBO 2H



CHANGE (7/25): EGD206 REMOVED.

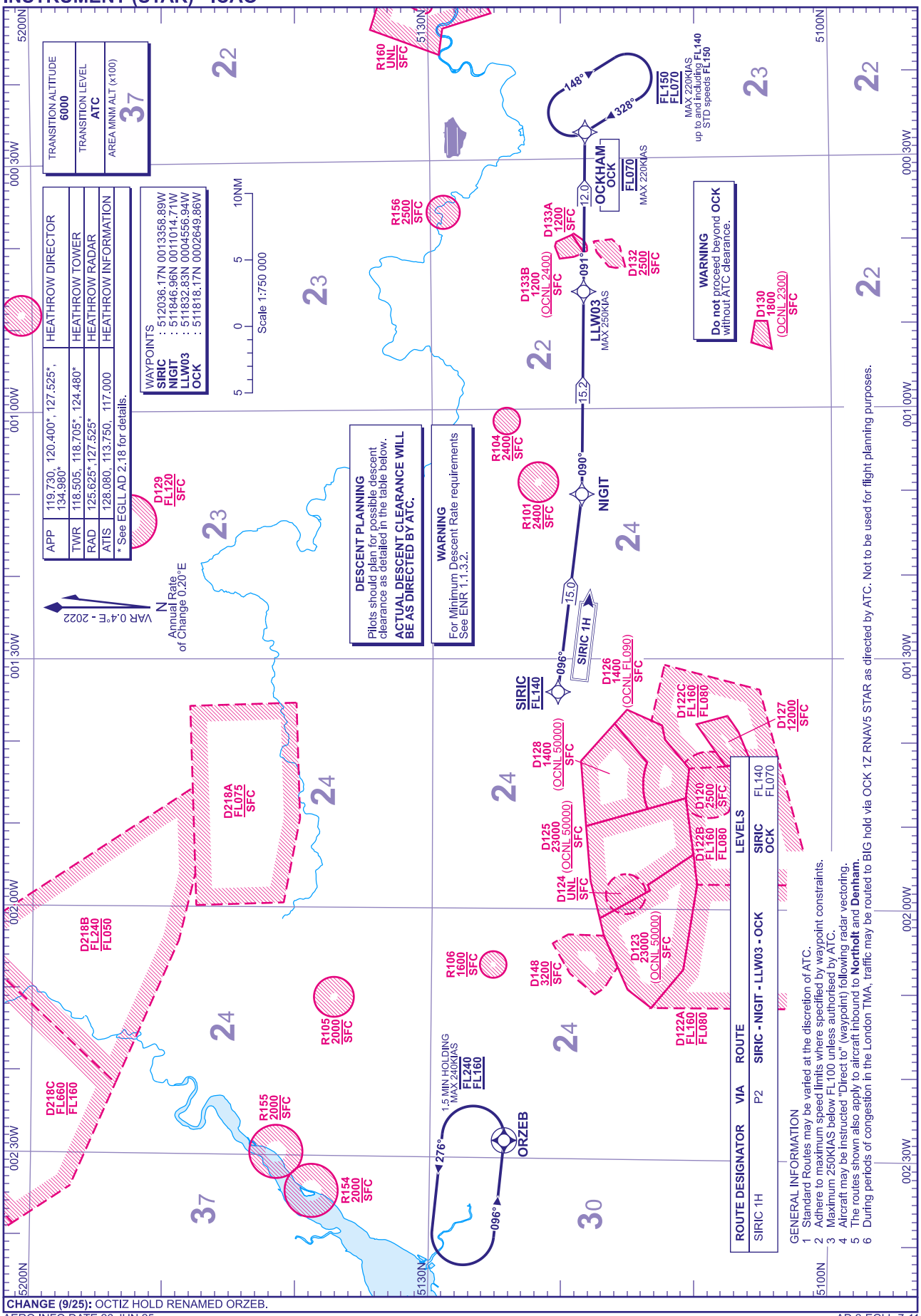
AERO INFO DATE 17 APR 25

AD 2-EGLL-7-10

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

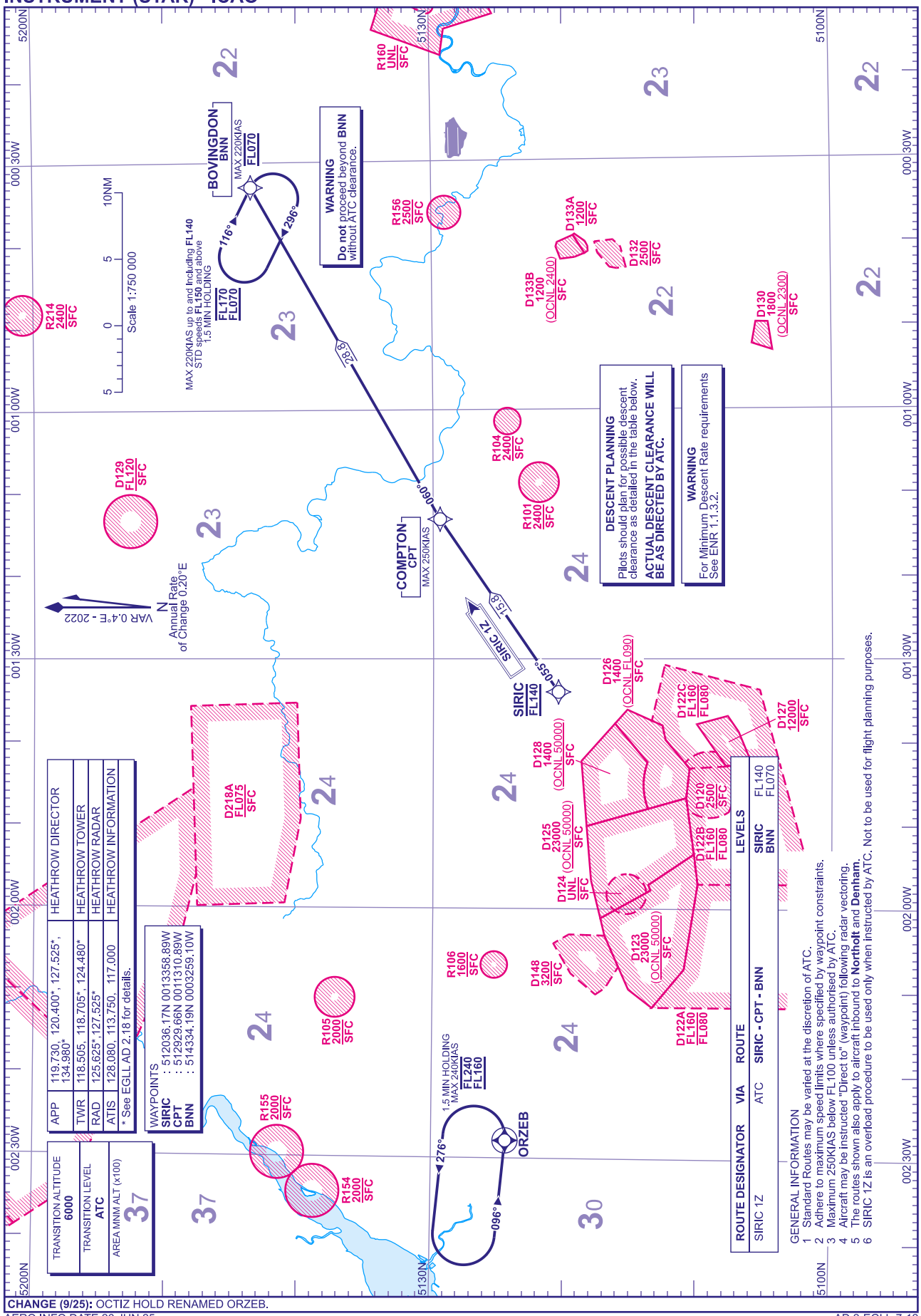
LONDON HEATHROW SIRIC 1H



RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON HEATHROW
SIRIC 1Z



CHANGE (9/25): OCTIZ HOLD RENAMED ORZEB.

AERO INFO DATE 26 JUN 25

AD 2-EGLL-7-12

Standard Instrument Arrival Coding Tables

LONDON HEATHROW OTMET 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OTMET1H	001	IF	OTMET	504055.06N 0023053.37W	N	-	-	-	-	FL270	-	RNAV1
OTMET1H	002	TF	SOKDU	503939.22N 0020133.06W	N	093° (093.7°)	0.4	18.7	LEFT	-	-	RNAV1
OTMET1H	003	TF	NEDUL	503958.00N 0013251.86W	N	088° (088.8°)	0.4	18.3	LEFT	FL210	-	RNAV1
OTMET1H	004	TF	BEGTO	504545.12N 0011407.99W	N	063° (063.9°)	0.4	13.2	LEFT	-	-	RNAV1
OTMET1H	005	TF	HAZEL	510019.03N 0005904.06W	N	033° (033.1°)	0.4	17.4	RIGHT	FL130	-	RNAV1
OTMET1H	006	TF	LLS01	511021.99N 0004108.43W	N	048° (048.2°)	0.4	15.1	-	-	-250	RNAV1
OTMET1H	007	TF	OCK	511818.17N 0002649.86W	N	048° (048.4°)	0.4	12.0	-	FL070	-220	RNAV1

LONDON HEATHROW ROXOG 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ROXOG1H	001	IF	ROXOG	501558.29N 0013344.41W	N	-	-	-	-	-	-	RNAV1
ROXOG1H	002	TF	AMTOD	503215.69N 0012544.46W	N	017° (017.4°)	0.4	17.1	RIGHT	-	-	RNAV1
ROXOG1H	003	TF	BEGTO	504545.12N 0011407.99W	N	028° (028.6°)	0.4	15.4	RIGHT	-	-	RNAV1
ROXOG1H	004	TF	HAZEL	510019.03N 0005904.06W	N	033° (033.1°)	0.4	17.4	RIGHT	FL130	-	RNAV1
ROXOG1H	005	TF	LLS01	511021.99N 0004108.43W	N	048° (048.2°)	0.4	15.1	-	-	-250	RNAV1
ROXOG1H	006	TF	OCK	511818.17N 0002649.86W	N	048° (048.4°)	0.4	12.0	-	FL070	-220	RNAV1

LONDON HEATHROW ALESO 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ALESO1H	001	IF	ALESO	503432.24N 0011331.50E	N	-	-	-	-	-	-	RNAV5
ALESO1H	002	TF	ROTNO	505126.07N 0004641.20E	N	314° (314.9°)	0.4	24.0	-	-	-	RNAV5
ALESO1H	003	TF	ETVAX	505806.99N 0003556.27E	N	314° (314.6°)	0.4	9.5	-	FL180	-	RNAV5
ALESO1H	004	TF	TIGER	510401.82N 0002621.54E	N	314° (314.4°)	0.4	8.5	-	-	-	RNAV5
ALESO1H	005	TF	LLE01	511113.96N 0001521.68E	N	316° (316.2°)	0.4	10.0	-	-	-250	RNAV5
ALESO1H	006	TF	BIG	511951.15N 0000205.32E	N	316° (316.1°)	0.4	12.0	-	FL070	-220	RNAV5

LONDON HEATHROW LAM 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAM1X	001	IF	LAM	513845.69N 0000906.13E	N	-	-	-	-	-	-250	RNAV5
LAM1X	002	TF	HILLY	512006.04N 0001437.38E	Y	169° (169.5°)	0.4	19.0	RIGHT	-	-220	RNAV5
LAM1X	003	CF	BIG	511951.15N 0000205.32E	N	302° (302.3°)	0.4	-	-	FL070	-220	RNAV5

CHANGE (1/25): ALESO 1H MAG TRACK CORRECTION ALESO-ROTNO LEG.
AERO INFO DATE 05 NOV 24

Standard Instrument Arrival Coding Tables

LONDON HEATHROW TANET 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TANET1Z	001	IF	TANET	512658.00N 0005531.99E	N	-	-	-	-	-	-	RNAV5
TANET1Z	002	TF	DET	511814.41N 0003550.19E	N	234° (234.8°)	0.4	15.1	RIGHT	-	-	RNAV5
TANET1Z	003	TF	LLE02	511857.68N 0002109.87E	N	274° (274.6°)	0.4	9.2	-	-	-250	RNAV5
TANET1Z	004	TF	BIG	511951.15N 0000205.32E	N	274° (274.4°)	0.4	12.0	-	FL070	-220	RNAV5

LONDON HEATHROW OCK 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OCK1Z	001	IF	OCK	511818.17N 0002649.86W	N	-	-	-	-	-	-	RNAV5
OCK1Z	002	TF	DORKI	511633.00N 0001552.00W	N	104° (104.2°)	0.4	7.1	LEFT	-	-250	RNAV5
OCK1Z	003	TF	HILLY	512006.04N 0001437.38E	Y	079° (079.3°)	0.4	19.5	RIGHT	-	-220	RNAV5
OCK1Z	004	CF	BIG	511951.15N 0000205.32E	N	302° (302.3°)	0.4	-	-	FL070	-220	RNAV5

LONDON HEATHROW NUGRA 2H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NUGRA2H	001	IF	NUGRA	530146.43N 0021813.52W	N	-	-	-	-	-	-	RNAV5
NUGRA2H	002	TF	TOBID	521259.55N 0012759.21W	N	147° (147.6°)	0.4	57.7	LEFT	FL200	-	RNAV5
NUGRA2H	003	TF	SOPIT	515729.84N 0010626.35W	N	139° (139.3°)	0.4	20.4	-	FL150	-	RNAV5
NUGRA2H	004	TF	WEZKO	515110.51N 0005744.67W	N	139° (139.6°)	0.4	8.3	LEFT	-	-220	RNAV5
NUGRA2H	005	TF	BNN	514334.19N 0003259.10W	N	116° (116.2°)	0.4	17.2	-	FL070	-220	RNAV5

LONDON HEATHROW LAM 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAM1Z	001	IF	LAM	513845.69N 0000906.13E	N	-	-	-	-	-	-250	RNAV5
LAM1Z	002	TF	DONNA	514200.38N 0004437.04W	Y	275° (275.9°)	0.4	33.6	RIGHT	-	-220	RNAV5
LAM1Z	003	CF	BNN	514334.19N 0003259.10W	N	116° (116.5°)	0.4	-	-	FL070	-220	RNAV5

CHANGE (6/25): WCO NDB REPLACED WITH WEZKO. NUGRA STAR DESIGNATOR REVISED.
AERO INFO DATE 01 APR 25

Standard Instrument Arrival Coding Tables

LONDON HEATHROW HON 2H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HON2H	001	IF	HON	522124.04N 0013949.41W	N	-	-	-	-	-	-	RNAV5
HON2H	002	TF	TOBID	521259.55N 0012759.21W	N	139° (139.1°)	0.4	11.1	-	-	-	RNAV5
HON2H	003	TF	SOPIT	515729.84N 0010626.35W	N	139° (139.3°)	0.4	20.4	-	FL150	-	RNAV5
HON2H	004	TF	WEZKO	515110.51N 0005744.67W	N	139° (139.6°)	0.4	8.3	LEFT	-	-220	RNAV5
HON2H	005	TF	BNN	514334.19N 0003259.10W	N	116° (116.2°)	0.4	17.2	-	FL070	-220	RNAV5

LONDON HEATHROW BARMI 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BARMI1H	001	IF	BARMI	522841.76N 0023413.73E	N	-	-	-	-	FL300	-	RNAV5
BARMI1H	002	TF	SONOG	520619.71N 0021610.08E	N	206° (206.5°)	0.4	25.0	RIGHT	-	-	RNAV5
BARMI1H	003	TF	LOGAN	514451.32N 0013642.58E	N	228° (228.9°)	0.4	32.5	RIGHT	FL250	-	RNAV5
BARMI1H	004	TF	SABER	514213.76N 0005658.19E	N	264° (264.2°)	0.4	24.9	-	FL160	-	RNAV5
BARMI1H	005	TF	BRASO	514106.57N 0004100.03E	N	263° (263.7°)	0.4	10.0	-	-	-	RNAV5
BARMI1H	006	TF	WESUL	514015.29N 0002909.27E	N	263° (263.5°)	0.4	7.4	-	-	-250	RNAV5
BARMI1H	007	TF	LAM	513845.69N 0000906.13E	N	263° (263.3°)	0.4	12.6	-	FL070	-220	RNAV5

LONDON HEATHROW LOGAN 2H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOGAN2H	001	IF	LOGAN	514451.32N 0013642.58E	N	-	-	-	-	FL250	-	RNAV5
LOGAN2H	002	TF	SABER	514213.76N 0005658.19E	N	264° (264.2°)	0.4	24.9	-	FL160	-	RNAV5
LOGAN2H	003	TF	BRASO	514106.57N 0004100.03E	N	263° (263.7°)	0.4	10.0	-	-	-	RNAV5
LOGAN2H	004	TF	WESUL	514015.29N 0002909.27E	N	263° (263.5°)	0.4	7.4	-	-	-250	RNAV5
LOGAN2H	005	TF	LAM	513845.69N 0000906.13E	N	263° (263.3°)	0.4	12.6	-	FL070	-220	RNAV5

LONDON HEATHROW TOBID 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TOBID1X	001	IF	TOBID	521259.55N 0012759.21W	N	-	-	-	-	-	-	RNAV5
TOBID1X	002	TF	WOD	512710.02N 0005243.68W	N	154° (154.3°)	0.4	50.8	LEFT	-	-	RNAV5
TOBID1X	003	TF	LLW02	512403.91N 0004336.89W	N	118° (118.5°)	0.4	6.5	-	-	-250	RNAV5
TOBID1X	004	TF	OCK	511818.17N 0002649.86W	N	118° (118.6°)	0.4	12.0	-	FL070	-220	RNAV5

CHANGE (6/25): WCO NDB REPLACED WITH WEZKO. HON STAR DESIGNATOR REVISED.
AERO INFO DATE 01 APR 25

Standard Instrument Arrival Coding Tables

LONDON HEATHROW HAZEL 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HAZEL1H	001	IF	HAZEL	510019.03N 0005904.06W	N	-	-	-	-	FL130	-	RNAV5
HAZEL1H	002	TF	LLS01	511021.99N 0004108.43W	N	048° (048.2°)	0.4	15.1	-	-	-250	RNAV5
HAZEL1H	003	TF	OCK	511818.17N 0002649.86W	N	048° (048.4°)	0.4	12.0	-	FL070	-220	RNAV5

LONDON HEATHROW BIG 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BIG1Z	001	IF	BIG	511951.15N 0000205.32E	N	-	-	-	-	-	-250	RNAV5
BIG1Z	002	TF	DORKI	511633.00N 0001552.00W	N	253° (253.8°)	0.4	11.7	RIGHT	-	-	RNAV5
BIG1Z	003	TF	OCK	511818.17N 0002649.86W	N	284° (284.4°)	0.4	7.1	-	FL070	-220	RNAV5

LONDON HEATHROW LAM 1Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAM1Y	001	IF	LAM	513845.69N 0000906.13E	N	-	-	-	-	-	-250	RNAV5
LAM1Y	002	TF	DORKI	511633.00N 0001552.00W	N	215° (215.2°)	0.4	27.2	RIGHT	-	-	RNAV5
LAM1Y	003	TF	OCK	511818.17N 0002649.86W	N	284° (284.4°)	0.4	7.1	-	FL070	-220	RNAV5

LONDON HEATHROW FITBO 2H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FITBO2H	001	IF	FITBO	521308.55N 0022412.55W	N	-	-	-	-	FL180	-	RNAV1
FITBO2H	002	TF	SOPIT	515729.84N 0010626.35W	N	107° (107.6°)	0.4	50.5	RIGHT	FL150	-	RNAV1
FITBO2H	003	TF	WEZKO	515110.51N 0005744.67W	N	139° (139.6°)	0.4	8.3	LEFT	-	-220	RNAV1
FITBO2H	004	TF	BNN	514334.19N 0003259.10W	N	116° (116.2°)	0.4	17.2	-	FL070	-220	RNAV1

CHANGE (6/25): WCO NDB REPLACED WITH WEZKO. FITBO STAR DESIGNATOR REVISED.
AERO INFO DATE 01 APR 25

Standard Instrument Arrival Coding Tables

LONDON HEATHROW SIRIC 1H

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SIRIC1H	001	IF	SIRIC	512036.17N 0013358.89W	N	-	-	-	-	FL140	-	RNAV1
SIRIC1H	002	TF	NIGIT	511846.96N 0011014.71W	N	096° (096.8°)	0.4	15.0	LEFT	-	-	RNAV1
SIRIC1H	003	TF	LLW03	511832.83N 0004556.94W	N	090° (090.7°)	0.4	15.2	-	-	-250	RNAV1
SIRIC1H	004	TF	OCK	511818.17N 0002649.86W	N	091° (091.0°)	0.4	12.0	-	FL070	-220	RNAV1

LONDON HEATHROW SIRIC 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SIRIC1Z	001	IF	SIRIC	512036.17N 0013358.89W	N	-	-	-	-	FL140	-	RNAV1
SIRIC1Z	002	TF	CPT	512929.66N 0011310.89W	N	055° (055.5°)	0.4	15.8	-	-	-250	RNAV1
SIRIC1Z	003	TF	BNN	514334.19N 0003259.10W	N	060° (060.4°)	0.4	28.8	-	FL070	-220	RNAV1

CHANGE (12/24): SPECIFICATION CHANGE.
AERO INFO DATE 18 SEP 24

RNAV Hold Coding Tables

LONDON HEATHROW BIG Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BIG	-	-	BIG	511951.15N 0000205.32E	Y	302° (302.3°)	0.4	1 MIN up to FL140. 1.5MIN FL150.	RIGHT	-FL150 +FL070	-220*	RNAV5

*up to and including FL140
STD speeds FL150

LONDON HEATHROW BNN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BNN	-	-	BNN	514334.19N 0003259.10W	Y	116° (116.5°)	0.4	1 MIN up to FL140. 1.5MIN FL150+.	RIGHT	-FL170 +FL070	-220*	RNAV1/ RNAV5

*up to and including FL140
STD speeds FL150 and above

LONDON HEATHROW BRASO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BRASO	-	-	BRASO	514106.57N 0004100.03E	Y	263° (263.0°)	0.4	1.5 MIN	LEFT	-FL240 +FL180	-240	RNAV5

LONDON HEATHROW FITBO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FITBO	-	-	FITBO	521308.55N 0022412.55W	Y	135° (135.5°)	0.4	1.5 MIN	RIGHT	-FL290 +FL180	-	RNAV1

LONDON HEATHROW HON Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HON	-	-	HON	522124.04N 0013949.41W	Y	144° (144.8°)	0.4	1.5 MIN	RIGHT	-FL350 +FL150	-240	RNAV5

LONDON HEATHROW LAM Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAM	-	-	LAM	513845.69N 0000906.13E	Y	263° (263.0°)	0.4	1 MIN up to FL140. 1.5MIN FL150+.	LEFT	-FL170 +FL070	-220*	RNAV5

*up to and including FL140
STD speeds FL150 and above

LONDON HEATHROW LOGAN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOGAN	-	-	LOGAN	514451.32N 0013642.58E	Y	289° (289.5°)	0.4	1 MIN up to FL140. 1.5MIN FL150+.	LEFT	-FL410 +FL100	-220*	RNAV5

*up to and including FL140
MAX 240KIAS FL150 and above

CHANGE (12/24): SPECIFICATION CHANGE.
AERO INFO DATE 23 SEP 24

RNAV Hold Coding Tables

LONDON HEATHROW OCK Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OCK	-	-	OCK	511818.17N 0002649.86W	Y	328° (328.5°)	0.4	1MIN up to FL140. 1.5MIN FL150.	RIGHT	-FL150 +FL070	-220*	RNAV1/ RNAV5

*up to and including FL140
STD speeds FL150

LONDON HEATHROW ORZEB Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ORZEB	-	-	ORZEB	512425.86N 0022753.73W	Y	096° (096.1°)	0.4	1.5MIN	LEFT	-FL240 +FL160	-240	RNAV1

LONDON HEATHROW SABER Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SABER	-	-	SABER	514213.76N 0005658.19E	Y	263° (263.0°)	0.4	1MIN up to FL140. 1.5MIN FL150+.	LEFT	-FL170 +FL130	-220*	RNAV5

*up to and including FL140
STD speeds FL150 and above

LONDON HEATHROW TIGER Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TIGER	-	-	TIGER	510401.82N 0002621.54E	Y	315° (315.9°)	0.4	1.5MIN	RIGHT	-FL240 +FL150	-	RNAV5

LONDON HEATHROW WEZKO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WEZKO	-	-	WEZKO	515110.51N 0005744.67W	Y	188° (188.4°)	0.4	1MIN up to FL140. 1.5MIN FL150+.	RIGHT	-FL200 +FL090	-220*	RNAV1/ RNAV5

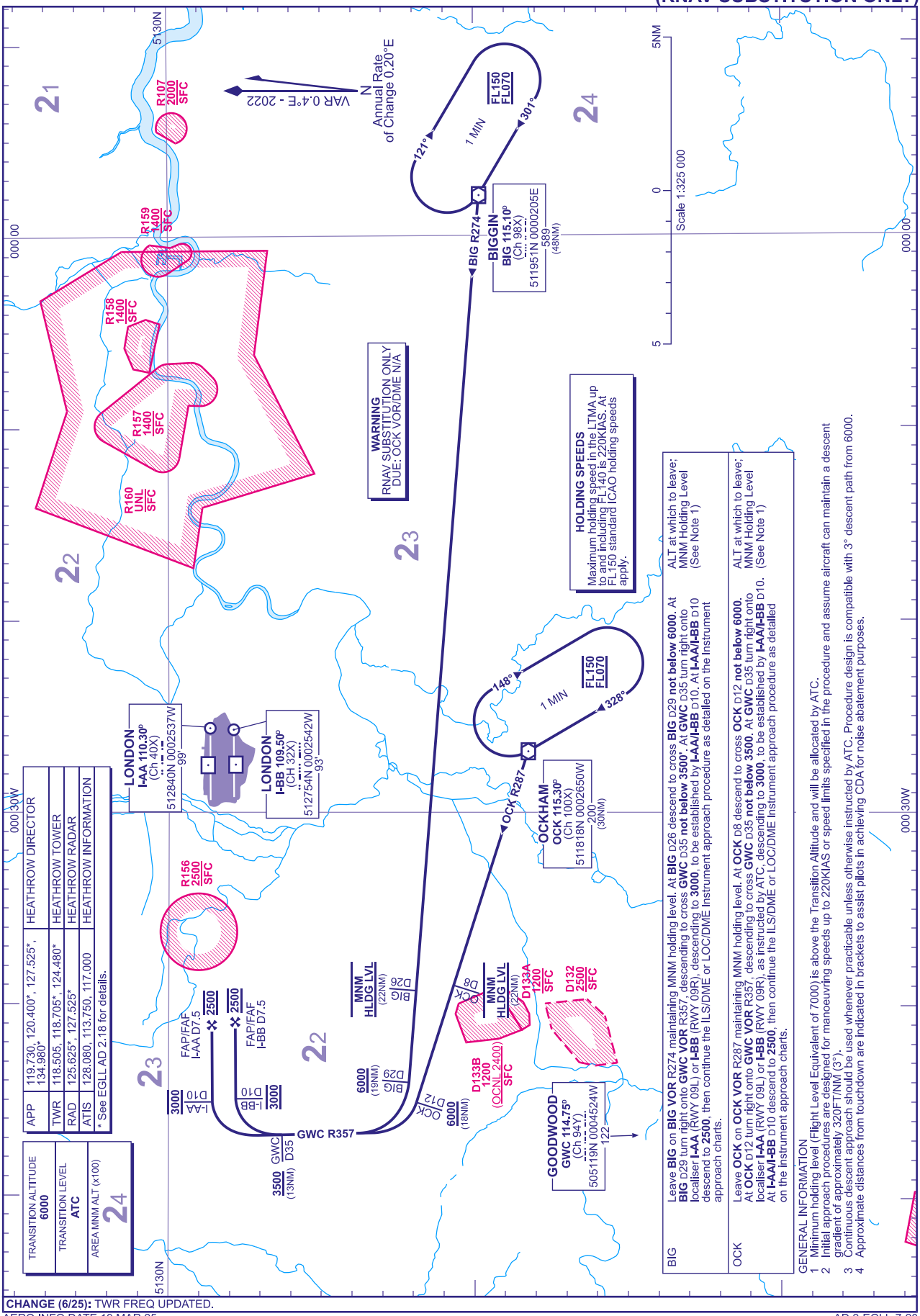
*up to and including FL140
STD speeds FL150 and above

CHANGE (9/25): OCTIZ HOLD REPLACED BY ORZEB HOLD..
AERO INFO DATE 26 JUN 25

INITIAL APPROACH PROCEDURES
ILS RWY 09L/R

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
via BIG and OCK
(RNAV SUBSTITUTION ONLY)



CHANGE (6/25): TWR FREQ UPDATED.

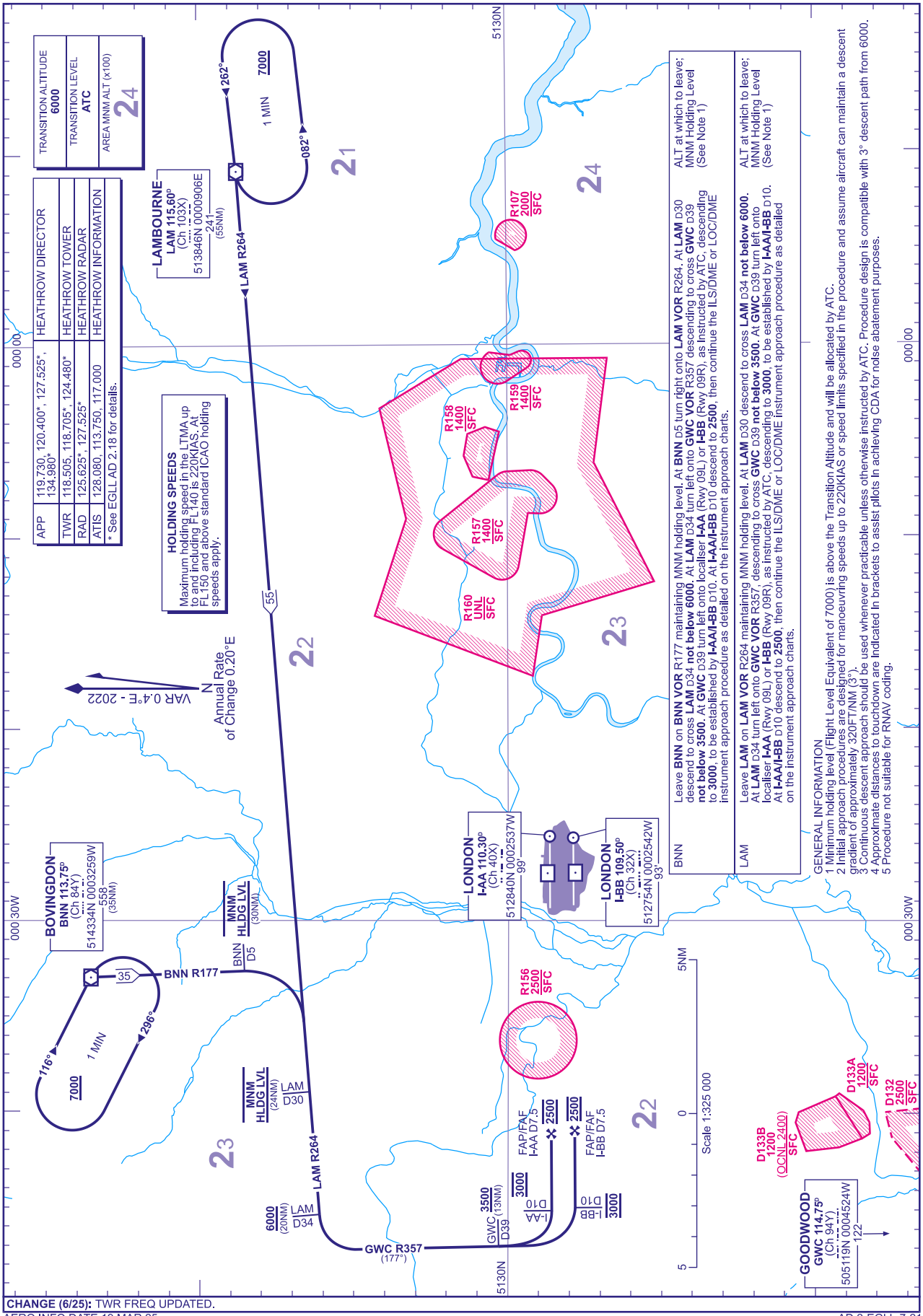
AERO INFO DATE 19 MAR 25

AD 2-EGLL-7-20

INITIAL APPROACH PROCEDURES
ILS RWY 09L/R Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
via BNN and LAM



CHANGE (6/25): TWR FREQ UPDATED.

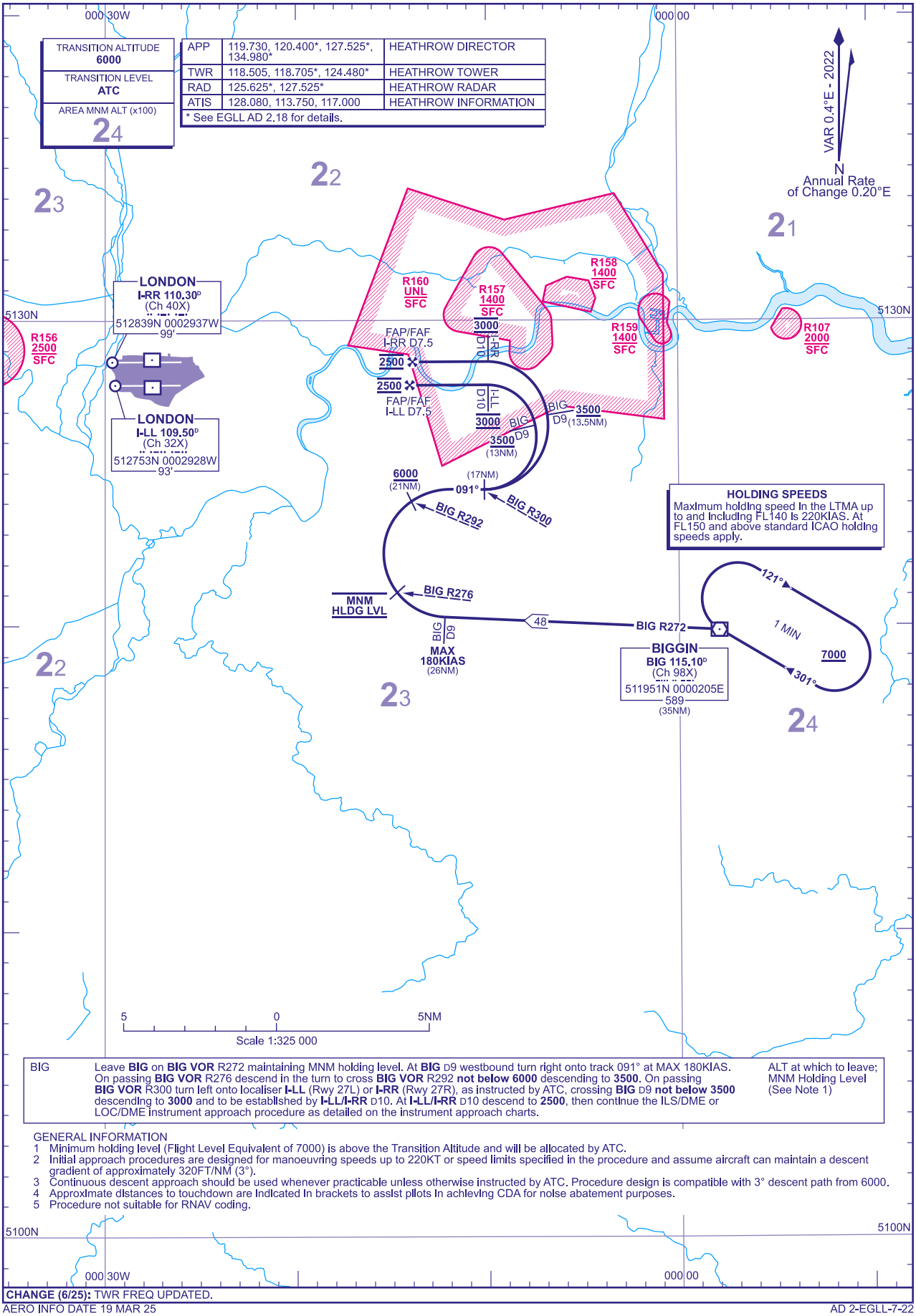
AERO INFO DATE 19 MAR 25

AD 2-EGLL-7-21

INITIAL APPROACH PROCEDURES
ILS RWY 27L/R Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
via BIG



BIG	Leave **BIG** on **BIG VOR** R272 maintaining MNM holding level. At **BIG** D9 westbound turn right onto track 091° at MAX 180KIAS. On passing **BIG VOR** R276 descend in the turn to cross **BIG VOR** R292 **not below 6000** descending to **3500**. On passing **BIG VOR** R300 turn left onto localiser **I-LL** (Rwy 27L) or **I-RR** (Rwy 27R), as instructed by ATC, crossing **BIG** D9 **not below 3500** descending to **3000** and to be established by **I-LL/I-RR** D10. At **I-LL/I-RR** D10 descend to **2500**, then continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the instrument approach charts.	ALT at which to leave; MNM Holding Level (See Note 1)

GENERAL INFORMATION
1 Minimum holding level (Flight Level Equivalent of 7000) is above the Transition Altitude and will be allocated by ATC.
2 Initial approach procedures are designed for manoeuvring speeds up to 220KT or speed limits specified in the procedure and assume aircraft can maintain a descent gradient of approximately 320FT/NM (3°).
3 Continuous descent approach should be used whenever practicable unless otherwise instructed by ATC. Procedure design is compatible with 3° descent path from 6000.
4 Approximate distances to touchdown are indicated in brackets to assist pilots in achieving CDA for noise abatement purposes.
5 Procedure not suitable for RNAV coding.

CHANGE (6/25): TWR FREQ UPDATED.

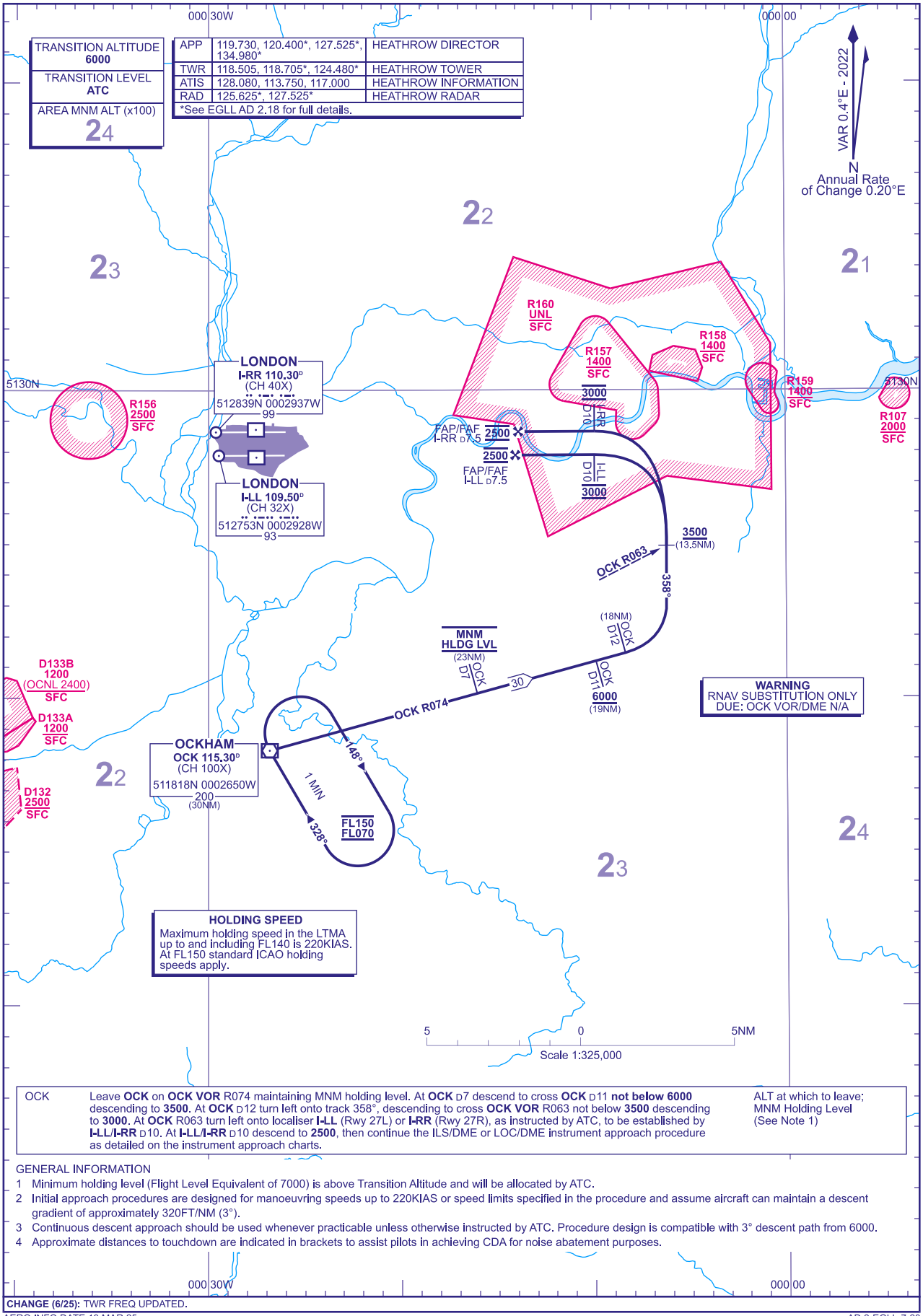
AERO INFO DATE 19 MAR 25

AD 2-EGLL-7-22

INITIAL APPROACH PROCEDURES
ILS RWY 27L/R

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW via OCK (RNAV SUBSTITUTION ONLY)



OCK	Leave **OCK** on **OCK VOR** R074 maintaining MNM holding level. At **OCK** D7 descend to cross **OCK** D11 **not below 6000** descending to **3500**. At **OCK** D12 turn left onto track 358°, descending to cross **OCK VOR** R063 not below **3500** descending to **3000**. At **OCK** R063 turn left onto localiser **I-LL** (Rwy 27L) or **I-RR** (Rwy 27R), as instructed by ATC, to be established by **I-LL**/**I-RR** D10. At **I-LL**/**I-RR** D10 descend to **2500**, then continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the instrument approach charts.	ALT at which to leave; MNM Holding Level (See Note 1)

GENERAL INFORMATION

1 Minimum holding level (Flight Level Equivalent of 7000) is above Transition Altitude and will be allocated by ATC.
2 Initial approach procedures are designed for manoeuvring speeds up to 220KIAS or speed limits specified in the procedure and assume aircraft can maintain a descent gradient of approximately 320FT/NM (3°).
3 Continuous descent approach should be used whenever practicable unless otherwise instructed by ATC. Procedure design is compatible with 3° descent path from 6000.
4 Approximate distances to touchdown are indicated in brackets to assist pilots in achieving CDA for noise abatement purposes.

CHANGE (6/25): TWR FREQ UPDATED.

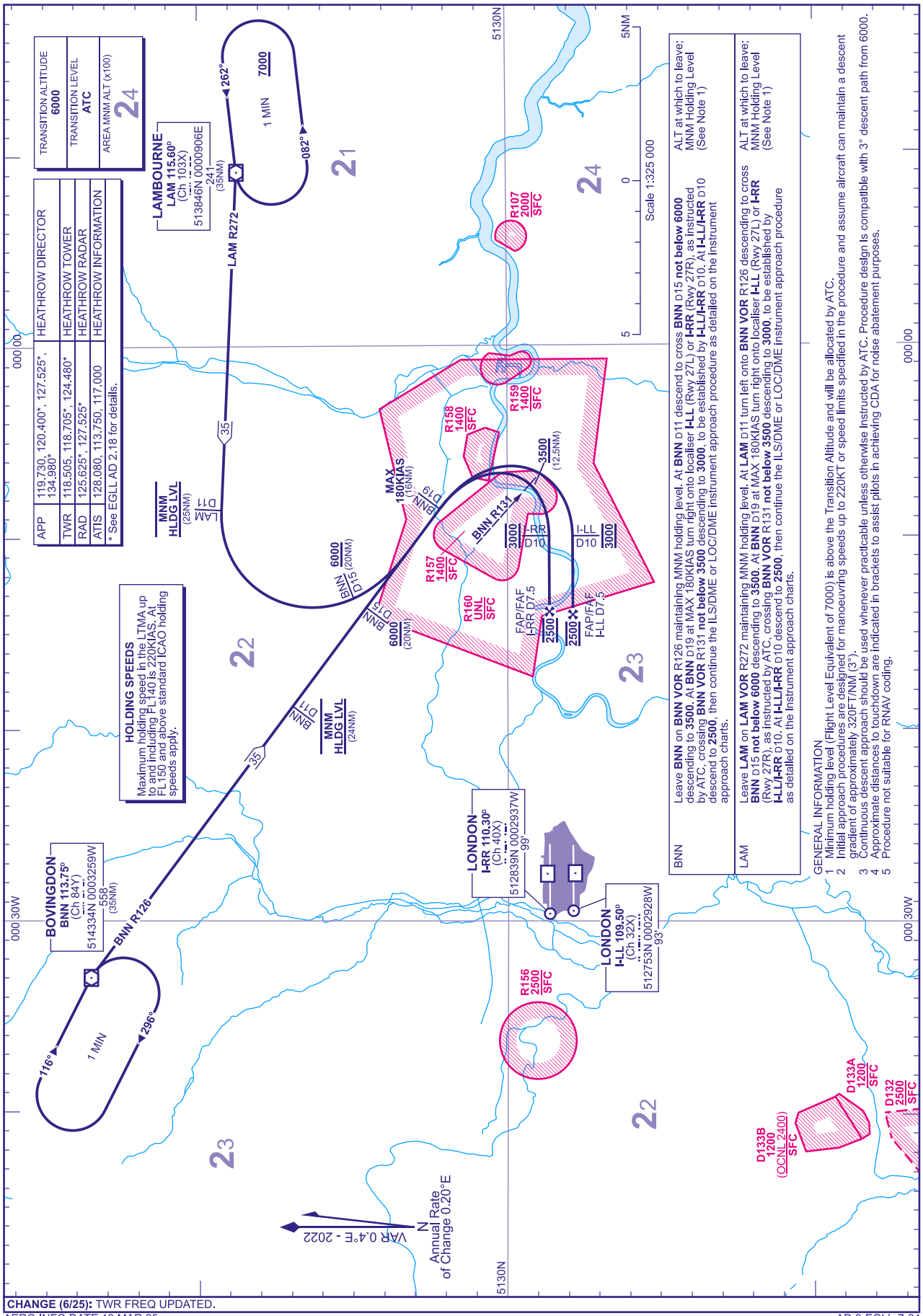
AERO INFO DATE 19 MAR 25

AD 2-EGLL-7-23

INITIAL APPROACH PROCEDURES
ILS RWY 27L/R Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
via BNN and LAM



CHANGE (6/25): TWR FREQ UPDATED.

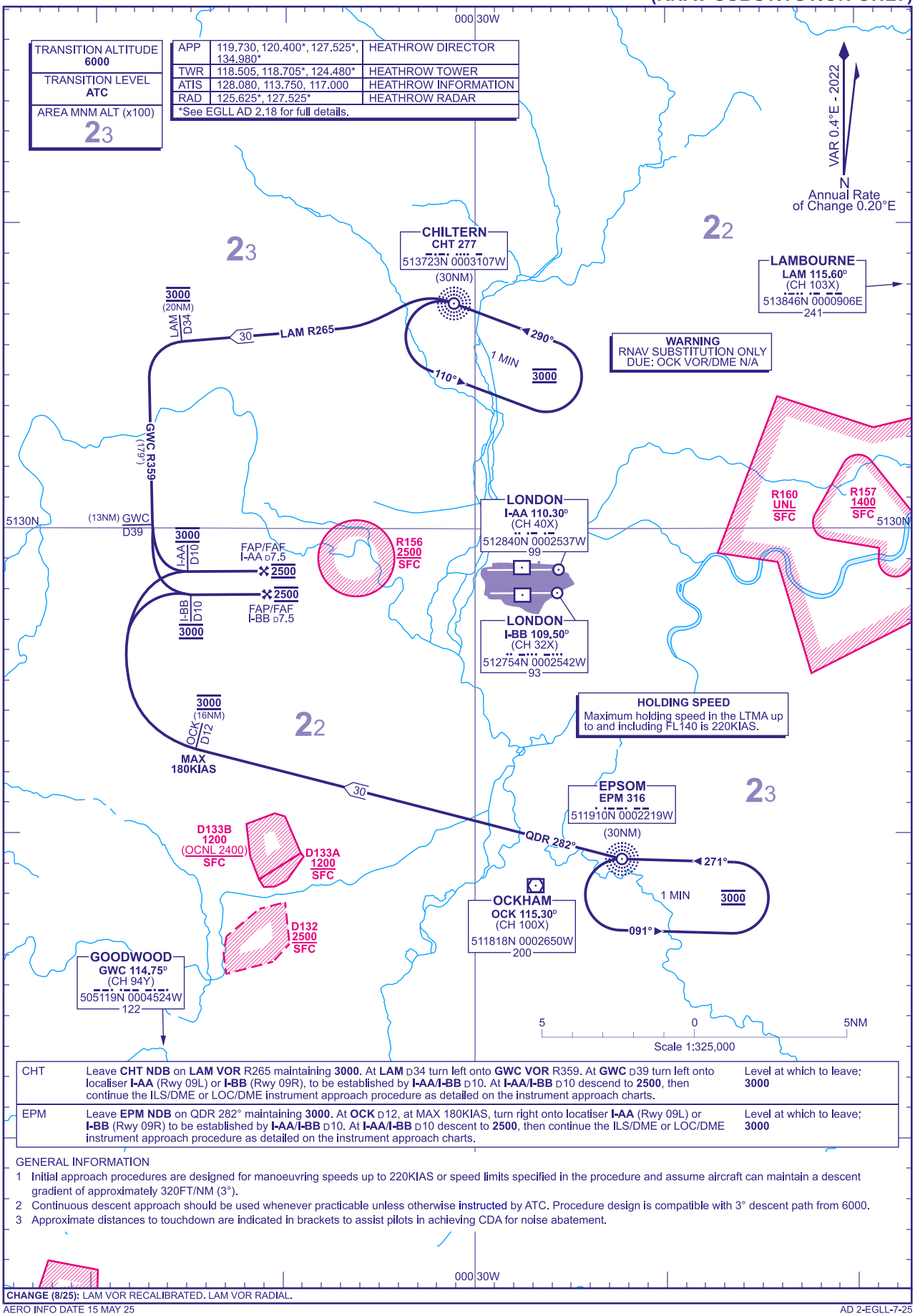
AERO INFO DATE 19 MAR 25

AD 2-EGLL-7-24

INITIAL APPROACH PROCEDURES
ILS RWY 09L/R

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
via CHT and EPM
(RNAV SUBSTITUTION ONLY)



CHT	Leave **CHT NDB** on **LAM VOR** R265 maintaining **3000**. At **LAM** D34 turn left onto **GWC VOR** R359. At **GWC** D39 turn left onto localiser **I-AA** (Rwy 09L) or **I-BB** (Rwy 09R), to be established by **I-AA/I-BB** D10. At **I-AA/I-BB** D10 descend to **2500**, then continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the instrument approach charts.	Level at which to leave; **3000**
EPM	Leave **EPM NDB** on QDR 282° maintaining **3000**. At **OCK** D12, at MAX 180KIAS, turn right onto localiser **I-AA** (Rwy 09L) or **I-BB** (Rwy 09R) to be established by **I-AA/I-BB** D10. At **I-AA/I-BB** D10 descent to **2500**, then continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the instrument approach charts.	Level at which to leave; **3000**

GENERAL INFORMATION

1 Initial approach procedures are designed for manoeuvring speeds up to 220KIAS or speed limits specified in the procedure and assume aircraft can maintain a descent gradient of approximately 320FT/NM (3°).
2 Continuous descent approach should be used whenever practicable unless otherwise instructed by ATC. Procedure design is compatible with 3° descent path from 6000.
3 Approximate distances to touchdown are indicated in brackets to assist pilots in achieving CDA for noise abatement.

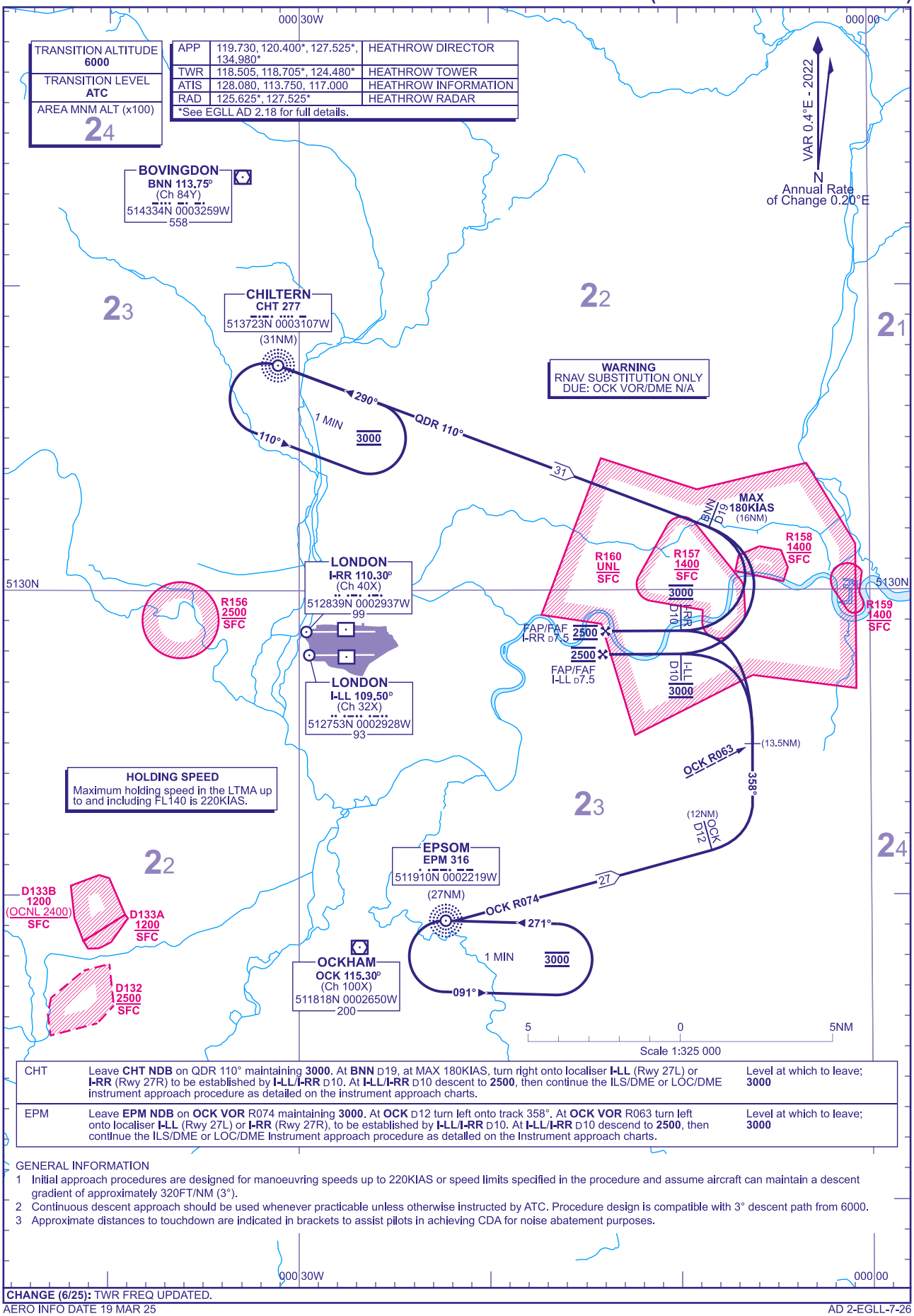
CHANGE (8/25): LAM VOR RECALIBRATED. LAM VOR RADIAL.

AERO INFO DATE 15 MAY 25

INITIAL APPROACH PROCEDURES
ILS RWY 27L/R

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON HEATHROW
via CHT and EPM
(RNAV SUBSTITUTION ONLY)



CHT	Leave **CHT NDB** on QDR 110° maintaining **3000**. At **BNN** D19, at MAX 180KIAS, turn right onto localiser **I-LL** (Rwy 27L) or **I-RR** (Rwy 27R) to be established by **I-LL**/**I-RR** D10. At **I-LL**/**I-RR** D10 descent to **2500**, then continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the instrument approach charts.	Level at which to leave; **3000**
EPM	Leave **EPM NDB** on **OCK VOR** R074 maintaining **3000**. At **OCK** D12 turn left onto track 358°. At **OCK VOR** R063 turn left onto localiser **I-LL** (Rwy 27L) or **I-RR** (Rwy 27R), to be established by **I-LL**/**I-RR** D10. At **I-LL**/**I-RR** D10 descend to **2500**, then continue the ILS/DME or LOC/DME Instrument approach procedure as detailed on the Instrument approach charts.	Level at which to leave; **3000**

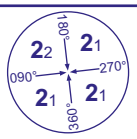
GENERAL INFORMATION
1 Initial approach procedures are designed for manoeuvring speeds up to 220KIAS or speed limits specified in the procedure and assume aircraft can maintain a descent gradient of approximately 320FT/NM (3°).
2 Continuous descent approach should be used whenever practicable unless otherwise instructed by ATC. Procedure design is compatible with 3° descent path from 6000.
3 Approximate distances to touchdown are indicated in brackets to assist pilots in achieving CDA for noise abatement purposes.

CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 19 MAR 25

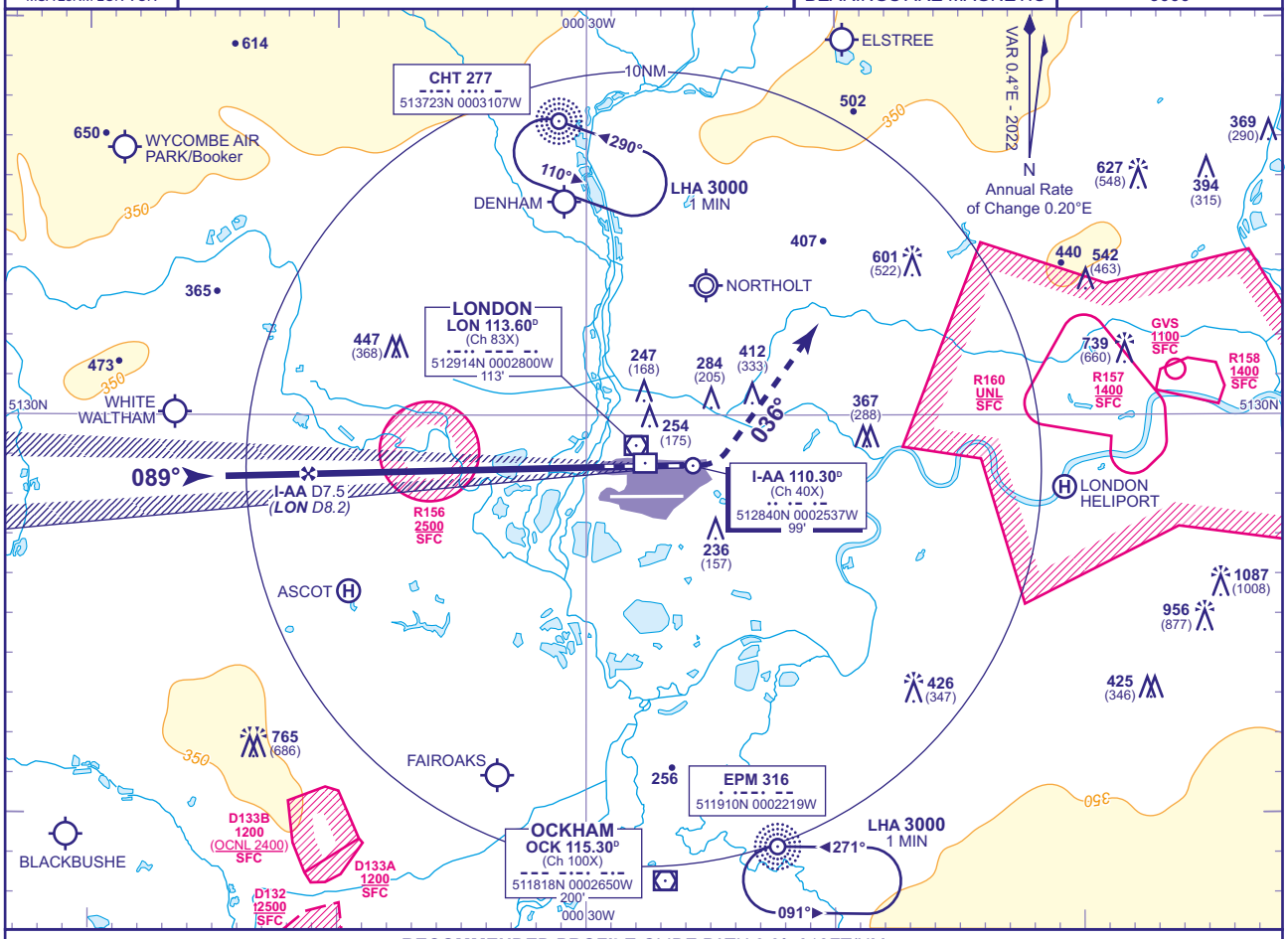
INSTRUMENT APPROACH CHART - ICAO

LONDON HEATHROW
ILS/DME I-AA
RWY 09L
(ACFT CAT A,B,C,D)



APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	79
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION 1087 AMSL (1008) (ABOVE THR)	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

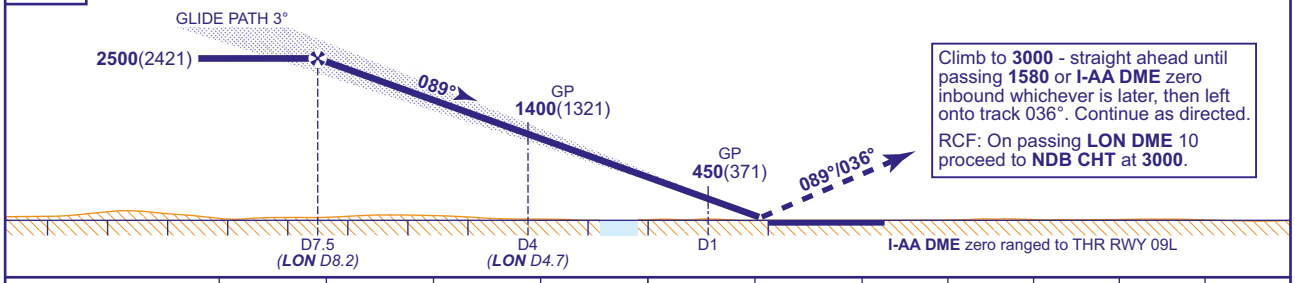
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3.0°, 318FT/NM

DME I-AA	7	6	5	4	3	2
ALT(HGT)	**2360**(2281)	**2040**(1961)	**1720**(1641)	**1400**(1321)	**1080**(1001)	**770**(691)

RDH 51



Climb to **3000** - straight ahead until passing **1580** or **I-AA DME** zero inbound whichever is later, then left onto track 036°. Continue as directed.

RCF: On passing **LON DME** 10 proceed to **NDB CHT** at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**222**(143)	**234**(155)	**248**(169)	**267**(188)
	CAT II	**134**(55)	**145**(66)	**158**(79)	**174**(95)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-AA
Advise ATC. Equivalent radar ranges will be provided when established on the localiser approaching the nominal FAP and 4NM points.

NOTES 1 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
2 Ranging information is provided by ILS-dedicated DME facilities. DME values derived to the nearest 0.1NM from VOR DME LON are also provided for the FAP and 4NM check altitude/height.

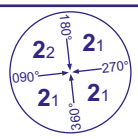
CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

AD 2-EGLL-8-1

INSTRUMENT APPROACH CHART - ICAO

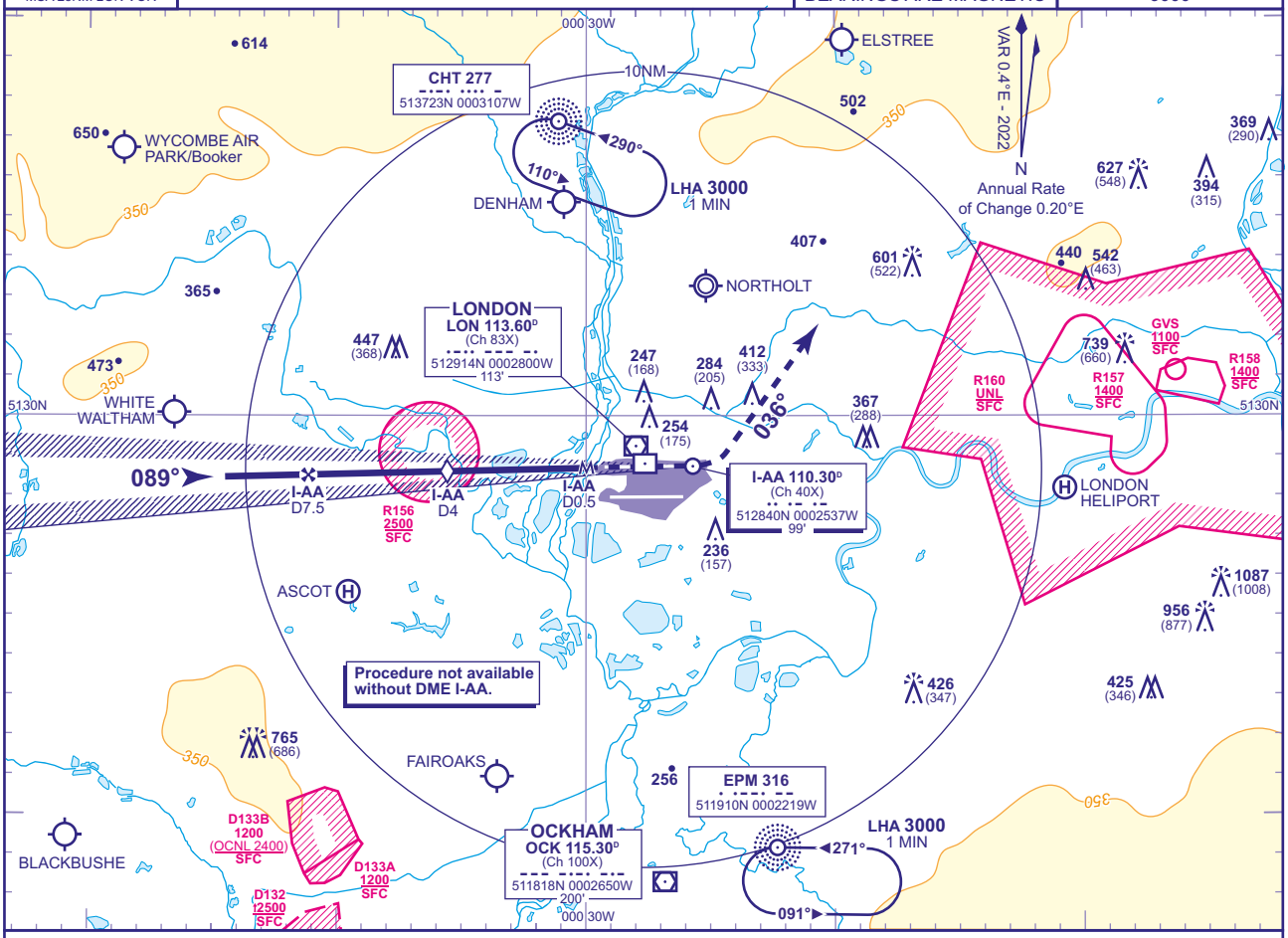
LONDON HEATHROW
LOC/DME I-AA
RWY 09L
(ACFT CAT A,B,C,D)



MSA 25NM LON VOR

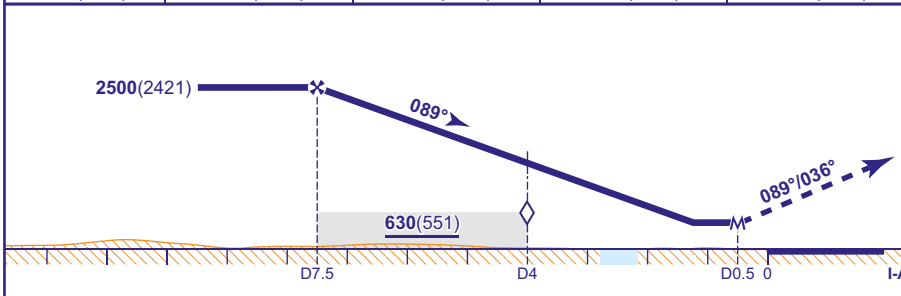
APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	79
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION **1087 AMSL** (1008) (ABOVE THR)	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-AA	7	6	5	4 **(SDF)**	3	2
ALT(HGT)	**2360**(2281)	**2040**(1961)	**1720**(1641)	**1400**(1321)	**1080**(1001)	**770**(691)



I-AA DME zero ranged to THR RWY 09L

MAPt I-AA DME 0.5

Climb straight ahead: on passing **1580** or **I-AA DME** zero inbound whichever is the later, turn left onto track 036° climbing to **3000** then continue as directed.

RADIO FAILURE: On passing **LON DME** 10 proceed to **NDB CHT** at **3000**.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**480**(401)	**480**(401)	**480**(401)	**480**(401)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES 1 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
2 All pilots must follow and adhere to recommended profiles.

CHANGE (6/25): TWR FREQ UPDATED.

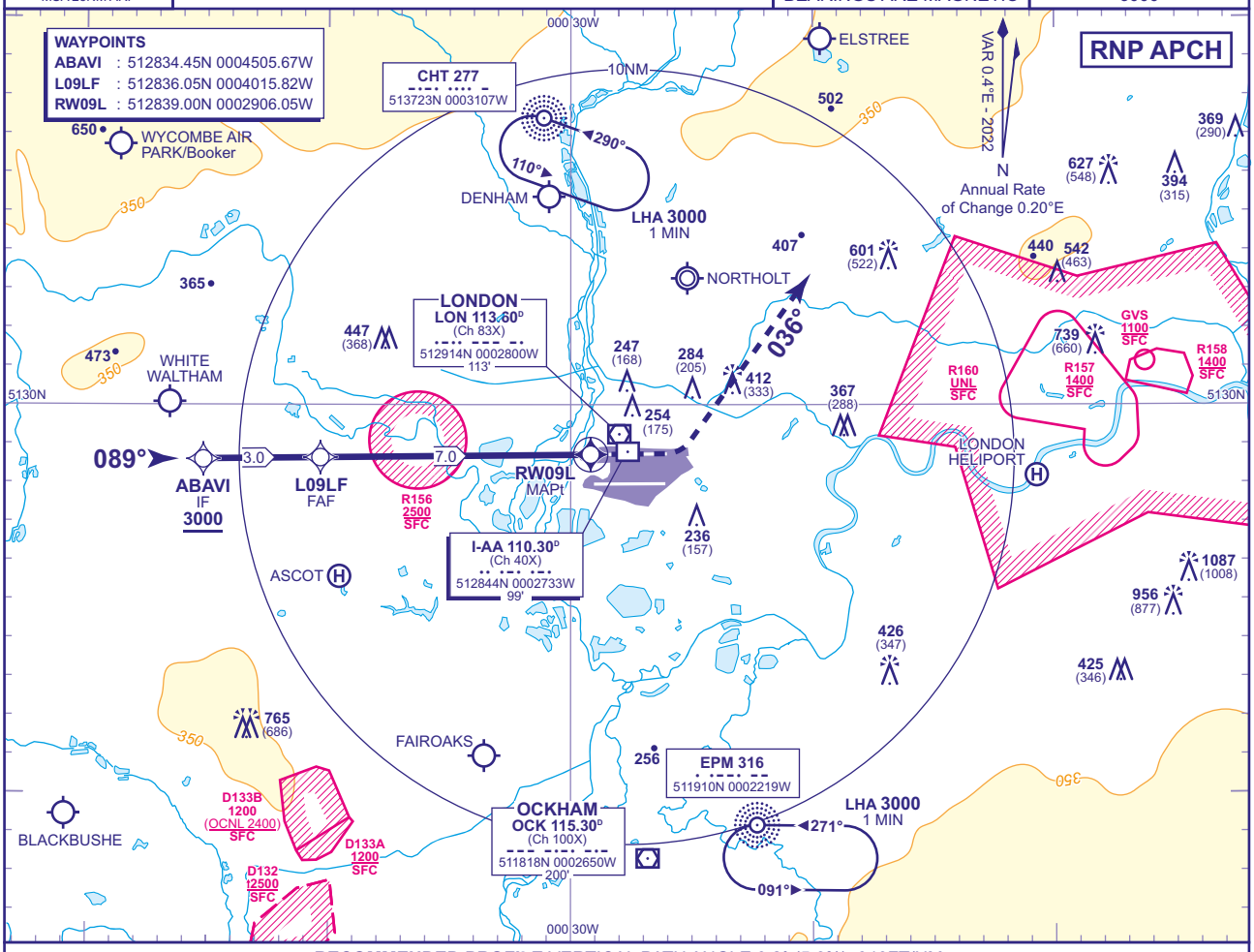
AERO INFO DATE 21 MAR 25

AD 2-EGLL-8-2

INSTRUMENT APPROACH CHART - ICAO

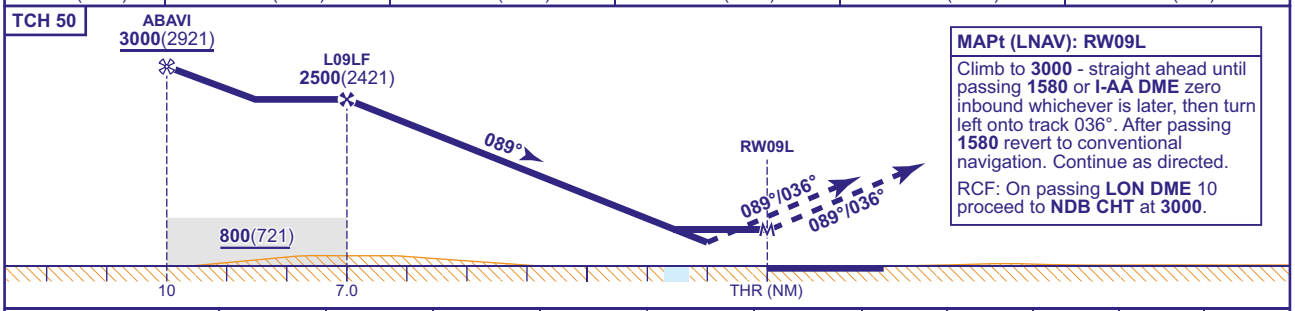
LONDON HEATHROW
RNP
RWY 09L
(ACFT CAT A,B,C,D)

2 3 MSA 25NM ARP	APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION 83	MIN TEMP -10°C
	TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION 79	TRANSITION ALTITUDE 6000
	RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION 1087 AMSL (1008) (ABOVE THR)	
	ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.2° (5.6%), 340FT/NM

NM to RW09L	6	5	4	3	2
ALT(HGT)	**2170**(2091)	**1830**(1751)	**1490**(1411)	**1150**(1071)	**810**(731)



MAPt (LNAV): RW09L

Climb to **3000** - straight ahead until passing **1580** or **I-AA DME** zero inbound whichever is later, then turn left onto track 036°. After passing **1580** revert to conventional navigation. Continue as directed.

RCF: On passing **LON DME** 10 proceed to **NDB CHT** at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**450**(371)	**460**(381)	**470**(391)	**540**(461)
	LNAV	**620**(541)	**620**(541)	**620**(541)	**620**(541)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	910	790	680	570	450

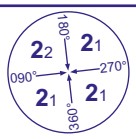
NOTES
1 Pilots should 'Request RNP Approach' on first contact with Heathrow Director.
2 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
3 Missed Approach Procedure and RCF use conventional navigation aids and are not available without DME I-AA, DME LON and NDB CHT.
4 PAPI angle is 3.0°.

CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

INSTRUMENT APPROACH CHART - ICAO

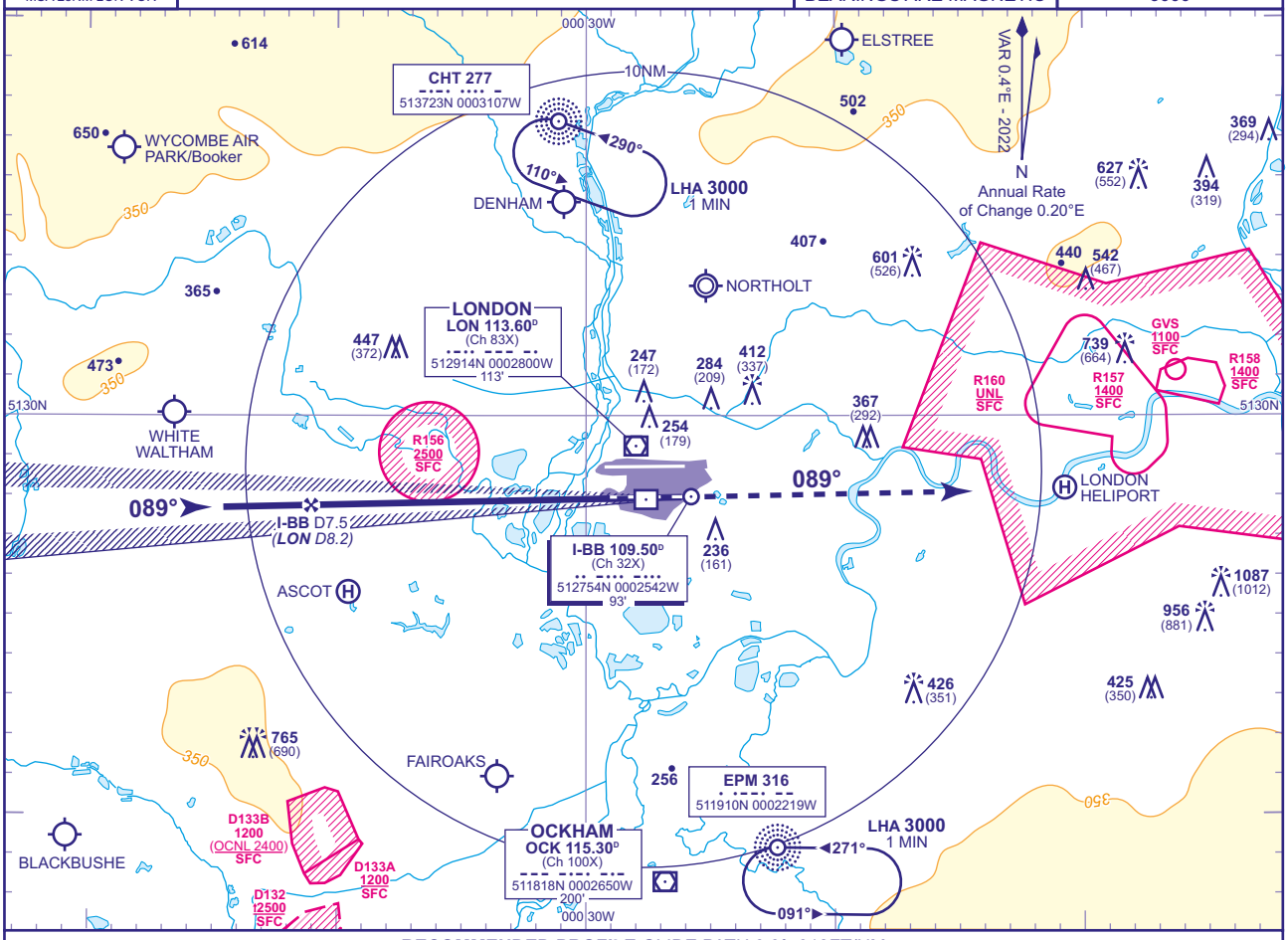
LONDON HEATHROW
ILS/DME I-BB
RWY 09R
(ACFT CAT A,B,C,D)



MSA 25NM LON VOR

APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	75
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION **1087 AMSL** (1012) (ABOVE THR)	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

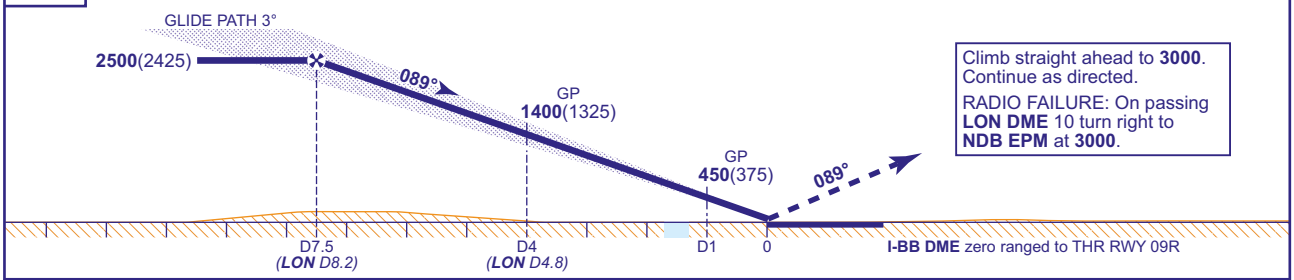
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3.0°, 318FT/NM

DME I-BB	7	6	5	4	3	2	1
ALT(HGT)	**2360**(2285)	**2040**(1965)	**1720**(1645)	**1400**(1325)	**1080**(1005)	**760**(685)	**450**(375)

RDH 50



Climb straight ahead to **3000**. Continue as directed.

RADIO FAILURE: On passing **LON DME** 10 turn right to **NDB EPM** at **3000**.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**215**(140)	**226**(151)	**240**(165)	**258**(183)
	CAT II	**124**(49)	**134**(59)	**148**(73)	**165**(90)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-BB
Advise ATC. Equivalent radar ranges will be provided when established on the localiser approaching the nominal FAP and 4NM points.

NOTES 1 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
2 Ranging information is provided by ILS-dedicated DME facilities. DME values derived to the nearest 0.1NM from VOR DME LON are also provided for the FAP and 4NM check altitude/heights.

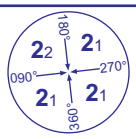
CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

AD 2-EGLL-8-4

INSTRUMENT APPROACH CHART - ICAO

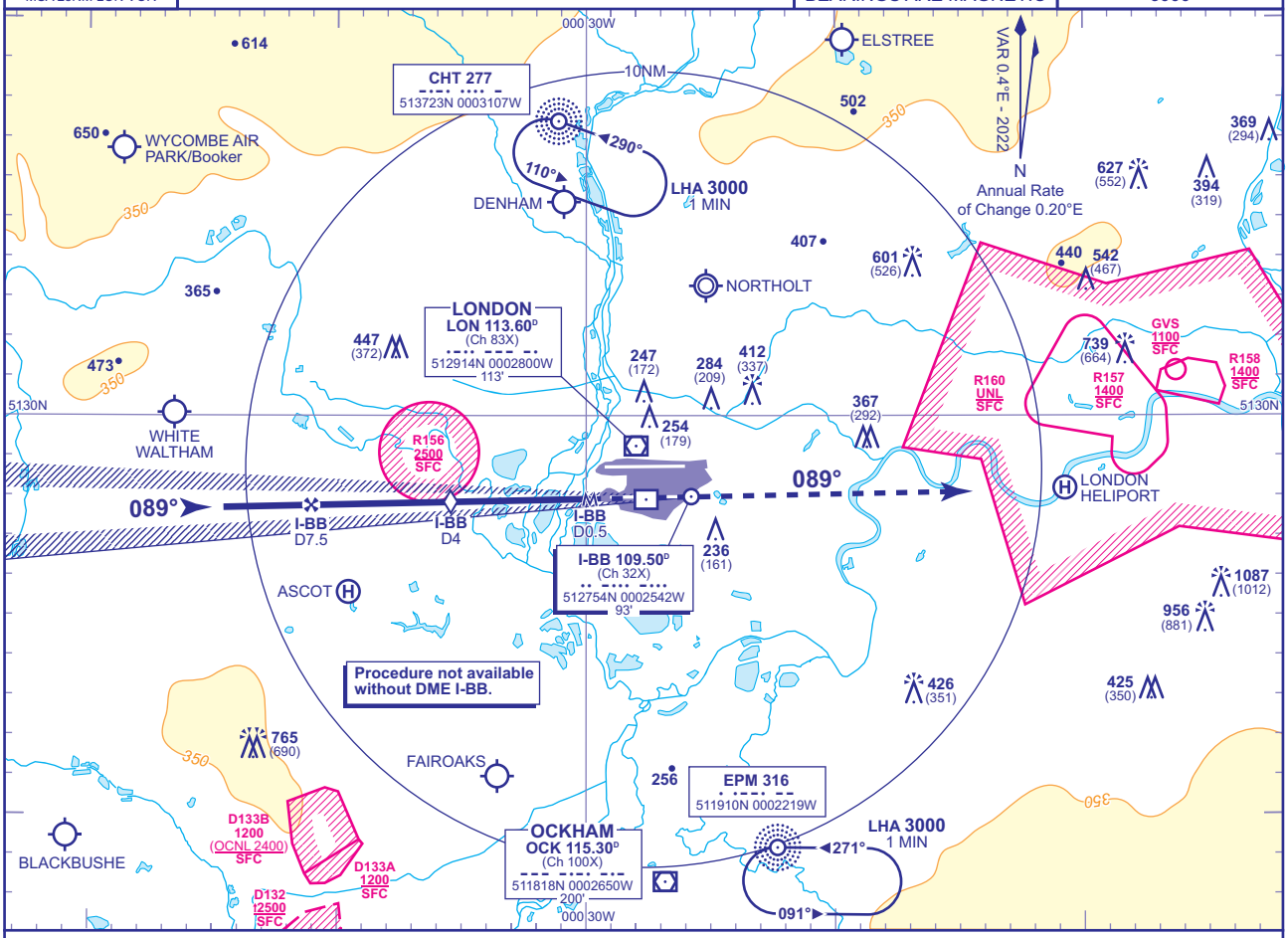
LONDON HEATHROW
LOC/DME I-BB
RWY 09R
(ACFT CAT A,B,C,D)



MSA 25NM LON VOR

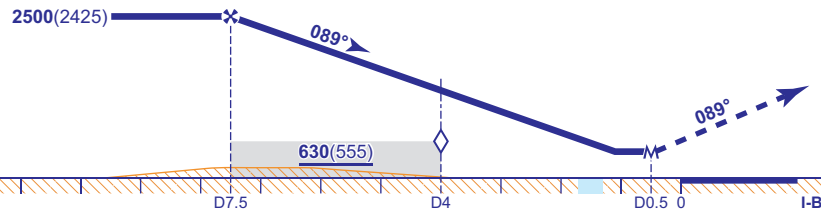
APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	75
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION 1087 AMSL (1012) (ABOVE THR)	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

DME I-BB	7	6	5	4 (SDF)	3	2
ALT(HGT)	**2360**(2285)	**2040**(1965)	**1720**(1645)	**1400**(1325)	**1080**(1005)	**760**(685)



MAPt I-BB DME 0.5

Climb straight ahead to **3000**. Continue as directed.

RADIO FAILURE: On passing **LON DME** 10 turn right to **NDB EPM** at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**480**(405)	**480**(405)	**480**(405)	**480**(405)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.

CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

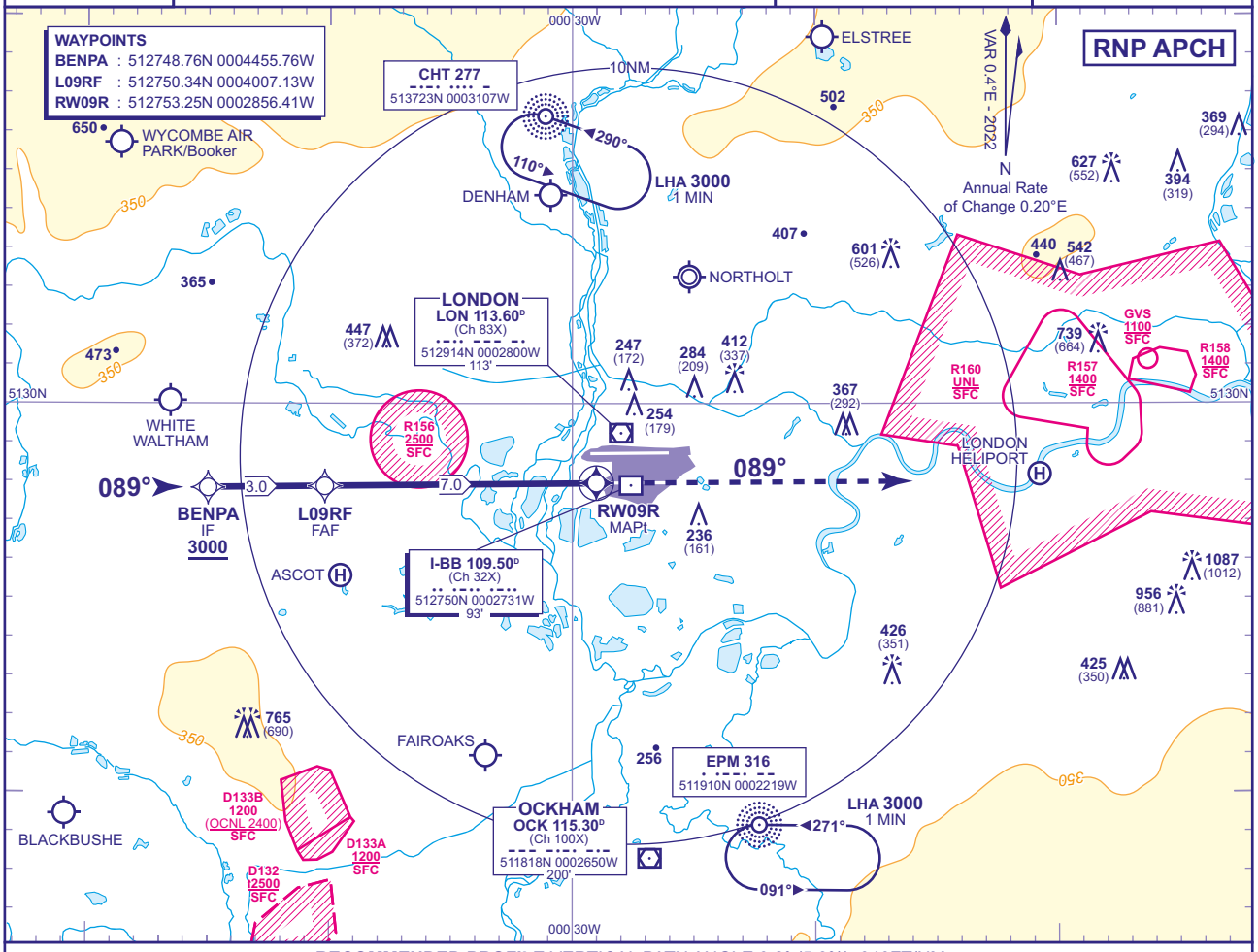
AD 2-EGLL-8-5

INSTRUMENT APPROACH CHART - ICAO

LONDON HEATHROW
RNP
RWY 09R
(ACFT CAT A,B,C,D)

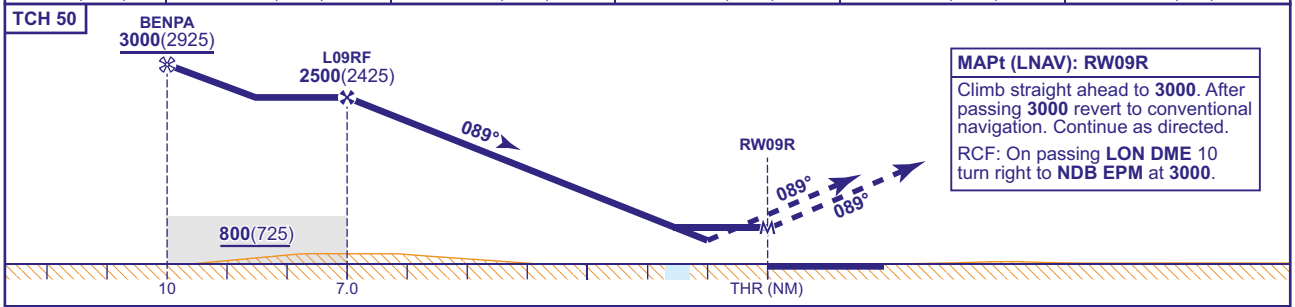
2₃ MSA 25NM ARP	APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
	TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	75
	RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION 1087 AMSL (1012) (ABOVE THR)	
	ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION		
			BEARINGS ARE MAGNETIC	

MIN TEMP -10°C
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.2° (5.6%), 340FT/NM

NM to RW09R	6	5	4	3	2
ALT(HGT)	**2160**(2085)	**1820**(1745)	**1480**(1405)	**1140**(1065)	**800**(725)



MAPt (LNAV): RW09R
Climb straight ahead to **3000**. After passing **3000** revert to conventional navigation. Continue as directed.
RCF: On passing **LON DME** 10 turn right to **NDB EPM** at **3000**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**400**(325)	**410**(335)	**430**(355)	**540**(465)
	LNAV	**620**(545)	**620**(545)	**620**(545)	**620**(545)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	910	790	680	570	450

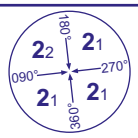
NOTES
1 Pilots should 'Request RNP Approach' on first contact with Heathrow Director.
2 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
3 Missed Approach Procedure and RCF use conventional navigation aids and are not available without DME LON and NDB EPM.
4 PAPI angle is 3.0°.

CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25
AD 2-EGLL-8-6

INSTRUMENT APPROACH CHART - ICAO

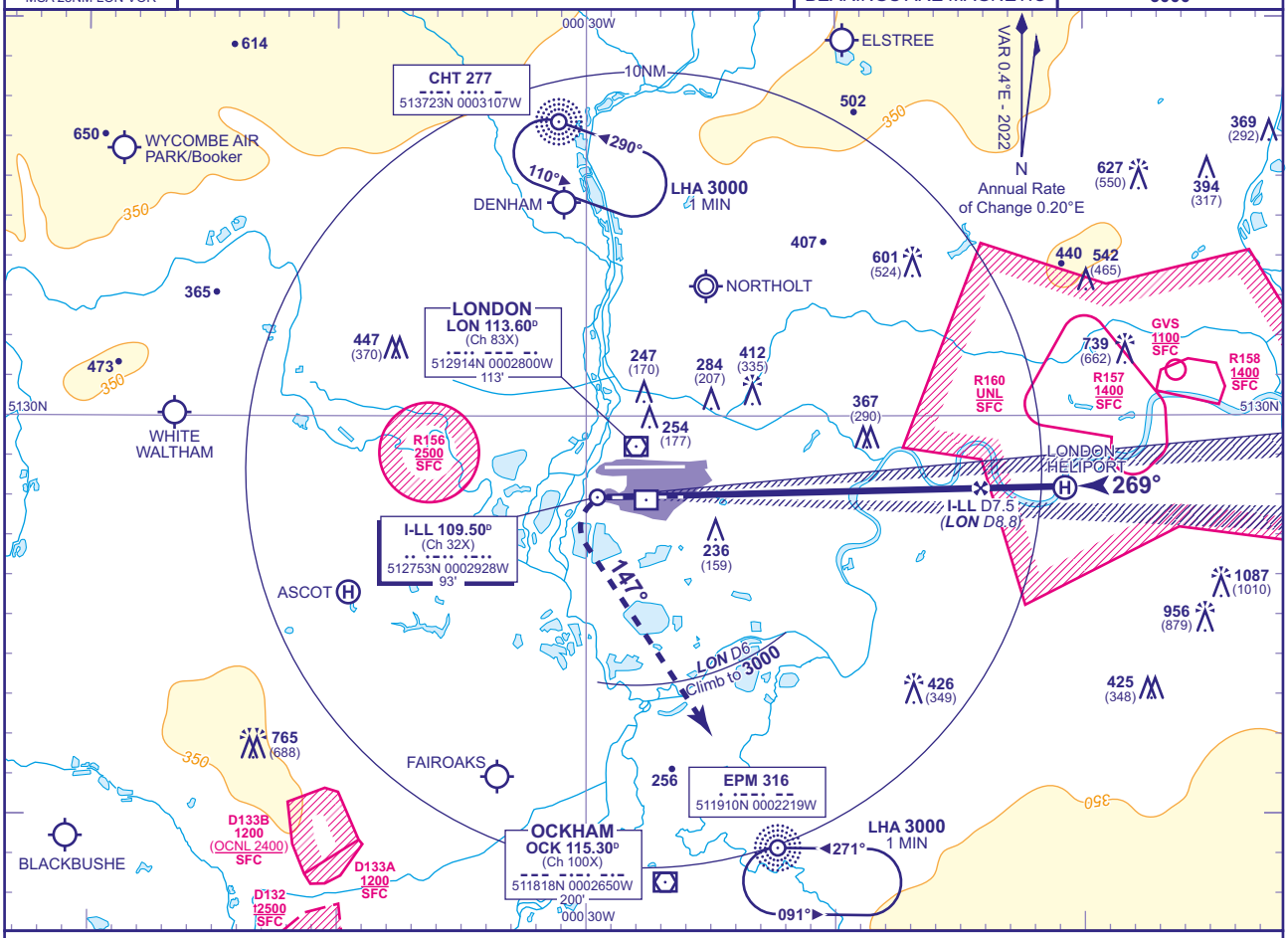
LONDON HEATHROW
ILS/DME I-LL
RWY 27L
(ACFT CAT A,B,C,D)



MSA 25NM LON VOR

APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	77
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION 1087 AMSL (1010) (ABOVE THR)	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



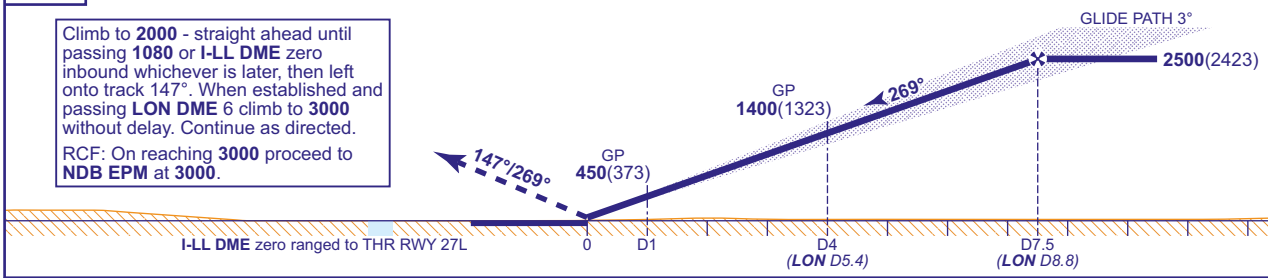
RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-LL	7	6	5	4	3	2	1
ALT(HGT)	**2360**(2283)	**2040**(1963)	**1730**(1653)	**1410**(1333)	**1090**(1013)	**770**(693)	**450**(373)

RDH 56

Climb to **2000** - straight ahead until passing **1080** or **I-LL DME** zero inbound whichever is later, then left onto track 147°. When established and passing **LON DME** 6 climb to **3000** without delay. Continue as directed.

RCF: On reaching **3000** proceed to **NDB EPM** at **3000**.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	CAT I	**229**(152)	**238**(161)	**252**(175)	**270**(193)		FT/MIN	850	740	640	530	420
	CAT II	**137**(60)	**146**(69)	**159**(82)	**174**(97)							
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)							

AIRCRAFT UNABLE TO RECEIVE DME I-LL
Advise ATC. Equivalent radar ranges will be provided when established on the localiser approaching the nominal FAP and 4NM points.

NOTES 1 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
2 Ranging information is provided by ILS-dedicated DME facilities. DME values derived to the nearest 0.1NM from VOR DME LON are also provided for the FAP and 4NM check altitude/heights.

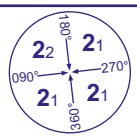
CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

AD 2-EGLL-8-7

INSTRUMENT APPROACH CHART - ICAO

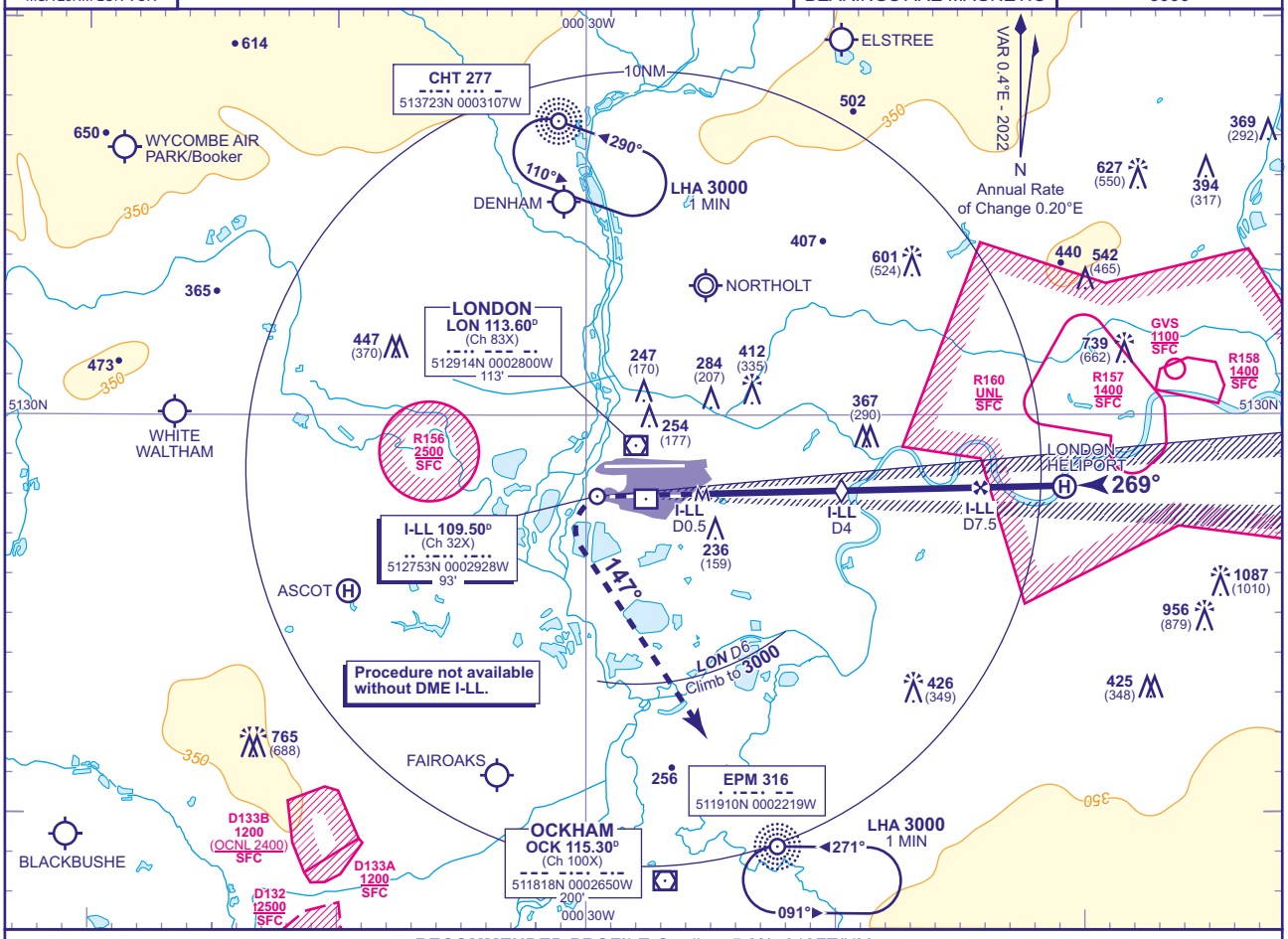
LONDON HEATHROW
LOC/DME I-LL
RWY 27L
(ACFT CAT A,B,C,D)



MSA 25NM LON VOR

APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	77
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION **1087 AMSL** (1010) (ABOVE THR)	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



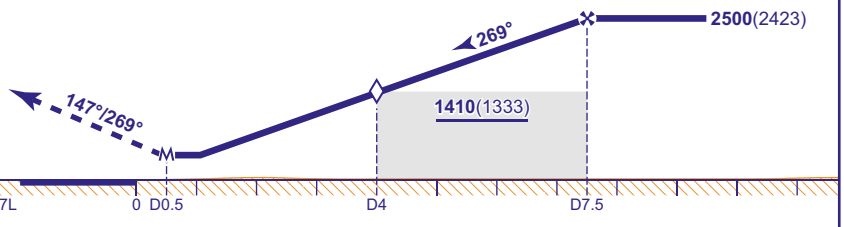
RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

DME I-LL	7	6	5	4 **(SDF)**	3	2
ALT(HGT)	**2360**(2283)	**2040**(1963)	**1730**(1653)	**1410**(1333)	**1090**(1013)	**770**(693)

MAPt I-LL DME 0.5

Climb to **2000** - straight ahead until passing **1080** or **I-LL DME** zero inbound whichever is later, then left onto track 147°. When established and passing **LON DME** 6 climb to **3000** without delay. Continue as directed.

RADIO FAILURE: On reaching **3000** proceed to **NDB EPM** at **3000**.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**640**(563)	**640**(563)	**640**(563)	**640**(563)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.

CHANGE (6/25): TWR FREQ UPDATED.

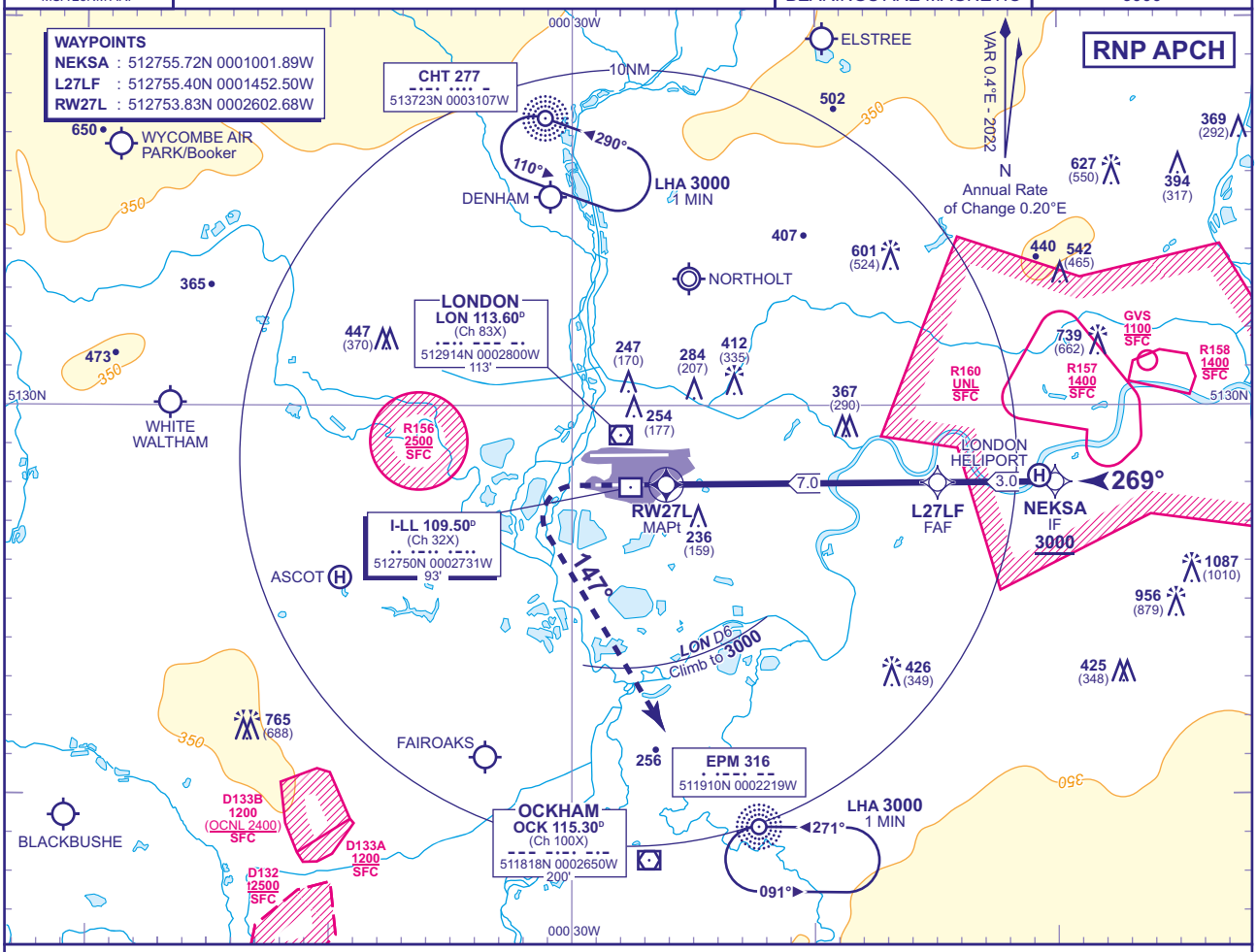
AERO INFO DATE 21 MAR 25 AD 2-EGLL-8-8

INSTRUMENT APPROACH CHART - ICAO

LONDON HEATHROW
RNP
RWY 27L
(ACFT CAT A,B,C,D)

2 3 MSA 25NM ARP	APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
	TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	77
	RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION 1087 AMSL (1010) (ABOVE THR)	
	ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

MIN TEMP -10°C
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.2° (5.6%), 340FT/NM

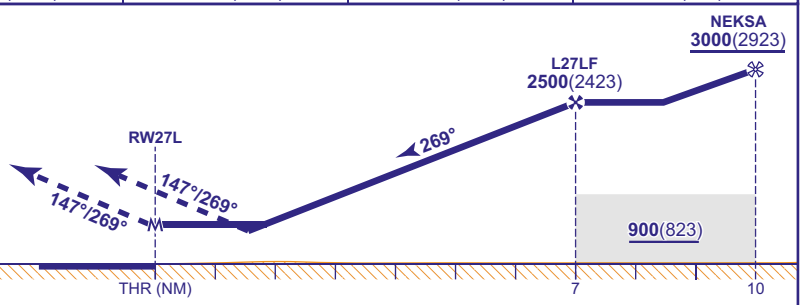
NM to RW27L	6	5	4	3	2
ALT(HGT)	**2170**(2093)	**1830**(1753)	**1490**(1413)	**1150**(1073)	**810**(733)

TCH 50

MAPt (LNAV): RW27L

Climb to **2000** - straight ahead until passing **1080** or **I-LL DME** zero inbound whichever is later, then turn left onto track 147°. After passing **1080** revert to conventional navigation. When established and passing **LON DME** 6 climb to **3000** without delay. Continue as directed.

RCF: On reaching **3000** proceed to **NDB EPM** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**380**(303)	**390**(313)	**400**(323)	**440**(363)
	LNAV	**640**(563)	**640**(563)	**640**(563)	**640**(563)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	910	790	680	570	450

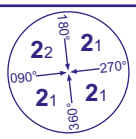
NOTES
1 Pilots should 'Request RNP Approach' on first contact with Heathrow Director.
2 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
3 Pilots should not expect descent clearance below **4000** until 13NM from touchdown.
4 Missed Approach Procedure and RCF use conventional navigation aids and are not available without DME I-LL, DME LON and NDB EPM.
5 PAPI angle is 3.0°.

CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

INSTRUMENT APPROACH CHART - ICAO

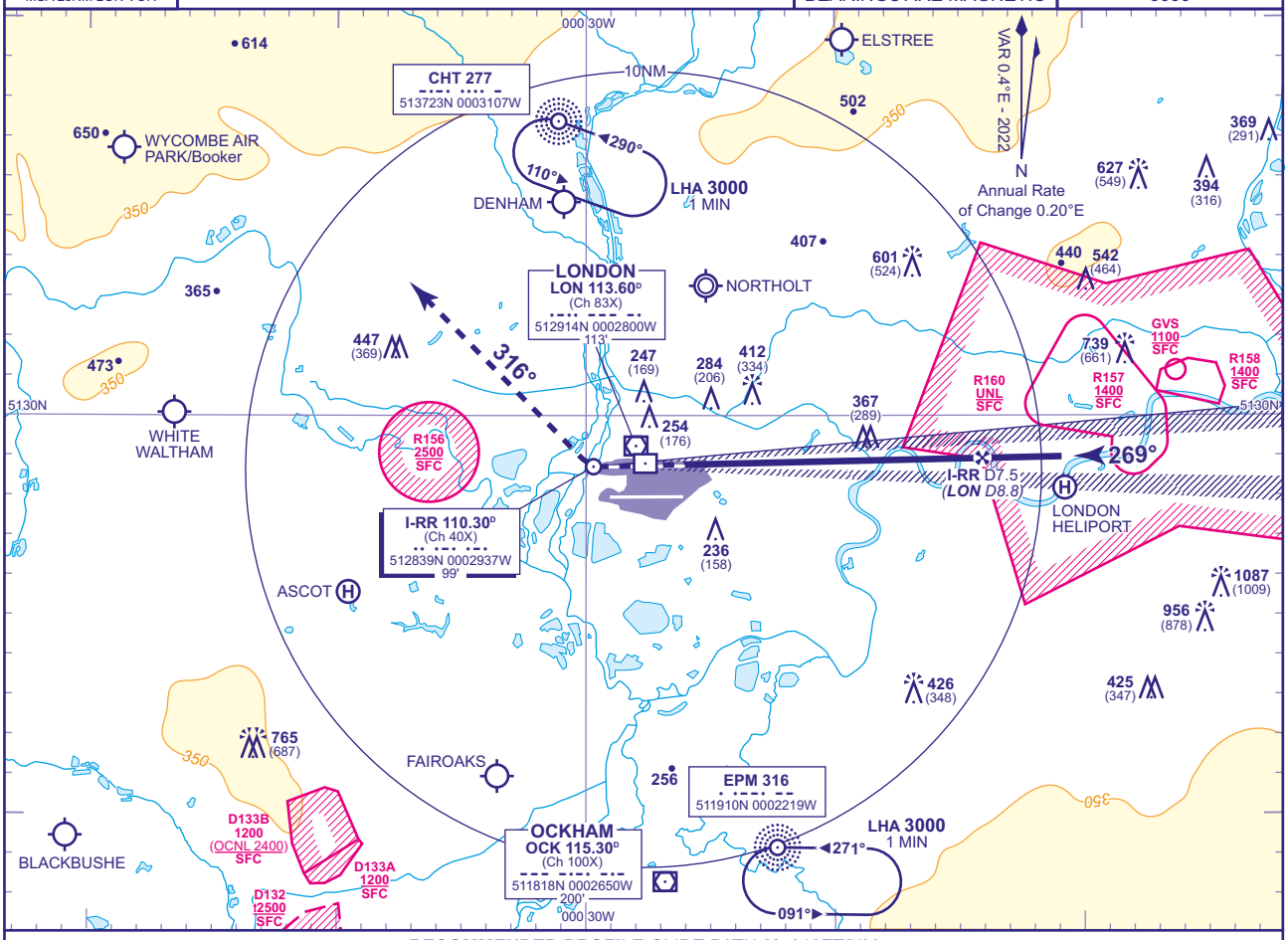
LONDON HEATHROW
ILS/DME I-RR
RWY 27R
(ACFT CAT A,B,C,D)



MSA 25NM LON VOR

APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	78
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	**1087 AMSL** (1009) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



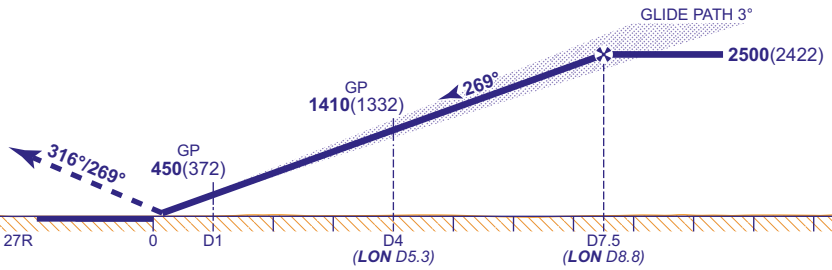
RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-RR	7	6	5	4	3	2	1
ALT(HGT)	**2370**(2292)	**2050**(1972)	**1730**(1652)	**1410**(1332)	**1090**(1012)	**770**(692)	**450**(372)

RDH 58

Climb to **3000** - straight ahead until passing **1580** or **I-RR DME** zero inbound whichever is later, turn right onto track 316°. Continue as directed.

RADIO FAILURE: On passing **LON DME** 10 turn right to **NDB CHT** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**224**(146)	**234**(156)	**247**(169)	**263**(185)
	CAT II	**131**(53)	**141**(63)	**154**(76)	**171**(93)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-RR
Advise ATC. Equivalent radar ranges will be provided when established on the localiser approaching the nominal FAP and 4NM points.

NOTES 1 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
2 Ranging information is provided by ILS-dedicated DME facilities. DME values derived to the nearest 0.1NM from VOR DME LON are also provided for the FAP and 4NM check altitudes/heights.

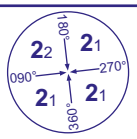
CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

AD 2-EGLL-8-10

INSTRUMENT APPROACH CHART - ICAO

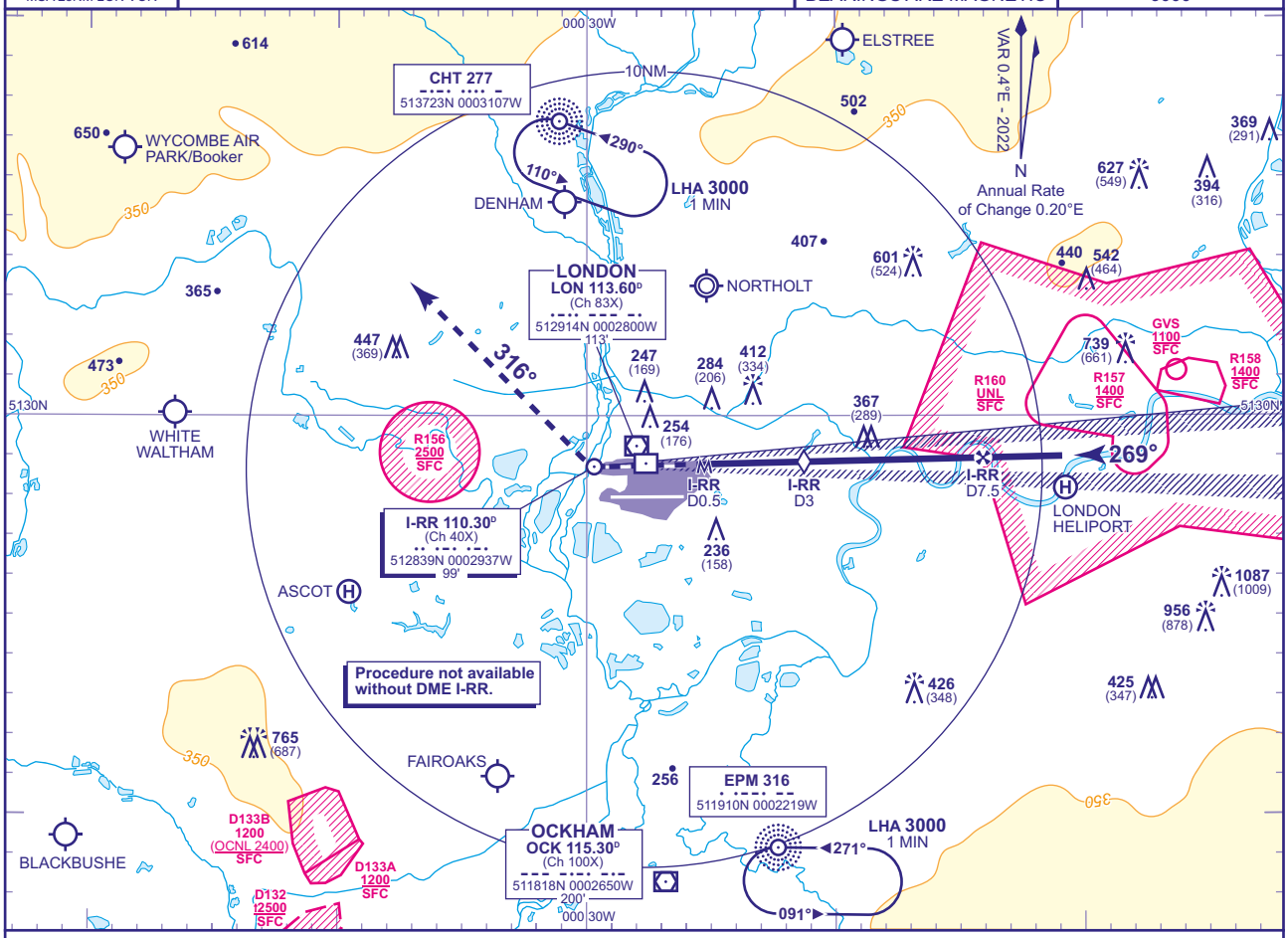
LONDON HEATHROW
LOC/DME I-RR
RWY 27R
(ACFT CAT A,B,C,D)



MSA 25NM LON VOR

APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION	83
TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION	78
RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION 1087 AMSL (1009) (ABOVE THR)	
ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



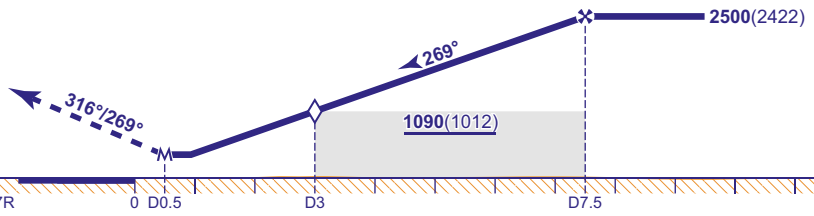
RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

DME I-RR	7	6	5	4	3 (SDF)	2	1
ALT(HGT)	**2370**(2292)	**2050**(1972)	**1730**(1652)	**1410**(1332)	**1090**(1012)	**770**(692)	**450**(372)

MAPt I-RR DME 0.5

Climb to **3000** - straight ahead until passing **1580** or **I-RR DME** zero inbound whichever is later, turn right onto track 316°. Continue as directed.

RADIO FAILURE: On passing **LON DME** 10 turn right to **NDB CHT** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**640**(562)	**640**(562)	**640**(562)	**640**(562)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES 1 Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
2 All pilots must follow and adhere to recommended profiles.

CHANGE (6/25): TWR FREQ UPDATED.

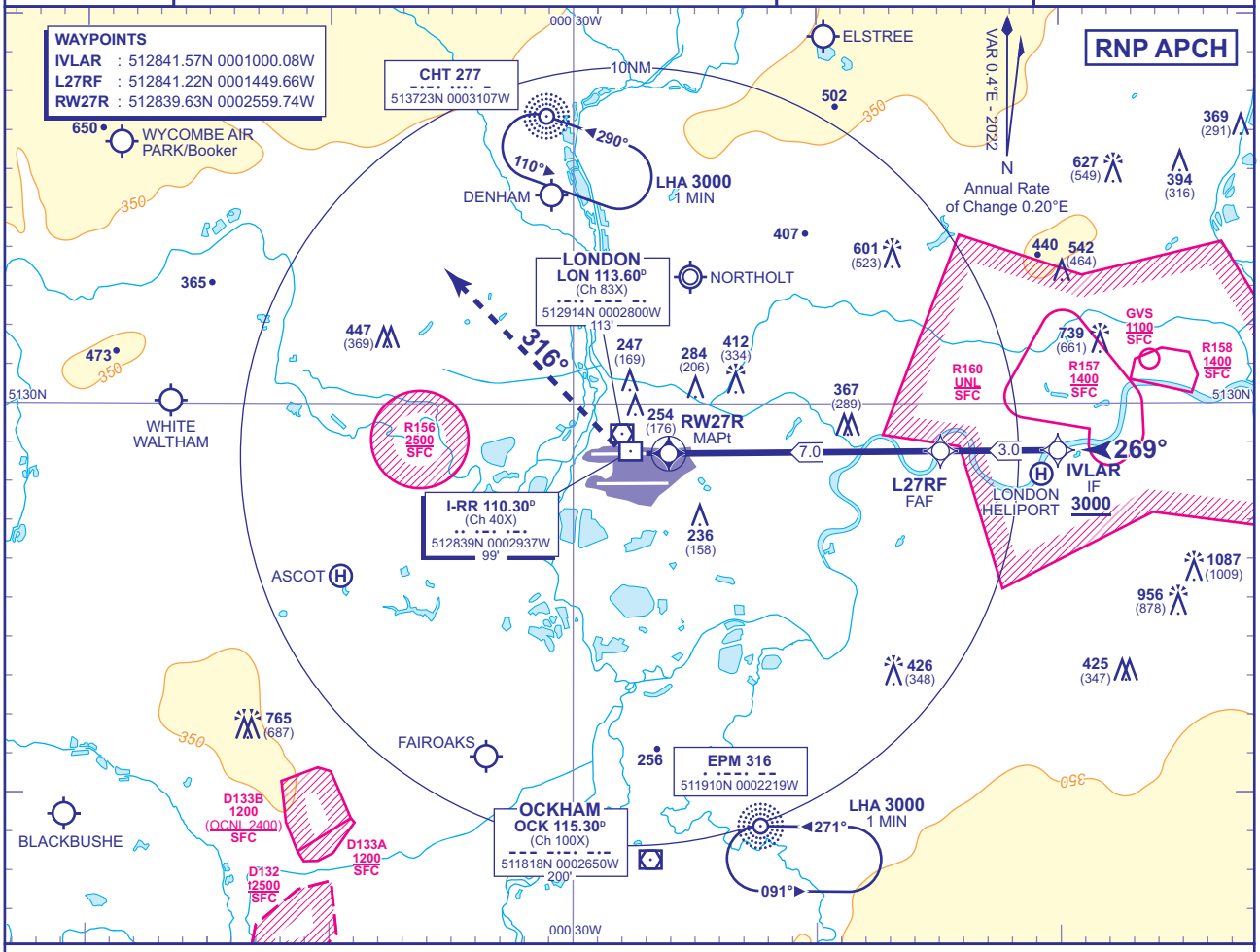
AERO INFO DATE 21 MAR 25

AD 2-EGLL-8-11

INSTRUMENT APPROACH CHART - ICAO

LONDON HEATHROW
RNP
RWY 27R
(ACFT CAT A,B,C,D)

2₃ MSA 25NM ARP	APP 119.730, 120.400, 127.525, 134.980	HEATHROW DIRECTOR	AD ELEVATION **83**	MIN TEMP **-10°C**
	TWR 118.505, 118.705, 124.480	HEATHROW TOWER	THR ELEVATION **78**	TRANSITION ALTITUDE **6000**
	RAD 125.625, 127.525	HEATHROW RADAR	OBSTACLE ELEVATION **1087 AMSL** (1009) (ABOVE THR)	
	ATIS 128.080, 113.750, 117.000	HEATHROW INFORMATION	BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE VERTICAL PATH ANGLE 3.2° (5.6%), 340FT/NM

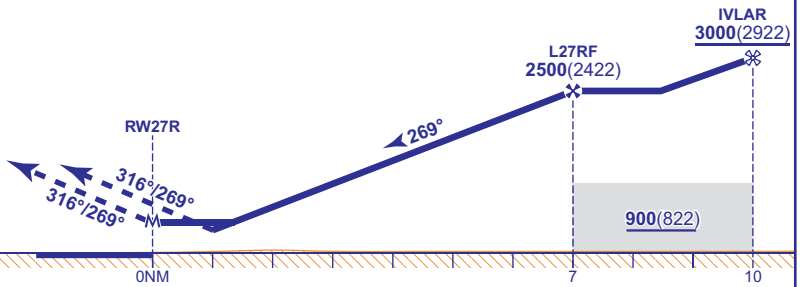
NM to RW27R	6	5	4	3	2
ALT(HGT)	**2170**(2092)	**1830**(1752)	**1490**(1412)	**1150**(1072)	**810**(732)

TCH 50

MAPt (LNAV): RW27R

Climb to **3000** - straight ahead until passing **1580** or **I-RR DME** zero inbound whichever is later, then turn right onto track 316°. After passing **1580** revert to conventional navigation. Continue as directed.

RCF: On passing **LON DME** 10 turn right to **NDB CHT** at **3000**.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**380**(302)	**390**(312)	**400**(322)	**440**(362)
	LNAV	**640**(562)	**640**(562)	**640**(562)	**640**(562)
VM(C)OCA (OCH AAL)	Total Area	**770**(687)	**770**(687)	**940**(857)	**940**(857)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	910	790	680	570	450

NOTES
1. Pilots should 'Request RNP Approach' on first contact with Heathrow Director.
2. Aircraft will normally be radar vectored from the STAR Holding/Initial Approach Fixes.
3. Pilots should not expect descent clearance below **4000** until 13NM from touchdown.
4. Missed Approach Procedure and RCF use conventional navigation aids and are not available without DME I-RR, DME LON and NDB CHT.
5. PAPI angle is 3.0°.

CHANGE (6/25): TWR FREQ UPDATED.

AERO INFO DATE 21 MAR 25

AD 2-EGLL-8-12

Instrument Approach Procedure Coding Tables

London Heathrow RNP RWY 09L - Instrument Approach Procedure via ABAVI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09L	001	IF	ABAVI	-	-	-	3000	-	512834.45N 0004505.67W	IF / 10NM
R09L	002	TF	L09LF	-	089° (089.46°)	-	2500	-	512836.05N 0004015.82W	FAF / 7.0NM
R09L	003	TF	RW09L	Y	089° (089.52°)	-	-	-	512839.00N 0002906.05W	MAPt
R09L	004	CA	-	-	089° (089.67°)	-	1580	-	-	At 1580 revert to conventional navigation

London Heathrow RNP RWY 09R - Instrument Approach Procedure via BENPA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	BENPA	-	-	-	3000	-	512748.76N 0004455.76W	IF / 10NM
R09R	002	TF	L09RF	-	089° (089.47°)	-	2500	-	512750.34N 0004007.13W	FAF / 7.0NM
R09R	003	TF	RW09R	Y	089° (089.53°)	-	-	-	512753.25N 0002856.41W	MAPt
R09R	004	CA	-	-	089° (089.67°)	-	3000	-	-	At 3000 revert to conventional navigation

London Heathrow RNP RWY 27L - Instrument Approach Procedure via NEKSA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	NEKSA	-	-	-	3000	-	512755.72N 0001001.89W	IF / 10NM
R27L	002	TF	L27LF	-	269° (269.93°)	-	2500	-	512755.40N 0001452.50W	FAF / 7.0NM
R27L	003	TF	RW27L	Y	269° (269.86°)	-	-	-	512753.83N 0002602.68W	MAPt
R27L	004	CA	-	-	269° (269.71°)	-	1080	-	-	At 1080 revert to conventional navigation

London Heathrow RNP RWY 27R - Instrument Approach Procedure via IVLAR

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27R	001	IF	IVLAR	-	-	-	3000	-	512841.57N 0001000.08W	IF / 10NM
R27R	002	TF	L27RF	-	269° (269.92°)	-	2500	-	512841.22N 0001449.66W	FAF / 7.0NM
R27R	003	TF	RW27R	Y	269° (269.86°)	-	-	-	512839.63N 0002559.74W	MAPt
R27R	004	CA	-	-	269° (269.71°)	-	1580	-	-	At 1580 revert to conventional navigation

CHANGE (12/21): INTRODUCTION OF A 3.2° RNP IAP.
AERO INFO DATE 07 SEP 21

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EGGW — LONDON LUTON

EGGW AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGGW — LONDON LUTON

EGGW AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515229N Long: 0002206W Mid point of Runway 07/25.
2	Direction and distance from city	1.5 NM E of Luton. 30.5 NM N of London.
3	Elevation / Reference temperature / Mean Low Temperature	527 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	152 FT
5	Magnetic Variation / Annual Change	0.41°E (2022) / 0.20°E
6	AD Administration Address Telephone	LONDON LUTON AIRPORT OPERATIONS LTD Percival House, Percival Way, Luton, Bedfordshire LU2 9NU. 01582-395229 (NATS Ltd) 01582-395029 (NATS Ltd - ATC Watch Manager) 01582-395451 (Airport Manager) 01582-395525 (Operations) 01582-405100 (Switchboard)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone calls to ATC are recorded.

EGGW AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	
4	AIS Briefing Office	Unattended Briefing System.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	Unattended Briefing System.
7	ATS	H24 See also AD 2.18.
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Refer to AD 2.20 item 1.

EGGW AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Yes. Nearest railway siding: Luton 2.5 NM
2	Fuel and oil types	AVTUR JET A-1 100, W80, W100.
3	Fuelling facilities/capacity	Bowser
4	De-icing facilities	By arrangement with handling companies
5	Hangar space for visiting aircraft	By arrangement with based companies.
6	Repair facilities for visiting aircraft	Yes. By arrangement with local companies.

7	Remarks	Oxygen and related servicing: By arrangement with Luton based airlines. Fuel: Subject to surcharge. Out of hours contact: 01582-722244 (Shell UK Ltd). A nominated handling agent is Mandatory for all visiting aircraft. Any aircraft operator or aircrew requiring an aircraft and/or passenger handling service can obtain details from the following companies: Harrods Business Aviation 01582-589317; Frequency 131.450 MHz. Signature Flight Support: Terminal 1 01582-724182; Frequency 130.175 MHz; Terminal 2 01582-692330; Frequency 130.650 MHz. Swissport 01582-700900; Frequency 130.600 MHz. Menzies 07985-891605; Frequency 131.400 MHz. GH London 01582-395291; Frequency 131.935 MHz.

EGGW AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel at the Airport and other hotels in Luton.
2	Restaurants	Yes.
3	Transportation	Nearest railway station: Automated Guided People Mover (DART) to/from Luton Airport Parkway. Buses and Taxis.
4	Medical facilities	Limited first aid treatment and emergency services response.
5	Bank and Post Office	Bureau de Change.
6	Tourist Office	
7	Remarks	

EGGW AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8 and 9 by prior arrangement. RFF Category 9 provided with RFF Category 8 under remission.
2	Rescue equipment	In accordance with UK (EU) Regulation 139/2014, as per Aerodrome Manual.
3	Capability for removal of disabled aircraft	Limited recovery available. Contact 01582-395451.
4	Remarks	National airlines and/or larger independent airlines should plan to fly in appropriate salvage equipment and should be part of the airline pooling arrangement or have recovery procedures in place.

EGGW AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing, Sanding/Gritting.
2	Clearance priorities	Standard. See AD 1.2.2
3	Remarks	

EGGW AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	CARGO APRON Surface: Concrete and asphalt DELTA APRON Surface: Concrete EAST APRON Surface: Concrete MAIN APRON Surface: Concrete and asphalt or asphalt and block paving NORTH APRON Surface: Concrete SOUTH APRON Surface: Concrete
2	Taxiway width, surface and strength	Taxiway A: 23 M Surface: Asphalt Taxiway B: 23 M Surface: Asphalt Taxiway C: 23 M Surface: Asphalt Taxiway D: 23 M Surface: Asphalt Taxiway E: 19 M Surface: Concrete Taxiway F: 23 M Surface: Asphalt Taxiway H: 23 M Surface: Asphalt Taxiway K: 23 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	South Apron 516 FT Cargo Apron 501 FT East Apron 499 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	Taxiway Echo exceeds 1.5% slope (1.7%)

EGGW AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	All stands are marked for nose in parking, with the exception of Stands 54, 56, 58, 62, 71, 80 and 81. London Luton Airport operates a combination of stand configurations such as Standard Apron/Stand, and Multiple Aircraft Ramp System (MARS). All Stands will have a single yellow centre-line. Each stand has an individual stand number. MARS stands consist of a main centre-line and have two subsidiary centre-lines either side of the main centre-line. These subsidiary centre-lines are given the designation of the stand number with L (Left) and R (Right) added. Aircraft parking on all stands is by marshallers' instructions, pilots must hold on the taxiway centreline until signalled to make a turn to enter their designated stand by a marshaller. The presence of a marshaller should indicate a safety check of the stand has been made by the handling agent prior to aircraft arrival. Stands 8 and 9 have a slope in excess of 1%.

2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Runway designation, runway threshold, runway centre-line and touchdown zone markings. Lead-offs from the runway are marked by a continuous yellow line from the centre-line of the runway. Runway light(s): Threshold - HI green lights. Edge - HI white lights. Centreline - HI colour coded white/red lights. Touchdown zone - HI white lights. Stop end - HI red lights. Colour coded amber/green lights indicate the runway turn-off routes to the CAT III stop bars. Taxiway marking aid(s): Enhanced centre-line and Runway Ahead Markings at A1, B1, C1 & H1. Taxiway light(s): Amber guard lights at runway/taxiway intersections.
3	Stop bars and runway guard lights (if any)	Stop bars at Runways 07/25 Holding Points, taxiway intersection and intermediate holding points.
4	Other runway protection measures	
5	Remarks	WDI (LGTD) RWY 07 THR: 515225.58N 0002246.40W. WDI (LGTD) RWY 25 THR: 515238.29N 0002131.17W. WDI adjacent to Airport Fire Station (515232.48N 0002231.51W) is not reliable for aeronautical purposes.

EGGW AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGGW7226) 25/APPROACH	TREE	515244.07N 0002108.48W	525 FT	68 FT	No	Trees in 25/Approach relate to highest wooded area.
(EGGW7213) 25/APPROACH	TREE	515234.15N 0002101.17W	557 FT	76 FT	No	Trees in 25/Approach relate to highest wooded area.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	CRANE	515253.25N 0002445.75W	657 FT	301 FT	Yes Red	3 Tower cranes working in area. End estimated October 2026.
(EGGW7007)	MAST	515242.53N 0002617.85W	721 FT	165 FT	Yes Red	
(EGGW6067)	ATC AERIAL	515240.19N 0002232.71W	673 FT	159 FT	No	
(EGGW7008)	MAST	515239.87N 0002551.56W	698 FT	168 FT	Yes Red	

EGGW AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 Hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.

6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	F214, F215, GAMET South East available at https://www.metoffice.gov.uk/.
8	Supplementary equipment available for providing information	Self briefing terminal.
9	ATS units provided with information	LONDON LUTON
10	Additional information (limitation of service, etc.)	A recording of ATIS is available H24 on Tel: 01582-395225.

EGGW AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
07	074.38°	2162 x 45 M	RWY surface: Asphalt, Grooved PCN 75/R/D/X/T	515219.25N 0002300.91W 152.5 FT	THR 515.2 FT TDZ 526.7 FT	
25	254.40°	2162 x 45 M	RWY surface: Asphalt, Grooved PCN 75/R/D/X/T SWY surface: Asphalt, Non grooved PCN 75/R/D/X/T	515237.36N 0002116.15W 152.4 FT	THR 508.5 FT TDZ 525.7 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	1081 x 150 M	2339 x 300 M				RWY 07
57 x 45 M	1081 x 150 M	2339 x 300 M				RWY 25 Threshold displaced by 82 M.

EGGW AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	2162 M	3243 M	2162 M	2162 M	
25	2162 M	3243 M	2219 M	2080 M	
07	1982 M	2973 M	1982 M		Take-off from intersection with Taxiway B. Start of TORA 519 FT.
07	1688 M	2532 M	1688 M		Take-off from intersection with Taxiway H. Start of TORA 525 FT.
07	1132 M	1698 M	1132 M		Take-off from intersection with Taxiway C. Start of TORA 525 FT.
25	1771 M	2657 M	1828 M		Take-off from intersection with Taxiway A. Start of TORA 516 FT.
25	1053 M	1580 M	1110 M		Take-off from intersection with Taxiway C. Start of TORA 525 FT.

EGGW AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07	Coded centre-line with three crossbars. Supplementary lighting inner 240 M. 427 M Light intensity high	Green Flush uni-directional with elev green wingbars	PAPI Left/3° 60 FT 317 M	900 M	Colour coded 15 M spacing Light intensity high	Elev HI bi-directional with LI omni component	Red		EDGE: Blue turning circle lights.
25	Coded centre-line with five crossbars. Supplementary lighting inner 240 M. 844 M Light intensity high	Green Flush uni-directional with elev green wingbars	PAPI Left/3° 61 FT 320 M	900 M	Colour coded 15 M spacing Light intensity high	Elev HI bi-directional with LI omni component	Red	Red	THR: Wingbars displaced by 82 M. EDGE: Blue turning circle lights.

EGGW AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 515218.73N 0002242.87W (LGTD) - 515230.84N 0002130.70W (LGTD).
3	TWY edge and centre line lighting	CL: Green centre-line lights at 15 M spacing, lights alternate green/yellow inside ILS LOC sensitive area. Green/Yellow lead on/off centre-line lights at A1, B1, C1 and H1. EDGE: Blue edge lights on curves and around run-up area.
4	Secondary power supply/switch-over time	Yes.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGGW AD 2.16 HELICOPTER LANDING AREA

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EGGW AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON LUTON CTR 515244N 0003828W - 515511N 0002426W - 515743N 0002145W - 515857N 0001434W thence clockwise by the arc of a circle radius 8 NM centred on 515229N 0002206W to 515042N 0000931W - 514830N 0001506W - 514503N 0003457W - 515244N 0003828W	Upper limit: 3500 FT ALT Lower limit: SFC	D	LUTON RADAR English	6000 FT		To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON LUTON ATZ A circle, 2.5 NM radius, centred at 515229N 0002206W on longest notified runway (07/25)	Upper limit: 2000 FT AGL Lower limit: SFC	D	LUTON RADAR English	6000 FT		

EGGW AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	LUTON RADAR	129.550			H24	ATZ hours coincident with Approach hours.
		132.050 When directed by ATC.			H24	
TWR	LUTON DELIVERY	121.885			When directed by ATC (by ATIS)	Operators of aircraft that are not equipped for 8.33 kHz should contact ATC by phone (01582-395029) prior to operating at this aerodrome.
	LUTON GROUND	121.755 DOC 5 NM/GND			0600-2300 (0500-2200).	
	LUTON TOWER	121.500 Emergency frequency O/R.			H24	
		126.730 SPARE - When directed by ATC.			H24	
		132.555 DOC 25 NM/4,000 FT.			H24	
RADAR	LUTON DIRECTOR	128.750 When directed by ATC.			H24	
ATIS	ARRIVAL AND DEPARTURE INFORMATION	120.580 DOC 60 NM/ 20,000 FT.			H24	ATIS also available on Tel: 01582-395225
OTHER	LUTON FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGGW AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 1.23°E (2027)	ILTN	109.150 MHz	HO	515239.35N 0002104.62W		(RWY 07)
ILS/GP	ILTN	331.250 MHz	HO	515218.44N 0002245.00W		3° ILS Ref Datum Hgt 58 FT.
ILS/LOC III 1.22°E (2027)	ILJ	109.150 MHz	HO	515217.42N 0002311.45W		(RWY 25)
ILS/GP	ILJ	331.250 MHz	HO	515231.03N 0002129.60W		3° ILS Ref Datum Hgt 55 FT.
NDB 1.10°E (2027)	HEN	433.500 kHz	H24	514535.07N 0004725.05W		Range 30 NM.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB (L) 1.27°E (2027)	LUT	345.000 kHz	H24	515340.69N 0001509.02W		Range 20 NM.
ILS/DME	ILTN	28Y 109.150 MHz	HO	515218.23N 0002244.57W	535 FT	(RWY 07) On AD. DME freq paired with ILS I-LTN. Zero range is indicated at THR of Runway 07.
ILS/DME	ILJ	28Y 109.150 MHz	HO	515230.89N 0002129.81W	532 FT	(RWY 25) On AD. DME freq paired with ILS I-LJ. Zero range is indicated at THR of Runway 25.
VOR/DME 1.41°E (2027) 1.1°E (2025)	LAM	103X 115.600 MHz	H24	513845.69N 0000906.13E	241 FT	VOR DOC: 30 NM/50,000 FT (40 NM/50,000 FT in Sectors R064-099, R139-174 and R249-289). DME DOC: 40 NM/50,000 FT (110 NM/50,000 FT in Sector R314-134).
VOR/DME 1.58°E (2027) 1.2°E (2023)	DET	120X 117.300 MHz	H24	511814.41N 0003550.19E	645 FT	VOR DOC: 20 NM/50,000 FT (35 NM/50,000 FT in Sector R289-029 and 45 NM/50,000 FT in Sector R249-289). DME DOC: 60 NM/50,000 FT.
VOR/DME 1.18°E (2027) 0.7°E (2023)	BNN	84Y 113.750 MHz	H24	514334.19N 0003259.10W	558 FT	VOR DOC: 20 NM/50,000 FT (30 NM/50,000 FT in Sector R329°-084° and 40 NM/50,000 FT in Sector R084°-119°). DME DOC: 60 NM/50,000 FT.
VOR/DME 1.36°E (2027) 1.1°E (2022)	BKY	109Y 116.250 MHz	H24	515923.17N 0000342.87E	486 FT	VOR DOC: 20 NM/25,000 FT (30 NM/25,000 FT in Sector R069-099). DME DOC: 120 NM/50,000 FT.
VOR/DME 1.32°E (2027) 1.2°E (2025)	BPK	122X 117.500 MHz	H24	514459.05N 0000624.25W	392 FT	VOR DOC: 20 NM/50,000 FT (40 NM/50,000 FT in Sector R254-074 and 65 NM/50,000 FT in Sector R314-349). DME DOC: 40 NM/50,000 FT (80 NM/50,000 FT in Sector R284-359).

EGGW AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Luton CTR.
b) All flights operating at London Luton Airport require a slot allocation by Airport Coordination Ltd (ACL). Requests for ad-hoc slot allocations should be made to ACL during working hours 0830-1700 (0730-1600) Monday to Friday by SITA: LONACXH; e-mail: lonacxh@acl-uk.org; Tel: 0208-564 0614; or Fax: 0208-564 0691 or at all other times to London Luton Airport Operations Control Centre: 01582-395525. OCS account holders can add, change and cancel slots at any time on the online coordination portal: https://www.online-coordination.com/default.aspx?AspxAutoDetectCookieSupport=1.
c) Aircraft operators are required to have made prior arrangements for ground handling with an Airline or Ground Handling Agent based at London Luton Airport. This includes diversion events, however nothing in this procedure shall prevent an aircraft that has declared an emergency from landing.
d) Aircraft operating at London Luton Airport without the required acceptance from Airport Co-ordination Ltd and/or without prior arrangement for ground handling services will incur a financial penalty payable to the Airport Authority prior to the aircraft leaving London Luton.
e) Aircraft using London Luton Airport do so in accordance with London Luton Airport's Conditions of Use document available on request from London Luton Airport Operations Ltd. http://www.london-luton.co.uk/en/content/8/1259/operations.html.
f) The airport is available only to pilots holding a current licence. The minimum required is a Private Pilot Licence.
g) Aircraft unable to communicate with ATC by radio will not be accepted.
h) London Luton Airport is not equipped to handle radioactive materials and therefore aircraft carrying such material will not be accepted. In the event that an aircraft carrying radioactive materials has no alternative but to divert to Luton, the pilot must inform Luton ATC on first contact.
i) VFR aircraft operating into or out of Luton Airport should file a flight plan in advance. In exceptional circumstances 'booking out' may be made with ATC by telephone on 01582-395029; 'booking out' of flights by RTF will not be accepted.
j) Cross-bleed engine starts are not permitted on any stand. All such engine starts must be undertaken on the adjacent taxiway or apron taxiway centre-line and approval must be obtained from ATC in advance. Cross-bleed engine starts on the East Apron must only be undertaken with the approval of ATC, at the entrance to the apron.
k) Fixed-wing aircraft except when in the service of a police authority and authorised by ATC, must not operate over any apron below a height of 1000 FT.

l) It is a mandatory requirement that all aircrew and ground staff wear high visibility clothing (minimum standard being a high visibility waistcoat) at all times in external airside areas of the airport. It is the responsibility of the aircraft captain to ensure that their passengers are escorted by aircrew or ground staff at all times when on foot in external airside areas of the airport.

m) Aircraft operators are informed that the use of DECT 6.0 version cordless phones operating on the 1.9 GHz frequency is prohibited at London Luton Airport.

2 GROUND MOVEMENT

a) Ground Movement Control (GMC) is in continuous operation and surface movement of aircraft, vehicles and personnel on the Manoeuvring Area is subject to ATC authority. All operators should state their location in the initial contact with GMC.

b) Pre-departure clearance by Data Clearance Link using ARINC (623) is available at London Luton Airport for suitably equipped aircraft. DCL is available from EOBT minus 30 to EOBT minus 1. Flight crew should ensure that stand information is entered in the request correctly. Earliest response will be EOBT minus 18 minutes. Successful clearances must be ACCEPTED within 5 minutes of receipt or a 'Revert to voice' message will be received. If an attempt to obtain DCL is unsuccessful the aircraft must instead request via RTF. Further details of the DCL service may be obtained from ATC on 01582-395029.

c) Flight crew should request start-up and/or pushback only when imminently ready to do so. This should include doors and hatches closed, steps removed, tug attached and communications established with ground crew with confirmation that they are ready. To prevent back of stand vehicle traffic congestion, anti-collision beacons should only be switched on once start clearance has been obtained.

d) Engine start-up and pushback from stands must not take place until positive clearance to do so has been received from ATC.

e) Within the Manoeuvring area, pilots will be cleared to proceed under general direction from GMC and are reminded of the extreme importance of maintaining a careful lookout at all times. ATC instructions will normally specify the taxi route to be followed. To avoid conflict between inbound and outbound traffic Luton Tower issue instructions to aircraft to hold at intermediate taxiway holding points. Pilots should pay particular attention to the clearance limit issued and ensure they are familiar with, and have a current copy of, the taxiway map to avoid any breach of taxi clearance limits. All breaches will be reported by ATC and an investigation into the cause will be required.

f) It is the aircraft Commander's responsibility not to accept an ATC clearance into an area not approved for the type of aircraft.

g) Aircraft pushing-back from stands 43L, 44L, 44R, 45R, 46, 47, 48 and 49 must not infringe Taxiway Delta without specific clearance from ATC.

h) All stands are Nose-in/Pushback: ATC will specify the direction of pushback as required by the tactical traffic situation. Flight crew must ensure that ground crew are aware of the required pushback direction. If flight crew are unable to communicate via headset or visually with ground crew they must advise GMC before start-up. Pushback directions will be specified as one of the following:

i. Main Apron stands: face north towards Echo 1 or face south towards Bravo 7.
ii. North Apron stands: unless an alternative pushback is given with the clearance, pushback directions will be specified as one of the following - push to tug point Elder to face east towards Echo 3 or push to tug point Willow to face west towards Echo 2.
iii. East Apron stands: standard push and start within the East Apron facing east toward Delta.
iv. South Apron stands: face east towards Alpha 5 or face west towards Alpha 6.
v. Delta Apron stands: face south towards Delta 1 or face north towards Delta 2.
vi. Stands 16, 17, 18, 19: face north towards Echo 1 or face south towards Bravo 7.
vii. Stand 60: face east towards Echo 1 or face west towards Main Apron.
viii. Stand 61: face west towards Echo 2 or east towards Echo 3.
ix. Stand 62: pushback within the stand area to face west towards Juliet 1.
x. Engine Run-Up Bay (ERUB) Apron stands: face east towards Alpha 3 or face west towards Alpha 4.

i) **Alternative Pushback Procedure**.

i. Stands 72, 74, 75, 76, 77, 78, 79 – dependent on prevailing traffic, ATC may instruct to pushback to holding point Delta 4 to face south on Taxiway Delta.
ii. Stand 73 Code D and E are required to pushback to holding point Delta 4 to face south on Taxiway Delta and pulled forward to D3.
iii. Stands 30 and 31: Aircraft up to Code C are required to pushback into Taxiway Echo to face east at Holding Point Echo 3.
iv. Stands 30 and 31: Code D up to max size Airbus A300 are required to pushback into Taxiway Echo and pull forward onto Delta facing south.
v. Stand 31 Code E are required to push to East Apron then pull forward on to Delta facing south.
vi. Stand 31 B767 are required to push to East Apron for taxi.
vii. Stand 71 Aircraft up to Code C, ATC may instruct to pushback to Delta 4 facing south.

j) **Taxiing Restrictions - Taxiways Bravo and Echo**.

i. Wide-bodied aircraft must not route via Echo 1 in any direction. Maximum size aircraft under power between Echo 1 and Echo 3 is Code C.
ii. Wide-bodied aircraft are not permitted to taxi in either direction via Bravo 8 without the guidance of a Follow-Me vehicle.

k) **Additional Visual Holding Points.**

Bravo 8 (northbound - Taxiway Bravo), Juliet 1 (Exit from Stand 62), Charlie 2 (northbound - Taxiway Charlie) and Alpha 6 (eastbound - Taxiway Alpha) are additional visual holding points.

l) **Holding Points Restrictions**.

i. Limited Remote Holding capacity is available on request to GMC, for aircraft up to B737/A321 size that are subject to ATFM departure delays.
ii. Pilots of departing aircraft approaching holding point Hotel 1 should exercise caution due to the unusual alignment of the taxiway and runway entry point, particularly when holding in a queue of aircraft. The area immediately to the west of Hotel 1 is not a

designated holding area. Aircraft must not cross the Hotel 1 holding point or enter this area unless positive clearance to do so has been received from ATC, and the stopbar at Hotel 1 has been extinguished.

iii. Hold A4E is not available for aircraft larger than the Boeing 737-800/BBJ/A321. Access is only permitted eastbound routeing via hold A4.

m) **Remote De-icing - Aircraft Engines Running**.

i. There are two locations identified as de-icing pads to enable the remote de-icing of aircraft with engines running. They are managed and coordinated by the London Luton Airport Operations Ltd (LLAOL) de-icing service providers and there is an agreed process in place for the operation of these pads.

ii. The two locations are located on Taxiway Foxtrot and the South Apron and are available for use by both commercial and General/ Business Aviation up to Code C. Both will have resource to coordinate the operations, communication with pilots and de-icing rigs operatives and an electronic signage board for visual communications.

1. **Taxiway Foxtrot** (4 positions) - All aircraft are positioned to face south. Taxiway Foxtrot can accommodate 4 aircraft simultaneously (F1, F2, F3 & F4) with aircraft entering via F5 & K1 (from Delta) and exit via F1 onto taxiway Alpha or K1 on to Delta.
2. **South Apron** (3 positions) - All aircraft are positioned to face east. The South Apron can accommodate a maximum of 3 aircraft simultaneously, these aircraft will be able to taxi in/out independently of one another under the guidance of a follow me and marshaller.

3 CAT II/III OPERATIONS

a) Runways 07 and 25, subject to serviceability of the required facilities, are suitable for Category II/III operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II/III operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed by ATIS broadcast or by RTF when these procedures are in operation.
c) Departing Aircraft:

- Runway 25 - ATC will require departing aircraft to use the Alpha 1 holding point.
- Runway 07 - ATC will require departing aircraft to use the Bravo 1 holding point.

Occasionally it may be necessary for other departure points to be used due to work in progress or at the discretion of ATC.

d) Arriving Aircraft:

The appropriate runway exit will be illuminated. Pilots should report 'Runway Vacated' when the aircraft has passed the last of the alternate yellow and green centre-line lights, which denote the extent of the ILS localizer sensitive area.

4 WARNINGS

a) Bird dispersal takes place regularly including the use of pyrotechnics.
b) Grass cutting will take place as required during the summer months.
c) Radio-controlled model aircraft flying takes place during daylight hours, at Coles Lane, Harpenden, adjacent to the M1 between Junctions 9 (VRP) and Junction 10. Pilots should be aware that model aircraft up to 7 KG may be operating in these areas below altitude 1000 FT.
d) Unmanned Aerial Vehicle (UAV) activity takes place during daylight hours, operating on the south western border of Harpenden, adjacent to the M1 between Junction 9 (VRP) and Junction 8 (VRP). Pilots should be aware that UAVs up to 20 KG may be operating in these areas below altitude 1000 FT.
e) In order to minimise possible damage to adjacent aircraft, equipment and structures, pilots of departing propeller-driven aircraft exceeding MTOM 5700 KG and all jet aircraft must use minimum breakaway power if self-manoeuvering off any stand.
f) Possible light distraction on approach to Runway 07. Lights positioned at 515215.44N 0002406.90W.
g) Radio-controlled model aircraft flying and Unmanned Aerial Vehicle (UAV) activity takes place during daylight hours at Harris Lane, Offley, 0.5 NM southeast of Offley VRP. Pilots should be aware that model aircraft and UAVs up to 7 KG may be operating in these areas below altitude 1000 FT.
h) Unmanned Aerial Vehicle (UAV) operations take place within the aerodrome boundary, details of operating times and exact location will be passed by ATC.

5 HELICOPTER OPERATIONS

a) A helicopter landing area is not designated. Helicopters must route inbound and outbound as directed by ATC and should avoid overflying all built-up areas to the south of the Airport.
b) Arriving helicopters must transition over the runway before air or ground taxiing to parking; Departing helicopters must air or ground taxi to a runway holding point and must subsequently, transition over the runway before departing, as instructed by ATC.
c) Helicopter Aiming Point Procedure - Helicopters arriving from or departing to, locations south of the Airport may be cleared to land at or take-off from, either Hotel 1 or Charlie 1. Such helicopters must transition perpendicular over the runway but must not land or take-off using the runway QDM. All other helicopters are required to land or take-off using the runway, for which ATC may issue modified circuit joining and leaving instructions.
d) Helicopters arriving and departing during Low Visibility Procedures must use the runway in use. After arrival, helicopters will taxi to the parking area as directed by ATC. Helicopters parking on the main apron may be provided with guidance by a marshaller.
e) Helicopters inbound from the south may be cleared by ATC to hold at the aerodrome boundary to await onward clearance to cross the runway after departing or landing fixed-wing aircraft. In such circumstances, to avoid interference to ground-based navigation equipment, such helicopters must remain at or south of the aerodrome boundary until able to cross the runway without further holding, and must not hover below 100 FT AAL over the grass area between the southern aerodrome boundary and the runway.

f) Helicopters, except when air taxiing or in the service of a police or health authority and authorised by ATC, must not operate over any apron below a height of 500 FT or fly closer than 500 FT to any associated buildings, vehicle or aircraft.

6 USE OF RUNWAYS

a) Minimum Runway Occupancy Time - Departing Aircraft.

i. On receipt of back-track/line-up clearance, pilots should ensure, commensurate with safety and standard operating procedure, that they are able to taxi into the correct position if not already at the hold, and back-track/line-up on the runway as soon as the preceding aircraft has commenced either its take-off roll or completed its landing run and has passed the holding point. The crew of departing aircraft must inform ATC if they are not ready for departure when instructed by ATC to enter the runway for take-off.
ii. Whenever possible, cockpit checks should be completed prior to line-up and any checks requiring completion when lined-up on the runway should be kept to the minimum required. Pilots should ensure that they are able to commence the take-off roll immediately take-off clearance is issued.
iii. Pilots not able to comply with these requirements should notify ATC as soon as possible once transferred to the Luton Tower frequency.
iv. Pilots are not to cross any illuminated Holding Point Red Stop bars unless specifically instructed to do so by ATC.
v. RWY 07 - Pilots requiring the full runway length should advise ATC when requesting departure clearance.

b) Minimum Runway Occupancy Time - Arriving Aircraft.

i. Pilots are reminded that rapid exit from the runway enables ATC to apply minimum spacing on final approach that will achieve maximum runway utilisation and will minimise the occurrence of 'go-arounds'.
ii. Aircraft vacating the runway via Taxiway Alpha must hold at Holding Point Alpha 4 until further instructed by Luton Ground.
iii. Aircraft vacating the runway via Taxiway Bravo must hold at Holding Point Bravo 5 until further instructed by Luton Ground.
iv. Aircraft vacating the runway via Taxiway Hotel must hold at Holding Point Bravo 6 until further instructed by Luton Ground.
v. Turn-offs from the runway onto Taxiway Charlie are prohibited except when authorised by ATC.

7 TRAINING

a) Conditions of Use.

i. Daily: Available for training 0800-2000 (0700-1900).
ii. Use of the aerodrome for training purposes is subject to prior permission from London Luton Airport Operations Ltd and acceptance by Air Traffic Control having regard to tactical traffic situation.
iii. All visiting and Luton based operators and aircrew requesting to undertake training flights at Luton whether landing or not, must contact Airport Operations by telephone: 01582-395525. The filing of a flight plan for a training flight does not in itself imply permission or ATC acceptance.
iv. Training aircraft using Runway 25 must climb straight ahead to 500 FT AAL, must track 215º M until reaching height 1500 FT; aircraft using Runway 07 must not turn crosswind until reaching height 1500 FT AAL, unless otherwise instructed by ATC.
v. The simulation of engine failures is not permitted.

b) Circuits.

i. Circuits by propeller-driven aircraft whose Maximum Take Off Mass exceeds 5700 KG and by all jet aircraft on training flights will be carried out at the minimum circuit height of 2500 FT QFE, unless otherwise instructed by ATC. Runway 07 – right hand circuits Runway 25 – left hand circuits.
ii. Circuits by propeller-driven aircraft whose MTOM does not exceed 5700 KG shall be carried out at the minimum circuit height of 1000 FT QFE.

EGGW AD 2.21 NOISE ABATEMENT PROCEDURES

All aircraft inbound or outbound from this aerodrome are required to conform to the following procedures, for more details please refer to Aircraft Noise Control at LLA available on: http://www.london-luton.co.uk/corporate/community/noise/minimising-noise. Notwithstanding that these may at any time be deviated from to the extent necessary for avoiding immediate danger.

1 GENERAL

a) Every operator of aircraft whilst within or directly above the aerodrome shall ensure that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the aerodrome.
b) Unless on radar vectors, aircraft shall avoid any populated areas.
c) Any aircraft shall, after take-off, be operated in such a way that it will not cause more than 79 dBA by day (0700-2300 (0600-2200)) or 78 dBA by night (2300-0700 (2200-0600)) at any noise monitoring terminal at any of the sites referred to in the table below:

Description	Postcode	OS Co-ordinates	Latitude (DMS)	Longitude (DMS)
NMT1: Frogmore, Stagenhoe Bottom Farm	SG4 8NG	TL 1759 2260	51°53’22N	0°17’33W
NMT2: Grove Farm, Slip End	LU1 4DB	TL 0766 1774	51°50’52N	0°26’18W

NMT3: Pepsal End Farm, Pepperstock	LU1 4LH	TL 0861 1727	51°50'36N	0°25'29W

2 TAKE-OFF AND MISSED APPROACH

a) Every jet aircraft using the aerodrome shall, after take-off or 'go-around' attain as soon as safety permits, a rate of climb of at least 500 FT per minute at power settings which will ensure progressively decreasing noise levels at points on the ground under the flight path.

3 CONTINUOUS DESCENT APPROACHES

a) All jet aircraft and all propeller-driven aircraft whose MTOM exceeds 5700 KG, are expected to apply Continuous Descent Approach (CDA) procedures to all approaches to Runway 07 and Runway 25. Subject to ATC clearance, inbound aircraft are to minimise noise disturbance by the use of continuous descent and low power, low drag operating procedures.
b) Where the use of these procedures is not practicable, the aircraft shall maintain as high an altitude as possible. Radar vectors will be given, and descent clearance will include an estimate of track distance to touchdown.
c) In addition, when descending on initial approach, including the closing heading, and on intermediate and final approach, thrust reductions should be achieved where possible by maintaining a clean aircraft configuration and by landing with reduced flap, provided that in all the circumstances of the flight this is consistent with safe operation of the aircraft.
d) CDA will commence from 5000 FT QNH and will be deemed to have been continuous provided that no segment of level flight longer than 2.5 NM.

4 VISUAL CIRCUITS/APPROACHES

a) Aircraft approaching without assistance from ILS or radar shall follow a descent path no lower than the normal approach path indicated by the PAPIs.
b) With the exception of training aircraft as described in Local Traffic Regulations, paragraph 7 'Training' above, propeller-driven aircraft whose MTOM exceeds 5700 KG and all jet aircraft carrying out visual circuits/approaches to Runways 07 and 25 shall establish on final approach no closer than 7 NM from touchdown. Additionally, such aircraft shall not, unless otherwise instructed by ATC, descend below 2500 FT (Luton QNH) before commencing final approach.
c) Aircraft must not join the final approach track to any runway at an altitude of less than 2500 FT (Luton QNH), orbits on final approach will not be authorised by ATC, except when the safety of an aircraft would be compromised.

5 NOISE PREFERENTIAL ROUTINGS

a) The Noise Preferential Routings and Procedures specified in the table below are compatible with ATC requirements and shall apply in both VMC and IMC. The tracks are to be flown by all departing jet aircraft and by all other aircraft with a maximum certified weight exceeding 5700 KG unless otherwise instructed by ATC or unless deviations are required in the interests of safety. The radius of turn of aircraft following the routes and procedures specified in the following table shall be adjusted to conform with the tracks shown on the diagram on page AD 2-EGGW-3-1.
b) The obligations of Noise Preferential Routings for conventional SIDs cease when a height of 3000 FT QNH (between 0700-2300 (0600-2200)) and 4000 FT QNH (during night time, 2300-0700 (2200-0600)) has been reached. The obligations of Noise Preferential Routings for the RNAV1 SIDs cease when a height of 4000 FT QNH has been reached.
c) A departure will be deemed to have complied with the Noise Preferential Routing if, in the portion of flight below the appropriate vectoring altitude (see 5 (b) above), it is properly recorded by the airport's noise and track monitoring system as having flown wholly within the Lateral Swathe (LS). Where the aircraft is clearly flying outside the LS, the aircraft is identified as causing a "possible" track violation and is subject to a nominal fine, as defined in LLA's Charges and Conditions of Use.

Take-off Run-way	ATC Clearance	Procedure	Take-off Run-way	ATC Clearance	Procedure
25	OLNEY KILO/Juliet	Climb straight ahead to 500 FT (AAL) turn left to intercept BNN VOR R031. At BNN D7 turn right onto HEN QDM 255°. At BNN VOR R003 turn right onto BNN VOR R344. Crossing BNN R344/ D6 at 4000.	07	OLNEY Sierra	Climb straight ahead. At I-LTN D3.4 turn left to intercept BPK VOR R313.
	Rodni Papa	Climb straight ahead to 500 FT (AAL) turn left to intercept BNN VOR R031. At BNN D7 turn right onto HEN QDM 255° ensuring that BNN DME does not decrease below 4 NM.		Rodni Uniform/ Victor	Climb straight ahead. At I-LTN D3.8 turn right onto HEN QDM 256°. Ensure that BNN DME does not decrease below 4 NM. (See Note 3)
	Non – RNAV MATCH/Detling MIKE	Climb straight ahead to 500 FT AAL turn left to intercept BNN VOR R031. At BNN D7 turn left onto BPK VOR R283.		MATCH/ Detling TANGO	Climb straight ahead to LUT NDB (I-LTN D4.7), then turn right to intercept BPK VOR R335.
	RNAV MATCH/ Detling	Climb straight ahead to 1030 FT QNH, then turn left direct GWS01, then to GWS06, left to GWS12, right to GWE16, GWE19, BPK VOR. (See Note 2)			

Note 1: *The Noise Preferential Routeings specified above are compatible with normal ATC requirements, however in individual cases ATC may vary them when necessary. The use of the routeings is supplementary to noise abatement take-off techniques as used by piston-engined, turboprop and turbo-jet aircraft.*

Note 2: *Unless otherwise instructed by ATC, aircraft departing from Runway 25 for RNAV MATCH/DETLING will be routinely kept within the NPR corridor until crossing the railway line (GWE) between St. Albans and Harpenden.*

Note 3: *Unless otherwise instructed by ATC, aircraft departing from Runway 07 for RODNI, UNIFORM/VICTOR must remain at 4000 FT (Luton QNH) until west of Radial 037 from Bovingdon VOR.*

Note 4: *The crossing points and altitudes are detailed at AD 2-EGGW-6-1 to 6-6 charts of the Standard Instrument Departure procedures for aircraft departing the airport via the Airways System. The Standard Departure Route procedures for aircraft departing outside the Airways System are detailed at AD 2-EGGW-6-7 to 6-9.*

6 GROUND RUNNING AND TESTING OF AIRCRAFT ENGINES

a) The ground running and testing of the engines of any aircraft other than at ground idle power setting shall be carried out only in the designated areas.
b) The aircraft shall be positioned in such a manner that the jet blast will not impinge on any runway, taxiway, aircraft, equipment installation, or other property of the airport or third party.
c) ATC shall be notified by radio at the commencement and cessation of each run and the following information should be provided:

   i. The aircraft's registration number or letters;
   ii. The aircraft's position on the airport;
   iii. The percentage power setting anticipated; and
   iv. The expected duration of the engine run.

d) A single engine run at ground idle power settings may be undertaken provided that:

   i. the aircraft is positioned so as to cause no damage or inconvenience to persons or property;
   ii. the engine run does not exceed 10 minutes;
   iii. a person is at all times in attendance outside the aircraft to ensure the safety of persons and property during the engine run;
   iv. Continuous radio contact is maintained with air traffic control, from whom permission to start the engine(s) must be obtained and to whom notification must be given when the engine run is completed.

e) Engine ground running and testing will normally be permitted within the following periods:

   i. Weekdays: between 0600-2300 (0500-2200)
   ii. Saturdays, Sundays and Public Holidays: between 0700-2300 (0600-2200);
   iii. In exceptional circumstances, operators can apply to Airport Operations for permission to operate outside this period.

7 NIGHT NOISE RESTRICTIONS

a) Chapter 2 aircraft are not permitted to operate during the periods of 2300-0700 (2200-0600);
b) The aircraft with a QC value of greater than 1 must not operate during the night period.
c) All departure flights recording a level above 78 dB, 6.5 KM from 'start of roll' during the night period will be subject to a nominal fine, as defined in LLA's Charges and Conditions of Use.
d) Aircraft scheduled (SIBT) to arrive during the early morning shoulder period 0615-0705 (0515-0605), will not be accepted earlier than 0600 (0500).
e) Aircraft scheduled (SIBT) to arrive during the day period 0710-2300 (0610-2200) will not be accepted earlier than 0700 (0600).

8 NOISE ABATEMENT PROCEDURES FOR HELICOPTERS

a) Fixed-wing aircraft and helicopters operating under VFR or SVFR to the south of Luton Airport should endeavour to avoid overflying built-up areas and isolated properties south of the boundary.

EGGW AD 2.22 FLIGHT PROCEDURES

1 THE ARRIVAL CODE OF PRACTICE (ACOP) AND DEPARTURE CODE OF PRACTICE (DCOP)

The voluntary Code of Practice has been compiled by Flight Operations and Air Traffic Control to give advice on the operational techniques aimed at improving the environmental impacts of aircraft operations through operational best practice. The Arrival Code of Practice (ACOP) and Departure Code of Practice (DCOP) can be found on the LLA website - https://www.london-luton.co.uk/corporate/lla-publications/operations. Nothing in this Code shall take precedence over the requirement for safe operation and control of aircraft at all times. For the avoidance of doubts, all recommendations are to be read as being subject to the requirements of safety and manufacturer/aircraft flight manual limits.

2 PROCEDURES FOR INBOUND AIRCRAFT UNDER IFR

a) Inbound via the ATS Route Network

i. The Standard Arrival Routes (STAR) for aircraft inbound to London Luton are shown at AD 2-EGGW-7-STAR Charts.
ii. The Terminal Holding facility at ABBOT is shared with arrivals to both London Stansted and Cambridge airports and therefore some STAR designators are shared. The Terminal Holding facility at ZAGZO is for London Luton arrivals only.

b) Inbound other than on Airways

i. Aircraft wishing to enter the Luton CTR/CTA direct from the London FIR should obtain ATC clearance at least 10 minutes before reaching the CTR or CTA boundary, when they will be advised of the route to be followed consistent with the current traffic situation.
ii. Aircraft arriving from the north and northeast should expect to route via a Reporting Point BIGLI (520748N 0001430W, BKY VOR/DME fix R309/D14; BNN VOR/DME fix R027/D27) established beneath the London TMA (base 5500 FT QNH).
iii. For aircraft receiving a service from London Military Radar, co-ordination procedures have been agreed between Luton ATC and London Military involving the use of BIGLI. There is no holding procedure associated with BIGLI.
iv. Aircraft must not enter Controlled Airspace unless specific clearance to do so has been given.

c) Approach Procedures – with Radar Control

i. When inbound traffic is being sequenced by Radar, the Approach procedure will be flown from under directions from the appropriate Radar Controller, and will consist of that part of the approach between the holding pattern and the Final Approach Track.
ii. Once the aircraft is under Approach Radar Control, changes of Flight Level/Altitude and heading will be made only under instructions from the Radar Controller, except in cases of radio communications failure in the aircraft or at the Radar Unit.
iii. Headings and Flight Levels/Altitudes will be passed by ATC. When holding is not necessary, radar vectors will be given prior to the aircraft reaching the holding pattern and descent clearance will include an estimate of track distance to touchdown.
iv. Further distance information will be given between initial descent clearance and intercept heading to the ILS. On receipt of descent clearance, the pilot will descend at the rate he judges will be best suited to the achievement where possible, of continuous descent, the objective being to join the glidepath at the appropriate height for the distance, without recourse to level flight.
v. Between the hours of 2300-0700 (2200-0600), all jet aircraft and all propeller driven aircraft whose MTOM exceeds 5700 KG, irrespective of the type of approach, are to be vectored onto a closing heading which will position the aircraft for Runway 25 on final approach no closer than 8 NM from touchdown and for Runway 07 no closer than 10 miles from touchdown. Descent below 3000 FT QNH is not to be given until 10 NM from touchdown.
vi. Pilots should typically expect the following speed restrictions to be enforced:
220 KT from the holding facility during the intermediate approach phase;
180 KT on base leg/closing heading to the ILS;
180-160 KT when first established on the ILS;
165 KT +/-5 to 5 DME.
vii. These speeds are applied for ATC separation purposes and are mandatory. In the event of a new (non-speed related) ATC clearance being issued (eg an instruction to descend on ILS), pilots are not absolved from a requirement to maintain a previously allocated speed. All speed restrictions are to be flown as accurately as possible. Aircraft unable to conform to these speeds should inform ATC and state what speeds will be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as feasible within their own operational constraints, advising ATC if circumstances necessitate a change of speed for aircraft performance reasons.
viii. The spacing provided between aircraft will be designed to achieve the maximum runway utilisation within the parameters of safe separation minima (including wake turbulence) and runway occupancy. It is important to the validity of the separation provided that runway occupancy time is kept to a minimum consistent with the prevailing conditions.
ix. Pilots of IFR flights inbound to Luton airport will be vertically or laterally separated from all gliding activity north of and below final approach track to Runway 07.
x. In the event of radio communications failure at the Radar Unit, pilots should contact Luton Tower for further instructions.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) All jet aircraft and all propeller driven aircraft whose MTOM exceeds 5700 KG departing London Luton Airport, whether routing inside or outside Controlled Airspace, are required to follow Noise Preferential Routes.
b) The Standard Instrument Departure Procedures for aircraft departing from London Luton Airport via the Airways System are detailed at AD 2-EGGW-6-1 to 6-6.
c) The Standard Departure Route procedures for aircraft departing IFR outside the Airways System are detailed at AD 2-EGGW-6-7 to 6-9.
d) ATC clearance is available from Luton Ground RTF 121.755 MHz, up to 20 minutes prior to aircraft flight planned departure time.
e) Departure Speed Restriction: In order to optimise the departure flow and assist in the separation between successive departing aircraft a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase 'No ATC Speed Restriction'. Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation. See AD 2-EGGW-6-2 and 6-3.
f) If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation
g) Positioning flights to London Heathrow Airport or Northolt will be cleared to BNN VOR via Non-Airways Departure Routes November or Uniform as appropriate, and will be allocated a level within controlled airspace prior to departure.
h) It is imperative that pilots of departing aircraft inform ATC on start-up if they anticipate an initial climb and/or acceleration performance that is likely to be significantly less than 'normal' for their aircraft type.

4 RADIO COMMUNICATIONS FAILURE PROCEDURES

In the event of complete radio communication failure in an aircraft, the pilot is to adopt the appropriate procedures notified in ENR 1.1 Section 3 Paragraph 3.4, with the exceptions described below.

a) Inbound Aircraft via ZAGZO †

i. When complete communication failure occurs in the aircraft before ETA, or before EAT, when this has been received and acknowledged the aircraft will:

1. fly to the ZAGZO † holding point (as detailed at AD 2-EGGW-7-STAR Charts);
2. hold at the last assigned level until the last acknowledged ETA plus 10 minutes, or EAT when this has been given;
3. then commence descent for landing in accordance with the RNAV1 Approach Transitions from ZAGZO.

ii. If complete radio communication failure occurs after an aircraft has reported to ATC on reaching the holding point the aircraft will:

1. hold the last assigned level at ZAGZO † until:

ATA over the holding point plus 10 minutes or 10 minutes after the last acknowledged communication with ATC whichever is the later; or

EAT when this has been received and acknowledged;

2. then commence descent for landing in accordance with the RNAV1 Approach Transitions from ZAGZO.

iii. When radio communication failure occurs during intermediate approach (initial) under radar control.

In the event of radio failure after instructions to leave the ZAGZO † hold with the intention of a direct radar assisted approach, but before being given approach clearance, the following procedure should be adopted:

1. continue descent to the assigned altitude or maintain last assigned altitude;
2. proceed to the LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13);
3. hold at the LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13) for 5 minutes (as shown in the AIP charts);
4. descend in the holding pattern to 2000 FT QNH and commence an ILS/NDB approach;
5. in the event of a missed approach, follow the Missed Approach procedure to LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13) and adopt the basic radio failure procedure detailed at ENR 1.1 Section 3 Paragraph 3.4.

iv. The route and level to be used when leaving CAS in accordance with the procedures given at ENR 1.1 Section 3 Paragraph 3.4 are shown in the table below:

Position at time of decision	Route
ZAGZO LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13)	Turn right onto track 360° M at last assigned level. Turn onto track 334° M at not above 3000 FT ALT.

b) Inbound Aircraft via ABBOT ‡‡

i. When complete communication failure occurs in the aircraft before ETA, or before EAT, when this has been received and acknowledged the aircraft will:

1. fly to the ABBOT ‡‡ holding point (as detailed at AD 2-EGGW-7-6 and AD 2-EGGW-7-7 STAR Charts);
2. hold at the last assigned level until the last acknowledged ETA plus 10 minutes, or EAT when this has been given;
3. then commence descent for landing in accordance with the Initial Approach Procedures from ABBOT. For Runway 07 arrivals from ABBOT, descend in the LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13) holding pattern from 4000 FT ALT to 2000 FT ALT and then carry out the appropriate instrument approach procedure for the runway in use and effect a landing within 30 minutes (or later if able to continue visually).

ii. If complete radio communication failure occurs after an aircraft has reported to ATC on reaching the holding point the aircraft will:

1. hold the last assigned level at ABBOT ‡‡ until:

ATA over the holding point plus 10 minutes or 10 minutes after the last acknowledged communication with ATC whichever is the later; or

EAT when this has been received and acknowledged;

2. then commence descent for landing in accordance with the Initial Approach Procedures from ABBOT. For Runway 07 arrivals from ABBOT, descend in the LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13) holding pattern from 4000 FT ALT to 2000 FT ALT and then carry out the appropriate instrument approach procedure for the runway in use and effect a landing within 30 minutes (or later if able to continue visually).

iii. When radio communication failure occurs during intermediate approach (initial) under radar control. In the event of radio failure after instructions to leave the ABBOT ‡‡ hold with the intention of a direct radar assisted approach, but before being given approach clearance, the following procedure should be adopted:

1. Continue descent to the assigned altitude or maintain last assigned altitude;
2. proceed to the LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13);
3. hold at the LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13) for 5 minutes (as shown in the AIP charts);

4. descend in the holding pattern to 2000 FT QNH and commence an ILS/NDB approach;
5. in the event of a missed approach, follow the Missed Approach procedure to LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13) and adopt the basic radio failure procedure detailed at ENR 1.1 Section 3 Paragraph 3.4.

iv. The route and level to be used when leaving CAS in accordance with the procedures given at ENR 1.1 Section 3 Paragraph 3.4 are shown in the table below:

Position at time of decision	Route
ABBOT LUT NDB (I-LTN D4.7/I-LJ D3.9, BKY VOR R244/D13)	Turn right onto track 360° M at last assigned level. Turn onto track 334° M at not above 3000 FT ALT.

c) Outbound Aircraft

i. Comply with the route and altitude limitations detailed in the allocated Luton Instrument Departure Procedure detailed at AD 2-EGGW-6 or ATC clearance and commence climb to flight planned level after the last position at which an altitude is specified.
ii. When a radar heading has been issued, climb on the assigned heading to the first altitude of Flight Level detailed in the clearance, maintain the heading and level for three minutes, then adopt the basic procedure detailed at ENR1.1 Section 3 Paragraph 3.4.

5 SPECIAL VFR FLIGHT

a) Special VFR clearance for flights within the London Luton CTR may be requested and will be given whenever the traffic conditions permit. These flights are subject to the general conditions laid down at ENR 1.2.

Note: *Note: Pilots holding a Private Pilot Licence (Aeroplanes) are reminded of the flight visibility requirements for Special VFR flight laid down in Schedule 7 of the Air Navigation Order 2009 and the related notification at ENR 1-4.*

b) Aircraft may be given radar vectoring whilst within the CTR if, due to the traffic situation, ATC considers it necessary. Pilots are reminded that they must at all times when operating on a Special VFR Clearance, remain clear of cloud and in sight of the surface, and in flight conditions which will enable them to determine their flight path and remain clear of obstacles. Pilots must inform the radar controller if compliance with these requirements entails a change of heading or level.
c) Pilots are reminded that a Special VFR clearance applies only to flight within the CTR and does not extend to flight within the surrounding airspace of the London TMA or London Stansted Airspace.
d) In order to reduce conflict with IFR flights, Special VFR flights will normally be cleared not above 1500 FT (Luton QNH).

6 VFR FLIGHTS

a) VFR flights in the London CTR/CTA will be given routeing instructions and/or altitude restrictions in order to integrate VFR flights with other traffic.
b) Pilots should anticipate clearance and routeing instructions via Entry/Exit Lanes and VRPs detailed below. Additionally, pilots of fixed-wing VFR and Special VFR aircraft inbound from the north may be instructed by ATC to route via or hold at Offley VRP in order to integrate with landing traffic.
c) Traffic information will not normally be given to aircraft operating outside the London Luton CTR/CTA, and not in receipt of a LARS from Luton Radar, due to the large amount of traffic operating in adjacent areas.
d) Entry/Exit Lanes

i. North/South Lanes

1. A lane 1.5 NM wide known as the North Lane, with centre-line being a line joining the Church at Pirton (Pirton VRP) the bridge over the A505 at Offley (Offley VRP) and the mid-point of Luton Runway 07/25;
2. A lane 1.5 NM wide known as the South Lane, with centre-line being a line joining M1 Junction 8 VRP, the railway bridge at East Hyde (Hyde VRP) and the mid-point of Luton Runway 07/25;

ii. use of the lanes is subject to Special VFR clearance being obtained from Luton ATC;
iii. pilots are responsible for providing their own separation from other aircraft within the entry/exit lanes, however, traffic information will be given when requested or as deemed necessary by Luton ATC;

e) VFR Helicopters

i. VFR helicopters inbound to, departing from or overflying London Luton Airport will normally be required to route via tracks joining the following VRPs, in order to minimise noise impact on the ground and to ensure integration with arriving and departing flights.

- From/To the North:

  Pirton VRP- Offley VRP.

- From/To the South and Southeast:

  A1(M), Junction 4 VRP - Kimpton Hall VRP - Hyde VRP.

- From/To the South and Southwest

  M1, Junction 8 VRP - M1, Junction 9 VRP - Hyde VRP.

- From/To London Stansted:

  Puckeridge A10/A120 INT VRP - Kimpton Hall VRP - Hyde VRP.

  † VFR helicopters departing London Luton should identify their preferred routing when booking out. See AD 2-EGGW-4-1 for Luton CTR/CTA chart.

ii. Helicopters will typically be issued with VFR clearances not above 1500 FT AMSL, however pilots are requested to maintain the highest possible level in accordance with the clearance to minimise noise impact on the ground.

7 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

8 GLIDING, HANG-GLIDING, PARAGLIDING AND MICROLIGHT ACTIVITY - LUTON CTR/CTA

Pilots are advised that by arrangement with Luton ATC:

a) Intense gliding, hang-gliding and paragliding activity takes place with winch cables up to 2500 FT QNH during daylight hours at Dunstable Downs (515200N 0003254W) within the following areas (as depicted in AD 2-EGGW-4-1):

Area 1 bounded by: 515227N 0004006W - 515511N 0002426W - 515240N 0002704W - 515133N 0003327W - 515135N 0003730W - 515114N 0003938W - 515227N 0004006W up to 3500 FT QNH.

Area 2 bounded by: 515134N 0003516W - 515133N 0003327W - 515151N 0003144W - 515132N 0003135W - 515056N 0003459W - 515134N 0003516W up to 1500 FT QNH.

Area 3 bounded by: 515131N 0003754W - 515135N 0003730W - 515134N 0003516W - 515056N 0003459W - 515031N 0003726W - 515131N 0003754W up to 2000 FT QNH.

Area 4 bounded by: 515258N 0003709W - 515522N 0003427W - 515350N 0003212W - 515258N 0003709W up to 4500 FT QNH.

Area 5 bounded by: 515150N 0004336W - 515227N 0004006W - 515114N 0003938W - 515135N 0003730W - 515133N 0003327W - 515240N 0002704W - 514942N 0003313W - 514810N 0004155W - 515150N 0004336W up to 3500 FT QNH.

Area 6a bounded by: 515131N 0003754W - 515310N 0003116W - 514942N 0003313W - 514634N 0003538W - 515131N 0003754W up to 1500 FT QNH.

Area 6b bounded by: 515244N 0003828W - 515350N 0003212W - 515310N 0003116W - 515131N 0003754W - 515244N 0003828W up to 2500FT QNH.

With the exception of the Class G airspace below CTA-3 (from surface to 2500 FT), use of these areas is strictly controlled by a Letter of Agreement with the London Gliding Club, the Dunstable Hang-gliding and Paragliding Club and other parties. Visiting pilots wishing to use these areas must be fully briefed by either the London Gliding Club or the Dunstable Hang-gliding and Paragliding Club as to the conditions imposed upon gliding operations and hang-glider and paragliding operations.

Some areas are not in force when Luton Runway 07 is in use, however for the purposes of this paragraph, all of the above areas can be assumed to be active.

b) Microlight and fixed wing activity takes place during daylight hours at Graveley (515628N 0001212W) within the following area (as depicted in AD 2-EGGW-4-1) and this is also governed by a Letter of Agreement.

Area 7 bounded by: 515841N 0001606W - 515857N 0001434W - thence clockwise by the arc of a circle radius 8 NM centred on 515228N 0002206W - 515556N 0001025W - 515541N 0001129W - 515541N 0001311W - 515646N 0001243W - 515841N 0001606W up to 1000 FT QNH.

c) Pilots of IFR flights inbound to Luton airport will be vertically or laterally separated from all gliding or microlight activity within these areas through the application of normal ATC procedures.

d) Pilots of aircraft operating under VFR, or on a Special VFR clearance are advised to avoid these areas if at all possible. In addition, pilots operating on a Special VFR clearance are advised that due to the nature of these activities they cannot be given separation from gliders, aircraft towing gliders, hang-gliders, paragliders or microlights within these designated areas. Traffic information will NOT be passed by ATC.

9 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Luton controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Luton Radar frequency, 129.550 MHz, are encouraged to select SSR code 0013.

514459N 0000624W - 520311N 0000141W -
521109N 0000102W - 521104N 0002159W -

521126N 0002220W - 520316N 0003441W -
515749N 0004048W - 515356N 0005006W -
514015N 0005348W - 514027N 0003627W -
514111N 0001345W - 514459N 0000624W.

b) Selection of 0013 does not imply the receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Luton controlled airspace at all times.

c) Whilst squawking 0013, pilots should be aware that Luton Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.

d) When a pilot ceases to maintain a listening watch, code 0013 shall be deselected.

EGGW AD 2.23 ADDITIONAL INFORMATION

a) Mode S Barometric Pressure Setting Data

London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

EGGW AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGGW-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGGW-2-2
AIRCRAFT GROUND MOVEMENT - REMOTE DE-ICING LOCATION CHART - ICAO
AD 2.EGGW-2-3
NOISE PREFERENTIAL ROUTEINGS
AD 2.EGGW-3-1
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGGW-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGGW-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 07 25 MATCH 3B 2C DET 8B 7C - ICAO
AD 2.EGGW-6-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 25 MATCH 3Y - ICAO
AD 2.EGGW-6-2
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 25 DET 3Y - ICAO
AD 2.EGGW-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 07 25 RODNI 1B 1C - ICAO
AD 2.EGGW-6-4
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 25 OLNEY 2B - ICAO
AD 2.EGGW-6-5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 07 OLNEY 2C - ICAO
AD 2.EGGW-6-6
STANDARD DEPARTURE CHART - INSTRUMENT (SID) NON-AIRWAY DEPARTURES RWY 07 - ICAO
AD 2.EGGW-6-7
STANDARD DEPARTURE CHART - INSTRUMENT (SID) NON-AIRWAY DEPARTURES RWY 25 - ICAO
AD 2.EGGW-6-8
STANDARD DEPARTURE CHART - INSTRUMENT (SID) NON-AIRWAY DEPARTURES to Stansted - ICAO
AD 2.EGGW-6-9
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 25 MATCH 3Y
AD 2.EGGW-6-10
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 25 DET 3Y
AD 2.EGGW-6-11
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) UNDUG 1N SIRIC 1N - ICAO
AD 2.EGGW-7-1
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) TELTU 1N - ICAO

AD 2.EGGW-7-2
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) MEGEL 1N RINIS 1N XAMAN 1N TOSVA 1N - ICAO
AD 2.EGGW-7-3
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) FINMA 1N SILVA 1N - ICAO
AD 2.EGGW-7-4
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) LISTO 1N - ICAO
AD 2.EGGW-7-5
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) LOGAN 2A DET 2A - ICAO
AD 2.EGGW-7-6
STANDARD INSTRUMENT ARRIVAL CODING TABLES UNDUG 1N SIRIC 1N
AD 2.EGGW-7-7
STANDARD INSTRUMENT ARRIVAL CODING TABLES TELTU 1N MEGEL 1N
AD 2.EGGW-7-8
STANDARD INSTRUMENT ARRIVAL CODING TABLES RINIS 1N XAMAN 1N
AD 2.EGGW-7-9
STANDARD INSTRUMENT ARRIVAL CODING TABLES TOSVA 1N SILVA 1N FINMA 1N
AD 2.EGGW-7-10
STANDARD INSTRUMENT ARRIVAL CODING TABLES LISTO 1N LOGAN 2A DET 2A
AD 2.EGGW-7-11
RNAV HOLD CODING TABLES ADLOG HON MUCTE UNDUG VATON WOBUN ZAGZO
AD 2.EGGW-7-12
RNAV HOLD CODING TABLES ABBOT LOGAN
AD 2.EGGW-7-13
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 07 ZAGZO 1Q - ICAO
AD 2.EGGW-7-14
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 25 ZAGZO 1T - ICAO
AD 2.EGGW-7-15
APPROACH TRANSITIONS CODING TABLES RWY 07 ZAGZO 1Q RWY 25 ZAGZO 1T
AD 2.EGGW-7-16
INITIAL APPROACH PROCEDURE ILS RWY 07 Without Radar Control - via ABBOT
AD 2.EGGW-7-17
INITIAL APPROACH PROCEDURE ILS RWY 25 Without Radar Control - via ABBOT
AD 2.EGGW-7-18
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 07 - ICAO
AD 2.EGGW-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 07 - ICAO
AD 2.EGGW-8-2
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 07 - ICAO
AD 2.EGGW-8-3
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 25 - ICAO
AD 2.EGGW-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 25 - ICAO
AD 2.EGGW-8-5
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 25 - ICAO
AD 2.EGGW-8-6
INSTRUMENT APPROACH CHART NDB(L) RWY 25 - ICAO
AD 2.EGGW-8-7

EGGW AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

AERODROME CHART - ICAO

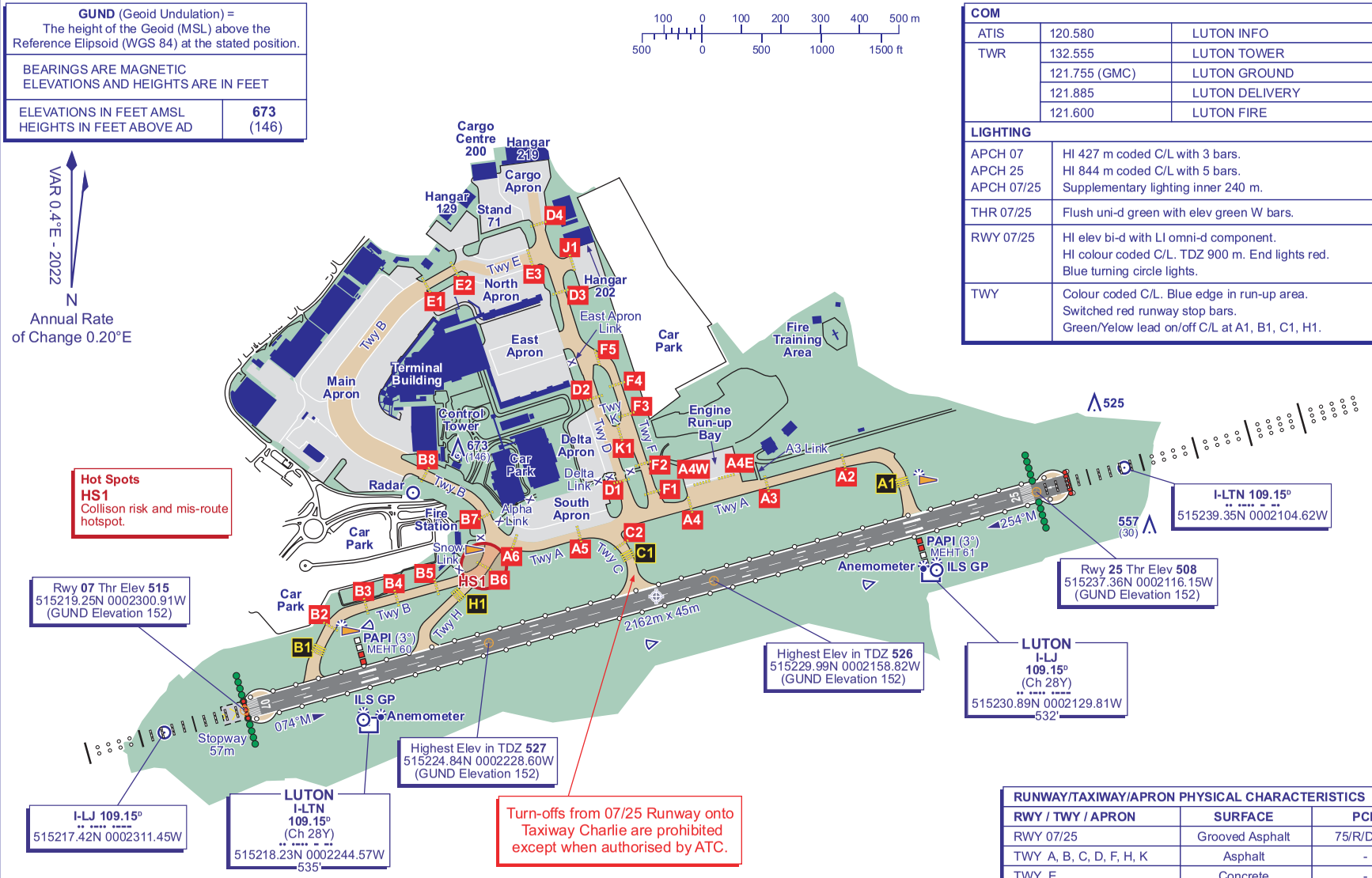
ARP 515229N 0002206W

AD ELEV 527FT

LONDON LUTON
EGGW

AERO INFO DATE 11 AUG 25

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**673** (146)



Hot Spots
HS1
Collison risk and mis-route hotspot.

Rwy **07** Thr Elev **515**
515219.25N 0002300.91W
(GUND Elevation 152)

I-LJ 109.15°
515217.42N 0002311.45W

LUTON
I-LTN
109.15°
(Ch 28Y)
515218.23N 0002244.57W
535'

Highest Elev in TDZ **527**
515224.84N 0002228.60W
(GUND Elevation 152)

Turn-offs from 07/25 Runway onto Taxiway Charlie are prohibited except when authorised by ATC.

Highest Elev in TDZ **526**
515229.99N 0002158.82W
(GUND Elevation 152)

LUTON
I-LJ
109.15°
(Ch 28Y)
515230.89N 0002129.81W
532'

I-LTN 109.15°
515239.35N 0002104.62W

Rwy **25** Thr Elev **508**
515237.36N 0002116.15W
(GUND Elevation 152)

COM		
ATIS	120.580	LUTON INFO
TWR	132.555	LUTON TOWER
	121.755 (GMC)	LUTON GROUND
	121.885	LUTON DELIVERY
	121.600	LUTON FIRE

LIGHTING	
APCH 07 APCH 25 APCH 07/25	HI 427 m coded C/L with 3 bars. HI 844 m coded C/L with 5 bars. Supplementary lighting inner 240 m.
THR 07/25	Flush uni-d green with elev green W bars.
RWY 07/25	HI elev bi-d with LI omni-d component. HI colour coded C/L. TDZ 900 m. End lights red. Blue turning circle lights.
TWY	Colour coded C/L. Blue edge in run-up area. Switched red runway stop bars. Green/Yelow lead on/off C/L at A1, B1, C1, H1.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**PCN**
RWY 07/25	Grooved Asphalt	75/R/D/X/T
TWY A, B, C, D, F, H, K	Asphalt	-
TWY E	Concrete	-
Aprons (All)	*See AD 2-EGGW-2-2*	

CHANGE (11/25): MODIFIED ENGINE RUN-UP BAY. NEW HOLDS A4E & A4W.

AIRCRAFT PARKING/DOCKING CHART - ICAO

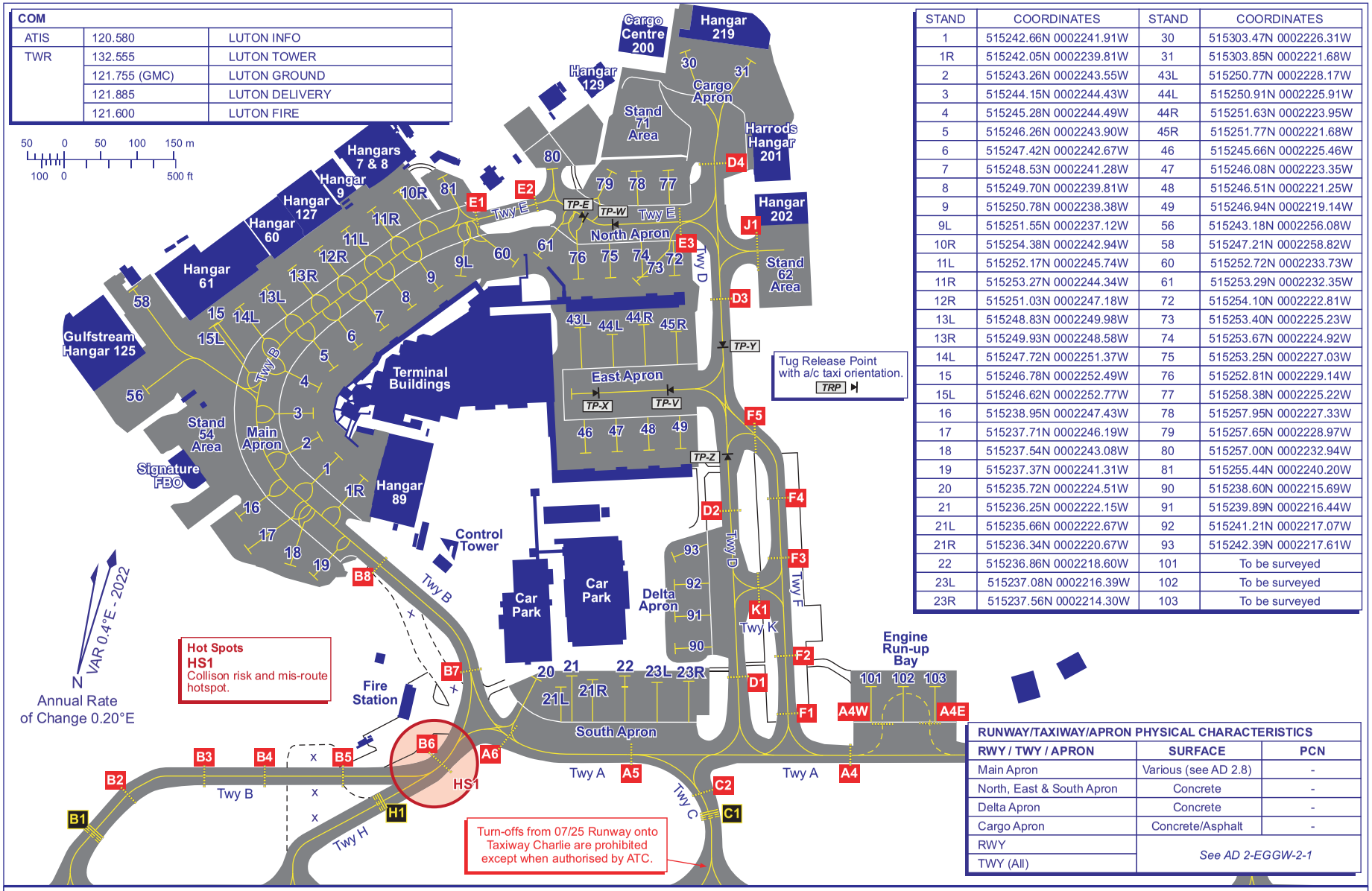
ARP 515229N 0002206W

AD ELEV 527FT

LONDON LUTON
EGGW

AERO INFO DATE 26 AUG 25

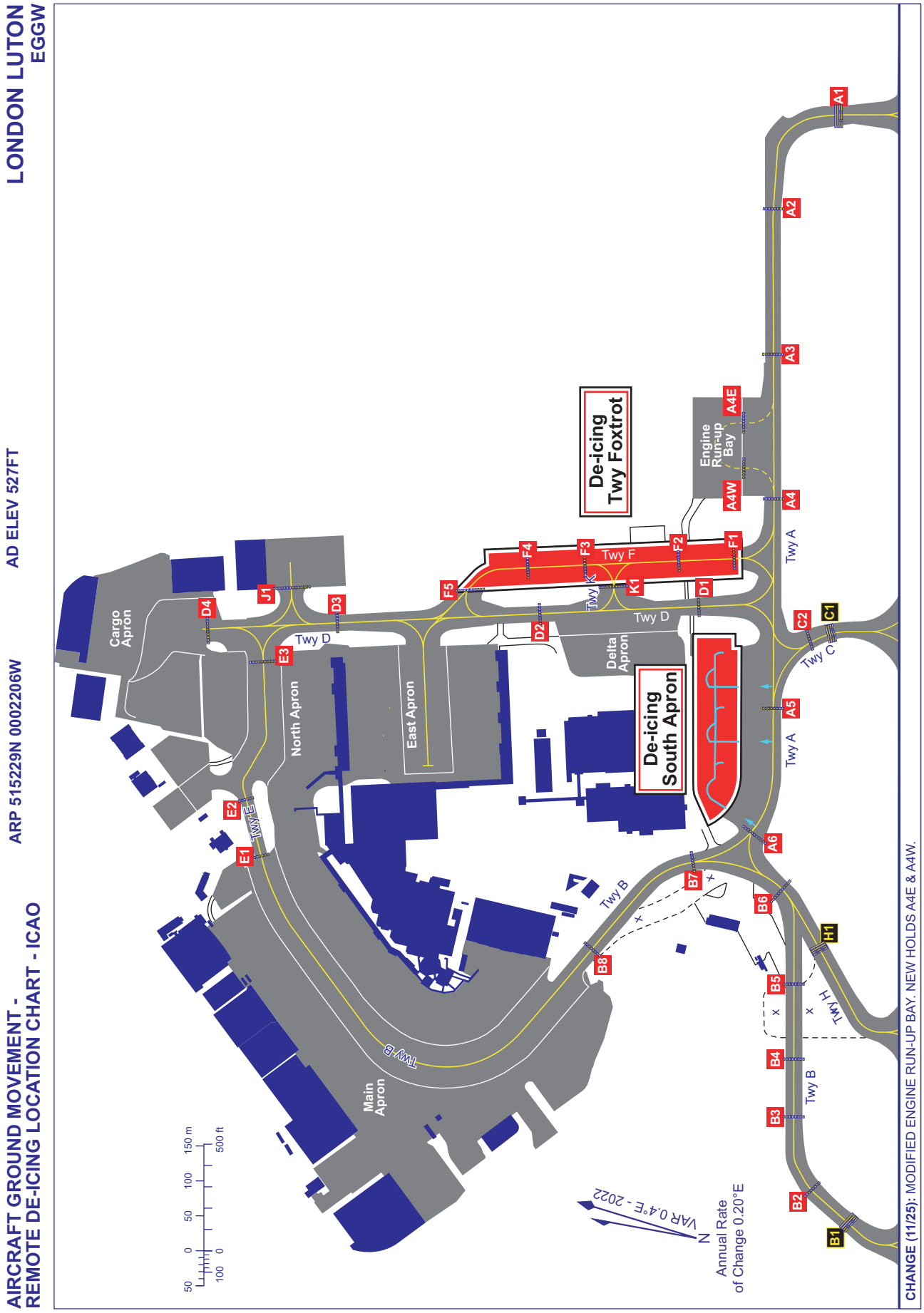
COM		
ATIS	120.580	LUTON INFO
TWR	132.555	LUTON TOWER
	121.755 (GMC)	LUTON GROUND
	121.885	LUTON DELIVERY
	121.600	LUTON FIRE



STAND	COORDINATES	STAND	COORDINATES
1	515242.66N 0002241.91W	30	515303.47N 0002226.31W
1R	515242.05N 0002239.81W	31	515303.85N 0002221.68W
2	515243.26N 0002243.55W	43L	515250.77N 0002228.17W
3	515244.15N 0002244.43W	44L	515250.91N 0002225.91W
4	515245.28N 0002244.49W	44R	515251.63N 0002223.95W
5	515246.26N 0002243.90W	45R	515251.77N 0002221.68W
6	515247.42N 0002242.67W	46	515245.66N 0002225.46W
7	515248.53N 0002241.28W	47	515246.08N 0002223.35W
8	515249.70N 0002239.81W	48	515246.51N 0002221.25W
9	515250.78N 0002238.38W	49	515246.94N 0002219.14W
9L	515251.55N 0002237.12W	56	515243.18N 0002256.08W
10R	515254.38N 0002242.94W	58	515247.21N 0002258.82W
11L	515252.17N 0002245.74W	60	515252.72N 0002233.73W
11R	515253.27N 0002244.34W	61	515253.29N 0002232.35W
12R	515251.03N 0002247.18W	72	515254.10N 0002222.81W
13L	515248.83N 0002249.98W	73	515253.40N 0002225.23W
13R	515249.93N 0002248.58W	74	515253.67N 0002224.92W
14L	515247.72N 0002251.37W	75	515253.25N 0002227.03W
15	515246.78N 0002252.49W	76	515252.81N 0002229.14W
15L	515246.62N 0002252.77W	77	515258.38N 0002225.22W
16	515238.95N 0002247.43W	78	515257.95N 0002227.33W
17	515237.71N 0002246.19W	79	515257.65N 0002228.97W
18	515237.54N 0002243.08W	80	515257.00N 0002232.94W
19	515237.37N 0002241.31W	81	515255.44N 0002240.20W
20	515235.72N 0002224.51W	90	515238.60N 0002215.69W
21	515236.25N 0002222.15W	91	515239.89N 0002216.44W
21L	515235.66N 0002222.67W	92	515241.21N 0002217.07W
21R	515236.34N 0002220.67W	93	515242.39N 0002217.61W
22	515236.86N 0002218.60W	101	To be surveyed
23L	515237.08N 0002216.39W	102	To be surveyed
23R	515237.56N 0002214.30W	103	To be surveyed

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	PCN
Main Apron	Various (see AD 2.8)	-
North, East & South Apron	Concrete	-
Delta Apron	Concrete	-
Cargo Apron	Concrete/Asphalt	-
RWY	*See AD 2-EGGW-2-1*	
TWY (All)		

CHANGE (11/25): MODIFIED ENGINE RUN-UP BAY. NEW STANDS 101-103. NEW HOLDS A4E & A4W.


LONDON LUTON
EGGW
AD ELEV 527FT
ARP 515229N 0002206W
AIRCRAFT GROUND MOVEMENT -
REMOTE DE-ICING LOCATION CHART - ICAO
De-icing
Twy Foxtrot
De-icing
South Apron
Engine
Run-up
Bay
Cargo
Apron
North Apron
East Apron
Delta
Apron
Main
Apron
Twy A
Twy B
Twy C
Twy D
Twy E
Twy F
Twy H
Twy K
A1
A2
A3
A4E
A4W
A4
A5
A6
C1
C2
D1
D2
D3
D4
E1
E2
E3
F1
F2
F3
F4
F5
J1
K1
B1
B2
B3
B4
B5
B6
B7
B8
H1
150 m
100
50
0
500 ft
100
0
50
VAR 0.4°E - 2022
Annual Rate
of Change 0.20°E
CHANGE (11/25): MODIFIED ENGINE RUN-UP BAY. NEW HOLDS A4E & A4W.

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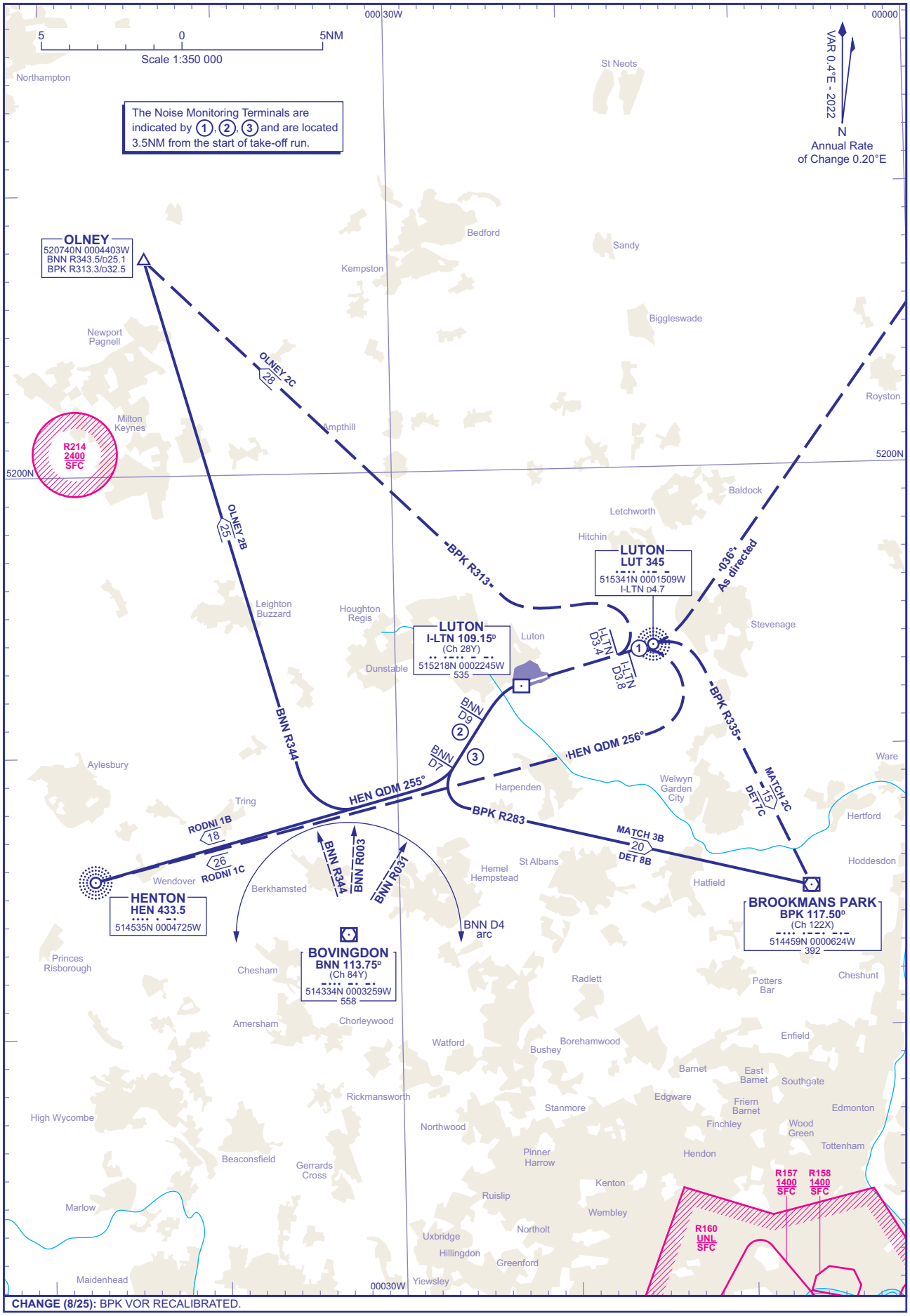
NOISE PREFERENTIAL ROUTEINGS

LONDON LUTON



CHANGE (8/25): BPK VOR RECALIBRATED.

AERO INFO DATE 21 MAY 25

AD 2-EGGW-3-1

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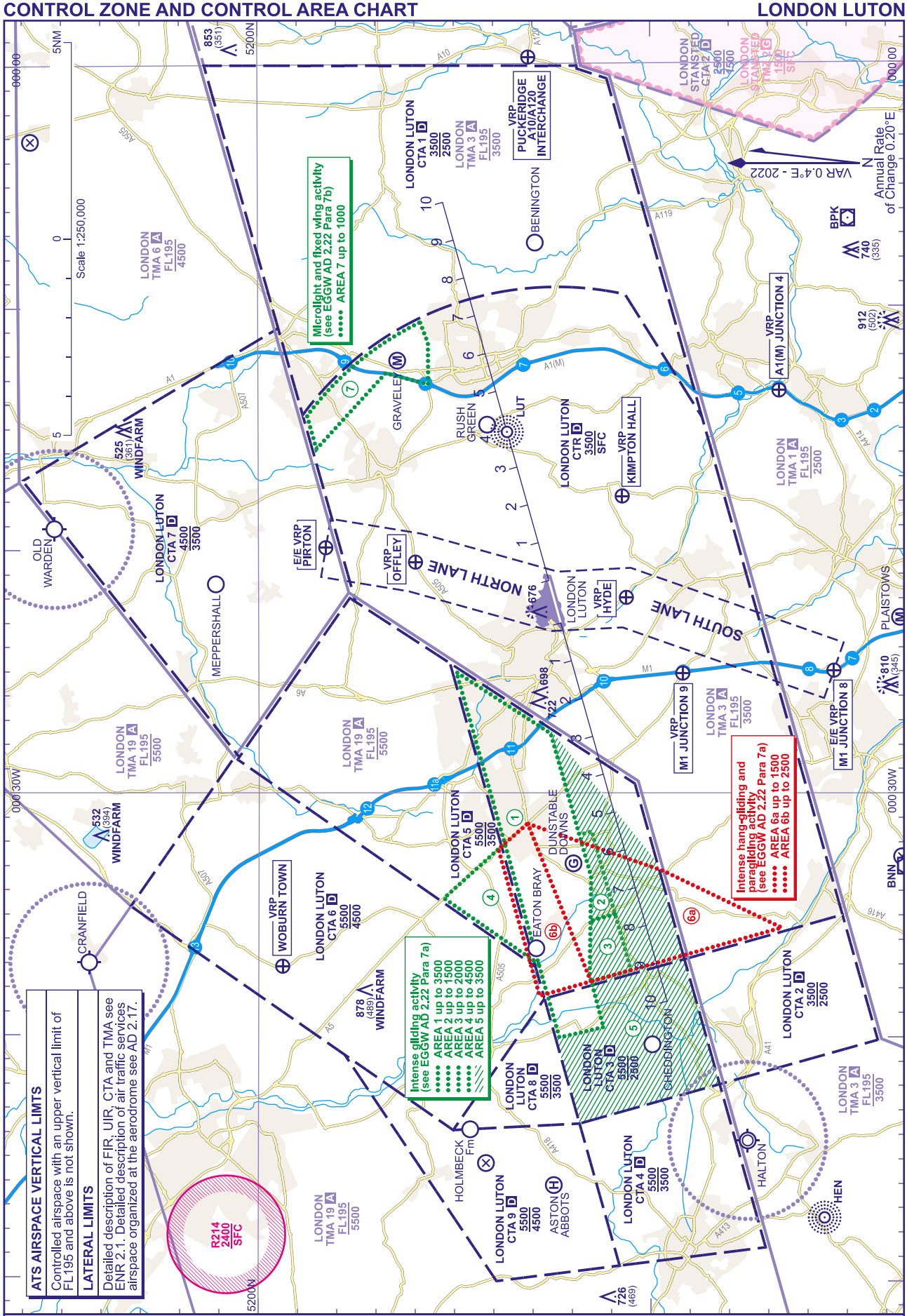
CONTROL ZONE AND CONTROL AREA CHART — LONDON LUTON



CHANGE (7/25): EGD206 REMOVED.

AERO INFO DATE 17 APR 25

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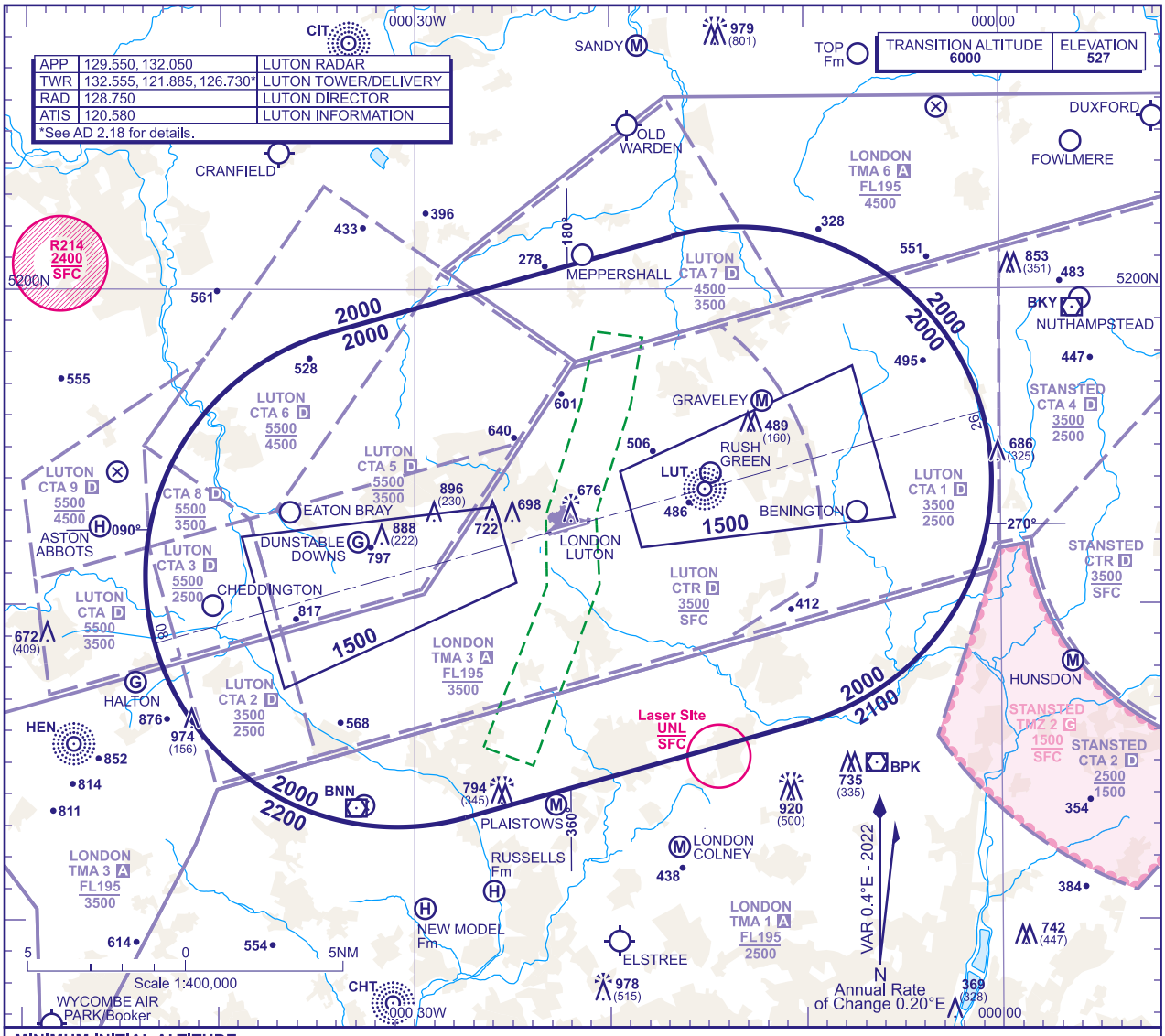
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 982
HEIGHTS IN FEET AGL (328)

LONDON LUTON



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is **2000** in the sector defined by the lateral limits; 515838N 0003424W - 520140N 0001649W thence clockwise by an arc of a circle radius 8NM centred on 515359N 0001322W to 514617N 0000956W - 514316N 0002725W thence clockwise by an arc of a circle radius 8NM centred on 515057N 0003054W to 515838N 0003424W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at last assigned level, to **NDB(L) LUT** and adopt the procedure detailed at EGGW AD 2.22.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) LUT** at **3000** and continue in accordance with the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 18 JUN 25

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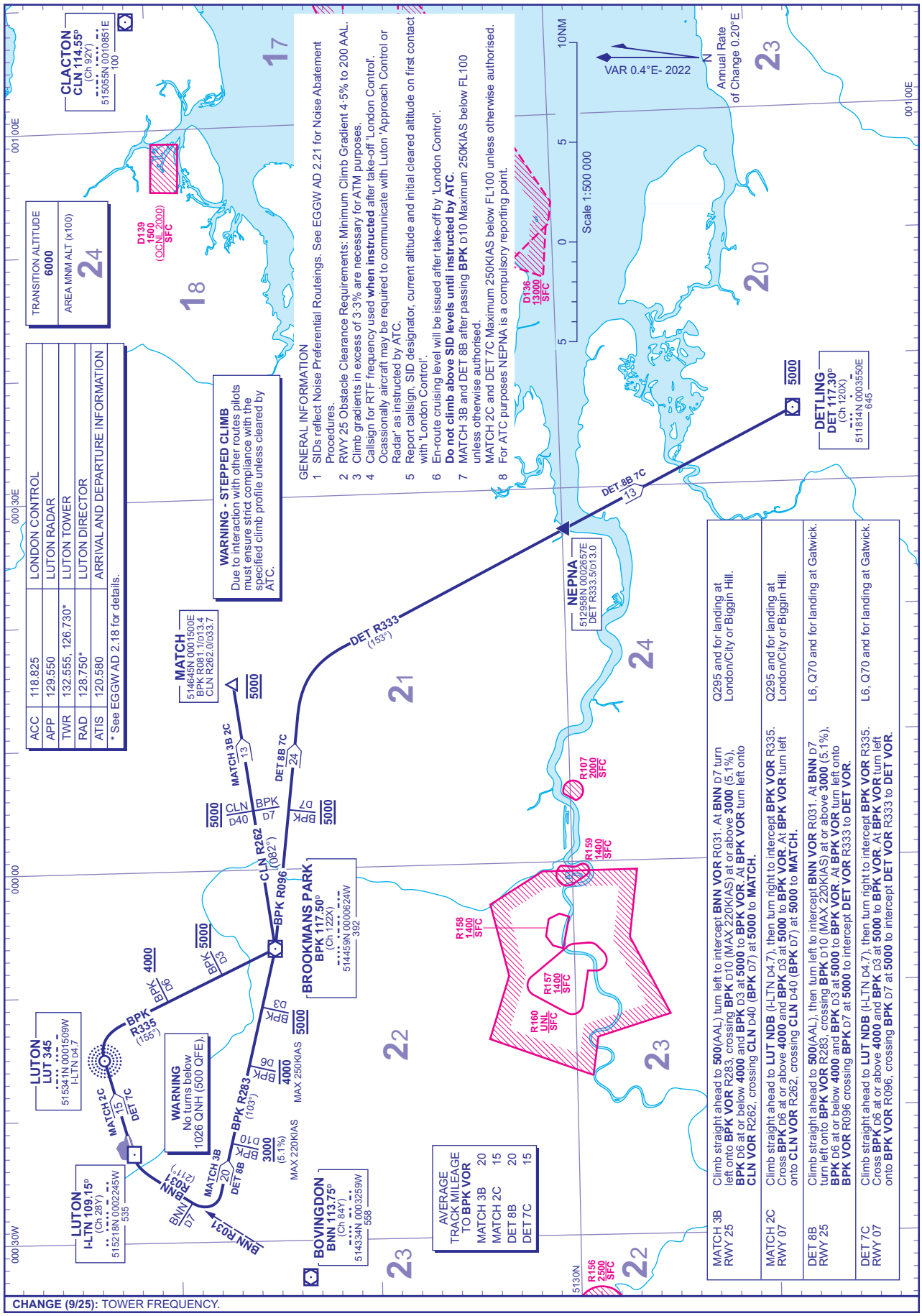
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 07/25
MATCH 3B 2C DET 8B 7C



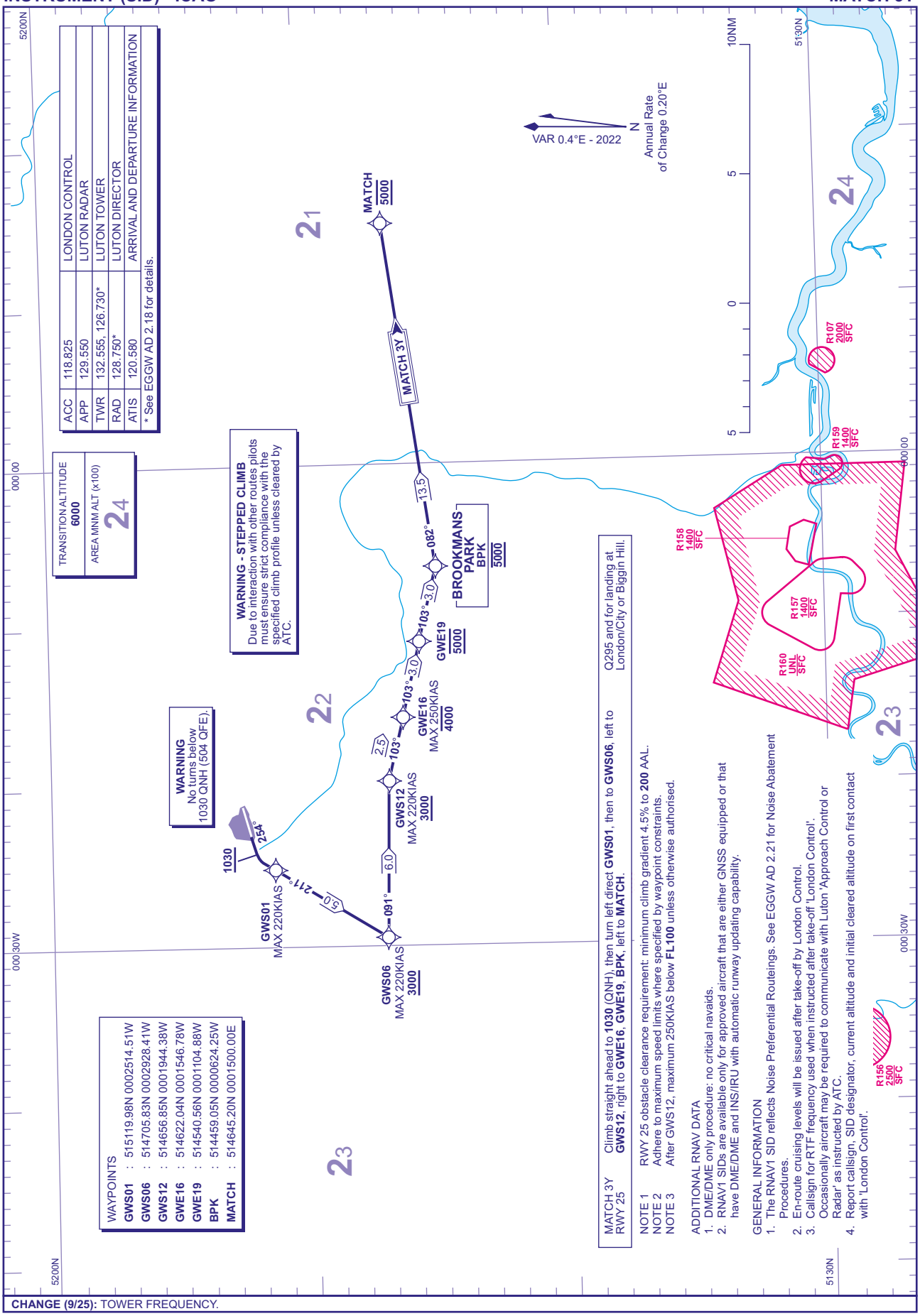
CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 10 JUN 25

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 25
MATCH 3Y



CHANGE (9/25): TOWER FREQUENCY.

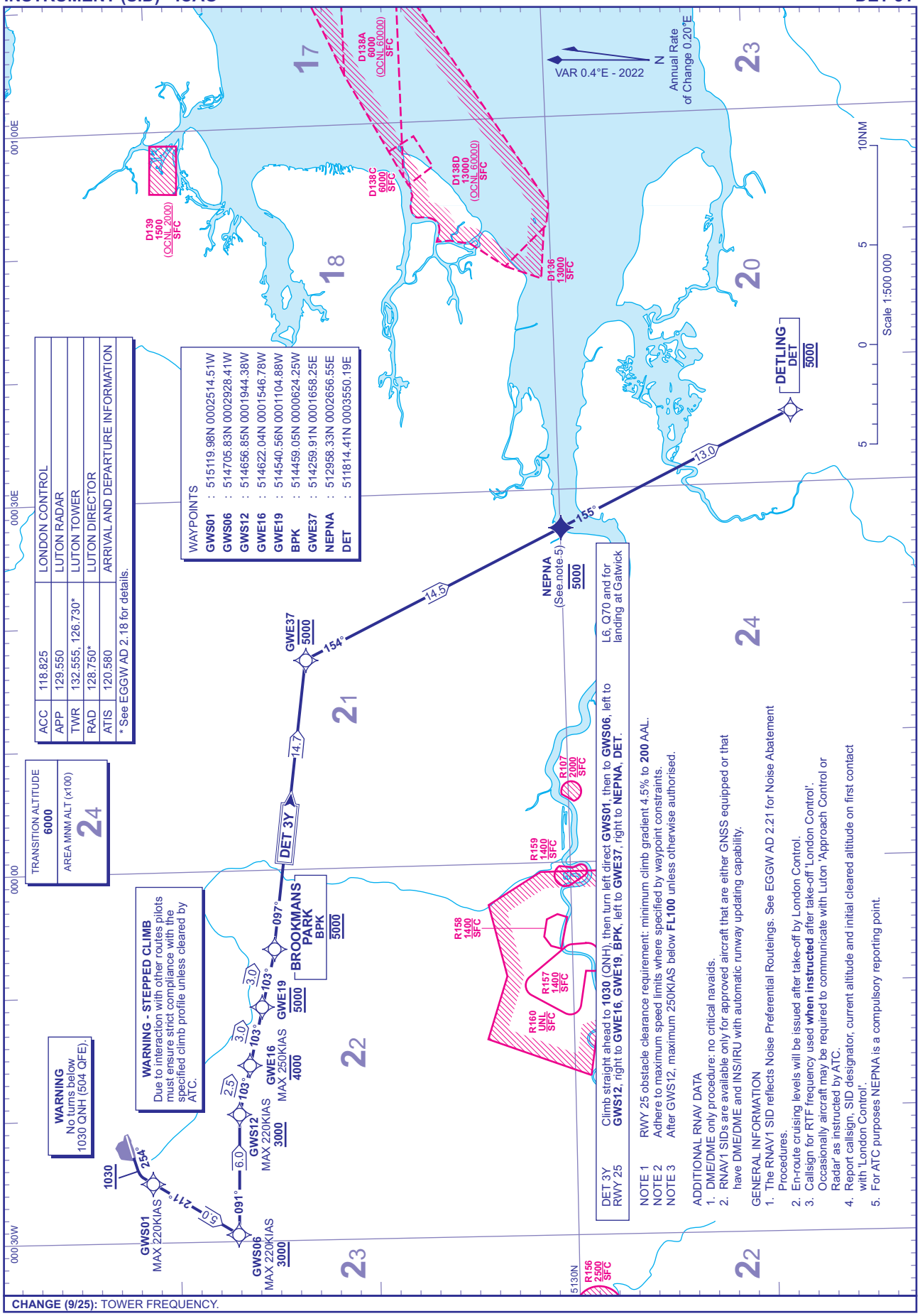
AERO INFO DATE 10 JUN 25

AD 2-EGGW-6-2

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 25
DET 3Y



CHANGE (9/25): TOWER FREQUENCY.

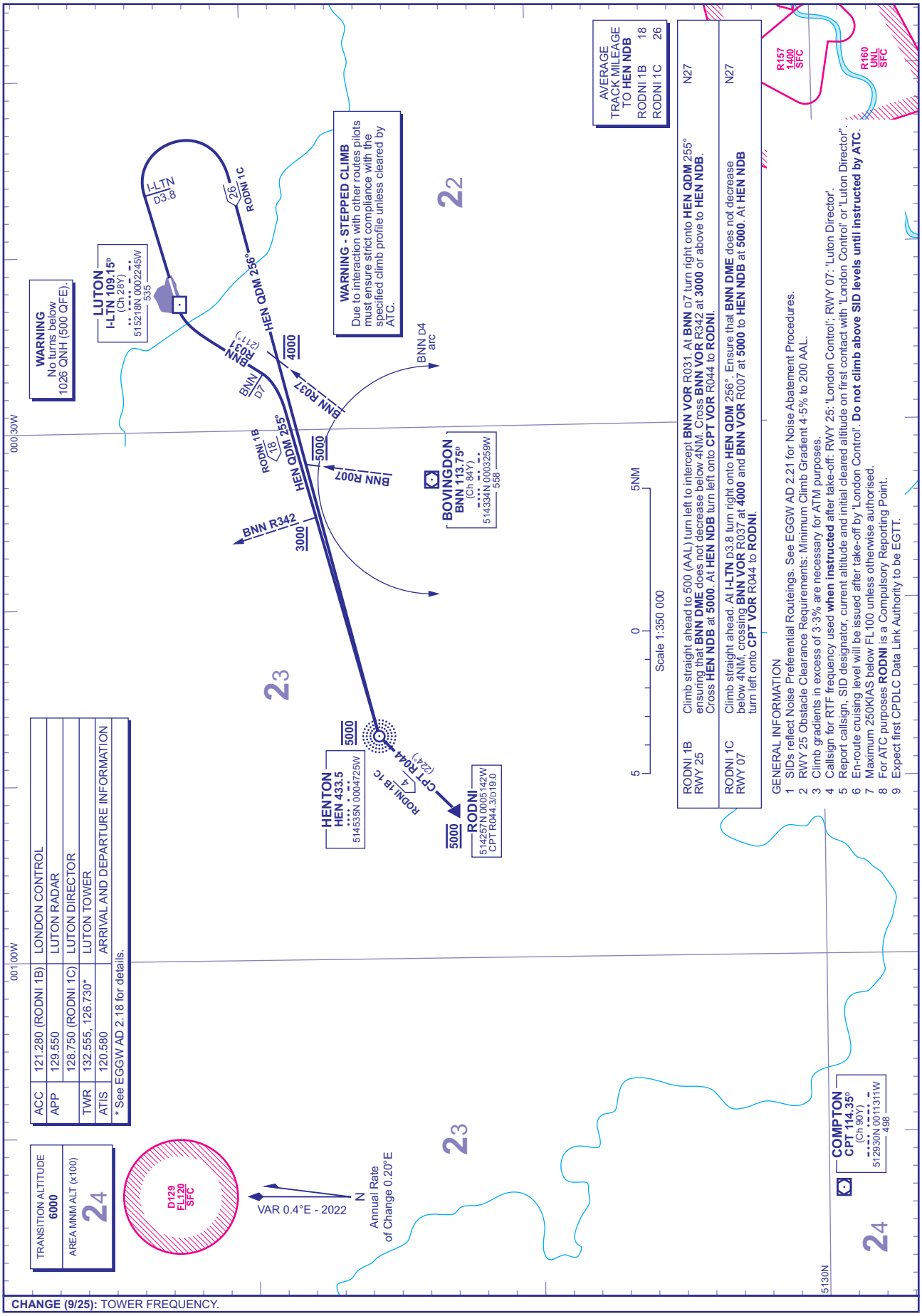
AERO INFO DATE 10 JUN 25

I

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 07 25
RODNI 1B 1C



CHANGE (9/25): TOWER FREQUENCY.

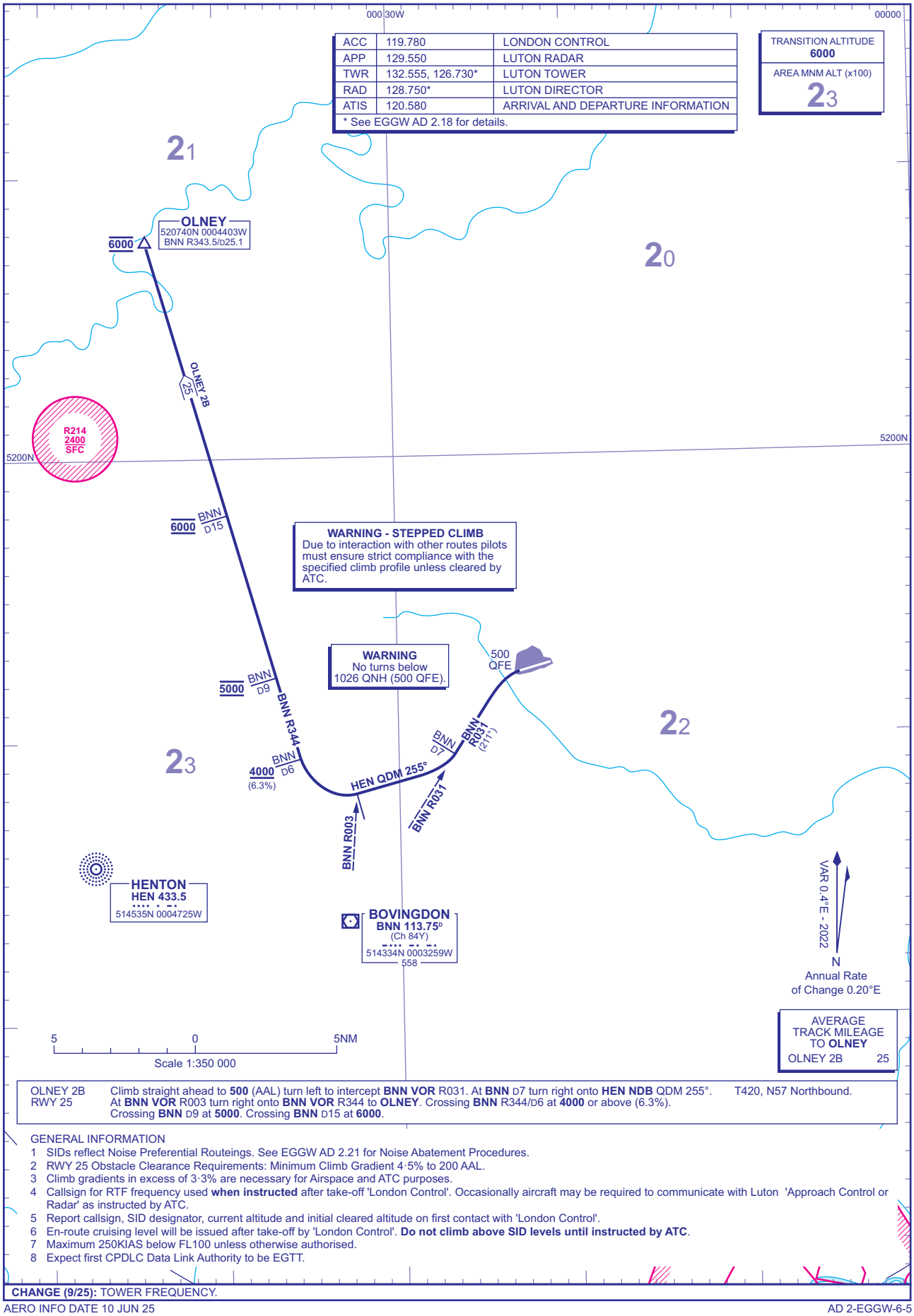
AERO INFO DATE 10 JUN 25

AD 2-EGGW-6-4

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 25
OLNEY 2B



OLNEY 2B RWY 25	Climb straight ahead to **500** (AAL) turn left to intercept **BNN VOR** R031. At **BNN** D7 turn right onto **HEN NDB** QDM 255°. At **BNN VOR** R003 turn right onto **BNN VOR** R344 to **OLNEY**. Crossing **BNN** R344/D6 at **4000** or above (6.3%). Crossing **BNN** D9 at **5000**. Crossing **BNN** D15 at **6000**.
T420, N57 Northbound.	

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGGW AD 2.21 for Noise Abatement Procedures.
2 RWY 25 Obstacle Clearance Requirements: Minimum Climb Gradient 4·5% to 200 AAL.
3 Climb gradients in excess of 3·3% are necessary for Airspace and ATC purposes.
4 Callsign for RTF frequency used **when instructed** after take-off 'London Control'. Occasionally aircraft may be required to communicate with Luton 'Approach Control or Radar' as instructed by ATC.
5 Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control'.
6 En-route cruising level will be issued after take-off by 'London Control'. **Do not climb above SID levels until instructed by ATC**.
7 Maximum 250KIAS below FL100 unless otherwise authorised.
8 Expect first CPDLC Data Link Authority to be EGTT.

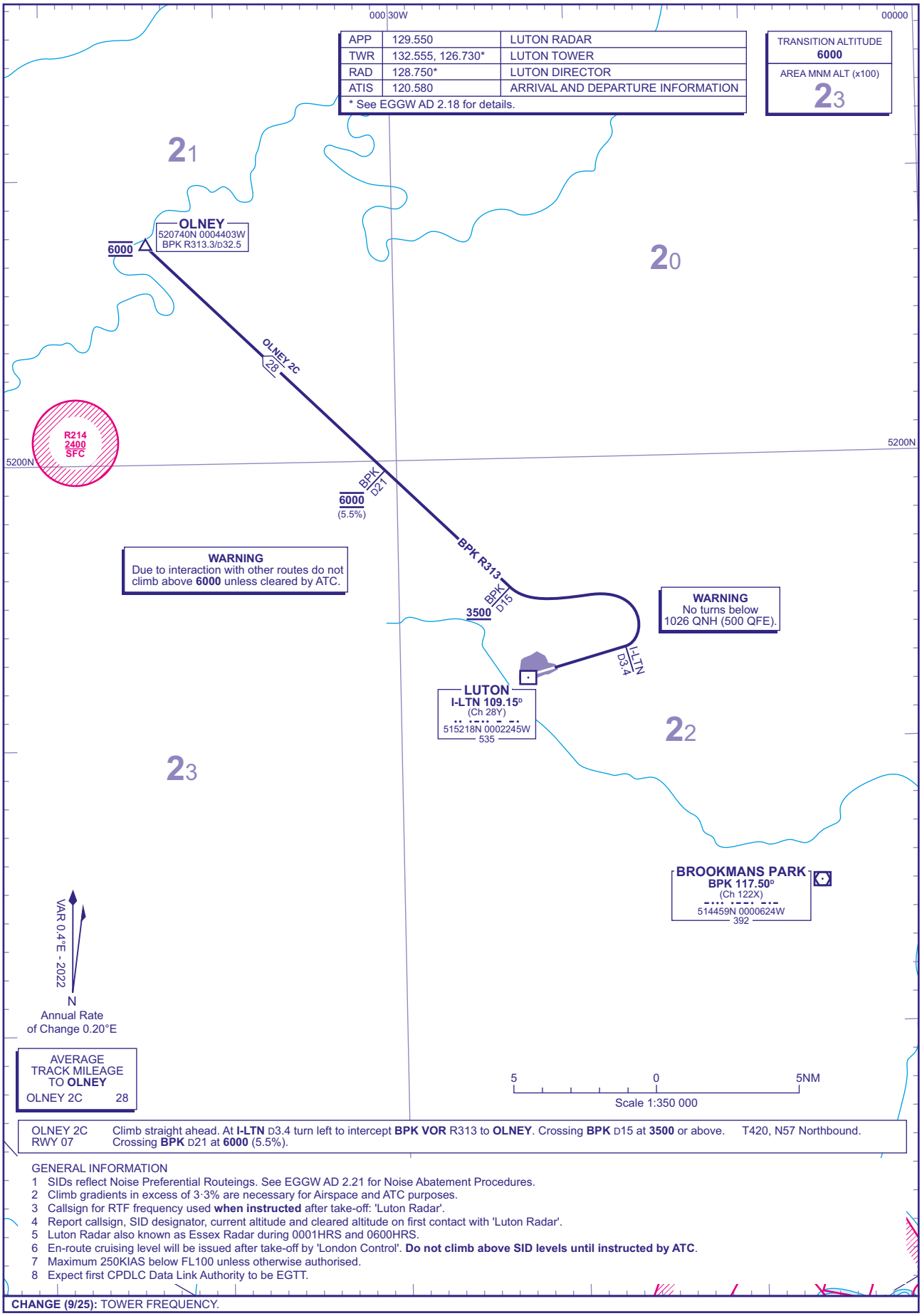
CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 10 JUN 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 07
OLNEY 2C



OLNEY 2C / RWY 07: Climb straight ahead. At **I-LTN** D3.4 turn left to intercept **BPK VOR** R313 to **OLNEY**. Crossing **BPK** D15 at **3500** or above. T420, N57 Northbound. Crossing **BPK** D21 at **6000** (5.5%).

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGGW AD 2.21 for Noise Abatement Procedures.
2 Climb gradients in excess of 3·3% are necessary for Airspace and ATC purposes.
3 Callsign for RTF frequency used **when instructed** after take-off: 'Luton Radar'.
4 Report callsign, SID designator, current altitude and cleared altitude on first contact with 'Luton Radar'.
5 Luton Radar also known as Essex Radar during 0001HRS and 0600HRS.
6 En-route cruising level will be issued after take-off by 'London Control'. **Do not climb above SID levels until instructed by ATC**.
7 Maximum 250KIAS below FL100 unless otherwise authorised.
8 Expect first CPDLC Data Link Authority to be EGTT.

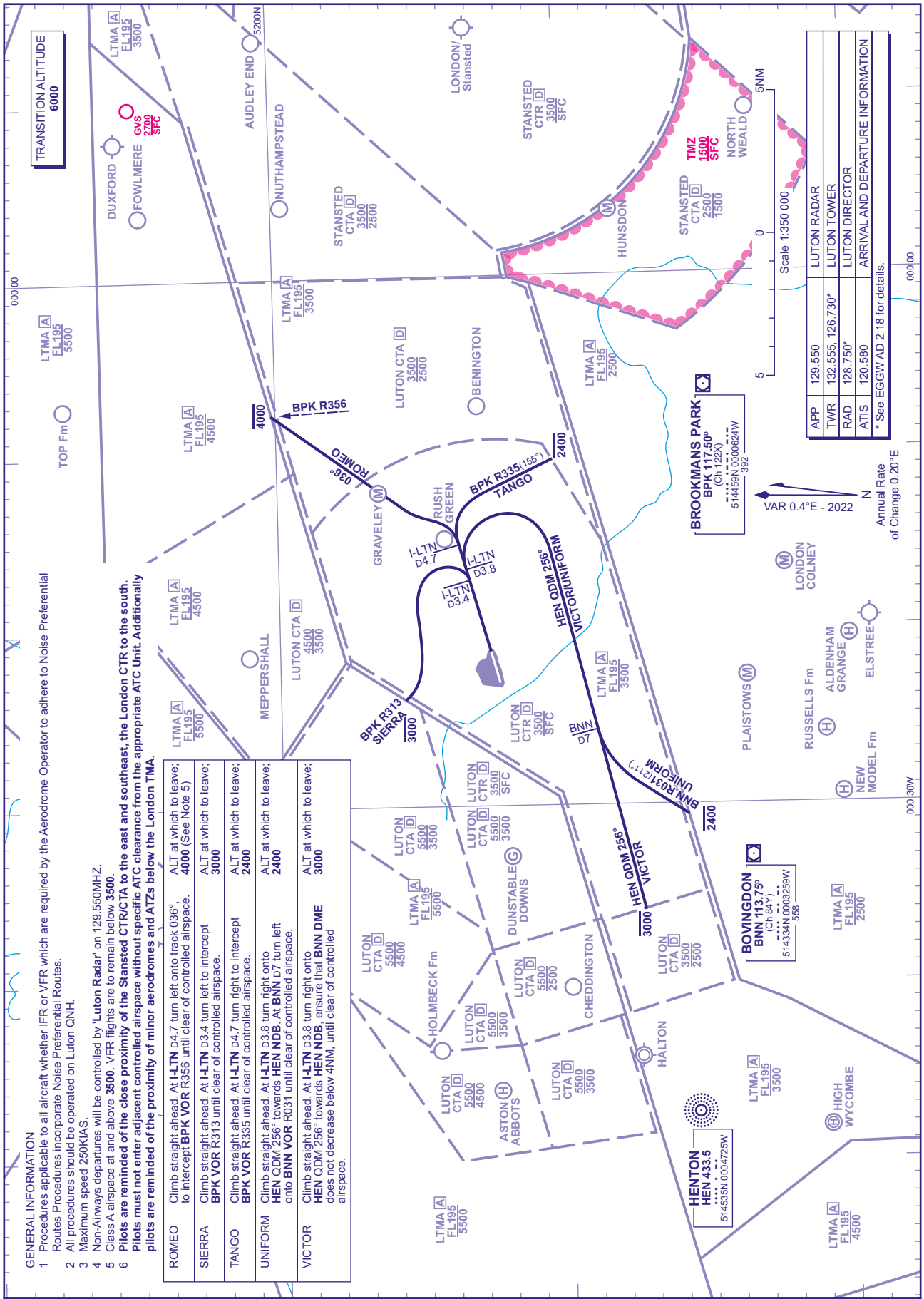
CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 10 JUN 25

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
NON-AIRWAY DEPARTURES
RWY 07



GENERAL INFORMATION

1 Procedures applicable to all aircraft whether IFR or VFR which are required by the Aerodrome Operator to adhere to Noise Preferential Routes Procedures incorporate Noise Preferential Routes.
2 All procedures should be operated on Luton QNH.
3 Maximum speed 250KIAS.
4 Non-Airways departures will be controlled by '**Luton Radar**' on 129.550MHZ.
5 Class A airspace at and above **3500**. VFR flights are to remain below **3500**.
6 **Pilots are reminded of the close proximity of the Stansted CTR/CTA to the east and southeast, the London CTR to the south. Pilots must not enter adjacent controlled airspace without specific ATC clearance from the appropriate ATC Unit. Additionally pilots are reminded of the proximity of minor aerodromes and ATZs below the London TMA.**

ROMEO	Climb straight ahead. At **I-LTN** D4.7 turn left onto track 036°, to intercept **BPK VOR** R356 until clear of controlled airspace. ALT at which to leave; **4000** (See Note 5)
SIERRA	Climb straight ahead. At **I-LTN** D3.4 turn left to intercept **BPK VOR** R313 until clear of controlled airspace. ALT at which to leave; **3000**
TANGO	Climb straight ahead. At **I-LTN** D4.7 turn right to intercept **BPK VOR** R335 until clear of controlled airspace. ALT at which to leave; **2400**
UNIFORM	Climb straight ahead. At **I-LTN** D3.8 turn right onto **HEN** QDM 256° towards **HEN NDB**. At **BNN** D7 turn left onto **BNN VOR** R031 until clear of controlled airspace. ALT at which to leave; **2400**
VICTOR	Climb straight ahead. At **I-LTN** D3.8 turn right onto **HEN** QDM 256° towards **HEN NDB**, ensure that **BNN DME** does not decrease below 4NM, until clear of controlled airspace. ALT at which to leave; **3000**

CHANGE (9/25): TOWER FREQUENCY.

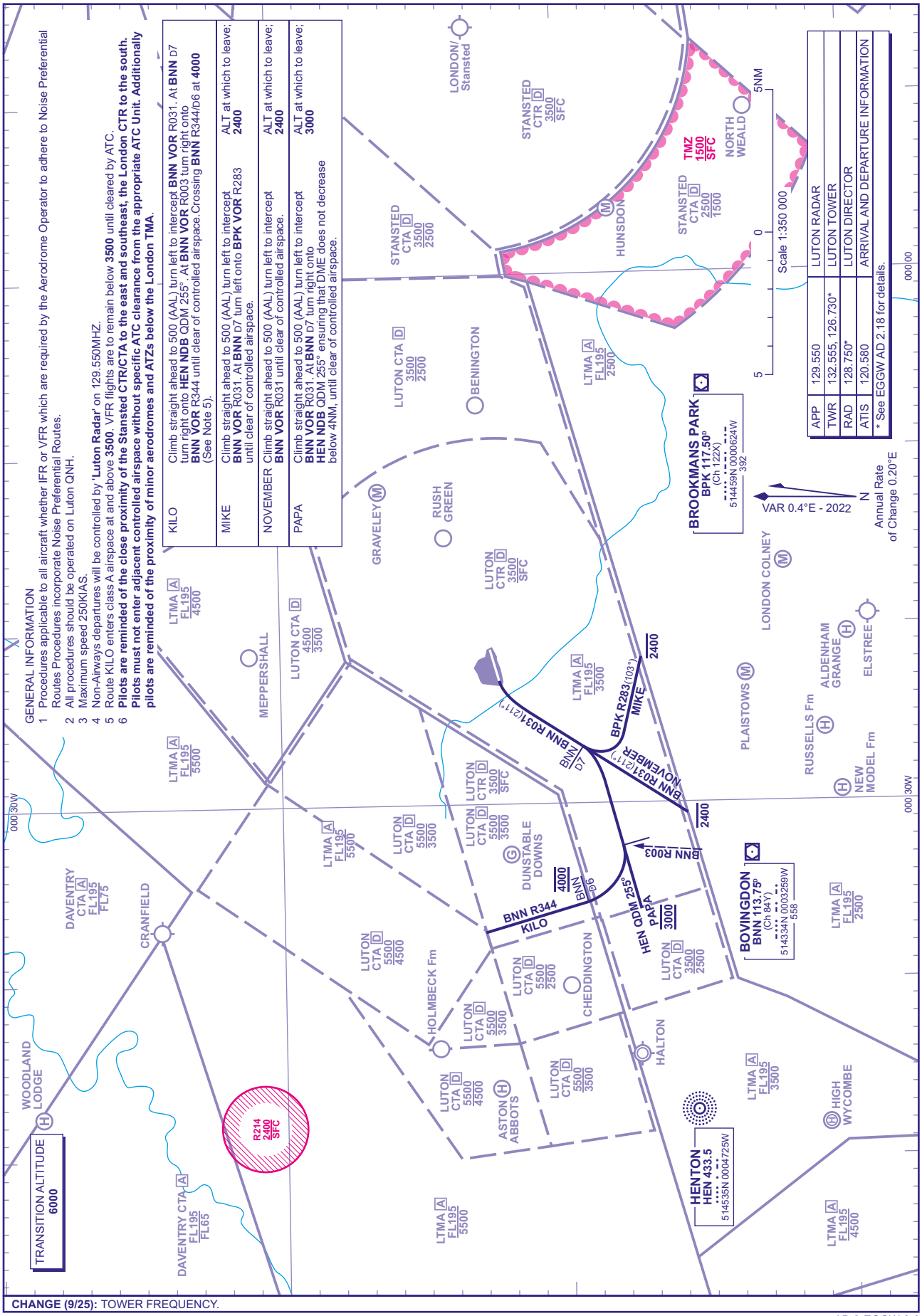
AERO INFO DATE 10 JUN 25

I

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
NON-AIRWAY DEPARTURES
RWY 25



CHANGE (9/25): TOWER FREQUENCY.

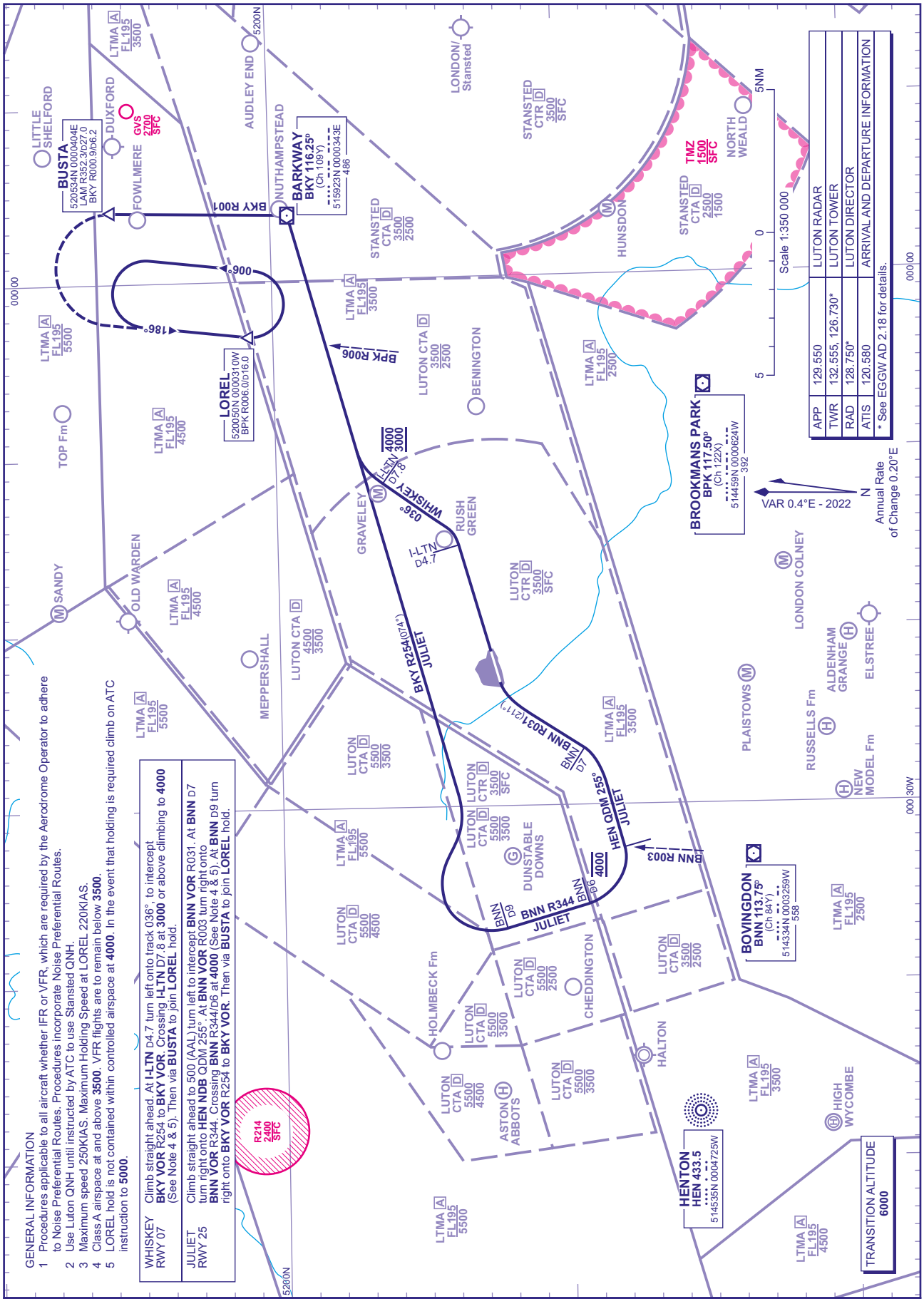
AERO INFO DATE 10 JUN 25

AD 2-EGGW-6-8

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
NON-AIRWAY DEPARTURES
to Stansted



GENERAL INFORMATION

1 Procedures applicable to all aircraft whether IFR or VFR, which are required by the Aerodrome Operator to adhere to Noise Preferential Routes. Procedures incorporate Noise Preferential Routes.
2 Use Luton QNH until instructed by ATC to use Stansted QNH.
3 Maximum speed 250KIAS. Maximum Holding Speed at LOREL 220KIAS.
4 Class A airspace at and above **3500**. VFR flights are to remain below **3500**.
5 LOREL hold is not contained within controlled airspace at **4000**. In the event that holding is required climb on ATC instruction to **5000**.

WHISKEY RWY 07	Climb straight ahead. At **I-LTN** D4.7 turn left onto track 036°, to intercept **BKY VOR** R254 to **BKY VOR**. Crossing **I-LTN** D7.8 at **3000** or above climbing to **4000** (See Note 4 & 5). Then via **BUSTA** to join **LOREL** hold.
JULIET RWY 25	Climb straight ahead to 500 (AAL) turn left to intercept **BNN VOR** R031. At **BNN** D7 turn right onto **HEN NDB** QDM 255°. At **BNN VOR** R003 turn right onto **BNN VOR** R344. Crossing **BNN** R344/D6 at **4000** (See Note 4 & 5). At **BNN** D9 turn right onto **BKY VOR** R254 to **BKY VOR**. Then via **BUSTA** to join **LOREL** hold.

CHANGE (9/25): TOWER FREQUENCY.

Standard Instrument Departure Coding Tables

London Luton Runway 25 MATCH 3Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint (KT)	Navigation Performance
MATCH 3Y	001	CA	-	-	-	254° (254.4°)	0.4	-	LEFT	+1030	-	RNAV1
MATCH 3Y	002	DF	GWS01	515119.98N 0002514.51W	N	-	-	-	-	-	-220	RNAV1
MATCH 3Y	003	TF	GWS06	514705.83N 0002928.41W	N	211° (211.8°)	0.4	5.0	LEFT	+3000	-220	RNAV1
MATCH 3Y	004	TF	GWS12	514656.85N 0001944.38W	N	091° (091.4°)	0.4	6.0	RIGHT	+3000	-220	RNAV1
MATCH 3Y	005	TF	GWE16	514622.04N 0001546.78W	N	103° (103.3°)	0.4	2.5	-	-4000	-250	RNAV1
MATCH 3Y	006	TF	GWE19	514540.56N 0001104.88W	N	103° (103.3°)	0.4	3.0	-	5000	-	RNAV1
MATCH 3Y	007	TF	BPK	514459.05N 0000624.25W	N	103° (103.4°)	0.4	3.0	LEFT	5000	-	RNAV1
MATCH 3Y	008	TF	MATCH	514645.20N 0001500.00E	N	082° (082.3°)	0.4	13.5	-	5000	-	RNAV1

CHANGE (11/20): MAG VAR. MAG TRACKS.
AERO INFO DATE 15 JUL 20

Standard Instrument Departure Coding Tables

London Luton Runway 25 DET 3Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint (KT)	Navigation Performance
DET 3Y	001	CA	-	-	-	254° (254.4°)	0.4	-	LEFT	+1030	-	RNAV1
DET 3Y	002	DF	GWS01	515119.98N 0002514.51W	N	-	-	-	-	-	-220	RNAV1
DET 3Y	003	TF	GWS06	514705.83N 0002928.41W	N	211° (211.8°)	0.4	5.0	LEFT	+3000	-220	RNAV1
DET 3Y	004	TF	GWS12	514656.85N 0001944.38W	N	091° (091.4°)	0.4	6.0	RIGHT	+3000	-220	RNAV1
DET 3Y	005	TF	GWE16	514622.04N 0001546.78W	N	103° (103.3°)	0.4	2.5	-	-4000	-250	RNAV1
DET 3Y	006	TF	GWE19	514540.56N 0001104.88W	N	103° (103.3°)	0.4	3.0	-	5000	-	RNAV1
DET 3Y	007	TF	BPK	514459.05N 0000624.25W	N	103° (103.4°)	0.4	3.0	LEFT	5000	-	RNAV1
DET 3Y	008	TF	GWE37	514259.91N 0001658.25E	N	097° (097.6°)	0.4	14.7	RIGHT	5000	-	RNAV1
DET 3Y	009	TF	NEPNA	512958.33N 0002656.55E	N	154° (154.5°)	0.4	14.5	-	5000	-	RNAV1
DET 3Y	010	TF	DET	511814.41N 0003550.19E	N	155° (155.2°)	0.4	13.0	-	5000	-	RNAV1

CHANGE (11/20): MAG VAR. MAG TRACKS.
AERO INFO DATE 21 JUL 20

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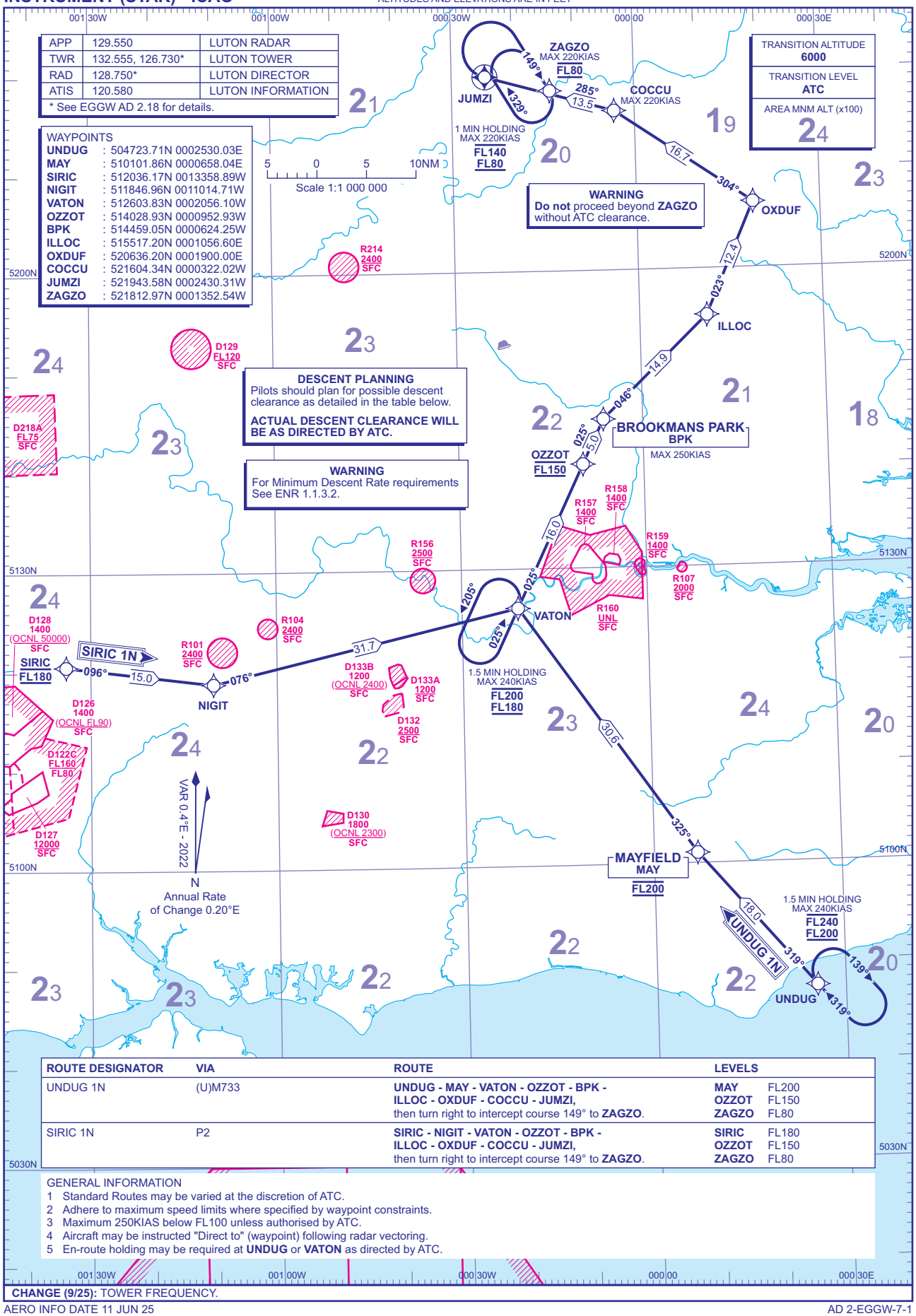
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
UNDUG 1N SIRIC 1N



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
UNDUG 1N	(U)M733	**UNDUG - MAY - VATON - OZZOT - BPK - ILLOC - OXDUF - COCCU - JUMZI,** then turn right to intercept course 149° to **ZAGZO**.	**MAY** **OZZOT** **ZAGZO**	FL200 FL150 FL80
SIRIC 1N	P2	**SIRIC - NIGIT - VATON - OZZOT - BPK - ILLOC - OXDUF - COCCU - JUMZI,** then turn right to intercept course 149° to **ZAGZO**.	**SIRIC** **OZZOT** **ZAGZO**	FL180 FL150 FL80

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 En-route holding may be required at **UNDUG** or **VATON** as directed by ATC.

CHANGE (9/25): TOWER FREQUENCY.

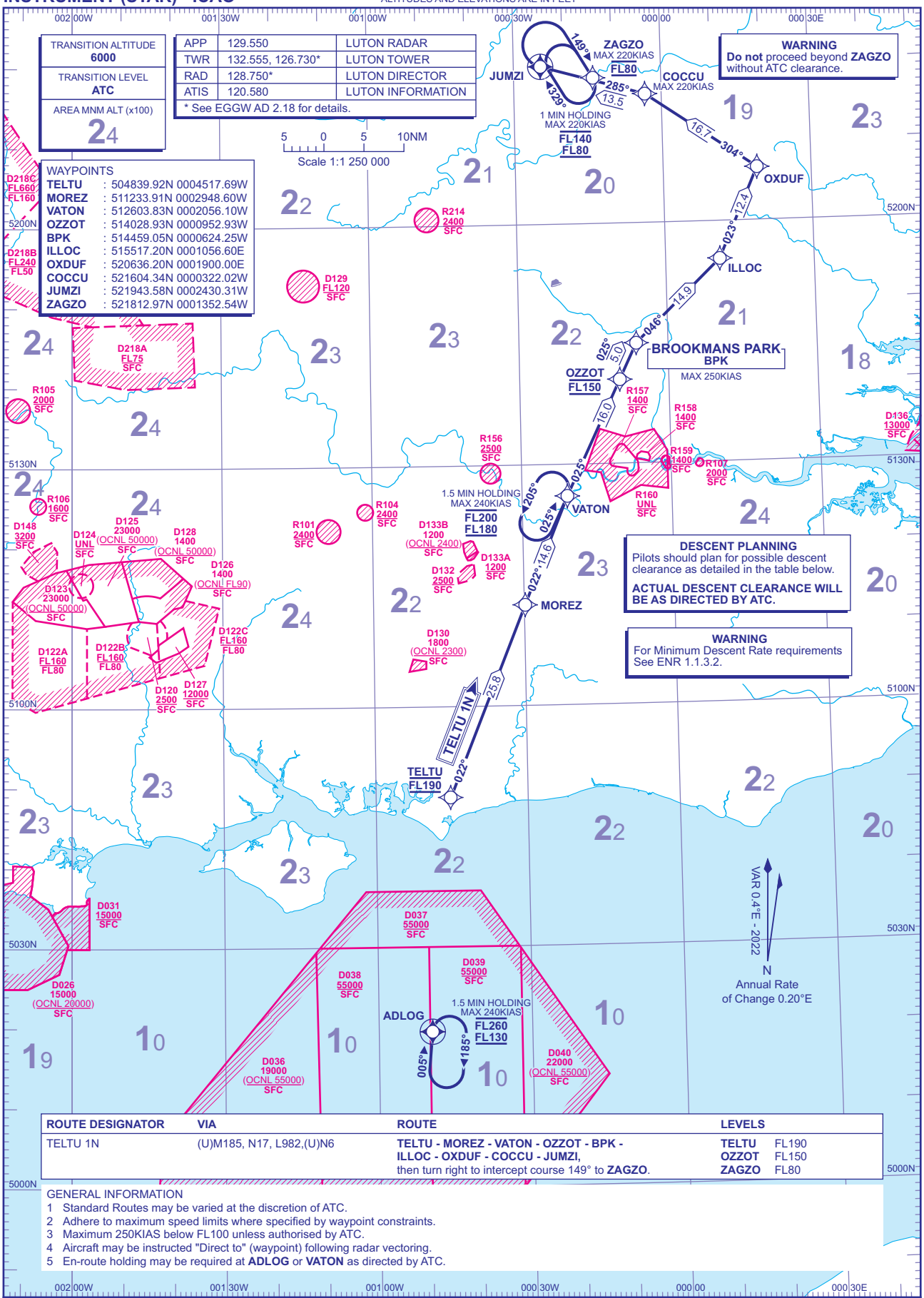
AERO INFO DATE 11 JUN 25

AD 2-EGGW-7-1

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

LONDON LUTON TELTU 1N

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
TELTU 1N	(U)M185, N17, L982,(U)N6	**TELTU - MOREZ - VATON - OZZOT - BPK - ILLOC - OXDUF - COCCU - JUMZI,** then turn right to intercept course 149° to **ZAGZO**.	**TELTU** FL190 **OZZOT** FL150 **ZAGZO** FL80

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 En-route holding may be required at **ADLOG** or **VATON** as directed by ATC.

CHANGE (9/25): TOWER FREQUENCY.

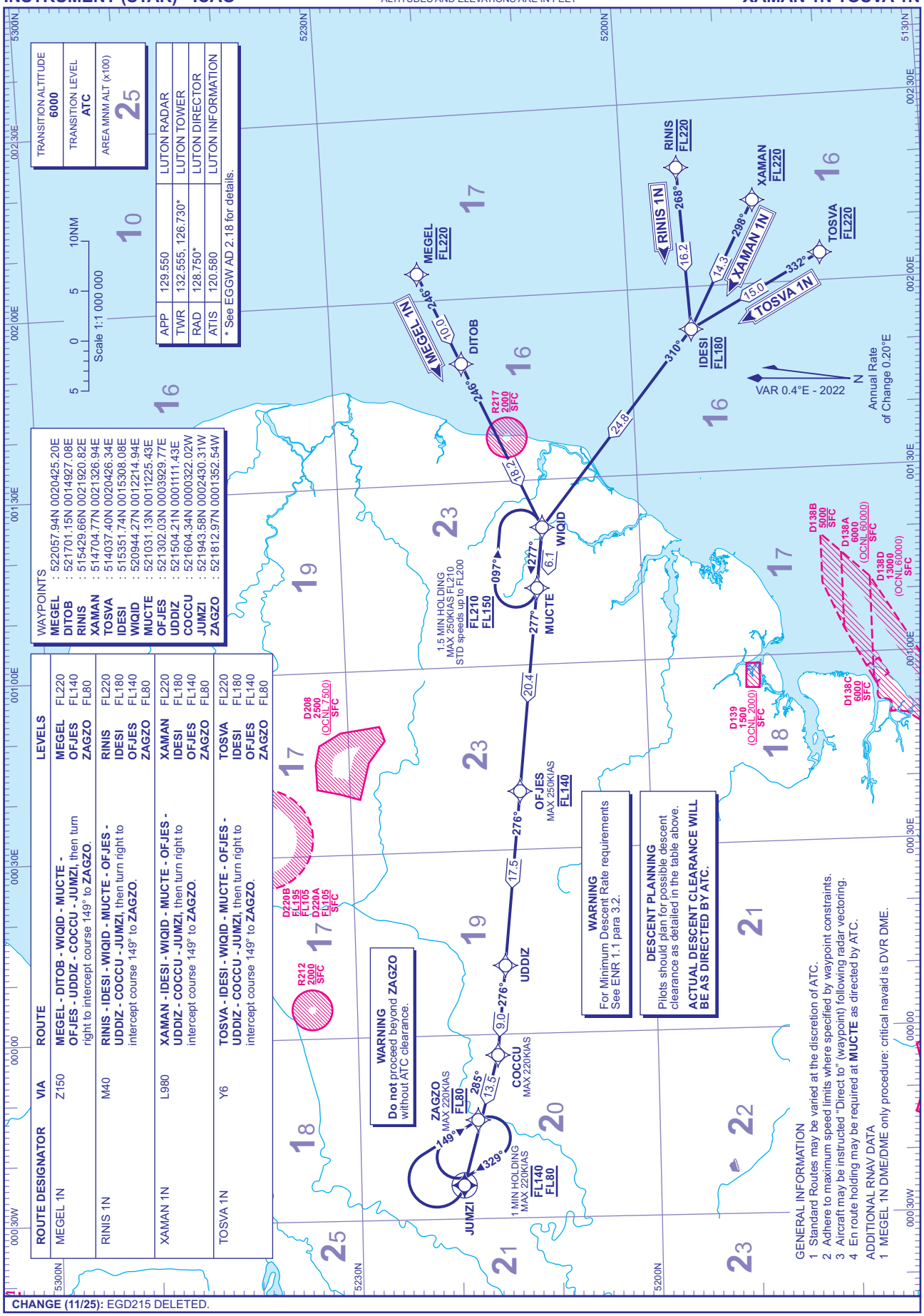
AERO INFO DATE 11 JUN 25

AD 2-EGGW-7-2

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
MEGEL 1N RINIS 1N
XAMAN 1N TOSVA 1N



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
MEGEL 1N	Z150	**MEGEL - DITOB - WIQID - MUCTE - OFJES - UDDIZ - COCCU - JUMZI**, then turn right to intercept course 149° to **ZAGZO**.	**MEGEL** FL220 **OFJES** FL140 **ZAGZO** FL80
RINIS 1N	M40	**RINIS - IDESI - WIQID - MUCTE - OFJES - UDDIZ - COCCU - JUMZI**, then turn right to intercept course 149° to **ZAGZO**.	**RINIS** FL220 **IDESI** FL180 **OFJES** FL140 **ZAGZO** FL80
XAMAN 1N	L980	**XAMAN - IDESI - WIQID - MUCTE - OFJES - UDDIZ - COCCU - JUMZI**, then turn right to intercept course 149° to **ZAGZO**.	**XAMAN** FL220 **IDESI** FL180 **OFJES** FL140 **ZAGZO** FL80
TOSVA 1N	Y6	**TOSVA - IDESI - WIQID - MUCTE - OFJES - UDDIZ - COCCU - JUMZI**, then turn right to intercept course 149° to **ZAGZO**.	**TOSVA** FL220 **IDESI** FL180 **OFJES** FL140 **ZAGZO** FL80

CHANGE (11/25): EGD215 DELETED.

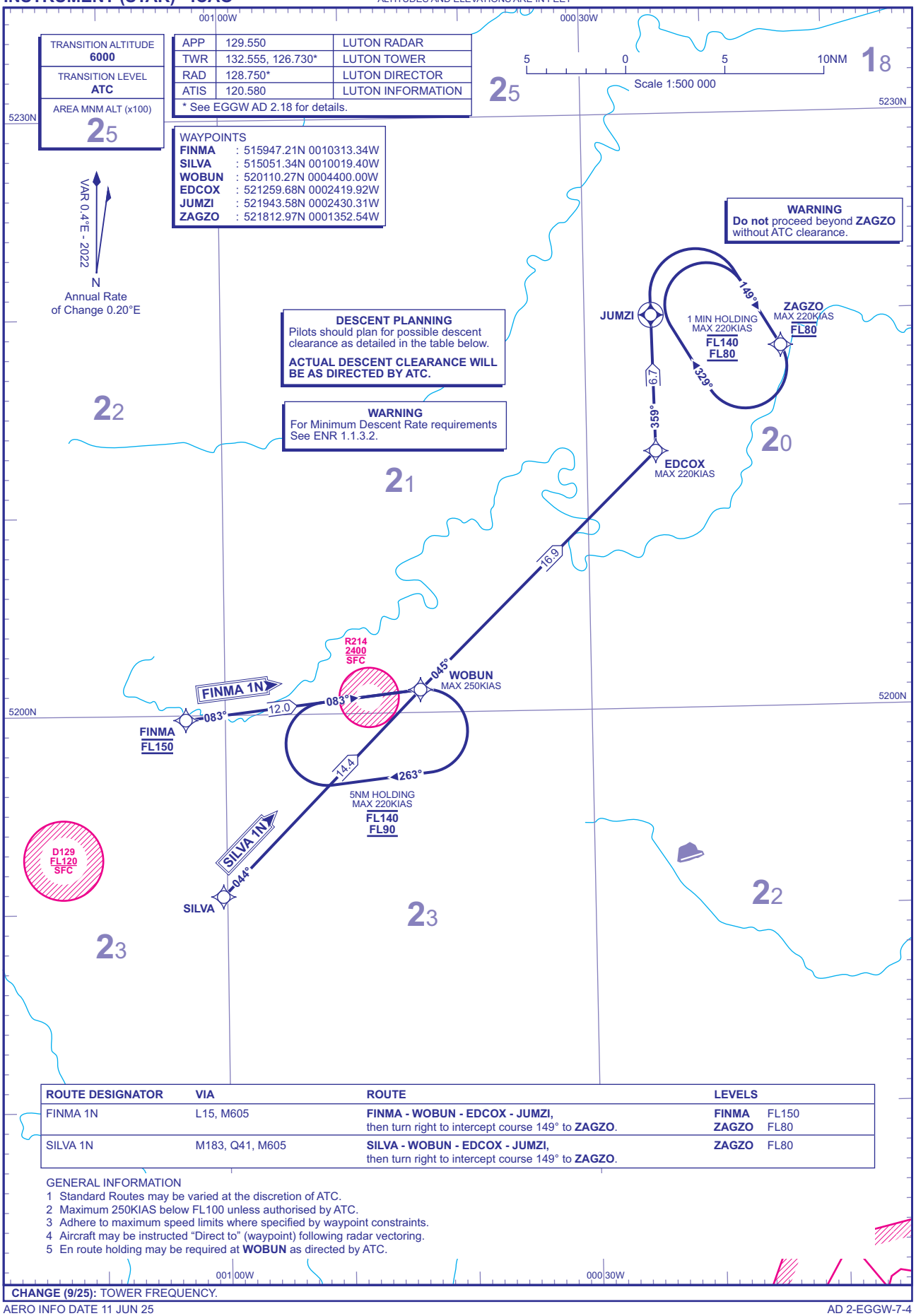
AERO INFO DATE 06 AUG 25

AD 2-EGGW-7-3

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON FINMA 1N SILVA 1N



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
FINMA 1N	L15, M605	**FINMA - WOBUN - EDCOX - JUMZI,** then turn right to intercept course 149° to **ZAGZO**.	**FINMA** FL150 **ZAGZO** FL80
SILVA 1N	M183, Q41, M605	**SILVA - WOBUN - EDCOX - JUMZI,** then turn right to intercept course 149° to **ZAGZO**.	**ZAGZO** FL80

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Maximum 250KIAS below FL100 unless authorised by ATC.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 En route holding may be required at **WOBUN** as directed by ATC.

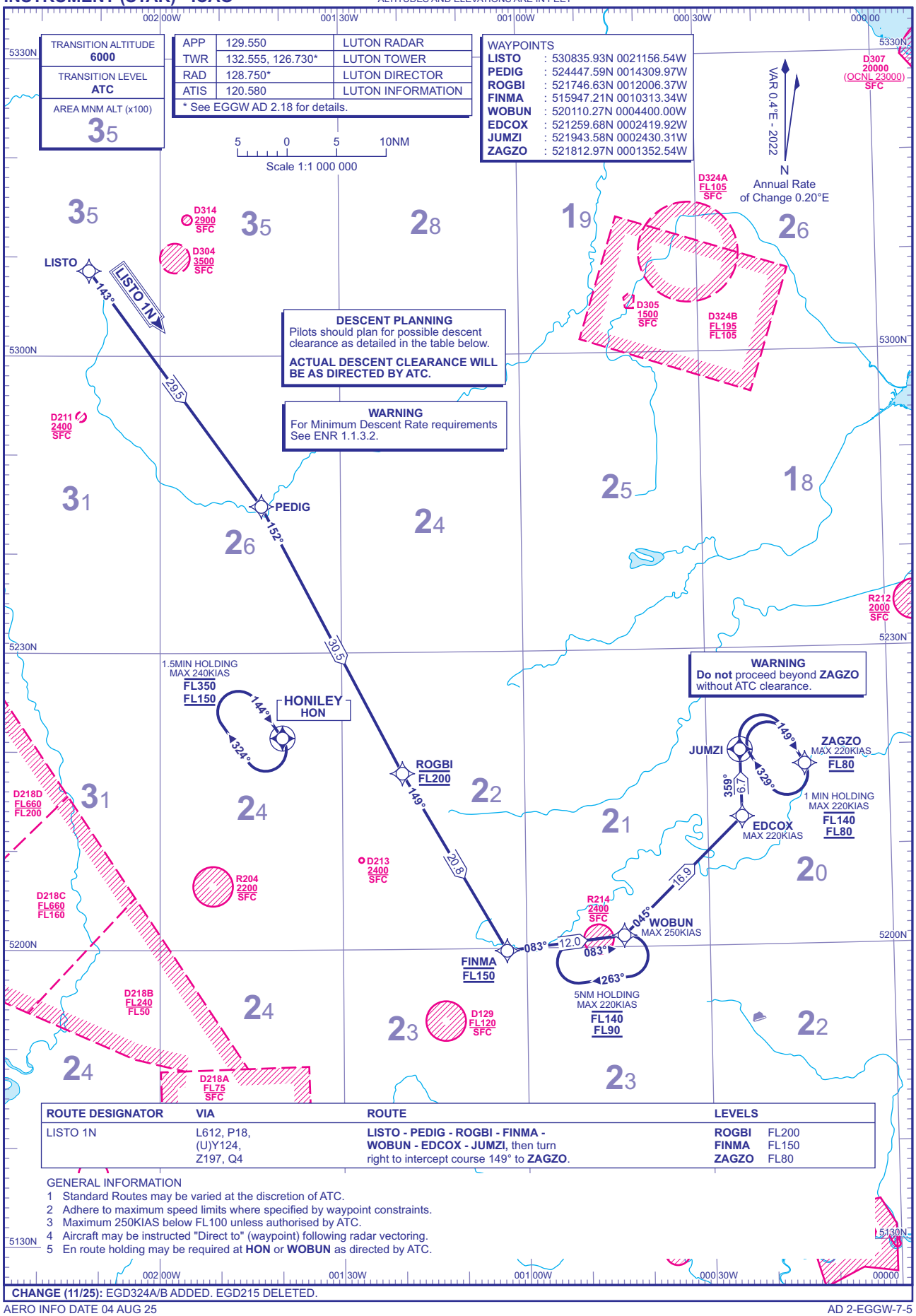
CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25
AD 2-EGGW-7-4

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON LISTO 1N



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
LISTO 1N	L612, P18, (U)Y124, Z197, Q4	**LISTO - PEDIG - ROGBI - FINMA - WOBUN - EDCOX - JUMZI,** then turn right to intercept course 149° to **ZAGZO**.	**ROGBI** FL200 **FINMA** FL150 **ZAGZO** FL80

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 En route holding may be required at **HON** or **WOBUN** as directed by ATC.

CHANGE (11/25): EGD324A/B ADDED. EGD215 DELETED.

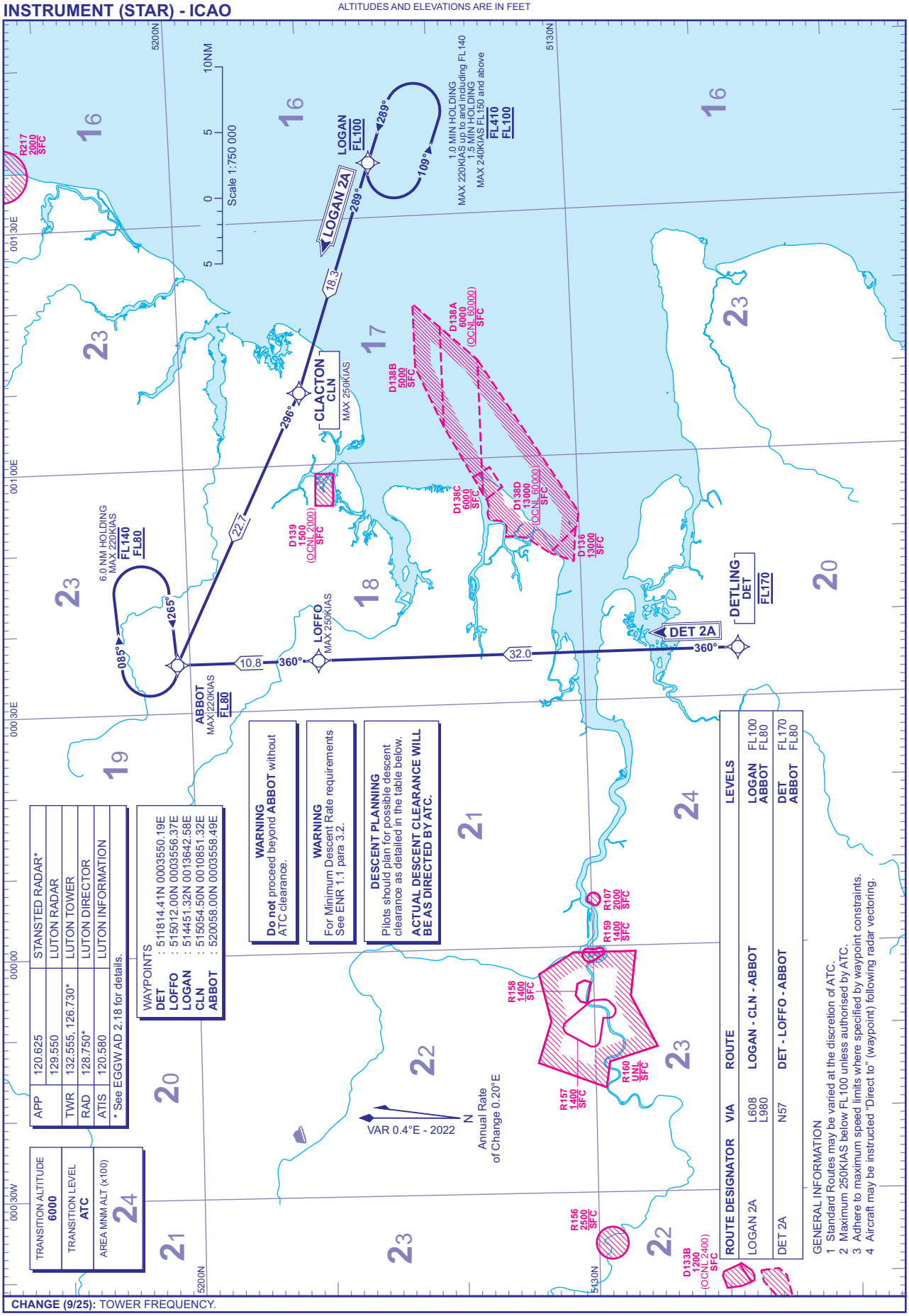
AERO INFO DATE 04 AUG 25

AD 2-EGGW-7-5

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON LOGAN 2A DET 2A



CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25

AD 2-EGGW-7-6

Standard Instrument Arrival Coding Tables

London Luton UNDUG 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
UNDUG 1N	001	IF	UNDUG	504723.71N 0002530.03E	N	-	-	-	-	-	-	RNAV1
UNDUG 1N	002	TF	MAY	510101.86N 0000658.04E	N	319° (319.4°)	0.4	18.0	RIGHT	F200	-	RNAV1
UNDUG 1N	003	TF	VATON	512603.83N 0002056.10W	N	325° (325.2°)	0.4	30.6	RIGHT	-	-	RNAV1
UNDUG 1N	004	TF	OZZOT	514028.93N 0000952.93W	N	025° (025.5°)	0.4	16.0	-	F150	-	RNAV1
UNDUG 1N	005	TF	BPK	514459.05N 0000624.25W	N	025° (025.6°)	0.4	5.0	RIGHT	-	-250	RNAV1
UNDUG 1N	006	TF	ILLOC	515517.20N 0001056.60E	N	046° (046.1°)	0.4	14.9	LEFT	-	-	RNAV1
UNDUG 1N	007	TF	OXDUF	520636.20N 0001900.00E	N	023° (023.7°)	0.4	12.4	LEFT	-	-	RNAV1
UNDUG 1N	008	TF	COCCU	521604.34N 0000322.02W	N	304° (304.7°)	0.4	16.7	LEFT	-	-220	RNAV1
UNDUG 1N	009	TF	JUMZI	521943.58N 0002430.31W	Y	285° (285.9°)	0.4	13.5	RIGHT	-	-	RNAV1
UNDUG 1N	010	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

London Luton SIRIC 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SIRIC 1N	001	IF	SIRIC	512036.17N 0013358.89W	N	-	-	-	-	F180	-	RNAV1
SIRIC 1N	002	TF	NIGIT	511846.96N 0011014.71W	N	096° (096.8°)	0.4	15.0	LEFT	-	-	RNAV1
SIRIC 1N	003	TF	VATON	512603.83N 0002056.10W	N	076° (076.4°)	0.4	31.7	LEFT	-	-	RNAV1
SIRIC 1N	004	TF	OZZOT	514028.93N 0000952.93W	N	025° (025.5°)	0.4	16.0	-	F150	-	RNAV1
SIRIC 1N	005	TF	BPK	514459.05N 0000624.25W	N	025° (025.6°)	0.4	5.0	RIGHT	-	-250	RNAV1
SIRIC 1N	006	TF	ILLOC	515517.20N 0001056.60E	N	046° (046.1°)	0.4	14.9	LEFT	-	-	RNAV1
SIRIC 1N	007	TF	OXDUF	520636.20N 0001900.00E	N	023° (023.7°)	0.4	12.4	LEFT	-	-	RNAV1
SIRIC 1N	008	TF	COCCU	521604.34N 0000322.02W	N	304° (304.7°)	0.4	16.7	LEFT	-	-220	RNAV1
SIRIC 1N	009	TF	JUMZI	521943.58N 0002430.31W	Y	285° (285.9°)	0.4	13.5	RIGHT	-	-	RNAV1
SIRIC 1N	010	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

CHANGE (3/23): BEDEK 1N REPLACED WITH SIRIC 1N.
AERO INFO DATE 05 JAN 22

Standard Instrument Arrival Coding Tables

London Luton TELTU 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TELTU 1N	001	IF	TELTU	504839.92N 0004517.69W	N	-	-	-	-	F190	-	RNAV1
TELTU 1N	002	TF	MOREZ	511233.91N 0002948.60W	N	022° (022.1°)	0.4	25.8	-	-	-	RNAV1
TELTU 1N	003	TF	VATON	512603.83N 0002056.10W	N	022° (022.3°)	0.4	14.6	-	-	-	RNAV1
TELTU 1N	004	TF	OZZOT	514028.93N 0000952.93W	N	025° (025.5°)	0.4	16.0	-	F150	-	RNAV1
TELTU 1N	005	TF	BPK	514459.05N 0000624.25W	N	025° (025.6°)	0.4	5.0	RIGHT	-	-250	RNAV1
TELTU 1N	006	TF	ILLOC	515517.20N 0001056.60E	N	046° (046.1°)	0.4	14.9	LEFT	-	-	RNAV1
TELTU 1N	007	TF	OXDUF	520636.20N 0001900.00E	N	023° (023.7°)	0.4	12.4	LEFT	-	-	RNAV1
TELTU 1N	008	TF	COCCU	521604.34N 0000322.02W	N	304° (304.7°)	0.4	16.7	LEFT	-	-220	RNAV1
TELTU 1N	009	TF	JUMZI	521943.58N 0002430.31W	Y	285° (285.9°)	0.4	13.5	RIGHT	-	-	RNAV1
TELTU 1N	010	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

London Luton MEGEL 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MEGEL 1N	001	IF	MEGEL	522057.94N 0020425.20E	N	-	-	-	-	F220	-	RNAV1
MEGEL 1N	002	TF	DITOB	521701.15N 0014927.08E	N	246° (246.8°)	0.4	10.0	-	-	-	RNAV1
MEGEL 1N	003	TF	WIQID	520944.27N 0012214.94E	N	246° (246.6°)	0.4	18.2	RIGHT	-	-	RNAV1
MEGEL 1N	004	TF	MUCTE	521031.13N 0011225.43E	N	277° (277.4°)	0.4	6.1	-	-	-	RNAV1
MEGEL 1N	005	TF	OFJES	521302.03N 0003929.77E	N	277° (277.3°)	0.4	20.4	-	F140	-250	RNAV1
MEGEL 1N	006	TF	UDDIZ	521504.21N 0001111.43E	N	276° (276.9°)	0.4	17.5	-	-	-	RNAV1
MEGEL 1N	007	TF	COCCU	521604.34N 0000322.02W	N	276° (276.5°)	0.4	9.0	RIGHT	-	-220	RNAV1
MEGEL 1N	008	TF	JUMZI	521943.58N 0002430.31W	Y	285° (285.9°)	0.4	13.5	RIGHT	-	-	RNAV1
MEGEL 1N	009	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

CHANGE (2/25): BARMI 1N TRUNCATED TO MEGEL AND REDESIGNATED MEGEL 1N.
AERO INFO DATE 26 NOV 24

Standard Instrument Arrival Coding Tables

London Luton RINIS 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RINIS 1N	001	IF	RINIS	515429.66N 0021920.82E	N	-	-	-	-	F220	-	RNAV1
RINIS 1N	002	TF	IDESI	515351.74N 0015308.08E	N	268° (267.9°)	0.4	16.2	RIGHT	F180	-	RNAV1
RINIS 1N	003	TF	WIQID	520944.27N 0012214.94E	N	310° (310.0°)	0.4	24.8	LEFT	-	-	RNAV1
RINIS 1N	004	TF	MUCTE	521031.13N 0011225.43E	N	277° (277.4°)	0.4	6.1	-	-	-	RNAV1
RINIS 1N	005	TF	OFJES	521302.03N 0003929.77E	N	277° (277.3°)	0.4	20.4	-	F140	-250	RNAV1
RINIS 1N	006	TF	UDDIZ	521504.21N 0001111.43E	N	276° (276.9°)	0.4	17.5	-	-	-	RNAV1
RINIS 1N	007	TF	COCCU	521604.34N 0000322.02W	N	276° (276.5°)	0.4	9.0	RIGHT	-	-220	RNAV1
RINIS 1N	008	TF	JUMZI	521943.58N 0002430.31W	Y	285° (285.9°)	0.4	13.5	RIGHT	-	-	RNAV1
RINIS 1N	009	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

London Luton XAMAN 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
XAMAN 1N	001	IF	XAMAN	514704.77N 0021326.94E	N	-	-	-	-	F220	-	RNAV1
XAMAN 1N	002	TF	IDESI	515351.74N 0015308.08E	N	298° (298.5°)	0.4	14.3	RIGHT	F180	-	RNAV1
XAMAN 1N	003	TF	WIQID	520944.27N 0012214.94E	N	310° (310.0°)	0.4	24.8	LEFT	-	-	RNAV1
XAMAN 1N	004	TF	MUCTE	521031.13N 0011225.43E	N	277° (277.4°)	0.4	6.1	-	-	-	RNAV1
XAMAN 1N	005	TF	OFJES	521302.03N 0003929.77E	N	277° (277.3°)	0.4	20.4	-	F140	-250	RNAV1
XAMAN 1N	006	TF	UDDIZ	521504.21N 0001111.43E	N	276° (276.9°)	0.4	17.5	-	-	-	RNAV1
XAMAN 1N	007	TF	COCCU	521604.34N 0000322.02W	N	276° (276.5°)	0.4	9.0	RIGHT	-	-220	RNAV1
XAMAN 1N	008	TF	JUMZI	521943.58N 0002430.31W	Y	285° (285.9°)	0.4	13.5	RIGHT	-	-	RNAV1
XAMAN 1N	009	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

CHANGE (2/22): NEW PAGE.
AERO INFO DATE 02 DEC 21

Standard Instrument Arrival Coding Tables

London Luton TOSVA 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TOSVA 1N	001	IF	TOSVA	514037.40N 0020426.34E	N	-	-	-	-	F220	-	RNAV1
TOSVA 1N	002	TF	IDESI	515351.74N 0015308.08E	N	332° (332.2°)	0.4	15.0	LEFT	F180	-	RNAV1
TOSVA 1N	003	TF	WIQID	520944.27N 0012214.94E	N	310° (310.0°)	0.4	24.8	LEFT	-	-	RNAV1
TOSVA 1N	004	TF	MUCTE	521031.13N 0011225.43E	N	277° (277.4°)	0.4	6.1	-	-	-	RNAV1
TOSVA 1N	005	TF	OFJES	521302.03N 0003929.77E	N	277° (277.3°)	0.4	20.4	-	F140	-250	RNAV1
TOSVA 1N	006	TF	UDDIZ	521504.21N 0001111.43E	N	276° (276.9°)	0.4	17.5	-	-	-	RNAV1
TOSVA 1N	007	TF	COCCU	521604.34N 0000322.02W	N	276° (276.5°)	0.4	9.0	RIGHT	-	-220	RNAV1
TOSVA 1N	008	TF	JUMZI	521943.58N 0002430.31W	Y	285° (285.9°)	0.4	13.5	RIGHT	-	-	RNAV1
TOSVA 1N	009	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

London Luton SILVA 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SILVA 1N	001	IF	SILVA	515051.34N 0010019.40W	N	-	-	-	-	-	-	RNAV1
SILVA 1N	002	TF	WOBUN	520110.27N 0004400.00W	N	044° (044.3°)	0.4	14.4	-	-	-250	RNAV1
SILVA 1N	003	TF	EDCOX	521259.68N 0002419.92W	N	045° (045.6°)	0.4	16.9	LEFT	-	-220	RNAV1
SILVA 1N	004	TF	JUMZI	521943.58N 0002430.31W	Y	359° (359.1°)	0.4	6.7	RIGHT	-	-	RNAV1
SILVA 1N	005	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

London Luton FINMA 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FINMA 1N	001	IF	FINMA	515947.21N 0010313.34W	N	-	-	-	-	F150	-	RNAV1
FINMA 1N	002	TF	WOBUN	520110.27N 0004400.00W	N	083° (083.2°)	0.4	12.0	LEFT	-	-250	RNAV1
FINMA 1N	003	TF	EDCOX	521259.68N 0002419.92W	N	045° (045.6°)	0.4	16.9	LEFT	-	-220	RNAV1
FINMA 1N	004	TF	JUMZI	521943.58N 0002430.31W	Y	359° (359.1°)	0.4	6.7	RIGHT	-	-	RNAV1
FINMA 1N	005	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

CHANGE (2/22): NEW PAGE.
AERO INFO DATE 16 DEC 21

Standard Instrument Arrival Coding Tables

London Luton LISTO 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LISTO 1N	001	IF	LISTO	530835.93N 0021156.54W	N	-	-	-	-	-	-	RNAV1
LISTO 1N	002	TF	PEDIG	524447.59N 0014309.97W	N	143° (143.7°)	0.4	29.5	RIGHT	-	-	RNAV1
LISTO 1N	003	TF	ROGBI	521746.63N 0012006.37W	N	152° (152.3°)	0.4	30.5	-	F200	-	RNAV1
LISTO 1N	004	TF	FINMA	515947.21N 0010313.34W	N	149° (149.9°)	0.4	20.8	LEFT	F150	-	RNAV1
LISTO 1N	005	TF	WOBUN	520110.27N 0004400.00W	N	083° (083.2°)	0.4	12.0	LEFT	-	-250	RNAV1
LISTO 1N	006	TF	EDCOX	521259.68N 0002419.92W	N	045° (045.6°)	0.4	16.9	LEFT	-	-220	RNAV1
LISTO 1N	007	TF	JUMZI	521943.58N 0002430.31W	Y	359° (359.1°)	0.4	6.7	RIGHT	-	-	RNAV1
LISTO 1N	008	CF	ZAGZO	521812.97N 0001352.54W	N	149° (149.3°)	0.4	-	-	F080	-220	RNAV1

London Luton LOGAN 2A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOGAN 2A	001	IF	LOGAN	514451.32N 0013642.58E	N	-	-	-	-	F100	-	RNAV5
LOGAN 2A	002	TF	CLN	515054.50N 0010851.32E	N	289° (289.5°)	0.4	18.3	RIGHT	-	-250	RNAV5
LOGAN 2A	003	TF	ABBOT	520058.00N 0003558.49E	N	296° (296.5°)	0.4	22.7	-	F080	-220	RNAV5

London Luton DET 2A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DET 2A	001	IF	DET	511814.41N 0003550.19E	N	-	-	-	-	F170	-	RNAV5
DET 2A	002	TF	LOFFO	515012.00N 0003556.37E	N	360° (000.1°)	0.4	32.0	-	-	-250	RNAV5
DET 2A	003	TF	ABBOT	520058.00N 0003558.49E	N	360° (000.1°)	0.4	10.8	-	F080	-220	RNAV5

CHANGE (2/22): NEW PAGE.
AERO INFO DATE 08 DEC 21

RNAV Hold Coding Tables

London Luton ADLOG Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ADLOG	-	-	ADLOG	501925.00N 0004933.40W	Y	005° (005.3°)	0.4	1.5MIN	RIGHT	-F260 +F130	-240	RNAV1

London Luton HON Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HON	-	-	HON	522124.04N 0013949.41W	Y	144° (144.8°)	0.4	1.5MIN	RIGHT	-F350 +F150	-240	RNAV1

London Luton MUCTE Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MUCTE	-	-	MUCTE	521031.13N 0011225.43E	Y	277° (277.3°)	0.4	1.5MIN	RIGHT	-F210 +F150	-250*	RNAV1

* std speeds up to FL200
MAX 250KIAS FL210

London Luton UNDUG Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
UNDUG	-	-	UNDUG	504723.71N 0002530.03E	Y	319° (319.2°)	0.4	1.5MIN	RIGHT	-F240 +F200	-240	RNAV1

London Luton VATON Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
VATON	-	-	VATON	512603.83N 0002056.10W	Y	025° (025.5°)	0.4	1.5MIN	LEFT	-F200 +F180	-240	RNAV1

London Luton WOBUN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
WOBUN	-	-	WOBUN	520110.27N 0004400.00W	Y	083° (083.5°)	0.4	5.0NM	RIGHT	-F140 +F090	-220	RNAV1

London Luton ZAGZO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ZAGZO	-	-	ZAGZO	521812.97N 0001352.54W	Y	149° (149.3°)	0.4	1MIN	RIGHT	-F140 +F080	-220	RNAV1

CHANGE (2/22): NEW PAGE.
AERO INFO DATE 14 DEC 21

RNAV Hold Coding Tables

London Luton ABBOT Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ABBOT	-	-	ABBOT	520058.00N 0003558.49E	Y	265° (265.3°)	0.4	6.0NM	RIGHT	-F140 +F080	-220	RNAV5

London Luton LOGAN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOGAN	-	-	LOGAN	514451.32N 0013642.58E	Y	289° (289.5°)	0.4	1MIN up to FL140 1.5MIN FL150+	LEFT	-F410 +F100	-220* -240**	RNAV5

* up to and including FL140
** FL150 and above

CHANGE (2/22): NEW TABLE.
AERO INFO DATE 02 DEC 21

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 07
ZAGZO 1Q

TRANSITION ALTITUDE	**6000**
TRANSITION LEVEL	**ATC**
AREA MNM ALT (x100)	**23**

APP	129.550	LUTON RADAR
TWR	132.555, 126.730*	LUTON TOWER
RAD	128.750*	LUTON DIRECTOR
ATIS	120.580	LUTON INFORMATION

* See EGGW AD 2.18 for details.

WAYPOINTS

ZAGZO	: 521812.97N 0001352.54W
EFFUT	: 521142.36N 0001200.36W
GWN45	: 520607.61N 0001015.06W
GWN39	: 520225.12N 0001700.84W
GWN35	: 515950.08N 0002142.52W
GWN32	: 515852.03N 0002656.67W
GWW24	: 515404.06N 0003649.52W
GWW18	: 515230.10N 0004544.14W
GWW14	: 514839.58N 0004358.20W
ODWAD	: 514928.66N 0003919.43W

VAR 0.4°E - 2022
N
Annual Rate of Change 0.20°E

5 0 5 10NM
Scale 1:400 000

000 30W 000 00

ZAGZO
MAX 220KIAS
FL80

170° 6.6 **ZAGZO 1Q**

EFFUT
FL80

169° 5.7

GWN45
6000

228° 5.6

GWN39
5000

228° 3.9

GWN35

253° 3.4

GWN32

232° 7.8

GWW24

254° 5.7

GWW18
MAX 185KIAS
5000

164° 4.0

074° 3.0

ODWAD
3000

GWW14
4000

R214
2400
SFC

5200N

21 20 19 23 22 21

DESCENT PLANNING
Pilots should plan for possible descent clearance as detailed in the table below.
ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

WARNING
For Minimum Descent Rate requirements See ENR 1.1.3.2.

ROUTE DESIGNATOR	ROUTE	LEVELS
ZAGZO 1Q	**ZAGZO - EFFUT - GWN45 - GWN39 - GWN35 - GWN32 - GWW24 - GWW18 - GWW14 - ODWAD**	**ZAGZO** FL80 **EFFUT** FL80 **GWN45** 6000 **GWN39** 5000 **GWW18** 5000 **GWW14** +4000 **ODWAD** +3000

CHANGE (9/25): TOWER FREQUENCY.

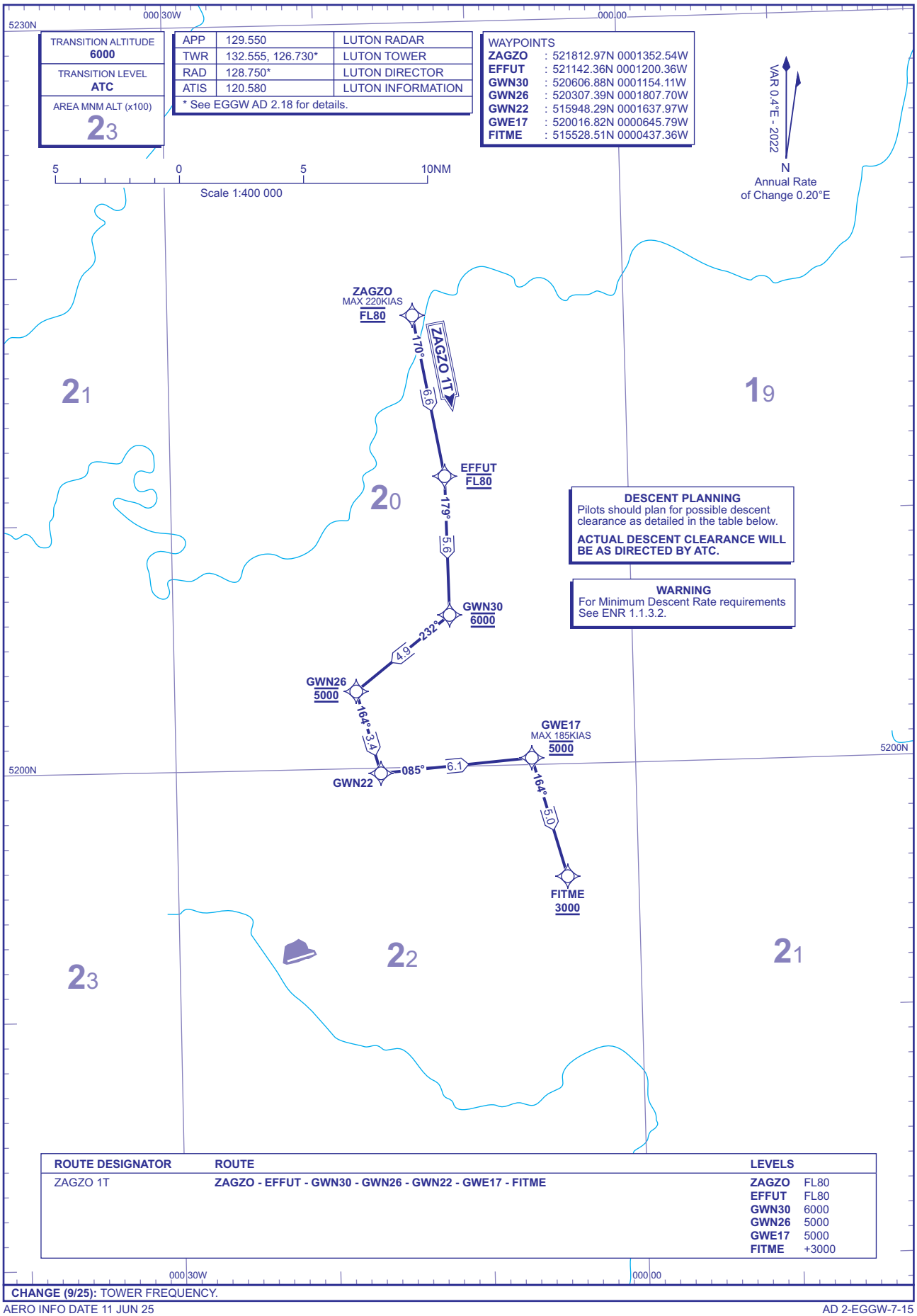
AERO INFO DATE 11 JUN 25

AD 2-EGGW-7-14

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
RWY 25
ZAGZO 1T



ROUTE DESIGNATOR	ROUTE	LEVELS
ZAGZO 1T	ZAGZO - EFFUT - GWN30 - GWN26 - GWN22 - GWE17 - FITME	ZAGZO FL80 EFFUT FL80 GWN30 6000 GWN26 5000 GWE17 5000 FITME +3000

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25

AD 2-EGGW-7-15

Approach Transitions Coding Tables

London Luton Runway 07 ZAGZO 1Q

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ZAGZO 1Q	001	IF	ZAGZO	521812.97N 0001352.54W	N	-	-	-	-	F080	-220	RNAV1
ZAGZO 1Q	002	TF	EFFUT	521142.36N 0001200.36W	N	170° (170.0°)	0.4	6.6	-	F080	-	RNAV1
ZAGZO 1Q	003	TF	GWN45	520607.61N 0001015.06W	N	169° (169.0°)	0.4	5.7	RIGHT	6000	-	RNAV1
ZAGZO 1Q	004	TF	GWN39	520225.12N 0001700.84W	N	228° (228.4°)	0.4	5.6	-	5000	-	RNAV1
ZAGZO 1Q	005	TF	GWN35	515950.08N 0002142.52W	N	228° (228.3°)	0.4	3.9	RIGHT	-	-	RNAV1
ZAGZO 1Q	006	TF	GWN32	515852.03N 0002656.67W	N	253° (253.4°)	0.4	3.4	LEFT	-	-	RNAV1
ZAGZO 1Q	007	TF	GWW24	515404.06N 0003649.52W	N	232° (231.9°)	0.4	7.8	RIGHT	-	-	RNAV1
ZAGZO 1Q	008	TF	GWW18	515230.10N 0004544.14W	N	254° (254.2°)	0.4	5.7	LEFT	5000	-185	RNAV1
ZAGZO 1Q	009	TF	GWW14	514839.58N 0004358.20W	N	164° (164.1°)	0.4	4.0	LEFT	+4000	-	RNAV1
ZAGZO 1Q	010	TF	ODWAD	514928.66N 0003919.43W	N	074° (074.1°)	0.4	3.0	-	+3000	-	RNAV1

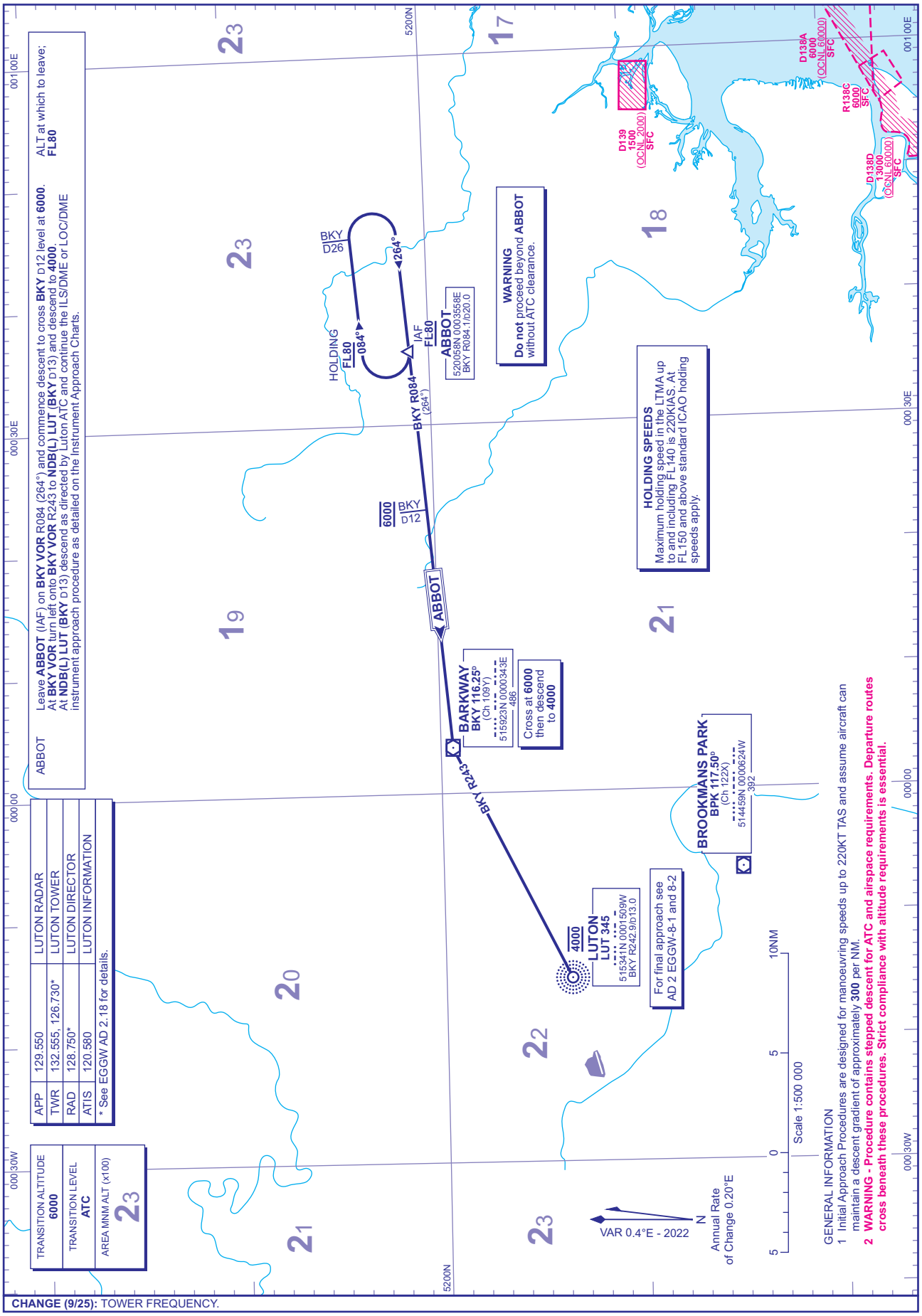
London Luton Runway 25 ZAGZO 1T

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ZAGZO 1T	001	IF	ZAGZO	521812.97N 0001352.54W	N	-	-	-	-	F080	-220	RNAV1
ZAGZO 1T	002	TF	EFFUT	521142.36N 0001200.36W	N	170° (170.0°)	0.4	6.6	RIGHT	F080	-	RNAV1
ZAGZO 1T	003	TF	GWN30	520606.88N 001154.11W	N	179° (179.3°)	0.4	5.6	RIGHT	6000	-	RNAV1
ZAGZO 1T	004	TF	GWN26	520307.39N 0001807.70W	N	232° (232.1°)	0.4	4.9	LEFT	5000	-	RNAV1
ZAGZO 1T	005	TF	GWN22	515948.29N 0001637.97W	N	164° (164.5°)	0.4	3.4	LEFT	-	-	RNAV1
ZAGZO 1T	006	TF	GWE17	520016.82N 0000645.79W	N	085° (085.5°)	0.4	6.1	RIGHT	5000	-185	RNAV1
ZAGZO 1T	007	TF	FITME	515528.51N 0000437.36W	N	164° (164.6°)	0.4	5.0	RIGHT	+3000	-	RNAV1

INITIAL APPROACH PROCEDURE
ILS RWY 07 Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
via ABBOT



CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25

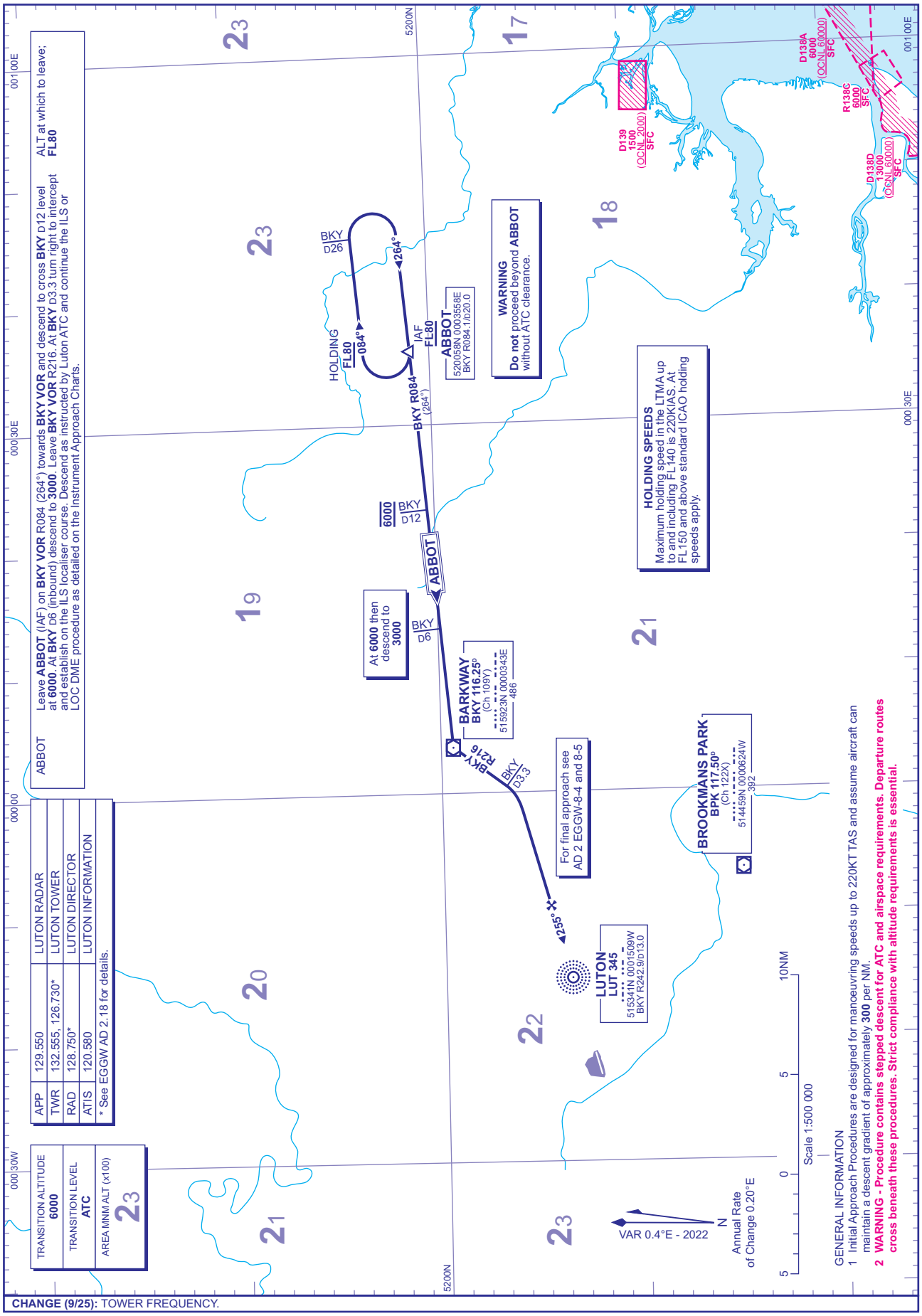
AD 2-EGGW-7-17

I

INITIAL APPROACH PROCEDURE
ILS RWY 25 Without Radar Control

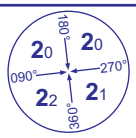
DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON LUTON
via ABBOT



INSTRUMENT APPROACH CHART - ICAO

LONDON LUTON
ILS/DME/NDB(L)
RWY 07
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LUT

APP	129.550	LUTON RADAR	AD ELEVATION	527	
TWR	132.555, 126.730	LUTON TOWER	THR ELEVATION	515	
	121.755	LUTON GROUND	OBSTACLE ELEVATION		
RAD	128.750	LUTON DIRECTOR	912 AMSL (397) (ABOVE THR)		
ATIS	120.580	ARRIVAL INFORMATION	BEARINGS ARE MAGNETIC		

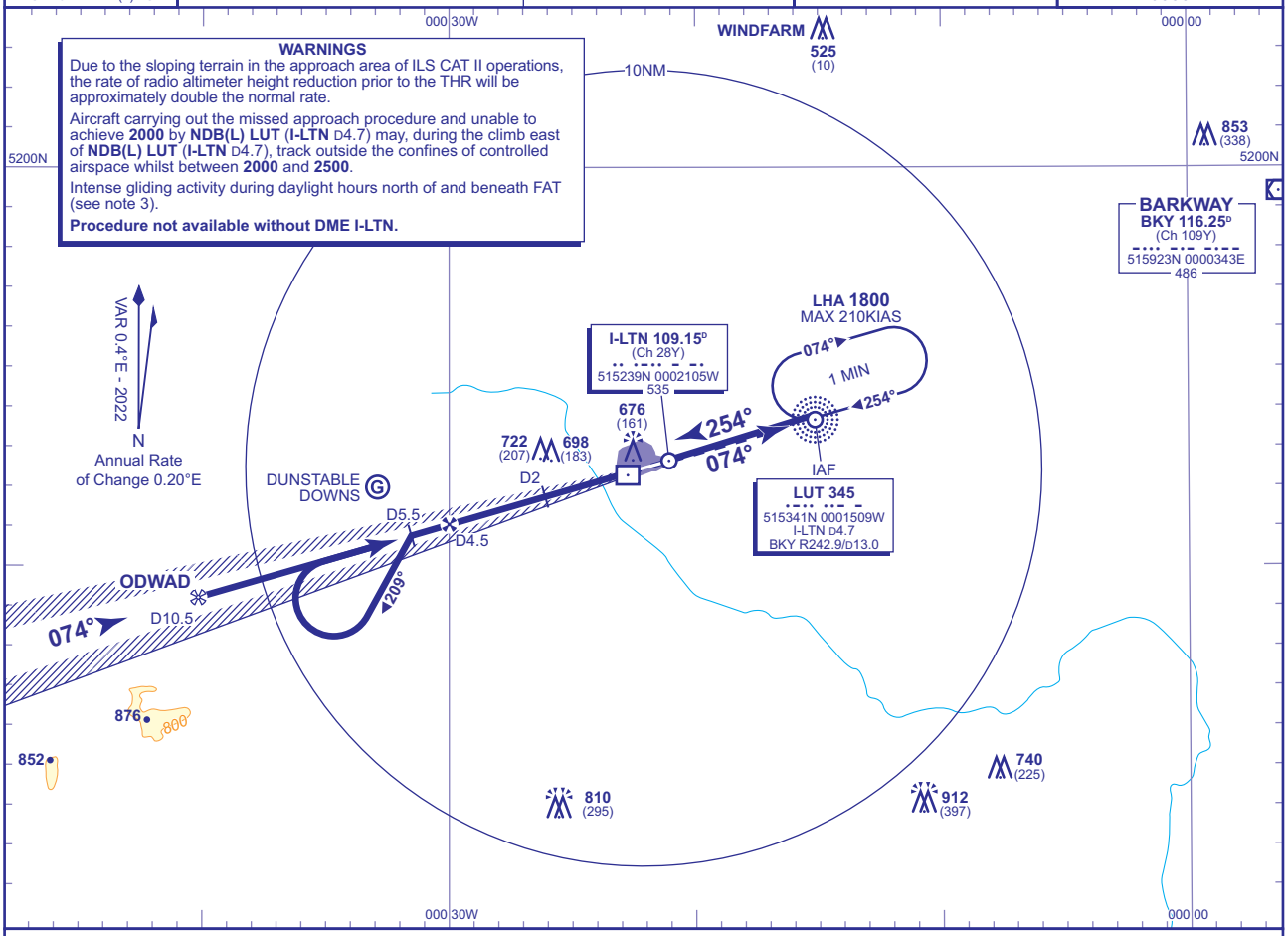
TRANSITION ALTITUDE **6000**

WARNINGS
Due to the sloping terrain in the approach area of ILS CAT II operations, the rate of radio altimeter height reduction prior to the THR will be approximately double the normal rate.

Aircraft carrying out the missed approach procedure and unable to achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) may, during the climb east of **NDB(L) LUT** (**I-LTN** D4.7), track outside the confines of controlled airspace whilst between **2000** and **2500**.

Intense gliding activity during daylight hours north of and beneath FAT (see note 3).

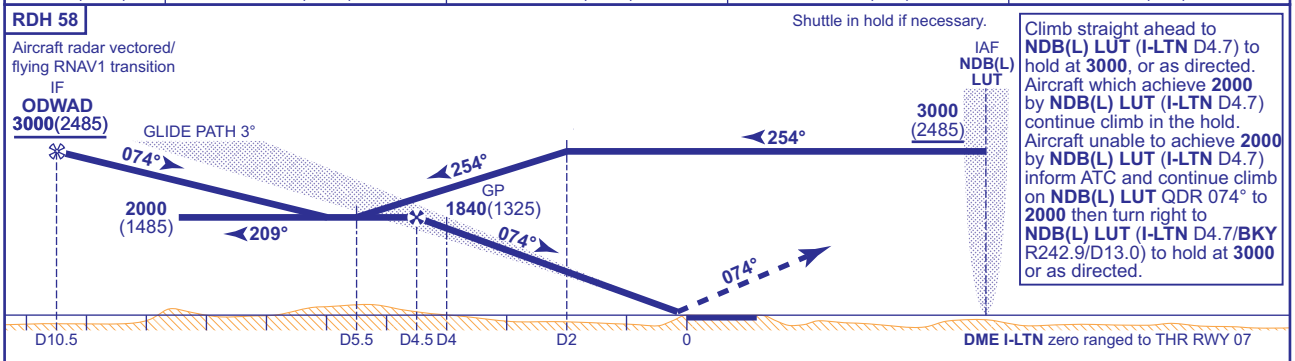
Procedure not available without DME I-LTN.



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-LTN	4	3	2	1
ALT(HGT)	**1840**(1325)	**1520**(1005)	**1210**(685)	**890**(375)

RDH 58



Shuttle in hold if necessary.

Climb straight ahead to **NDB(L) LUT** (**I-LTN** D4.7) to hold at **3000**, or as directed. Aircraft which achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) continue climb in the hold. Aircraft unable to achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) inform ATC and continue climb on **NDB(L) LUT** QDR 074° to **2000** then turn right to **NDB(L) LUT** (**I-LTN** D4.7/**BKY** R242.9/D13.0) to hold at **3000** or as directed.

DME I-LTN zero ranged to THR RWY 07

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**667**(152)	**679**(164)	**693**(178)	**707**(192)
	CAT II	**569**(54)	**579**(64)	**593**(78)	**611**(96)
VM(C)OCA (OCH AAL)	Total Area	**1100**(573)	**1100**(573)	**1300**(773)	**1300**(773)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	630	530	420

NOTE 1 Aircraft can normally expect to be radar vectored onto final approach.
2 Aircraft will normally be required to hold not lower than **3000**.
3 Gliding takes place in ceded airspace north of and beneath LOC. Pilots are warned not to descend below the GP/recommended descent profile. Page EGGW AD 2.22 Paragraph 6 refers.

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25

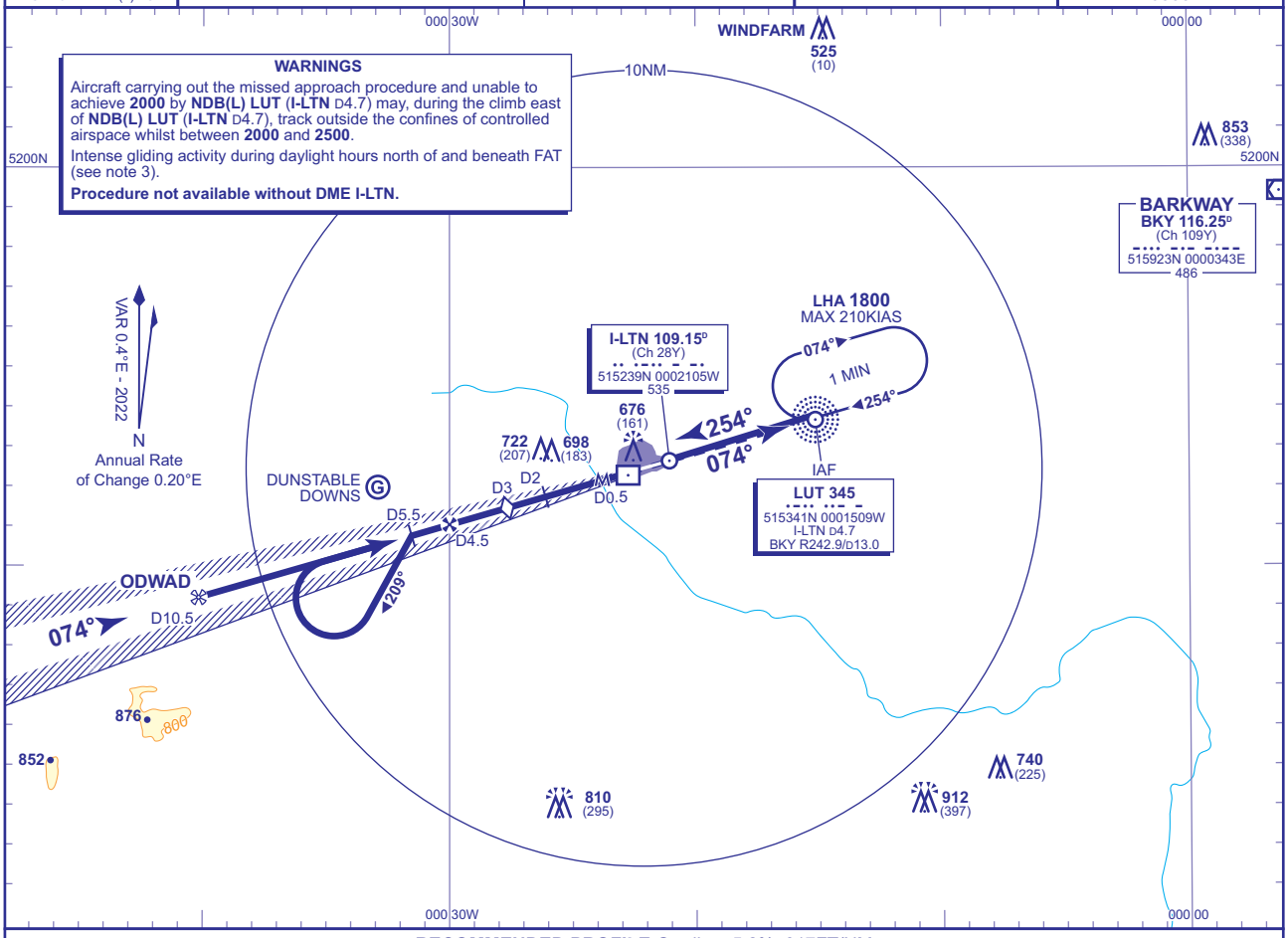
AD 2-EGGW-8-1

INSTRUMENT APPROACH CHART - ICAO

LONDON LUTON
LOC/DME/NDB(L)
RWY 07
(ACFT CAT A,B,C,D)

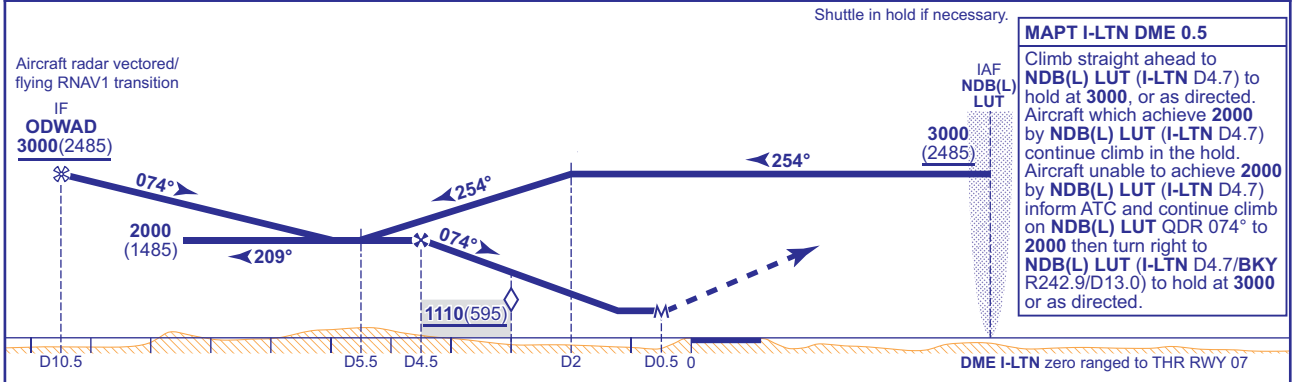
MSA 25NM NDB(L) LUT

APP	129.550	LUTON RADAR	AD ELEVATION	527	TRANSITION ALTITUDE 6000
TWR	132.555, 126.730	LUTON TOWER	THR ELEVATION	515	
	121.755	LUTON GROUND	OBSTACLE ELEVATION 912 AMSL (397) (ABOVE THR)		
RAD	128.750	LUTON DIRECTOR			
ATIS	120.580	ARRIVAL INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 317FT/NM

DME I-LTN	4	3 (SDF)	2	1
ALT(HGT)	**1840**(1325)	**1520**(1005)	**1210**(685)	**890**(375)



MAPT I-LTN DME 0.5

Climb straight ahead to **NDB(L) LUT** (**I-LTN** D4.7) to hold at **3000**, or as directed. Aircraft which achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) continue climb in the hold. Aircraft unable to achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) inform ATC and continue climb on **NDB(L) LUT** QDR 074° to **2000** then turn right to **NDB(L) LUT** (**I-LTN** D4.7/**BKY** R242.9/D13.0) to hold at **3000** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**920**(405)	**920**(405)	**920**(405)	**920**(405)
VM(C)OCA (OCH AAL)	**Total Area**	**1100**(573)	**1100**(573)	**1300**(773)	**1300**(773)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	630	530	420

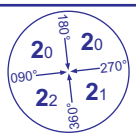
NOTE 1 Aircraft can normally expect to be radar vectored onto final approach.
2 Aircraft will normally be required to hold not lower than **3000**.
3 Gliding takes place in ceded airspace north of and beneath LOC. Pilots are warned not to descend below the GP/recommended descent profile. Page EGGW AD 2.22 Paragraph 6 refers.

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25 AD 2-EGGW-8-2

INSTRUMENT APPROACH CHART - ICAO

LONDON LUTON
SRA RTR 2NM
RWY 07
(ACFT CAT A,B,C,D)



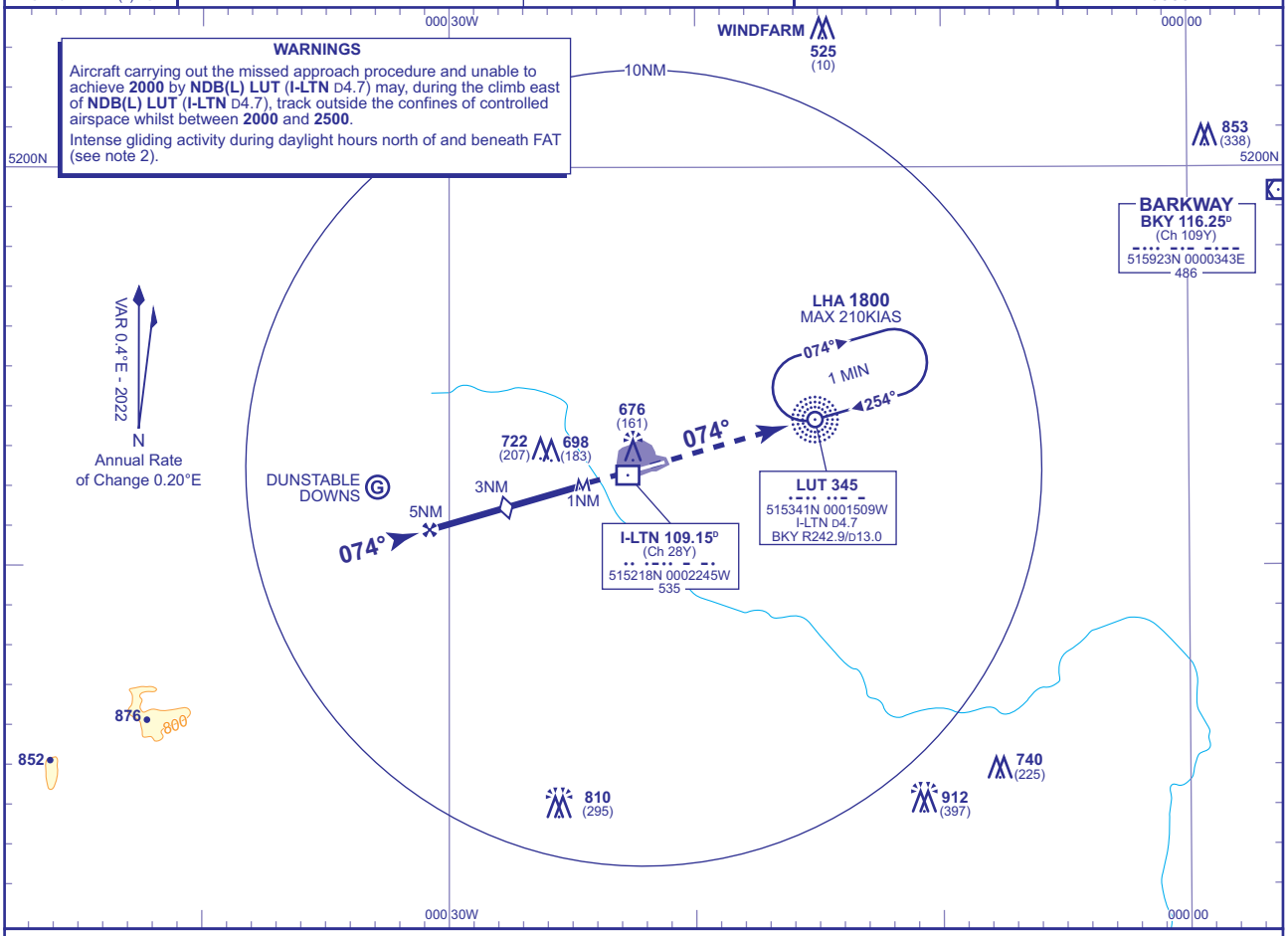
MSA 25NM NDB(L) LUT

APP	129.550	LUTON RADAR	AD ELEVATION	527	TRANSITION ALTITUDE 6000
TWR	132.555, 126.730	LUTON TOWER	THR ELEVATION	515	
	121.755	LUTON GROUND	OBSTACLE ELEVATION 912 AMSL (397) (ABOVE THR)		
RAD	128.750	LUTON DIRECTOR			
ATIS	120.580	ARRIVAL INFORMATION	BEARINGS ARE MAGNETIC		

WARNINGS

Aircraft carrying out the missed approach procedure and unable to achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) may, during the climb east of **NDB(L) LUT** (**I-LTN** D4.7), track outside the confines of controlled airspace whilst between **2000** and **2500**.

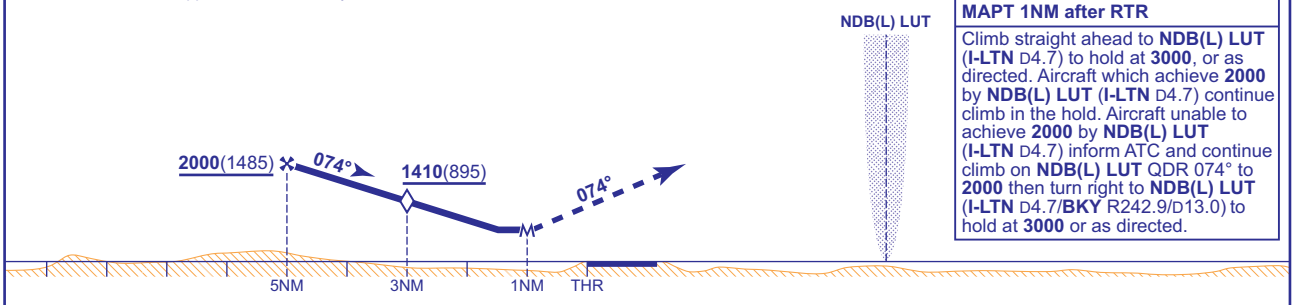
Intense gliding activity during daylight hours north of and beneath FAT (see note 2).



RADAR ADVISORY HEIGHTS Gradient 4.9%, 297FT/NM

NM	5.0	4.0	3.0 **(SDF)**	2.0
ALT(HGT)	**2000**(1485)	**1700**(1185)	**1410**(895)	**1110**(595)

Initial and intermediate approach as directed by radar.



MAPT 1NM after RTR

Climb straight ahead to **NDB(L) LUT** (**I-LTN** D4.7) to hold at **3000**, or as directed. Aircraft which achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) continue climb in the hold. Aircraft unable to achieve **2000** by **NDB(L) LUT** (**I-LTN** D4.7) inform ATC and continue climb on **NDB(L) LUT** QDR 074° to **2000** then turn right to **NDB(L) LUT** (**I-LTN** D4.7/**BKY** R242.9/D13.0) to hold at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**990**(475)	**990**(475)	**990**(475)	**990**(475)
VM(C)OCA (OCH AAL)	Total Area	**1100**(573)	**1100**(573)	**1300**(773)	**1300**(773)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	790	690	590	500	400
RTR to MAPT	MIN:SEC	0:23	0:26	0:30	0:36	0:45

NOTE 1 Aircraft will normally be required to hold not lower than **3000**.

2 Gliding takes place in ceded airspace north of and beneath LOC. Pilots are warned not to descend below the GP/recommended descent profile. Page EGGW AD 2.22 Paragraph 6 refers.

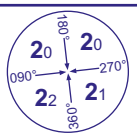
CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25

AD 2-EGGW-8-3

INSTRUMENT APPROACH CHART - ICAO

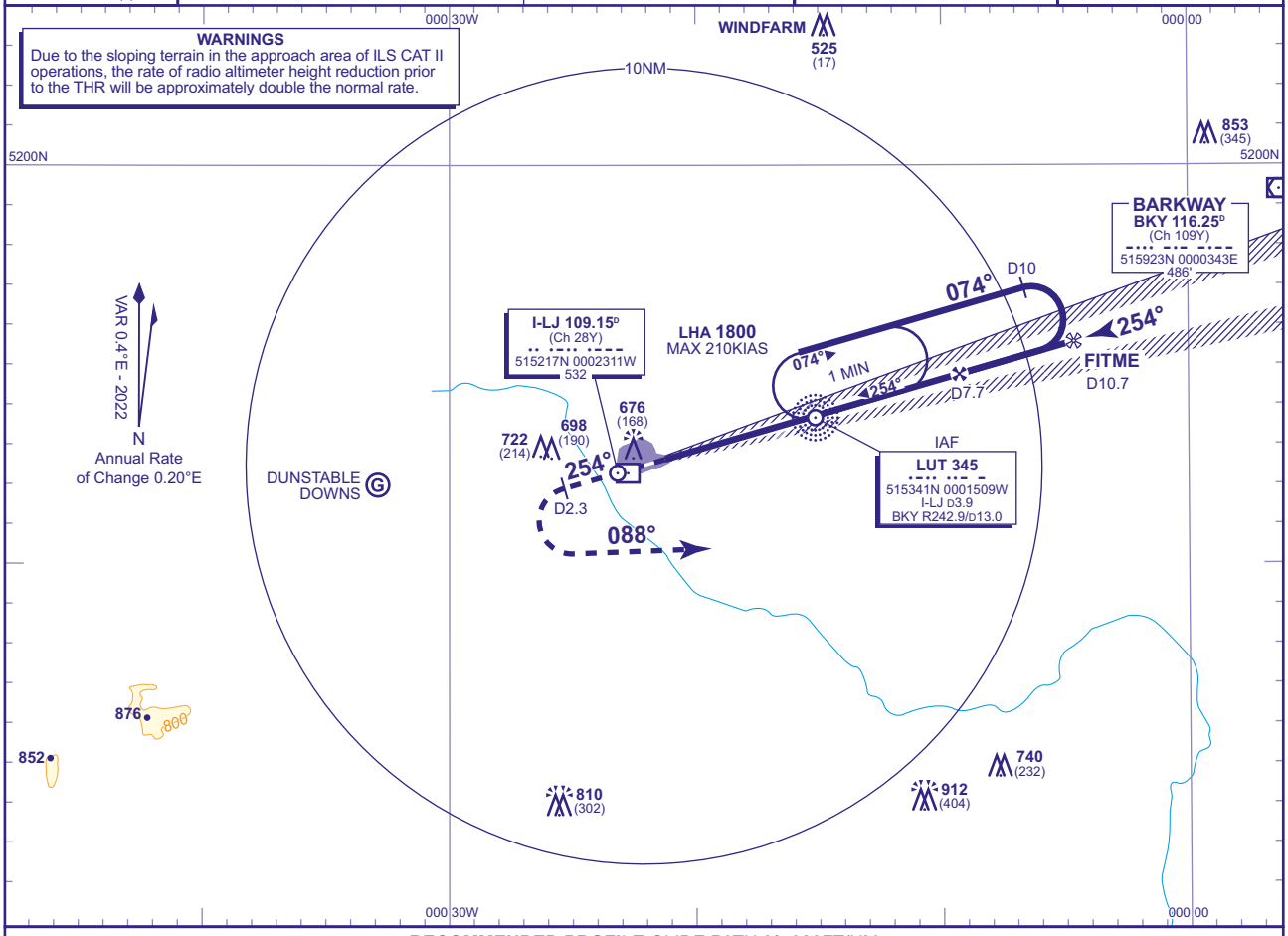
LONDON LUTON
ILS/DME/NDB(L)
RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LUT

APP	129.550	LUTON RADAR	AD ELEVATION	**527**	TRANSITION ALTITUDE **6000**
TWR	132.555, 126.730	LUTON TOWER	THR ELEVATION	**508**	
	121.755	LUTON GROUND	OBSTACLE ELEVATION **912 AMSL** (404) (ABOVE THR)		
RAD	128.750	LUTON DIRECTOR			
ATIS	120.580	ARRIVAL INFORMATION	BEARINGS ARE MAGNETIC		

WARNINGS
Due to the sloping terrain in the approach area of ILS CAT II operations, the rate of radio altimeter height reduction prior to the THR will be approximately double the normal rate.



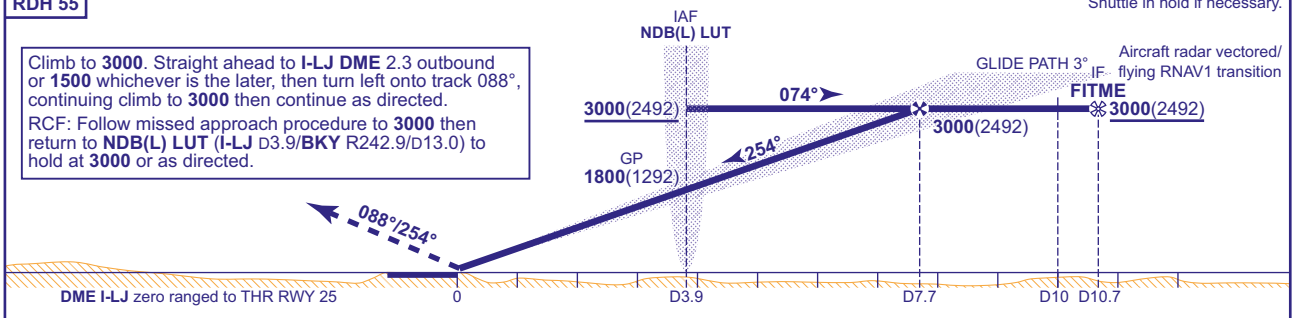
RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-LJ	7	6	5	4	3	2	1
ALT(HGT)	**2780**(2272)	**2460**(1952)	**2150**(1642)	**1830**(1322)	**1510**(1002)	**1200**(692)	**890**(382)

RDH 55

Shuttle in hold if necessary.

Climb to **3000**. Straight ahead to **I-LJ DME** 2.3 outbound or **1500** whichever is the later, then turn left onto track 088°, continuing climb to **3000** then continue as directed.
RCF: Follow missed approach procedure to **3000** then return to **NDB(L) LUT** (**I-LJ** D3.9/**BKY** R242.9/D13.0) to hold at **3000** or as directed.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**654**(146)	**664**(156)	**677**(169)	**691**(183)
	CAT II	**565**(57)	**572**(64)	**587**(79)	**602**(94)
VM(C)OCA (OCH AAL)	**Total Area**	**1100**(573)	**1100**(573)	**1300**(773)	**1300**(773)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	840	740	630	530	420

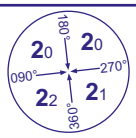
NOTE 1 Aircraft can normally expect to be radar vectored onto final approach.
2 Aircraft unable to receive DME inform ATC.
3 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25 AD 2-EGGW-8-4

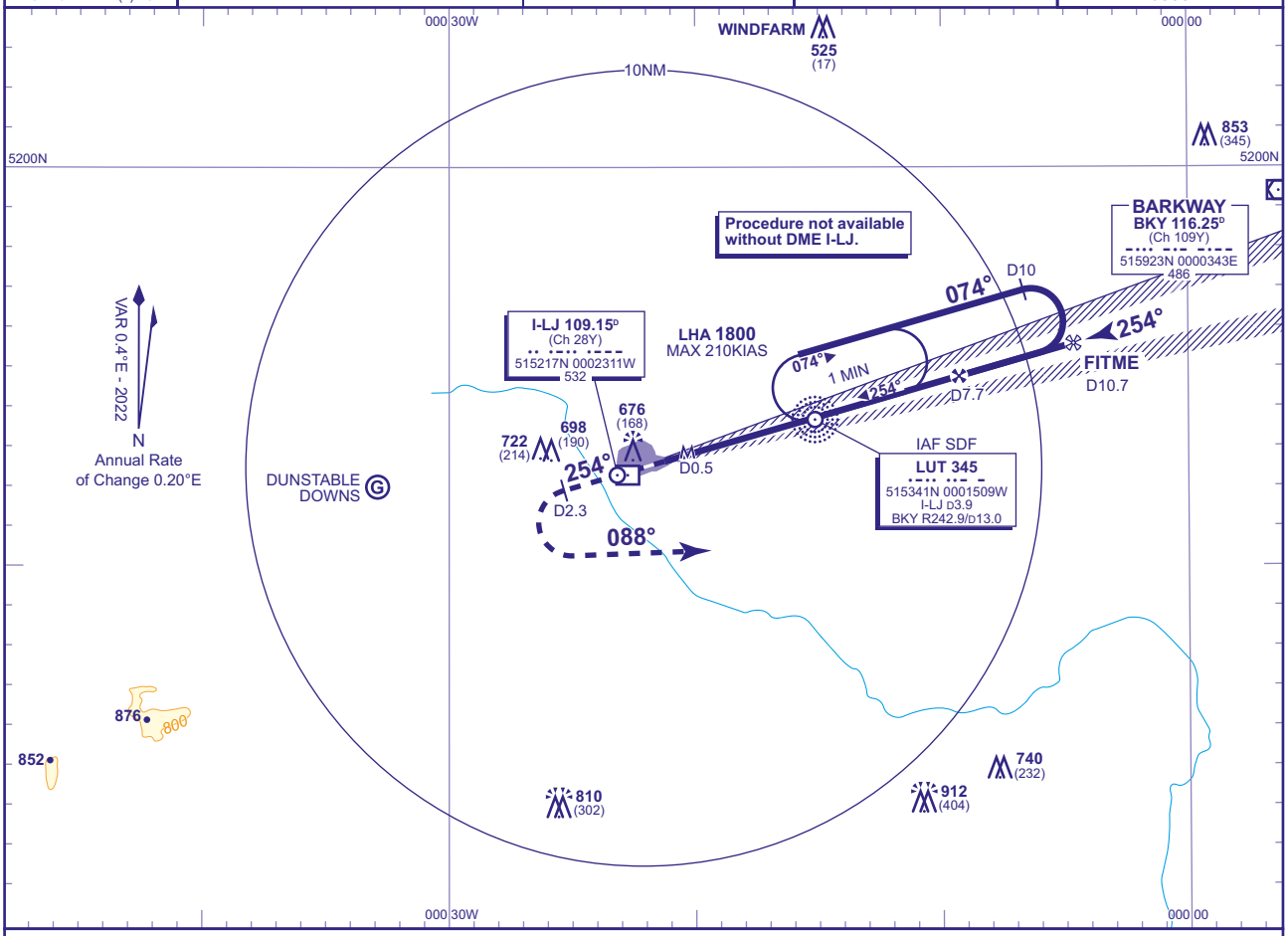
INSTRUMENT APPROACH CHART - ICAO

LONDON LUTON
LOC/DME/NDB(L)
RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LUT

APP	129.550	LUTON RADAR	AD ELEVATION	527	TRANSITION ALTITUDE 6000
TWR	132.555, 126.730	LUTON TOWER	THR ELEVATION	508	
	121.755	LUTON GROUND	OBSTACLE ELEVATION 912 AMSL (404) (ABOVE THR)		
RAD	128.750	LUTON DIRECTOR			
ATIS	120.580	ARRIVAL INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM

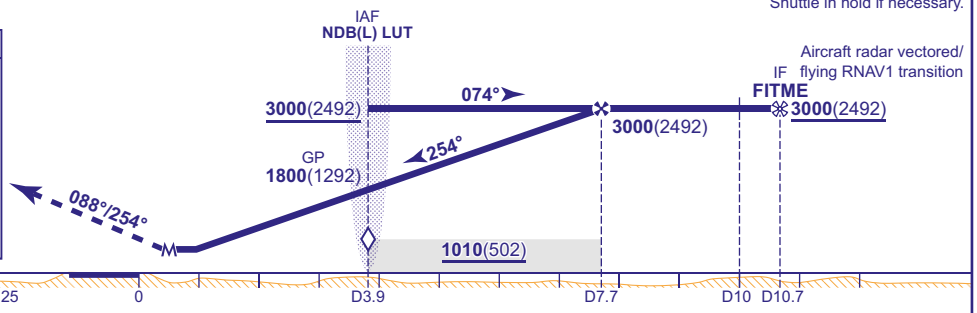
DME I-LJ	7	6	5	4	3.9 (SDF)	3	2	1
ALT(HGT)	**2780**(2272)	**2460**(1952)	**2150**(1642)	**1830**(1322)	**1800**(1292)	**1510**(1002)	**1200**(692)	**880**(372)

Shuttle in hold if necessary.

MAPT I-LJ DME 0.5

Climb to **3000**. Straight ahead to **I-LJ DME** 2.3 outbound or **1500** whichever is the later, then turn left onto track 088°, continuing climb to **3000** then continue as directed.

RCF: Follow missed approach procedure to **3000** then return to **NDB(L) LUT** (**I-LJ** D3.9/ **BKY** R242.9/D13.0) to hold at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**840**(332)	**840**(332)	**840**(332)	**840**(332)
VM(C)OCA (OCH AAL)	Total Area	**1100**(573)	**1100**(573)	**1300**(773)	**1300**(773)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420

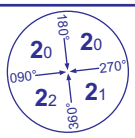
NOTE 1 Aircraft can normally expect to be radar vectored onto final approach.
2 Aircraft will normally be required to hold not lower than **3000**.

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25

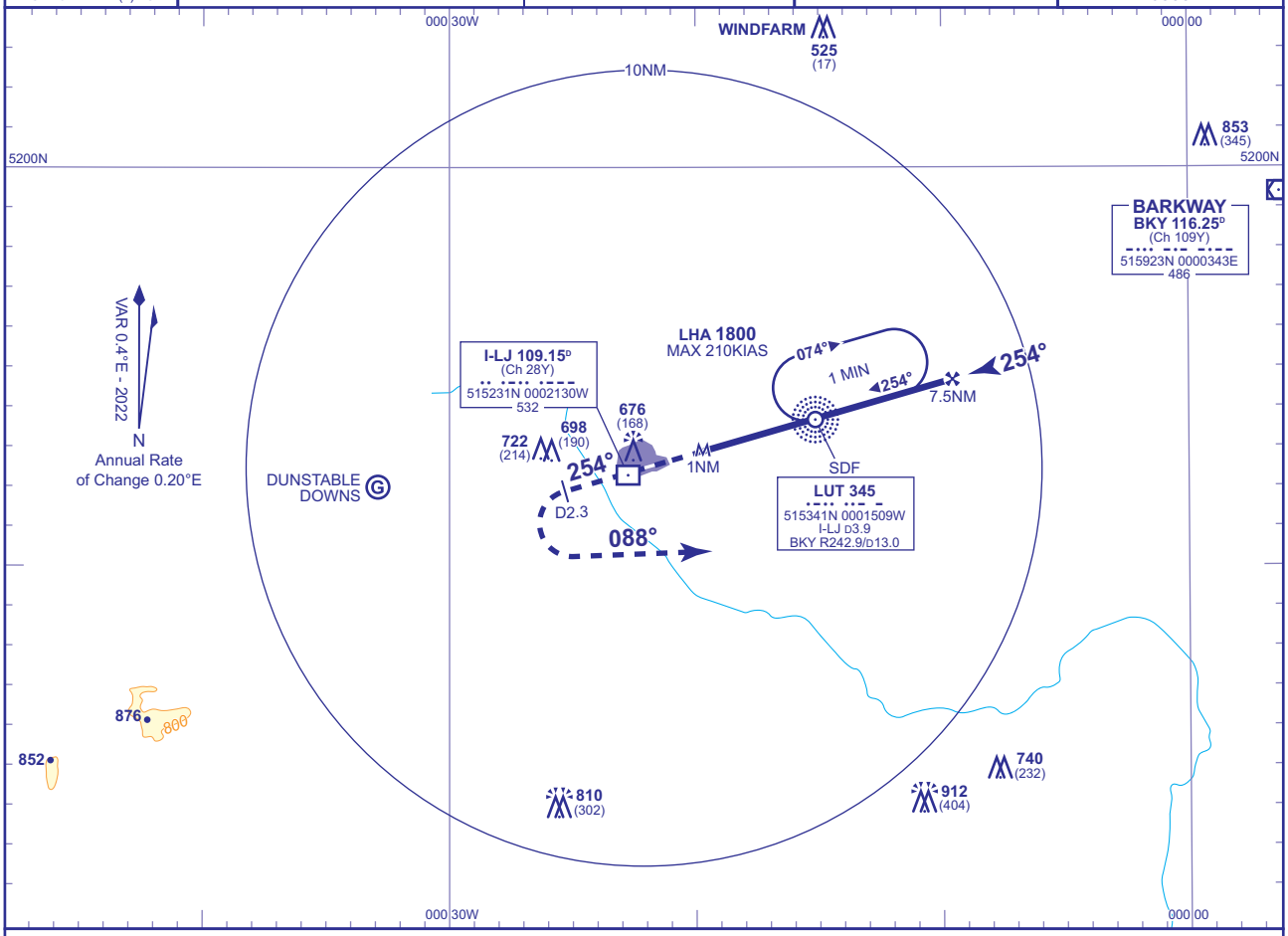
INSTRUMENT APPROACH CHART - ICAO

LONDON LUTON
SRA RTR 2NM
RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) LUT

APP	129.550	LUTON RADAR	AD ELEVATION	**527**	TRANSITION ALTITUDE **6000**
TWR	132.555, 126.730	LUTON TOWER	THR ELEVATION	**508**	
	121.755	LUTON GROUND	OBSTACLE ELEVATION **912 AMSL** (404) (ABOVE THR)		
RAD	128.750	LUTON DIRECTOR			
ATIS	120.580	ARRIVAL INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.35%, 325FT/NM

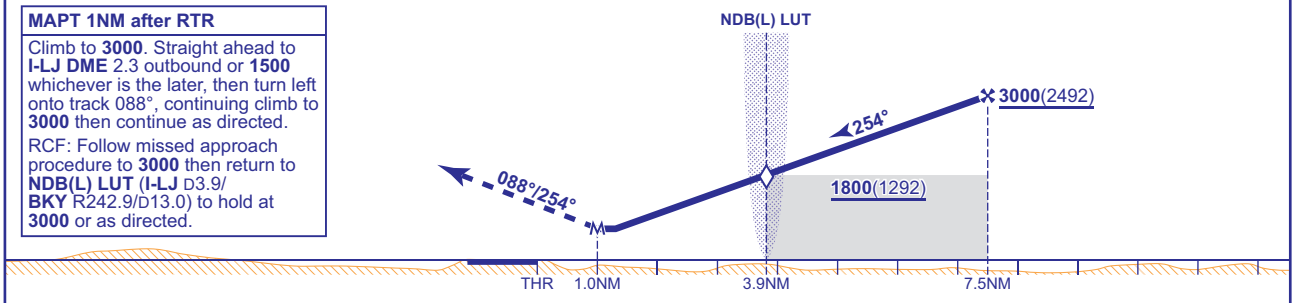
DME I-LJ	7.0	6.0	5.0	4.0	3.0	2.0
ALT(HGT)	**2780**(2272)	**2460**(1952)	**2130**(1622)	**1810**(1302)	**1480**(972)	**1160**(652)

Initial and intermediate approach as directed by radar.

MAPT 1NM after RTR

Climb to **3000**. Straight ahead to **I-LJ DME** 2.3 outbound or **1500** whichever is the later, then turn left onto track 088°, continuing climb to **3000** then continue as directed.

RCF: Follow missed approach procedure to **3000** then return to **NDB(L) LUT** (**I-LJ** D3.9/ **BKY** R242.9/D13.0) to hold at **3000** or as directed.



Aircraft Category		**A**	**B**	**C**	**D**	**Rate of descent**	**G/S KT**	160	140	120	100	80
OCA (OCH)	**Procedure**	**940**(432)	**940**(432)	**940**(432)	**940**(432)		**FT/MIN**	870	760	650	540	430
VM(C)OCA (OCH AAL)	**Total Area**	**1100**(573)	**1100**(573)	**1300**(773)	**1300**(773)	**RTR to MAPT**	**MIN:SEC**	0:22	0:26	0:30	0:36	0:45

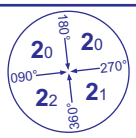
NOTE Aircraft unable to receive DME I-LJ, notify ATC.

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25 AD 2-EGGW-8-6

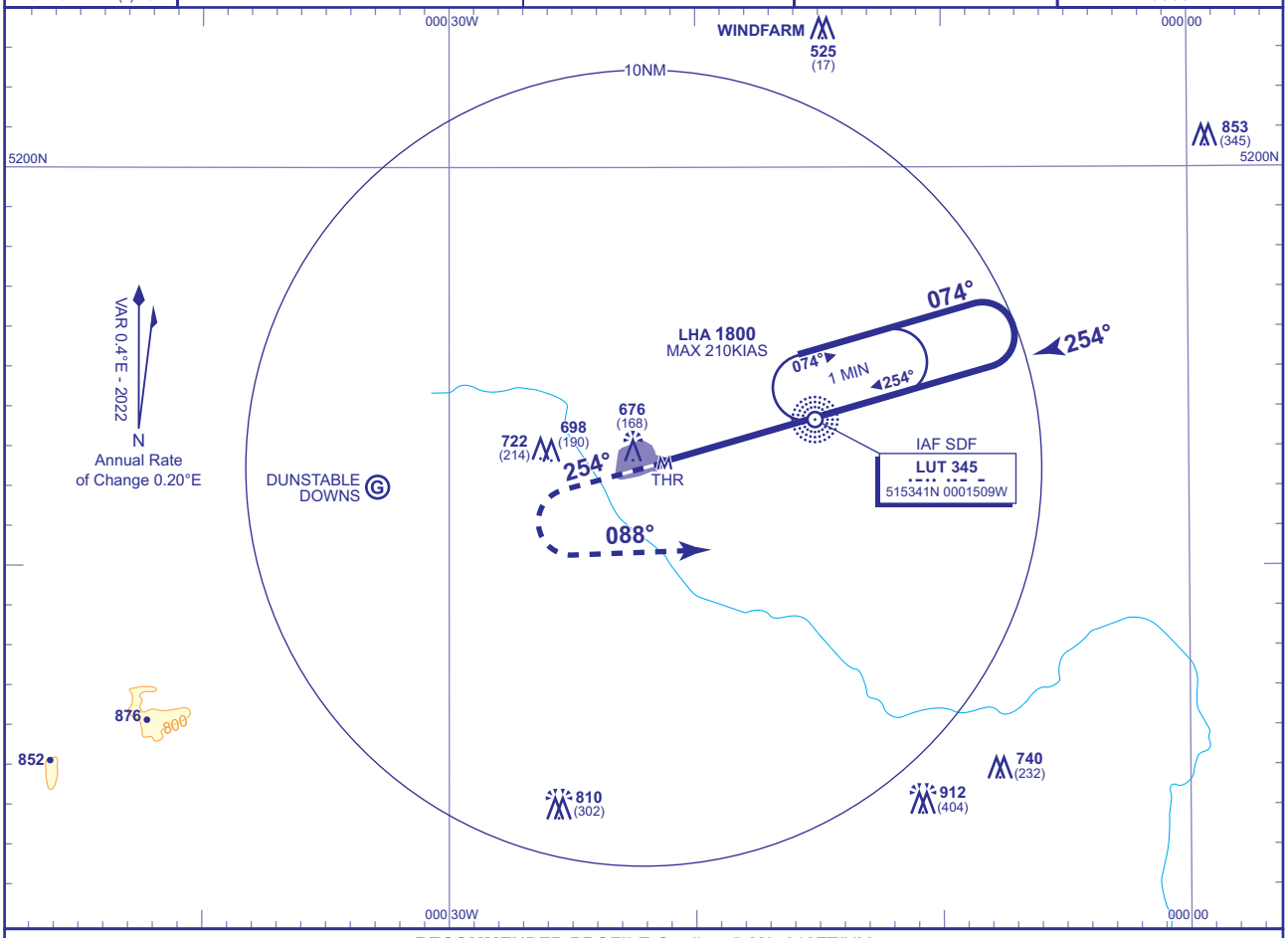
INSTRUMENT APPROACH CHART - ICAO

LONDON LUTON
NDB(L)
RWY 25
(ACFT CAT A,B,C,D)

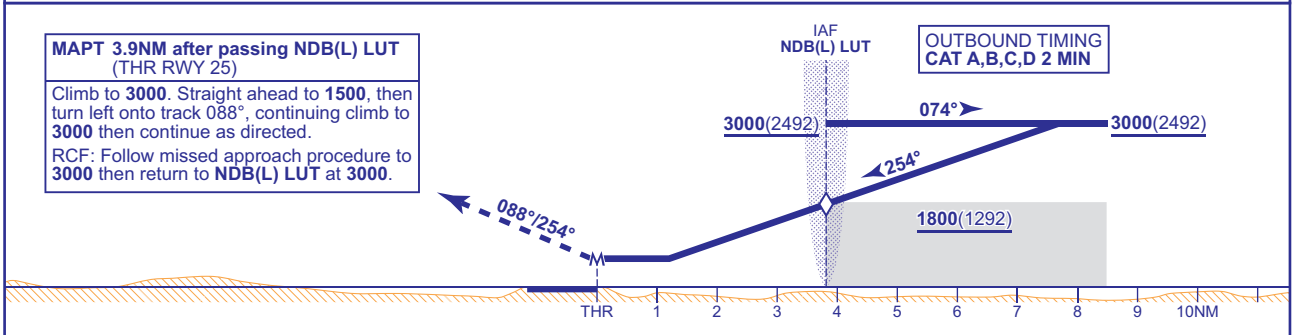


MSA 25NM NDB(L) LUT

APP	129.550	LUTON RADAR	AD ELEVATION	527	TRANSITION ALTITUDE 6000
TWR	132.555, 126.730	LUTON TOWER	THR ELEVATION	508	
	121.755	LUTON GROUND	OBSTACLE ELEVATION 912 AMSL (404) (ABOVE THR)		
RAD	128.750	LUTON DIRECTOR			
ATIS	120.580	ARRIVAL INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 316FT/NM



MAPT 3.9NM after passing NDB(L) LUT (THR RWY 25)

Climb to **3000**. Straight ahead to **1500**, then turn left onto track 088°, continuing climb to **3000** then continue as directed.

RCF: Follow missed approach procedure to **3000** then return to **NDB(L) LUT** at **3000**.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	930(422)	930(422)	930(422)	930(422)		FT/MIN	840	740	630	530	420
VM(C)OCA (OCH AAL)	Total Area	1100(573)	1100(573)	1300(773)	1300(773)	NDB(L) to MAPT	MIN:SEC	1:28	1:40	1:57	2:20	2:56

NOTE Aircraft will normally be required to hold not lower than **3000**.

CHANGE (9/25): TOWER FREQUENCY.

AERO INFO DATE 11 JUN 25

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EGSS — LONDON STANSTED

EGSS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSS — LONDON STANSTED

EGSS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515306N Long: 0001406E Mid point of Runway 04/22.
2	Direction and distance from city	2.5 NM ENE of Bishops Stortford.
3	Elevation / Reference temperature / Mean Low Temperature	348 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	150 FT
5	Magnetic Variation / Annual Change	0.61°E (2022) / 0.20°E
6	AD Administration Address Telephone	STANSTED AIRPORT LTD. Enterprise House, Stansted Airport, Stansted, Essex CM24 1QW. 0808-169-7031 (STAL) 01279-669328 (NATS Ltd) 01279-669325 (ATIS)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone calls to NATS Ltd operational areas may be recorded.

EGSS AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24 Prior notice by 2100 (2000) required for movements between 2300-0700 (2200-0600).
3	Health and sanitation	Health Control Officers in attendance for High Risk Flights. H24 Answerphone. Animal Border Inspection Post available.
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24 See also AD 2.18.
8	Fuelling	H24 for aircraft stands on the southside of the airport. 0600-2100 (0500-2100) for aircraft stands on the northside of the airport. Out of hours prior booking with fuelling provider listed at EGSS AD 2.4, Section 7.
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Refer to AD 2.20 item 1.

EGSS AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full. Nearest railway siding: Stansted 2.2 NM.
2	Fuel and oil types	AVTUR JET A-1. Various by arrangement with fuel companies.
3	Fuelling facilities/capacity	Southside, full hydrant facility except Stands D70, D71, D72, D73, D74. Northside, bowser refuelling.
4	De-icing facilities	Available H24 by arrangement with local companies.
5	Hangar space for visiting aircraft	By arrangement with local companies.
6	Repair facilities for visiting aircraft	Maintenance and repair by arrangement.

7	Remarks	Oxygen and related servicing, by arrangement with local companies. The following companies provide a handling service for all executive and private aircraft: Harrods Business Aviation Ltd, Tel: 01279-665312. Fax: 01279-681367. e-mail: stnops@harrodsaviation.com Universal Aviation (UK) Ltd, Tel: 01279-680349. Fax: 01279-680372. e-mail: uk@universalaviation.aero Inflite Ltd, Tel: 01279-831000. Fax: 01279-837900. e-mail: operations@inflite.co.uk Diamond Hangar Ltd, Tel: 01279-680161. e-mail: operations@diamondhangar.com AVTUR JET A-1, oxygen and related servicing available by arrangement with Handling Agent. Prior Permission Required (PPR) not less than 4 hours before intended movement. General Aviation operators must notify the following details of each flight in advance through their nominated handling agent who will obtain prior permission (Handling Agent requirement is mandatory). 1 – Aircraft type, registration and operator; 2 – Point of origin; 3 – Date/time of ETA and ETD Stansted; 4 – Nominated Handling Agent.

EGSS AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the vicinity.
2	Restaurants	Buffet and bar.
3	Transportation	Trains, buses, taxis and hire cars. Nearest railway station: Stansted Airport (connected to passenger terminal).
4	Medical facilities	Limited first aid treatment available.
5	Bank and Post Office	Bureau de Change in Terminal. No post Office.
6	Tourist Office	
7	Remarks	

EGSS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8, 9 and 10 on request.
2	Rescue equipment	In accordance with EASA Regulations.
3	Capability for removal of disabled aircraft	The registered owner or aircraft operator retains complete responsibility for the removal of a disabled aircraft. Airlines and aircraft operators are to have aircraft recovery plans and/or a confirmed contract in place. Aircraft recovery arrangements must be submitted to Airside Operations, Stansted Airport Ltd.
4	Remarks	

EGSS AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing, Sanding.Gritting.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Latest Information from SNOWTAM/STAL AODM Tel: 01279-662378.

EGSS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN TERMINAL STANDS Surface: Concrete NORTHSIDE STANDS AND GA Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway FOXTROT: 23 M Surface: Asphalt PCN 80/R/D/W/T Taxiway FOXTROT ALPHA: 18 M Surface: Concrete PCN 78/R/C/W/T Taxiway GOLF: 27 M Surface: Concrete and asphalt PCN 67/R/D/W/T Taxiway HOTEL: 23 M Surface: Concrete PCN 78/R/C/W/T Taxiway JULIET: 23 M Surface: Concrete PCN 78/R/C/W/T
3	Altimeter checkpoint location and elevation	500 Apron 329 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	Taxiway Foxtrot between intermediate holding point F1 and Taxiway Foxtrot Alpha is 25 m.

EGSS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Azimuth and stopping guidance is provided as follows: AGNIS/Double stop arrows. Stands C40, D64R, D72L, D72R, D73L, D73R, Z204R, Z204L, Z205R, Z205L, Z213L, Z213R, Z214L, Z214R, 520. Safedock: A1, A1L, A1R, A2, A3, A4, A5, A6, A7, A8, A9L, A9C, A9R, A10, A11, A11L, A11R, A12L, A12C, A12R, A13L, A13C, A13R, A14L, A14R, A15, B20, B21, B22, B23L, B23R, B24L, B24R, B30, B31, B32L, B32R, B33L, B34L, B34R, C41, C42L, C43L, C43R, C44L, C44R, C50L, C50R, C51L, C51R, C52L, C52R, C53L, C53R, D61L, D61R, D62L, D62R, D63L, D63R, D64L, E81L, E81R, E82L, E82R, E83L, E83R, E84L, E84R, E90L, E90R, E91L, E91R, E92L, E92R, E93L, E93R, J25L, J25R, J45R, J65L, J65R, J85L, J85R, Z204, Z205, Z213, Z214. Marshaller instructions: B23C, B24C, B32C, B33C, B33R, B34C, C40, C42C, C42R, C43C, C44C, C50C, C51C, C52C, D61C, D62C, D63C, D70L, D70R, D71L, D71R, D74, E81, E82, E90, E91, E92, E93, J45L, Z204F. Painted Stop Arrows and centre-line Stands: H03L, H03C, H03R, 501, 503, 504, 505L, 505R, 506, 507, 509. Stand Number indicator board provided on all stands except E81, E82, E90, E91, E92, E93, 501, 502, 507 and 509. East and West centre-lines in Alpha, Bravo, Charlie, Echo and Zulu Cul-de-Sacs available for H24 and limited to aircraft with a maximum wingspan of 36 M. Taxi-lanes Link Delta restricted to aircraft with a maximum wingspan of 51.9 M.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 04/22: Runway designation, runway threshold, (04/22) runway centre-line and touchdown zone markings and runway edge markings.

		Taxiway light(s): Green centre-line lighting with selective route switching is provided on Taxiways Golf, Juliet and Hotel. Blue edge lighting is available on Taxiway Foxtrot, Taxilane Foxtrot Alpha and the Western Apron. Illuminated lead-on/off routes are provided at: Golf, Uniform, Victor, Whiskey, Hotel, Kilo, Lima, Lima Romeo, November Romeo, Papa Romeo, Papa, Quebec Romeo, Quebec, Romeo and Sierra holding points. Green Lead-on/off lighting is suppressed when red hold bars are illuminated. Guard lights at all runway entry points.
3	Stop bars and runway guard lights (if any)	At all CAT I and CAT II/III runway holding points. Hotel and Juliet have stop bars along their length and within all cul-de-sacs. No stop bars on Taxiways Foxtrot and Golf. Stop bars at runway holding points are in operation H24.
4	Other runway protection measures	
5	Remarks	The main aprons are marked for nose-in parking only. All operators should ensure that their handling agents can supply tractor push-back facilities. Taxiway Juliet: An Airside Operations marshaller is required for aircraft under their own power with a maximum wingspan greater than 51.9 M when routing behind stands J25L/R, J45L/R, J65L/R and J85L/R. Western Apron: Is restricted to aircraft with a maximum wingspan of 36 M. Delta Cul-de-Sac wingspan restriction of 38.10 M. Painted taxiway intermediate holding points to be used at ATC's discretion are located on Taxiways Foxtrot and Golf and are designated: F1, FA1, F2, F3, F4 and G4. For marshaller contact, Tel: 01279-662478. Pilots should not enter an aircraft stand unless Stand Entry Guidance is illuminated or a marshaller has signalled clearance to proceed. In the event of there being no activated SEG displayed upon approach to the stand, flight crews should inform Ground Movement Control (GMC) and contact their handling agent. Aircrew must not attempt to self-park if the SEG is not illuminated or calibrated for their aircraft type. Safedock Advanced Visual Docking Guidance System The safedock advanced visual docking guidance system (A-VDGS), provides both pilots with guidance for manoeuvring the aircraft into the gate to the correct centre-line and stop position under all operational conditions. Alpha Middle line has blue paint markings to assist decision making when entering the Alpha Cul-de-Sac. Note: In case of malfunction in the docking guidance system stop taxiing and contact Stansted Ground/Tower and request assistance. 3x WDI: 515318.58N 0001405.52E - 515336.99N 0001503.18E (LGTD) - 515235.91N 0001333.68E (LGTD).

EGSS AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSS7311) 22/APPROACH 04/ TAKE-OFF	TREE	515422.41N 0001600.15E	456 FT	90 FT	No	Trees in 22/Approach 04/ Take-off relate to highest wooded area.
(EGSS5912) 22/APPROACH 04/ TAKE-OFF	TREE	515421.25N 0001600.00E	458 FT	92 FT	No	Trees in 22/Approach 04/ Take-off relate to highest wooded area.
(EGSS6045) 22/APPROACH 04/ TAKE-OFF	TREE	515420.63N 0001622.98E	452 FT	82 FT	No	Trees in 22/Approach 04/ Take-off relate to highest wooded area.
(EGSS7318) 22/APPROACH 04/ TAKE-OFF	TREE	515420.42N 0001559.51E	451 FT	86 FT	No	Trees in 22/Approach 04/ Take-off relate to highest wooded area.
(EGSS3187) 22/APPROACH 04/ TAKE-OFF	LLZ RH 04	515351.32N 0001514.96E	362 FT	15 FT	Yes Red	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSS3201) 04/APPROACH 22/ TAKE-OFF	FFM	515221.06N 0001257.88E	335 FT	21 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSS1620)	ATC OBS LIGHT	515307.09N 0001516.19E	525 FT	214 FT	Yes Red	
(EGSS2007)	MAST	515246.93N 0001657.17E	502 FT	171 FT	Yes Red	

EGSS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 30 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	LONDON STANSTED
10	Additional information (limitation of service, etc.)	Surface wind data (2 minute average) is available for both ends of the runway. Normally, only touchdown surface wind will be passed. Stopend surface wind and instantaneous surface wind available on request for both ends. AUTO METARs are provided over the 24 hour period and verified by a certificated Met Observer.

EGSS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
04	042.87°	3049 x 46 M	RWY surface: Asphalt, Grooved PCN 117/F/D/W/T	515237.35N 0001322.30E 149.8 FT	THR 332.3 FT TDZ 337.5 FT	
22	222.89°	3049 x 46 M	RWY surface: Asphalt, Grooved PCN 117/F/D/W/T	515342.57N 0001500.16E 149.8 FT	THR 347.7 FT TDZ 347.7 FT	
04C	042.87°			515257.52N 0001352.56E 149.8 FT	THR 337.3 FT	
22C	222.88°			515322.40N 0001429.88E 149.8 FT	THR 334.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	289 x 150 M	3169 x 280 M	240 x 92 M -			RWY 04 Landing threshold is displaced by 298 M. Paved shoulders extend for 7.6 M either side of the declared runway width, which is denoted by white side stripes. A stabilised grass outer shoulder is prepared to a width of 7.5m along the full length of the runway beyond the hard shoulders.
	267 x 150 M	3169 x 280 M	240 x 92 M -			RWY 22 Paved shoulders extend for 7.6 M either side of the declared runway width, which is denoted by white side stripes. A stabilised grass outer shoulder is prepared to a width of 7.5 M along the full length of the runway beyond the hard shoulders.
						RWY 04C Maintenance Threshold Co-ordinates: To be used during Reduced Distance Operations only. See AD 2.20 Section 6 (i).
						RWY 22C Maintenance Threshold Co-ordinates: To be used during Reduced Distance Operations only. See AD 2.20 Section 6 (i).

EGSS AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
04	3049 M	3338 M	3049 M	2749 M	
04	2198 M	2198 M	2198 M	1900 M	To be utilised during Reduced Distance Operations only. See AD 2.20 Section 6 (i). Revised Aerodrome Charts will be published within a SUP as required.
22	3049 M	3316 M	3049 M	3049 M	
22	1900 M	1900 M	1900 M	1900 M	To be utilised during Reduced Distance Operations only. See AD 2.20 Section 6 (i). Revised Aerodrome Charts will be published within a SUP as required.
04	2823 M	3112 M	2823 M		Take-off from intersection of Hold K1.
04	2392 M	2681 M	2392 M		Take-off from intersection of Hold L1.
04	1834 M	2123 M	1834 M		Take-off from intersection of Hold V1.
22	2685 M	2952 M	2685 M		Take-off from intersection of Hold Q1.
22	2334 M	2601 M	2334 M		Take-off from intersection of Hold P3.
22	1830 M	2097 M	1830 M		Take-off from intersection of Hold U.
04C	1900 M	2189 M	1900 M	1900 M	To be utilised during Reduced Distance Operations only. See AD 2.20 Section 6 (i). Revised Aerodrome Charts will be published within a SUP as required.

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
22C	2198 M	2465 M	2198 M	2198 M	To be utilised during Reduced Distance Operations only. See AD 2.20 Section 6 (i). Revised Aerodrome Charts will be published within a SUP as required.

EGSS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
04	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 780 M Light intensity high	Green Light intensity high With green wingbars	PAPI /3° 66 FT 390.5 M	900 M	Bi-directional 15 M spacing Light intensity high	Flush 60 M spacing Light intensity high	Red		TDZ: TDZ lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i). CL: Centre Line lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i). EDGE: First 300 M from runway end showing red to displaced landing threshold.
22	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 900 M Light intensity high	Green Light intensity high With green wingbars	PAPI /3° 67 FT 465 M	900 M	Bi-directional 15 M spacing Light intensity high	Flush 60 M spacing Light intensity high	Red		TDZ: TDZ lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i). CL: Centre Line lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i).
04C	Truncated Simple Approach with one crossbar. 210 M Light intensity low	Green with wing bars (2 units either side of runway)	PAPI /3.5° 40 FT 212 M			Flush 60 M spacing Light intensity high	Red		TDZ: TDZ lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i). CL: Centre Line lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i).
22C	Truncated Simple Approach with one crossbar. 210 M Light intensity low	Green with wing bars (2 units either side of runway)	PAPI /3.5° 40 FT 302.5 M			Flush 60 M spacing Light intensity high	Red		TDZ: TDZ lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i). CL: Centre Line lighting not available when Reduced Distance Operations in force. See AD 2.20 Section 6 (i).

EGSS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	LDI: Adjacent to glidepath array, lit.
3	TWY edge and centre line lighting	CL: Green centre-line lighting provided, not on Echo Cul-de-Sac Middle Line or Foxtrot. EDGE: Blue edge lights on Foxtrot, Foxtrot Alpha and Western apron.
4	Secondary power supply/switch-over time	Yes. 1 second for CAT II/III/15 seconds for CAT I.
5	Remarks	Obstacle lighting. Illuminated wind direction indicators at holding point Hotel 3 and holding point Romeo 3.

EGSS AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	See AD 2.20, Section 5.

EGSS AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON STANSTED CTR 515416N 0002653E - 514508N 0001309E thence clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to 515155N 0000120E - 520104N 0001503E thence clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to 515416N 0002653E	Upper limit: 3500 FT ALT Lower limit: SFC	D	STANSTED RADAR English	6000 FT		A pilot wishing to fly within the CTR/CTA must unless otherwise notified, comply with the following procedures: 1 Call the appropriate ATC Unit on the frequency giving details of the aircraft's position, level and proposed track. 2 Obtain clearance from the appropriate ATC Unit for the flight. 3 Listen out on the appropriate frequency. 4 Obey all instructions from the appropriate ATC Unit. See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON STANSTED TMZ 1 515416N 0002653E thence anti-clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to 520104N 0001503E - 520517N 0002124E thence clockwise by the arc of a circle radius 13 NM centred on 515306N 0001406E to 515828N 0003314E - 515416N 0002653E	Upper limit: 1500 FT ALT Lower limit: SFC	G	STANSTED RADAR English	6000 FT		See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area. Procedures applicable to flights within the Transponder Mandatory Zone are detailed in AD 2.22.
LONDON STANSTED TMZ 2 514508N 0001309E - 514055N 0000652E thence clockwise by the arc of a circle radius 13 NM centred on 515306N 0001406E to 514550N 0000316W - 515146N 0000006W - 515155N 0000120E thence anti-clockwise by the arc of a circle radius 8 NM centred on 515306N 0001406E to 514508N 0001309E	Upper limit: 1500 FT ALT Lower limit: SFC	G	STANSTED RADAR English	6000 FT		See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area. Procedures applicable to flights within the Transponder Mandatory Zone are detailed in AD 2.22.
LONDON STANSTED ATZ A circle, 2.5 NM radius, centred at 515306N 0001406E on longest notified runway (04/22)	Upper limit: 2000 FT AGL Lower limit: SFC	D	STANSTED RADAR English	6000 FT		See EGSL AD 2.22, paragraph b for details of Andrewsfield Local Flying Area.

EGSS AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	STANSTED RADAR	120.625			H24	ATZ hours coincident with Approach hours.
		132.050 As directed by ATC.			H24	
TWR	STANSTED DELIVERY	121.955 Departing aircraft are to make initial call on 121.955 to 'Stansted Delivery' or 121.730 to 'Stansted Ground' as appropriate.			As directed by ATC. Operating hours of Delivery vary according to traffic demand. Exact hours will be broadcast on ATIS. Pilots to ensure they review ATIS before initial contact with ATC. When Delivery is closed pilots should request clearance from Stansted Ground.	
	STANSTED GROUND	121.730 DOC 5 NM/GND.			0600-2200 (0500-2100).	
	STANSTED TOWER	121.500 Emergency frequency O/R.			H24	
		123.805 DOC 25 NM/ 10,000 FT.			H24	
		125.550			As directed by ATC.	
RADAR	STANSTED DIRECTOR	136.200			As directed by ATC	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
ATIS	STANSTED INFORMATION	114.550 DOC 100 NM/ 50,000 FT. Broadcast on Clacton VOR.			H24	
		127.180 DOC 60 NM/ 20,000 FT.			H24	
OTHER	RYANAIR PAD CONTROL	121.555 Remote de-icing frequency			As directed by ATC	Operating hours of Pad Control vary according to operational usage of remote de-icing pads. Exact hours will be promulgated via Stansted Airport Airside Operations Ltd.
OTHER	STANSTED FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGSS AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 1.43°E (2027)	ISED	110.500 MHz	HO	515351.87N 0001514.12E		(RWY 04)
ILS/GP	ISED	329.600 MHz	HO	515247.54N 0001328.75E		3° ILS Ref Datum Hgt 53 FT.
ILS/LOC III 1.42°E (2027)	ISX	110.500 MHz	HO	515221.19N 0001258.09E		(RWY 22)
ILS/GP	ISX	329.600 MHz	HO	515338.24N 0001443.95E		3° ILS Ref Datum Hgt 49 FT. Certified for extended range to 15 NM. Not for use below 2200 FT at this range. Glidepath flags may occur when 8 left of centre-line at or below 2300 FT from 15 NM.
VOR/DME 1.72°E (2027) 1.3°E (2022)	CLN	92Y 114.550 MHz	H24	515054.50N 0010851.32E	100 FT	VOR/DME DOC: 100 NM/50,000 FT (150 NM/50,000 FT in Sector R314-044).
ILS/DME	ISX	42X 110.500 MHz	HO	515312.87N 0001406.08E	352 FT	(RWY 22) On AD. DME freq paired with ILS I-SED and I-SX. Zero range indicated at THR of Runway 04 and 22.
ILS/DME	ISED	42X 110.500 MHz	HO	515312.87N 0001406.08E	352 FT	(RWY 04) On AD. DME freq paired with ILS I-SED and I-SX. Zero range indicated at THR of Runway 04 and 22.
VOR/DME 1.41°E (2027) 1.1°E (2025)	LAM	103X 115.600 MHz	H24	513845.69N 0000906.13E	241 FT	VOR DOC: 30 NM/50,000 FT (40 NM/ 50,000 FT in Sectors R064-099, R139-174 and R249-289). DME DOC: 40 NM/50,000 FT (110 NM/50,000 FT in Sector R314-134).
VOR/DME 1.58°E (2027) 1.2°E (2023)	DET	120X 117.300 MHz	H24	511814.41N 0003550.19E	645 FT	VOR DOC: 20 NM/50,000 FT (35 NM/ 50,000 FT in Sector R289-029 and 45 NM/50,000 FT in Sector R249-289). DME DOC: 60 NM/50,000 FT.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 1.36°E (2027) 1.1°E (2022)	BKY	109Y 116.250 MHz	H24	515923.17N 0000342.87E	486 FT	VOR DOC: 20 NM/25,000 FT (30 NM/ 25,000 FT in Sector R069-099). DME DOC: 120 NM/50,000 FT.
VOR/DME 1.32°E (2027) 1.2°E (2025)	BPK	122X 117.500 MHz	H24	514459.05N 0000624.25W	392 FT	VOR DOC: 20 NM/50,000 FT (40 NM/ 50,000 FT in Sector R254-074 and 65 NM/50,000 FT in Sector R314-349). DME DOC: 40 NM/50,000 FT (80 NM/ 50,000 FT in Sector R284-359).

EGSS AD 2.20 LOCAL AERODROME REGULATIONS

1 AERODROME REGULATIONS

a) Pilots of non-commercial (General Aviation) flights arriving from abroad are required to report to Customs at the Designated Customs Clearance Office in the Business Aviation Terminal.
b) Use governed by regulations applicable to Stansted CTR.
c) All aircraft must be able to communicate by radio.
d) Pilots must be specially attentive to RTF callsigns used by ATC on the Ground Frequency. Although the RTF channel is shared by aircraft and vehicular traffic, pilots may not hear the transmissions of vehicle drivers, only the responses from ATC.
e) H24, subject to the prior approval of the Chief Executive Officer (CEO), Stansted Airport Ltd.
f) All flights operating at Stansted require a slot allocation by the airport co-ordinator, (ACL). Operators are advised to review current Stansted Directors Notices on ad-hoc slot allocations and Night restrictions which reflect the airports co-ordinated status.
g) Requests for ad-hoc slot allocations should be made to ACL during working hours Mon-Fri 0900-1700 (0800-1600) by telephone: 020-8564 0600 or outside of these times to Stansted Airside Operations, by telephone: 01279-662478. Operators are advised that the availability of ad-hoc slots during peak periods is likely to be extremely limited.
h) Fixed Based Operators are normally available 0600-2200 (0500-2100), and may be available outside of these times with prior arrangement with those handling agents listed at EGSS AD 2.4, Section 7. Customs and Immigration are routinely available 0730-2130 (0630-2030). Control Authority coverage outside of these times may be arranged through the nominated handling agent. Additional charges may apply.
i) Planned Diversion Procedure - airline and other operators are advised that before selecting Stansted as an alternate, prior arrangements for ground handling, maintenance and aircraft recovery should be in place. Nothing in this procedure shall, however, prevent an aircraft that has a declared emergency from landing.
j) Fixed Electrical Ground Power (FEGP) must be used whenever available and serviceable. Use of aircraft Auxiliary Power Units (APUs), and diesel Ground Power Units is subject to strict controls as set out in published airport regulations. Between the hours 0600-2330 (0500-2230), APUs should be shut down as soon as practicable following arrival and not restarted until 10 minutes prior to departure, except when the outside air temperature (as promulgated by ATC) is below +5°C or above +20°C. Between 2331-0559 (2231-0459), except when immediately prior to departure, APUs may not be run without notification to Stansted Airside Operations Tel: +44(0)1279-662478.
k) Aircraft engine testing is permitted subject to the restrictions detailed in the Aerodrome Manual, contact Stansted Airside Operations, Tel: +44(0)1279-662478 for further advice.

2 GROUND MOVEMENT

a) General

i. All requests for clearance, start-up and taxi should be made directly with ATC. Directions issued by ATC should be followed precisely. RTF transmissions must be brief, concise and kept to a minimum.
ii. Within the manoeuvring area pilots will be cleared to and from the stands under general direction from GMC and are reminded of the importance of maintaining a good lookout at all times.
iii. Departing aircraft, on first contact with Stansted ATC, must state aircraft type, stand number, ATIS code letter, QNH received, and then maintain a listening watch at all times.
iv. Clearance is available for departing aircraft approximately 22 minutes before departure on the Delivery frequency (when open-status broadcast on ATIS), otherwise Ground, and must be obtained at least 10 minutes before start up to allow data to be processed - failure to do may incur delays.
v. Pre-departure clearance by datalink is available at Stansted for suitably equipped aircraft. Pilots are to ensure stand information entered is in line with aircraft parking/docking map and to include apron location e.g A1L, B30, E84R. For further information contact ATC Operations, Tel: +44 (0)1279-669389.
vi. Stansted Airport is equipped with an advanced surface movement radar utilising Mode-S.

1. Aircraft operators intending to use London Stansted Airport should ensure that Mode-S transponders are able to operate when the aircraft is on the ground.
2. Flight crew should select XPNDR or the equivalent according to specific installation, AUTO if available, not OFF or STDBY, and the assigned Mode-A code:

(aa) From the request for push back or taxi, whichever is earlier.
(bb) After landing, continuously until the aircraft is fully parked on stand.

3. After parking the Mode-A code 2000 must be set before selecting OFF or STDBY.
4. Flight crew of aircraft equipped with Mode-S having an aircraft identification feature should also set the aircraft identification. This setting is the aircraft identification specified in Item 7 of the ICAO ATC Flight Plan. The aircraft identification should be entered from the request for pushback or taxi, whichever is earlier, through the FMS or the Transponder Control Panel.

b) Aprons

i. Pilots should only request push back (with tug attached) when they are actually ready to do so.
ii. Within the Alpha, Bravo, Charlie, Echo and Zulu cul-de-sacs aircraft should take care to use the taxilane as directed by the GMC controller (ie: East, West or middle). Pilots are responsible for ensuring they do not accept a clearance to use a taxilane centre-line which is not approved for their aircraft type.
iii. Caution, Western Apron is uncontrolled.

c) De-icing Pad Operations

i. Remote de-icing operations will occur when snow is falling and accumulating and shall be promulgated by Stansted Airport Ltd Airside Operations.
ii. Remote de-icing is only available to operators who have a pre-agreement with Stansted Airport Ltd.
iii. Remote de-icing – Operation

1. Flight crew shall notify ATC that remote de-icing will be required prior to aircraft pushback via datalink where available.
2. Flight crew shall simultaneously contact their respective handling agent to request remote de-icing.
3. Flight crew shall request push and start as per normal. ATC shall direct the aircraft to the de-icing pad.
4. Upon entering the pad, flight crew shall park the aircraft in line with the respective Painted Stop Arrow and Omni-directional Red Lights.
5. Once parked the flight crew shall contact the pad controller via the appropriate frequency, and confirm that the parking brake is set, engines are at idle power and the de-icing required.
6. The pad controller shall confirm the de-icing requirements, and shall authorise the de-icing vehicles to approach the aircraft and begin de-icing operations. The pad controller shall park their vehicle in front of the aircraft, in line-of-sight of the flight crew to manage de-icing operations.
7. On completion of de-icing operations, the pad controller shall confirm that all de-icing operations have been completed, that vehicles have vacated the manoeuvring area, advise the anti-icing code, the litreage used and areas treated. Once this has been acknowledged by the flight crew the pad controller shall vacate the manoeuvring area. Flight crew shall contact ATC for further taxi.

iv. Remote de-icing – Emergency Procedures

1. Should an aircraft emergency develop during de-icing pad operations, flight crews are to select all nose landing lighting and contact ATC. Upon seeing the illuminated lights, all de-icing vehicles shall vacate manoeuvring area.

d) **It is the Commander's responsibility not to accept an ATC clearance into an area not approved for the type of aircraft.**
e) Pilots are reminded that RTF contact must be maintained with ATC whilst engaged in compass swings on the Compass Base or engine runs in the Ground Run Pen.
f) Runway 04 during CAT II/III operations, aircraft on Golf taxiway with wingspan greater than 36 M may be required to cross the runway at Victor for departure.
g) Aircraft are not to stop on any runway exit awaiting instructions from Ground Movement Control. If a landing aircraft cannot contact GMC due to RTF congestion the pilot should fully vacate the runway and taxi into the first available taxiway block. The pilot should then hold position until contact with GMC can be established.
h) Taxiway Hotel, Link D, has a maximum wingspan of 51.9 M.
i) Taxiway Hotel between abeam Link Delta and Link Echo, including Link Echo has a maximum wingspan of 36 M.
j) Airport-Collaborative Decision Making (A-CDM) - Definitions of Commonly Used A-CDM Terms:

1. Calculated Take-Off Time (CTOT);
2. Target Off-Blocks Time (TOBT);
3. Target Start Approval Time (TSAT);
4. Target Take-Off Time (TTOT);
5. Estimated Off-Block Time (Flight Plan EOBT);
6. Minimum Departure Interval (MDI);
7. Advanced Visual Docking Guidance System, Ramp Information Display Screen (AVDGS RIDS).

TOBT/TSAT

1. Pilots must be aware of the TOBT and TSAT and comply with it. It is visible on AVDGS RIDS where provided, in the Airport Community App and from the Ground Handling Agent.
2. If TOBT or TSAT can no longer be complied with then TOBT must be updated by the Aircraft Operator via the dispatcher/Ground Handling Agent Ops.
3. Pilots must report that the flight is READY to depart at TOBT (tolerance window of -5 to +5 minutes). Failure to do so may see TOBT & TSAT deleted.
4. Reporting READY when not ready will see the READY status rescinded and TOBT & TSAT may get automatically deleted.
5. Pilots planning to be READY more than 5 minutes before TOBT must update the TOBT to an earlier time first (up to 10 minutes before EOBT or SCHEDULED time).

6. If at TOBT + 6 minutes ATC have not received a valid READY or start up request the aircraft may lose its position in the departure sequence and a new TOBT may be required.
7. ATC cannot update TOBT or TSAT values.
8. A TSAT can never be improved to earlier than the TOBT.

EOBT Compliance

1. It is essential that the Flight Plan EOBT and TOBT are kept aligned. A-CDM alarm CDM08 is triggered to the handling agent if they are more than 10 minutes difference. Failure to align may see unachievable CTOTs for which a further delay may occur if the values need to be updated late. An out-of-date EOBT may also receive a Flight Plan suspension from Eurocontrol if there is a taxi delay.
2. ATC cannot easily update (delay) a Flight plan EOBT - it is the airline's responsibility.
3. A request can be made to the airport for an airline operator's TOBTs to automatically trigger EOBT updates with Eurocontrol.

Start Request – Stansted ATC (Delivery, Ground or Tower as appropriate)

1. If already within the TSAT window when calling READY, ATC will then approve start. In the case of a TSAT delay beyond TOBT, ATC will advise of the TSAT. A TSAT can commonly be later than TOBT due to a CTOT but can also be delayed due to runway capacity or MDI restrictions.
2. Pilots are to monitor the ATC frequency from this point and must continue to be READY as the TSAT can potentially improve to as early as the TOBT.
3. Start approval will be issued based on TSAT compliance and the prevailing traffic situation.
4. Pilots will be informed of an ATC delay to TSAT of more than 5 minutes. In such cases, the TOBT must not be updated further once READY has been acknowledged by ATC.
5. If a new TOBT is entered the flight will be re-sequenced (new TSAT issued automatically).
6. The aircraft will not be allowed to start until a valid TOBT has been entered and revised TSAT assigned, with the window of -5 to +5 minutes applicable to both.

Remote Holding Request

1. Stansted Airport has remote holding areas available. If an eligible Aircraft Operator is aware of a significant CTOT delay (20 mins+) and wishes to take the delay off stand rather than on the stand, then they should contact ATC for approval and advise their Ground Handling Agent so that the pushback tug remains available.
2. In this instance, once approved by ATC and recorded as a Remote Hold request which will be indicated on the AVDGS RIDS screen if it’s active, the pushback will be allowed at TOBT and the TSAT will be adjusted to account for expected departure from the remote hold location.
3. Airlines and ATC must remain open to an airport or Handling Agent request to seek pushback at TOBT for a delayed flight should there be operational demand for the stand or turnaround resources, though it remains at the discretion of ATC.

Aircraft De-icing Requirements

1. Stansted airport publishes an aircraft de-icing protocol as detailed within the Aerodrome manual. All Aircraft operators should ensure that they have read and understood this document. A copy can be downloaded from www.stanstedairport.com/airfield-operations/aerodrome-manual/.
2. To request de-icing, pilots should follow their company’s standard procedure which must include liaison with their ground handler who will additionally enter the requirement for de-cing into A-CDM. It is important to note that pre-boarding de-icing is not relevant to A-CDM and so does not need to be captured. Post-boarding aircraft de-icing time is not included in the TOBT calculation. i.e. this de-icing takes place after TOBT.
3. If the aircraft is to be de-iced remotely, details for this are held within the London Stansted Airport Winter Operations Plan. A copy can be obtained from your Ground Handling Agent.
4. Where de-icing is indicated, A-CDM expects that at TOBT when doors are closed, staff are ready to commence de-icing on stand. Pilots must update their Handling Agent if there is a delay to this as the issued TSAT is relative to the expected start and end of de-icing time. A call must also be made to the Ground Handler to update if the de-icing is taking longer or less time than expected as the start-up at TSAT +/- 5 minutes compliance is still required.
5. Once de-icing on the stand is complete, and assuming TSAT compliance, pilots should call Stansted ATC stating, 'de-icing complete, ready to push and start'.
6. Pilots who have been allocated a remote de-icing area should contact Stansted ATC at TOBT, stating 'ready to push and start for remote de-icing'. The TSAT becomes the expected time to exit the remote de-icing location.
7. There is a process for Handling Agents to follow to re-set the TOBT if de-icing has been completed and TSAT was not complied with i.e. TOBT and TSAT were subsequently deleted at TSAT+6. This should be avoided by updating the anticipated de-icing start and end times through the Handling Agent.

3 CAT II/III OPERATIONS

a) Runways 04 and 22, subject to serviceability of the required facilities, are suitable for Category II/III operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II/III operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed when these procedures are in operation by ATIS broadcast or by RTF.
c) Departing aircraft: ATC will require departing aircraft to use the following Category II/III holding points:
Runway 04 – Golf 3, Whisky 3, Hotel 3, Kilo 3 or Lima 3;
Runway 22 – Quebec 3, Romeo 3 or Sierra 3.
Occasionally, it may be necessary for other departure points to be used at the discretion of ATC.

d) Arriving aircraft: All appropriate runway exits are illuminated, and pilots should select the first convenient exit. Runway vacation will be assessed as being when the aircraft has passed the last of the alternate yellow and green centre-line lights. These lights denote the extent of the ILS Localizer sensitive area. Surface Movement Radar (SMR) is available to monitor pilot 'runway vacated' reports.
e) When Low Visibility Procedures are in force a much reduced landing rate can be expected due to the requirement for increased spacing between arriving aircraft. In addition to the prevailing weather conditions, such factors as equipment serviceability may also have an impact on actual landing rates. For information and planning purposes, the approximate landing rates that can be expected are:

IRVR (M)	Expected Landing Rate
Greater than 1000	24
Between 1000 and 600	20
Between 550 and 350	15
Less than 300	12 or less

f) Runways 04 and 22 are suitable for Lower than Standard Category I operations subject to the ILS radiating at CAT III and LVPs being declared in force by ATC, by Operators whose minima have been accepted by the Civil Aviation Authority. Crews wishing to conduct this approach should inform Stansted Radar on first contact.
g) Runway 04 during CAT II/III operations, aircraft on Golf taxiway with wingspan greater than 36 M may be required to cross the runway at Victor for departure.

4 WARNINGS

a) Extensive instrument flying takes place in vicinity of airport.
b) Trees in 22 Approach/04 Take-off relate to highest in large wooded area.
c) Due to runway undulation and line of site issues on Runway 04, aircraft may lose two way communication with ATC. Should this occur when on the runway, pilots should consider aligning with Kilo 1 on the runway.

5 HELICOPTER OPERATIONS

a) All inbound and outbound helicopters must use the runways. Helicopter handling agents are to obtain slot allocation for all flights. Helicopters may not carry out direct approaches to or take-off from apron areas or taxiways. After landing, helicopters will ground taxi or air taxi to an allocated parking area. While helicopters are operating on the manoeuvring area extreme caution must be exercised regarding wingtip clearance and turbulence.
b) Departures from the runway unless otherwise directed by ATC are required to follow the routes below in accordance with chart in AD 2.EGSS-4-3 Helicopter VFR arrival/departure routes:

i. North - Audley End Railway Station VRP via M11 Motorway;
ii. East & South - Canfield A120/B1256 INTERCHANGE VRP;
iii. West - Puckeridge A10/A120 INTERCHANGE VRP via Hazelend Wood VRP and the north side of A120 trunk road, avoiding Bishop's Stortford;
iv. BKY - Nuthampsted AD VRP via Hazelend Wood VRP.

c) Approach to the runway from the west via Hazelend Wood VRP, or the north from Audley End Railway Station VRP shall remain north of Bury Lodge Hotel and remain clear of Burton End.
d) Helicopters landing from or departing to the west are to avoid overflight of Birchanger, Stansted Mountfitchet and Bishop's Stortford.
e) Pilots of inbound helicopters should contact the Terminal Control Group Supervisor (North) on 023-8048 1103 before departure to obtain an indication of likely delays and if necessary to obtain an EAT. Pilots of all inbound helicopters should note they may be required to hold outside CAS until they can be integrated into the traffic sequence and that in the event of a high controller workload such holding may have to be carried out without radar service.

6 USE OF RUNWAYS

a) Special runway utilisation procedures are detailed at GEN 3.3.3.
b) When Runway 04 is in use a right hand circuit is in force.
c) Wake Turbulence – Departures

i. The following sets of holding points are considered to be the same point for the purposes of departure wake turbulence separation:

Runway 04 - H1/H3 and G1/G3

Runway 22 - S1/S3 and R1/R3

ii. On departure, when in receipt of a line up clearance, the pilot must inform ATC before entering the runway, if greater wake turbulence separation will be required behind preceding aircraft than that laid down in UK AIC P 001/2015. Failure to do so may result in additional delay.

d) Wake Turbulence – Arrivals

For the purposes of spacing in the approach phase the following aircraft types are classified as Upper Medium for Wake Turbulence separation: B707, B757, DC-8 and IL62. All other 'Medium' aircraft types are classified as Lower Medium. Wake turbulence separations are in accordance with the 5 Group Scheme and are detailed in UK AIC P 001/2015.

e) Minimum Runway Occupancy – Departures

i. On receipt of line up clearance, pilots should ensure commensurate with safety and standard operating procedures, that they are able to taxi into the correct position at the hold and line up on the runway as soon as the preceding aircraft has commenced either its take off roll or landing run.
ii. Whenever possible cockpit checks should be completed prior to line up and any checks requiring completion whilst on the runway should be kept to the minimum required. Pilots should ensure that they are able to commence the take off roll as soon as clearance is issued
iii. Pilots not able to comply with these requirements should notify ATC as soon as possible once transferred to the Stansted Tower frequency.
iv. Pilots of aircraft with wingspan greater than 36 M should not proceed beyond the Cat III holding points G3 and W3 unless instructed to do so by ATC. This may result in fluctuations in the glidepath signal and, subject to weather conditions, inbound traffic established on the ILS may be asked to make a visual approach or localiser only approach whilst the restricted area is infringed.
v. Pilots should never cross Holding Point Red Stop bars.

f) Minimum Runway Occupancy – Arrivals

Runway 04	Taxiway PR	Taxiway QR	Taxiway Q
Distance from threshold (M)	1566	1844	2240
Design exit speed (KT)	52	52	N/A

Runway 22	Taxiway NR	Taxiway LR	Taxiway L
Distance from threshold (M)	1276	1891	2336
Design exit speed (KT)	52	52	N/A

i. Pilots are reminded that rapid exit from the runway will enable ATC to apply minimum spacing on final approach and will minimise the risk of ‘go-arounds’.
ii. Commensurate with safety, pilots should expedite their landing roll to vacate via the first available RET at the design exit speed.
iii. Where possible, pilots should exit at PR during Runway 04 operations. Tactical extension to the landing roll of any distance is prohibited unless authorised by ATC.
iv. Aircraft expecting to park on the north side of the airfield may be required to vacate via a RET to the south side during high intensity operations. ATC will advise the pilot accordingly on final approach.
v. Alternative vacating preferences may only be given at the discretion of ATC.

g) Runway Vacation Guidelines

i. Due to high intensity Runway Operations at Stansted it is necessary to ensure pilots adhere to the following guidelines:

Aircraft are not to stop on any runway exit awaiting instructions from Ground Movement Control. If a landing aircraft cannot contact GMC due to RTF congestion the pilot should fully vacate the runway and runway exit, and then hold position until contact with GMC can be established. Pilots should not anticipate a particular taxiway on vacating as there are no standard routeings at Stansted. On Runway 22, pilots should not assume Taxiway Juliet will be available.

ii. Taxiway November is not available as an entry/exit point from the runway for landing or departing fixed wing aircraft.

h) Runway Crossing Procedure

i. Aircraft and vehicles which are required to cross active runways will be issued instructions by the Ground Movement Controller, which will include a holding point as a clearance limit, at which the aircraft or vehicle will be required to hold short of the active runway.
ii. When reaching the clearance limit specified in the taxiing instructions, the aircraft or vehicle will be instructed to change frequency to that of the Air Controller of the appropriate runway.
iii. After crossing the runway and having reported ‘Runway Vacated’ with the Air Controller, the aircraft or vehicle will be instructed to contact the GMC frequency for further clearance. In the absence of further clearance it is essential that the aircraft or vehicle HOLD position when clear of the runway.

i) Reduced Distance Operations

i. To allow runway maintenance to take place, Runway 04/22 may be operated in a reduced distance configuration. There are two configurations both of which affect the runway declared distances, ground lighting, navigational aids and instrument flight procedures available. There will also be block closures on the taxiway system to safeguard the closed section of runway and facilitate contractor access. At the beginning and prior to the end of each night’s working period the runway will be closed for approximately 15 minutes to enable the lighting changes to be undertaken. Time periods when these procedures are in use will be notified by SUP & NOTAM.

ii. During these periods, reduced Aeronautical Ground Lighting services are provided as outlined in the table in AD 2.14. The lighting configuration will comply with the criteria laid down for non-precision approaches and take-offs where Instrumented Runway Visual Range (IRVR) is in excess of 400 M. DME will radiate throughout the working period. DME will continue to provide distance guidance for all departures and RNP Z and Y Instrument Approach Procedures (IAP) missed approaches. The RNP Z IAPs will provide distance information to the normal thresholds, while the RNP Y IAPs will provide distance information to the maintenance thresholds. DME is only used for the RNP Z and Y IAP missed approaches.

Revised Aerodrome Charts will be published within a SUP as required.

iii. Threshold Naming and IAPs available

The maintenance runway thresholds are designated with a 'C' suffix to distinguish them from the normal thresholds:

1. THR 04 (RW04) is the normal threshold for Runway 04 and RNP Z RWY 04 IAP.
2. THR 04C (RW04C) is the maintenance threshold for Runway 04C and RNP Y RWY 04C IAP.
3. THR 22 (RW22) is the normal threshold for Runway 22 and RNP Z RWY 22 IAP.
4. THR 22C (RW22C) is the maintenance threshold for Runway 22C and RNP Y RWY 22C IAP.

Note: RW04, RW22, RW04C, RW22C are MAPt WPTs in RNP Z and Y IAPs respectively.

iv. Use of Runways 04C & 22C

1. Runways 04C & 22C have maintenance thresholds with reduced distances available and will only be used by reason of planned pre-notified runway maintenance.
2. Instrument Approach Procedures RNP Y RWY 04C and RNP Y RWY 22C to the maintenance thresholds RW04C and RW22C will be conducted at 3.5°.
3. ILS CAT I/II/III operations not available during maintenance threshold/Reduced Distance Operations.

v. When Runway 04C in use:

1. A maintenance threshold (RW04C) will be introduced for Runway 04C. Throughout any working period, the section of runway between the THR 22 and the edge of the works area (abeam LR) will remain operational for aircraft.
2. The following Holding Points and Rapid Exit Taxiways will be closed during the working period:
Golf 1, Hotel 1 and 3, Kilo 1 and 3, Lima 1 and 3 and Lima Romeo.
3. Holding point November 1 and 3 will remain available for use. However, in the absence of a painted or lit lead on/off curve, temporary blue edge lights will be positioned to highlight the pavement edge and all aircraft movements via this holding point will be escorted onto and off the runway under the guidance of a Leader vehicle. Taxiway Hotel from Hotel 1 and 3 to, but not including Taxiway Lima, will be closed during the working period to safeguard the works area and provide access for contractors to it.

vi. When Runway 22C in use:

1. A maintenance threshold (RW22C) will be introduced for Runway 22C. Throughout the working period, the section of runway between the THR 04 and the edge of the works area (abeam PR) will remain operational for aircraft.
2. The following Holding Points and Rapid Exit Taxiways will be closed during the working period:
Papa 3, Quebec Romeo, Quebec 1 and 3, Romeo 1 and 3 and Sierra 1 and 3.

vii. During any period when Reduced Distance Operations are in force:

1. ILS will not be available.
2. DME will radiate throughout the working period. It will continue to provide guidance for all departures and RNP Z and Y IAP missed approaches.
3. RNP Y IAPs PAPIs are set to 3.5° and will only serve the maintenance thresholds RW04C/RW22C.
4. RNP Z IAPs PAPIs are set to 3° and will only serve the normal thresholds RW04/RW22.
5. Aircraft must be able to turn within the 46 M width of the runway as it may be necessary to back-track. If required to back-track for departures, pilots should commence the turn at the latest abeam the red stop end wing bars. These are coincident with the start of the declared Runway take off distance. This procedure will ensure persons and equipment within the works area are not exposed to excessive jet blast.
6. Pilots should note that there will be vehicles with rotating/flashing amber obstruction lights inside the works site.
7. All runway lighting outside the area available for landing/take-off will be extinguished.

viii. Charts and coding table data relating to RNP Z and RNP Y IAPs are contained within AD 2.24:

8-3 RNP Z RWY 04 Chart
8-7 RNP Z RWY 22 Chart
8-4 RNP Y RWY 04C Chart
8-8 RNP Y RWY 22C Chart
8-9 RNP Z RWY 04 and RNP Y RWY 04C Coding Tables
8-10 RNP Z RWY 22 and RNP Y RWY 22C Coding Tables

ix. Notification of Runway in Use
The configuration of reduced distance in use at any time will be notified by NOTAM.

7 TRAINING

a) The use of this aerodrome for training is prohibited. The deliberate simulation of engine failure is not permitted whilst on approach to or departure from the aerodrome. It is not permitted to fly an approach to the aerodrome with the intention to execute a missed approach from training purposes.

EGSS AD 2.21 NOISE ABATEMENT PROCEDURES

Notice under Section 78(1) of the Civil Aviation Act 1982

Whereas:

(1) The Civil Aviation (Designation of Aerodromes) Order 1981 (a) provides that Stansted Airport – London is a designated aerodrome for the purpose of Section 78 of the Civil Aviation Act 1982 (b);

(2) The requirements specified in this notice appear to the Secretary of State to be appropriate for the purpose of limiting, or of mitigating the effect of, noise and vibration connected with the taking off or, as the case may be, landing of aircraft at Stansted Airport – London

Now, therefore, the Secretary of State, in exercise of the powers conferred by Section 78 (1) and (12) of the Civil Aviation Act 1982, by this notice published in the manner prescribed by the Civil Aviation (Notices) Regulations 1978 (c), provides as follows:

1. This notice may be cited as the Stansted Airport – London (Noise Abatement Requirements) Notice 2022 and shall come into force on 01 April 2022.
2. The Stansted Airport – London (Noise Abatement Requirements) Notice 2007 (d) is revoked.

3. It shall be the duty of every person who is the operator of any aircraft which is to take off or land at Stansted Airport – London to secure that, after the aircraft takes off or, as the case may be, before it lands at the aerodrome the following requirements are complied with:

    1. After take-off the aircraft shall be operated in such a way that it is at a height of not less than 1000 FT AAL at 6.5 KM from start of roll as measured along the departure track of that aircraft.

    2. Subject to sub-paragraphs (4) and (5), any aircraft shall, after take-off, be operated in such a way that it will not cause more than 89 dBA Lmax by day 0700-2300 (0600-2200) as measured at any noise monitoring terminal at any of the sites in the table below. Any exceedance of the daytime noise limit will incur a charge as detailed in the Airport Fees and Charges document.

Site	OS Co-ordinates	Elevation above aerodrome	Latitude	Longitude
Site 11: Chickney Hall Villas, Broxted	TL 5743 2767	-15 M	*515531N	0001718E
Site 10: Goodacres, Broxted	TL 5760 2696	9 M	*515508N	0001725E
Site 8: Anglian Water, Broxted	TL 5775 2651	-16 M	*515453N	0001732E
Site 9: Moor End Farm, Broxted	TL 5822 2600	-16 M	*515436N	0001756E
Site 3: Howe Green School, Great Hallingbury	TL 5106 1874	-21 M	*515048N	0001130E
Site 4: Thames Water, Bishop's Stortford	TL 5012 1963	-36 M	*515118N	0001042E
Site 5: Woolcott Restaurant, Great Hallingbury	TL 5033 1892	-26 M	*515055N	0001052E
Site 6: Morley, Woodside Green	TL 5153 1860	-26 M	*515043N	0001154E

    3. Subject to sub-paragraphs (4) and (5), any aircraft shall, after take-off, be operated in such a way that it will not cause more than 84 dBA Lmax by night between 2300-0700 (2200-0600) as measured at any noise monitoring terminal at any of the sites in sub-paragraph (2). Any exceedance of the nighttime noise limit will incur a charge as detailed in the Airport Fees and Charges document.

    4. The limits specified in sub-paragraphs (2) and (3) shall be adjusted in accordance with the following table in respect of any noise monitoring terminal at any of the sites referred to in the table in sub-paragraph (2) to take account of the location of that terminal and its ground elevation relative to the aerodrome elevation.

Site	Adjustment dBA
Site 11: Chickney Hall Villas, Broxted	minus 1.3
Site 10: Goodacres, Broxted	plus 0.2
Site 8: Anglian Water, Broxted	minus 0.6
Site 9: Moor End Farm, Broxted	minus 0.8
Site 3: Howe Green School, Great Hallingbury	minus 1.0
Site 4: Thames Water, Bishop's Stortford	minus 1.4
Site 5: Woolcott Restaurant, Great Hallingbury	minus 1.4
Site 6: Morley, Woodside Green	minus 1.1

    5. For the purpose of determining an infringement of the limits specified in sub-paragraphs (2) and (3), if the aircraft was required to take-off with a tailwind, an amount of up to 2dB of the noise recorded at the noise monitor should be disregarded. The amount to be disregarded shall be:

        - 0.4 dB for a tailwind of up to 1 KT
        - 0.8 dB for a tailwind exceeding 1 KT but not exceeding 2 KT

- 1.2 dB for a tailwind exceeding 2 KT but not exceeding 3 KT
- 1.6 dB for a tailwind exceeding 3 KT but not exceeding 4 KT
- 2.0 dB for a tailwind exceeding 4 KT.

For this purpose, tailwind is to be calculated from the wind data measured in the on-airfield anemometers and wind vanes according to the formula:

(windspeed x cosine (runway heading minus wind direction)) x – 1.

6. Where the aircraft is a jet aircraft, after passing the point referred to in sub-paragraph (1), it shall:

   a) Between 0600-2330 (0500-2230) maintain a gradient of climb of not less than 4% to an altitude of not less than 4000 FT, unless it has been cleared via Barkway, in which case it shall maintain a gradient of climb of not less than 4% to an altitude of not less than 3000 FT.
   b) Between 2330-0600 (2230-0500) maintain a gradient of climb of not less than 4% to an altitude of not less than 4000 FT.

   The aircraft shall be operated in such a way that progressively reducing noise levels at points on the ground under the flight path beyond that point are achieved.

7. This paragraph applies to aircraft other than any propeller driven aircraft whose MTWA does not exceed 5700 KG:

   a) With the exception of those aircraft mentioned in sub-paragraph (b), any aircraft which takes off from any runway specified in the first column of the following table, the aircraft shall follow the Noise Preferential Routeing Procedure specified in the third column of the table which relates to the ATC clearance previously given to the aircraft and specified in the second column of the table, whether flying in IMC or VMC. Aircraft persistently flying outside of the Noise Preferential Route maybe subject to a charge as detailed in the Airport Fees and Charges document.
   b) Where any aircraft has taken off on a VFR flight plan, it shall follow the applicable Noise Preferential Routeing Procedure before turning onto the intended track.

Take-off Runway	ATC Clearance	Procedure
04	Via Barkway	Straight ahead to I SED DME 2 (BKY VOR RDL 116) then turn left onto BKY VOR RDL 099 by BKY DME 7 to BKY VOR.
	Via Clacton	Straight ahead to I SED DME 1 (BKY VOR RDL 122) then turn right onto BKY VOR RDL 114 to intercept CLN VOR RDL 265 to CLN VOR.
	Via Lambourne	Straight ahead to I SED DME 0.8 (BKY VOR RDL 123) then turn right onto LAM VOR RDL 024 to LAM DME 9.
	Aircraft taking off from Runway 04 and positioning for Heathrow (LAM 3S SID).	Straight ahead to I SED DME 0.8 (BKY VOR RDL 123) then turn right onto LAM VOR RDL 024 to LAM VOR. Cross LAM DME 9 at 3000 FT or above; LAM VOR at 5000 FT.

Take-off Runway	ATC Clearance	Procedure
22	Via Barkway	Straight ahead to I SX DME 3.1 (BKY VOR RDL 156) then turn right onto BKY VOR RDL 169 by BKY DME 8.
	Via Clacton	Straight ahead to I SX DME 1.2 (BKY VOR RDL 144) then turn left to intercept CLN VOR RDL 265 by CLN DME 33 (XIGAR) to CLN VOR. ***Note:*** *(Aircraft operating at speeds below 195 KT should turn no further east than 140° MAG to intercept CLN VOR R265).*
	Via Detling	Straight ahead to I SX DME 1.2 (BKY VOR RDL 144) then turn left onto DET VOR RDL 333 (BKY VOR RDL 153) to DET VOR.
	Aircraft taking off from 22 and positioning for Heathrow (LAM 4R SID)	Straight ahead to I SX DME 1.2 (BKY VOR RDL 144) then turn left onto BKY VOR RDL 153 to ROWAN (BKY DME 16). At ROWAN turn right onto LAM VOR RDL 033 to LAM VOR. Cross ROWAN at 3000 FT or above; LAM VOR.

8. RNP1 SIDs are available only to aircraft which are GNSS equipped and approved in accordance with the requirements of JAA TGL-10 or equivalent and where the operator has been approved by their State of Registry for RNP1 operations. If the above criteria is met, an aircraft commander may request to depart on the CLN2E SID when on Runway 22, instead of the CLN9R, and may request the DET2D SID when on Runway 04, instead of the DET2S.

9. Where the aircraft is departing the aerodrome it shall, commensurate with its ATC clearance, minimise noise disturbance by the use of continuous climb where practicable.

10. Aircraft shall maintain as high an altitude as practicable, shall avoid flying over Bishop's Stortford and shall avoid flying over Sawbridgeworth and Stansted Mountfitchet at an altitude of less than 2500 FT and shall avoid flying over St Elizabeth's Home (*514949N 0000523E) at an altitude of less than 4000 FT (Stansted QNH).

11. Where the aircraft is approaching the aerodrome to land on Runway 22 it shall, commensurate with its ATC clearance, minimise noise disturbance by the use of continuous descent and low power, low drag operating procedures (referred to in Detailed Procedures for descent clearance in AD 2.22). Where the use of these procedures is not practicable, the aircraft shall maintain as high an altitude as possible. In addition, when descending on initial approach, including the closing heading, and on intermediate and final approach, thrust reductions should be achieved where possible by

maintaining a 'clean' aircraft configuration and by landing with reduced flap, provided that in all the circumstances of the flight this is consistent with safe operation of the aircraft.

12. All aircraft approaching Runway 22 or Runway 04 shall:

    a) If using the ILS in IMC or VMC not descend below 2000 FT (Stansted QNH) before intercepting the glidepath nor thereafter fly below the glidepath;
    b) If flying without assistance from the ILS shall not join the final approach to either runway at a height of less than 1500 FT AAL (unless they are propeller-driven aircraft whose MTWA does not exceed 5700 KG when the minimum height shall be 1000 FT AAL) and thereafter shall follow a descent path which will not result in its being at any time lower than the height of the approach path normally indicated by the PAPI.

13. All aircraft which are to land at Stansted Airport – London between 2330-0600 (2230-0500) shall not descend below 3000 FT (Stansted QNH) until:

    a) In the case of aircraft other than a relevant propeller driven aircraft, it is established on final approach and is less than 10 NM from touchdown.
    b) If a relevant propeller driven aircraft, it is established on final approach and thereafter must fly below the approach path indicated by the PAPI.

14. Where the aircraft is flying on visual circuits of the aerodrome for missed approach purposes, it shall:

    a) Not descend below 2000 FT (Stansted QNH) on the downwind leg;
    b) Avoid flying over Great Dunmow or Takeley;
    c) As far as possible commence its final approach to the aerodrome after visual circuit at a distance of 3 NM from the landing threshold and at a height of 1000 FT AAL so as to avoid flying over Thaxted if making its final approach to Runway 22, and to avoid flying over Sawbridgeworth if making its final approach to Runway 04.

15. Without prejudice to the provisions of sub-paragraphs (1)-(14), the aircraft shall at all times be operated in a manner which is calculated to cause the least disturbance practicable in areas surrounding the aerodrome.

16. The requirements set out in sub-paragraphs (1)-(15) may at any time be departed from to the extent necessary for avoiding immediate danger or for complying with the instructions of an Air Traffic Control unit.

4. In this notice, except where the context otherwise requires:

'local time' means, during any period of summer time, the time fixed by or under the Summer Time Act 1972 (e), and outside that period, Universal Co-ordinated Time;

'dBA' means a decibel unit of sound level measured on the A-weighted scale, which incorporates a frequency dependent weighting approximating the characteristics of human hearing;

Lmax' means the highest instantaneous sound level recorded (with the noise monitoring terminal set at the slow meter setting);

'relevant propeller driven aircraft' means a propeller driven aircraft whose MTWA does not exceed 25000 KG and which has ATC clearance to make a visual approach for the purpose of landing at Stansted Airport – London;

other abbreviations used are defined in GEN 2.2 of the United Kingdom Aeronautical Information Publication (Air Pilot).

Ian Elston
Deputy Director
Airspace, Noise & Resilience Division
Department for Transport

01 February 2022

a) S.I. 1981/651.
b) 1982 c.16.
c) S.I. 1978/1303.
d) The Stansted Airport - London (Noise Abatement Requirements) Notice 2007 signed by M Capstick on 16 October 2007.
e) 1972 c.6 as amended by S.I 2002/262.

Notes

(These notes are not part of the notice)

1. The Noise Preferential Routeing Procedures specified in the notice are compatible with normal ATC requirements. The use of the routeings specified is supplementary to noise abatement take-off techniques as used by piston-engined, turbo-prop, turbo-jet and turbofan aircraft.

2. The attention of operators is drawn to the provisions of Section 78 (2) of the Civil Aviation Act 1982, under which if it appears to the Secretary of State that any of the requirements in this notice have not been complied with as respects any aircraft, he may direct the manager of the aerodrome to withhold facilities for using the aerodrome from the operator of the aircraft. However, the Secretary of State accepts that occasional and exceptional breaches of the noise limits, or of the height requirement, would not be expected to lead to sanctions under Section 78 (2) of that Act. Such breaches would, however, run the risk of financial penalties under Section 78 (A).

3. Noise from ground running of aircraft engines is controlled in accordance with instructions issued by Stansted Airport Limited.

4. To minimise disturbance in areas adjacent to the aerodrome, commanders of aircraft are requested to avoid the use of reverse thrust after landing, consistent with the safe operation of the aircraft, between 2330-0600 (2230-0500).

5. Full details concerning the maximum number of occasions and the types of aircraft which are permitted to take off or land at night during specified periods at this aerodrome are promulgated by Supplement to the United Kingdom Aeronautical Information Publication.

6. For monitoring purposes, a descent will be deemed to have been continuous provided that no segment of level flight longer than 2.5 NM occurs below 6000 FT QNH and 'level flight' is interpreted as any segment of flight having a height change of not more than 50 FT over a track distance of 2 NM or more, as recorded in the airport Noise and track-keeping system.

7. For monitoring purposes, a departure will be deemed to have complied with the Noise Preferential Routeing (NPR) if, in the portion of flight below the appropriate vectoring altitude (see notes 8 and 9 below), it is properly recorded by the airport's noise and track-keeping (NTK) system as having flown wholly within the Lateral Swathe (LS). The LS is defined from the centre-line of the relevant route coded in the NTK system, based upon a map accredited for this purpose by the Department for Transport, by the closer to the route centre-line depicted on the map of (a) a pair of lines either side, each diverging at an angle of 10° from a point on the runway centre-line 2000 M from start-of-roll; and (b) a pair of parallel lines representing a distance of 1.5 KM either side of the route centre-line. For avoidance of doubt, the depicted route and LS may include curved sections representing turns.

8. Aircraft which have attained an altitude of 4000 FT (Stansted QNH) may be directed by air traffic controllers onto a different heading and commanders complying with any such direction will not by reason of so complying be deemed to have departed from the Noise Preferential Routeing. This applies:

a) Between 2330-0600 (2230-0500) to all take-offs, and;
b) Between 0600-2330 (0500-2230) to all take-offs other than those cleared via Barkway.

9. Between 0600-2330 (0500-2230) aircraft which have taken off cleared via Barkway and which have attained an altitude of 3000 FT (Stansted QNH) may be directed by air traffic controllers onto a different heading and commanders complying with any such direction will not by reason of so complying be deemed to have departed from the Noise Preferential Routeing.

EGSS AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT UNDER IFR

a) Inbound via the ATS Route Network

i. The Standard Arrival Routes (STAR) for aircraft inbound to London Stansted are shown at AD 2-EGSS-7-STAR Charts.
ii. The Terminal Holding facilities at LOREL and at ABBOT are shared with arrivals to both London Stansted and Cambridge airports. Additionally, the ABBOT holding facility will continue to be used for RNAV-5 arrivals into London Luton.
iii. Aircraft may be vectored off the routes for separation purposes. When separation has been achieved ATC will give an approximate track to resume the STAR via the appropriate VOR radial or fix.

b) Inbound other than via the ATS Route Network

i. Aircraft wishing to enter the London Stansted CTR/CTA direct from the London Flight Information Region are required to obtain ATC clearance at least 10 minutes before reaching the CTR or CTA boundary, when they will be advised of the route to be followed consistent with the current traffic situation.
ii. Except where required by the Instrument Approach Procedures, inbound aircraft to London Stansted, whether in VMC or IMC, should comply with the Noise Abatement procedures for arriving aircraft as detailed in Section AD 2.21.

c) Approach Procedures - with Radar Control

i. When inbound traffic is being sequenced by Radar, the Approach procedure will be flown under directions from the appropriate Radar Controller, and will consist of that part of the approach between the holding pattern and the Final Approach Track.
ii. Once the aircraft is under Approach Radar Control changes of heading or Flight Level/Altitude will be made only on instructions from the Radar Controller, except in the case of radio communications failure in the aircraft or at the Radar Unit
iii. Headings and Flight Levels/Altitudes to leave the holding facility will be passed by ATC. When holding is not necessary, radar vectors may be given prior to the aircraft reaching the holding pattern and descent clearance will include an estimate of track distance to touchdown.
iv. Procedures specific to Runway 22 arrivals via LOREL and ABBOT STARs.
Further distance information will be given between initial descent clearance and intercept heading to the ILS. On receipt of descent clearance the pilot will descend at the rate he judges will be best suited to the achievement of continuous descent, the object being to join the glidepath at the appropriate height for the distance without recourse to level flight.
v. Pilots should typically expect the following speed restrictions to be enforced: 220 KT from the holding facility during the intermediate approach phase; thereafter, and until established on final approach, the highest possible speed within the band 160-180 KT; when established on the ILS and thereafter until 4DME, 165 KT with a tolerance of +/- 5 KT.

These speeds are applied for ATC separation and runway capacity purposes and are mandatory. In the event of a new (non-speed related) ATC clearance being issued (eg an instruction to descend on ILS), pilots are not absolved from a requirement to maintain

a previously allocated speed. All speed restrictions are to be flown as accurately as possible. Aircraft unable to conform to these speeds should inform ATC and state what speeds will be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as feasible within their own operational constraints, advising ATC if circumstances necessitate a change of speed for aircraft performance reasons.

vi. The spacing provided between aircraft will be designed to achieve the maximum runway utilisation within the parameters of safe separation minima (including vortex effect) and runway occupancy. It is important to the validity of the separation provided that runway occupancy time is kept to a minimum consistent with the prevailing conditions.

vii. In the event of radar failure, new instructions will be issued to each aircraft under radar control and the procedures as defined for Approach without radar control, will be put into effect.

viii. In the event of radio communications failure at the Radar Unit, pilots should contact Aerodrome Control for further instructions.

d) Approach Procedures without Radar Control

When inbound traffic is not being sequenced by Radar, aircraft will be cleared from the Holding Fix to carry out the appropriate Instrument Approach procedure detailed at AD 2-EGSS-7-Initial Approach Procedures Charts.

e) RNP Z IAPs and RNP Y IAPs during Reduced Distance Operations:
See AD 2.20 Section 6 (i) for further information.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Standard Instrument Departure Procedures are detailed at AD 2-EGSS-6-1 to AD 2-EGSS-6-9.
b) Departure Speed Restriction: In order to optimise the departure flow and assist in the separation between successive departing aircraft a speed limit of 250 KT IAS below FL 100 is applicable until removed by ATC. ATC may remove the speed restriction by using the phrase 'No ATC Speed Restriction'. Pilots are reminded that this phrase does not relieve the pilot of the responsibility to adhere to the ground track of the Noise Preferential Route, which may require a speed/power limitation.
c) If for any reason pilots are unable to comply with the 250 KT IAS speed restriction the pilot should immediately advise ATC and state the minimum speed acceptable. If a pilot anticipates before departure that they will be unable to comply with the speed restriction, they should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this case the pilot will be informed before take-off of any higher speed limitation.
d) Flights via the ATS Route Network to Luton are to file a BKY SID as far as BKY and route BKY-BUSTA-EGGW.
e) The RNP1 SIDs, CLN1E and DET1D, can only be requested by an operator that has been approved by their State of Registry for RNP1 operations available only to aircraft which are GNSS equipped and approved in accordance with the requirements of JAA TGL-10 or equivalent.

3 RADIO COMMUNICATIONS FAILURE PROCEDURES

In the event of complete radio communication failure in an aircraft, the pilot is to adopt the appropriate procedures notified in ENR 1.1.3, with the exceptions described below:

a) Aircraft inbound to London Stansted or Cambridge via LOREL † or ABBOT ‡

i. When complete communication failure occurs in the aircraft before ETA, or before EAT, when this has been received and acknowledged the aircraft will:

1. continue to the appropriate holding point LOREL † or ABBOT ‡ as detailed at AD 2-EGSS-7-1 to 7-15;
2. hold until the last acknowledged ETA plus 10 minutes, or EAT when this has been given;
3. then commence descent for landing in accordance with the approach procedure for the runway in use and effect a landing within 30 minutes (or later if able to continue visually).

ii. If complete radio failure occurs after an aircraft has reported to ATC on reaching the holding point the aircraft will:

1. Maintain the last assigned level at LOREL † or ABBOT ‡ until:

aa ATA over the holding point plus 10 minutes or 10 minutes after the last acknowledged communication with ATC whichever is the later; or

bb EAT when this has been received and acknowledged.

2. then commence descent for landing in accordance with the approach procedure for the runway in use and effect a landing within 30 minutes (or later if able to continue visually).

iii. Radio failure during a Radar Directed Initial Approach to London Stansted

If complete radio failure occurs after clearance to descend to an altitude has been given during a radar directed initial approach, the following procedure should be adopted:

1. continue visually or by means of an appropriate final approach aid;
2. if not possible, maintain 3000 FT ALT or last assigned altitude if higher and proceed to BKY VOR, then;
3. hold at BKY VOR for 5 minutes (Holding axis 270° MAG inbound track (BKY RDL 090°), turning left at the facility, Max IAS 220 KT), then;
4. descend in the holding pattern if necessary to 3000 FT ALT, then;

5. leave BKY VOR on RDL 197 (Runway 04) or RDL 070 (Runway 22) to join the Initial Approach Procedure detailed at AD 2-EGSS-7-Initial Approach Procedures Charts;
6. in the event of a missed approach, follow the Missed Approach Procedure to BKY VOR and adopt the basic radio failure procedure detailed at ENR 1.1.3

iv. The route and level to be used when leaving Controlled Airspace in accordance with the procedures given at ENR 1.1.3 is as follows:

Position at time of decision	Route
ABBOT	Turn right onto track 360°M at last assigned level.
LOREL	Turn left onto BPK VOR RDL 030° at last assigned level.
BKY VOR	BKY VOR RDL 360° at 3000 FT ALT.

b) Outbound Aircraft

i. All outbound traffic except those operating on NUGBO 1R/1S: Comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedures listed at AD 2-EGSS-6 or ATC clearance and commence climb to flight planned level after the last position at which an altitude is specified.
ii. Outbound traffic operating on NUGBO 1R/1S: If a clearance to climb or re-routing instructions have not been given, comply with the route and altitude limitations detailed in the allocated Standard Instrument Departure Procedures listed at AD 2-EGSS-6-1/6-2, then route via M183 to SILVA; at SILVA, commence climb to flight planned level.

4 SPECIAL VFR FLIGHT

a) Clearance may be requested for Special VFR flight within the London Stansted CTR and will be given whenever the traffic situation permits. Special VFR flights are subject to the general conditions laid down at ENR 1.4

Note: *Pilots holding a Private Pilot's Licence (Aeroplanes) are reminded of the flight visibility requirements for Special VFR flight laid down in Schedule 7 of the Air Navigation Order 2009 and the related notification at ENR 1-4, para 2.4.*

b) Aircraft may be subject to radar vectoring whilst within the CTR if, due to the traffic situation, ATC considers it necessary. Pilots are reminded that they must at all times when operating on a Special VFR Clearance, remain clear of cloud and in sight of the surface and in flight conditions which will enable them to determine their flight path and remain clear of obstacles. Pilots **must** inform the radar controller if compliance with these requirements entails a change of heading or level.
c) Pilots are reminded that a Special VFR clearance applies only to flight within the CTR and does not extend to flight within the surrounding airspace of the London TMA or London Luton airspace.
d) In order to reduce conflict with IFR flights, Special VFR arriving and departing flights will normally be cleared not above 1500 FT ALT via the following routes.

i. Audley End Railway Station VRP via M11 Motorway;
ii. Canfield A120/B1256 INTERCHANGE VRP;
iii. Puckeridge A10/A120 INTERCHANGE VRP via north side of A120 trunk road, **avoiding Bishop's Stortford;**
iv. Nuthampsted AD VRP.

5 VFR FLIGHTS

a) VFR flights inbound to London Stansted or transitting the Stansted CTR/CTA should contact Stansted Radar at least five minutes prior to the CTR/CTA boundary and must not enter the CTR/CTA unless clearance has been given.
b) VFR flights will be given routeing instructions and/or altitude restrictions in order to integrate VFR flights with other traffic. Clearance may be subject to delay or re-routeing. Pilots should anticipate clearance with reference to the Stansted VRPs.
c) In order to reduce conflict with IFR flights, VFR arriving and departing flights will normally be cleared not above 2000 FT ALT via the routes detailed in paragraph 4 d.
d) Pilots are reminded of the Stansted Transponder Mandatory Zones and of the close proximity of busy minor aerodromes.

6 VISUAL REFERENCE POINTS (VRP)

a) VRPs have been established to facilitate the routes detailed in paragraphs 4d and 5b and to enable pilots of transit flights to plan alternative routes around the CTR/CTA when traffic conditions require.
b) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

7 HELICOPTERS

a) Helicopters inbound to or overflying London Stansted Airport may be required to hold at the following additional VRPs within the aerodrome boundary for integration with arriving and departing flights:

- **From the north:**

  North end of Hangar 12 VRP †.
- **From the south:**

  Diamond Hangar (Hangar 8) VRP.

- **From/to the west:**

  Helicopters arriving/departing via the Puckeridge A10/A120 INTERCHANGE VRP are to route to Hazelend Wood VRP avoiding overflying the built-up areas, of Birchanger, Stansted Mountfitchet and Bishop's Stortford.

  † See AD 2.20, Section 5 and AD 2-EGSS-4-1.

b) Helicopters positioning from the VRPs to the runway shall maintain at least 500 FT AGL until aligned with the let down point.

8 TRANSPONDER MANDATORY ZONE ACCESS

a) Suitably equipped aircraft may access a Stansted TMZ without ATC approval although such traffic is strongly recommended to afford itself of either a UK Flight Information Service or make use of an appropriate Monitoring Code (see ENR 1.6, para 2.2.5) if available.
b) The pilot of an aircraft that wishes to operate in a Stansted TMZ without serviceable transponder equipment as defined in GEN 1.5 para 5.3 may be granted access to the TMZ subject to specific ATC approval. This approval may be obtained from Farnborough Radar on frequency 132.800 during their hours of operation 0800-2000 (0700-1900) or from Stansted Radar on frequency 120.625, at other times.

9 FIXED WING, GLIDING, HANG-GLIDING, PARAGLIDING AND MICROLIGHT ACTIVITY - STANSTED CTR/CTA

a) Microlight and fixed wing activity takes place during daylight hours at Audley End. The Audley End Operating Area is delineated by reference to the eastern and southern boundaries of an easily identified forest area defined as the airspace from the surface to 1500 FT AMSL including that portion of the Stansted CTR contained within the following positions:
520009N 0001341E (CTR boundary) then clockwise to 515937N 0001351E - 515926N 0001347E - 515920N 0001329E - 515919N 0001225E (CTR boundary).
b) Intense gliding activity within the Andrewsfield ATZ, a circle, 2 NM radius centred at 515342N 0002657E. Refer to AD 2 EGSL for more details.
c) Microlight activity takes place during daylight hours at Hunsdon Aerodrome and part of the Stansted CTR up to altitude 1000 FT within the area defined by straight lines joining successively the following points:
514927N 0000226E - 515001N 0000415E - 514929N 0000537E - 514705N 0000357E - 514706N 0000157E - 514654N 0000123E - 514824N 0000051W - 514905N 0000030W - 514917N 0000127W - 515041N 0000039W - 514927N 0000226E.

10 FREQUENCY MONITORING CODE (FMC)

a) Due to the high number of controlled airspace infringements, pilots operating in the vicinity of, but intending to remain outside Stansted controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Stansted Radar frequency, 120.625 MHz, are expected to select SSR code 7013.

  514111N 0001345W - 514459N 0000624W -
  520311N 0000141W - 521109N 0000102W -
  521104N 0003242E - 520226N 0004040E -
  515246N 0004658E - 513630N 0001545E -
  514111N 0001345W.

b) Selection of 7013 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Stansted controlled airspace at all times.
c) Whilst squawking 7013, pilots should be aware that Stansted Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) Pilots operating at adjacent aerodromes such as Cambridge, Duxford, Andrewsfield and Stapleford are to select the most appropriate frequency to their location and Rules of the Air.
e) When a pilot ceases to maintain a listening watch, code 7013 shall be deselected.

EGSS AD 2.23 ADDITIONAL INFORMATION

a) Mode S Barometric Pressure Setting Data

London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

EGSS AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSS-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGSS-2-2

A380 GROUND MOVEMENT CHART - ICAO
AD 2.EGSS-2-3
AIRCRAFT DE-ICING PADS - ICAO
AD 2.EGSS-2-4
NOISE PREFERENTIAL ROUTEINGS
AD 2.EGSS-3-1
CONTROL ZONE and CONTROL AREA CHART - ENTRY/EXIT LANES and VRPS - TRANSPONDER MANDATORY ZONES
AD 2.EGSS-4-1
HELICOPTER VFR ARRIVAL/DEPARTURE ROUTES
AD 2.EGSS-4-3
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGSS-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) UTAVA/NUGBO/BKY RWY 22 - ICAO
AD 2.EGSS-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) UTAVA/NUGBO/BKY RWY 04 - ICAO
AD 2.EGSS-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) CLACTON - ICAO
AD 2.EGSS-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) DETLING - ICAO
AD 2.EGSS-6-4
STANDARD DEPARTURE CHART - INSTRUMENT (SID) LAMBOURNE 4R 3S - ICAO
AD 2.EGSS-6-5
RNP1 STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 22 CLN 2E - ICAO
AD 2.EGSS-6-6
RNP1 STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 04 DET 2D - ICAO
AD 2.EGSS-6-7
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 22 CLN 2E
AD 2.EGSS-6-8
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 04 DET 2D
AD 2.EGSS-6-9
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) TELTU 1L - ICAO
AD 2.EGSS-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) LISTO 1L - ICAO
AD 2.EGSS-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BKY 1X BPK 1X - ICAO
AD 2.EGSS-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BANVA 1L ABBOT 1Z - ICAO
AD 2.EGSS-7-4
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) FINMA 1L SILVA 1L - ICAO
AD 2.EGSS-7-5
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) AVANT 1L - ICAO
AD 2.EGSS-7-6
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) SIRIC 1L - ICAO
AD 2.EGSS-7-7
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) LOGAN 2A DET 2A - ICAO
AD 2.EGSS-7-8
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) MEGEL 1A RINIS 1A TOSVA 1A XAMAN 1A - ICAO
AD 2.EGSS-7-9
STANDARD INSTRUMENT ARRIVAL CODING TABLES TELTU 1L LISTO 1L BKY 1X BPK 1X
AD 2.EGSS-7-10
STANDARD INSTRUMENT ARRIVAL CODING TABLES BANVA 1L ABBOT 1Z FINMA 1L
AD 2.EGSS-7-11
STANDARD INSTRUMENT ARRIVAL CODING TABLES SILVA 1L AVANT 1L SIRIC 1L
AD 2.EGSS-7-12
STANDARD INSTRUMENT ARRIVAL CODING TABLES LOGAN 2A DET 2A MEGEL 1A RINIS 1A
AD 2.EGSS-7-13
STANDARD INSTRUMENT ARRIVAL CODING TABLES TOSVA 1A XAMAN 1A
AD 2.EGSS-7-14
RNAV HOLD CODING TABLES ABBOT ADLOG BOMBO HON LAPRA LOGAN LOREL
AD 2.EGSS-7-15
RNAV HOLD CODING TABLES UNDUG VATON
AD 2.EGSS-7-16

INITIAL APPROACH PROCEDURES ILS RWY 04 Without Radar Control
AD 2.EGSS-7-17
INITIAL APPROACH PROCEDURES ILS RWY 22 Without Radar Control
AD 2.EGSS-7-18
INSTRUMENT APPROACH CHART ILS/DME RWY 04 - ICAO
AD 2.EGSS-8-1
INSTRUMENT APPROACH CHART LOC/DME RWY 04 - ICAO
AD 2.EGSS-8-2
INSTRUMENT APPROACH CHART RNP Z RWY 04 - ICAO
AD 2.EGSS-8-3
INSTRUMENT APPROACH CHART RNP Y RWY 04C - ICAO
AD 2.EGSS-8-4
INSTRUMENT APPROACH CHART ILS/DME RWY 22 - ICAO
AD 2.EGSS-8-5
INSTRUMENT APPROACH CHART LOC/DME RWY 22 - ICAO
AD 2.EGSS-8-6
INSTRUMENT APPROACH CHART RNP Z RWY 22 - ICAO
AD 2.EGSS-8-7
INSTRUMENT APPROACH CHART RNP Y RWY 22C - ICAO
AD 2.EGSS-8-8
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP Z RWY 04, RNP Y RWY 04C
AD 2.EGSS-8-9
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP Z RWY 22, RNP Y RWY 22C
AD 2.EGSS-8-10

EGSS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

INTENTIONALLY BLANK

AERODROME CHART - ICAO

ARP 515306N 0001406E

AD ELEV 348FT

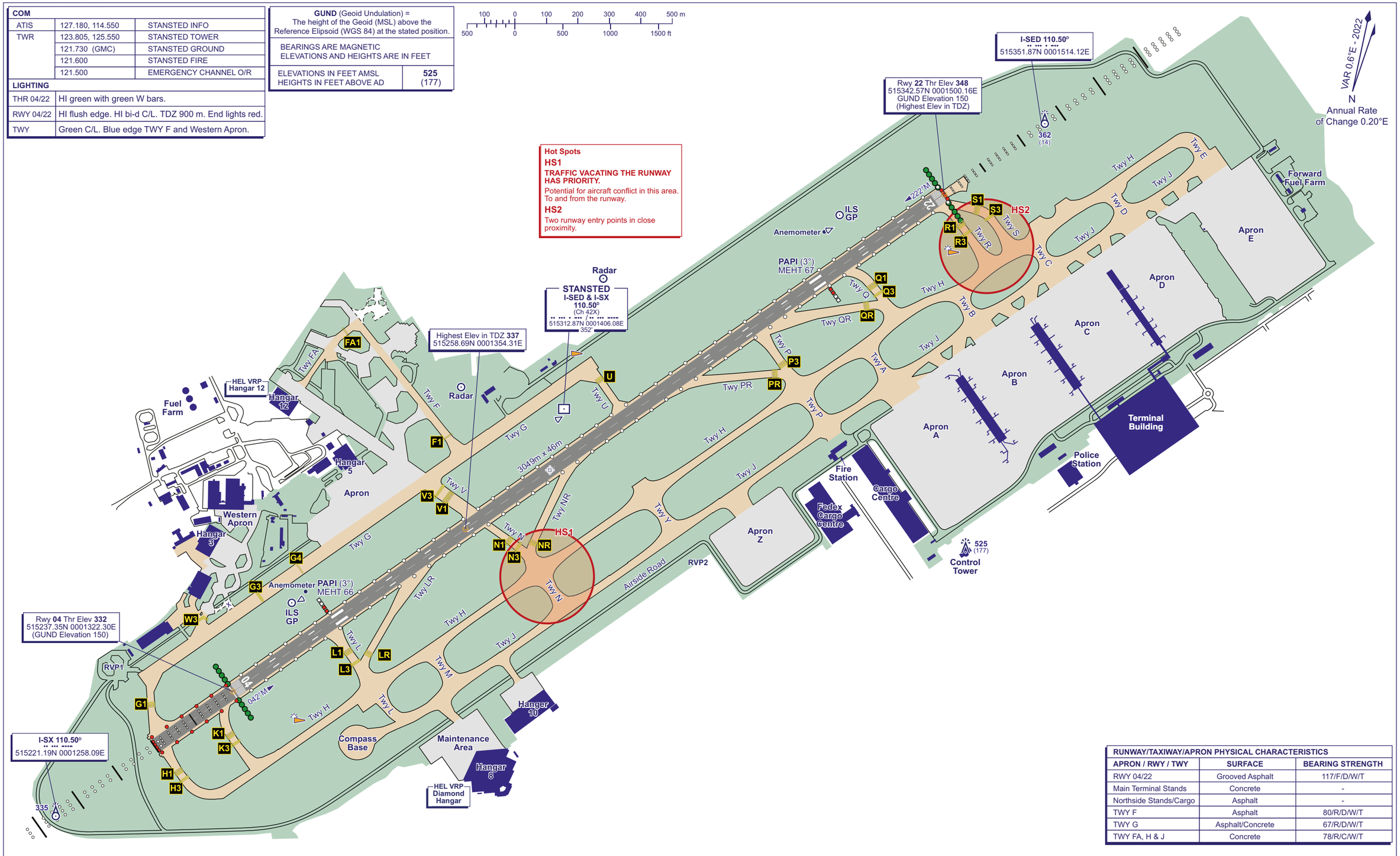
LONDON STANSTED
EGSS

COM		
ATIS	127.180, 114.550	STANSTED INFO
TWR	123.805, 125.550	STANSTED TOWER
	121.730 (GMC)	STANSTED GROUND
	121.600	STANSTED FIRE
	121.500	EMERGENCY CHANNEL O/R
LIGHTING		
THR 04/22	HI green with green W bars.	
RWY 04/22	HI flush edge. HI bi-d C/L. TDZ 900 m. End lights red.	
TWY	Green C/L. Blue edge TWY F and Western Apron.	

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**525** (177)



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 04/22	Grooved Asphalt	117/F/D/W/T
Main Terminal Stands	Concrete	-
Northside Stands/Cargo	Asphalt	-
TWY F	Asphalt	80/R/D/W/T
TWY G	Asphalt/Concrete	67/R/D/W/T
TWY FA, H & J	Concrete	78/R/C/W/T

CHANGE (10/24): APPROACH LIGHT EDITORIAL. IRVR THR 04 MOVED.

AERO INFO DATE 16 JUL 24

AD 2-EGSS-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 515306N 0001406E

AD ELEV 348FT

LONDON STANSTED
EGSS

STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE
	Apron A	A11	515318.08N 0001517.35E	B22	515322.37N 0001515.92E	B33	515329.12N 0001521.14E
A1L	515310.28N 0001510.99E	A11R	515317.03N 0001518.13E	B22R	515322.73N 0001516.07E	B33L	515328.94N 0001519.61E
A1	515310.43N 0001509.47E	A12L	515319.30N 0001512.71E	B23L	515323.91N 0001514.70E	B34R	515330.07N 0001518.47E
A1R	515311.00N 0001509.25E	A12	515319.69N 0001514.38E	B23	515323.82N 0001513.04E	B34	515330.79N 0001518.23E
A2	515312.03N 0001507.22E	A12R	515318.73N 0001514.79E	B23R	515324.56N 0001512.74E	B34L	515330.87N 0001516.74E
A3	515313.83N 0001504.84E	A13L	515321.12N 0001509.54E	B24L	515325.61N 0001511.35E		**Apron C**
A4	515313.91N 0001504.20E	A13	515321.55N 0001511.22E	B24	515325.42N 0001510.14E	C40	515326.84N 0001531.10E
A5	515314.78N 0001502.73E	A13R	515320.63N 0001511.74E	B24R	515326.36N 0001510.16E	C41	515327.91N 0001529.60E
A6	515315.44N 0001501.32E	A14	515322.42N 0001508.49E	J25L	515325.65N 0001508.91E	C42L	515328.95N 0001527.98E
A7	515315.63N 0001501.21E	A15L	515324.18N 0001505.11E	J25R	515325.09N 0001507.83E	C42	515328.90N 0001526.24E
A8	515316.02N 0001501.03E	A15	515323.49N 0001507.06E	B30	515324.60N 0001527.56E	C42R	515329.51N 0001526.05E
A9L	515317.39N 0001459.46E	A15R	515323.24N 0001506.74E	B31	515325.46N 0001525.85E	C43L	515330.59N 0001524.77E
A9	515317.40N 0001457.91E		**Apron B**	B32R	515326.50N 0001524.46E	C43	515330.45N 0001523.15E
A9R	515318.07N 0001457.35E	B20	515320.14N 0001521.15E	B32	515327.48N 0001524.10E	C43R	515331.31N 0001522.91E
A10	515316.07N 0001519.70E	B21	515321.01N 0001519.43E	B32L	515327.29N 0001522.72E	C44L	515332.34N 0001521.50E
A11L	515317.93N 0001516.54E	B22L	515321.81N 0001517.63E	B33R	515328.36N 0001521.34E	C44	515332.16N 0001520.29E

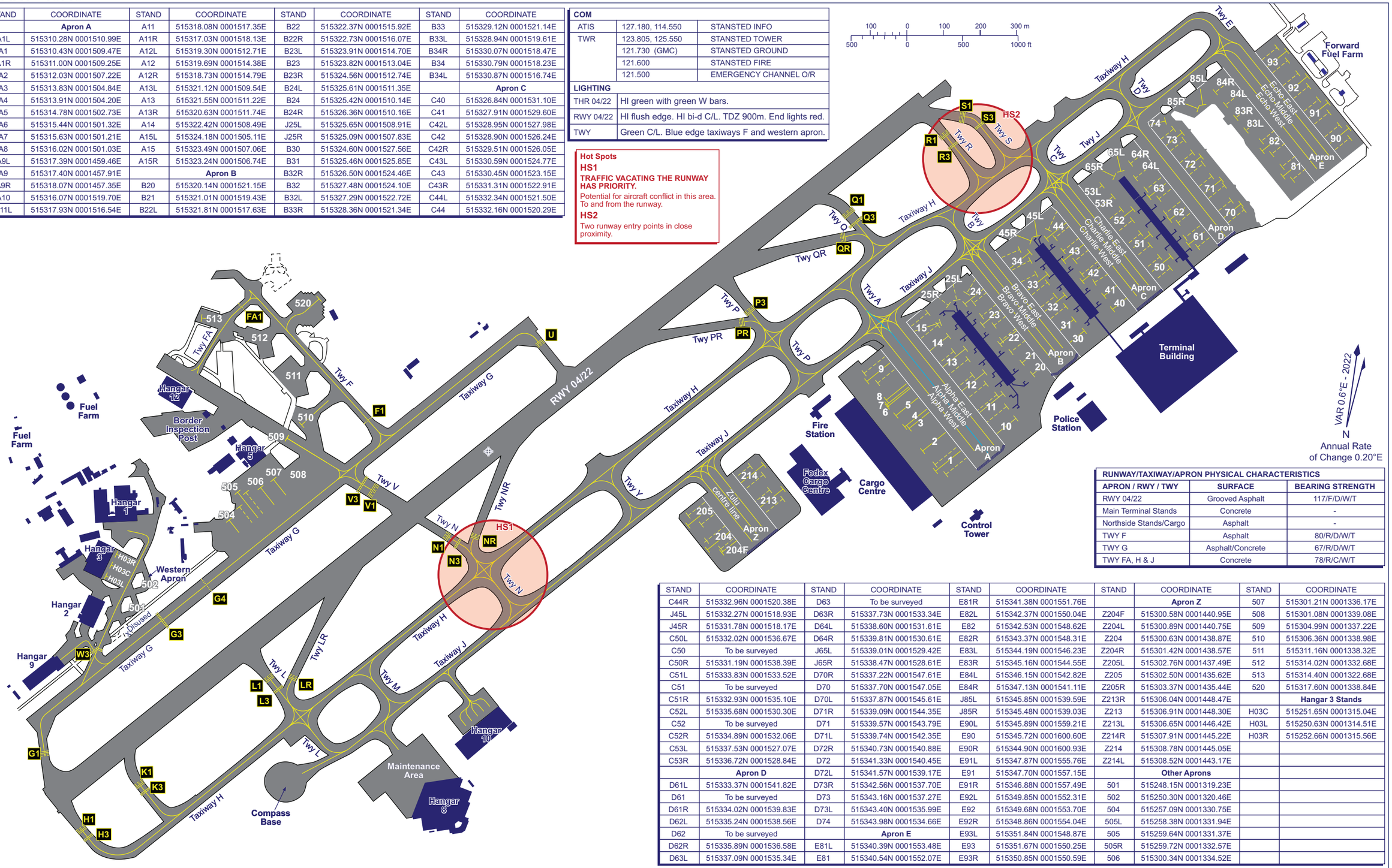
COM		
ATIS	127.180, 114.550	STANSTED INFO
TWR	123.805, 125.550	STANSTED TOWER
	121.730 (GMC)	STANSTED GROUND
	121.600	STANSTED FIRE
	121.500	EMERGENCY CHANNEL O/R

LIGHTING	
THR 04/22	HI green with green W bars.
RWY 04/22	HI flush edge. HI bi-d C/L. TDZ 900m. End lights red.
TWY	Green C/L. Blue edge taxiways F and western apron.

Hot Spots

HS1
TRAFFIC VACATING THE RUNWAY HAS PRIORITY.
Potential for aircraft conflict in this area. To and from the runway.

HS2
Two runway entry points in close proximity.



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 04/22	Grooved Asphalt	117/F/D/W/T
Main Terminal Stands	Concrete	-
Northside Stands/Cargo	Asphalt	-
TWY F	Asphalt	80/R/D/W/T
TWY G	Asphalt/Concrete	67/R/D/W/T
TWY FA, H & J	Concrete	78/R/C/W/T

STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE
C44R	515332.96N 0001520.38E	D63	To be surveyed	E81R	515341.38N 0001551.76E		**Apron Z**	507	515301.21N 0001336.17E
J45L	515332.27N 0001518.93E	D63R	515337.73N 0001533.34E	E82L	515342.37N 0001550.04E	Z204F	515300.58N 0001440.95E	508	515301.08N 0001339.08E
J45R	515331.78N 0001518.17E	D64L	515338.60N 0001531.61E	E82	515342.53N 0001548.62E	Z204L	515300.89N 0001440.75E	509	515304.99N 0001337.22E
C50L	515332.02N 0001536.67E	D64R	515339.81N 0001530.61E	E82R	515343.37N 0001548.31E	Z204	515300.63N 0001438.87E	510	515306.36N 0001338.98E
C50	To be surveyed	J65L	515339.01N 0001529.42E	E83L	515344.19N 0001546.23E	Z204R	515301.42N 0001438.57E	511	515311.16N 0001338.32E
C50R	515331.19N 0001538.39E	J65R	515338.47N 0001528.61E	E83R	515345.16N 0001544.55E	Z205L	515302.76N 0001437.49E	512	515314.02N 0001332.68E
C51L	515333.83N 0001533.52E	D70R	515337.22N 0001547.61E	E84L	515346.15N 0001542.82E	Z205	515302.50N 0001435.62E	513	515314.40N 0001322.68E
C51	To be surveyed	D70	515337.70N 0001547.05E	E84R	515347.13N 0001541.11E	Z205R	515303.37N 0001435.44E	520	515317.60N 0001338.84E
C51R	515332.93N 0001535.10E	D70L	515337.87N 0001545.61E	J85L	515345.85N 0001539.59E	Z213R	515306.04N 0001448.47E		**Hangar 3 Stands**
C52L	515335.68N 0001530.30E	D71R	515339.09N 0001544.35E	J85R	515345.48N 0001539.03E	Z213	515306.91N 0001448.30E	H03C	515251.65N 0001315.04E
C52	To be surveyed	D71	515339.57N 0001543.79E	E90L	515345.89N 0001559.21E	Z213L	515306.65N 0001446.42E	H03L	515250.63N 0001314.51E
C52R	515334.89N 0001532.06E	D71L	515339.74N 0001542.35E	E90	515345.72N 0001600.60E	Z214R	515307.91N 0001445.22E	H03R	515252.66N 0001315.56E
C53L	515337.53N 0001527.07E	D72R	515340.73N 0001540.88E	E90R	515344.90N 0001600.93E	Z214	515308.78N 0001445.05E		
C53R	515336.72N 0001528.84E	D72	515341.33N 0001540.45E	E91L	515347.87N 0001555.76E	Z214L	515308.52N 0001443.17E		
	Apron D	D72L	515341.57N 0001539.17E	E91	515347.70N 0001557.15E		**Other Aprons**		
D61L	515333.37N 0001541.82E	D73R	515342.56N 0001537.70E	E91R	515346.88N 0001557.49E	501	515248.15N 0001319.23E		
D61	To be surveyed	D73	515343.16N 0001537.27E	E92L	515349.85N 0001552.31E	502	515250.30N 0001320.46E		
D61R	515334.02N 0001539.83E	D73L	515343.40N 0001535.99E	E92	515349.68N 0001553.70E	504	515257.09N 0001330.75E		
D62L	515335.24N 0001538.56E	D74	515343.98N 0001534.66E	E92R	515348.86N 0001554.04E	505L	515258.38N 0001331.94E		
D62	To be surveyed		**Apron E**	E93L	515351.84N 0001548.87E	505	515259.64N 0001331.37E		
D62R	515335.89N 0001536.58E	E81L	515340.39N 0001553.48E	E93	515351.67N 0001550.25E	505R	515259.72N 0001332.57E		
D63L	515337.09N 0001535.34E	E81	515340.54N 0001552.07E	E93R	515350.85N 0001550.59E	506	515300.34N 0001334.52E		

CHANGE (8/24): STANDS A13 & B33 COORDS. EDITORIAL.

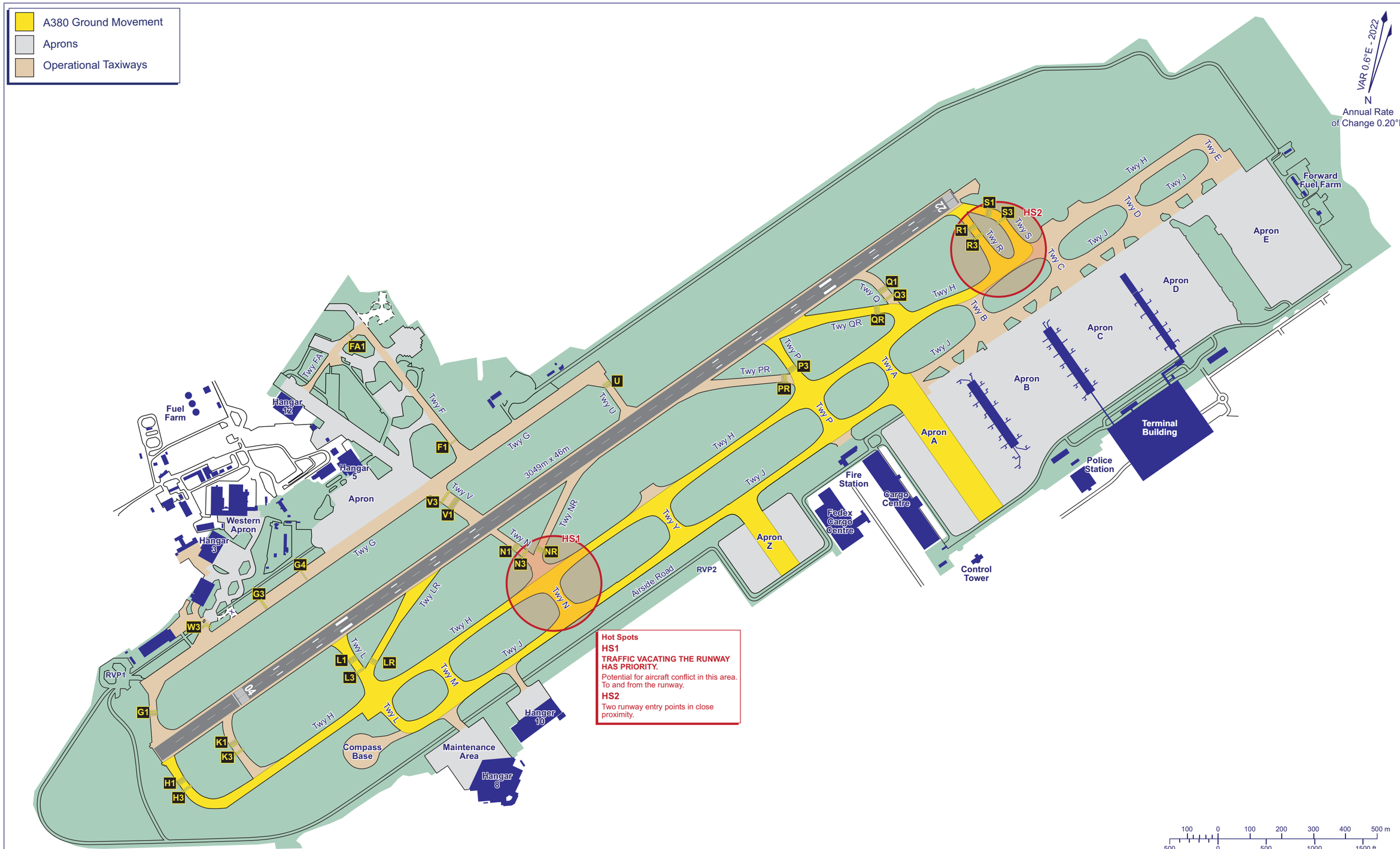
AERO INFO DATE 28 MAY 24

AERODROME CHART
A380 GROUND MOVEMENT - ICAO

ARP 515306N 0001406E

AD ELEV 348FT

LONDON STANSTED
EGSS



CHANGE (8/24): AIMING POINT MARKINGS.

AERO INFO DATE 03 JUN 24

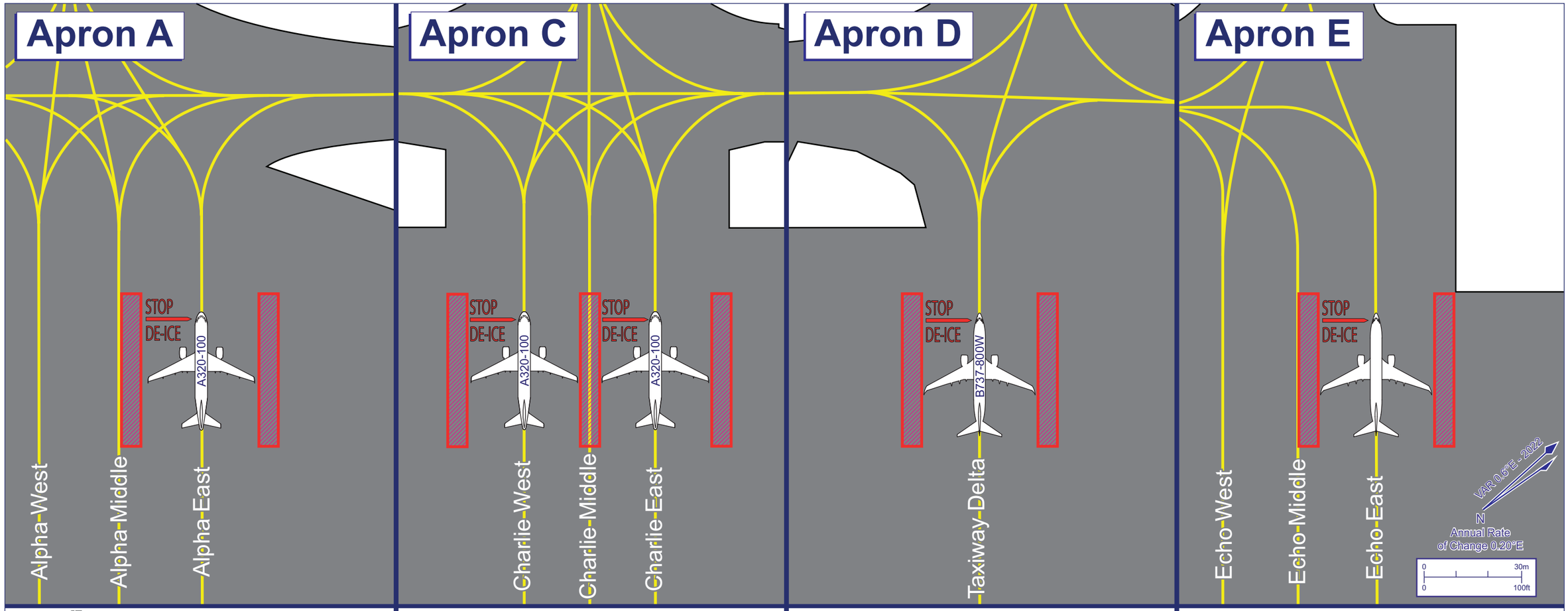
AD 2-EGSS-2-3

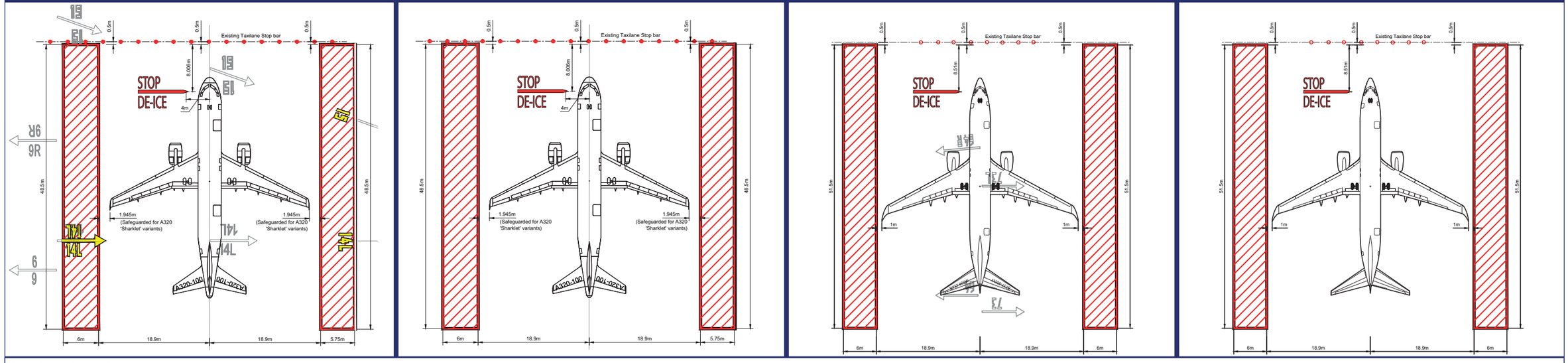
AIRCRAFT DE-ICING PADS CHART - ICAO

ARP 515306N 0001406E

AD ELEV 348FT

LONDON STANSTED
EGSS



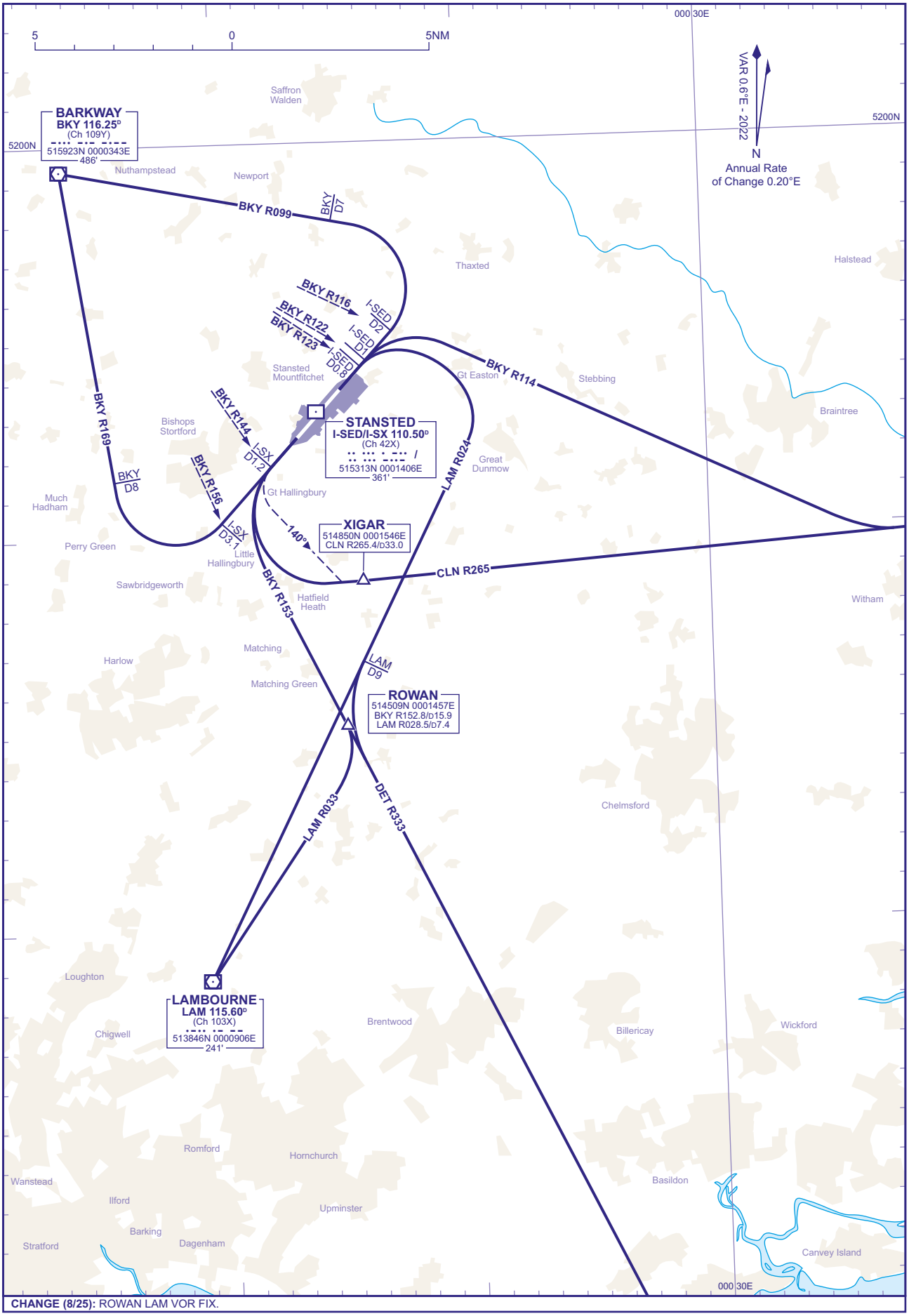


CHANGE (14/20): MAG VAR.

AERO INFO DATE 15 OCT 20

AD 2-EGSS-2-4

NOISE PREFERENTIAL ROUTEINGS — LONDON STANSTED



CHANGE (8/25): ROWAN LAM VOR FIX.

AERO INFO DATE 13 MAY 25

AD 2-EGSS-3-1

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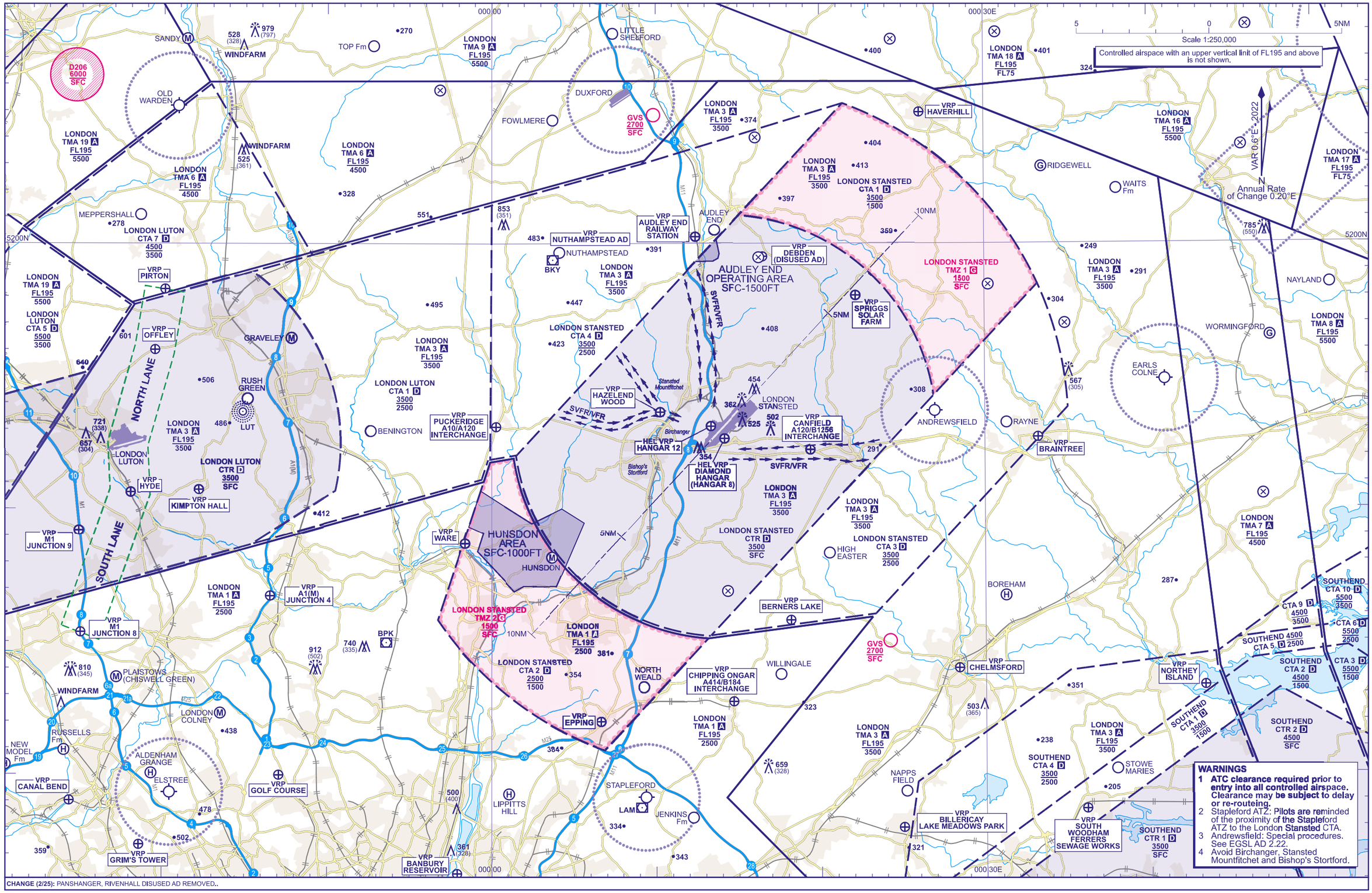
CONTROL ZONE AND CONTROL AREA CHART - ENTRY/EXIT LANES AND VRPs - TRANSPONDER MANDATORY ZONES

LONDON STANSTED



CHANGE (2/25): PANSHANGER, RIVENHALL DISUSED AD REMOVED..

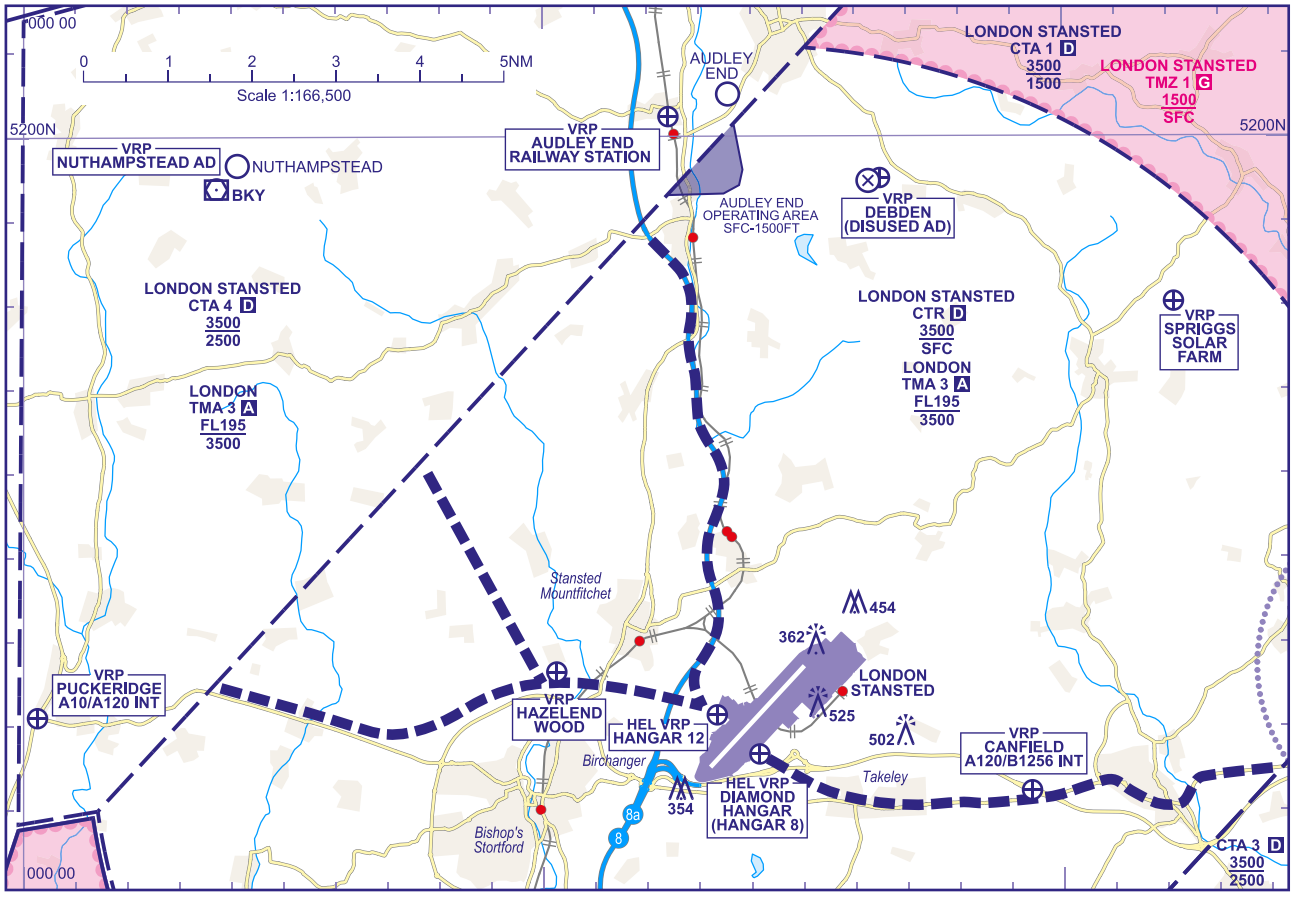
AERO INFO DATE 02 DEC 24

AD 2-EGSS-4-1

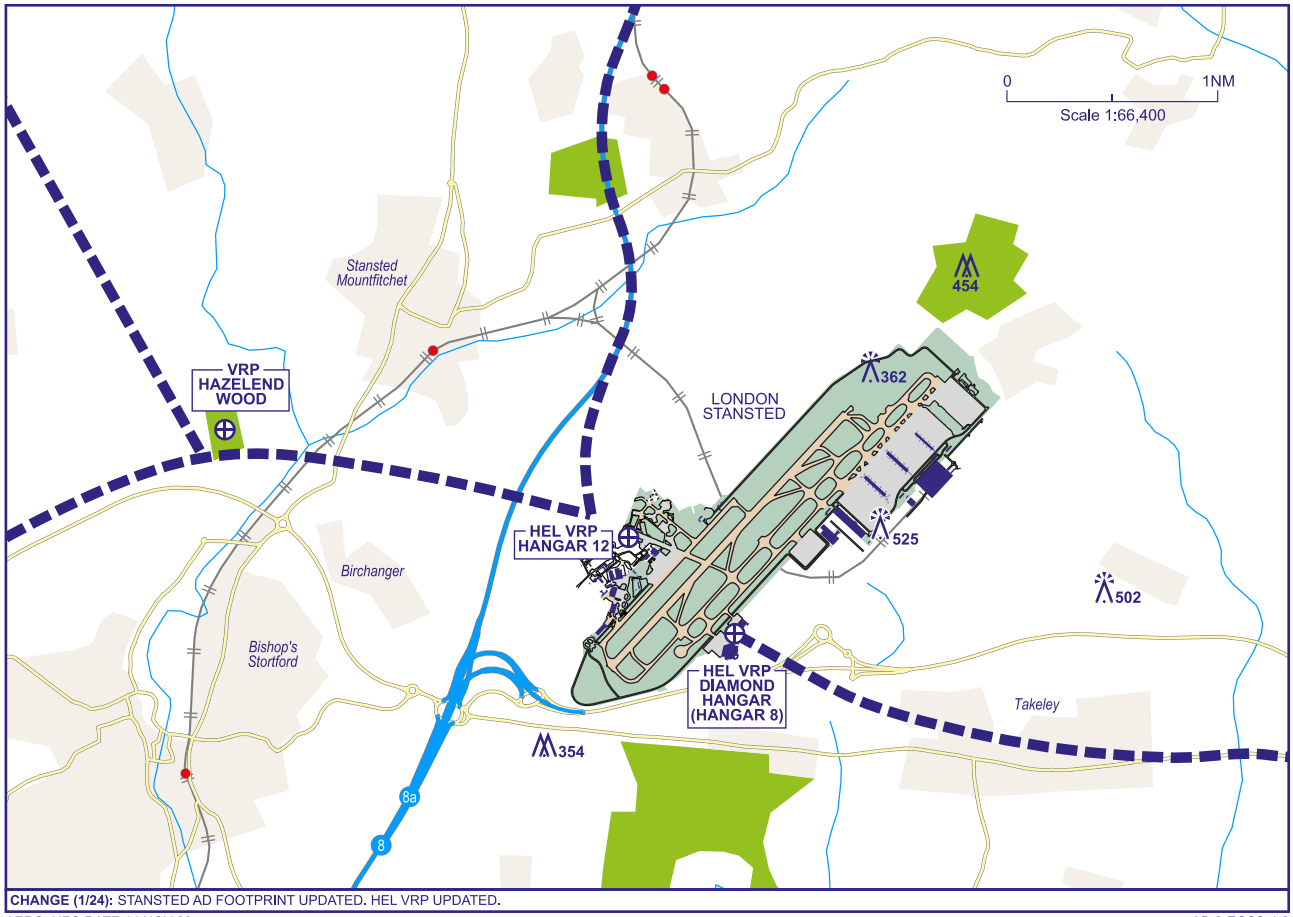
INTENTIONALLY BLANK

HELICOPTER VFR ARRIVAL/DEPARTURE ROUTES

LONDON STANSTED



DETAILED MAP OF FINAL/INITIAL STAGES



CHANGE (1/24): STANSTED AD FOOTPRINT UPDATED. HEL VRP UPDATED.

AERO INFO DATE 14 NOV 23

AD 2-EGSS-4-3

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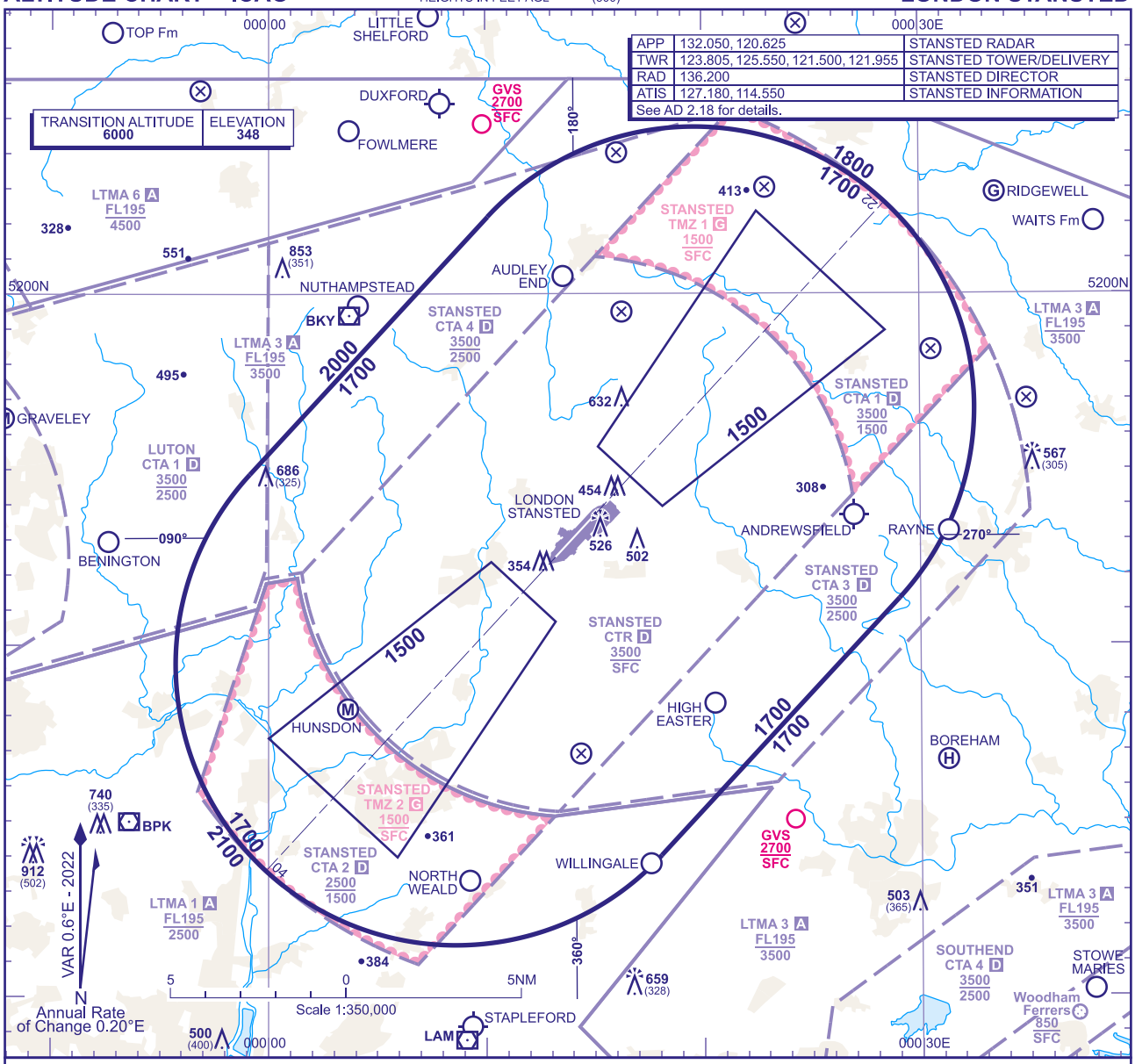
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 920
HEIGHTS IN FEET AGL (500)

LONDON STANSTED



MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is **1700** in the sector defined by the lateral limits; 515452N 0000052W - 520212N 0001006E thence clockwise by an arc of a circle radius 8NM centred on 515646N 0001935E to 515119N 0002902E - 514401N 0001803E thence clockwise by an arc of a circle radius 8NM centred on 514927N 0000837E to 515452N 0000052W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:
a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.
*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3000**, or last assigned level if higher, to **BKY VOR** and adopt the procedure detailed at EGSS AD 2.22.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure and then proceed to **BKY VOR** at **3000** and continue in accordance with the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (2/25): PANSHANGER, RIVENHALL DISUSED AD REMOVED.

AERO INFO DATE 02 DEC 24
AD 2-EGSS-5-1

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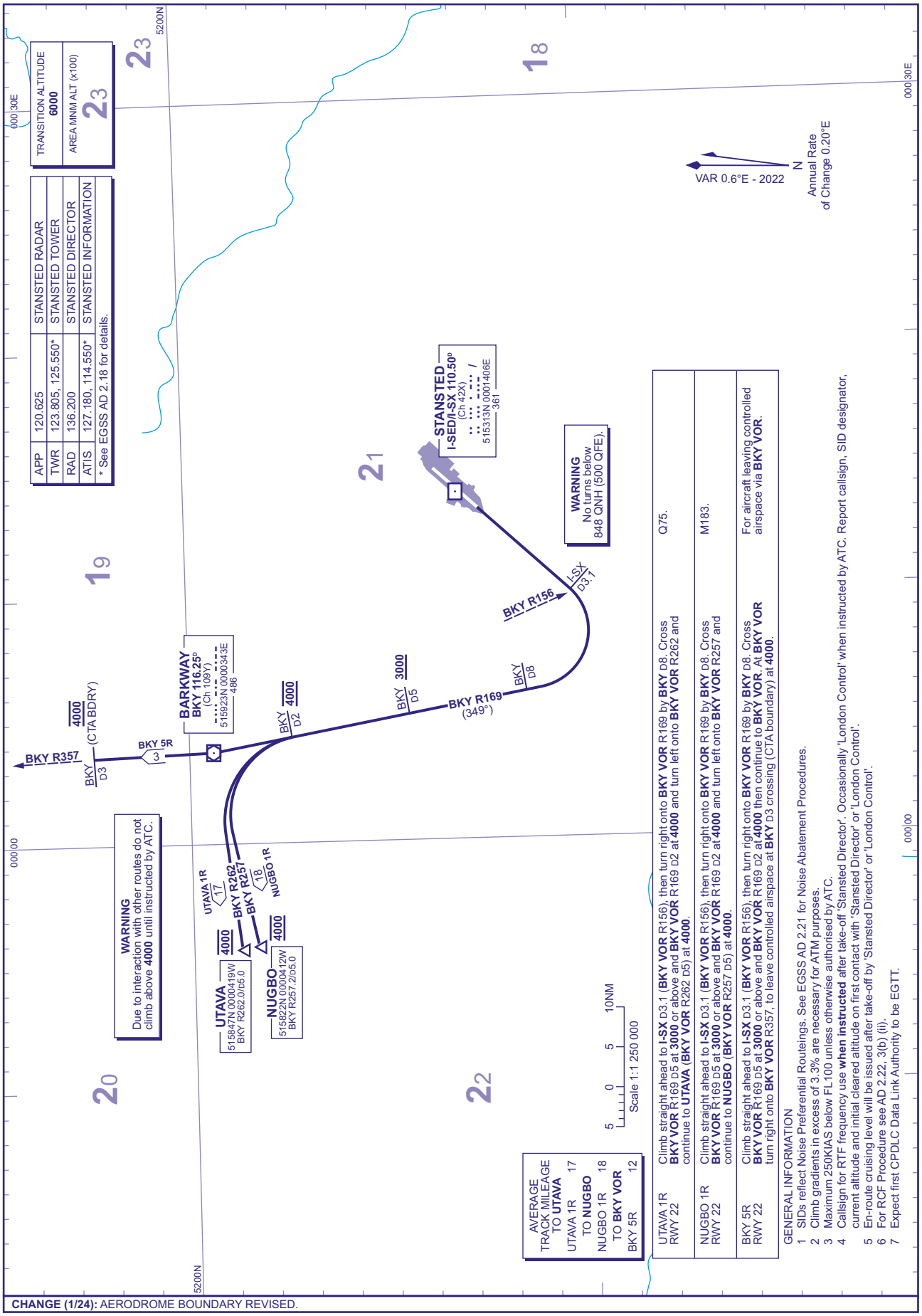
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
UTAVA/NUGBO/BKY - RWY 22



CHANGE (1/24): AERODROME BOUNDARY REVISED.

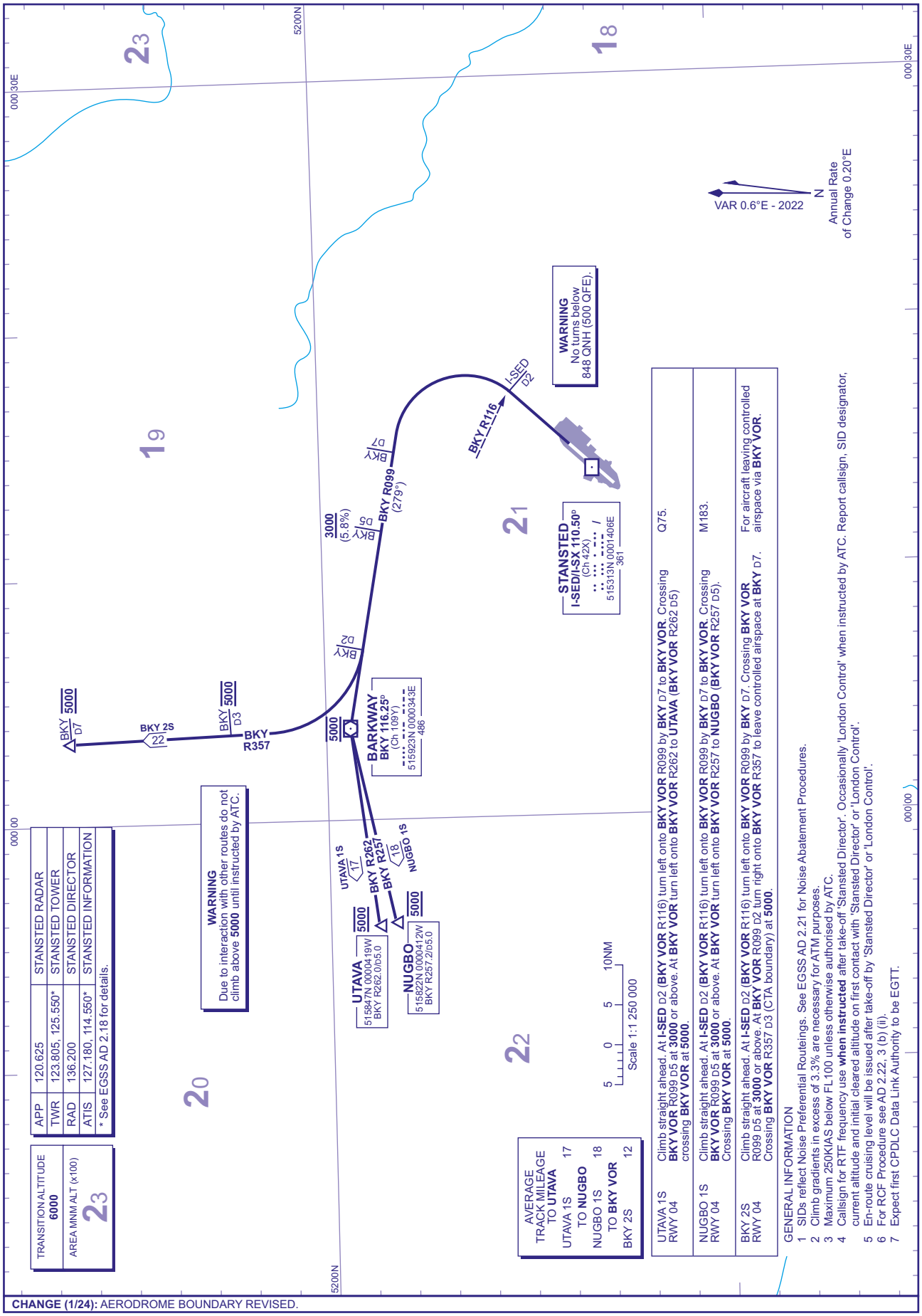
AERO INFO DATE 02 NOV 23

AD 2-EGSS-6-1

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
UTAVA/NUGBO/BKY - RWY 04



TRANSITION ALTITUDE 6000	
AREA MNM ALT (x100)	23

APP	120.625	STANSTED RADAR
TWR	123.805, 125.550*	STANSTED TOWER
RAD	136.200	STANSTED DIRECTOR
ATIS	127.180, 114.550*	STANSTED INFORMATION

* See EGSS AD 2.18 for details.

AVERAGE TRACK MILEAGE TO **UTAVA**	
UTAVA 1S	17
TO **NUGBO**	
NUGBO 1S	18
TO **BKY VOR**	
BKY 2S	12

UTAVA 1S RWY 04	Climb straight ahead. At **I-SED** D2 (**BKY VOR** R116) turn left onto **BKY VOR** R099 by **BKY** D7 to **BKY VOR**. Crossing **BKY VOR** R099 D5 at **3000** or above. At **BKY VOR** turn left onto **BKY VOR** R262 to **UTAVA** (**BKY VOR** R262 D5) crossing **BKY VOR** at **5000**. Q75.
NUGBO 1S RWY 04	Climb straight ahead. At **I-SED** D2 (**BKY VOR** R116) turn left onto **BKY VOR** R099 by **BKY** D7 to **BKY VOR**. Crossing **BKY VOR** R099 D5 at **3000** or above. At **BKY VOR** turn left onto **BKY VOR** R257 to **NUGBO** (**BKY VOR** R257 D5). Crossing **BKY VOR** at **5000**. M183.
BKY 2S RWY 04	Climb straight ahead. At **I-SED** D2 (**BKY VOR** R116) turn left onto **BKY VOR** R099 by **BKY** D7. Crossing **BKY VOR** R099 D5 at **3000** or above. At **BKY VOR** R099 D2 turn right onto **BKY VOR** R357 to leave controlled airspace at **BKY** D7. Crossing **BKY VOR** R357 D3 (CTA boundary) at **5000**. For aircraft leaving controlled airspace via **BKY VOR**.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGSS AD 2.21 for Noise Abatement Procedures.
2 Climb gradients in excess of 3.3% are necessary for ATM purposes.
3 Maximum 250KIAS below FL100 unless otherwise authorised by ATC.
4 Callsign for RTF frequency use **when instructed** after take-off 'Stansted Director'. Occasionally 'London Control' when instructed by ATC. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'Stansted Director' or 'London Control'.
5 En-route cruising level will be issued after take-off by 'Stansted Director' or 'London Control'.
6 For RCF Procedure see AD 2.22, 3 (b) (ii).
7 Expect first CPDLC Data Link Authority to be EGTT.

CHANGE (1/24): AERODROME BOUNDARY REVISED.

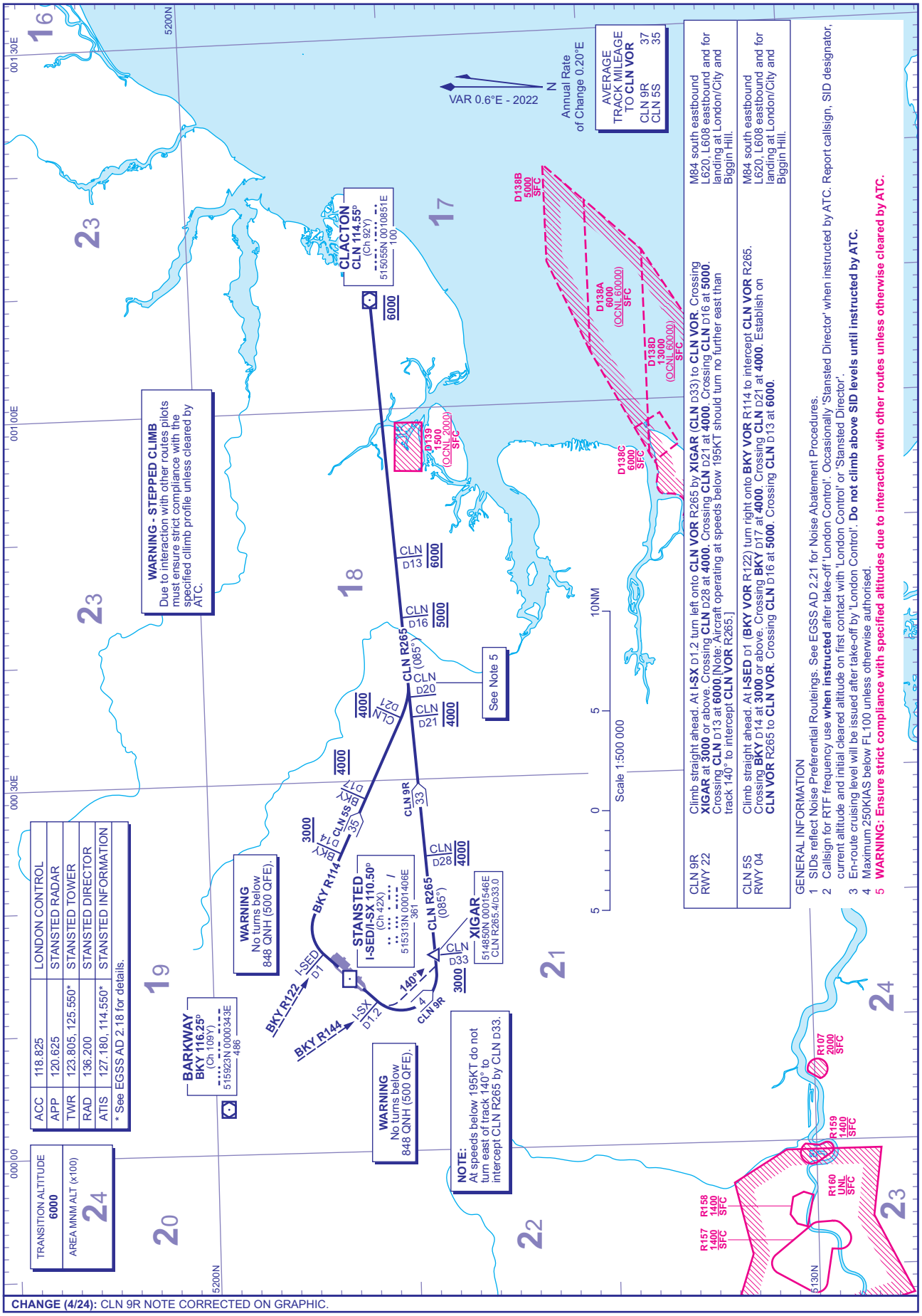
AERO INFO DATE 02 NOV 23

AD 2-EGSS-6-2

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
CLACTON



CHANGE (4/24): CLN 9R NOTE CORRECTED ON GRAPHIC.

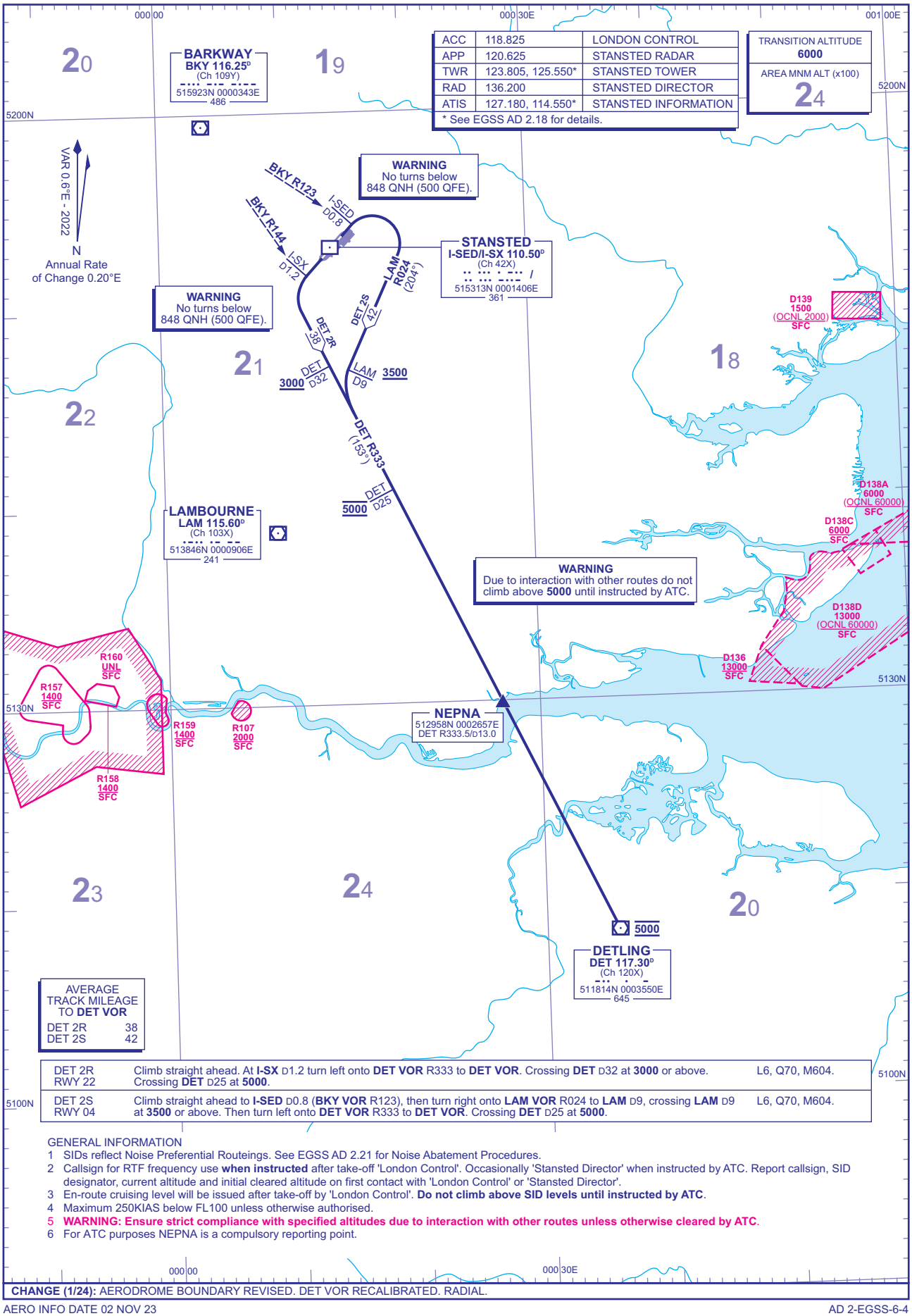
AERO INFO DATE 29 JAN 24

AD 2-EGSS-6-3

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED DETLING



AVERAGE TRACK MILEAGE TO **DET VOR**	
DET 2R	38
DET 2S	42

DET 2R RWY 22	Climb straight ahead. At **I-SX** D1.2 turn left onto **DET VOR** R333 to **DET VOR**. Crossing **DET** D32 at **3000** or above. Crossing **DET** D25 at **5000**.	L6, Q70, M604.
DET 2S RWY 04	Climb straight ahead to **I-SED** D0.8 (**BKY VOR** R123), then turn right onto **LAM VOR** R024 to **LAM** D9, crossing **LAM** D9 at **3500** or above. Then turn left onto **DET VOR** R333 to **DET VOR**. Crossing **DET** D25 at **5000**.	L6, Q70, M604.

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGSS AD 2.21 for Noise Abatement Procedures.
2 Callsign for RTF frequency use **when instructed** after take-off 'London Control'. Occasionally 'Stansted Director' when instructed by ATC. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control' or 'Stansted Director'.
3 En-route cruising level will be issued after take-off by 'London Control'. **Do not climb above SID levels until instructed by ATC**.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 **WARNING: Ensure strict compliance with specified altitudes due to interaction with other routes unless otherwise cleared by ATC.**
6 For ATC purposes NEPNA is a compulsory reporting point.

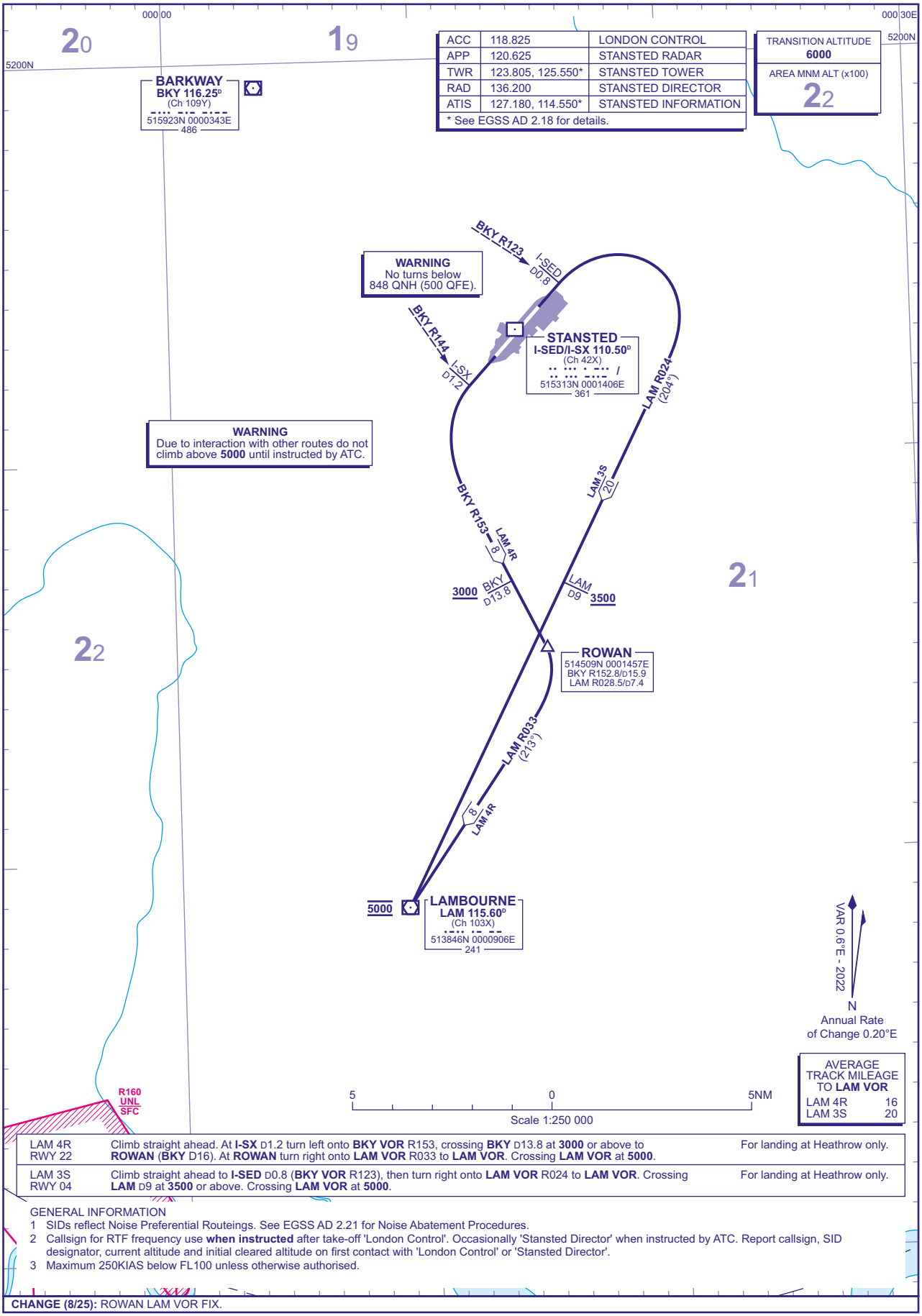
CHANGE (1/24): AERODROME BOUNDARY REVISED. DET VOR RECALIBRATED. RADIAL.

AERO INFO DATE 02 NOV 23

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED LAMBOURNE 4R 3S



LAM 4R RWY 22	Climb straight ahead. At **I-SX** D1.2 turn left onto **BKY VOR** R153, crossing **BKY** D13.8 at **3000** or above to **ROWAN** (**BKY** D16). At **ROWAN** turn right onto **LAM VOR** R033 to **LAM VOR**. Crossing **LAM VOR** at **5000**.	For landing at Heathrow only.
LAM 3S RWY 04	Climb straight ahead to **I-SED** D0.8 (**BKY VOR** R123), then turn right onto **LAM VOR** R024 to **LAM VOR**. Crossing **LAM** D9 at **3500** or above. Crossing **LAM VOR** at **5000**.	For landing at Heathrow only.

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGSS AD 2.21 for Noise Abatement Procedures.
2 Callsign for RTF frequency use **when instructed** after take-off 'London Control'. Occasionally 'Stansted Director' when instructed by ATC. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control' or 'Stansted Director'.
3 Maximum 250KIAS below FL100 unless otherwise authorised.

CHANGE (8/25): ROWAN LAM VOR FIX.

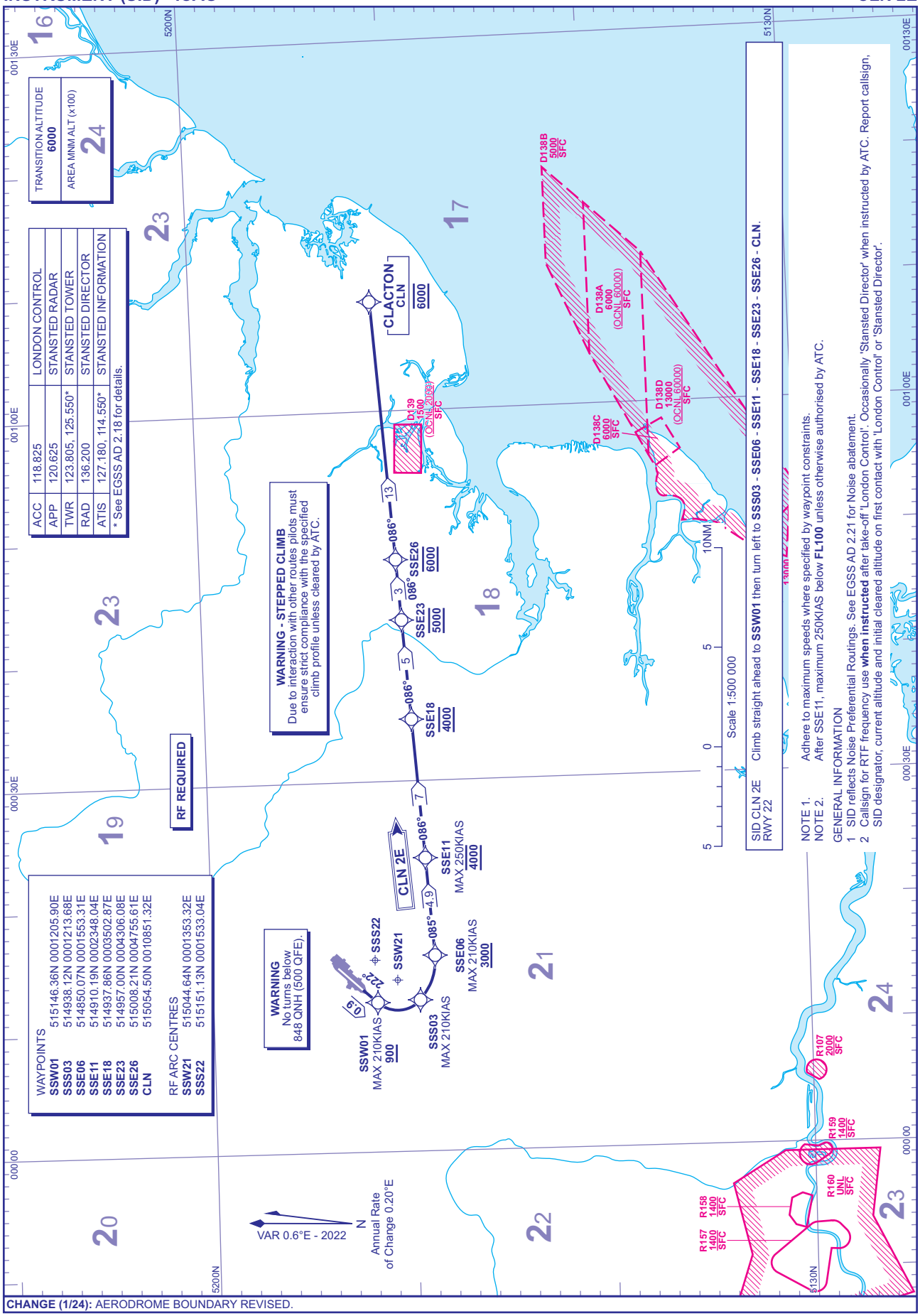
AERO INFO DATE 13 MAY 25

I

RNP1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
RWY 22
CLN 2E



CHANGE (1/24): AERODROME BOUNDARY REVISED.

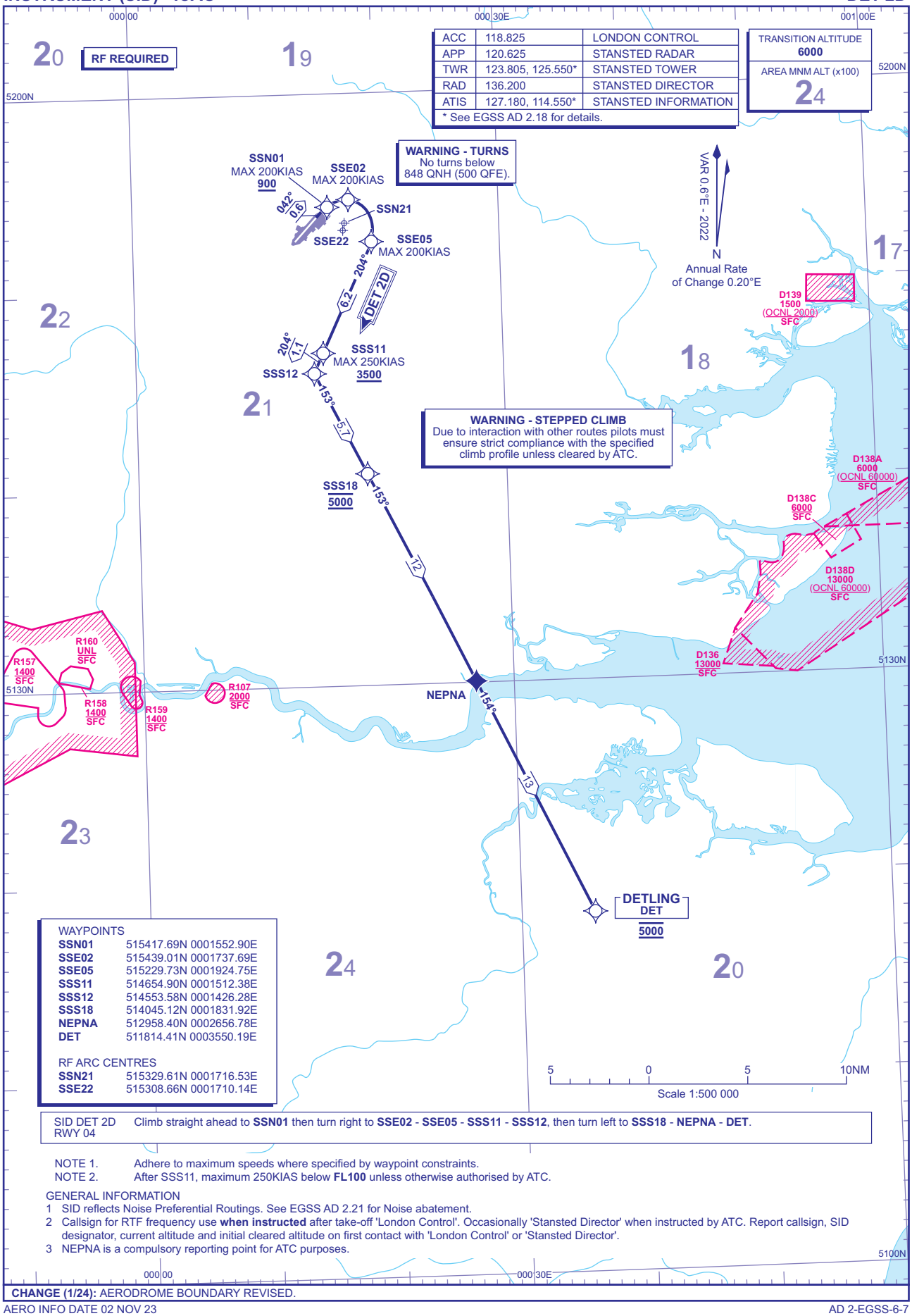
AERO INFO DATE 02 NOV 23

AD 2-EGSS-6-6

RNP1 STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
RWY 04
DET 2D



WAYPOINTS

SSN01	515417.69N 0001552.90E
SSE02	515439.01N 0001737.69E
SSE05	515229.73N 0001924.75E
SSS11	514654.90N 0001512.38E
SSS12	514553.58N 0001426.28E
SSS18	514045.12N 0001831.92E
NEPNA	512958.40N 0002656.78E
DET	511814.41N 0003550.19E

RF ARC CENTRES

SSN21	515329.61N 0001716.53E
SSE22	515308.66N 0001710.14E

SID DET 2D RWY 04 — Climb straight ahead to **SSN01** then turn right to **SSE02** - **SSE05** - **SSS11** - **SSS12**, then turn left to **SSS18** - **NEPNA** - **DET**.

NOTE 1. Adhere to maximum speeds where specified by waypoint constraints.
NOTE 2. After SSS11, maximum 250KIAS below **FL100** unless otherwise authorised by ATC.

GENERAL INFORMATION
1 SID reflects Noise Preferential Routings. See EGSS AD 2.21 for Noise abatement.
2 Callsign for RTF frequency use **when instructed** after take-off 'London Control'. Occasionally 'Stansted Director' when instructed by ATC. Report callsign, SID designator, current altitude and initial cleared altitude on first contact with 'London Control' or 'Stansted Director'.
3 NEPNA is a compulsory reporting point for ATC purposes.

CHANGE (1/24): AERODROME BOUNDARY REVISED.

AERO INFO DATE 02 NOV 23

AD 2-EGSS-6-7

Standard Instrument Departure Coding Tables

London Stansted Runway 22 CLN 2E

Designator	Sequence Number	Path Termi-nator	Waypoint Name	Waypoint Co-ordinates	Arc Centre Name	Arc Centre Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint (KT)	Navigation Performance
CLN 2E	001	CF	SSW01	515146.36N 0001205.90E	-	-	N	222° (222.9°)	0.6	0.9	-	+900	-210	RNP1
CLN 2E	002	RF	SSS03	514938.12N 0001213.68E	SSW21	515044.64N 0001353.32E	N	-	0.6	-	LEFT	-	-210	RNP1
CLN 2E	003	RF	SSE06	514850.07N 0001553.31E	SSS22	515151.13N 0001533.04E	N	-	0.6	-	LEFT	+3000	-210	RNP1
CLN 2E	004	TF	SSE11	514910.19N 0002348.04E	-	-	N	085° (086.0°)	0.6	4.9	-	4000	-250	RNP1
CLN 2E	005	TF	SSE18	514937.86N 0003502.87E	-	-	N	086° (086.3°)	0.6	7.0	-	4000	-	RNP1
CLN 2E	006	TF	SSE23	514957.00N 0004306.08E	-	-	N	086° (086.3°)	0.6	5.0	-	5000	-	RNP1
CLN 2E	007	TF	SSE26	515008.21N 0004755.61E	-	-	N	086° (086.4°)	0.6	3.0	-	6000	-	RNP1
CLN 2E	008	TF	CLN	515054.50N 0010851.32E	-	-	N	086° (086.5°)	0.6	13.0	-	6000	-	RNP1

CHANGE (2/22): DESIGNATOR. SSE06 & SSE11 LEVEL CONSTRAINTS.
AERO INFO DATE 03 DEC 21

Standard Instrument Departure Coding Tables

London Stansted Runway 04 DET 2D

Designator	Sequence Number	Path Term-inator	Waypoint Name	Waypoint Co-ordinates	Arc Centre Name	Arc Centre Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint (KT)	Navigation Performance
DET 2D	001	CF	SSN01	515417.69N 0001552.90E	-	-	N	042° (042.9°)	0.6	0.6	-	+900	-200	RNP1
DET 2D	002	RF	SSE02	515439.01N 0001737.69E	SSN21	515329.61N 0001716.53E	N	-	0.6	-	RIGHT	-	-200	RNP1
DET 2D	003	RF	SSE05	515229.73N 0001924.75E	SSE22	515308.66N 0001710.14E	N	-	0.6	-	RIGHT	-	-200	RNP1
DET 2D	004	TF	SSS11	514654.90N 0001512.38E	-	-	N	204° (205.1°)	0.6	6.2	-	+3500	-250	RNP1
DET 2D	005	TF	SSS12	514553.58N 0001426.28E	-	-	N	204° (205.0°)	0.6	1.1	LEFT	-	-	RNP1
DET 2D	006	TF	SSS18	514045.12N 0001831.92E	-	-	N	153° (153.7°)	0.6	5.7	-	5000	-	RNP1
DET 2D	007	TF	NEPNA	512958.40N 0002656.78E	-	-	N	153° (153.7°)	0.6	12.0	-	-	-	RNP1
DET 2D	008	TF	DET	511814.41N 0003550.19E	-	-	N	154° (154.5°)	0.6	13.0	-	5000	-	RNP1

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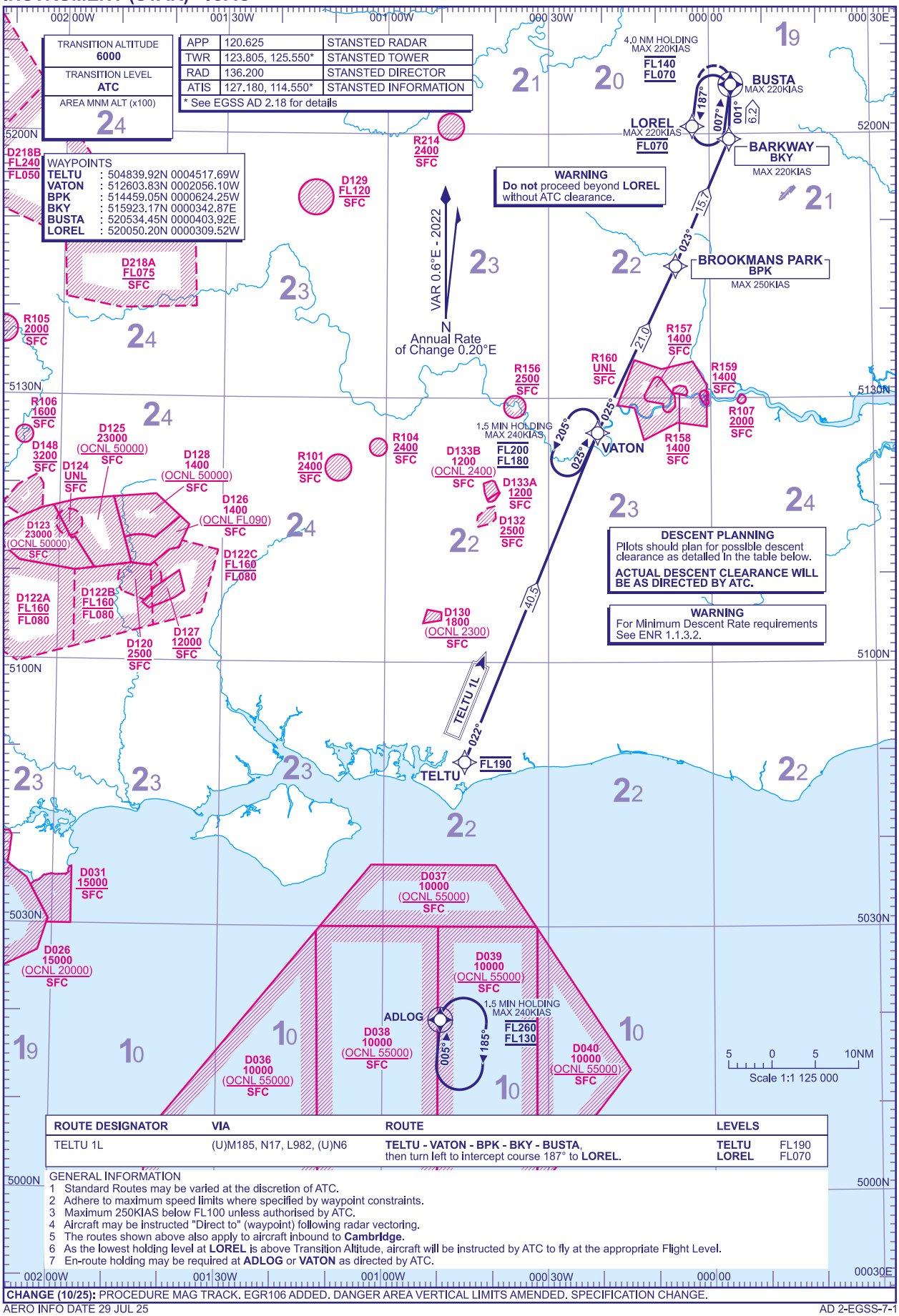
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED TELTU 1L



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
TELTU 1L	(U)M185, N17, L982, (U)N6	TELTU - VATON - BPK - BKY - BUSTA, then turn left to intercept course 187° to LOREL.	TELTU LOREL	FL190 FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 The routes shown above also apply to aircraft inbound to **Cambridge**.
6 As the lowest holding level at **LOREL** is above Transition Altitude, aircraft will be instructed by ATC to fly at the appropriate Flight Level.
7 En-route holding may be required at **ADLOG** or **VATON** as directed by ATC.

CHANGE (10/25): PROCEDURE MAG TRACK. EGR106 ADDED. DANGER AREA VERTICAL LIMITS AMENDED. SPECIFICATION CHANGE.

AERO INFO DATE 29 JUL 25

AD 2-EGSS-7-1

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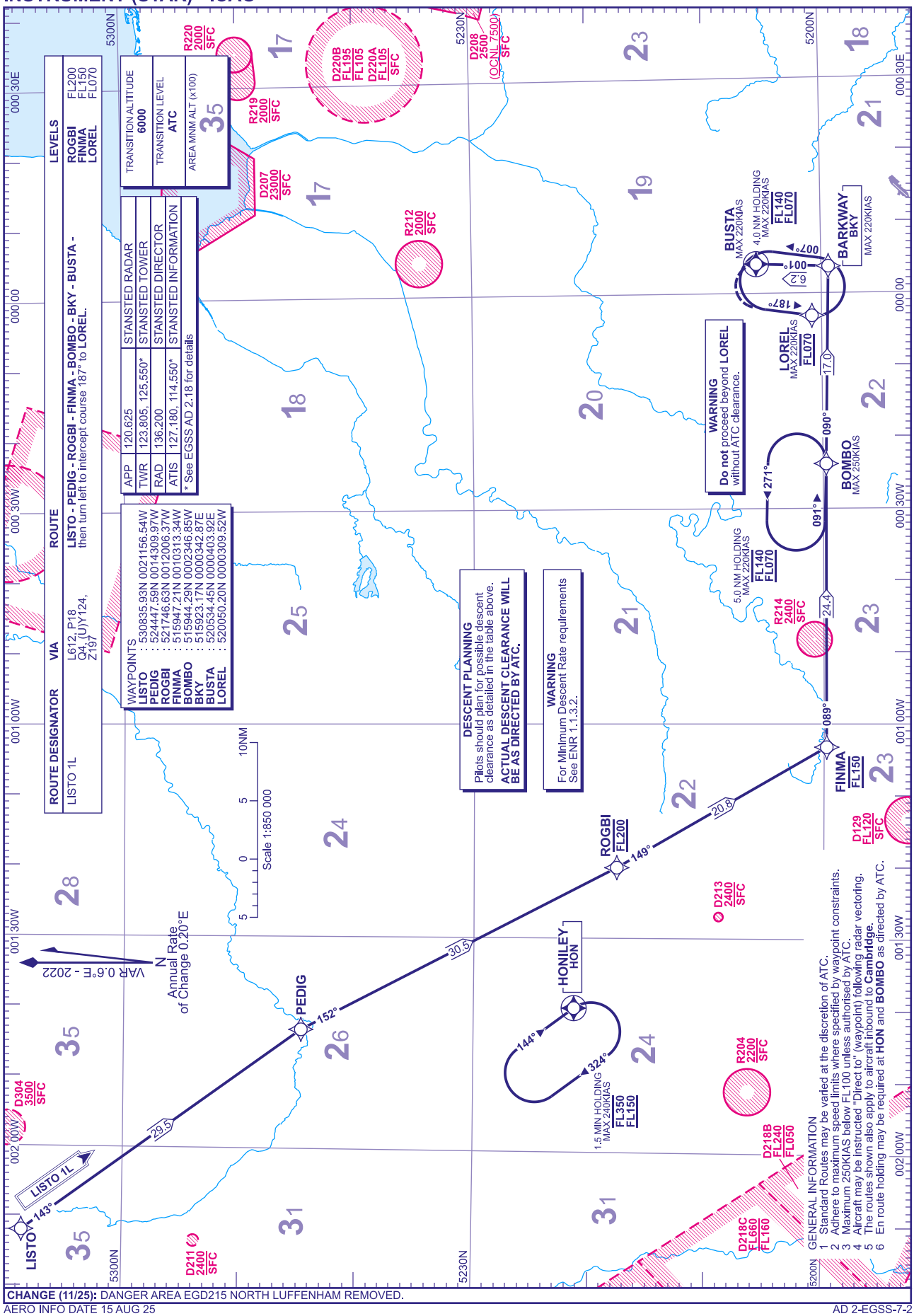
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED LISTO 1L



CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED.

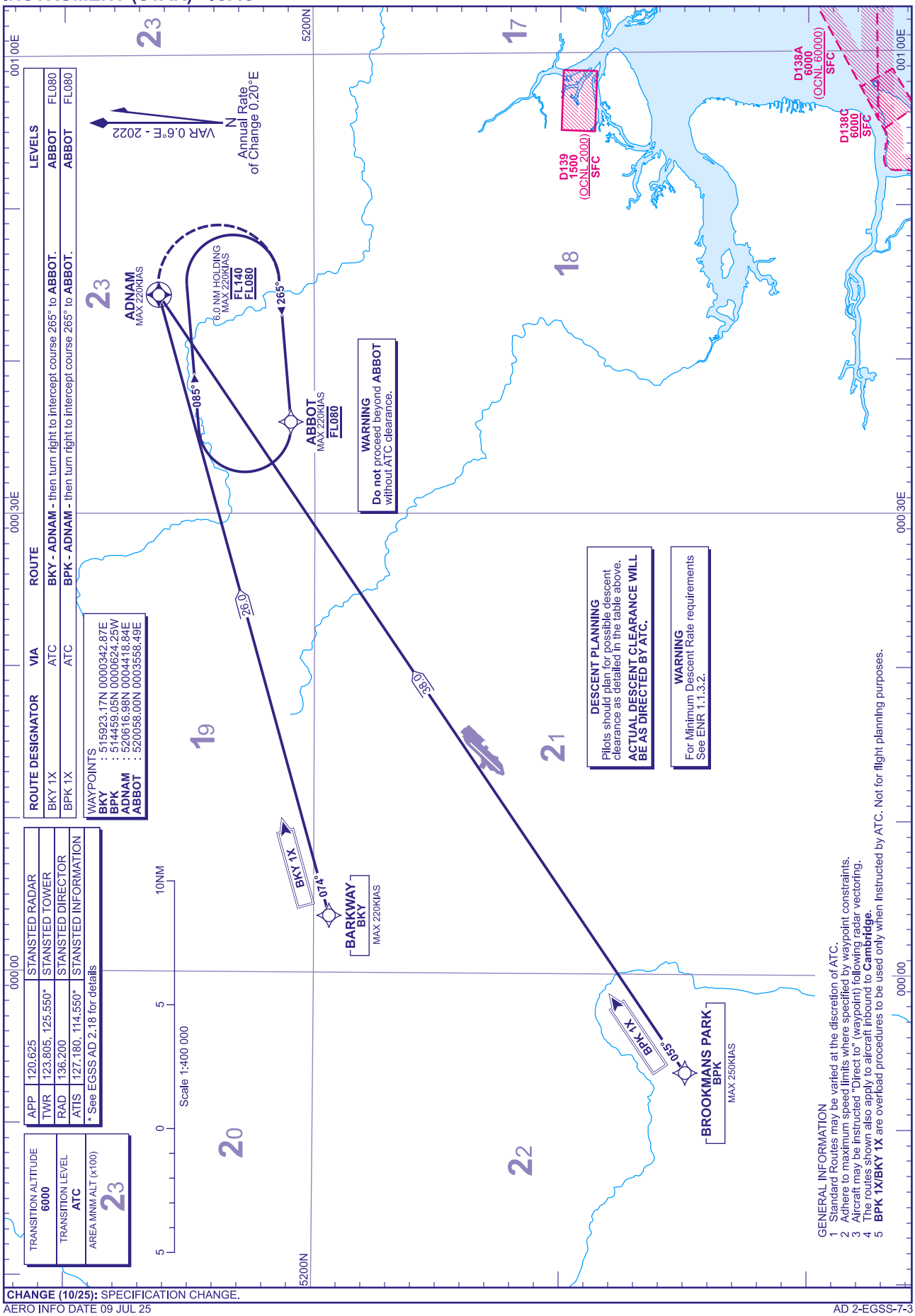
AERO INFO DATE 15 AUG 25

AD 2-EGSS-7-2

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
BKY 1X BPK 1X



CHANGE (10/25): SPECIFICATION CHANGE.

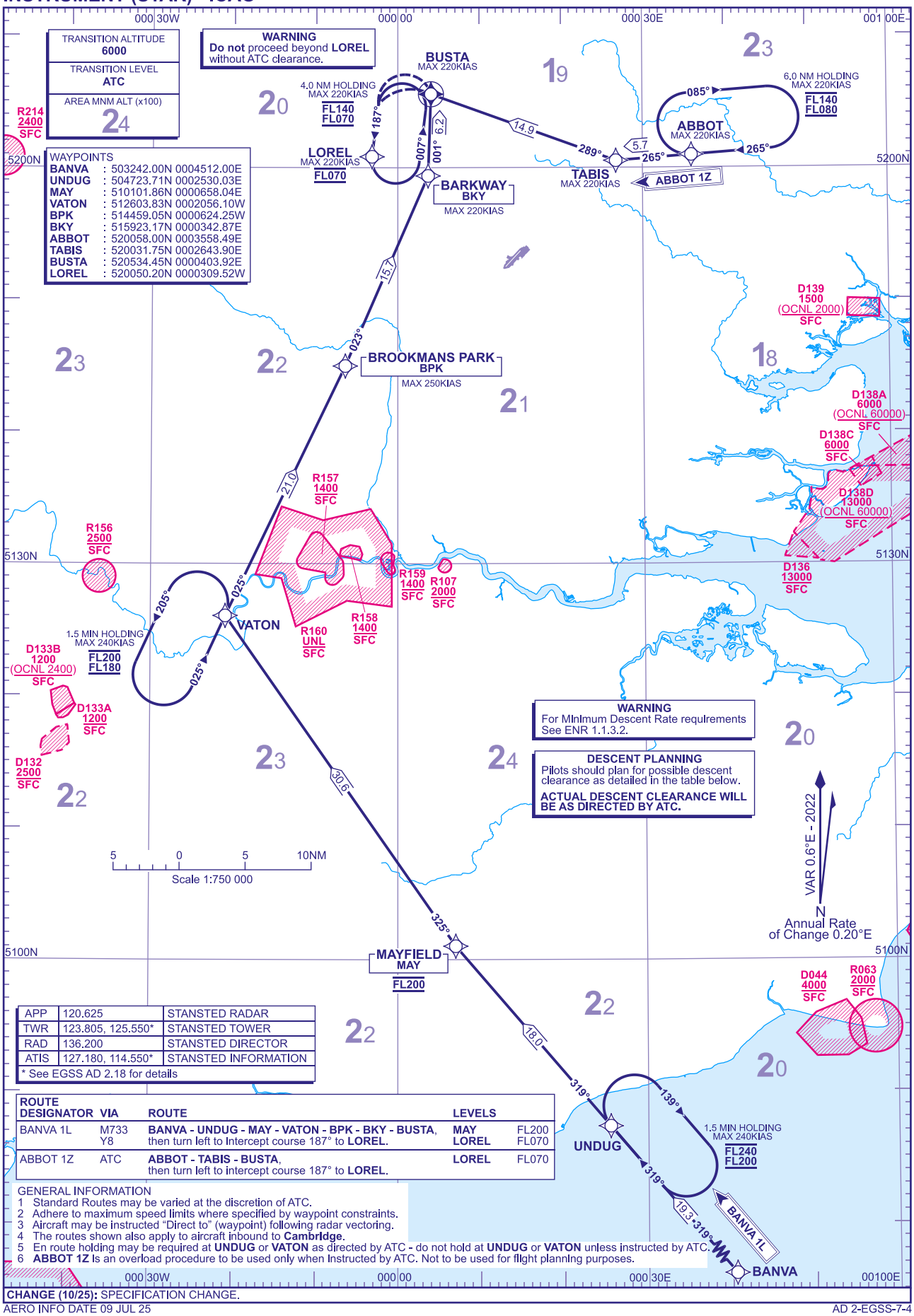
AERO INFO DATE 09 JUL 25

AD 2-EGSS-7-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED BANVA 1L ABBOT 1Z



APP	120.625	STANSTED RADAR
TWR	123.805, 125.550*	STANSTED TOWER
RAD	136.200	STANSTED DIRECTOR
ATIS	127.180, 114.550*	STANSTED INFORMATION

* See EGSS AD 2.18 for details

ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
BANVA 1L	M733 Y8	**BANVA - UNDUG - MAY - VATON - BPK - BKY - BUSTA**, then turn left to Intercept course 187° to **LOREL**.	**MAY** **LOREL**	FL200 FL070
ABBOT 1Z	ATC	**ABBOT - TABIS - BUSTA**, then turn left to intercept course 187° to **LOREL**.	**LOREL**	FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
4 The routes shown also apply to aircraft inbound to **Cambridge**.
5 En route holding may be required at **UNDUG** or **VATON** as directed by ATC - do not hold at **UNDUG** or **VATON** unless instructed by ATC.
6 **ABBOT 1Z** is an overload procedure to be used only when instructed by ATC. Not to be used for flight planning purposes.

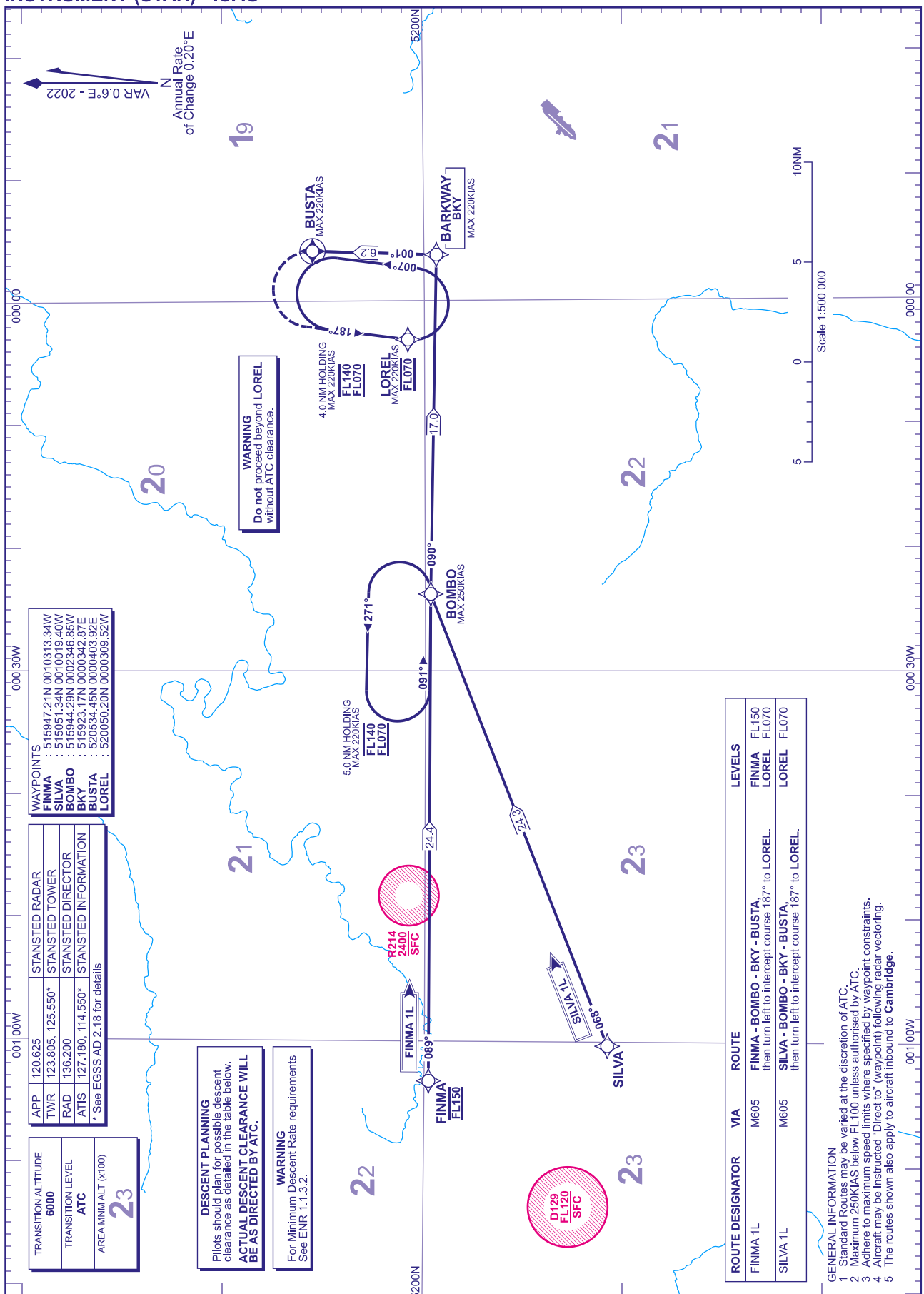
CHANGE (10/25): SPECIFICATION CHANGE.

AERO INFO DATE 09 JUL 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
FINMA 1L SILVA 1L



CHANGE (10/25): SPECIFICATION CHANGE.

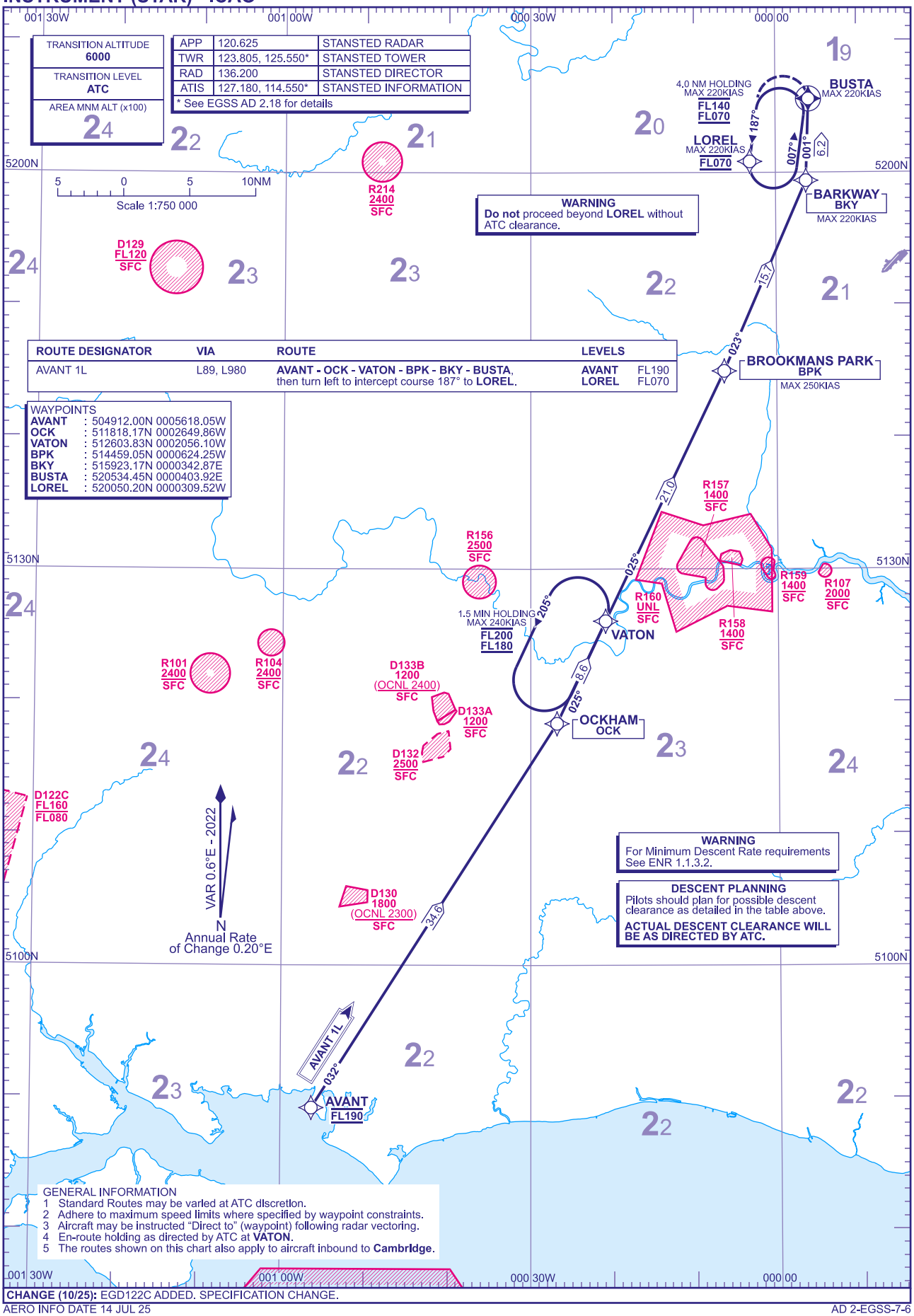
AERO INFO DATE 04 JUL 25

AD 2-EGSS-7-5

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED AVANT 1L



CHANGE (10/25): EGD122C ADDED. SPECIFICATION CHANGE.

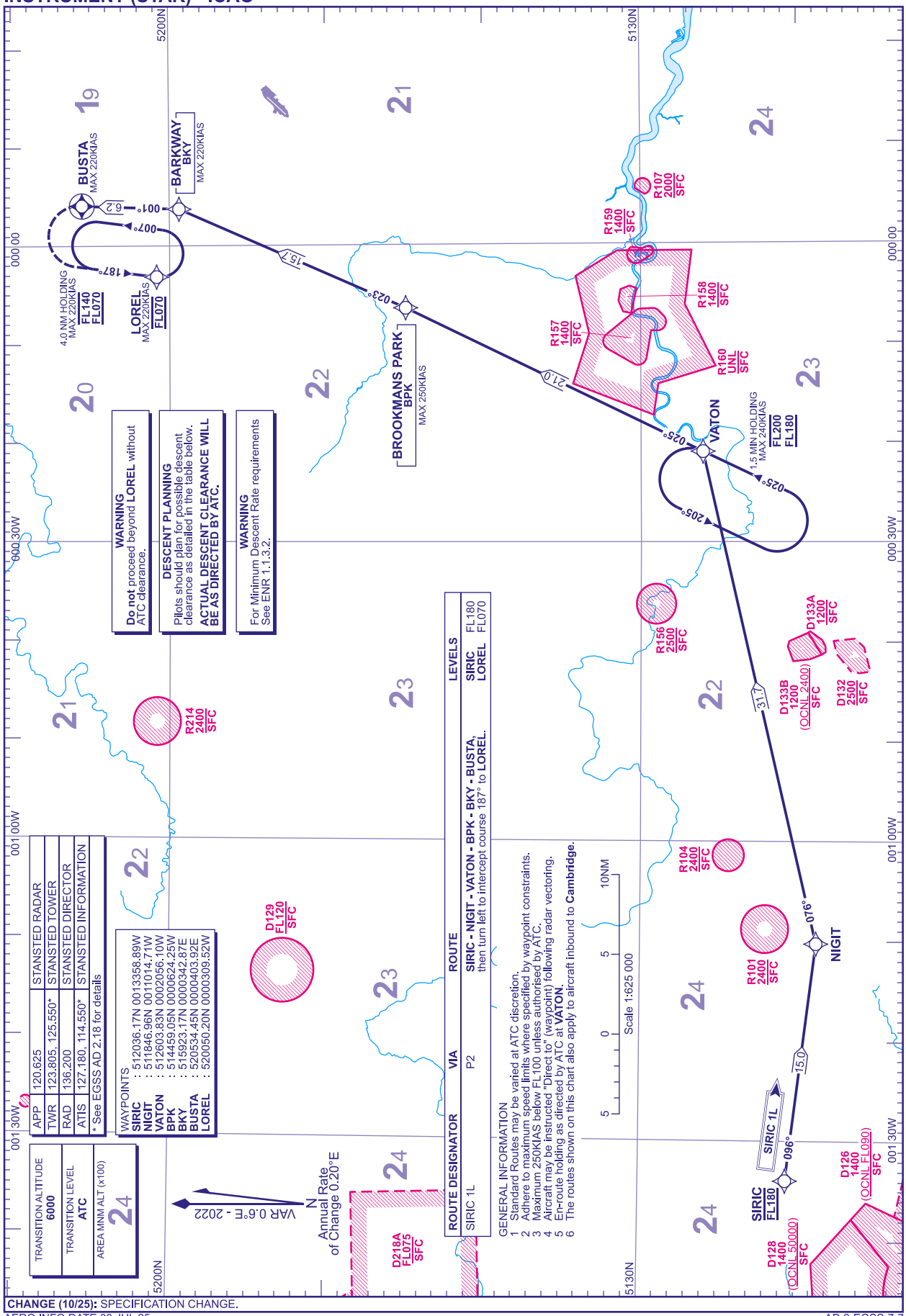
AERO INFO DATE 14 JUL 25

AD 2-EGSS-7-6

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON STANSTED SIRIC 1L



CHANGE (10/25): SPECIFICATION CHANGE.

AERO INFO DATE 08 JUL 25

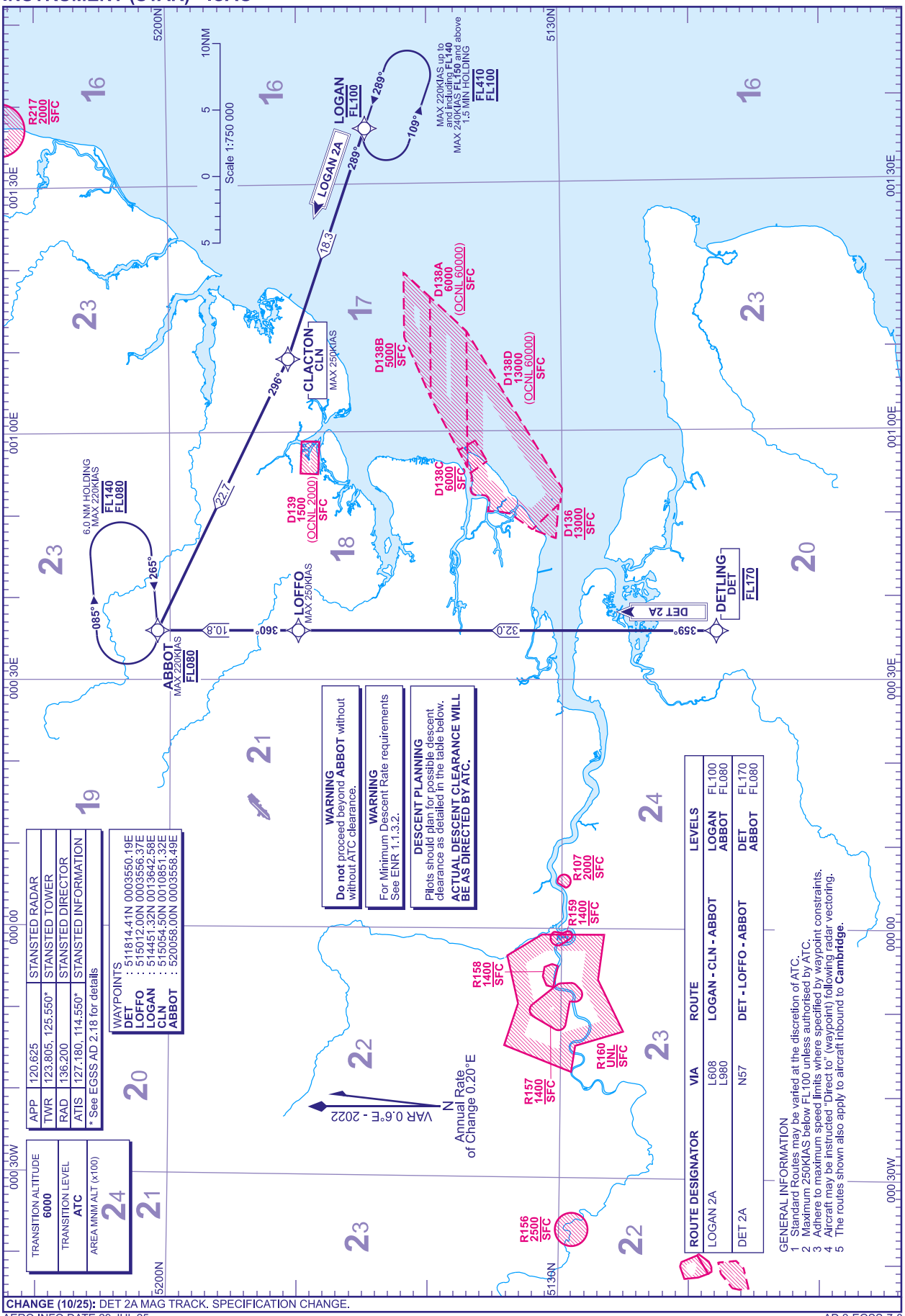
AD 2-EGSS-7-7

I

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

LONDON STANSTED
LOGAN 2A DET 2A



CHANGE (10/25): DET 2A MAG TRACK. SPECIFICATION CHANGE.

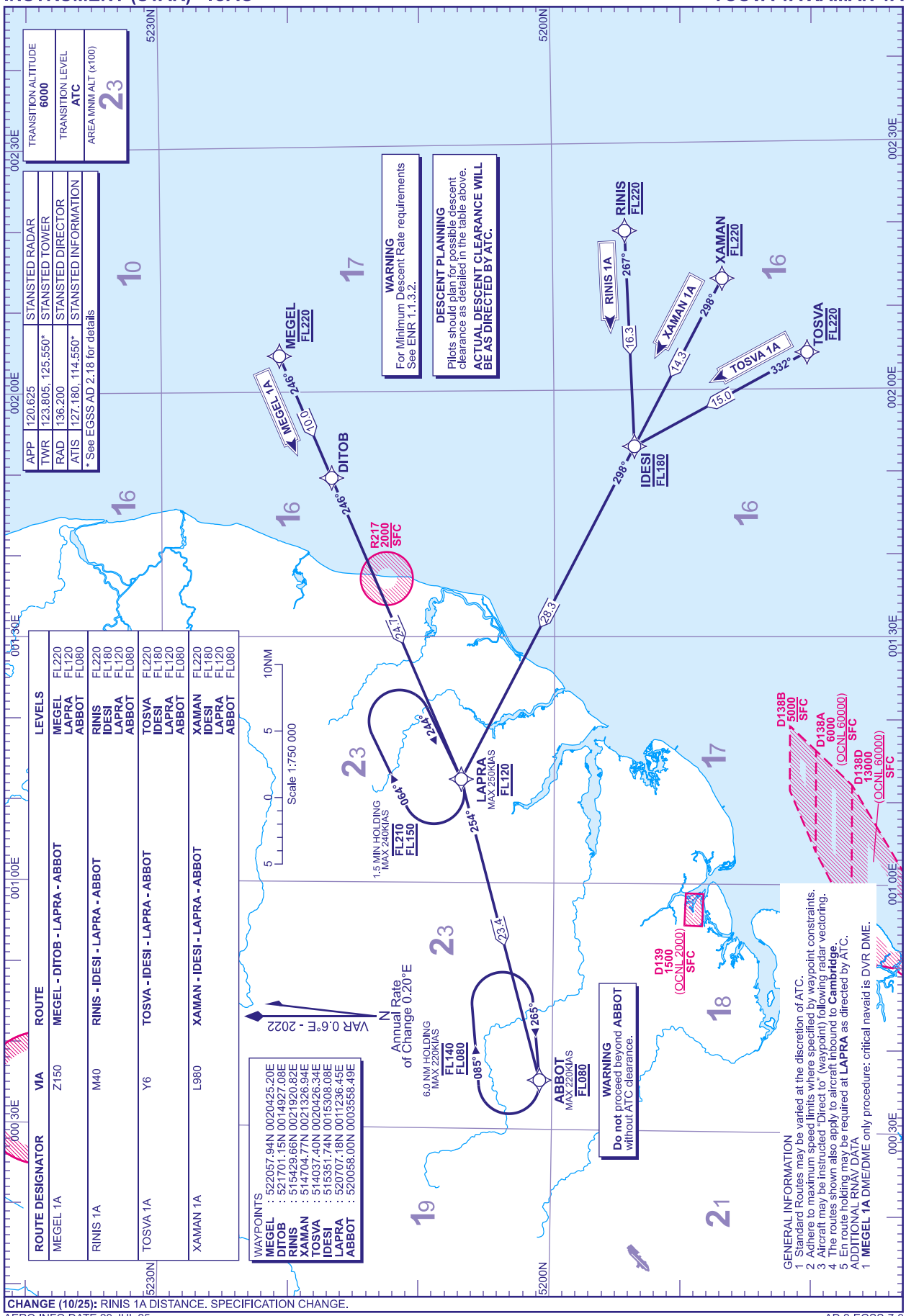
AERO INFO DATE 29 JUL 25

AD 2-EGSS-7-8

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON STANSTED
MEGEL 1A RINIS 1A
TOSVA 1A XAMAN 1A



Standard Instrument Arrival Coding Tables

LONDON STANSTED TELTU 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TELTU1L	001	IF	TELTU	504839.92N 0004517.69W	N	-	-	-	-	FL190	-	RNAV1
TELTU1L	002	TF	VATON	512603.83N 0002056.10W	N	022° (022.1°)	0.6	40.5	RIGHT	-	-	RNAV1
TELTU1L	003	TF	BPK	514459.05N 0000624.25W	N	025° (025.5°)	0.6	21.0	LEFT	-	-250	RNAV1
TELTU1L	004	TF	BKY	515923.17N 0000342.87E	N	023° (023.4°)	0.6	15.7	LEFT	-	-220	RNAV1
TELTU1L	005	TF	BUSTA	520534.45N 0000403.92E	Y	001° (002.0°)	0.6	6.2	LEFT	-	-220	RNAV1
TELTU1L	006	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV1

LONDON STANSTED LISTO 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LISTO1L	001	IF	LISTO	530835.93N 0021156.54W	N	-	-	-	-	-	-	RNAV5
LISTO1L	002	TF	PEDIG	524447.59N 0014309.97W	N	143° (143.7°)	0.6	29.5	RIGHT	-	-	RNAV5
LISTO1L	003	TF	ROGBI	521746.63N 0012006.37W	N	152° (152.3°)	0.6	30.5	LEFT	FL200	-	RNAV5
LISTO1L	004	TF	FINMA	515947.21N 0010313.34W	N	149° (149.9°)	0.6	20.8	LEFT	FL150	-	RNAV5
LISTO1L	005	TF	BOMBO	515944.29N 0002346.85W	N	089° (089.9°)	0.6	24.4	-	-	-250	RNAV5
LISTO1L	006	TF	BKY	515923.17N 0000342.87E	N	090° (091.0°)	0.6	17.0	LEFT	-	-220	RNAV5
LISTO1L	007	TF	BUSTA	520534.45N 0000403.92E	Y	001° (002.0°)	0.6	6.2	LEFT	-	-220	RNAV5
LISTO1L	008	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV5

LONDON STANSTED BKY 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BKY1X	001	IF	BKY	515923.17N 0000342.87E	N	-	-	-	-	-	-220	RNAV5
BKY1X	002	TF	ADNAM	520616.98N 0004418.84E	Y	074° (074.3°)	0.6	26.0	RIGHT	-	-220	RNAV5
BKY1X	003	CF	ABBOT	520058.00N 0003558.49E	N	265° (265.3°)	0.6	-	-	FL080	-220	RNAV5

LONDON STANSTED BPK 1X

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BPK1X	001	IF	BPK	514459.05N 0000624.25W	N	-	-	-	-	-	-250	RNAV5
BPK1X	002	TF	ADNAM	520616.98N 0004418.84E	Y	055° (055.5°)	0.6	38.0	RIGHT	-	-220	RNAV5
BPK1X	003	CF	ABBOT	520058.00N 0003558.49E	N	265° (265.3°)	0.6	-	-	FL080	-220	RNAV5

CHANGE (10/25): TELTU 1L MAG TRACK. SPECIFICATION CHANGE.
AERO INFO DATE 29 JUL 25

Standard Instrument Arrival Coding Tables

LONDON STANSTED BANVA 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BANVA1L	001	IF	BANVA	503242.00N 0004512.00E	N	-	-	-	-	-	-	RNAV5
BANVA1L	002	TF	UNDUG	504723.71N 0002530.03E	N	319° (319.7°)	0.6	19.3	-	-	-	RNAV5
BANVA1L	003	TF	MAY	510101.86N 0000658.04E	N	319° (319.4°)	0.6	18.0	RIGHT	FL200	-	RNAV5
BANVA1L	004	TF	VATON	512603.83N 0002056.10W	N	325° (325.2°)	0.6	30.6	RIGHT	-	-	RNAV5
BANVA1L	005	TF	BPK	514459.05N 0000624.25W	N	025° (025.5°)	0.6	21.0	LEFT	-	-250	RNAV5
BANVA1L	006	TF	BKY	515923.17N 0000342.87E	N	023° (023.4°)	0.6	15.7	LEFT	-	-220	RNAV5
BANVA1L	007	TF	BUSTA	520534.45N 0000403.92E	Y	001° (002.0°)	0.6	6.2	LEFT	-	-220	RNAV5
BANVA1L	008	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV5

LONDON STANSTED ABBOT 1Z

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ABBOT1Z	001	IF	ABBOT	520058.00N 0003558.49E	N	-	-	-	-	-	-220	RNAV5
ABBOT1Z	002	TF	TABIS	520031.75N 0002643.90E	N	265° (265.7°)	0.6	5.7	RIGHT	-	-220	RNAV5
ABBOT1Z	003	TF	BUSTA	520534.45N 0000403.92E	Y	289° (290.0°)	0.6	14.9	LEFT	-	-220	RNAV5
ABBOT1Z	004	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV5

LONDON STANSTED FINMA 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FINMA1L	001	IF	FINMA	515947.21N 0010313.34W	N	-	-	-	-	FL150	-	RNAV5
FINMA1L	002	TF	BOMBO	515944.29N 0002346.85W	N	089° (089.9°)	0.6	24.4	-	-	-250	RNAV5
FINMA1L	003	TF	BKY	515923.17N 0000342.87E	N	090° (091.0°)	0.6	17.0	LEFT	-	-220	RNAV5
FINMA1L	004	TF	BUSTA	520534.45N 0000403.92E	Y	001° (002.0°)	0.6	6.2	LEFT	-	-220	RNAV5
FINMA1L	005	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV5

CHANGE (10/25): SPECIFICATION CHANGE.
AERO INFO DATE 03 JUL 25

Standard Instrument Arrival Coding Tables

LONDON STANSTED SILVA 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SILVA1L	001	IF	SILVA	515051.34N 0010019.40W	N	-	-	-	-	-	-	RNAV5
SILVA1L	002	TF	BOMBO	515944.29N 0002346.85W	N	068° (068.3°)	0.6	24.3	RIGHT	-	-250	RNAV5
SILVA1L	003	TF	BKY	515923.17N 0000342.87E	N	090° (091.0°)	0.6	17.0	LEFT	-	-220	RNAV5
SILVA1L	004	TF	BUSTA	520534.45N 0000403.92E	Y	001° (002.0°)	0.6	6.2	LEFT	-	-220	RNAV5
SILVA1L	005	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV5

LONDON STANSTED AVANT 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AVANT1L	001	IF	AVANT	504912.00N 0005618.05W	N	-	-	-	-	FL190	-	RNAV5
AVANT1L	002	TF	OCK	511818.17N 0002649.86W	N	032° (032.4°)	0.6	34.6	LEFT	-	-	RNAV5
AVANT1L	003	TF	VATON	512603.83N 0002056.10W	N	025° (025.4°)	0.6	8.6	-	-	-	RNAV5
AVANT1L	004	TF	BPK	514459.05N 0000624.25W	N	025° (025.5°)	0.6	21.0	LEFT	-	-250	RNAV5
AVANT1L	005	TF	BKY	515923.17N 0000342.87E	N	023° (023.4°)	0.6	15.7	LEFT	-	-220	RNAV5
AVANT1L	006	TF	BUSTA	520534.45N 0000403.92E	Y	001° (002.0°)	0.6	6.2	LEFT	-	-220	RNAV5
AVANT1L	007	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV5

LONDON STANSTED SIRIC 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SIRIC1L	001	IF	SIRIC	512036.17N 0013358.89W	N	-	-	-	-	FL180	-	RNAV1
SIRIC1L	002	TF	NIGIT	511846.96N 0011014.71W	N	096° (096.8°)	0.6	15.0	LEFT	-	-	RNAV1
SIRIC1L	003	TF	VATON	512603.83N 0002056.10W	N	076° (076.4°)	0.6	31.7	LEFT	-	-	RNAV1
SIRIC1L	004	TF	BPK	514459.05N 0000624.25W	N	025° (025.5°)	0.6	21.0	-	-	-250	RNAV1
SIRIC1L	005	TF	BKY	515923.17N 0000342.87E	N	023° (023.4°)	0.6	15.7	LEFT	-	-220	RNAV1
SIRIC1L	006	TF	BUSTA	520534.45N 0000403.92E	Y	001° (002.0°)	0.6	6.2	LEFT	-	-220	RNAV1
SIRIC1L	007	CF	LOREL	520050.20N 0000309.52W	N	187° (187.2°)	0.6	-	-	FL070	-220	RNAV1

CHANGE (10/25): SPECIFICATION CHANGE.
AERO INFO DATE 03 JUL 25

Standard Instrument Arrival Coding Tables

LONDON STANSTED LOGAN 2A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOGAN2A	001	IF	LOGAN	514451.32N 0013642.58E	N	-	-	-	-	FL100	-	RNAV5
LOGAN2A	002	TF	CLN	515054.50N 0010851.32E	N	289° (289.5°)	0.6	18.3	RIGHT	-	-250	RNAV5
LOGAN2A	003	TF	ABBOT	520058.00N 0003558.49E	N	296° (296.5°)	0.6	22.7	-	FL080	-220	RNAV5

LONDON STANSTED DET 2A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DET2A	001	IF	DET	511814.41N 0003550.19E	N	-	-	-	-	FL170	-	RNAV5
DET2A	002	TF	LOFFO	515012.00N 0003556.37E	N	359° (000.1°)	0.6	32.0	-	-	-250	RNAV5
DET2A	003	TF	ABBOT	520058.00N 0003558.49E	N	360° (000.1°)	0.6	10.8	-	FL080	-220	RNAV5

LONDON STANSTED MEGEL 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MEGEL1A	001	IF	MEGEL	522057.94N 0020425.20E	N	-	-	-	-	FL220	-	RNAV5
MEGEL1A	002	TF	DITOB	521701.15N 0014927.08E	N	246° (246.8°)	0.6	10.0	-	-	-	RNAV5
MEGEL1A	003	TF	LAPRA	520707.18N 0011236.45E	N	246° (246.6°)	0.6	24.7	RIGHT	FL120	-250	RNAV5
MEGEL1A	004	TF	ABBOT	520058.00N 0003558.49E	N	254° (255.0°)	0.6	23.4	-	FL080	-220	RNAV5

LONDON STANSTED RINIS 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RINIS1A	001	IF	RINIS	515429.66N 0021920.82E	N	-	-	-	-	FL220	-	RNAV5
RINIS1A	002	TF	IDESI	515351.74N 0015308.08E	N	267° (267.9°)	0.6	16.3	RIGHT	FL180	-	RNAV5
RINIS1A	003	TF	LAPRA	520707.18N 0011236.45E	N	298° (298.2°)	0.6	28.3	LEFT	FL120	-250	RNAV5
RINIS1A	004	TF	ABBOT	520058.00N 0003558.49E	N	254° (255.0°)	0.6	23.4	-	FL080	-220	RNAV5

CHANGE (10/25): DET 2A MAG TRACK. RINIS 1A DISTANCE. SPECIFICATION CHANGE.
AERO INFO DATE 29 JUL 25

Standard Instrument Arrival Coding Tables

LONDON STANSTED TOSVA 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TOSVA1A	001	IF	TOSVA	514037.40N 0020426.34E	N	-	-	-	-	FL220	-	RNAV5
TOSVA1A	002	TF	IDESI	515351.74N 0015308.08E	N	332° (332.2°)	0.6	15.0	LEFT	FL180	-	RNAV5
TOSVA1A	003	TF	LAPRA	520707.18N 0011236.45E	N	298° (298.2°)	0.6	28.3	LEFT	FL120	-250	RNAV5
TOSVA1A	004	TF	ABBOT	520058.00N 0003558.49E	N	254° (255.0°)	0.6	23.4	-	FL080	-220	RNAV5

LONDON STANSTED XAMAN 1A

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
XAMAN1A	001	IF	XAMAN	514704.77N 0021326.94E	N	-	-	-	-	FL220	-	RNAV5
XAMAN1A	002	TF	IDESI	515351.74N 0015308.08E	N	298° (298.5°)	0.6	14.3	-	FL180	-	RNAV5
XAMAN1A	003	TF	LAPRA	520707.18N 0011236.45E	N	298° (298.2°)	0.6	28.3	LEFT	FL120	-250	RNAV5
XAMAN1A	004	TF	ABBOT	520058.00N 0003558.49E	N	254° (255.0°)	0.6	23.4	-	FL080	-220	RNAV5

CHANGE (10/25): SPECIFICATION CHANGE.
AERO INFO DATE 03 JUL 25

RNAV Hold Coding Tables

LONDON STANSTED ABBOT Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ABBOT	-	-	ABBOT	520058.00N 0003558.49E	Y	265° (265.3°)	0.6	6.0NM	RIGHT	-FL140 +FL080	-220	RNAV5

LONDON STANSTED ADLOG Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ADLOG	-	-	ADLOG	501925.00N 0004933.40W	Y	005° (005.3°)	0.6	1.5 MIN	RIGHT	-FL260 +FL130	-240	RNAV5

LONDON STANSTED BOMBO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BOMBO	-	-	BOMBO	515944.29N 0002346.85W	Y	091° (091.4°)	0.6	5.0NM	LEFT	-FL140 +FL070	-220	RNAV5

LONDON STANSTED HON Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HON	-	-	HON	522124.04N 0013949.41W	Y	144° (144.8°)	0.6	1.5 MIN	RIGHT	-FL350 +FL150	-240	RNAV5

LONDON STANSTED LAPRA Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAPRA	-	-	LAPRA	520707.18N 0011236.45E	Y	244° (245.1°)	0.6	1.5 MIN	RIGHT	-FL210 +FL150	-240	RNAV5

LONDON STANSTED LOGAN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOGAN	-	-	LOGAN	514451.32N 0013642.58E	Y	289° (289.5°)	0.6	1MIN up to FL140 1.5 MIN FL150+	LEFT	-FL410 +FL100	-220* -240**	RNAV5

* up to and including FL140
** FL150 and above

LONDON STANSTED LOREL Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOREL	-	-	LOREL	520050.20N 0000309.52W	Y	187° (187.2°)	0.6	4.0NM	LEFT	-FL140 +FL070	-220	RNAV1/ RNAV5

CHANGE (10/25): SPECIFICATION CHANGE.
AERO INFO DATE 03 JUL 25

RNAV Hold Coding Tables

LONDON STANSTED UNDUG Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
UNDUG	-	-	UNDUG	504723.71N 0002530.03E	Y	319° (319.2°)	0.6	1.5 MIN	RIGHT	-FL240 +FL200	-240	RNAV5

LONDON STANSTED VATON Hold

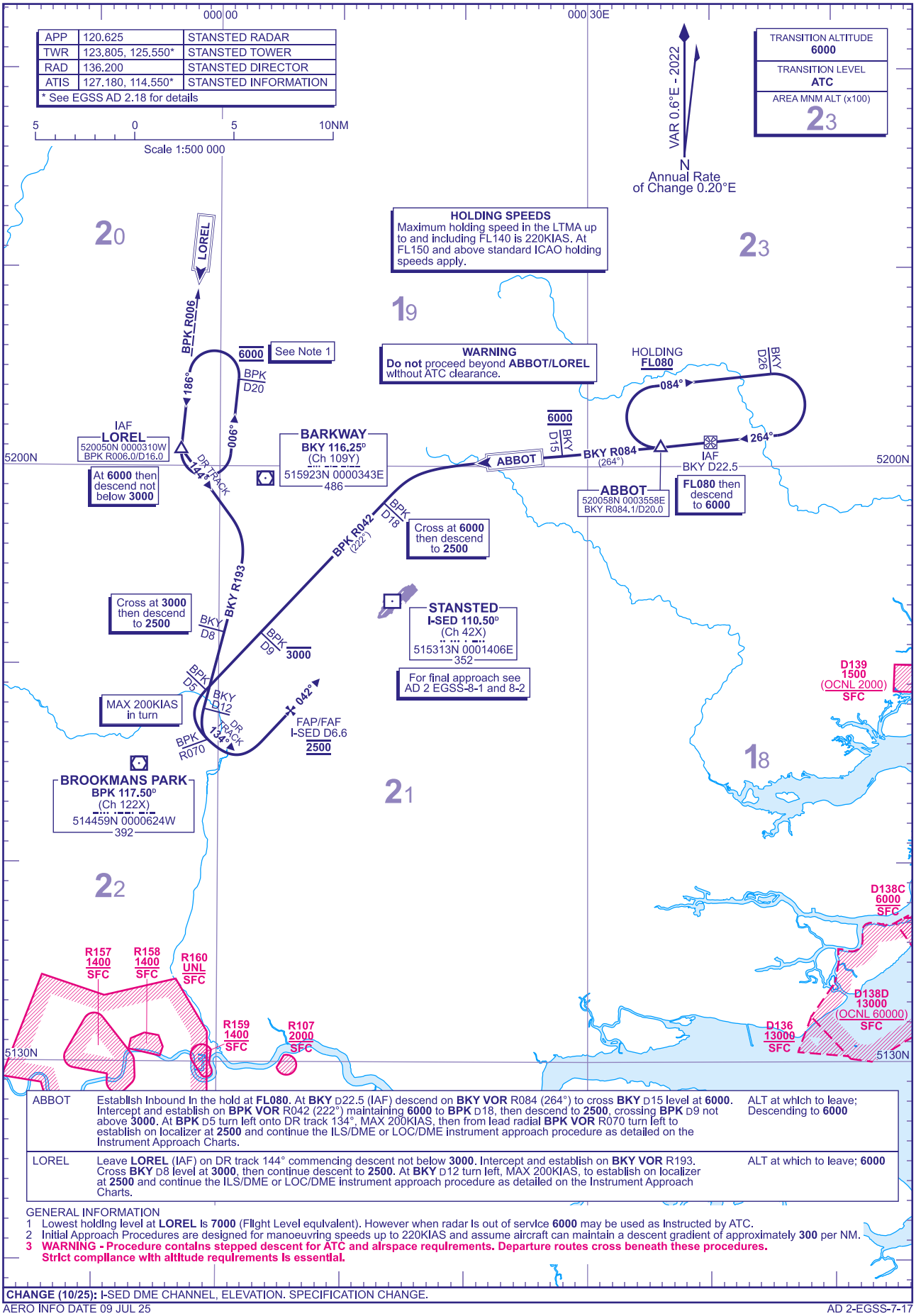
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
VATON	-	-	VATON	512603.83N 0002056.10W	Y	025° (025.5°)	0.6	1.5 MIN	LEFT	-FL200 +FL180	-240	RNAV5

CHANGE (10/25): SPECIFICATION CHANGE.
AERO INFO DATE 03 JUL 25

INITIAL APPROACH PROCEDURES
ILS RWY 04 Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON STANSTED



ABBOT	Establish inbound in the hold at **FL080**. At **BKY** D22.5 (IAF) descend on **BKY VOR** R084 (264°) to cross **BKY** D15 level at **6000**. Intercept and establish on **BPK VOR** R042 (222°) maintaining **6000** to **BPK** D18, then descend to **2500**, crossing **BPK** D9 not above **3000**. At **BPK** D5 turn left onto DR track 134°, MAX 200KIAS, then from lead radial **BPK VOR** R070 turn left to establish on localizer at **2500** and continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the Instrument Approach Charts.	ALT at which to leave; Descending to **6000**
LOREL	Leave **LOREL** (IAF) on DR track 144° commencing descent not below **3000**. Intercept and establish on **BKY VOR** R193. Cross **BKY** D8 level at **3000**, then continue descent to **2500**. At **BKY** D12 turn left, MAX 200KIAS, to establish on localizer at **2500** and continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the Instrument Approach Charts.	ALT at which to leave; **6000**

GENERAL INFORMATION
1 Lowest holding level at **LOREL** is **7000** (Flight Level equivalent). However when radar is out of service **6000** may be used as instructed by ATC.
2 Initial Approach Procedures are designed for manoeuvring speeds up to 220KIAS and assume aircraft can maintain a descent gradient of approximately **300** per NM.
3 **WARNING - Procedure contains stepped descent for ATC and airspace requirements. Departure routes cross beneath these procedures. Strict compliance with altitude requirements is essential.**

CHANGE (10/25): I-SED DME CHANNEL, ELEVATION. SPECIFICATION CHANGE.

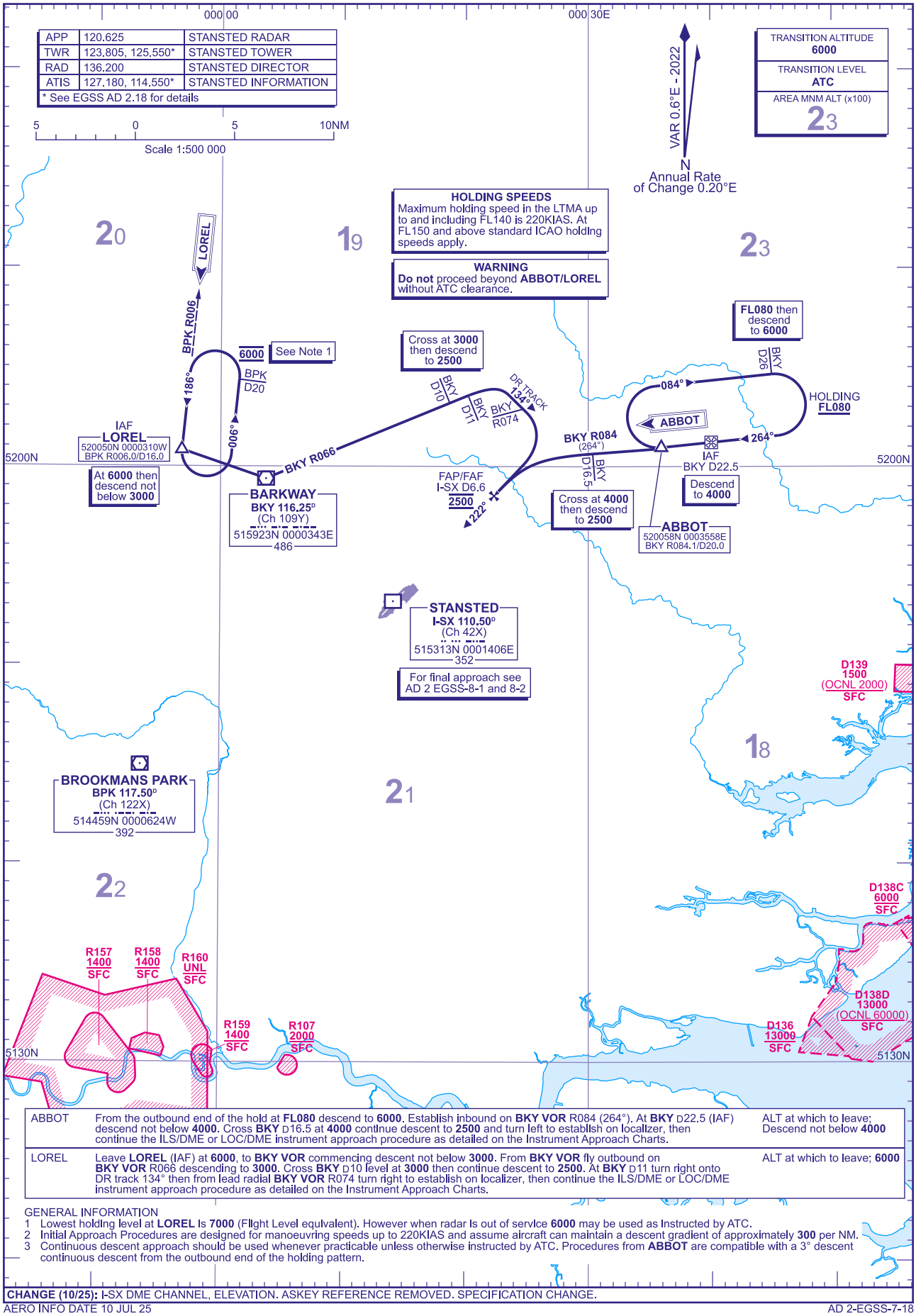
AERO INFO DATE 09 JUL 25

AD 2-EGSS-7-17

INITIAL APPROACH PROCEDURES
ILS RWY 22 Without Radar Control

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

LONDON STANSTED



ABBOT	From the outbound end of the hold at **FL080** descend to **6000**. Establish inbound on **BKY VOR** R084 (264°). At **BKY** D22.5 (IAF) descend not below **4000**. Cross **BKY** D16.5 at **4000** continue descent to **2500** and turn left to establish on localizer, then continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the Instrument Approach Charts.	ALT at which to leave; Descend not below **4000**
LOREL	Leave **LOREL** (IAF) at **6000**, to **BKY VOR** commencing descent not below **3000**. From **BKY VOR** fly outbound on **BKY VOR** R066 descending to **3000**. Cross **BKY** D10 level at **3000** then continue descent to **2500**. At **BKY** D11 turn right onto DR track 134° then from lead radial **BKY VOR** R074 turn right to establish on localizer, then continue the ILS/DME or LOC/DME instrument approach procedure as detailed on the Instrument Approach Charts.	ALT at which to leave; **6000**

GENERAL INFORMATION
1 Lowest holding level at **LOREL** is **7000** (Flight Level equivalent). However when radar is out of service **6000** may be used as instructed by ATC.
2 Initial Approach Procedures are designed for manoeuvring speeds up to 220KIAS and assume aircraft can maintain a descent gradient of approximately **300** per NM.
3 Continuous descent approach should be used whenever practicable unless otherwise instructed by ATC. Procedures from **ABBOT** are compatible with a 3° descent continuous descent from the outbound end of the holding pattern.

CHANGE (10/25): I-SX DME CHANNEL, ELEVATION. ASKEY REFERENCE REMOVED. SPECIFICATION CHANGE.

AERO INFO DATE 10 JUL 25

INSTRUMENT APPROACH CHART - ICAO

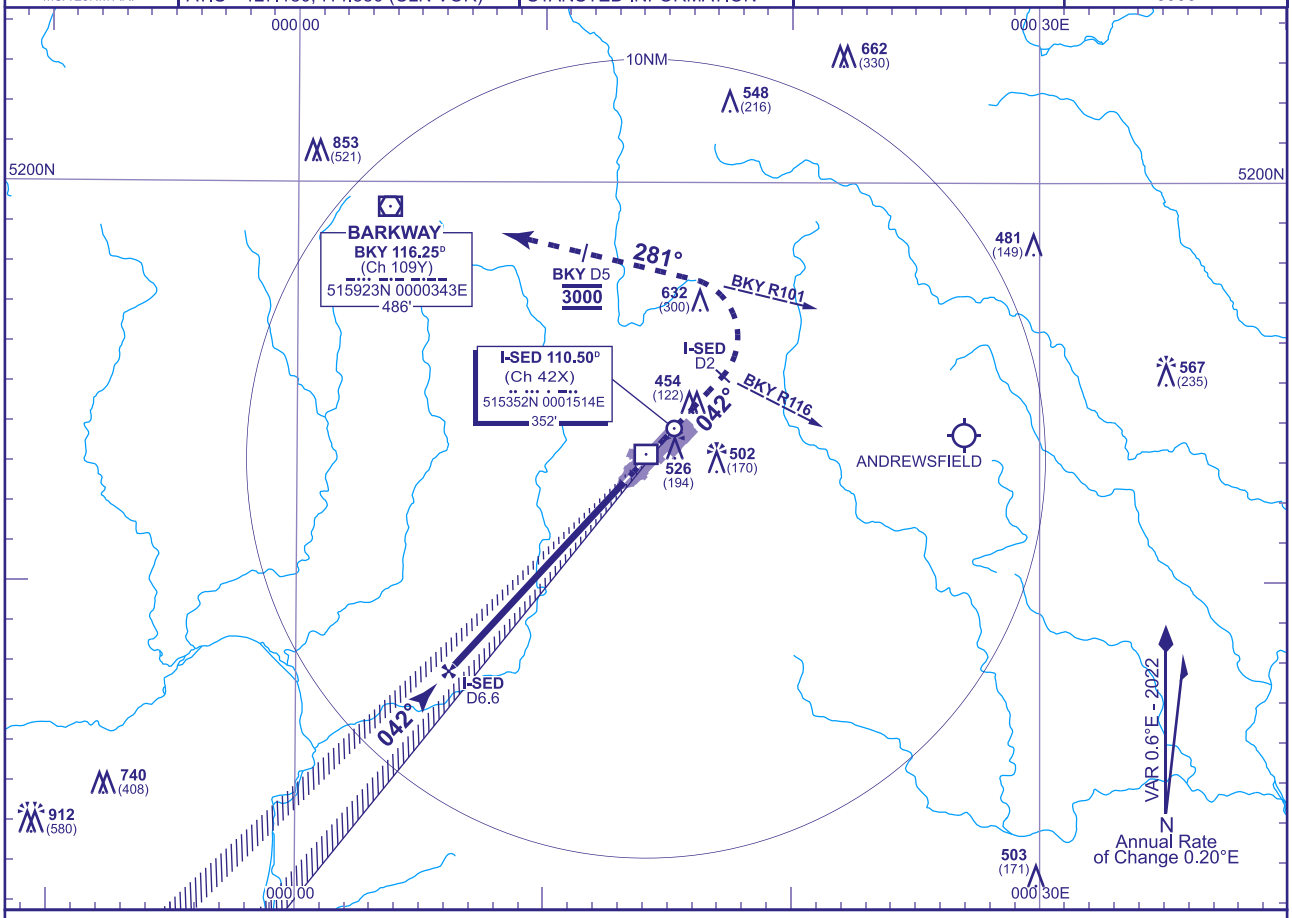
LONDON STANSTED
ILS/DME
RWY 04
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	120.625	STANSTED RADAR	
TWR	123.805, 125.550	STANSTED TOWER	
	121.730	STANSTED GROUND	
	121.955	STANSTED DELIVERY	
RAD	136.200	STANSTED DIRECTOR	
ATIS	127.180, 114.550 (CLN VOR)	STANSTED INFORMATION	

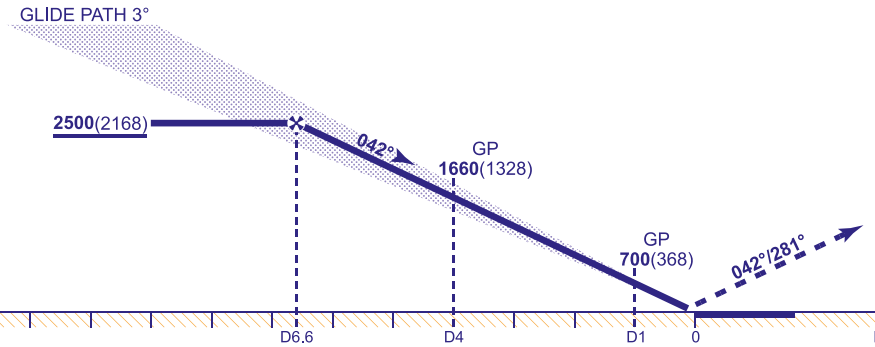
AD ELEVATION	348
THR ELEVATION	332
OBSTACLE ELEVATION	912 AMSL (580) (ABOVE THR)
BEARINGS ARE MAGNETIC	
TRANSITION ALTITUDE	6000



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-SED	6	5	4	3	2	1
ALT(HGT)	**2300**(1968)	**1980**(1648)	**1660**(1328)	**1340**(1008)	**1020**(688)	**700**(368)

RDH 53



Climb straight ahead **not above 3000**. At I-SED DME 2 (VOR BKY R116) turn left to establish on VOR BKY R101 (QDM 281°). Cross BKY DME 5 at **3000*** then continue to **BKY VOR** at **3000** or as directed.
* Missed approach climb gradient of 4.9% may be required to ensure CAS containment.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	CAT I	**482**(150)	**495**(163)	**509**(177)	**525**(193)		FT/MIN	850	740	640	530	420
	CAT II	**388**(56)	**400**(68)	**413**(81)	**430**(98)							
VM(C)OCA (OCH AAL)	Total Area	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)							

AIRCRAFT UNABLE TO RECEIVE DME I-SED
Advise ATC. Radar range will be provided at 4NM inbound.

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

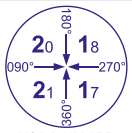
NOTE **1** For initial approaches see AD 2-EGSS-7-16.
2 MAX 185KIAS for MAP until established on BKY R101.

CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

AERO INFO DATE 25 NOV 24

INSTRUMENT APPROACH CHART - ICAO

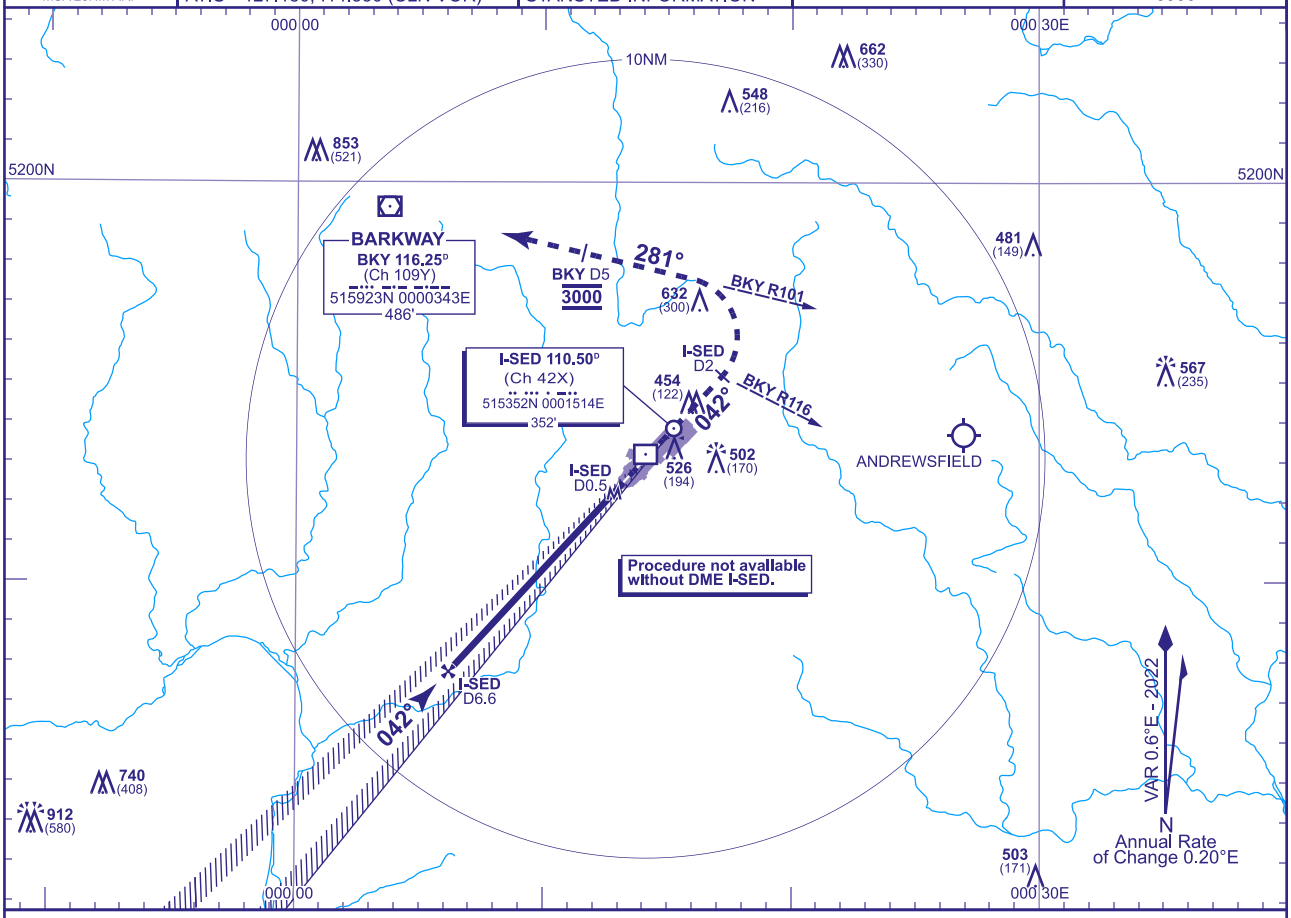
LONDON STANSTED
LOC/DME RWY 04
(ACFT CAT A,B,C,D)



MSA 25NM ARP

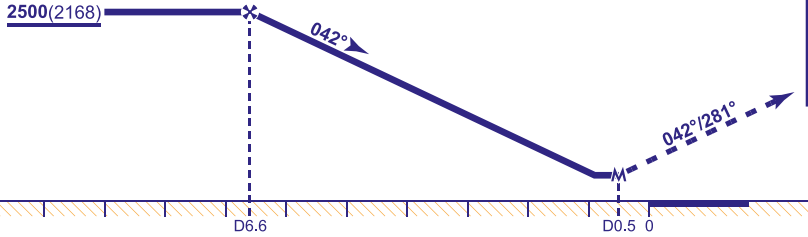
APP 120.625	STANSTED RADAR	
TWR 123.805, 125.550	STANSTED TOWER	
121.730	STANSTED GROUND	
121.955	STANSTED DELIVERY	
RAD 136.200	STANSTED DIRECTOR	
ATIS 127.180, 114.550 (CLN VOR)	STANSTED INFORMATION	

AD ELEVATION	**348**
THR ELEVATION	**332**
OBSTACLE ELEVATION	**912 AMSL** (580) (ABOVE THR)
BEARINGS ARE MAGNETIC	
TRANSITION ALTITUDE	**6000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-SED	6	5	4	3	2	1
ALT(HGT)	**2300**(1968)	**1980**(1648)	**1660**(1328)	**1340**(1008)	**1020**(688)	**700**(368)



MAPt I-SED DME 0.5

Climb straight ahead **not above 3000**. At **I-SED DME** 2 (**VOR BKY** R116) turn left to establish on **VOR BKY** R101 (QDM 281°). Cross **BKY DME** 5 at **3000*** then continue to **BKY VOR** at **3000** or as directed.
* Missed approach climb gradient of 4.9% may be required to ensure CAS containment.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**670**(338)	**670**(338)	**670**(338)	**670**(338)
VM(C)OCA (OCH AAL)	**Total Area**	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

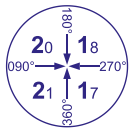
NOTE **1** For initial approaches see AD 2-EGSS-7-16.
2 MAX 185KIAS for MAP until established on BKY R101.

CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

AERO INFO DATE 25 NOV 24 AD 2-EGSS-8-2

INSTRUMENT APPROACH CHART - ICAO

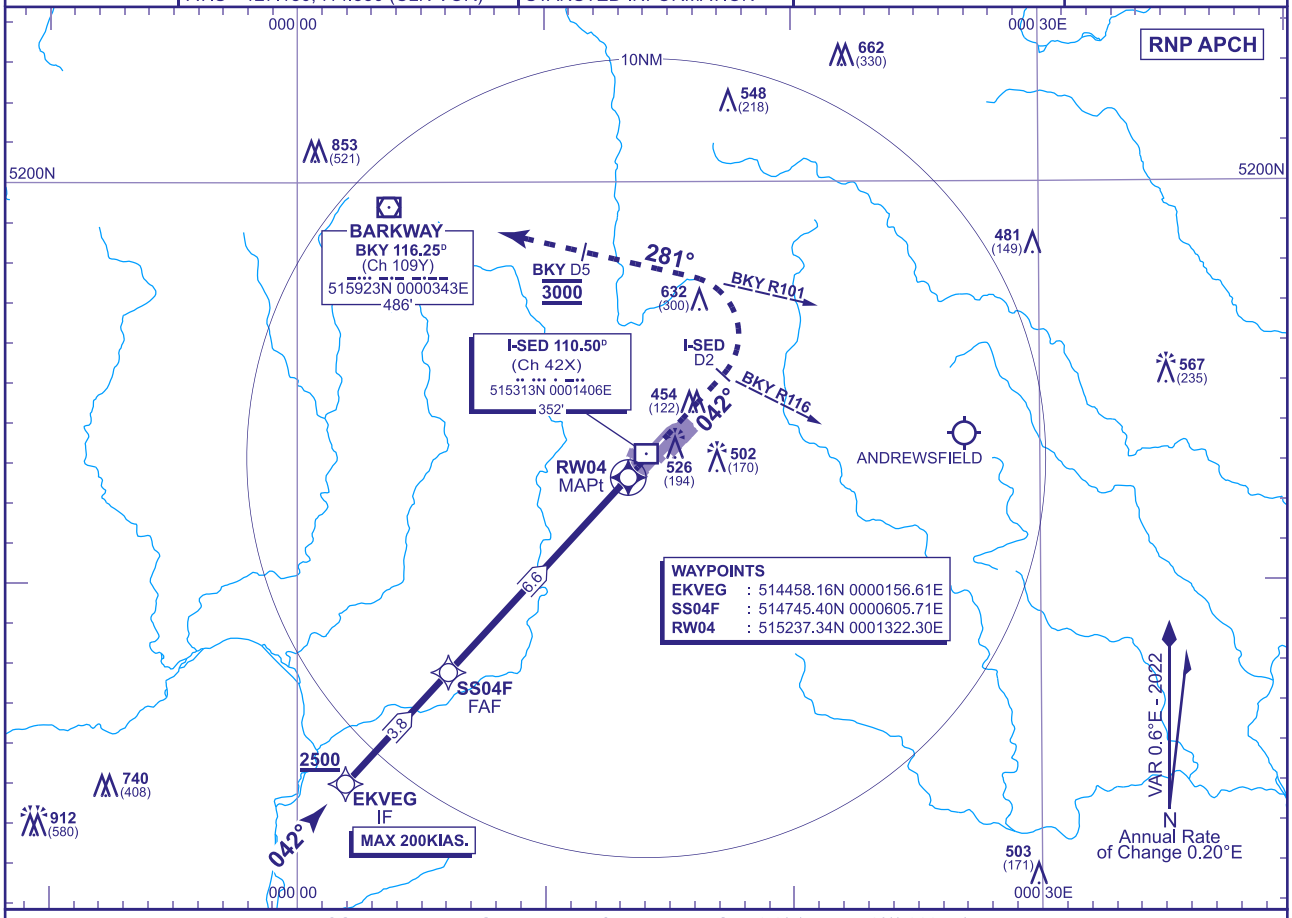
LONDON STANSTED
RNP Z
RWY 04
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	120.625	STANSTED RADAR
TWR	123.805, 125.550	STANSTED TOWER
	121.730	STANSTED GROUND
	121.955	STANSTED DELIVERY
RAD	136.200	STANSTED DIRECTOR
ATIS	127.180, 114.550 (CLN VOR)	STANSTED INFORMATION

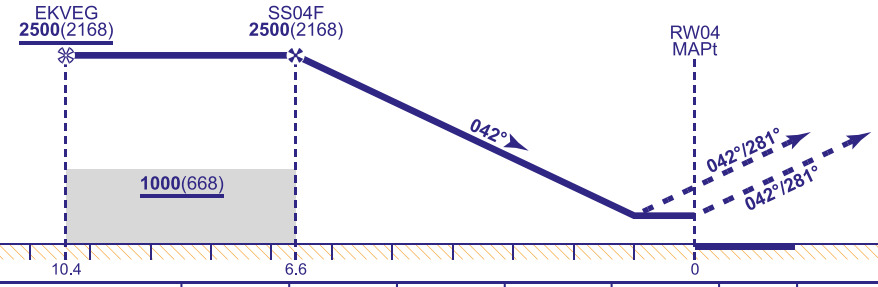
AD ELEVATION	348
THR ELEVATION	332
OBSTACLE ELEVATION	912 AMSL (580) (ABOVE THR)
BEARINGS ARE MAGNETIC	
MIN TEMP	-10°C
TRANSITION ALTITUDE	6000



RECOMMENDED PROFILE: VERTICAL PATH ANGLE 3.0° (LNAV 5.2%) 320FT/NM

NM to RW04	6	5	4	3	2	1
ALT(HGT)	**2300**(1968)	**1980**(1648)	**1660**(1328)	**1340**(1008)	**1020**(688)	**700**(368)

TCH 53



MAPt (LNAV): RW04

For missed approach resume conventional navigation at 800.

Climb straight ahead **not above 3000**. At **I-SED DME** 2 (**VOR BKY** R116) turn left to establish on **VOR BKY** R101 (QDM 281°). Cross **BKY DME** 5 at **3000*** then continue to **BKY VOR** at **3000** or as directed.

* Missed approach climb gradient of 5.7% may be required to ensure CAS containment.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**650**(318)	**650**(318)	**650**(318)	**650**(318)
	LNAV	**670**(338)	**670**(338)	**670**(338)	**670**(338)
VM(C)OCA (OCH AAL)	Total Area	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

NOTE 1 MAX 185KIAS for MAP until established on BKY R101.

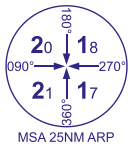
CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

AERO INFO DATE 25 NOV 24

I

INSTRUMENT APPROACH CHART - ICAO

LONDON STANSTED
RNP Y
RWY 04C
(ACFT CAT A,B,C,D)

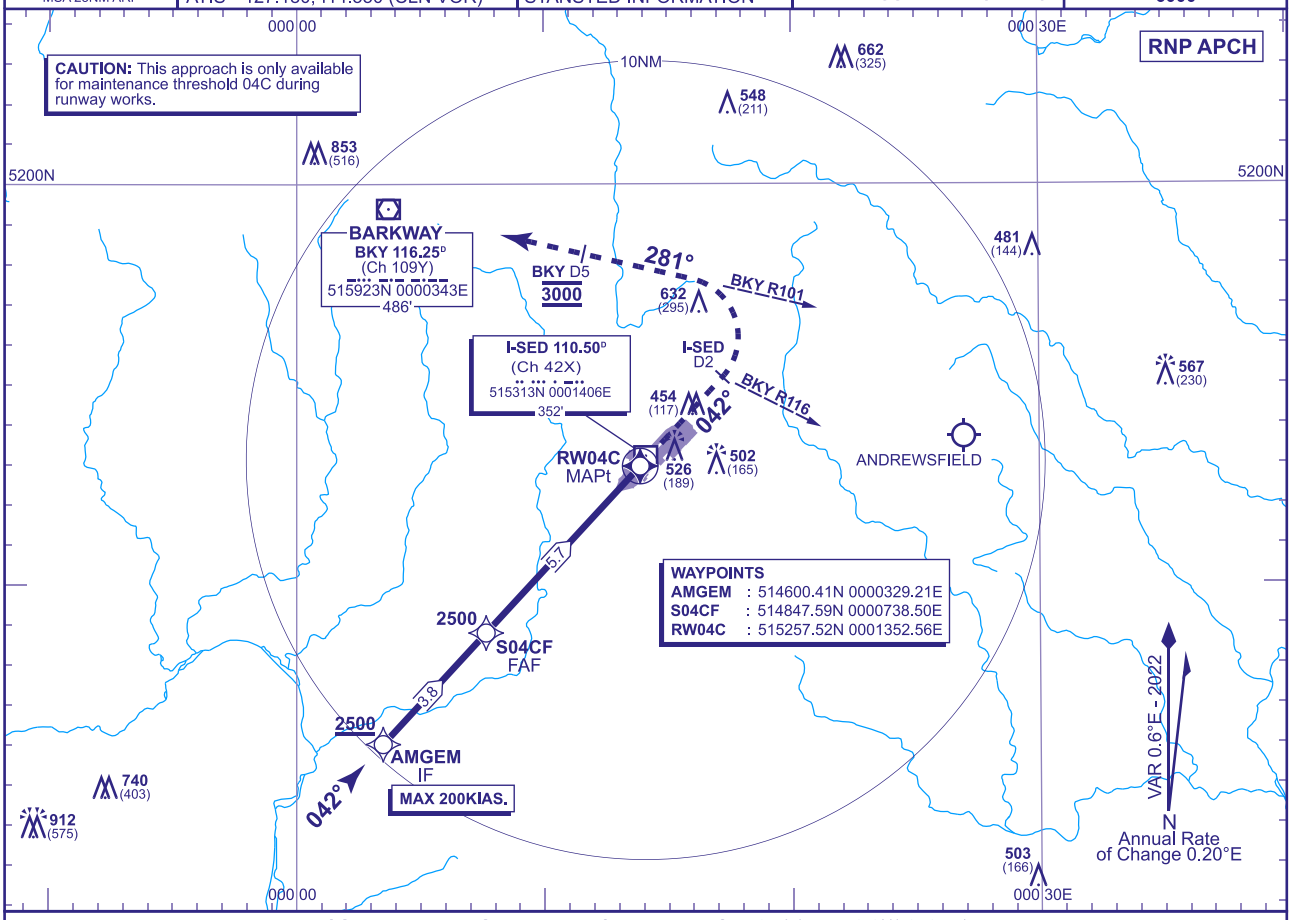


MSA 25NM ARP

APP 120.625	STANSTED RADAR	
TWR 123.805, 125.550	STANSTED TOWER	
121.730	STANSTED GROUND	
121.955	STANSTED DELIVERY	
RAD 136.200	STANSTED DIRECTOR	
ATIS 127.180, 114.550 (CLN VOR)	STANSTED INFORMATION	

AD ELEVATION	**348**
THR ELEVATION	**337**
OBSTACLE ELEVATION	**912 AMSL** (575) (ABOVE THR)
BEARINGS ARE MAGNETIC	

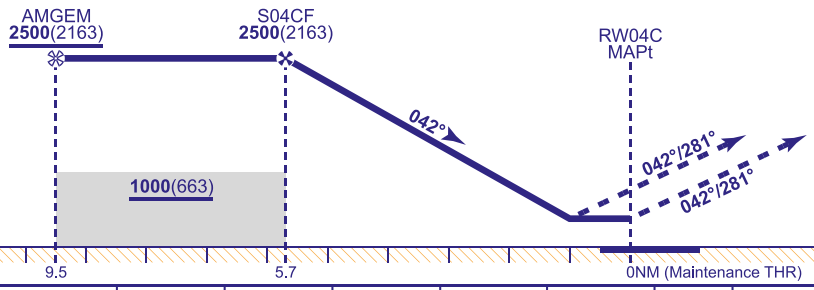
MIN TEMP **-10°C**
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE: VERTICAL PATH ANGLE 3.5° (LNAV 6.1%) 370FT/NM

NM to RW04C	5	4	3	2	1
ALT(HGT)	**2250**(1913)	**1870**(1533)	**1500**(1163)	**1130**(793)	**760**(423)

TCH 50



MAPt (LNAV): RW04C

For missed approach resume conventional navigation at 800.

Climb straight ahead **not above 3000**. At **I-SED DME** 2 (**VOR BKY** R116) turn left to establish on **VOR BKY** R101 (QDM 281°). Cross **BKY DME** 5 at **3000*** then continue to **BKY VOR** at **3000** or as directed.

* Missed approach climb gradient of 5.7% may be required to ensure CAS containment.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**660**(323)	**660**(323)	**660**(323)	**660**(323)
	LNAV	**710**(373)	**710**(373)	**710**(373)	**710**(373)
VM(C)OCA (OCH AAL)	Total Area	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

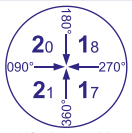
NOTE
1 MAX 185KIAS for MAP until established on BKY R101.
2 DME I-SED only to be used for missed approach.
3 Temperature at which VPA exceeds 3.5° is 14°C.

CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

AERO INFO DATE 25 NOV 24 AD 2-EGSS-8-4

INSTRUMENT APPROACH CHART - ICAO

LONDON STANSTED
ILS/DME
RWY 22
(ACFT CAT A,B,C,D)

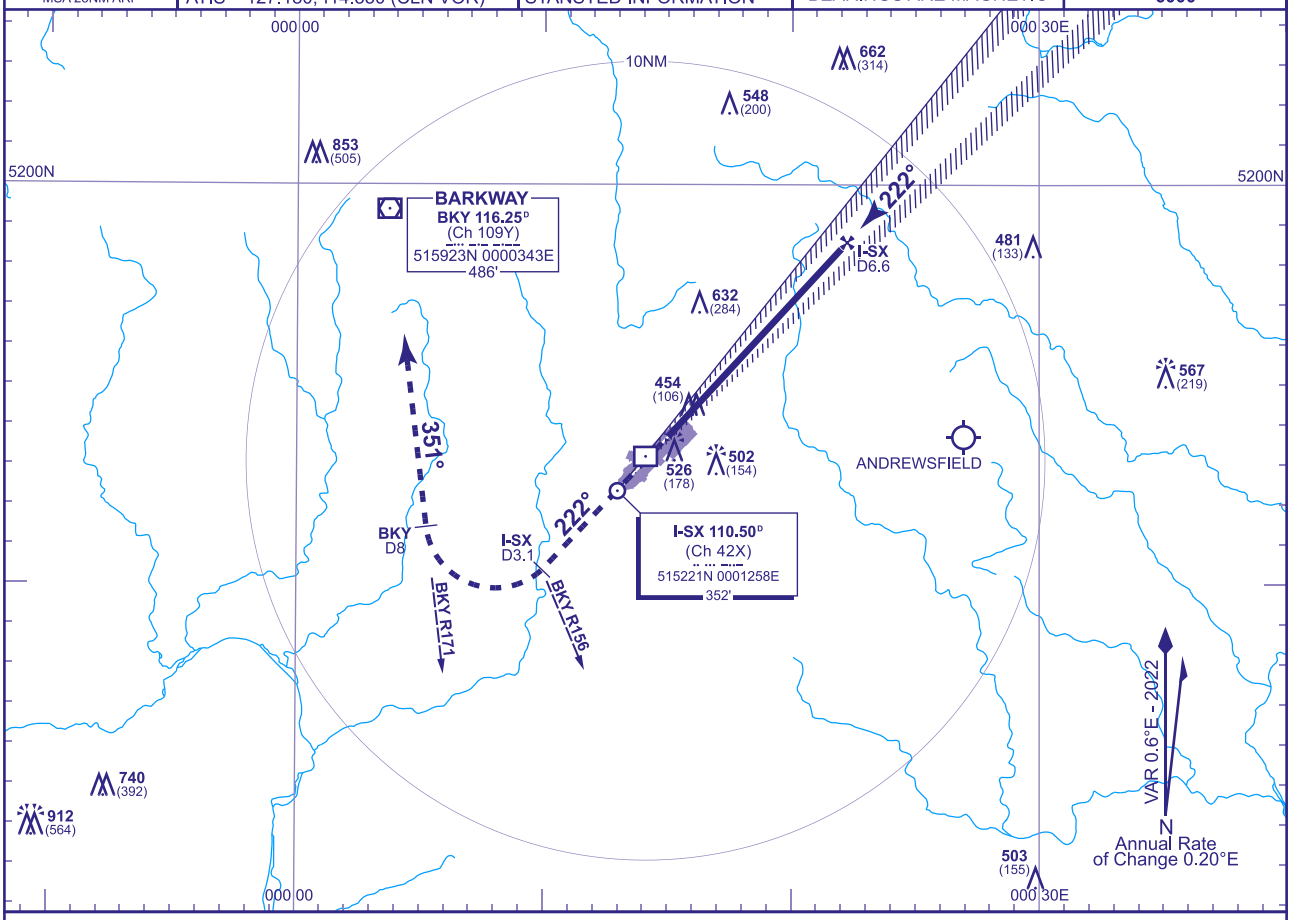


MSA 25NM ARP

APP	120.625	STANSTED RADAR
TWR	123.805, 125.550	STANSTED TOWER
	121.730	STANSTED GROUND
	121.955	STANSTED DELIVERY
RAD	136.200	STANSTED DIRECTOR
ATIS	127.180, 114.550 (CLN VOR)	STANSTED INFORMATION

AD ELEVATION	348
THR ELEVATION	348
OBSTACLE ELEVATION	912 AMSL (564) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

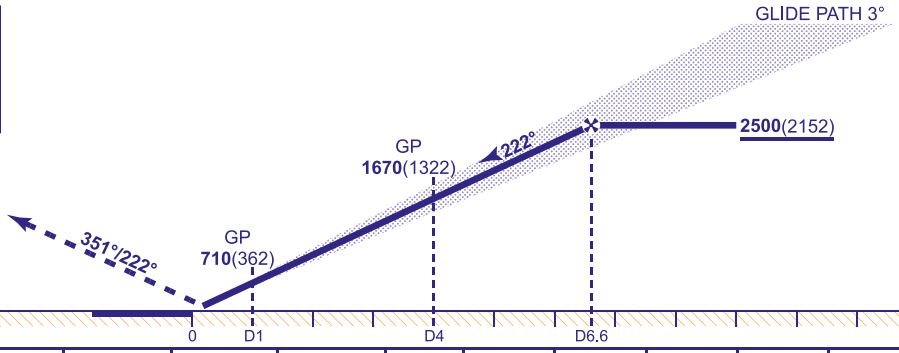


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-SX	6	5	4	3	2	1
ALT(HGT)	**2310**(1962)	**1990**(1642)	**1670**(1322)	**1350**(1002)	**1030**(682)	**710**(362)

RDH 49

Climb straight ahead **not above 3000**. At **I-SX DME** 3.1 (**VOR BKY** R156) turn right to establish on **VOR BKY** R171 (QDM 351°) by **BKY DME** 8 continuing climb as necessary to **BKY VOR** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**498**(150)	**508**(160)	**520**(172)	**533**(185)
	CAT II	**409**(61)	**420**(72)	**433**(85)	**447**(99)
VM(C)OCA (OCH AAL)	Total Area	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-SX
Advise ATC. A radar range will be provided at 4NM inbound.

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

NOTE **1** For initial approaches see AD 2-EGSS-7-17.
2 MAX 185KIAS for MAP until established on BKY R171.

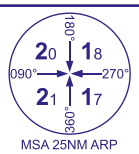
CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

AERO INFO DATE 25 NOV 24

I

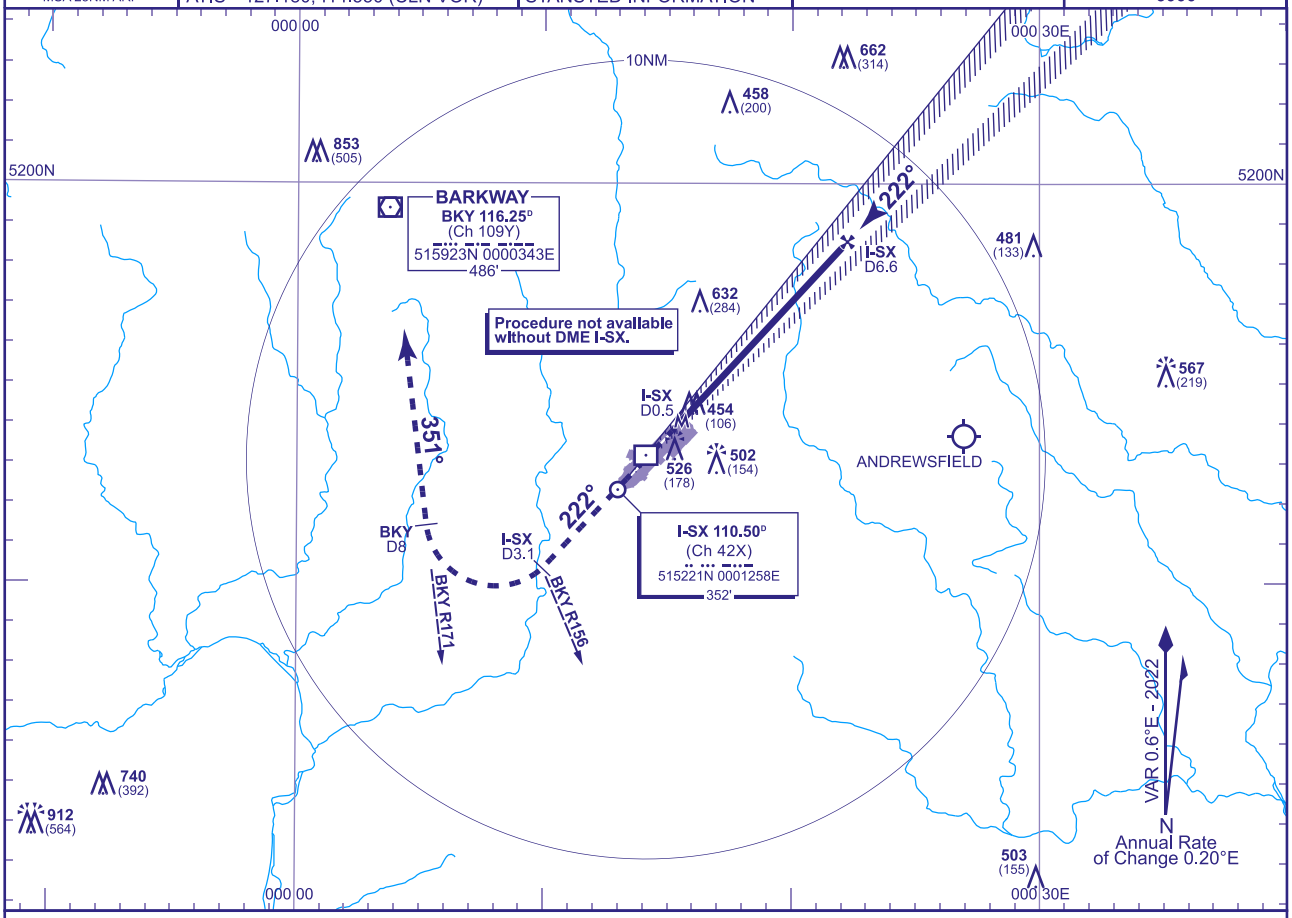
INSTRUMENT APPROACH CHART - ICAO

LONDON STANSTED
LOC/DME RWY 22
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP	120.625	STANSTED RADAR	AD ELEVATION	348	TRANSITION ALTITUDE 6000
TWR	123.805, 125.550	STANSTED TOWER	THR ELEVATION	348	
	121.730	STANSTED GROUND	OBSTACLE ELEVATION 912 AMSL (564) (ABOVE THR)		
	121.955	STANSTED DELIVERY			
RAD	136.200	STANSTED DIRECTOR			
ATIS	127.180, 114.550 (CLN VOR)	STANSTED INFORMATION	BEARINGS ARE MAGNETIC		

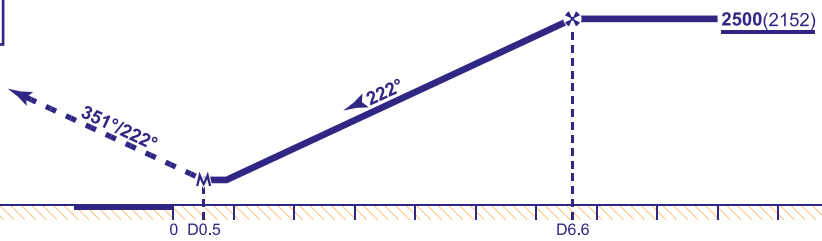


RECOMMENDED PROFILE Gradient 5.24%, 319FT/NM

DME I-SX	6	5	4	3	2
ALT(HGT)	**2310**(1962)	**1990**(1642)	**1670**(1322)	**1350**(1002)	**1030**(682)

MAPt I-SX DME 0.5 inbound

Climb straight ahead **not above 3000**. At **I-SX DME** 3.1 (**VOR BKY** R156) turn right to establish on **VOR BKY** R171 (QDM 351°) by **BKY DME** 8 continuing climb as necessary to **BKY VOR** at **3000** or as directed.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**740**(392)	**740**(392)	**740**(392)	**740**(392)
VM(C)OCA (OCH AAL)	**Total Area**	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

NOTE **1** For initial approaches see AD 2-EGSS-7-17.
2 MAX 185KIAS for MAP until established on BKY R171.

CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

AERO INFO DATE 25 NOV 24

INSTRUMENT APPROACH CHART - ICAO

LONDON STANSTED
RNP Z
RWY 22
(ACFT CAT A,B,C,D)

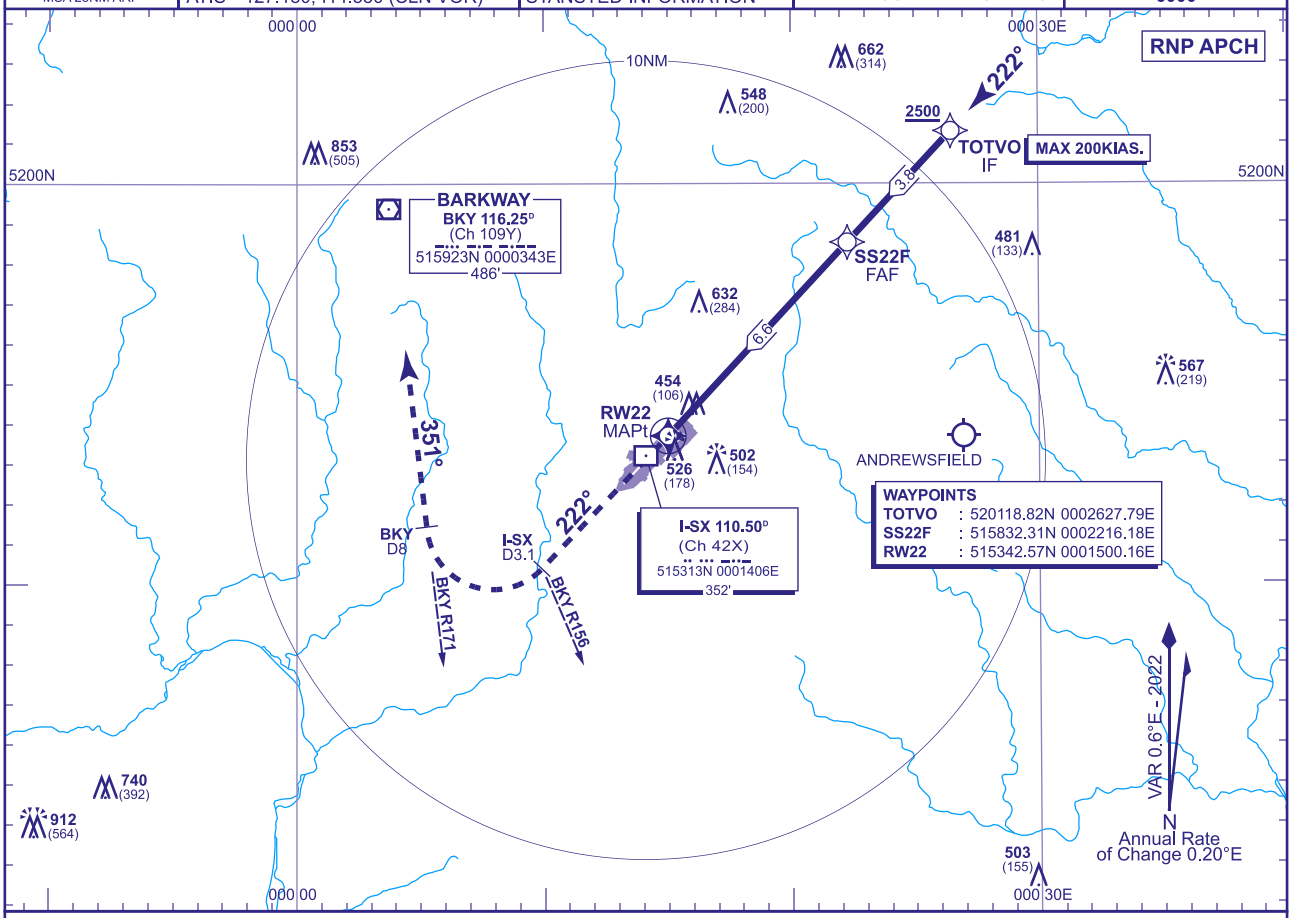


MSA 25NM ARP

APP	120.625	STANSTED RADAR
TWR	123.805, 125.550	STANSTED TOWER
	121.730	STANSTED GROUND
	121.955	STANSTED DELIVERY
RAD	136.200	STANSTED DIRECTOR
ATIS	127.180, 114.550 (CLN VOR)	STANSTED INFORMATION

AD ELEVATION	348
THR ELEVATION	348
OBSTACLE ELEVATION	912 AMSL (564) (ABOVE THR)
BEARINGS ARE MAGNETIC	

MIN TEMP **-10°C**
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE: VERTICAL PATH ANGLE 3.0° (LNAV 5.2%) 320FT/NM

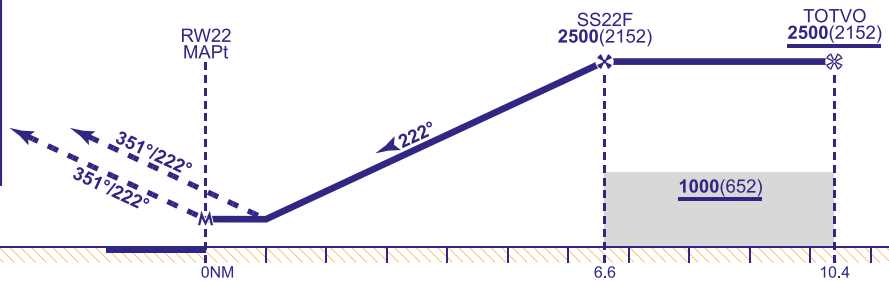
NM to RW22	6	5	4	3	2	1
ALT(HGT)	**2310**(1962)	**1990**(1642)	**1670**(1322)	**1350**(1002)	**1030**(682)	**710**(362)

TCH 49

MAPt (LNAV): RW22

For missed approach resume conventional navigation at 800.

Climb straight ahead **not above 3000**. At **I-SX DME** 3.1 (**VOR BKY** R156) turn right to establish on **VOR BKY** R171 (QDM 351°) by **BKY DME** 8 continuing climb as necessary to **BKY VOR** at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**710**(362)	**710**(362)	**710**(362)	**710**(362)
	LNAV	**770**(422)	**770**(422)	**770**(422)	**770**(422)
VM(C)OCA (OCH AAL)	Total Area	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

NOTE 1 MAX 185KIAS for MAP until established on BKY R171.

CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

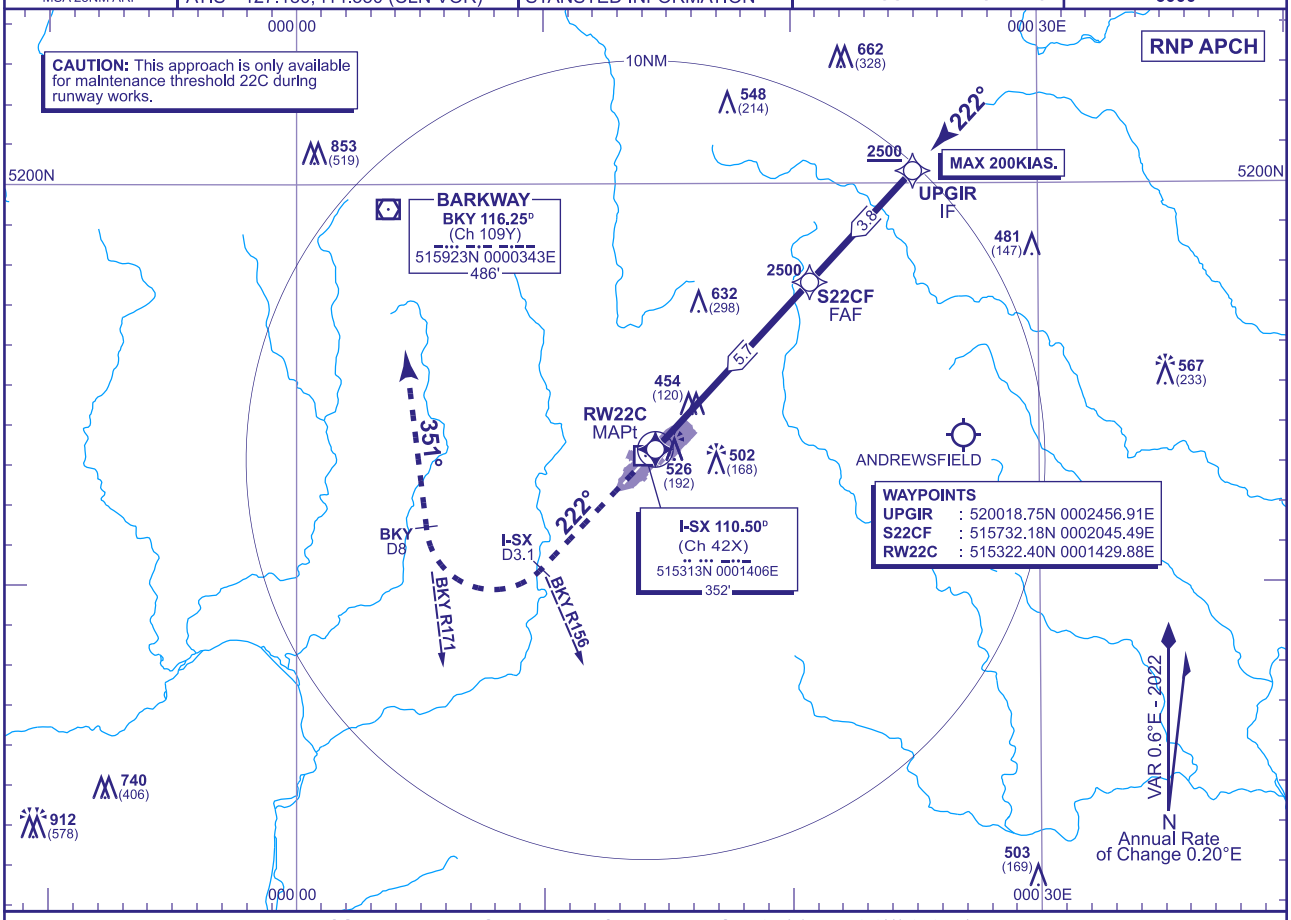
AERO INFO DATE 25 NOV 24

INSTRUMENT APPROACH CHART - ICAO

LONDON STANSTED
RNP Y
RWY 22C
(ACFT CAT A,B,C,D)

APP	120.625	STANSTED RADAR	AD ELEVATION	348	MIN TEMP -10°C
TWR	123.805, 125.550	STANSTED TOWER	THR ELEVATION	334	TRANSITION ALTITUDE 6000
	121.730	STANSTED GROUND	OBSTACLE ELEVATION 912 AMSL (578) (ABOVE THR)		
	121.955	STANSTED DELIVERY			
RAD	136.200	STANSTED DIRECTOR			
ATIS	127.180, 114.550 (CLN VOR)	STANSTED INFORMATION	BEARINGS ARE MAGNETIC		

MSA 25NM ARP



RECOMMENDED PROFILE: VERTICAL PATH ANGLE 3.5° (LNAV 6.1%) 370FT/NM

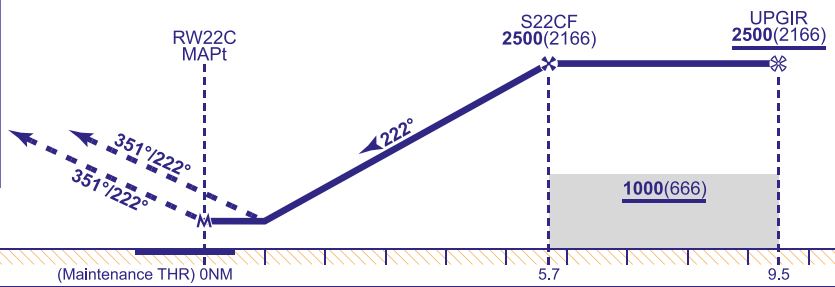
NM to RW22C	5	4	3	2	1
ALT(HGT)	**2240**(1906)	**1870**(1536)	**1500**(1166)	**1130**(796)	**760**(426)

TCH 50

MAPt (LNAV): RW22C

For missed approach resume conventional navigation at 800.

Climb straight ahead **not above 3000**. At **I-SX DME** 3.1 (**VOR BKY** R156) turn right to establish on **VOR BKY** R171 (QDM 351°) by **BKY DME** 8 continuing climb as necessary to **BKY VOR** at **3000** or as directed.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**710**(376)	**710**(376)	**710**(376)	**710**(376)		FT/MIN	990	870	740	620	500
	LNAV	**770**(436)	**770**(436)	**770**(436)	**770**(436)							
VM(C)OCA (OCH AAL)	Total Area	**900**(552)	**900**(552)	**1030**(682)	**1040**(692)							

AIRCRAFT UNABLE TO RECEIVE VOR DME BKY
Advise ATC. Radar direction will be passed for missed approach procedure.

NOTE
1 MAX 185KIAS for MAP until established on BKY R171.
2 DME I-SX only to be used for missed approach.
3 Temperature at which VPA exceeds 3.5° is 14°C.

CHANGE (2/25): PANSHANGER DISUSED AD REMOVED.

AERO INFO DATE 25 NOV 24

Instrument Approach Procedure Coding Tables

LONDON STANSTED RNP Z RWY04 - Instrument Approach Procedure via EKVEG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R04	001	IF	EKVEG	N	-	-	2500	-200	514458.16N 0000156.61E	IF / 10.4NM
R04	002	TF	SS04F	N	042° (042.7°)	-	2500	-	514745.40N 0000605.71E	FAF / 6.6NM
R04	003	TF	RW04	Y	042° (042.8°)	-	-	-	515237.34N 0001322.30E	MAPt
R04	004	CA	-	-	042° (042.8°)	-	800	-	-	At 800 revert to conventional navigation

LONDON STANSTED RNP Y RWY04C - Instrument Approach Procedure via AMGEM

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R04C	001	IF	AMGEM	N	-	-	2500	-200	514600.41N 0000329.21E	IF / 9.5NM
R04C	002	TF	S04CF	N	042° (042.7°)	-	2500	-	514847.59N 0000738.50E	FAF / 5.7NM
R04C	003	TF	RW04C	Y	042° (042.8°)	-	-	-	515257.52N 0001352.56E	MAPt
R04C	004	CA	-	-	042° (042.8°)	-	800	-185	-	At 800 revert to conventional navigation

CHANGE (2/24): SPECIFICATION CHANGE.
AERO INFO DATE 30 NOV 23

Instrument Approach Procedure Coding Tables

LONDON STANSTED RNP Z RWY22 - Instrument Approach Procedure via TOTVO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R22	001	IF	TOTVO	N	-	-	2500	-200	520118.82N 0002627.79E	IF / 10.4NM
R22	002	TF	SS22F	N	222° (223.0°)	-	2500	-	515832.31N 0002216.18E	FAF / 6.6NM
R22	003	TF	RW22	Y	222° (223.0°)	-	-	-	515342.57N 0001500.16E	MAPt
R22	004	CA	-	-	222° (223.0°)	-	800	-	-	At 800 revert to conventional navigation

LONDON STANSTED RNP Y RWY22C - Instrument Approach Procedure via UPGIR

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R22C	001	IF	UPGIR	N	-	-	2500	-200	520018.75N 0002456.91E	IF / 9.5NM
R22C	002	TF	S22CF	N	222° (223.0°)	-	2500	-	515732.18N 0002045.49E	FAF / 5.7NM
R22C	003	TF	RW22C	Y	222° (223.0°)	-	-	-	515322.40N 0001429.88E	MAPt
R22C	004	CA	-	-	222° (223.0°)	-	800	-185	-	At 800 revert to conventional navigation

CHANGE (2/24): SPECIFICATION CHANGE.
AERO INFO DATE 30 NOV 23

EGAE — LONDONDERRY/EGLINTON

EGAE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGAE — LONDONDERRY/EGLINTON

EGAE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 550234N Long: 0070943W Mid-point of Runway 08/26.
2	Direction and distance from city	7 NM ENE of Londonderry.
3	Elevation / Reference temperature / Mean Low Temperature	23 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	188 FT
5	Magnetic Variation / Annual Change	2.60°W (2022) / 0.22°E
6	AD Administration Address Telephone E-mail address	CITY OF DERRY AIRPORT OPERATIONS LTD. City of Derry Airport, Airport Road, Co Londonderry, BT47 3GY. 028-7181 0784 Ext 201 (Airport Switchboard) 028-7181 3300 (Administration) 028-7181 3322 (Security) 028-7181 3336 (Ground Handling) 028-7181 3314 (ATC) 028-7181 3338 (Fuel) corporate.aviation@cityofderryairport.com ground.handling@cityofderryairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGAE AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon 0635-0815 (0535-0715), 0900-1900 (0800-1800), 2000-2200 (1900-2100); Tue-Thu 0620-0730 (0520-0630), 0830-1900 (0730-1800), 2000-2200 (1900-2100); Fri 0620-0730 (0520-0630), 0830-1915 (0730-1815), 2000-2200 (1900-2100); Sat 0620-0730 (0520-0630), 0900-1600 (0800-1500), 1700-1800 (1600-1700); Sun 0850-0930 (0750-0830), 1200-1845 (1100-1745), 1930-2200 (1830-2100); See Remarks.
2	Customs and immigration	Customs: By arrangement. 0700-2200 (0600-2100). Immigration: By arrangement. 0700-2200 (0600-2100).
3	Health and sanitation	Port Health on call.
4	AIS Briefing Office	As AD hours. Self Briefing.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	Via ATC.
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	Mon 0530-1815 (0430-1715); Tue-Fri 0530-1800 (0430-1700); Sat 0530-1545 (0430-1445); Sun 0800-2045 (0700-1945); and by arrangement. Times may change at short notice and will be based around scheduled and pre-booked refuels. (Tel 028-71813338 / 028-71813336).
9	Handling	As AD hours.
10	Security	H24 DOT. List B Airport.
11	De-icing	As AD hours.
12	Remarks	This aerodrome is PPR. To obtain permission telephone Ground Handling on 028-7181 3336. AD hours are also the times at which the airspace and ATC services will become available. Operators should take this into consideration when planning arrival times.

EGAE AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Up to 10 tonnes.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80, W100.
3	Fuelling facilities/capacity	76,000 LT AVTUR JET A-1 stored in bulk tanks/36,000 LT in mobile bowsers. 20,000 LT AVGAS 100LL stored in a bulk tank/2,000 LT in a mobile bowser.
4	De-icing facilities	Mobile aircraft de-icing rig. Available from City of Derry Ground Handling.
5	Hangar space for visiting aircraft	Available.
6	Repair facilities for visiting aircraft	Light aircraft by arrangement. Troughton Engineering: 07752-142696.
7	Remarks	City Of Derry Airport Corporate Aviation handle all GA and Corporate flights. Tel: 028-7181 0784, Ext 456; SITA: LDYAPXH; Freq: 131.505 MHz; Callsign: EGLINTON HANDLING. AVTUR JET A-1 arranged through Ground Handling, Tel: 028-7181 0784, Ext 456.

EGAE AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in vicinity
2	Restaurants	In Terminal buildings.
3	Transportation	Taxis, car hire and buses.
4	Medical facilities	First aid facilities.
5	Bank and Post Office	
6	Tourist Office	Yes.
7	Remarks	

EGAE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 6 is limited to operators using Category 6 aircraft with seating capacity up to 50 passengers. Category 6 aircraft with greater than 50 passenger seat capacity, or increase to Category 7, on request. Reductions to the promulgated category occur where there is no impact on scheduled or other agreed traffic.
2	Rescue equipment	N/A See AD 2.20 For Details.
3	Capability for removal of disabled aircraft	N/A See AD 2.20 For Details.
4	Remarks	As AD hours. To ensure that the rescue and fire fighting services are maintained for 15 minutes after departures, aircraft are required to be airborne 15 minutes prior to the published AD closing time unless otherwise arranged.

EGAE AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	3 snow ploughs. 5 snow brushes. 2 surface de-icing rigs. 1 snow blower. Runway De-icer Fluid used ISOMEX type III and GLYCOMEX. Runway De-icer Solid used Cryotech NACC.
2	Clearance priorities	Runway 08/26. Apron. Taxiway B.
3	Remarks	Latest information from ATC Tel: 028-7181 3314.

EGAE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Concrete PCN 58/R/D/W/T WEST APRON Surface: Concrete

2	Taxiway width, surface and strength	Taxiway B: 23 M Surface: Asphalt PCN 58/F/D/W/T Taxiway D: 15 M Surface: Asphalt PCN 11/F/D/W/U Taxiway E: 15 M Surface: Asphalt PCN 11/F/D/W/U
3	Altimeter checkpoint location and elevation	Main Apron 11 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	Taxiway D is restricted to aircraft MTOW 20,000 KG or less. Taxiway E is restricted to aircraft MTOW 15,000 KG or less.

EGAE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Surface marking of taxi route across apron. Stands 1-4: Nose-in parking with pushback. Stand 4A: Westerly facing with self-manoeuvering off stand using minimal power. Marshalling is provided for all docking/parking guidance system of aircraft stands. A marshaller is present at the head of the stand or stopping position. This procedure allows a foreign object check to take place and ensures that aircraft are correctly parked and the taxiways not obstructed.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 08/26: Displaced threshold markings on Runway 08. Runway designators and centre-line markings, edge lines. TDZ markings and aiming point markings on Runway 08/26. Yellow lead-off/on lines to all runways. Runway guard lights positioned at Holding Points B, D, E and G and at the disused Runway 02/20 intersection with Runway 08/26.
3	Stop bars and runway guard lights (if any)	At B, D and E holding points.
4	Other runway protection measures	
5	Remarks	Wind direction indicators (LGTD) - 550236.78N 0070904.09W and 550225.02N 0071011.67W.

EGAE AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAE5609) 08/APPROACH 26/ TAKE-OFF	CHIMNEY	550226.65N 0071059.25W	55 FT	28 FT	No	
(EGAE5509) 08/APPROACH 26/ TAKE-OFF	HOUSE	550220.75N 0071117.81W	60 FT	30 FT	No	
(EGAE5559) 08/APPROACH 26/ TAKE-OFF	CHIMNEY	550213.85N 0071055.92W	55 FT	27 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAE10221)	HV PYLON	550251.87N 0071516.11W	317 FT	302 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGAE10222)	HV PYLON	550238.28N 0071503.86W	317 FT	301 FT	No	
(EGAE5670)	WATER TANK	550237.34N 0070854.56W	18 FT	9 FT	No	
(EGAE4941)	OBS LIGHT	550223.45N 0071007.85W	49 FT	25 FT	Yes Red	
(EGAE10586)	MAST	550106.55N 0070831.68W	644 FT	50 FT	No	

EGAE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	Charts, abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	ASXX. 215 Low Level SIG WX. 214 Spot Winds. Warnings
8	Supplementary equipment available for providing information	INTERNET. AFTN.
9	ATS units provided with information	CODA OPERATIONS LTD (ANSP)
10	Additional information (limitation of service, etc.)	Surface wind data (2 minute average) is available for both ends of the runway. Normally, only touchdown surface wind will be passed. Stop end surface wind and instantaneous surface wind available on request for both ends.

EGAE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
08	073.12°	1969 x 45 M	RWY surface: Asphalt, Grooved PCN 58/F/B/W/T	550225.20N 0071031.54W 187.8 FT	THR 21.0 FT TDZ 21.0 FT	
26	253.14°	1969 x 45 M	RWY surface: Asphalt, Grooved PCN 58/F/B/W/T	550242.87N 0070850.06W 187.8 FT	THR 10.5 FT TDZ 10.7 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
	966 x 150 M	2089 x 300 M	125 x 90 M -			RWY 08 Threshold displaced by 85 M. OFZ: Yes.
	298 x 150 M	2089 x 300 M	238 x 210 M 89 x 90 M			RWY 26 OFZ: Yes.

EGAE AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	1932 M	2898 M	1932 M	1847 M	
26	1969 M	2267 M	1969 M	1969 M	
08	1510 M	2265 M	1510 M		Take-off from intersection with Taxiway Echo.
08	1260 M	1890 M	1260 M		Take-off from intersection with Taxiway Delta.
08	804 M	1206 M	804 M		Take-off from intersection with Taxiway Bravo.
26	1151 M	1449 M	1151 M		Take-off from intersection with Taxiway Bravo.

EGAE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08	Centre-line with two crossbars. 420 M Light intensity high	Green Inset uni-directional With green wingbars	PAPI Left/3° 50 FT 407 M		Colour coded 30 M White/ Red Light intensity high	Elevated HI bi-directional with LI omni-directional component Light intensity high	Red Light intensity high		
26	Centre-line with two crossbars. 420 M Light intensity high	Green Inset uni-directional With elevated green wingbars	PAPI Left/3° 50 FT 359 M		Colour coded 30 M White/ Red Light intensity high	Elevated HI bi-directional with LI omni-directional component Light intensity high	Red Light intensity high		

EGAE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 550223.39N 0070921.16W White Strobe on Control Tower. During operational hours at night.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 550229.80N 0070921.61W (LGTD) - 550231.90N 0071014.69W (LGTD) - 550243.17N 0070908.98W.
3	TWY edge and centre line lighting	CL: Green centre-line on Taxiways D and E. EDGE: Blue edge lights on Taxiway B.
4	Secondary power supply/switch-over time	Standby generator / 14 seconds.
5	Remarks	Apron Floodlighting/Blue edge lights. Obstacle lighting.

EGAE AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGAE AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDONDERRY/EGLINTON ATZ A circle, 2.5 NM radius, centred at 550234N 0070943W on longest notified runway (08/26)	Upper limit: 2000 FT AGL Lower limit: SFC	G	EGLINTON APPROACH English	3000 FT		As AD hours and by arrangement.

EGAE AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	EGLINTON APPROACH	123.625 DOC 25 NM/10000 FT			As AD hours and by arrangement.	VDF 550243.50N 0070916.09W
TWR	EGLINTON TOWER	134.155 DOC 25 NM/4000 FT.			As AD hours and by arrangement.	
ATIS	EGLINTON INFORMATION	119.380 DOC 60 NM/ 20,000 FT.			As AD hours and by arrangement.	ATIS available by telephone: 028-7125 3131.
OTHER	EGLINTON EMERGENCY	121.500 Emergency Frequency			O/R	
OTHER	EGLINTON FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGAE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.61°W (2027)	IEGN	108.300 MHz	H24	550243.29N 0070909.60W		(RWY 08) Offset ILS. 2.68° south of centre-line. ILS usable during ATC hours only.
ILS/GP	IEGN	334.100 MHz	H24	550231.90N 0071014.74W		3° ILS Ref Datum Hgt 60 FT. ILS/GP usable during ATC hours only.
ILS/LOC I 1.62°W (2027)	IEGT	108.300 MHz	H24	550221.57N 0071052.31W		(RWY 26) LOC flags may occur when outside 28 left of the centre-line. ILS usable during ATC hours only.
ILS/GP	IEGT	334.100 MHz	H24	550243.17N 0070908.94W		3° ILS Ref Datum Hgt 50 FT. ILS/GP usable during ATC hours only.
DME	IEGN	20X 108.300 MHz	H24	550239.16N 0070943.52W	34 FT	(RWY 08) On AD. Freq paired with LOC I-EGN and I-EGT. Zero range is indicated at THR of Runway 08 and 26. Due to terrain effects the DME is unusable below 3500 FT between 140 and 185 MAG.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	IEGT	20X 108.300 MHz	H24	550239.16N 0070943.52W	34 FT	(RWY 26) On AD. Freq paired with LOC I-EGN and I-EGT. Zero range is indicated at THR of Runway 26 and 08. Due to terrain effects the DME is unusable below 3500 FT between 140 and 185 MAG.
NDB (L) 1.61°W (2027)	EGT	328.500 kHz	H24	550243.96N 0070921.71W		On AD. Range 25 NM.

EGAE AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All aircraft using this aerodrome or its facilities are required to have third party liability insurance cover in the sum of £1,000,000. Proof of this insurance should be available for inspection.
b) This aerodrome may only be used whilst ATC and RFFS facilities are being provided.
c) Aircraft unable to communicate by radio are subject to ATC approval.
d) The use of this aerodrome is subject to the published terms and conditions of use and Airport Byelaws, a copy of which is available on request.
e) Aircraft departing and arriving from and to destinations outside of Northern Ireland are required to use the main terminal building for Customs, Immigration and Special Branch clearances, as appropriate.
f) Flight crews are reminded that the apron is a 24 hour mandatory high visibility clothing area. All flight crews are to wear high visibility clothing for all apron activities (including aircraft walk-arounds).
g) Nose-in parking is the preferred method of parking all aircraft of more than 5700 KG MTOW. Requests for into wind parking should be made to ATC.
h) It is a requirement that all airlines using Londonderry Aerodrome must have local orders compatible with Londonderry Aerodrome - Emergency Orders. Airlines, General Aviation operators and Flying clubs should also note that it is their responsibility to recover disabled aircraft and aircraft wreckage and must have appropriate arrangements in place before commencing flying operations into the aerodrome. Londonderry Aerodrome will act as the co-ordinating body throughout the recovery operation and has only very limited equipment supplied by a 3rd Party which might be used to salvage disabled aircraft.
i) Departing and arriving aircraft, on first contact with Eglinton ATC must state, ATIS code letter, QNH received and maintain a listening watch.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) No ground signals except light signals.
b) Aerodrome habitat work takes place on the grass areas periodically throughout the year.
c) Pilots are warned of the presence of large congregations of sea-birds in the approach area to Runway 26 (take-off area for Runway 08). There is a constant bird hazard on the surrounding terrain and tidal mud flats adjacent to the aerodrome, which can increase at short notice as concentrations of migratory birds move through the area. During the months of October to April pilots are advised of the presence of large species Whooper Swans in the vicinity of the aerodrome mainly flying at an altitude of approx 25-100 FT AGL. On aerodrome bird dispersal including use of pyrotechnics is in operation throughout the aerodrome operational hours.
d) Pilots are reminded of the close proximity of Ballykelly disused aerodrome 5 NM to the east-north-east of this aerodrome. Pilots of aircraft en-route and in the circuit should positively identify Londonderry/Eglinton before committing the aircraft to landing.
e) Single-engined aircraft should avoid overflying a chemical plant 2 to 3 NM west of the aerodrome below 1500 FT.
f) A single-track railway line passes through the overrun RESA for Runway 08, and approach RESA for Runway 26. An ATC operated railway signal system is used to stop trains under normal conditions as follows:

i. Landing Aircraft

1. Public transport aircraft landing on Runway 26 or Runway 08 priority is given to the aircraft and trains are stopped.
2. General aviation aircraft landing on Runway 26 or Runway 08 priority is given to the train. Aircraft will be delayed for up to 5 minutes.

ii. Departing Aircraft

1. For all departures from Runway 08 or Runway 26 priority is given to the passing train ATC will sequence movements accordingly, delays of up to 5 minutes may be experienced.

g) High ground 120°T to 240°T south of aerodrome rising to 1300 FT AMSL 142°T, 4.4 NM from ARP.

5 HELICOPTER OPERATIONS

Not applicable

6 Use of Runways

a) In calm wind conditions Runway 08 is the preferred departure runway and Runway 26 is the preferred arrival runway.
b) Landing on Runways 08 and 26

i. Runway 08 – Aircraft that are unable to turn off at Taxiway Bravo will be required to turn on the runway and back track to Taxiway Bravo. To avoid surface damage B737, A320 or larger aircraft must slow to taxi speed before moving fully to the left or right of the centre-line and then using the maximum available width of the runway to make a slow 180° turn to the opposite side of the runway before returning to the centre-line avoiding wheel locks or excess engine power consistent with good aviation practice.
ii. Runway 26 – To avoid surface damage B737, A320 or larger aircraft will be required to continue to the end of the runway and turn on Runway 08 threshold turnpad unless instructed otherwise by ATC. Turning pad designed for right hand turns.

c) Except where an AOC holder has less restrictive state authorised take-off minima, departures in RVR conditions of less than 400 M are not permitted.
d) In winter conditions, runway ant-icing and snow clearance operations will take priority over all other operations at the discretion of the airport authority. ATC will inform pilots of expected delays.

7 TRAINING

a) Use of the aerodrome for training purposes is subject to the following:

i. Training is not permitted between 0000-0700 (2300-0600);
ii. a booking system operates for instrument training. Training periods can be booked by application to ATC. Filing of a flight plan does not constitute a booking and failure to make a booking may result in the aircraft being refused use of the facilities. Pilots are to inform ATC of booking cancellations;
iii. circuit training is only available by prior arrangement with ATC;
iv. circuit direction for all training aircraft will be varied by ATC for air traffic and noise nuisance avoidance purposes.

EGAE AD 2.21 NOISE ABATEMENT PROCEDURES

The following procedures may be departed from only to the extent necessary for avoiding immediate danger and for complying with ATC instructions.

1 NOISE ABATEMENT PROCEDURES - ALL AIRCRAFT

a) Operators of all aircraft using the airport are to ensure that their operations are conducted in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
b) Where the surface wind is calm, jet movements, when possible, should use Runway 26 for arrivals and Runway 08 for departures, particularly at night.
c) At night the circuit heights will be increased to 1500 FT AAL.
d) The use of Runway 08/26 for circuit training at night is prohibited between 0000-0700 (2300-0600).
e) Aircraft shall not execute inflight turns within the Airport Boundary unless otherwise instructed by ATC.

2 NOISE ABATEMENT PROCEDURES - AIRCRAFT OF 5700 KG MTOW OR LESS

a) All pilots should arrange their flight so as to minimise noise disturbance. Pilots should not carry out manoeuvres which attract attention to their aircraft;
b) landing aircraft shall follow a descent path that will not result in it being below the visual approach path as indicated by the PAPI.

3 NOISE ABATEMENT PROCEDURES - AIRCRAFT OF MORE THAN 5700 KG MTOW

a) **Arrivals:**

i. Jet aircraft must not join the FAT to any runway at a height less of than 1500 FT (QFE), except that jet aircraft carrying out visual circuit training may descend from circuit height on base leg and join the FAT not less than 1000 FT (QFE)
ii. Propeller driven aircraft of more than 5700 KG MTOW must not join the FAT to any runway at a height of less than 1000 (QFE).
iii. Unless otherwise instructed by ATC, aircraft using the ILS in IMC or VMC shall not descend below the heights specified above before intercepting the glidepath nor thereafter fly below it. Aircraft approaching without assistance from ILS shall follow a descent

path which will not result in its being at any time lower than the approach path which would be followed by an aircraft using the ILS glidepath.

b) **Departures:**

i. Runway 26. Departing aircraft maintain the runway centre-line until passing altitude 3100 FT;
ii. Runway 08. Departing aircraft maintain the runway centre-line until passing altitude 3100 FT.

EGAE AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome within the Scottish FIR are established outside controlled airspace. See ENR 1.5, paragraph 6.
b) Instrument Approach Procedures (IAP) for this aerodrome within the Shannon FIR are established within controlled airspace (Eglinton CTA areas) - see ENR 2.2 paragraph 1.9.2 and AD 2.17. Aircraft are permitted to enter the Eglinton CTA areas whilst using these procedures and under the control of Eglinton ATC.
c) There are three Holds established for use with the Londonderry/Eglinton Direct Arrivals as shown below:

i. COLRE - 550659N 0064402W;
ii. DUNGV - 545344N 0064724W;
iii. LUNEX - 545036N 0071531W.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Following completion of the noise abatement procedure Runway 26 departing aircraft are permitted to enter the Eglinton CTA West under the control of Eglinton ATC.

3 NORTH ATLANTIC DEPARTURES

a) Due to the proximity of the Shanwick Oceanic boundary to Londonderry/Eglinton, pilots must consider timescales for submitting an ’RCL’. Refer to ENR 2.2, paragraph 3.8.2 for details.

4 CIRCUIT DIRECTIONS AND HEIGHTS

a) Runway 08; 1000 FT for LH and 1200 FT for RH. Runway 26; 1200 FT for LH and 1000 FT for RH.

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

Note: *Flights using Londonderry Eglinton Airport under VFR must be prepared to route via VRPs and to route clear of instrument approaches if so instructed by ATC. ATC may request that inbound and outbound aircraft follow the following visual routes:*

a) Dungiven - Claudy Crossroads - Londonderry/Eglinton.
b) Moville Quay - Carrowkeel - Londonderry/Eglinton.

EGAE AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGAE AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGAE-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGAE-2-2
CONTROL AREA CHART - VRPS
AD 2.EGAE-4-1
INSTRUMENT APPROACH CHART ILS/DME Z (OFFSET LOC) RWY 08 - ICAO
AD 2.EGAE-8-1
INSTRUMENT APPROACH CHART ILS/DME Y (OFFSET LOC) RWY 08 (CAT A,B) - ICAO

AD 2.EGAE-8-2
INSTRUMENT APPROACH CHART LOC/DME Z (OFFSET LOC) RWY 08 - ICAO
AD 2.EGAE-8-3
INSTRUMENT APPROACH CHART LOC/DME Y (OFFSET LOC) RWY 08 (CAT A,B) - ICAO
AD 2.EGAE-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 08 - ICAO
AD 2.EGAE-8-5
INSTRUMENT APPROACH CHART DIRECT ARRIVALS RWY 08 - ICAO
AD 2.EGAE-8-6
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 26 - ICAO
AD 2.EGAE-8-7
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 26 - ICAO
AD 2.EGAE-8-8
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 26 - ICAO
AD 2.EGAE-8-9
INSTRUMENT APPROACH CHART DIRECT ARRIVALS ILS/DME/NDB(L) RWY 26 - ICAO
AD 2.EGAE-8-10
INSTRUMENT APPROACH CHART DIRECT ARRIVALS NDB(L)/DME RWY 26 - ICAO
AD 2.EGAE-8-11

EGAE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

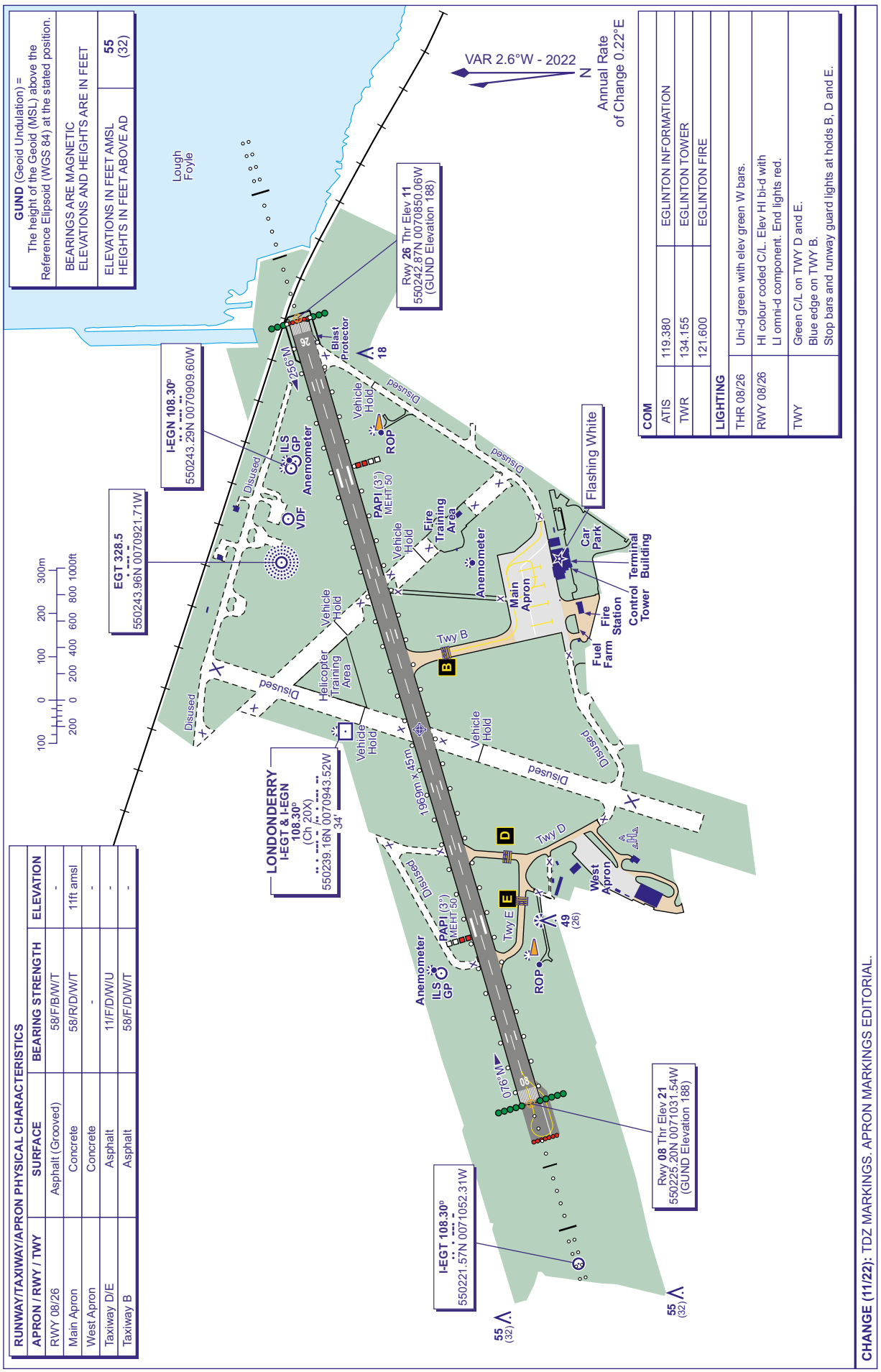
Not applicable

AERODROME CHART - ICAO

LONDONDERRY/EGLINTON EGAE

ARP 550234N 0070943W

AD ELEV 23FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 08/26	Asphalt (Grooved)	58/F/B/W/T	-
Main Apron	Concrete	58/R/D/W/T	11ft amsl
West Apron	Concrete	-	-
Taxiway D/E	Asphalt	11/F/D/W/U	-
Taxiway B	Asphalt	58/F/D/W/T	-

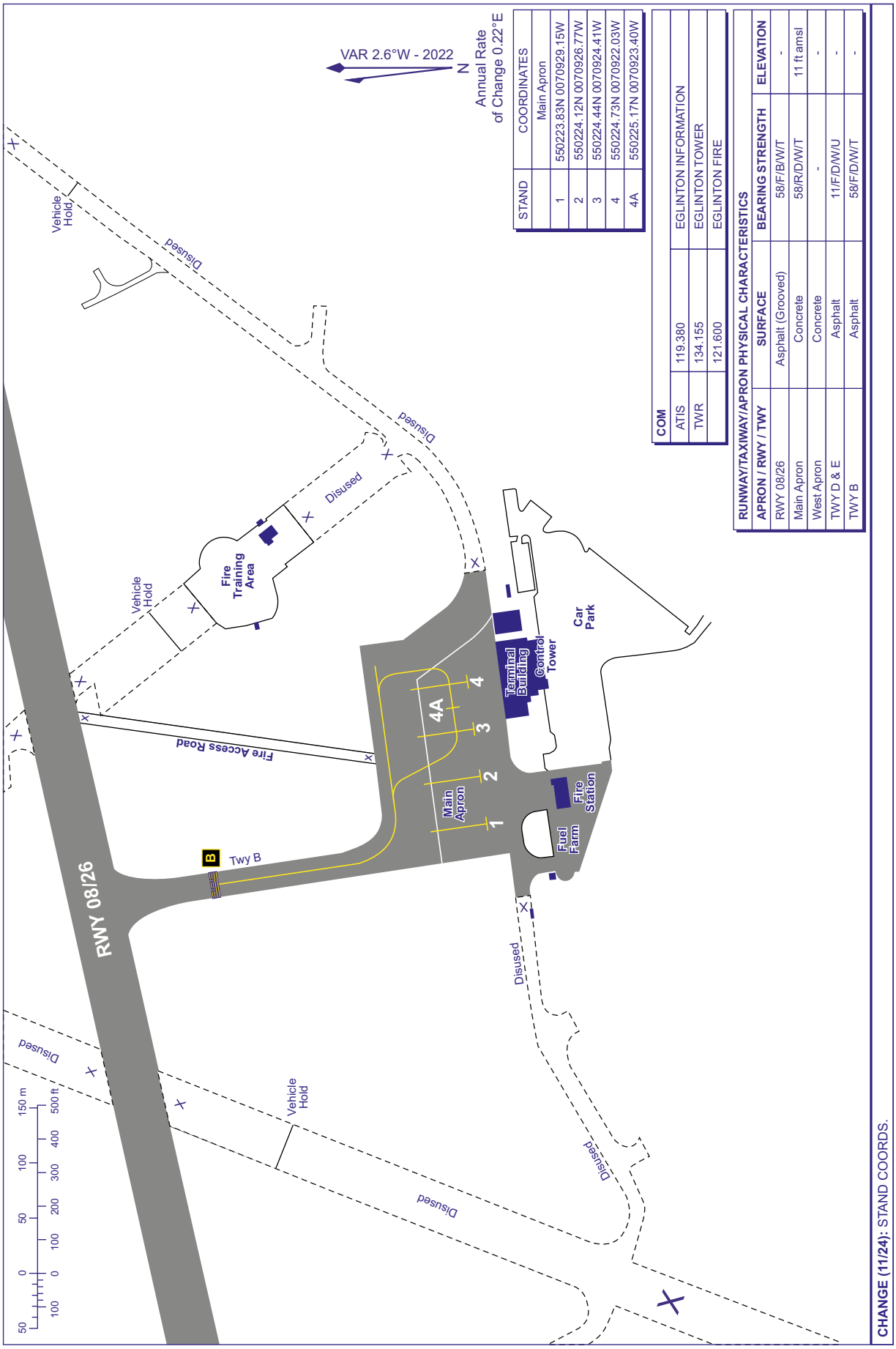
AERO INFO DATE 12 AUG 22

LONDONDERRY/EGLINTON EGAE

AD ELEV 23FT

ARP 550234N 0070943W

AIRCRAFT PARKING/DOCKING CHART - ICAO



STAND	COORDINATES
	Main Apron
1	550223.83N 0070929.15W
2	550224.12N 0070926.77W
3	550224.44N 0070924.41W
4	550224.73N 0070922.03W
4A	550225.17N 0070923.40W

COM		
ATIS	119.380	EGLINTON INFORMATION
TWR	134.155	EGLINTON TOWER
	121.600	EGLINTON FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS

APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 08/26	Asphalt (Grooved)	58/F/B/W/T	-
Main Apron	Concrete	58/R/D/W/T	11 ft amsl
West Apron	Concrete	-	-
TWY D & E	Asphalt	11/F/D/W/U	-
TWY B	Asphalt	58/F/D/W/T	-

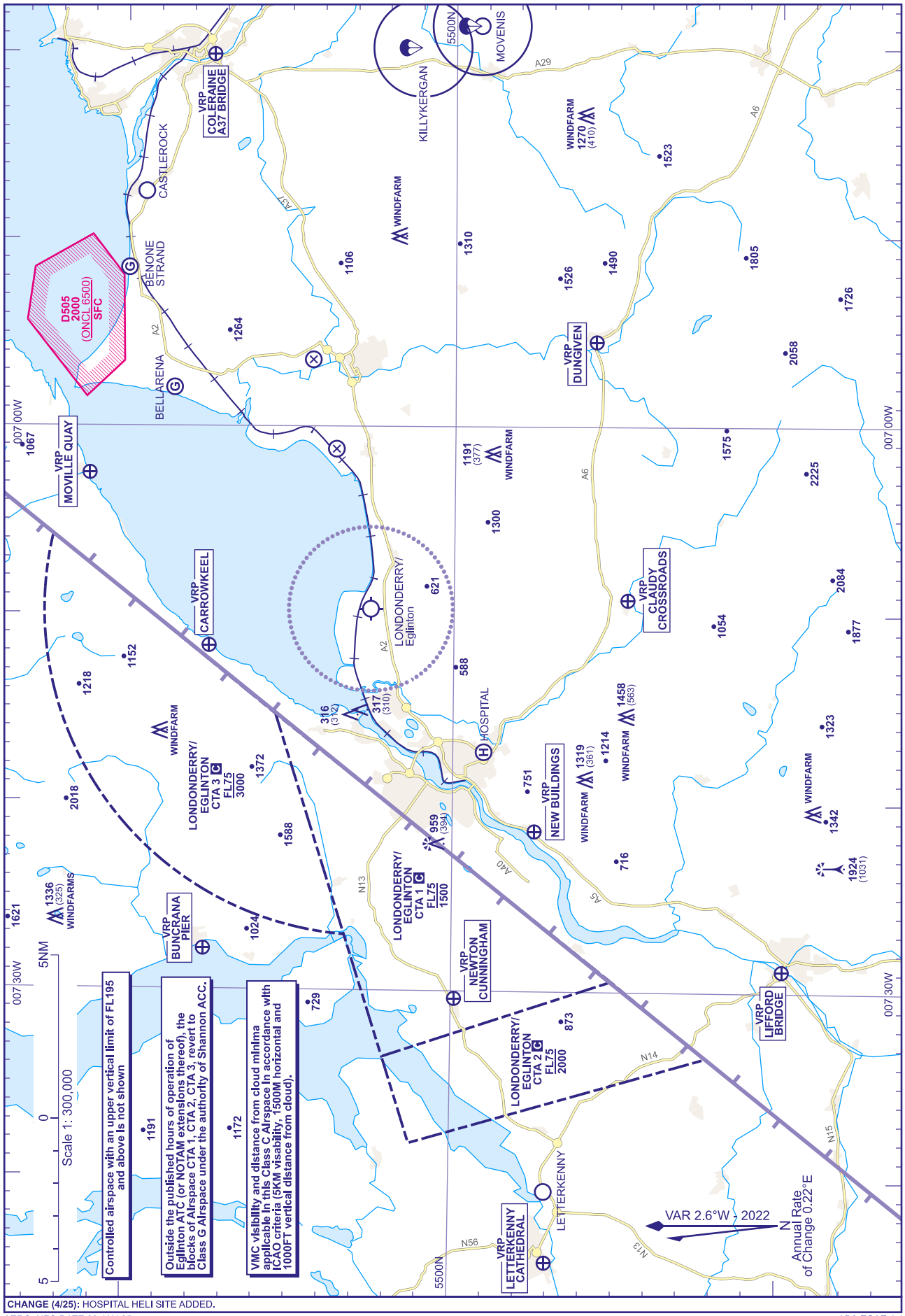
CHANGE (11/24): STAND COORDS.

AERO INFO DATE 19 AUG 24

AD 2-EGAE-2-2

CONTROL AREA CHART - VRPs

LONDONDERRY/EGLINTON



CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 23 JAN 25

AD2-EGAE 4-1

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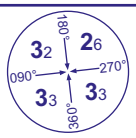
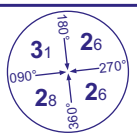
INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
ILS/DME Z (Offset LOC) RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EGT

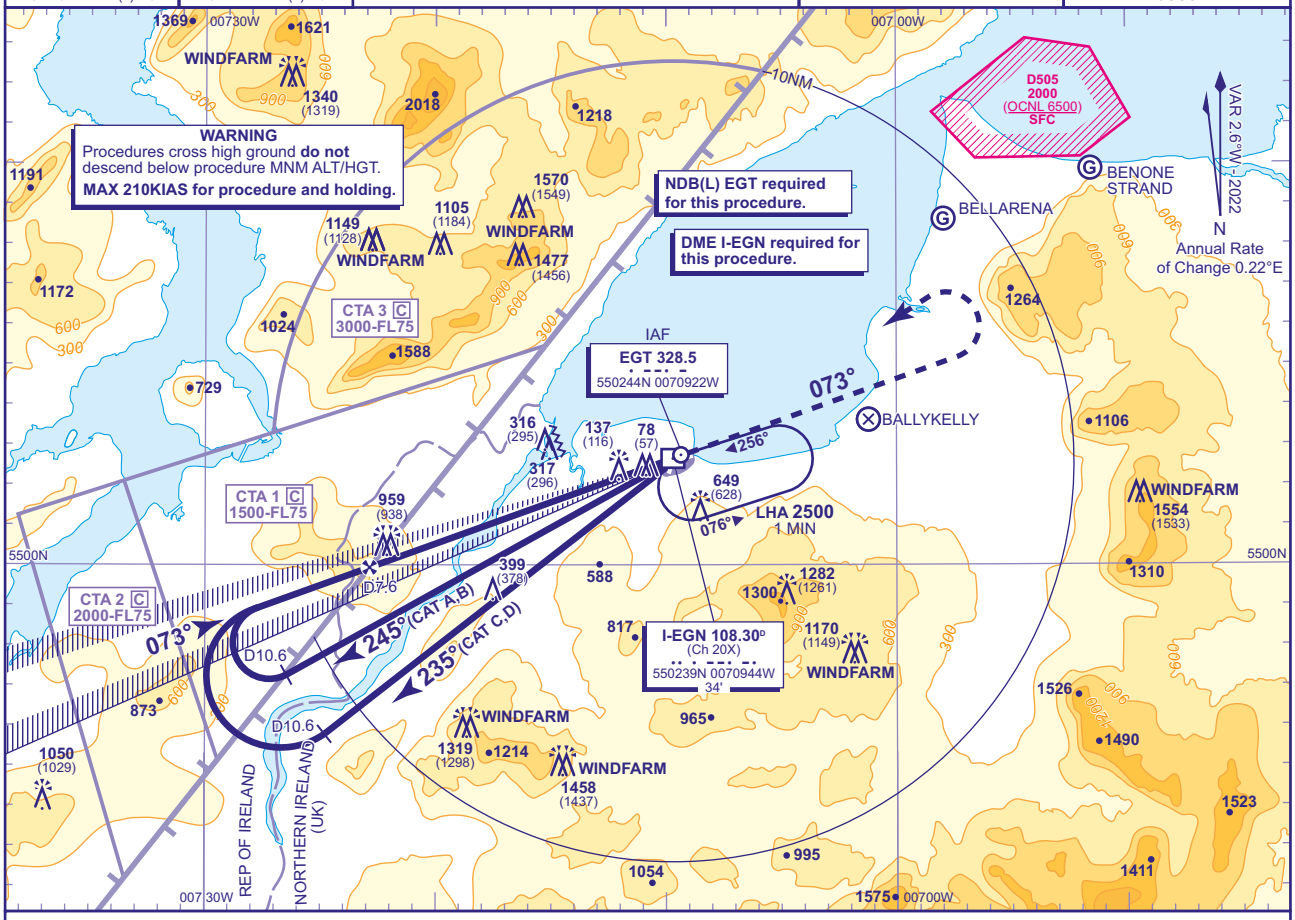


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH
TWR	134.155	EGLINTON TOWER
ATIS	119.380	EGLINTON INFORMATION

AD ELEVATION	23
THR ELEVATION	21
OBSTACLE ELEVATION	1570 AMSL (1549) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

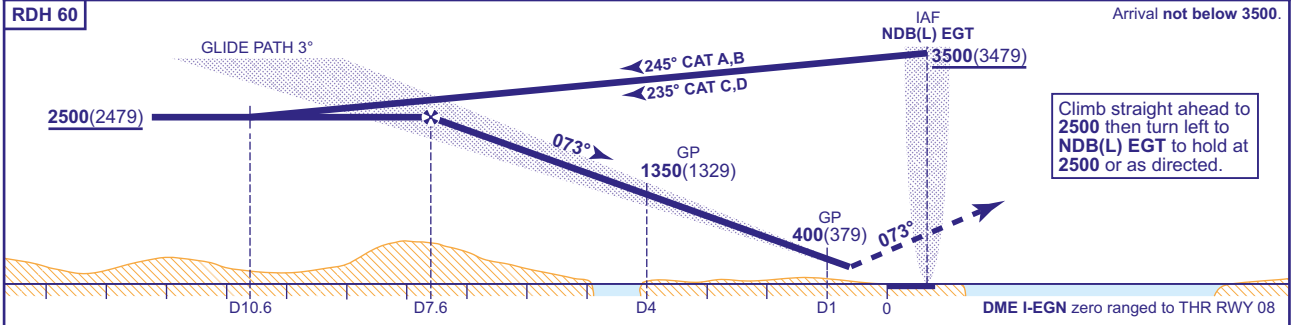


RECOMMENDED PROFILE GLIDE PATH 3.0°, 318FT/NM

DME I-EGN	7	6	5	4	3	2	1
ALT(HGT)	**2310**(2289)	**1990**(1969)	**1670**(1649)	**1350**(1329)	**1040**(1019)	**720**(699)	**400**(379)

RDH 60

Arrival **not below 3500**.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**293**(272)	**293**(272)	**293**(272)	**293**(272)
VM(C)OCA (OCH AAL)	Total Area	**950**(927)	**950**(927)	**1740**(1717)	**1740**(1717)
	North of RWY 08/26	**430**(407)	**580**(557)	**720**(697)	**1090**(1067)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES
1. Lowest altitude to commence procedure from hold is **2500**.
2. LOC offset 2.7° from RWY 08 C/L.
3. DME not usable below **3500** between 140° and 185° due to terrain effects.
4. Aircraft are permitted to enter the Eglinton CTA areas whilst using these procedures and under the control of Eglinton ATC.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). VM(C)OCA(OCH AAL).

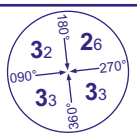
AERO INFO DATE 30 NOV 23

AD 2-EGAE-8-1

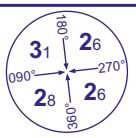
I

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
ILS/DME Y
(Offset LOC)
RWY 08
(ACFT CAT A,B)



MSA 25NM NDB(L) EGT

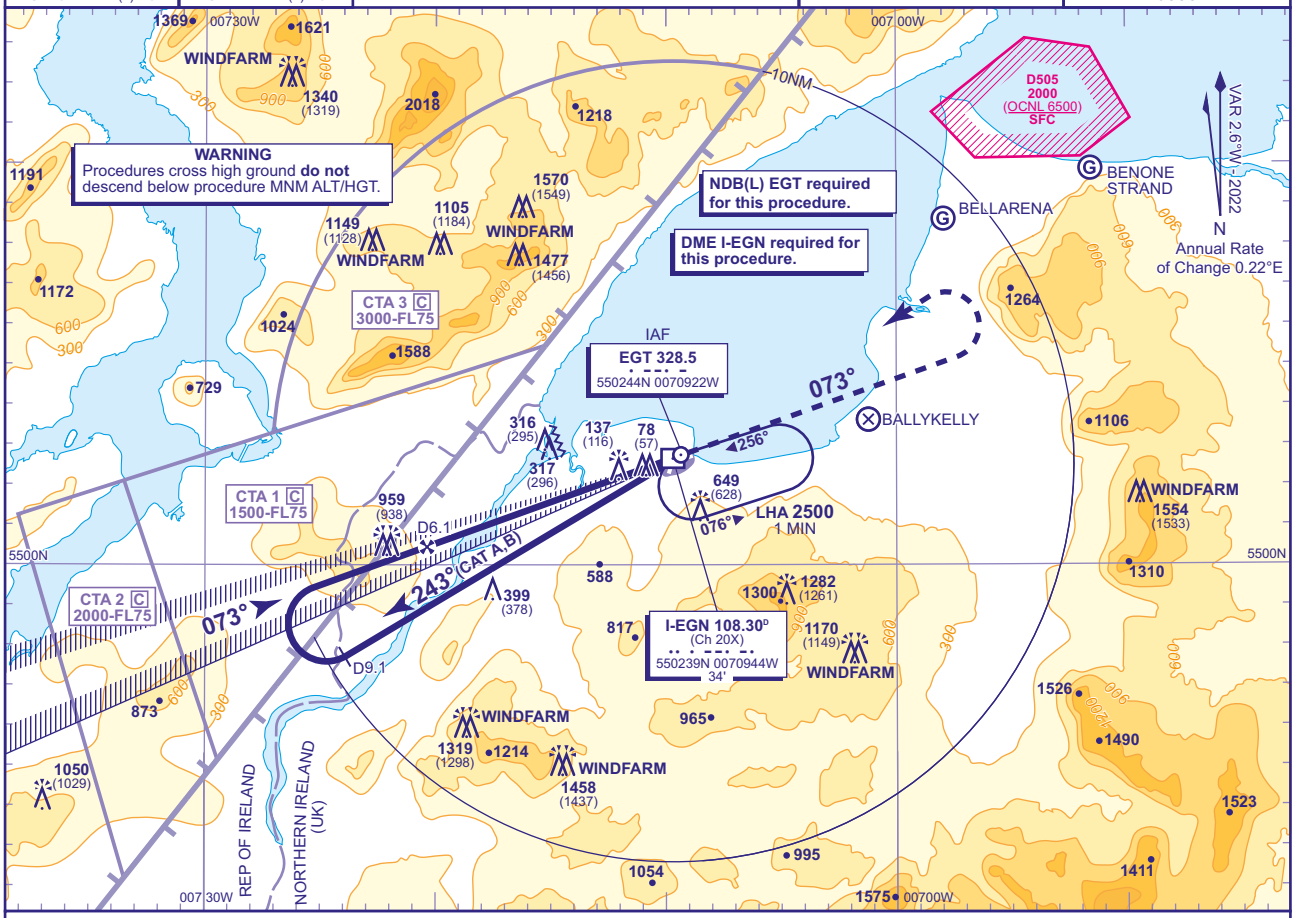


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

AD ELEVATION	23
THR ELEVATION	21
OBSTACLE ELEVATION **1570 AMSL** (1549) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

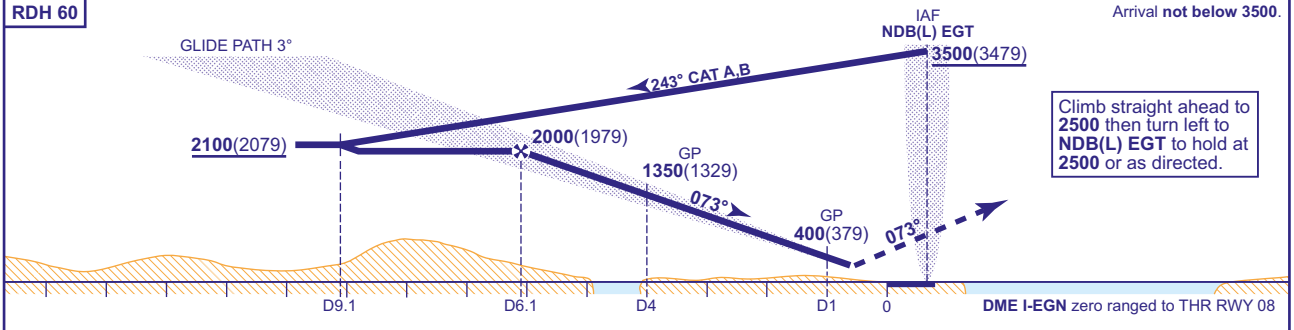


RECOMMENDED PROFILE GLIDE PATH 3.0°, 318FT/NM

DME I-EGN	6	5	4	3	2	1
ALT(HGT)	**1990**(1969)	**1670**(1649)	**1350**(1329)	**1040**(1019)	**720**(699)	**400**(379)

RDH 60

Arrival **not below 3500**.



Aircraft Category		A	B
OCA (OCH)	CAT I	**293**(272)	**293**(272)
VM(C)OCA (OCH AAL)	Total Area	**950**(927)	**950**(927)
	North of RWY 08/26	**430**(407)	**580**(557)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES
1. Lowest altitude to commence procedure from hold is **2500**.
2. LOC offset 2.7° from RWY 08 C/L.
3. DME not usable below **3500** between 140° and 185° due to terrain effects.
4. Aircraft are permitted to enter the Eglinton CTA areas whilst using these procedures and under the control of Eglinton ATC.

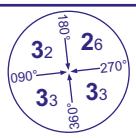
CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). HEIGHT/ALTITUDE IF D9.1.

AERO INFO DATE 08 DEC 23

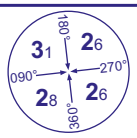
AD 2-EGAE-8-2

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
LOC/DME Z (Offset LOC)
RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EGT

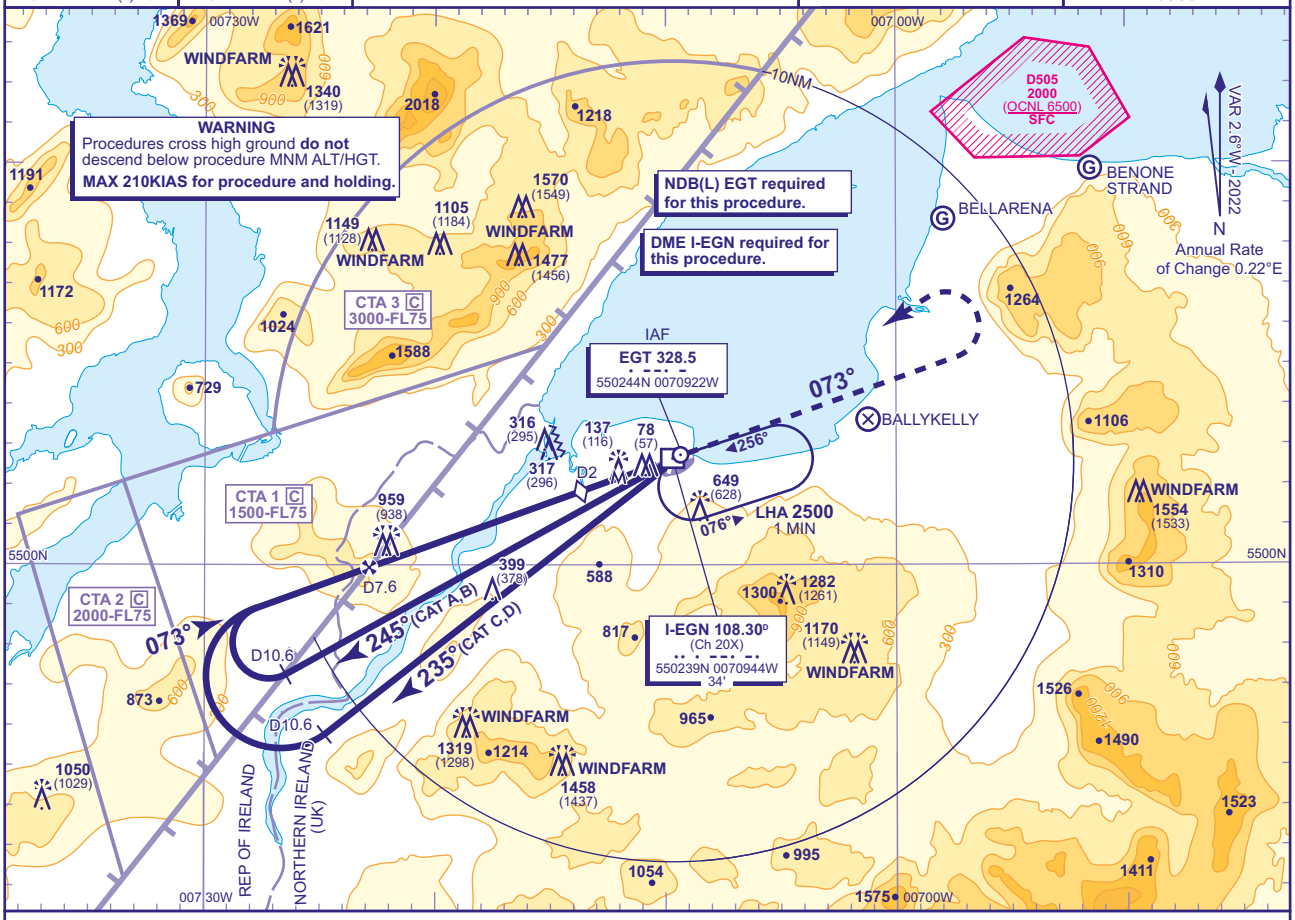


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

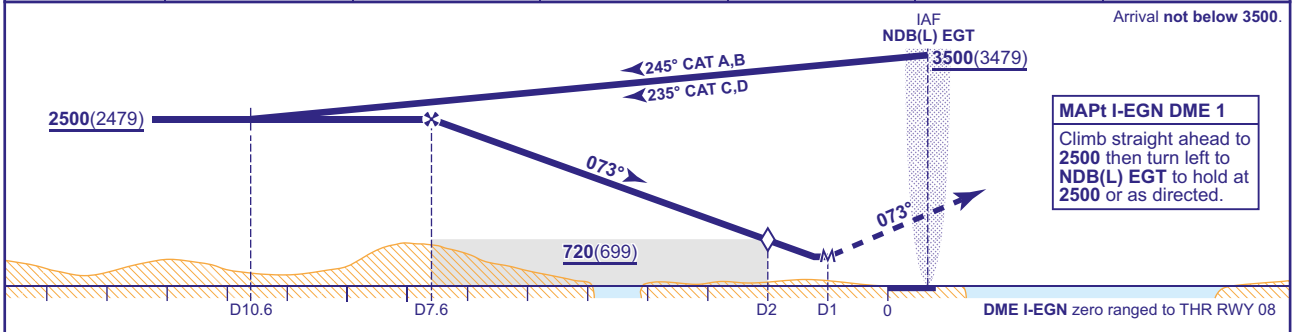
AD ELEVATION	23
THR ELEVATION	21
OBSTACLE ELEVATION	1570 AMSL (1549) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-EGN	7	6	5	4	3	2 (SDF)
ALT(HGT)	**2310**(2289)	**1990**(1969)	**1670**(1649)	**1350**(1329)	**1040**(1019)	**720**(699)



Arrival **not below 3500**.

MAPt I-EGN DME 1

Climb straight ahead to **2500** then turn left to **NDB(L) EGT** to hold at **2500** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**530**(509)	**530**(509)	**530**(509)	**530**(509)
VM(C)OCA (OCH AAL)	Total Area	**950**(927)	**950**(927)	**1740**(1717)	**1740**(1717)
	North of RWY 08/26	**430**(407)	**580**(557)	**720**(697)	**1090**(1067)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTES
1. Lowest altitude to commence procedure from hold is **2500**.
2. FAT offset 2.7° from RWY 08 C/L.
3. DME not usable below **3500** between 140° and 185° due to terrain effects.
4. Aircraft are permitted to enter the Eglinton CTA areas whilst using these procedures and under the control of Eglinton ATC.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). VM(C)OCA(OCH AAL).

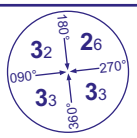
AERO INFO DATE 30 NOV 23

AD 2-EGAE-8-3

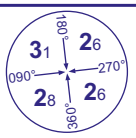
I

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
LOC/DME Y (Offset LOC) RWY 08
(ACFT CAT A,B)



MSA 25NM NDB(L) EGT

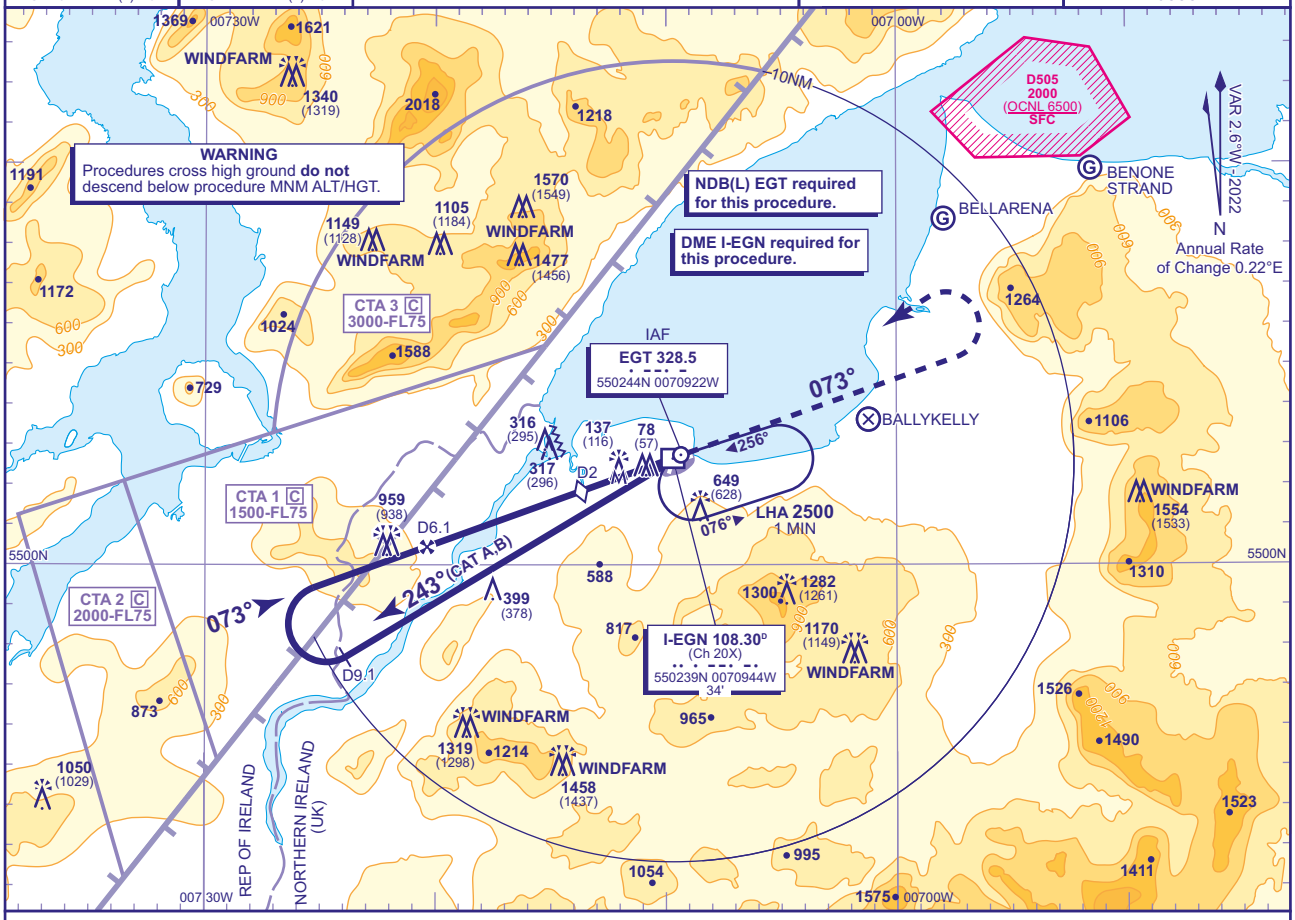


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

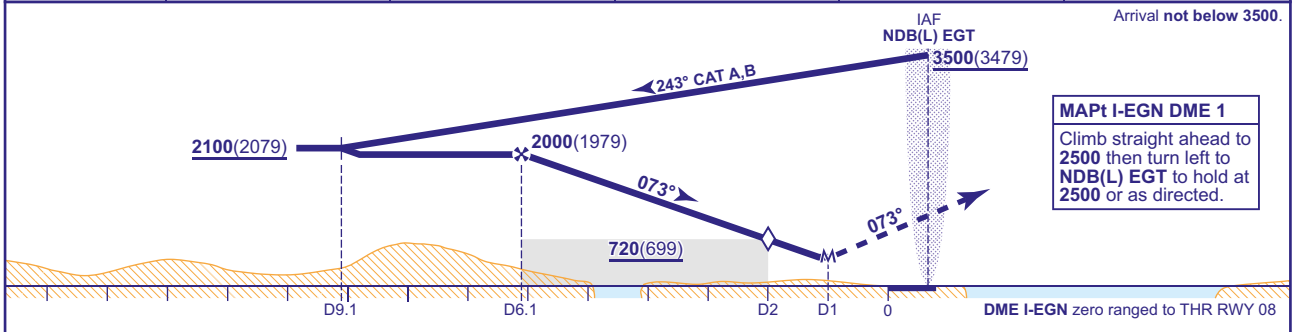
AD ELEVATION	23
THR ELEVATION	21
OBSTACLE ELEVATION	**1570 AMSL** (1549) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-EGN	6	5	4	3	2 **(SDF)**
ALT(HGT)	**1990**(1969)	**1670**(1649)	**1350**(1329)	**1040**(1019)	**720**(699)



Arrival **not below 3500**.

MAPt I-EGN DME 1
Climb straight ahead to **2500** then turn left to **NDB(L) EGT** to hold at **2500** or as directed.

Aircraft Category		**A**	**B**
OCA (OCH)	**Procedure**	**450**(429)	**450**(429)
VM(C)OCA (OCH AAL)	**Total Area**	**950**(927)	**950**(927)
	North of RWY 08/26	**430**(407)	**580**(557)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

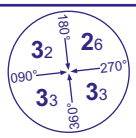
NOTES
1 Lowest altitude to commence procedure from hold is **2500**.
2 FAT offset 2.7° from RWY 08 C/L.
3 DME not usable below **3500** between 140° and 185° due to terrain effects.
4 Aircraft are permitted to enter the Eglinton CTA areas whilst using these procedures and under the control of Eglinton ATC.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). HEIGHT/ALTITUDE IF D9.1.

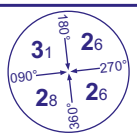
AERO INFO DATE 08 DEC 23 AD 2-EGAE-8-4

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
NDB(L)/DME
RWY 08
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EGT

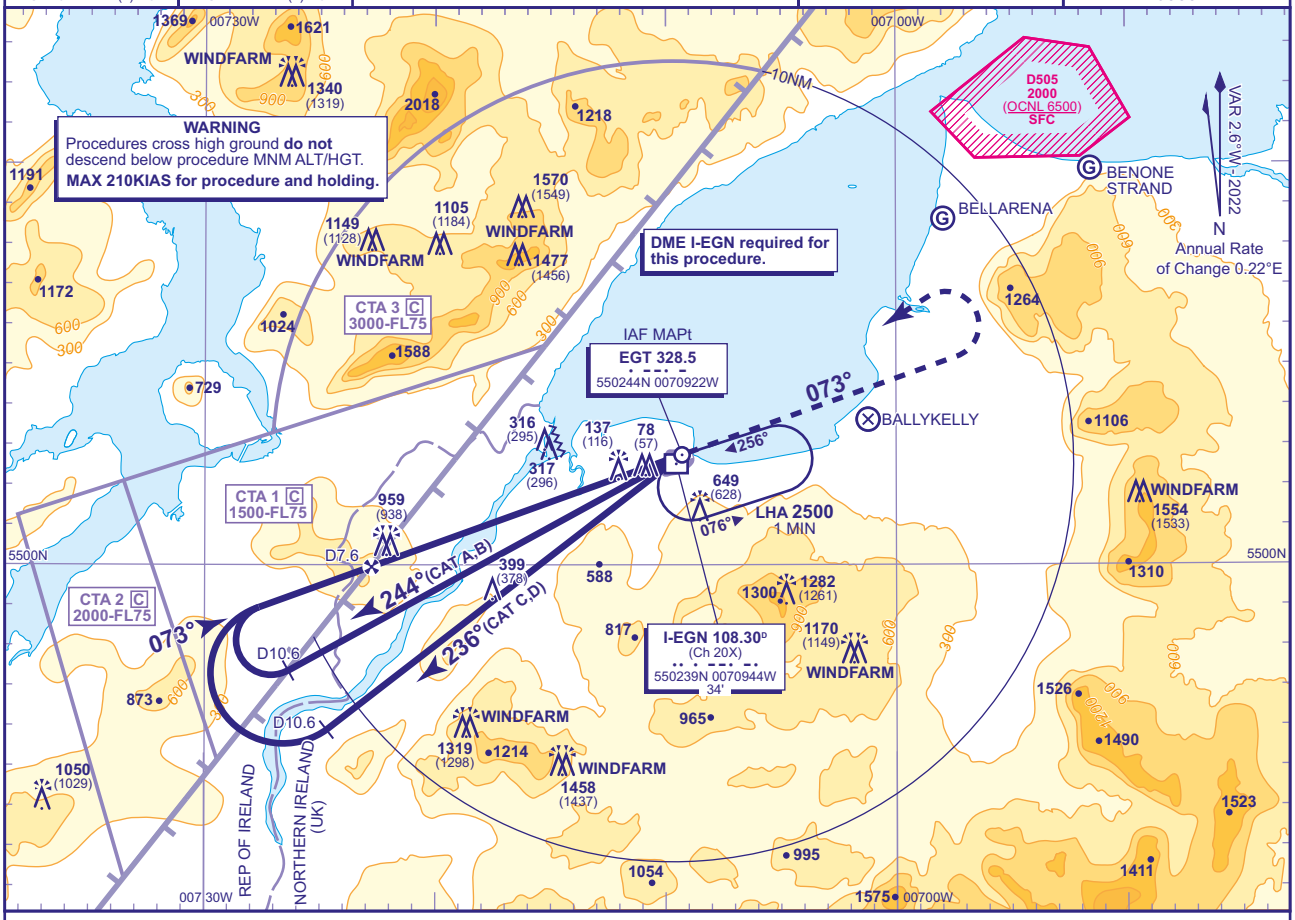


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

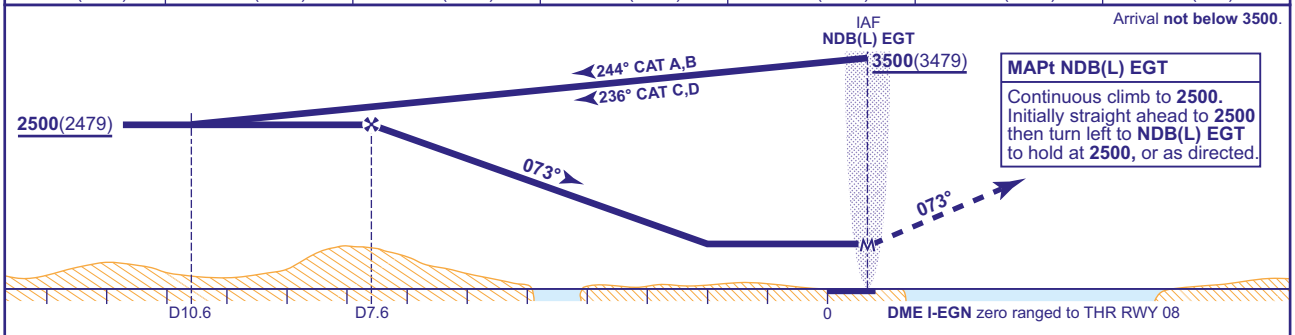
AD ELEVATION	23
THR ELEVATION	21
OBSTACLE ELEVATION	1570 AMSL (1549) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.24%, 315FT/NM

DME I-EGN	7	6	5	4	3	2
ALT(HGT)	**2310**(2289)	**1990**(1969)	**1670**(1649)	**1350**(1329)	**1040**(1019)	**720**(699)



Arrival **not below 3500**.

MAPt NDB(L) EGT

Continuous climb to **2500**. Initially straight ahead to **2500** then turn left to **NDB(L) EGT** to hold at **2500**, or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**1210**(1189)	**1210**(1189)	**1210**(1189)	**1210**(1189)
VM(C)OCA (OCH AAL)	Total Area	**950**(927)	**950**(927)	**1740**(1717)	**1740**(1717)
	North of RWY 08/26	**430**(407)	**580**(557)	**720**(697)	**1090**(1067)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	420

NOTES
1. Lowest altitude to commence procedure from hold is **2500**.
2. FAT offset 2.7° from RWY CL.
3. DME not usable below **3500** between 140° and 185° due to terrain effects.
4. Aircraft are permitted to enter the Eglinton CTA areas whilst using these procedures and under the control of Eglinton ATC.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). VM(C)OCA(OCH AAL).

AERO INFO DATE 30 NOV 23

AD 2-EGAE-8-5

INSTRUMENT APPROACH CHART - ICAO

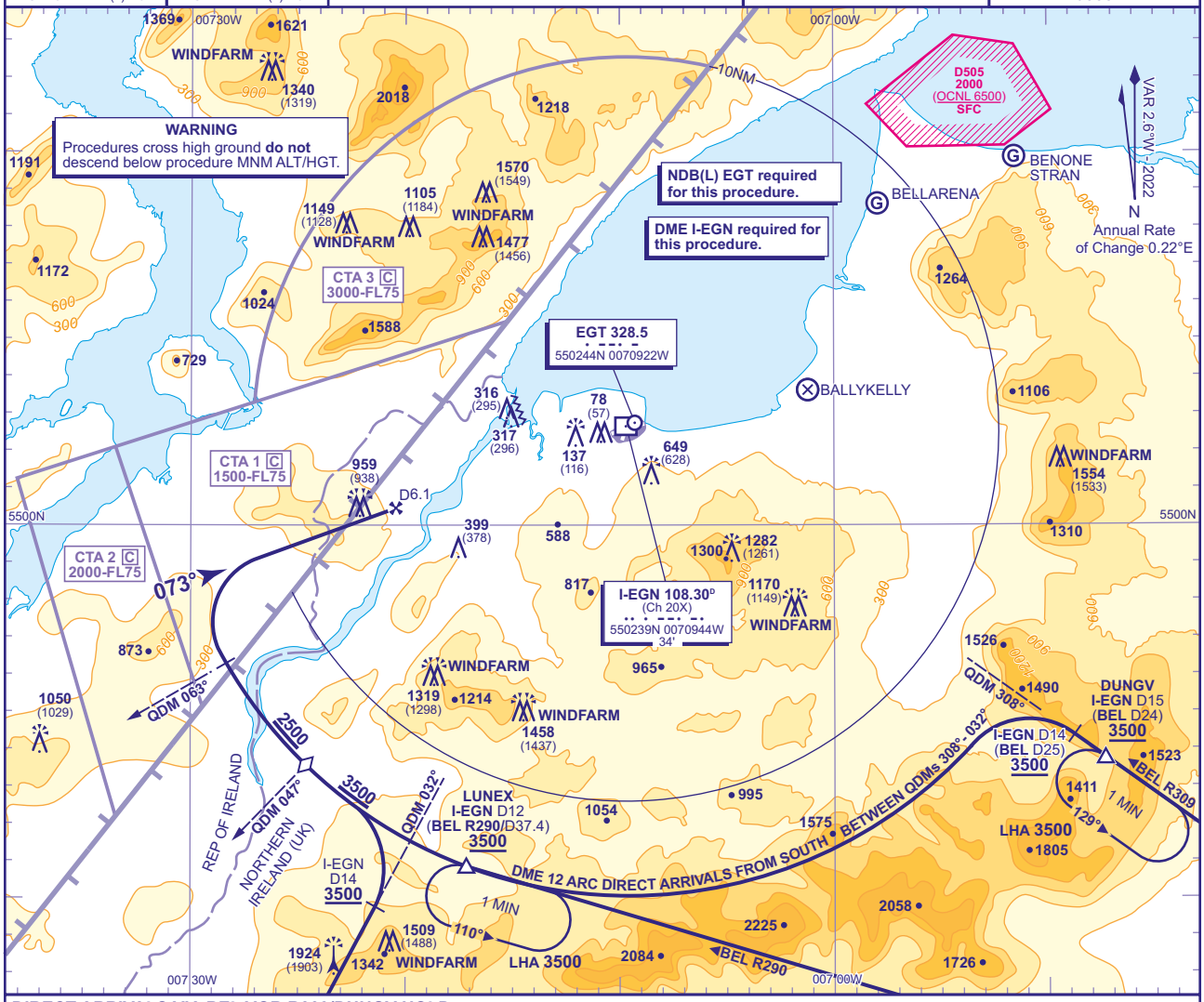
LONDONDERRY/EGLINTON
Direct Arrivals
RWY 08
(ACFT CAT A,B,C,D)

MSA 25NM NDB(L) EGT

MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	AD ELEVATION	23
TWR	134.155	EGLINTON TOWER	THR ELEVATION	21
ATIS	119.380	EGLINTON INFORMATION	OBSTACLE ELEVATION **1570 AMSL** (1549) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



DIRECT ARRIVALS VIA BEL VOR R309/DUNGV HOLD
Arrival not below 3500. Intercept and establish on BEL VOR R309. At I-EGN DME 14 (nominal BEL DME 25) turn left to intercept and follow I-EGN DME 12 arc. At QDM 047° descend to 2500. At lead QDM 063° commence right turn to establish on LOC/FAT. When established continue as for main procedure.

DIRECT ARRIVALS VIA BEL VOR R290/LUNEX HOLD
Arrival not below 3500. Intercept and establish on BEL VOR R290. At BEL R290/D37.4 intercept and follow I-EGN DME 12 arc clockwise. When established and West of QDM 047° descend to not below 2500. At lead QDM 063° turn right to establish on LOC/FAT, then continue as for main procedure.

NOTE 1 Aircraft are permitted to enter the Eglinton CTA areas whilst using these procedures and under the control of Eglinton ATC.

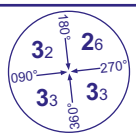
CHANGE (2/24): MSA 7NM SW SECTOR.

AERO INFO DATE 30 NOV 23

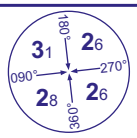
AD 2-EGAE-8-6

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
ILS/DME/NDB(L) RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EGT

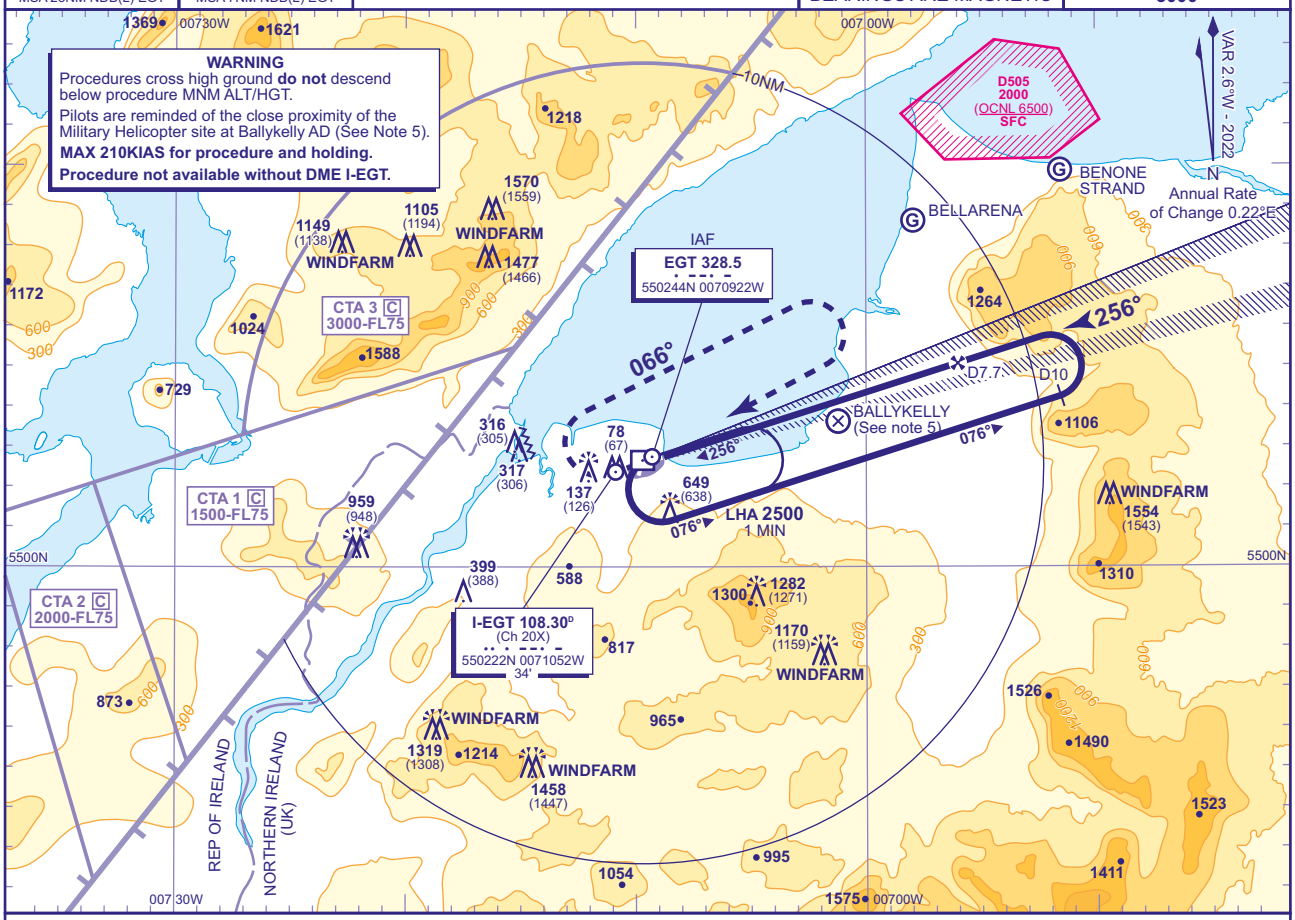


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

AD ELEVATION	23
THR ELEVATION	11
OBSTACLE ELEVATION **1570 AMSL** (1559) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
3000

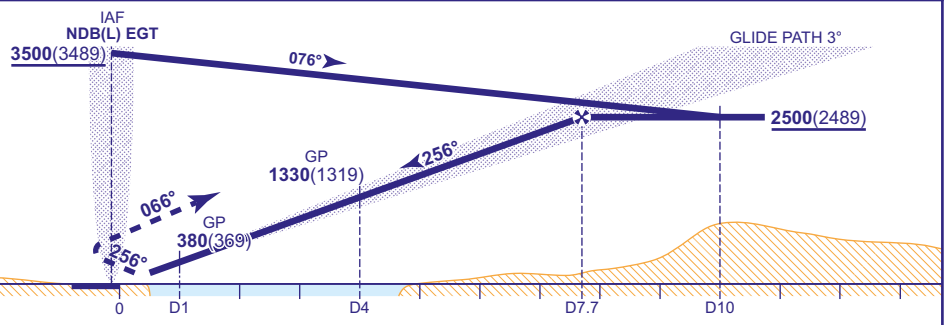


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-EGT	7	6	5	4	3	2	1
ALT(HGT)	**2290**(2279)	**1970**(1959)	**1650**(1639)	**1330**(1319)	**1020**(1009)	**700**(689)	**380**(369)

RDH 50 Arrival **not below 3500**.

Climb straight ahead to **630**, then turn right to track 066° continuing climb to **2500**. On reaching **2500** turn right to **NDB(L) EGT** to hold at **2500** or as directed. MAX 140KIAS (180KIAS CAT C,D) until established on track 066°.



Aircraft Category			A	B	C	D
OCA (OCH)	CAT I	Climb 2.5%	**166**(155)	**173**(162)	**502**(491)	**512**(501)
		Climb 4.0%	**166**(155)	**173**(162)	**183**(172)	**191**(180)
VM(C)OCA (OCH AAL)	Total Area		**950**(927)	**950**(927)	**1740**(1717)	**1740**(1717)
	North of RWY 08/26		**430**(407)	**580**(557)	**720**(697)	**1090**(1067)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

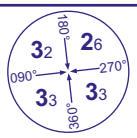
NOTE 1 Lowest altitude to commence procedure from hold is **2500**.
2 DME not usable below **3500** between 140° and 185° due to terrain effects.
3 Seasonal bird migration may be a hazard to aircraft.
4 Approach lights to RWY 26 are over water and reflections are possible.
5 Pilots are reminded of the close proximity of disused airfield Ballykelly, 5NM east of Londonderry. Ballykelly AD has similar RWY directions and pattern to Londonderry. Pilots of aircraft en-route and in the circuit at Londonderry should positively identify Londonderry/Eglinton before committing their aircraft to land.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). VM(C)OCA(OCH AAL). MAP.

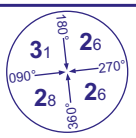
AERO INFO DATE 27 NOV 23

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
LOC/DME/NDB(L) RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EGT

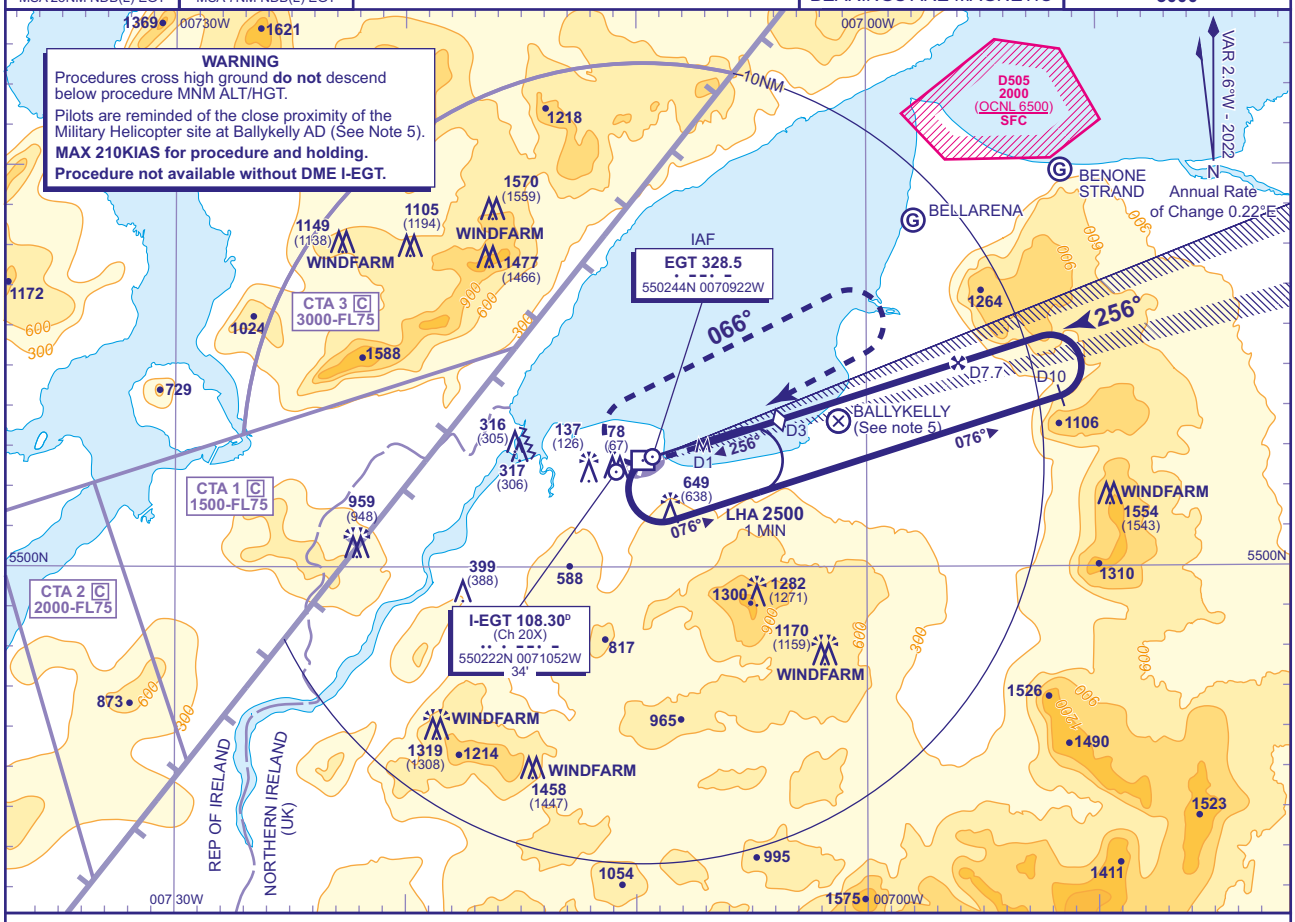


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

AD ELEVATION	23
THR ELEVATION	11
OBSTACLE ELEVATION	**1570 AMSL** (1559) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



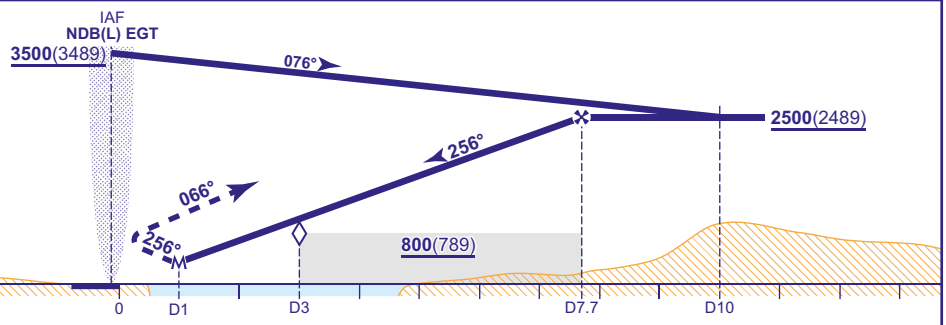
RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

DME I-EGT	7	6	5	4	3 **(SDF)**	2	1
ALT(HGT)	**2290**(2279)	**1970**(1959)	**1650**(1639)	**1330**(1319)	**1020**(1009)	**700**(689)	**380**(369)

Arrival **not below 3500**.

MAPt I-EGT DME 1

Climb straight ahead to **630**, then turn right to track 066° continuing climb to **2500**. On reaching **2500** turn right to **NDB(L) EGT** to hold at **2500** or as directed. MAX 140KIAS (180KIAS CAT C,D) until established on track 066°.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**380**(369)	**380**(369)	**480**(469)	**480**(469)
VM(C)OCA (OCH AAL)	**Total Area**	**950**(927)	**950**(927)	**1740**(1717)	**1740**(1717)
	North of RWY 08/26	**430**(407)	**580**(557)	**720**(697)	**1090**(1067)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

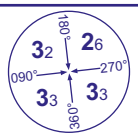
NOTE 1 Lowest altitude to commence procedure from hold is **2500**.
2 DME not usable below **3500** between 140° and 185° due to terrain effects.
3 Seasonal bird migration may be a hazard to aircraft.
4 Approach lights to RWY 26 are over water and reflections are possible.
5 Pilots are reminded of the close proximity of disused airfield Ballykelly, 5NM east of Londonderry. Ballykelly AD has similar RWY directions and pattern to Londonderry. Pilots of aircraft en-route and in the circuit at Londonderry should positively identify Londonderry/Eglinton before committing their aircraft to land.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). VM(C)OCA(OCH AAL). MAP.

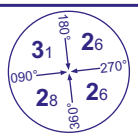
AERO INFO DATE 27 NOV 23 AD 2-EGAE-8-8

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
NDB(L)/DME
RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EGT

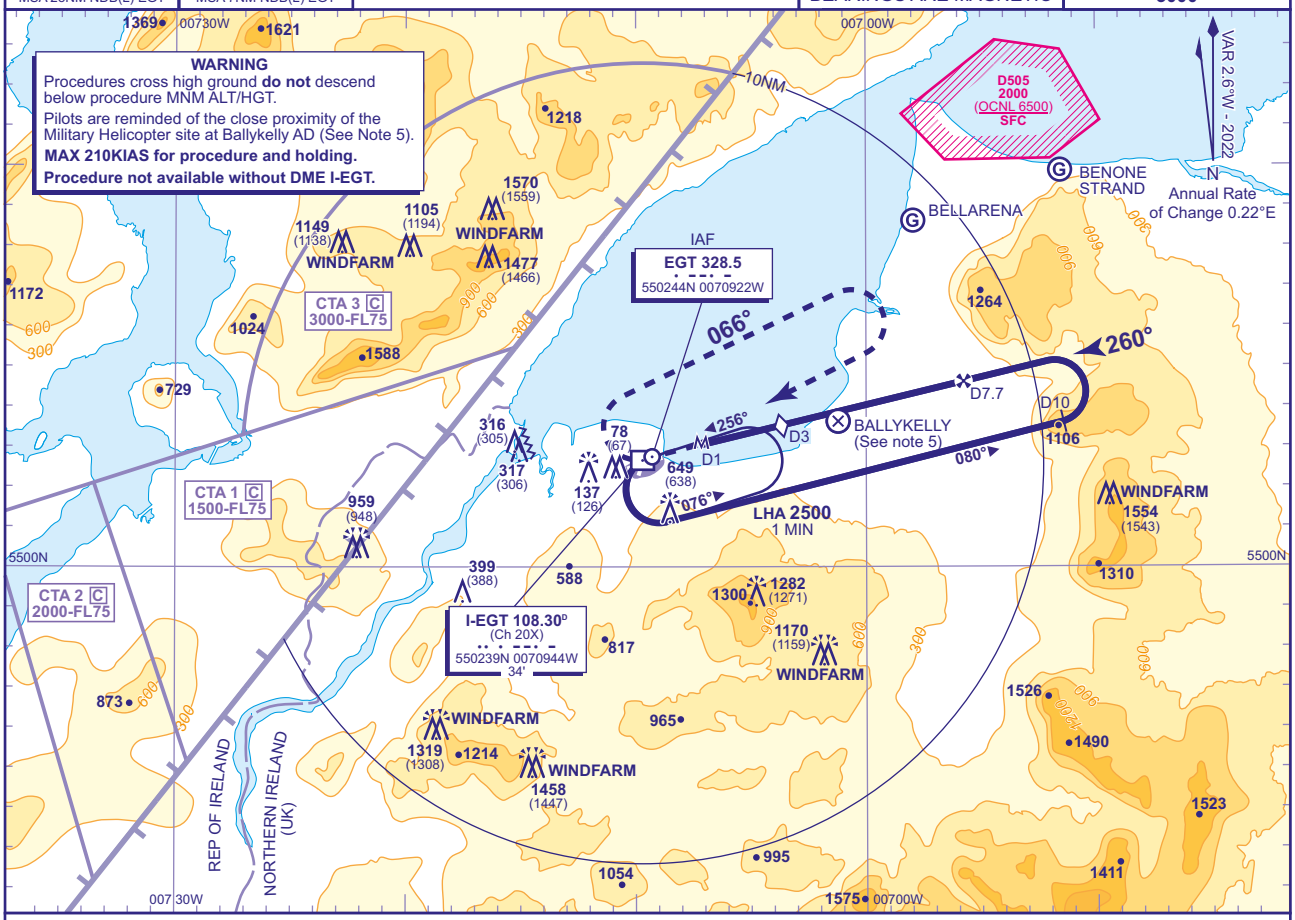


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

AD ELEVATION	23
THR ELEVATION	11
OBSTACLE ELEVATION **1570 AMSL** (1559) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
3000



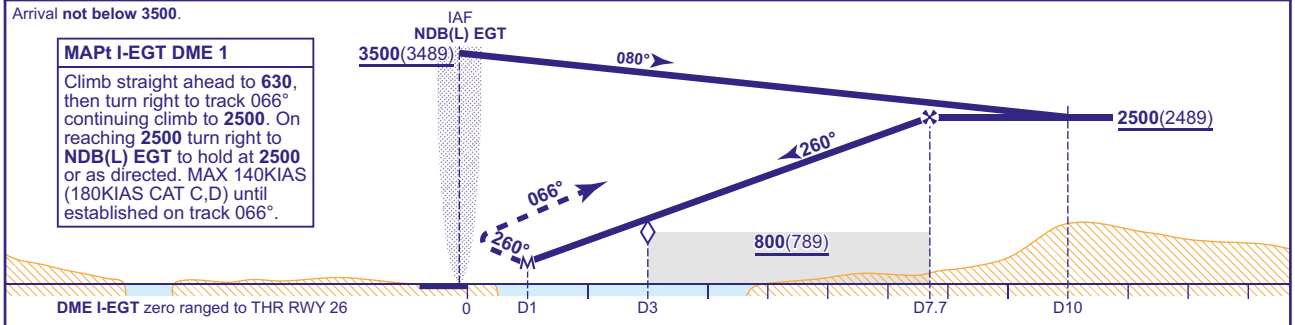
RECOMMENDED PROFILE Gradient 5.2%, 317FT/NM

DME I-EGT	7	6	5	4	3 (SDF)	2
ALT(HGT)	**2280**(2269)	**1960**(1949)	**1640**(1629)	**1330**(1319)	**1010**(999)	**690**(679)

Arrival **not below 3500**.

MAPt I-EGT DME 1

Climb straight ahead to **630**, then turn right to track 066° continuing climb to **2500**. On reaching **2500** turn right to **NDB(L) EGT** to hold at **2500** or as directed. MAX 140KIAS (180KIAS CAT C,D) until established on track 066°.



Aircraft Category		A	B	C	D
OCA (OCH)	Climb 2.5%	**520**(509)	**520**(509)	**570**(559)	**570**(559)
	Climb 4.0%	**460**(449)	**460**(449)	**480**(469)	**480**(469)
VM(C)OCA (OCH AAL)	Total Area	**950**(927)	**950**(927)	**1740**(1717)	**1740**(1717)
	North of RWY 08/26	**430**(407)	**580**(557)	**720**(697)	**1090**(1067)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	630	530	420

NOTE 1 Lowest altitude to commence procedure from hold is **2500**.
2 DME not usable below **3500** between 140° and 185° due to terrain effects.
3 Seasonal bird migration may be a hazard to aircraft.
4 Approach lights to RWY 26 are over water and reflections are possible.
5 Pilots are reminded of the close proximity of disused airfield Ballykelly, 5NM east of Londonderry. Ballykelly AD has similar RWY directions and pattern to Londonderry. Pilots of aircraft en-route and in the circuit at Londonderry should positively identify Londonderry/Eglinton before committing their aircraft to land.
6 FAT offset 3.8° from RWY C/L.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA EGT HOLD. OCA(OCH). VM(C)OCA(OCH AAL). MAP.

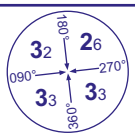
AERO INFO DATE 27 NOV 23

AD 2-EGAE-8-9

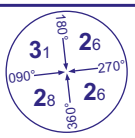
I

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
Direct Arrivals
ILS/DME/NDB(L)
RWY 26
(ACFT CAT A,B,C,D)



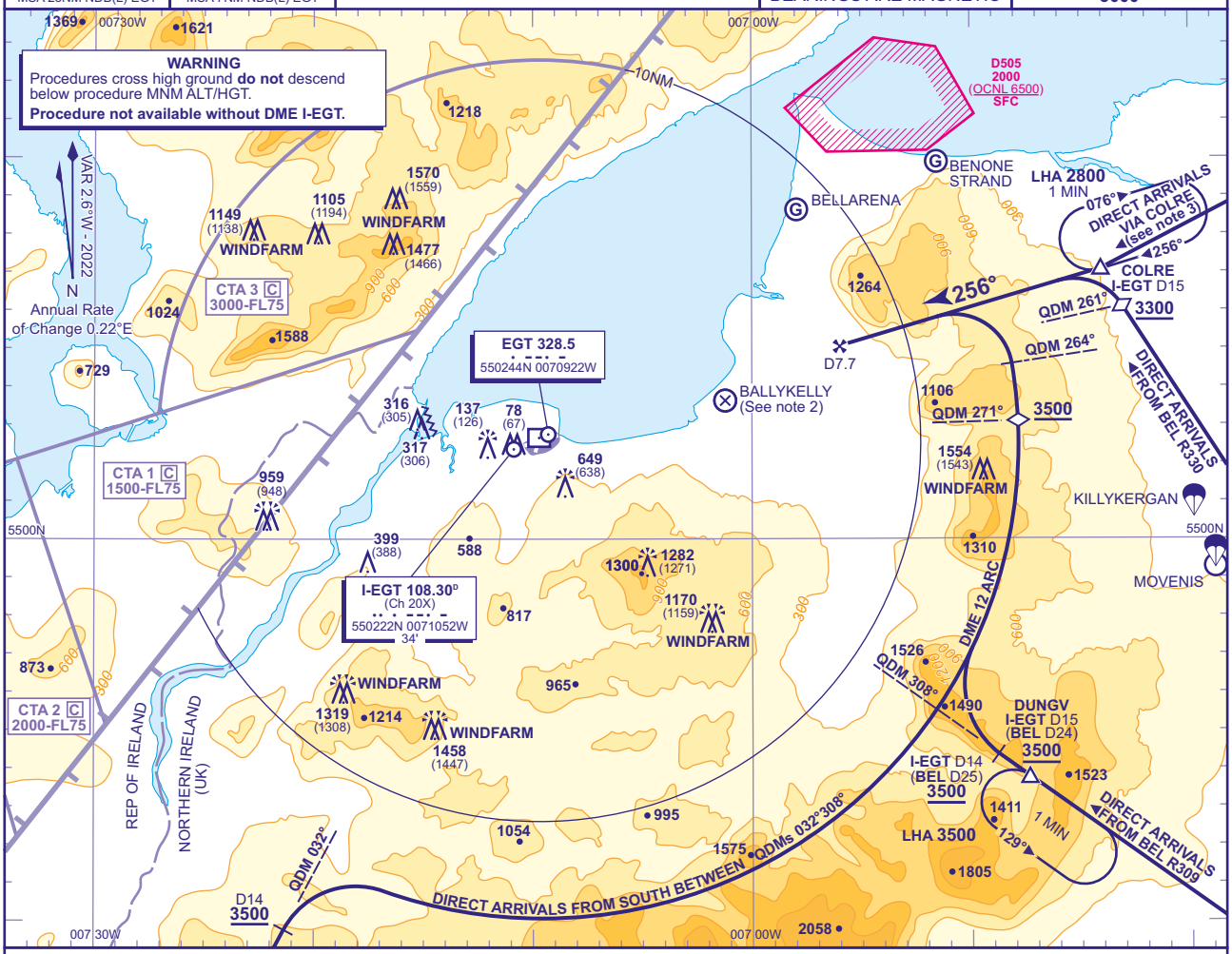
MSA 25NM NDB(L) EGT



MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	AD ELEVATION	23
TWR	134.155	EGLINTON TOWER	THR ELEVATION	11
ATIS	119.380	EGLINTON INFORMATION	OBSTACLE ELEVATION **1570 AMSL** (1559) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



DIRECT ARRIVALS VIA COLRE HOLD
Arrival **not below MSA**. Intercept and establish on LOC. When established, descend to **2500**(2489) by the FAF/FAP, then continue as for the main procedure.

DIRECT ARRIVALS VIA BEL VOR R330
Arrival **not below MSA**. Intercept and establish on BEL VOR R330. From lead QDM NDB(L) EGT 261° (nominal BEL DME 31.3) turn left to establish on LOC. When established, descend to **2500**(2489) by the FAF/FAP, then continue as for main procedure.

DIRECT ARRIVALS VIA COLRE (see note 3)
Arrival **not below MSA** to intercept and follow direct track to COLRE to establish on LOC (nominal intercept at I-EGT DME 15/MAC DME 41.7). When established, descend to **2500**(2489) by the FAF/FAP, then continue as for main procedure.

DIRECT ARRIVALS FROM SOUTH VIA I-EGT DME 12 ARC
Arrival between NDB(L) EGT QDM 032° to 308° anticlockwise **not below 3500**. After passing I-EGT DME 14 turn right to establish on I-EGT DME 12 arc anticlockwise. At QDM 271° descend to **2500**. At lead QDM 264° commence left turn to establish on LOC. When established continue as for main procedure.

DIRECT ARRIVALS VIA BEL VOR R309/DUNGV HOLD
Arrival **not below 3500**. Intercept and establish on BEL VOR R309. At I-EGT DME 14 (nominal BEL DME 25) turn right to intercept and follow I-EGT DME 12 arc. At QDM 271° descend to **2500**. At lead QDM 264° commence left turn to establish on LOC. When established continue as for main procedure.

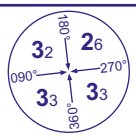
NOTES
1. DME not usable below **3500** between 140° and 185° due to terrain effects.
2. Pilots are reminded of the close proximity of disused airfield Ballykelly, 5NM east of Londonderry. Ballykelly AD has similar RWY directions and pattern to Londonderry. Pilots of aircraft en-route and in the circuit at Londonderry should positively identify Londonderry/Eglinton before committing their aircraft to land.
3. Direct Arrivals via COLRE subject to approval from Eglinton ATC.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA COLRE HOLD.

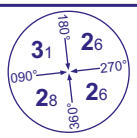
AERO INFO DATE 27 NOV 23 AD 2-EGAE-8-10

INSTRUMENT APPROACH CHART - ICAO

LONDONDERRY/EGLINTON
Direct Arrivals NDB(L)/DME RWY 26
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) EGT

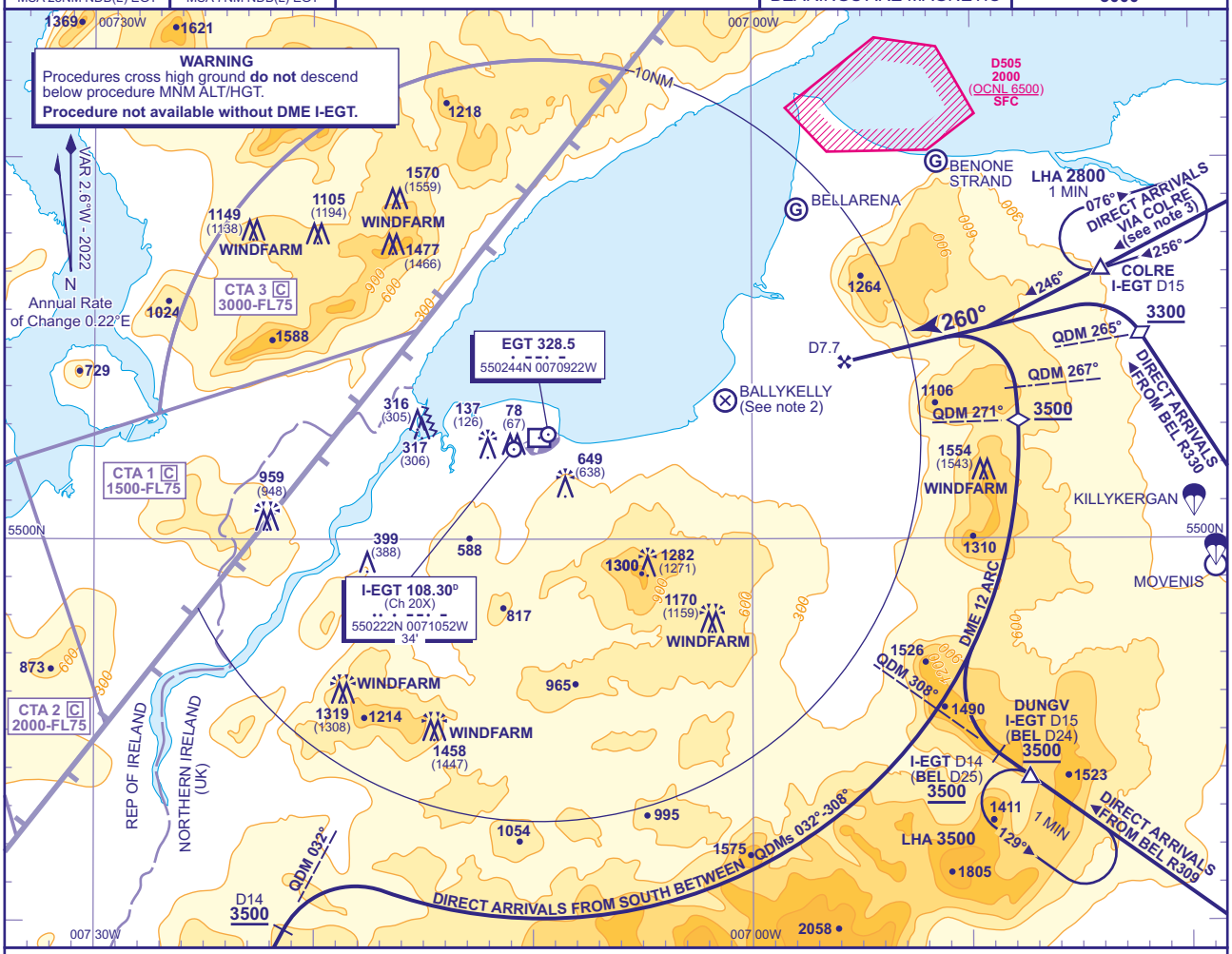


MSA 7NM NDB(L) EGT

APP	123.625	EGLINTON APPROACH	
TWR	134.155	EGLINTON TOWER	
ATIS	119.380	EGLINTON INFORMATION	

AD ELEVATION	23
THR ELEVATION	11
OBSTACLE ELEVATION	1570 AMSL (1559) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



DIRECT ARRIVALS VIA COLRE HOLD
Arrival **not below MSA**. From COLRE continue on track 246° to establish on FAT (nominal intercept at I-EGT DME 11.4/MAC DME 45.3). When established, descend to **2500**(2489) by the FAF, then continue as for main procedure.

DIRECT ARRIVALS VIA BEL VOR R330
Arrival **not below MSA**. Intercept and establish on BEL VOR R330. From lead QDM NDB(L) EGT 265° (nominal BEL DME 30.4) turn left to establish on FAT. When established, descend to **2500**(2489) by the FAF, then continue as for main procedure.

DIRECT ARRIVALS VIA COLRE (see note 3)
Arrival **not below MSA** to intercept and follow direct track to COLRE. Continue on track 246° to establish on FAT (nominal intercept at I-EGT DME 11.4/MAC DME 45.3). When established, descend to **2500**(2489) by the FAF, then continue as for main procedure.

DIRECT ARRIVALS FROM SOUTH VIA I-EGT DME 12 ARC
Arrival between NDB(L) EGT QDM 032° to 308° anticlockwise **not below 3500**. After passing I-EGT DME 14 turn right to establish on I-EGT DME 12 arc anticlockwise. At QDM 271° descend to **2500**. At lead QDM 267° commence left turn to establish on FAT. When established continue as for main procedure.

DIRECT ARRIVALS VIA BEL VOR R309/DUNGV HOLD
Arrival **not below 3500**. Intercept and establish on BEL VOR R309. At I-EGT DME 14 (nominal BEL DME 25) turn right to intercept and follow I-EGT DME 12 arc. At QDM 271° descend to **2500**. At lead QDM 267° commence left turn to establish on FAT. When established continue as for main procedure.

NOTES
1. DME not usable below **3500** between 140° and 185° due to terrain effects.
2. Pilots are reminded of the close proximity of disused airfield Ballykelly, 5NM east of Londonderry. Ballykelly AD has similar RWY directions and pattern to Londonderry. Pilots of aircraft en-route and in the circuit at Londonderry should positively identify Londonderry/Eglinton before committing their aircraft to land.
3. Direct Arrivals via COLRE subject to approval from Eglinton ATC.

CHANGE (2/24): MSA 7NM SW SECTOR. LHA COLRE HOLD.

AERO INFO DATE 27 NOV 23

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EGMD — LYDD

EGMD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGMD — LYDD

EGMD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 505722N Long: 0005620E Mid-point of Runway 03/21
2	Direction and distance from city	1.2 NM NE of Lydd; 12 NM south of Ashford.
3	Elevation / Reference temperature / Mean Low Temperature	13 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	146 FT
5	Magnetic Variation / Annual Change	0.92°E (2022) / 0.19°E
6	AD Administration Address Telephone Telefax AFS E-mail address Web address	LONDON ASHFORD AIRPORT LTD. Lydd Airport, Lydd, Romney Marsh, Kent, TN29 9QL. 01797-322400 (Airport Switchboard) 01797-320881 (ATC) 01797-322422 (MET) 528-2528 (ATOTN) 01797-322419 (Administration) EGMDZTZX info@lydd-airport.co.uk www.lydd-airport.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGMD AD 2.3 OPERATIONAL HOURS

1	AD Administration	0830-1900 (0730-1800); extensions by arrangement.
2	Customs and immigration	As AD hours.
3	Health and sanitation	As AD hours.
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	As AD hours.
7	ATS	As AD hours. See also AD 2.18
8	Fuelling	Available up to 15 minutes before closing.
9	Handling	Available by arrangement through FAL Aviation.
10	Security	H24
11	De-icing	By arrangement through FAL Aviation.
12	Remarks	All movements strictly PPR by telephone to ATC. Caution SAR helicopter and UAS operations may take place when AD is closed. Electronic General Aviation Report may be processed via the Pilot Information section of the Lydd Airport website.

EGMD AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement with FAL Aviation 01797-322400. Nearest railway siding: Appledore, 6 NM.
2	Fuel and oil types	AVTUR JET A-1 F35 (does not contain AL48), AVTUR JET A-1 F34 (FSII), AVGAS 100LL Castrol AD 80, AD100, S80, S100, Mulitgrade.
3	Fuelling facilities/capacity	AVTUR JET A-1 F34/F35 54,000 LT, mobile capacity 36,000 LT. AVGAS 100LL 54,000 LT, mobile capacity 13,000 LT. No aircraft defuelling services available.
4	De-icing facilities	By arrangement with handling agent.
5	Hangar space for visiting aircraft	By arrangement.
6	Repair facilities for visiting aircraft	Yes. Eagle Aero Engineering, Tel: 01797-322490.

7	Remarks	Fuel Type: FSII additive available separately on request. Handling is mandatory for aircraft larger than 4000 KG MTOW. Training or military aircraft may be exempted from this requirement. Handling provided by: FAL Aviation Ltd. Tel: 01797-322400, Fax: 01797-322419 Email: FAL@lydd-airport.co.uk Website: www.lydd-airport.co.uk Ops Frequency: 131.705 MHz, callsign FAL Operations.

EGMD AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the vicinity. By arrangement through FAL Aviation.
2	Restaurants	Restaurant and bar in terminal. VIP/Executive catering by arrangement through FAL Aviation.
3	Transportation	Trains, buses, taxis, limousines and car hire. Nearest railway stations: Ashford International and Appledore.
4	Medical facilities	First aid, oxygen therapy, defibrillator, entonox analgesic gas.
5	Bank and Post Office	Post box in terminal.
6	Tourist Office	Local information available in terminal.
7	Remarks	Executive lounge in FAL terminal building.

EGMD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3, 4 or 5 available by arrangement. The aircraft operator shall accept responsibility for ensuring that the Fire Category is appropriate to their particular operation. Occasionally Category 2 may be provided for Category 3 under remission.
2	Rescue equipment	Standard equipment for Category 1 to Category 5.
3	Capability for removal of disabled aircraft	By arrangement with local removal company.
4	Remarks	

EGMD AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Latest information from: ATC Tel: 01797-320881.

EGMD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	B Surface: Asphalt PCN 46/F/C/X/T C Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A AND D: 10.5 M Surface: Asphalt Taxiway B AND C: 18 M Surface: Asphalt PCN 46/F/C/X/T
3	Altimeter checkpoint location and elevation	Apron 10 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Charts
6	Remarks	

EGMD AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Apron Bravo has 6 self-manoeuvring stands for aircraft up to B737-800 dimensions. Apron Charlie is available to GA aircraft, with apron taxilanes marking out 3 rows. Apron Delta is available to light aircraft as directed by ATC. Marshalling assistance available if required.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 03/21: Runway designation, displaced threshold 21, centre-line, TDZ, fixed distance markings, edge stripes. Taxiway marking aid(s): Yellow centre-line, hatched edge line on Taxiways Bravo and Charlie, holding point markings and boards. Taxiway light(s): Illuminated holding point signs on Taxiways Bravo and Charlie.
3	Stop bars and runway guard lights (if any)	Guard lights at holds Bravo and Charlie.
4	Other runway protection measures	
5	Remarks	WDIs adjacent to touchdown zone for Runways 03 and 21: 505710.54N 0005601.51E (LGTD) - 505735.93N 0005627.55E (LGTD).

EGMD AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGMD3098) 03/APPROACH 21/ TAKE-OFF	SIGN	505656.57N 0005554.45E	18 FT	9 FT	No	
(EGMD3156) 03/APPROACH 21/ TAKE-OFF	FENCE	505655.35N 0005557.51E	16 FT	8 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGMD3121)	PYLON	505804.98N 0005335.56E	167 FT	161 FT	No	
(EGMD3006)	WATER_TOWER	505637.48N 0005633.36E	125 FT	112 FT	No	
(EGMD3131)	PYLON	505636.77N 0005348.65E	198 FT	191 FT	No	
(EGMD3133)	PYLON	505633.96N 0005333.72E	207 FT	192 FT	No	
(EGMD3035)	PYLON	505623.80N 0005403.05E	200 FT	184 FT	No	
(EGMD3050)	PYLON	505512.59N 0005557.24E	206 FT	195 FT	No	
(EGMD3024)	POWER STATION	505448.65N 0005732.88E	267 FT	249 FT	No	

EGMD AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours.

4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	214 Spot winds, 215 low level wx.
8	Supplementary equipment available for providing information	Internet access in Flight Briefing. ATIS 129.230 MHz or 01797-322422.
9	ATS units provided with information	LYDD
10	Additional information (limitation of service, etc.)	RVR by human observer method, only one runway direction available at a time. AUTOMETAR produced outside aerodrome opening hours.

EGMD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
03	032.71°	1505 x 32 M	RWY surface: Asphalt, Grooved PCN 46/F/C/X/T	505701.75N 0005600.11E 146.0 FT	THR 9.9 FT TDZ 12.4 FT	
21	212.72°	1505 x 32 M	RWY surface: Asphalt, Grooved PCN 46/F/C/X/T	505741.75N 0005640.79E 146.0 FT	THR 12.4 FT TDZ 13.2 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	329 x 180 M	1591 x 280 M	90 x 64 M -			RWY 03
	176 x 180 M	1591 x 280 M	240 x 64 M -			RWY 21 Threshold displaced by 35 M to allow for full RESA. OFZ: Yes.

EGMD AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	1470 M	1799 M	1470 M	1470 M	
21	1505 M	1681 M	1505 M	1470 M	

EGMD AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	Centre-line with one crossbar at 305 M. 427 M Light intensity high	Green Light intensity high Elevated uni-directional	PAPI Left/3° 48 FT 273 M			Elev HI white bi-directional with LI omni-directional component	Red Light intensity high		
21	Coded centre-line with two crossbars at 150 M and 300 M. 430 M Light intensity high	Green Light intensity high Uni-directional with elev HI wingbars	PAPI Left/3.5° 60 FT 322 M			Elev HI white bi-directional with LI omni-directional component Yellow caution zone	Red Light intensity high		

EGMD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 505715.76N 0005602.99E Flashing White - On terminal roof.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 505735.99N 0005628.25E (LGTD) - 505710.04N 0005601.81E (LGTD) - 505710.54N 0005601.51E.
3	TWY edge and centre line lighting	EDGE: Blue reflective edge studs on Taxiway Alpha. Blue edge lights on Taxiways Bravo and Charlie.
4	Secondary power supply/switch-over time	Yes / 15 seconds. Battery back-up. In Low Visibility Procedures switch-over time is 1 second.
5	Remarks	Apron floodlighting. Blue edge lights on Apron Bravo. Obstacle lighting. Caution: Taxiway/apron blue edge lights are situated in grass up to 2 M from the edge of hardstanding.

EGMD AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Small helicopters, ie: R22/44, Hu30, AS55, BH06 will be air taxied to park on Apron Bravo. Larger helicopters, ie: SK76, Puma, CH47 will make an approach to the runway in use and ground taxi (if possible) to Apron Bravo.

EGMD AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LYDD ATZ A circle, 2 NM radius, centred at 505722N 0005620E on longest notified runway (03/ 21)	Upper limit: 2000 FT AGL Lower limit: SFC	G	LYDD APPROACH English	6000 FT		

EGMD AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	LYDD APPROACH	120.705 DOC 25 NM/ 10,000 FT.			0830-1900 (0730-1800); extensions by arrangement.	ATZ hours coincident with APP/ TWR hours, but not by arrangement. VDF 505731.18N 0005620.77E
		121.500 Emergency frequency O/R.			0830-1900 (0730-1800); extensions by arrangement.	
TWR	LYDD TOWER	119.380 DOC 25 NM/4,000 FT.			When directed by ATC.	
		121.500 Emergency frequency O/R.			When directed by ATC.	
ATIS	LYDD INFORMATION	129.230 DOC 45 NM/ 20,000 FT.			0830-1900 (0730-1800); extensions by arrangement.	
OTHER	LYDD FIRE	121.600 Non-ATS Frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGMD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.70°E (2027)	ILDY	108.150 MHz	0830-1900 (0730-1800); extensions by arrangement.	505714.15N 0005622.37E		(RWY 21) 5 degree offset - See procedure chart. Training approaches using autocoupled LOC/GP not to be continued below 200 FT.
ILS/GP	ILDY	334.550 MHz	0830-1900 (0730-1800); extensions by arrangement.	505736.04N 0005628.28E		3.5° ILS Ref Datum Hgt 47 FT.
NDB (L) 1.70°E (2027)	LZD	397.000 kHz	H24	505731.71N 0005621.44E		On AD. Range 20 NM.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/DME	ILDY	18Y 108.150 MHz	0830-1900 (0730-1800); extensions by arrangement.	505735.98N 0005628.04E	31 FT	(RWY 21) On AD. Frequency paired with ILS I-LDY. Zero range to THR of Runway 21. DOC 25 NM/10,000 FT.

EGMD AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) This aerodrome is not available to aircraft unable to communicate by radio with ATC.
b) Practice EFATO in single-engined piston aeroplanes will not be permitted on Runway 03 at any time, or on Runway 21 when a train is passing through the overshoot.
c) High visibility clothing must be worn on the apron and manoeuvring area at all times except for passengers under escort.

2 GROUND MOVEMENT

a) The responsibility for wingtip clearance during taxiing and parking remains with the flight crew.
b) Apron Bravo is available to aircraft up to B737, A319, helicopters and for long stay parking.
c) Apron Charlie is available for light aircraft parking.
d) Marshalling assistance may be available if required.
e) Taxiways Alpha and Delta are only available to aircraft with MTOW not exceeding 5700 KG. Taxiway Alpha is restricted to aircraft with a wingspan not exceeding 15 M.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Caution, Lydd Ranges EGD044 and Hythe Ranges EGD141. DAAIS available on 120.705 MHz and ATIS on 129.230 MHz.
b) Aircraft departing from or intending to land at Lydd shall remain at least 1.5 NM from Dungeness Power Station 505449N 0005717E (ENR 5.1 refers).
c) Instrument transitional surface infringed by terminal building. Maximum penetration 1.54 M
d) ATC procedures will be applied to ensure deconfliction of aircraft movements and the very infrequent trains that utilise the NW-SE orientated railway track 187 M SW of Runway 03 threshold.

5 HELICOPTER OPERATIONS

a) All helicopters shall use Runway 03/21 for landing or take-off, with minimum possible runway occupancy time.
b) Light helicopters e.g R44, B06, EC145, will air taxi to/from Apron B as directed by ATC.
c) Larger helicopters shall (if equipped with wheeled undercarriage) ground taxi to/from Apron B in order to minimise downwash to other taxiing or parked aircraft.
d) Helicopters should avoid overflying built up areas when joining or departing the airport.
e) Helicopter training circuits will normally be LH on Runway 21 and RH on Runway 03, but may be varied by ATC. Circuit height 1000 FT QNH.
f) Fuel is delivered to stand by mobile bowser. Rotors-running refuel available on request to SAR, Police, Air Ambulance, Military helicopters when operating on high priority flights.

6 USE OF RUNWAYS

a) Aircraft will carry out power checks at Hold B or C as directed by ATC.
b) Light aircraft circuits are normally LH on Runway 21; RH on Runway 03, but may be varied by ATC. Aircraft above 5700 KG MTOW RH on Runway 21; LH on Runway 03. Circuit height 1000 FT QNH.
c) Except where a public transport operator has a lower State authorised minima, the Aerodrome Authority cannot approve departures in RVR conditions of less than 400 M.

7 TRAINING

a) The number of aircraft in the visual circuit will be determined by ATC subject to prevailing weather conditions and other commercial or corporate traffic. A ‘waiting list’ system will be introduced during busy periods during which pilots will be advised of their number in the queue and the approximate delay before they commence circuit training.
b) The following training is PPR through ATC by telephone 01797-320881 or 322417.

i. ILS, RNAV and NDB practise instrument approaches;
ii. Circuit training by non-based aircraft;
iii. Qualifying Cross Country inbound flights.

EGMD AD 2.21 NOISE ABATEMENT PROCEDURES

a) Operators of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable to surrounding areas. The following Noise Procedures and Routings will apply to all aircraft, unless otherwise instructed by ATS, whether landing, taking-off or 'going around' in both VMC and IMC. These requirements may be departed from to the extent necessary for avoiding immediate danger. These noise routeing procedures are supplementary to the noise abatement take-off techniques as used by piston engined, turbo-prop and turbo jet aircraft and laid down in their Operations Manual.

i. Take-Off Runway 03

Climb straight ahead to at least 500 FT; or until passing upwind end of runway, whichever is later, before turning right or left as instructed by ATC.

ii. Take-Off Runway 21

Climb straight ahead to at least 500 FT or until passing upwind end of the runway, whichever is later, before turning left or right as instructed by ATC. Aircraft turning left are to maintain a track which will ensure they remain at least 1.5 NM clear of the Dungeness Power Station. Caution, remain clear of EGD044 if active.

iii. Landing Runways 03 and 21

An aircraft approaching to land shall not descend below the PAPI indicated approach slope of 3 ° (Runway 03) or 3.5 ° (Runway 21).

EGMD AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR ARRIVING AIRCRAFT

a) VFR Arrivals

i. Inbound VFR aircraft should make their initial call for joining instructions before reaching Rye (9 NM West of Lydd), Tenterden (15 NM NW), Ashford (12 NM N), Folkestone (12 NM NE) or 10 NM to Lydd if approaching over the sea.
ii. Pilots are responsible for their own separation from EGD141, EGD044, EGR063 and the runway final approach/departure areas, although ATC may provide assistance.
iii. Basic Service will be provided by default
iv. Lydd VFR transponder conspicuity code 7066 should be selected if possible. It should be noted that Lydd is not radar equipped and is unable to provide any form of surveillance. The transponder code is to assist neighbouring ATS Units.
v. Joining aircraft will be requested to report at 4 NM to the Lydd overhead (NB not to the LYD VOR)
vi. Light aircraft joining via Rye, Tenterden, Ashford or those routeing inland from Folkestone will, unless otherwise instructed, join overhead at 1500 FT QNH, descend crosswind, and turn downwind at 1000 FT. DO NOT DESCEND DEADSIDE.
vii. Aircraft inbound from E, SE or S, having made the 4 mile report, can anticipate instructions to join the circuit downwind or base leg, subject to traffic.

b) IFR Arrivals - from Airways/Controlled Airspace

i. The appropriate LACC sector will normally coordinate an acceptance level at Lydd in advance of release and transfer of communication. The initial approach fix and instrument procedure will be confirmed by Lydd Approach once the aircraft has been released by London, this usually coinciding with leaving CAS by descent.
ii. The ILS is the preferred instrument approach when runway 21 is in use, or if 03 is in use for landing and take-off but EGD044 is active. ILS approaches may be flown via ROMTI, a 14 DME arc direct arrival or via LZD (then outbound track 001°) depending on direction of arrival, order of traffic and the distance of the aircraft to Lydd when released. Late release to Lydd Approach reduces the number of options available to the controller.
iii. When runway 03 is in use, and EGD044 is not active, the preferred instrument approach is RNAV (GNSS) Runway 03.
iv. Visual approaches or IFR cancellation and subsequent VFR approach may be accepted, subject to traffic and weather.
v. Procedural Service will be provided by default unless IFR is cancelled.
vi. Lydd IFR transponder conspicuity code 7067 will be allocated when outside CAS. No form of surveillance service is available.

c) IFR Arrivals – Outside Controlled Airspace

i. Arrivals from outside controlled airspace are to establish communication by 20 NM to Lydd whenever possible, the type of approach requested, with an estimate for the initial approach fix.
ii. Sub paragraphs (b) (ii) to (b) (vi) above are also applicable to this section.
iii. Due to the unpredictable nature of traffic levels in Class G airspace and because radar is not available, controllers may have to direct aircraft to the hold, give deconfliction instructions that the pilot might not have at first expected, or utilize VMC climb/descent techniques when appropriate.

iv. Practise instrument approaches are PPR by telephone to ATC 01797-320881 or 322417

2 PROCEDURES FOR DEPARTING AIRCRAFT

a) VFR Departures

i. Aircraft that have not filed a flight plan may 'Book out' on the radio. Pilots should listen to ATIS 129.230 MHz before calling the appropriate ATC frequency.
ii. When making the initial call, pilots should end their message with "Outbound" if landing away, "Local" if departing and landing back at Lydd or "Circuits" if for circuit training. Once ATC has responded, the flight details are to be passed. Aircraft departing 'local' are to state persons on board and initial direction of departure.
iii. VFR departures will be provided with Basic Service by default.
iv. Lydd VFR Transponder conspicuity code 7066 should be operated if possible.
v. Aircraft will be transferred to an onward ATS frequency at reporting points Rye, Tenterden , Ashford, Folkestone or 10 miles E or SE as appropriate to the direction of flight.

b) IFR Departures via Airways/Controlled Airspace

i. Pilots shall request start up after listening to ATIS, and with regard to any CTOT issued by DNM. The take-off time tolerance applied by controllers is CTOT –5/+10 minutes.
ii. A Procedural Service will be provided by default.
iii. As Lydd is situated in Class G airspace, it does not have Standard Instrument Departure Procedures. However, pilots may anticipate the following initial routes to join controlled airspace:

Departure to	Via	Route
N	N57	DET
NE/E	L10/Q63/Y803	DVR
SW/W	Y803	SFD
SW/S	M189	HASTY or WAFFU

iv. London ACC may occasionally offer Lydd ATC other waypoints according to the traffic situation.
v. In order to avoid amending a clearance to account for a changing traffic situation, pilots can expect an airways clearance to be passed during taxi or when at the holding point. The clearance will comprise the initial clearance limit (route), level, squawk, and airways contact frequency.

c) IFR Departures Outside Controlled Airspace

i. Flights not operating on a flight plan may be 'booked out' as for VFR departures.
ii. Unless otherwise requested, a Basic Service will be provided to aircraft landing away and a Procedural Service to training aircraft departing straight into an approach procedure.
iii. Lydd IFR transponder code 7067 will only be applied to local training flights going straight into an instrument approach procedure.
iv. Lydd transponder conspicuity code 7066 will be operated by aircraft landing away, or local training flights conducting general handling on a basic service. This includes VMC training flights at night.
v. ATC will endeavour to approve the requested route/level unless the traffic situation requires otherwise for separation purposes, when a Procedural Service has been requested by the pilot.

EGMD AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGMD AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGMD-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGMD-2-2
INSTRUMENT APPROACH CHART RNP RWY 03 (CAT A,B,C) - ICAO
AD 2.EGMD-8-1
INSTRUMENT APPROACH CHART OFFSET ILS/DME RWY 21 (CAT A,B,C) - ICAO
AD 2.EGMD-8-2
INSTRUMENT APPROACH CHART RNP Y RWY 21 (CAT A,B) - ICAO
AD 2.EGMD-8-3
INSTRUMENT APPROACH CHART RNP Z RWY 21 (CAT C) - ICAO
AD 2.EGMD-8-4

INSTRUMENT APPROACH CHART NDB(L) DME RWY 21 (CAT A,B) - ICAO
AD 2.EGMD-8-5
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 03
AD 2.EGMD-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP Y RWY 21
AD 2.EGMD-8-7
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP Z RWY 21
AD 2.EGMD-8-8

EGMD AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 505722N 0005620E

AD ELEV 13FT

LYDD
EGMD

RUNWAY/APRON/TAXIWAY PHYSICAL CHARACTERISTICS			
RWY / APRON / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 03/21	Grooved Asphalt	46/F/C/X/T	-
Apron B	Asphalt	46/F/C/X/T	10 ft amsl
Apron C	Asphalt	-	-
TWY A & D	Asphalt	-	-
TWY B & C	Asphalt	46/F/C/X/T	-

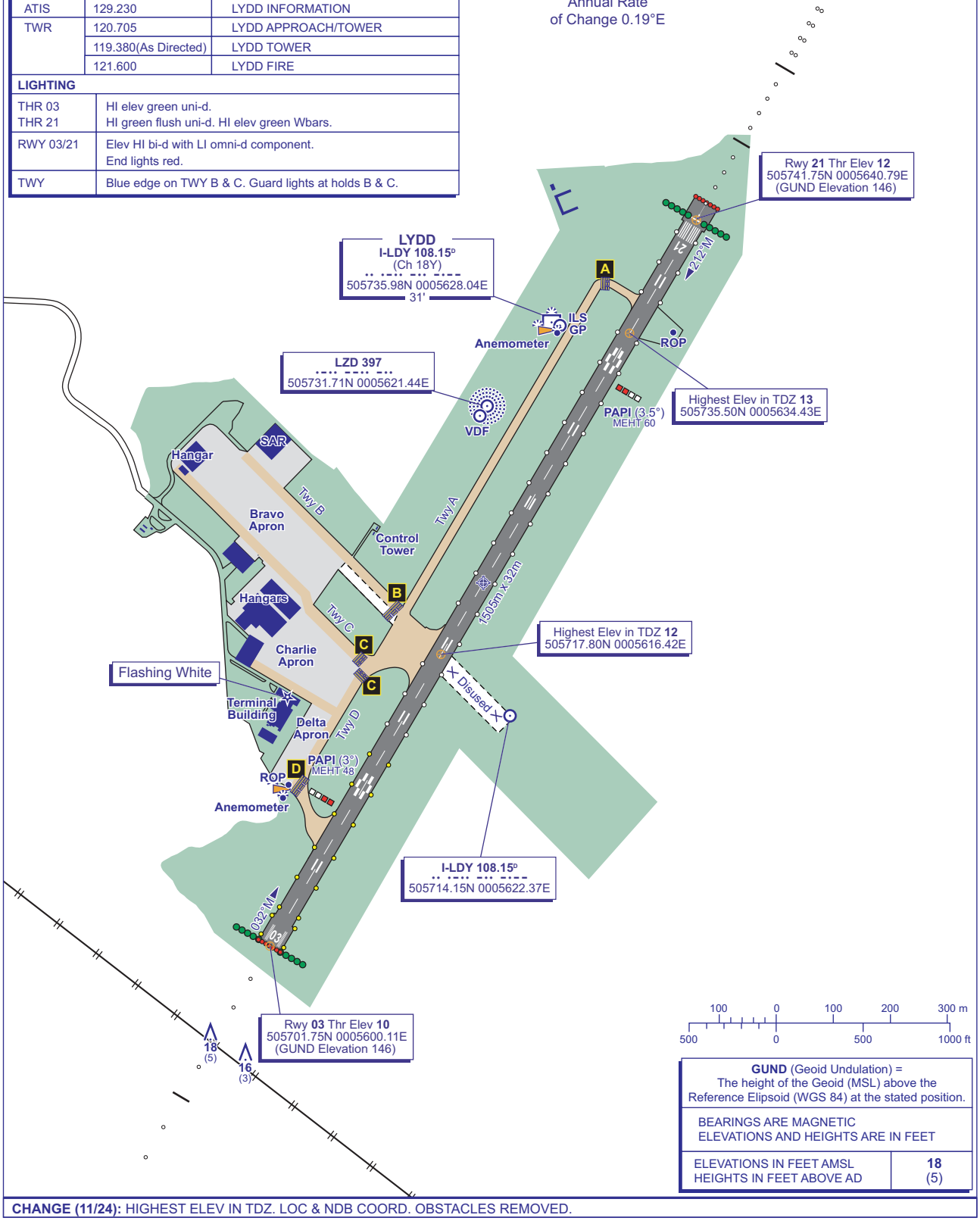
COM		
ATIS	129.230	LYDD INFORMATION
TWR	120.705	LYDD APPROACH/TOWER
	119.380(As Directed)	LYDD TOWER
	121.600	LYDD FIRE

LIGHTING	
THR 03 THR 21	HI elev green uni-d. HI green flush uni-d. HI elev green Wbars.
RWY 03/21	Elev HI bi-d with LI omni-d component. End lights red.
TWY	Blue edge on TWY B & C. Guard lights at holds B & C.

VAR 0.9°E - 2022

N

Annual Rate of Change 0.19°E



GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	18 (5)

CHANGE (11/24): HIGHEST ELEV IN TDZ. LOC & NDB COORD. OBSTACLES REMOVED.

AERO INFO DATE 19 AUG 24

AD 2-EGMD-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 505722N 0005620E

AD ELEV 13FT

LYDD
EGMD

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	46 (33)

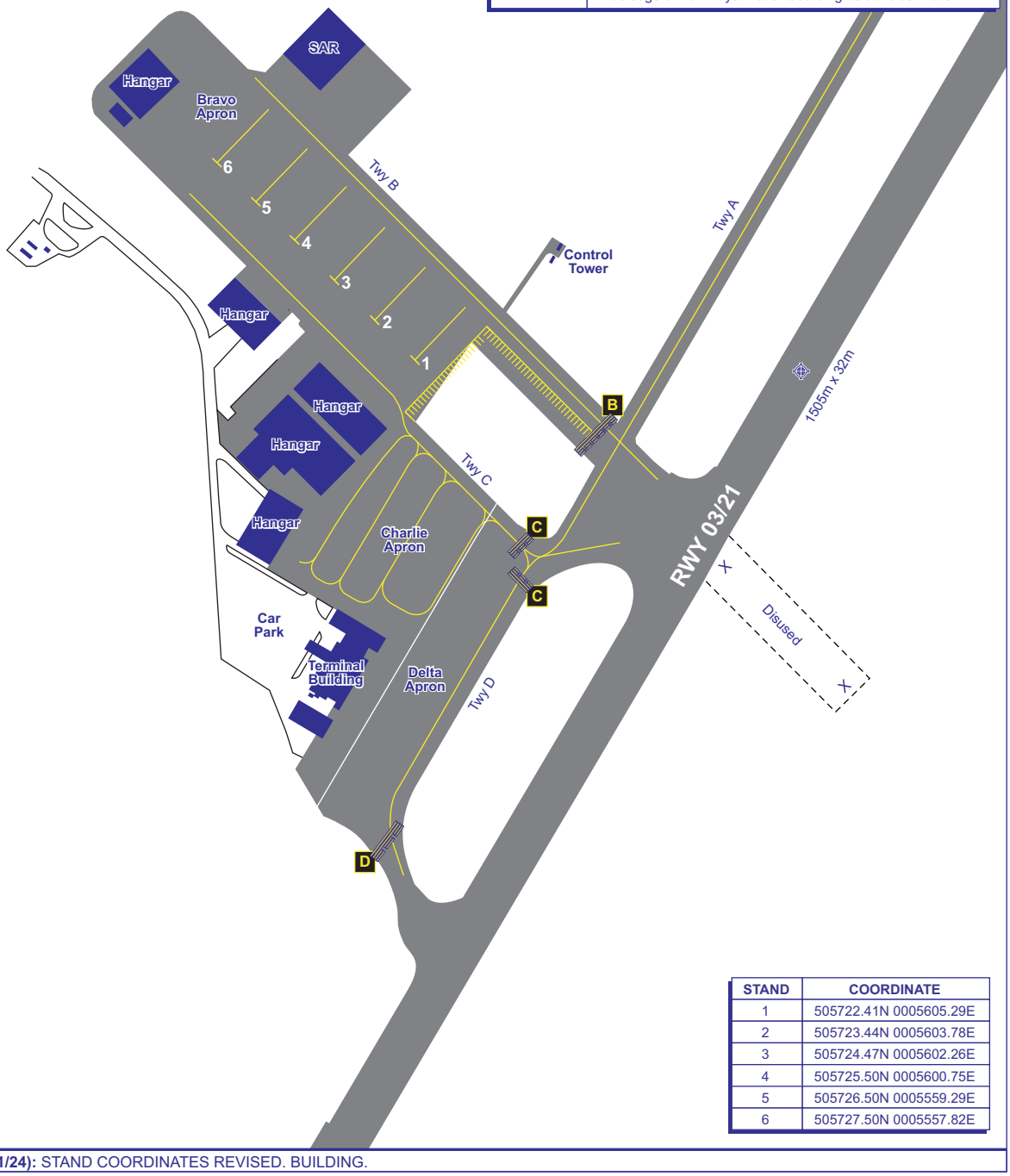
50 0 50 100 150m
100 0 100 200 300 400 500ft

VAR 0.9°E - 2022
N
Annual Rate of Change 0.19°E

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 03/21	Grooved Asphalt	46/F/C/X/T	-
Apron B	Asphalt	46/F/C/X/T	10ft amsl
Apron C	Asphalt	-	-
Taxiways A & D	Asphalt	-	-
Taxiways B & C	Asphalt	46/F/C/X/T	-

COM		
ATIS	129.230	LYDD INFORMATION
TWR	120.705	LYDD APPROACH/TOWER
	119.380(As Directed)	LYDD TOWER
	121.600	LYDD FIRE

LIGHTING	
THR 03 THR 21	HI elev green uni-d. HI green flush uni-d. HI elev green Wbars.
RWY 03/21	Elev HI bi-d with LI omni-d component. End lights red.
TWY	Blue edge on Taxiways B & C. Guard lights at holds B & C.



STAND	COORDINATE
1	505722.41N 0005605.29E
2	505723.44N 0005603.78E
3	505724.47N 0005602.26E
4	505725.50N 0005600.75E
5	505726.50N 0005559.29E
6	505727.50N 0005557.82E

CHANGE (11/24): STAND COORDINATES REVISED. BUILDING.

AERO INFO DATE 19 AUG 24

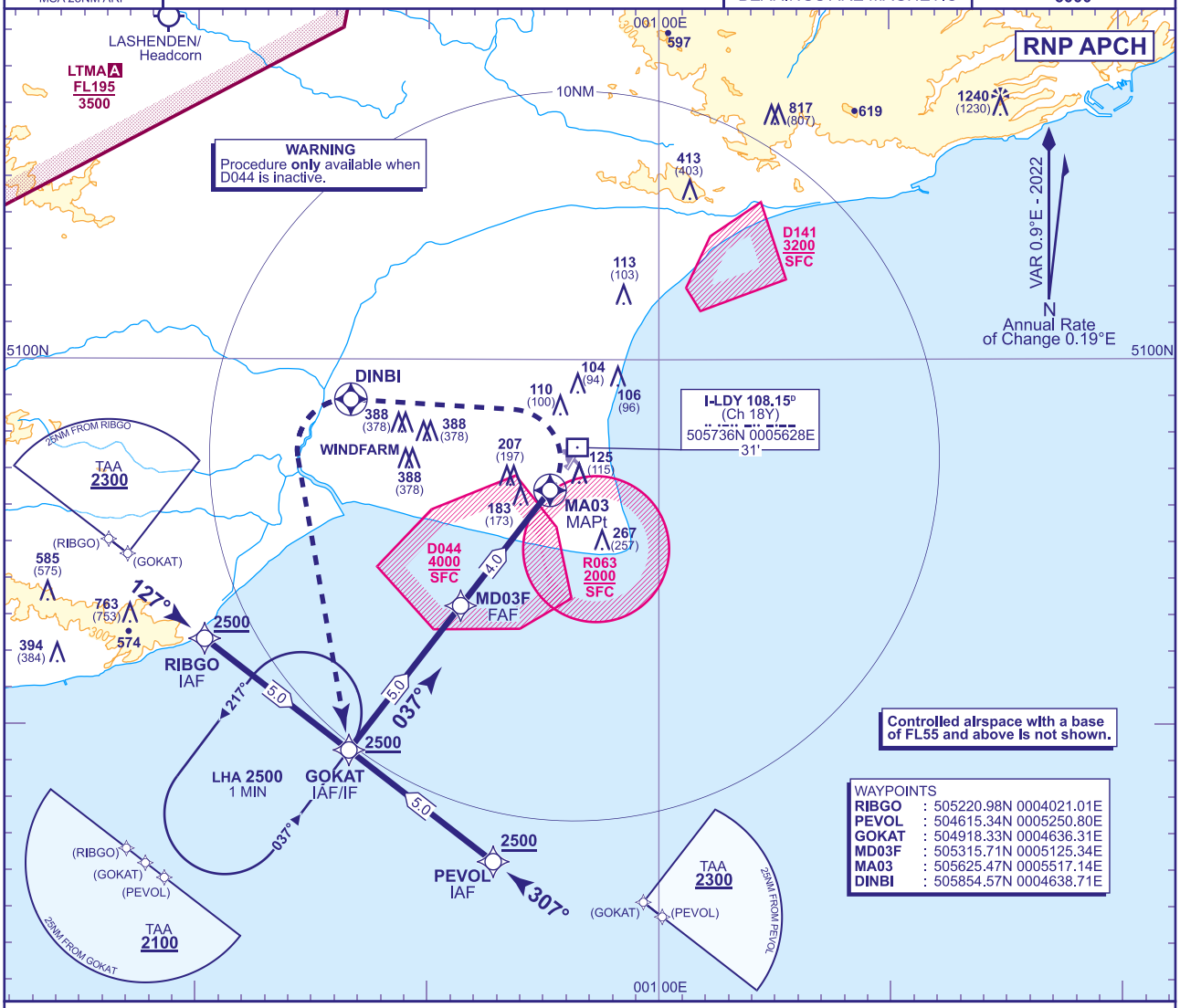
AD 2-EGMD-2-2

INSTRUMENT APPROACH CHART - ICAO

LYDD
RNP
RWY 03
(ACFT CAT A,B,C)

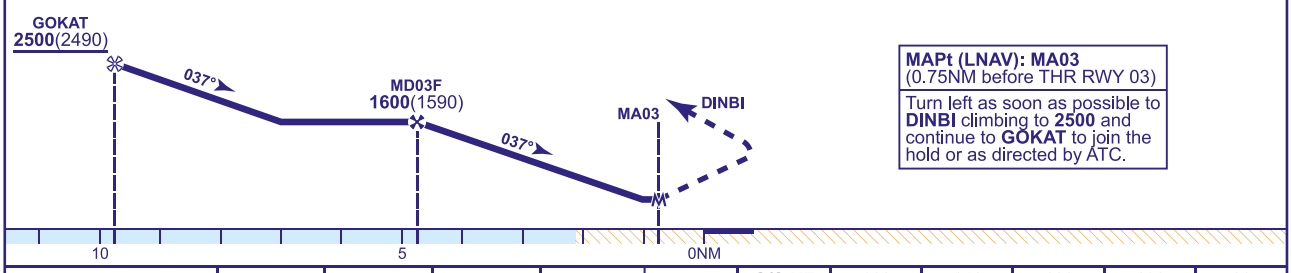
APP 120.705	LYDD APPROACH	AD ELEVATION	13
TWR 119.380	LYDD TOWER	THR ELEVATION	10
ATIS 129.230	LYDD INFORMATION	OBSTACLE ELEVATION **1240 AMSL** (1230) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE **6000**

MSA 25NM ARP



RECOMMENDED PROFILE Gradient 5.34%, 324FT/NM

NM to MA03	4	3	2	1
ALT(HGT)	**1600**(1590)	**1280**(1270)	**950**(940)	**630**(620)



MAPt (LNAV): MA03
(0.75NM before THR RWY 03)
Turn left as soon as possible to **DINBI** climbing to **2500** and continue to **GOKAT** to join the hold or as directed by ATC.

Aircraft Category		A	B	C
OCA (OCH)	LNAV	**430**(420)	**430**(420)	**430**(420)
VM(C)OCA (OCH AAL)	Total Area	**510**(497)	NA	NA
	West of RWY 03/21	NA	**510**(497)	**790**(777)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	760	650	540	430

NOTE
1 FAT offset 5° from RWY 03 C/L.
2 DME I-LDY will indicate 0.5NM at THR RWY 03.
3 Initial Approach MAX speed 210KIAS.
4 Danger Area activity information available on Lydd ATIS 129.230.

CHANGE (7/25): NOTE 4 AMENDED. SPECIFICATION CHANGE.

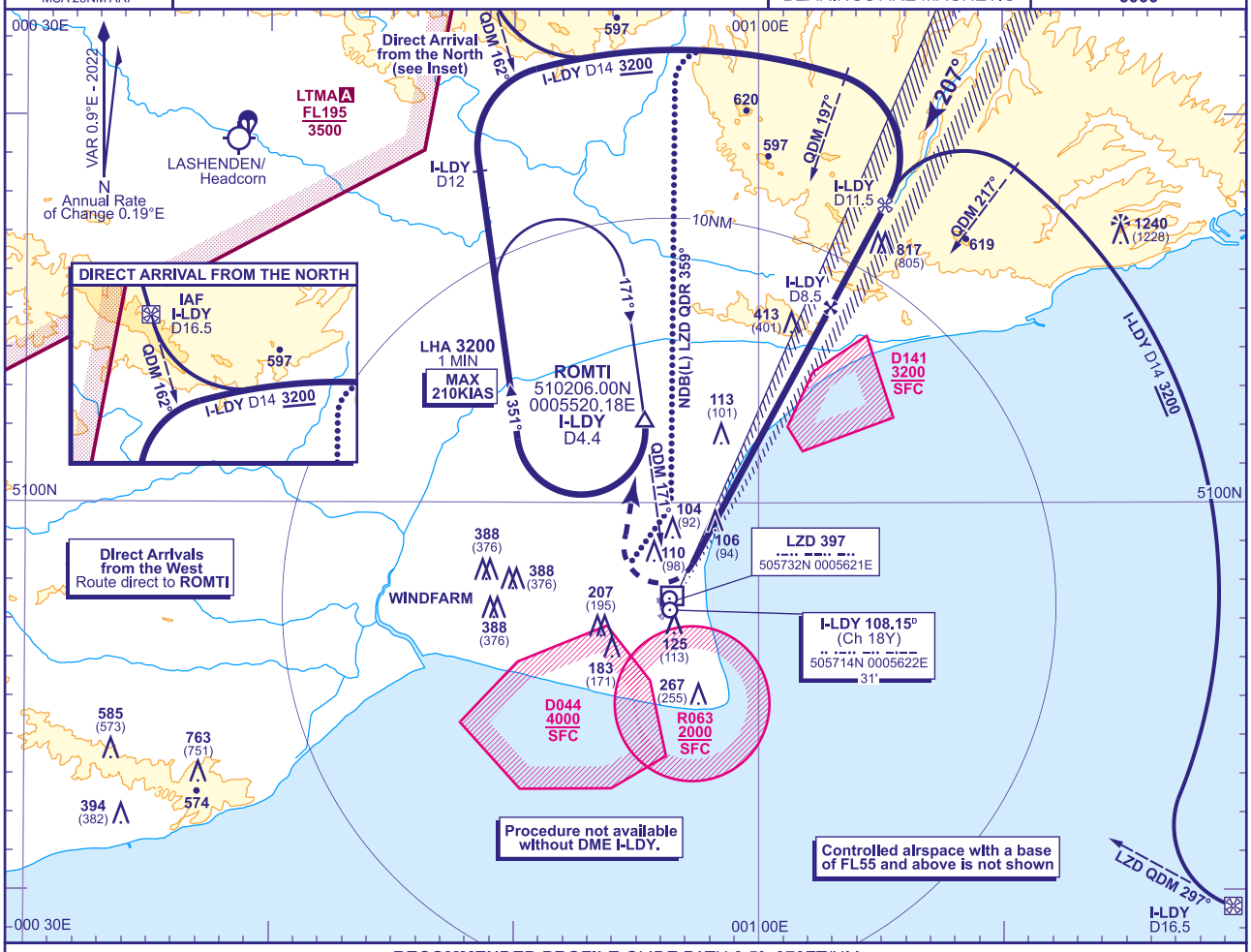
AERO INFO DATE 11 APR 25

INSTRUMENT APPROACH CHART - ICAO

LYDD OFFSET ILS/DME RWY 21
(ACFT CAT A,B,C)

APP 120.705	LYDD APPROACH	AD ELEVATION	13
TWR 119.380	LYDD TOWER	THR ELEVATION	12
ATIS 129.230	LYDD INFORMATION	OBSTACLE ELEVATION 1240 AMSL (1228) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

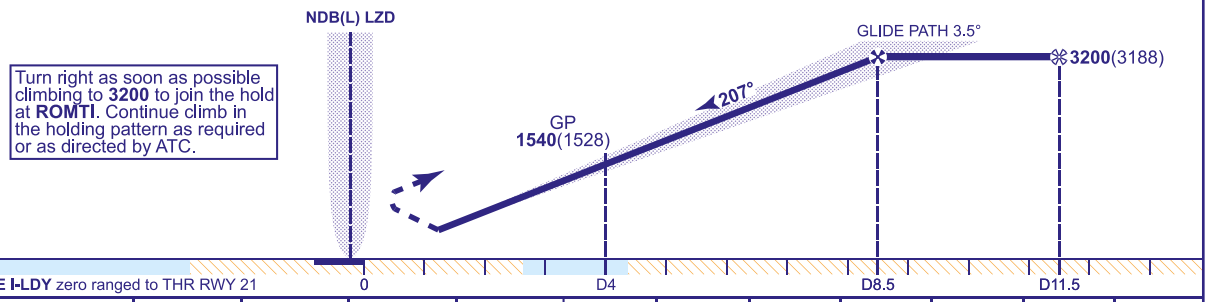
MSA 25NM ARP



RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

NM	8	7	6	5	4	3	2	1
ALT(HGT)	**3020**(3008)	**2650**(2638)	**2280**(2268)	**1910**(1898)	**1540**(1528)	**1170**(1158)	**800**(788)	**440**(428)

RDH 47



Aircraft Category		A	B	C
OCA (OCH)	CAT I	**430**(418)	**490**(478)	**570**(558)
VM(C)OCA (OCH AAL)	Total Area	**510**(497)	N/A	N/A
	West of RWY 03/21	N/A	**510**(497)	**790**(777)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	980	860	740	610	490

ALTERNATIVE PROCEDURE (Subject to ATC approval) From the MAP continue turn onto track 032°. Climbing to **3200** to intercept NDB(L) LZD QDR 359°. Fly outbound to intercept the DME 14 arc, turn right then continue as for basic procedure.

NOTE **1** Localizer offset 5° and intercepts extended RWY C/L 900m before THR RWY 21.
2 A/C to remain clear of EGD141 on approach and EGD044 on MAP.
3 MAX KIAS for MAP: CAT A 110KIAS, CAT B 150KIAS, CAT C 160KIAS.

CHANGE (7/25): SPECIFICATION CHANGE.

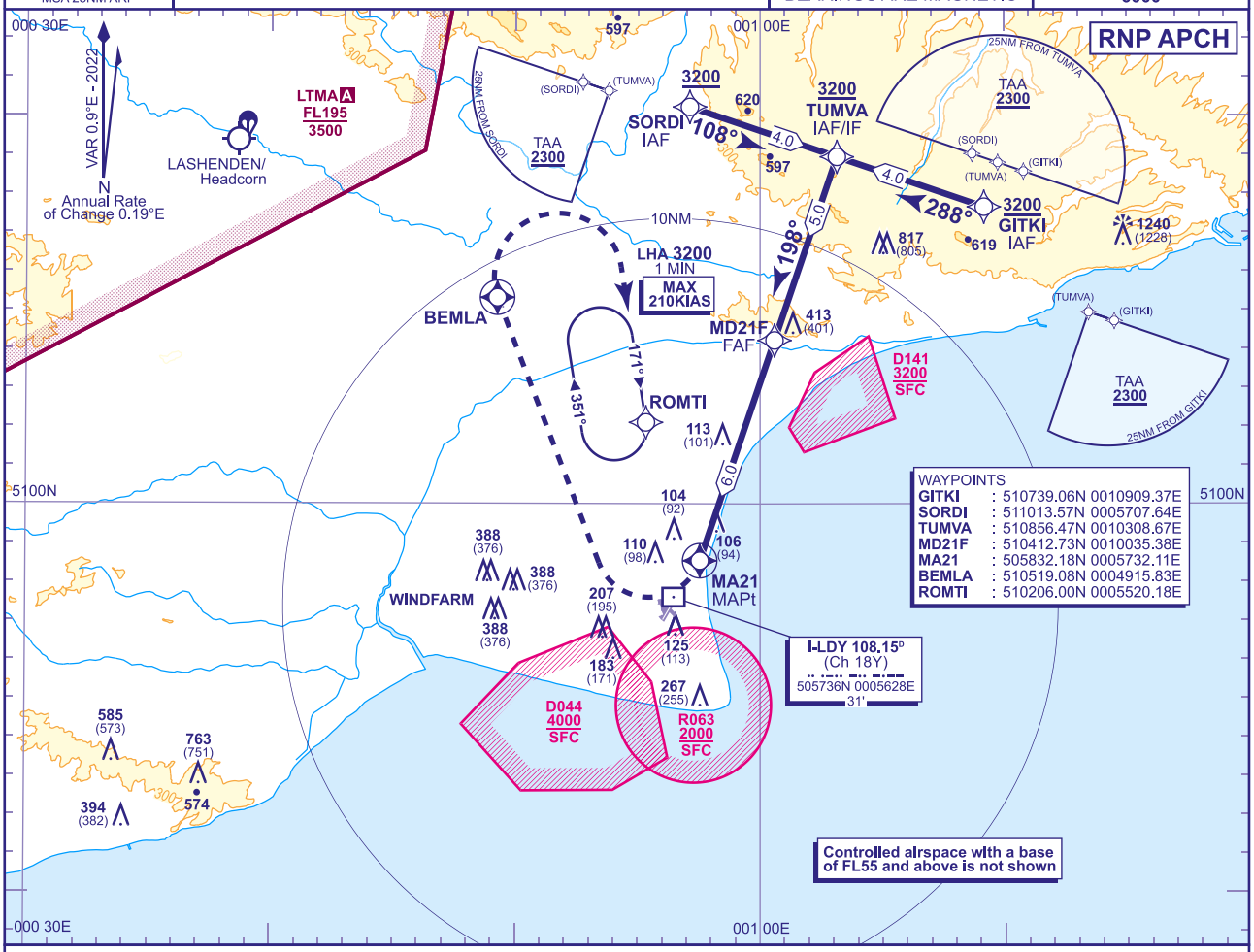
AERO INFO DATE 06 MAY 25 AD 2-EGMD-8-2

INSTRUMENT APPROACH CHART - ICAO

LYDD
RNP Y
RWY 21
(ACFT CAT A,B)

APP 120.705	LYDD APPROACH	AD ELEVATION	13
TWR 119.380	LYDD TOWER	THR ELEVATION	12
ATIS 129.230	LYDD INFORMATION	OBSTACLE ELEVATION 1240 AMSL (1228) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

MSA 25NM ARP



WAYPOINTS

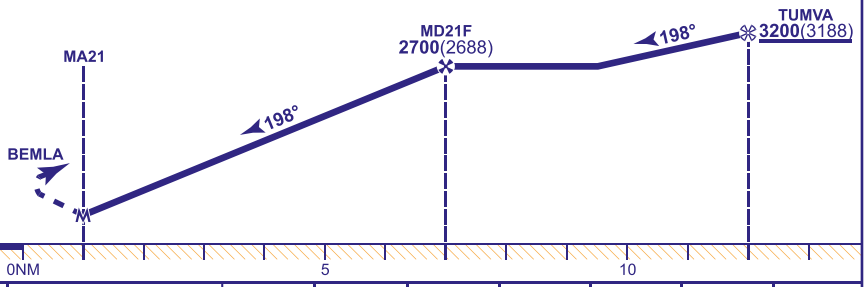
GITKI	: 510739.06N 0010909.37E
SORDI	: 511013.57N 0005707.64E
TUMVA	: 510856.47N 0010308.67E
MD21F	: 510412.73N 0010035.38E
MA21	: 505832.18N 0005732.11E
BEMLA	: 510519.08N 0004915.83E
ROMTI	: 510206.00N 0005520.18E

RECOMMENDED PROFILE Gradient 6.21%, 377FT/NM

NM to MA21	6	5	4	3	2	1
ALT(HGT)	**2700**(2688)	**2320**(2308)	**1950**(1938)	**1570**(1558)	**1190**(1178)	**810**(798)

MAPt (LNAV): MA21
(1NM before THR RWY 21)

Turn right as soon as possible to **BEMLA** climbing to **3200** to join the hold at **ROMTI** or as directed by ATC. Remain clear of D044.



Aircraft Category		A	B
OCA (OCH)	LNAV	**440**(428)	**490**(478)
VM(C)OCA (OCH AAL)	Total Area	**510**(497)	N/A
	West of RWY 03/21	N/A	**510**(497)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1010	880	750	630	500

NOTE **1** FAT offset 14° from RWY 21 C/L.
2 DME I-LDY will read zero at THR RWY 21.
3 MAX speed for procedure 160KIAS.
4 A/C to remain clear of EGD141 on approach and EGD044 on MAP.

CHANGE (7/25): SPECIFICATION CHANGE.

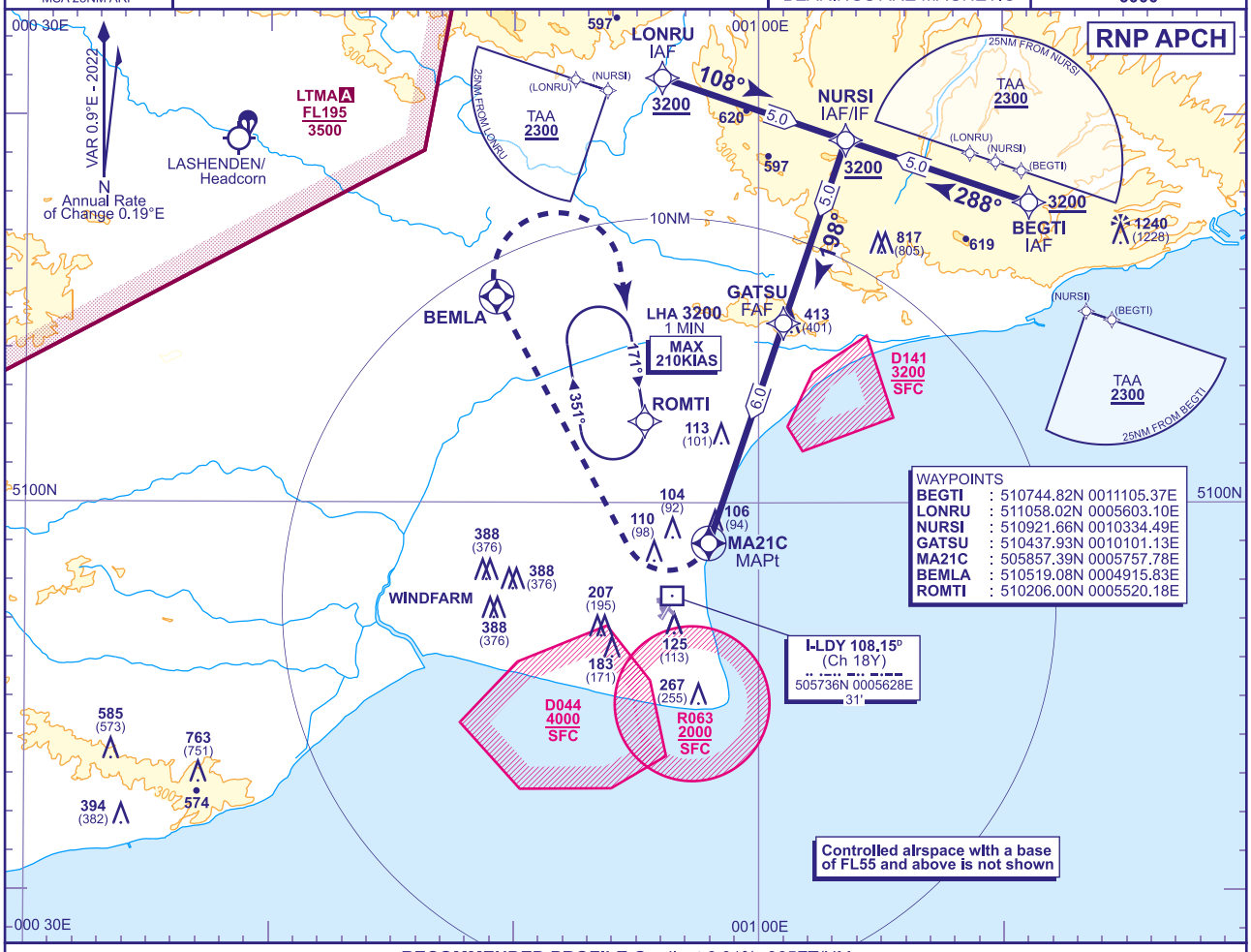
AERO INFO DATE 06 MAY 25

INSTRUMENT APPROACH CHART - ICAO

LYDD
RNP Z
RWY 21
(ACFT CAT C)

MSA 25NM ARP

APP 120.705	LYDD APPROACH	AD ELEVATION	13
TWR 119.380	LYDD TOWER	THR ELEVATION	12
ATIS 129.230	LYDD INFORMATION	OBSTACLE ELEVATION 1240 AMSL (1228) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

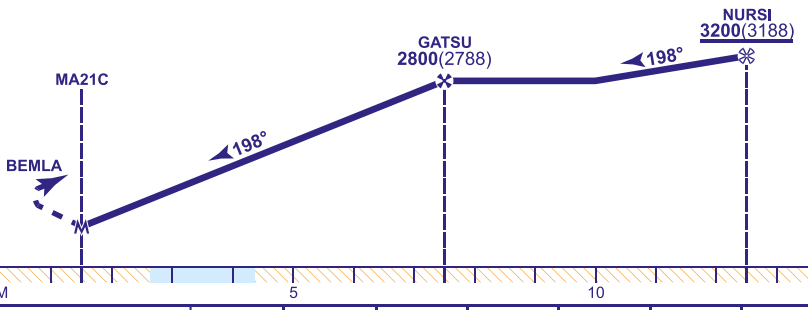


RECOMMENDED PROFILE Gradient 6.01%, 365FT/NM

NM to MA21C	6	5	4	3	2	1
ALT(HGT)	**2800**(2788)	**2430**(2418)	**2070**(2058)	**1700**(1688)	**1340**(1328)	**970**(958)

MAPt (LNAV): MA21C
(1.5NM before THR RWY 21)

Turn right as soon as possible to **BEMLA** climbing to **3200** to join the hold at **ROMTI** or as directed by ATC. Remain clear of D044.



Aircraft Category		C
OCA (OCH)	LNAV	**610**(598)
VM(C)OCA (OCH AAL)	Total Area	N/A
	West of RWY 03/21	**790**(777)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	970	850	730	610	490

NOTE **1** FAT offset 14° from RWY 21 C/L.
2 DME I-LDY will read zero at THR RWY 21.
3 MAX speed for procedure 180KIAS.
4 MAX speed on MAP 150KIAS until MAP initial turn completed.
5 A/C to remain clear of EGD141 on approach and EGD044 on MAP.

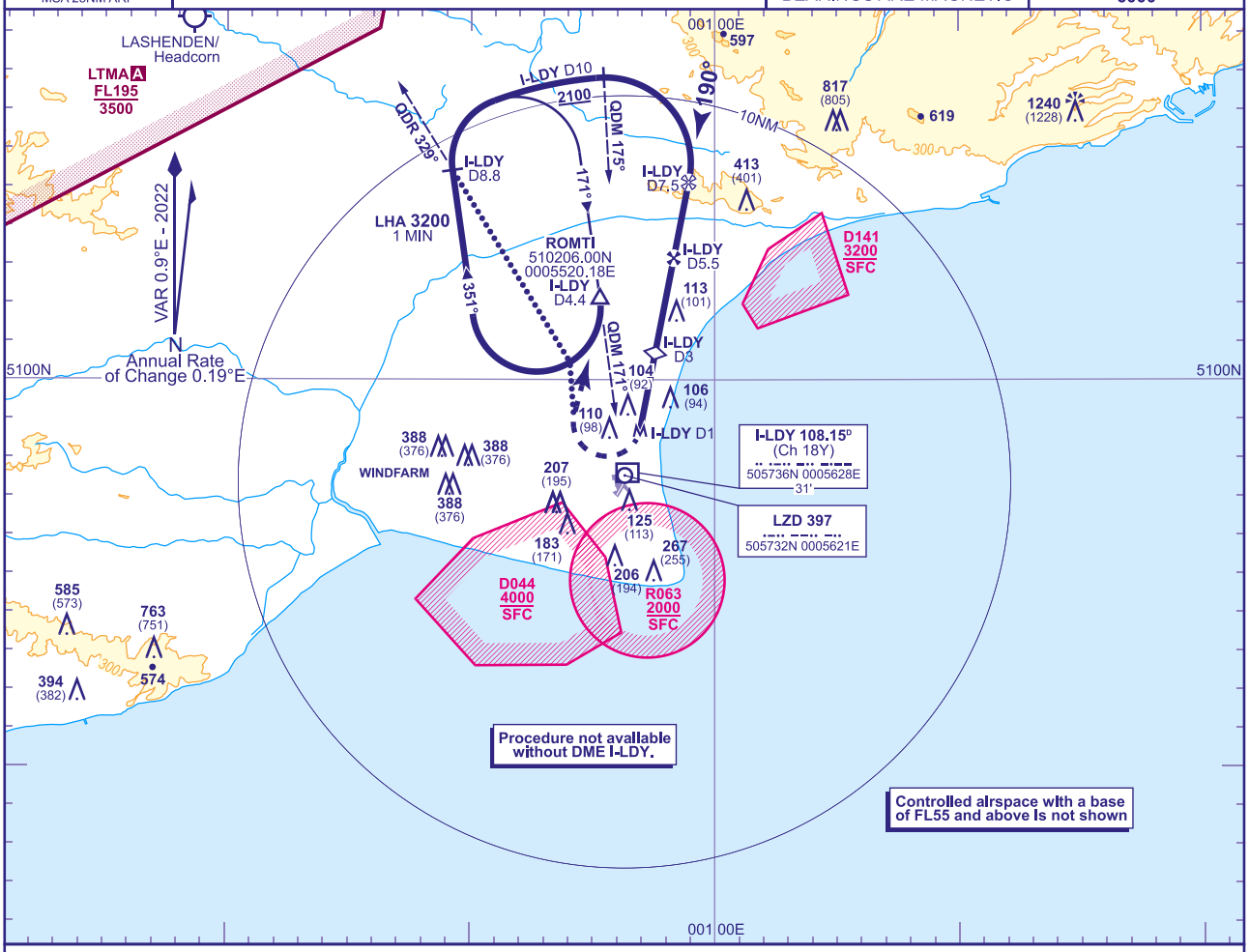
CHANGE (7/25): SPECIFICATION CHANGE.

INSTRUMENT APPROACH CHART - ICAO

LYDD
NDB(L) DME
RWY 21
(ACFT CAT A,B)

MSA 25NM ARP

APP 120.705	LYDD APPROACH	AD ELEVATION	13
TWR 119.380	LYDD TOWER	THR ELEVATION	12
ATIS 129.230	LYDD INFORMATION	OBSTACLE ELEVATION 1240 AMSL (1228) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000

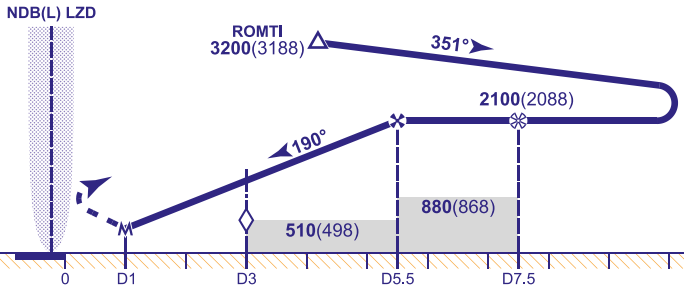


RECOMMENDED PROFILE Gradient 6.10%, 371FT/NM

NM	5	4	3 (SDF)	2	1
ALT(HGT)	**1910**(1898)	**1540**(1528)	**1170**(1158)	**800**(788)	**430**(418)

MAPt I-LDY DME 1

Turn right as soon as possible climbing to **3200** to join the hold at **ROMTI**. Continue climb in the holding pattern as required or as directed by ATC.



Aircraft Category		A	B
OCA (OCH)	Procedure	**420**(408)	**520**(508)
VM(C)OCA (OCH AAL)	Total Area	**510**(497)	N/A
	West of RWY 03/21	N/A	**510**(497)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	860	740	620	490

ALTERNATIVE PROCEDURE (Subject to ATC approval) At the MAPt turn right onto track 359°, climbing to **2100**(2088), to intercept NDB(L) LZD QDR 329°outbound. At I-LDY DME 8.8 turn right to intercept the DME 10 arc clockwise at **2100**(2088), then continue as for basic procedure.

NOTE **1** When joining the hold at **3200** pilots are to remain clear of EGD044 to the south of the hold when active up to **4000**.
2 A/C to remain clear of EGD141 on approach and EGD044 on MAP.
3 FAT is offset 22° from RWY 21 C/L.

CHANGE (7/25): SPECIFICATION CHANGE.

AERO INFO DATE 30 APR 25
AD 2-EGMD-8-5

Instrument Approach Procedure Coding Tables

LYDD RNP RWY 03 - Instrument Approach Procedure via RIBGO

Designator	Sequence Number	Path Termination	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R03L	001	IF	RIBGO	N	-	-	2500	-210	505220.98N 0004021.01E	IAF
R03L	002	TF	GOKAT	N	127° (127.5°)	LEFT	2500	-210	504918.33N 0004636.31E	IF / 9NM
R03L	003	TF	MD03F	N	037° (037.6°)	-	1600	-	505315.71N 0005125.34E	FAF / 4NM
R03L	004	TF	MA03	Y	037° (037.7°)	-	-	-	505625.47N 0005517.14E	MAPt
R03L	005	DF	DINBI	Y	-	LEFT	-	-	505854.57N 0004638.71E	-
R03L	006	DF	GOKAT	N	-	LEFT	2500	-210	504918.33N 0004636.31E	HOLD

LYDD RNP RWY 03 - Instrument Approach Procedure via PEVOL

Designator	Sequence Number	Path Termination	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R03R	001	IF	PEVOL	N	-	-	2500	-210	504615.34N 0005250.80E	IAF
R03R	002	TF	GOKAT	N	307° (307.7°)	RIGHT	2500	-210	504918.33N 0004636.31E	IF / 9NM
R03R	003	TF	MD03F	N	037° (037.6°)	-	1600	-	505315.71N 0005125.34E	FAF / 4NM
R03R	004	TF	MA03	Y	037° (037.7°)	-	-	-	505625.47N 0005517.14E	MAPt
R03R	005	DF	DINBI	Y	-	LEFT	-	-	505854.57N 0004638.71E	-
R03R	006	DF	GOKAT	N	-	LEFT	2500	-210	504918.33N 0004636.31E	HOLD

LYDD RNP RWY 03 - Instrument Approach Procedure via GOKAT

Designator	Sequence Number	Path Termination	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R03C	001	IF	GOKAT	N	-	-	2500	-210	504918.33N 0004636.31E	IAF / IF / 9NM
R03C	002	TF	MD03F	N	037° (037.6°)	-	1600	-	505315.71N 0005125.34E	FAF / 4NM
R03C	003	TF	MA03	Y	037° (037.7°)	-	-	-	505625.47N 0005517.14E	MAPt
R03C	004	DF	DINBI	Y	-	LEFT	-	-	505854.57N 0004638.71E	-
R03C	005	DF	GOKAT	N	-	LEFT	2500	-210	504918.33N 0004636.31E	HOLD

CHANGE (7/25): SPECIFICATION CHANGE, PAGE RENUMBERED.
AERO INFO DATE 30 APR 25

Instrument Approach Procedure Coding Tables

LYDD RNP Y RWY 21 - Instrument Approach Procedure via GITKI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21L	001	IF	GITKI	N	-	-	3200	-160	510739.06N 0010909.37E	IAF
R21L	002	TF	TUMVA	N	288° (288.9°)	LEFT	3200	-160	510856.47N 0010308.67E	IF / 11NM
R21L	003	TF	MD21F	N	198° (198.8°)	-	2700	-	510412.73N 0010035.38E	FAF / 6NM
R21L	004	TF	MA21	Y	198° (198.8°)	-	-	-	505832.18N 0005732.11E	MAPt
R21L	005	DF	BEMLA	Y	-	RIGHT	-	-	510519.08N 0004915.83E	-
R21L	006	DF	ROMTI	N	-	RIGHT	3200	-210	510206.00N 0005520.18E	HOLD

LYDD RNP Y RWY 21 - Instrument Approach Procedure via SORDI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21R	001	IF	SORDI	N	-	-	3200	-160	511013.57N 0005707.64E	IAF
R21R	002	TF	TUMVA	N	108° (108.7°)	RIGHT	3200	-160	510856.47N 0010308.67E	IF / 11NM
R21R	003	TF	MD21F	N	198° (198.8°)	-	2700	-	510412.73N 0010035.38E	FAF / 6NM
R21R	004	TF	MA21	Y	198° (198.8°)	-	-	-	505832.18N 0005732.11E	MAPt
R21R	005	DF	BEMLA	Y	-	RIGHT	-	-	510519.08N 0004915.83E	-
R21R	006	DF	ROMTI	N	-	RIGHT	3200	-210	510206.00N 0005520.18E	HOLD

LYDD RNP Y RWY 21 - Instrument Approach Procedure via TUMVA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21C	001	IF	TUMVA	N	-	-	3200	-160	510856.47N 0010308.67E	IAF / IF / 11NM
R21C	002	TF	MD21F	N	198° (198.8°)	-	2700	-	510412.73N 0010035.38E	FAF / 6NM
R21C	003	TF	MA21	Y	198° (198.8°)	-	-	-	505832.18N 0005732.11E	MAPt
R21C	004	DF	BEMLA	Y	-	RIGHT	-	-	510519.08N 0004915.83E	-
R21C	005	DF	ROMTI	N	-	RIGHT	3200	-210	510206.00N 0005520.18E	HOLD

CHANGE (7/25): SPECIFICATION CHANGE. PAGE RENUMBERED.
AERO INFO DATE 09 APR 25

Instrument Approach Procedure Coding Tables

LYDD RNP Z RWY 21 - Instrument Approach Procedure via BEGTI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21L	001	IF	BEGTI	N	-	-	3200	-180	510744.82N 0011105.37E	IAF
R21L	002	TF	NURSI	N	288° (288.9°)	LEFT	3200	-180	510921.66N 0010334.49E	IF / 11NM
R21L	003	TF	GATSU	N	198° (198.8°)	-	2800	-	510437.93N 0010101.13E	FAF / 6NM
R21L	004	TF	MA21C	Y	198° (198.8°)	-	-	-150	505857.39N 0005757.78E	MAPt
R21L	005	DF	BEMLA	Y	-	RIGHT	-	-150	510519.08N 0004915.83E	-
R21L	006	DF	ROMTI	N	-	RIGHT	3200	-210	510206.00N 0005520.18E	HOLD

LYDD RNP Z RWY 21 - Instrument Approach Procedure via LONRU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21R	001	IF	LONRU	N	-	-	3200	-180	511058.02N 0005603.10E	IAF
R21R	002	TF	NURSI	N	108° (108.7°)	RIGHT	3200	-180	510921.66N 0010334.49E	IF / 11NM
R21R	003	TF	GATSU	N	198° (198.8°)	-	2800	-	510437.93N 0010101.13E	FAF / 6NM
R21R	004	TF	MA21C	Y	198° (198.8°)	-	-	-150	505857.39N 0005757.78E	MAPt
R21R	005	DF	BEMLA	Y	-	RIGHT	-	-150	510519.08N 0004915.83E	-
R21R	006	DF	ROMTI	N	-	RIGHT	3200	-210	510206.00N 0005520.18E	HOLD

LYDD RNP Z RWY 21 - Instrument Approach Procedure via NURSI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R21C	001	IF	NURSI	N	-	-	3200	-180	510921.66N 0010334.49E	IAF / IF / 11NM
R21C	002	TF	GATSU	N	198° (198.8°)	-	2800	-	510437.93N 0010101.13E	FAF / 6NM
R21C	003	TF	MA21C	Y	198° (198.8°)	-	-	-150	505857.39N 0005757.78E	MAPt
R21C	004	DF	BEMLA	Y	-	RIGHT	-	-150	510519.08N 0004915.83E	-
R21C	005	DF	ROMTI	N	-	RIGHT	3200	-210	510206.00N 0005520.18E	HOLD

CHANGE (7/25): SPECIFICATION CHANGE. PAGE RENUMBERED.
AERO INFO DATE 09 APR 25

EGCC — MANCHESTER

EGCC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCC — MANCHESTER

EGCC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 532113N Long: 0021630W Mid point of Runway 05L/23R.
2	Direction and distance from city	7.5 NM SW of Manchester.
3	Elevation / Reference temperature / Mean Low Temperature	257 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	167 FT
5	Magnetic Variation / Annual Change	0.43°W (2022) / 0.21°E
6	AD Administration Address Telephone Telefax	MANCHESTER AIRPORT PLC Manchester Airport, Manchester M90 1QX 0161-209 2835 (ATC) 0161-489 3331 (Airfield Operations Duty Manager) 0808-169 7030 (Manchester Airport PLC - General Enquiries) 0161-493 1850 (Airport Co-ordination Ltd - PPR Mon-Fri; 0900-1700) 0161-489 8373 (Airfield Operations Duty Manager)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All telephone calls to ATC will be recorded.

EGCC AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24 (Port Health)
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24 See also AD 2.18.
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Refer to AD 2.20 item 1.

EGCC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	HILOs 15 and 18.6 M and 9 M conveyor belts. 9 ton fork lift. Nearest railway siding: Heald Green 1.3 NM.
2	Fuel and oil types	AVTUR JET A-1 (anti-icing additive not included). W80, W100 and W120, 98, 390, 500.
3	Fuelling facilities/capacity	Hydrants at all pier stands for AVTUR JET A-1. No over-wing fuelling.
4	De-icing facilities	Contact: Swissport, Menzies, Aero Mag 2000 MAN Ltd.
5	Hangar space for visiting aircraft	Limited. Signature Flight Support.
6	Repair facilities for visiting aircraft	By arrangement with Signature Flight Support.

7	Remarks	Oxygen and related servicing, by arrangement with handling agent. A nominated handling agent is mandatory for all visiting aircraft. Signature Flight Support – Tel: 0161-436 6666. Fax: 0161-436 3450. E-mail: man@signatureflight.co.uk. VHF Company Frequency 131.615 MHz (Northside facility). Other handling agents based at Manchester are: Menzies – Swissport – dnata – Star Handling Ltd - DHL - Jet 2 - Weston Aviation - T25.

EGCC AD 2.5 PASSENGER FACILITIES

1	Hotels	6
2	Restaurants	Restaurants in all Terminals.
3	Transportation	Buses, trains, taxis and car hire. Nearest railway station: Airport.
4	Medical facilities	Medical Response H24 - First aid only.
5	Bank and Post Office	Post office Terminal 1. Bureau de Change.
6	Tourist Office	
7	Remarks	

EGCC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A10
2	Rescue equipment	
3	Capability for removal of disabled aircraft	170,000 KG. Contact 0161-489 3331 (Airfield Operations Duty Manager).
4	Remarks	

EGCC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical anti-icing.
2	Clearance priorities	During snowfall, aerodrome may be SNOCLO and Runway 05R/23L may not be cleared and available.
3	Remarks	Latest information from Snow State/Clearance Programme Tel: 0161-489 3331 (Airfield Operations Duty Manager).

EGCC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON 1 Surface: Concrete PCN 56/R/C/W/T APRON 2 Surface: Concrete PCN 97/R/B/W/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 23 M Surface: Concrete and asphalt PCN 66/F/C/W/T PCN between Alpha-Echo and Bravo: 46 F/C/W/T Taxiway OTHER TAXIWAYS: 23 M Surface: Concrete and asphalt PCN 95/R/C/W/T Taxiway SIERRA: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway TANGO: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T

		Taxiway UNIFORM: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway VICTOR: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway VICTOR ALPHA: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway VICTOR BRAVO: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway VICTOR CHARLIE: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway VICTOR DELTA: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway WHISKEY: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T Taxiway YANKEE: 23 M Surface: Concrete and asphalt PCN 79/R/C/W/T
3	Altimeter checkpoint location and elevation	Pier A: 240 - 243 FT AMSL. Pier B: 233 - 236 FT AMSL. Pier C: 228 - 232 FT AMSL. Western Apron 221 - 231 FT AMSL. Apron 238 FT AMSL.
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Ground Movement/Parking/Docking Chart.
6	Remarks	Taxiways Quebec and November-Charlie may be used for aircraft parking. In darkness or if Low Visibility Procedures are in force a ‘Follow-Me’ vehicle will be provided.

EGCC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Terminal 1 comprises Stands 1-12, 15, 21-29, 31 and 32. Stand 12 has additional centre-lines designated 12L and 12R. Aircraft docking on all Terminal 1 stands (except Stands 12L and 21) is by Safedock. Aircraft docking on Stands 12L and 21 is by Marshaller's instructions. Terminal 2 has a frontage serving Stands 301-310. Stands 301, 303, 307 and 309 have a single centre-line. Stands 302, 304, 306, 308 and 310 have two centre-lines. The main widebody centre-line is designated by the stand number only. The subsidiary is designated Left. For example: Stand 306 and 306L. Terminal 2 Pier 1 serves Stands 101, 103, 105, 107, 109, 111, 113, 113L and 113R on the western side, and Stands 104, 106, 106R, 108, 110, 110L, 112, 112R, 114, 116 and 116L on the eastern side. Stands 113, 113L, 113R, 114, 116 and 116L are remote, without an airbridge. Aircraft docking on all Pier 1 stands is by Safedock. Terminal 2, Pier 2 serves Stands 203L, 203, 205, 207, 207R, 209L, 209, 211, 213 and 213R on the western side and Stands 204, 206, 206L, 208, 210L, 212, 214, 214L and 215 on the eastern side. Aircraft docking on all Pier 2 stands is by Safedock. Terminal 3 comprises pier served Stands 16-18, 41-44 and 47-55, and remote Stands 57 and 58. Stands 44 and 55 have additional centre-lines designated 44L, 44R, 55L and 55R. Aircrews are to note that Stands 44L, 44R, 55L and 55R are demarked by alternate yellow/white dashed painted centre-lines. Aircraft docking on all Terminal 3 stands is by Safedock (except Stands 44, 44L, 44R, 57 and 58). Aircraft docking on Stands 44, 44L, 44R, 57 and 58 is by Marshaller's instructions. Remote Stands 61-64, 66-68, 74, 80 and 231 have additional centre-lines designated Left and Right. Stands 65, 69-73, 81, 233, 901-919 and 925-929 have single centre-lines. Aircraft docking on Stands 901-919 and 925-929 is by Safedock. Aircraft docking on all other remote stands is by Marshaller's instructions. Aircrew are to note that all Stand Entry Guidance Systems are activated by their ground handling agent. Pilots must not enter an aircraft stand unless the Stand Entry Guidance has been activated and the correct aircraft type is displayed, or a Manchester Airport Marshaller has signalled clearance to proceed. In the event of there being no activated SEG upon approach to a stand, flight crews must hold position on the taxiway and advise GMC. Flight crews must not attempt to self-park.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05L/23R: Runway designation. Runway threshold, runway centre-line, edge, TDZ and fixed distances. Runway width is designated by side stripe markings. 05R/23L: Runway designation. Runway threshold, runway centre-line, edge, TDZ and fixed distances. Runway width is designated by side stripe markings. Turning circle has unlit painted yellow centre-line and inset blue edge lighting beyond runway edges. Taxiway light(s): Green centre-line with blue edge lights on sharp curves, red stop bars at holding positions. Runway Exits have alternate green/yellow centre-line lights to the edge of the localiser sensitive area. Runway holding position. Runway Guard lights. Taxiways Quebec and November-Charlie have painted yellow centre-lines only – during Sunset to Sunrise these taxiways only to be used with a Follow-Me vehicle. Taxiways Zulu, November-Alpha and November-Bravo have three centrelines comprising a central centreline painted yellow for use by aircraft up to and including ICAO Code E (Taxiways Zulu and November-Alpha) or ICAO Code F (Taxiway November-Bravo), and dual colour-coded centrelines designated 'Blue' and 'Orange' for use by aircraft up to and including ICAO Code C. Pilots are to follow the relevant centreline as instructed by ATC.
3	Stop bars and runway guard lights (if any)	Stopbars at runway entrance points are in operation H24.
4	Other runway protection measures	

5	Remarks	Some obstacle marking. WDI (LGTD) - 532057.17N 0021651.06W, 532001.19N 0021845.55W, 532122.88N 0021554.81W. Pilot attention is drawn to the use of additional paint markings at specified runway entrance and exit points. These markings are provided as an additional measure to raise situational awareness and to reduce the runway incursion risk. All Ground Movement is under ATC Control.

EGCC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCC11921) 23R/APPROACH 05L/ TAKE-OFF	TREE	532157.43N 0021517.15W	297 FT	47 FT	No	
(EGCC11890) 23R/APPROACH 05L/ TAKE-OFF	TREE	532152.32N 0021505.65W	274 FT	28 FT	No	
(EGCC3653) 23R/APPROACH 05L/ TAKE-OFF	RAILWAY GANTRY	532151.97N 0021516.86W	257 FT	12 FT	No	
(EGCC1320) 23R/APPROACH 05L/ TAKE-OFF	HOUSE CHIMNEY	532149.90N 0021529.73W	285 FT	35 FT	Yes Red	
(EGCC9388) 23R/APPROACH 05L/ TAKE-OFF	FENCE	532147.73N 0021528.60W	260 FT	12 FT	No	
(EGCC11967) 23L/APPROACH 05R/ TAKE-OFF	TREE	532131.18N 0021509.13W	340 FT	82 FT	No	
(EGCC9493) 23L/APPROACH 05R/ TAKE-OFF	ANTENNA MLAT	532114.63N 0021542.58W	303 FT	46 FT	Yes Red	
(EGCC9497) 23L/APPROACH 05R/ TAKE-OFF	TREE	532113.56N 0021529.29W	321 FT	49 FT	No	
(EGCC10568) 23L/APPROACH 05R/ TAKE-OFF	ANTENNA MLAT	532104.06N 0021610.77W	256 FT	13 FT	Yes Red	
(EGCC11471) 23L/APPROACH 05R/ TAKE-OFF	TREE	532101.73N 0021600.42W	293 FT	39 FT	No	
(EGCC8823) 23L/APPROACH 05R/ TAKE-OFF	TREE	532053.07N 0021625.11W	248 FT	36 FT	No	
(EGCC12106) 05L/APPROACH 23R/ TAKE-OFF	TREE	532035.39N 0021759.41W	234 FT	42 FT	No	
(EGCC8829) 05R/APPROACH 23L/ TAKE-OFF	ANTENNA MLAT	531947.58N 0021849.14W	203 FT	19 FT	Yes Red	
(EGCC11412) 05R/APPROACH	TREE	531938.96N 0021853.72W	240 FT	42 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCC10274)	BUILDING	532831.76N 0021502.42W	669 FT	553 FT	Yes Red	
(EGCC10269)	BUILDING	532818.24N 0021506.01W	755 FT	649 FT	Yes Red	
(EGCC5626)	ATC AERIAL	532127.73N 0021646.42W	436 FT	209 FT	Yes Red	
(EGCC12198)	TREE	532059.75N 0021605.18W	293 FT	44 FT	No	
(EGCC2377)	PYLON	532013.41N 0022002.98W	284 FT	154 FT	No	
(EGCC2135)	PYLON	531937.68N 0021754.52W	355 FT	161 FT	No	
(EGCC2607)	PYLON	531905.20N 0021705.85W	396 FT	173 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCC2396)	CHIMNEY	531901.96N 0021939.67W	326 FT	158 FT	No	

EGCC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 30 Hours
4	Trend forecast Interval of issuance	TREND 30 minutes.
5	Briefing/consultation provided	Self-briefing via handling agent.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Available on the Met Office website, www.metoffice.gov.uk/aviation.
8	Supplementary equipment available for providing information	Manchester ATIS available by telephone: 0161-209 2860.
9	ATS units provided with information	MANCHESTER
10	Additional information (limitation of service, etc.)	Current weather on ATIS.

EGCC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05L	051.06°	3048 x 45 M	RWY surface: Concrete and asphalt, Non grooved PCN 94/F/C/W/T	532051.20N 0021715.95W 167.3 FT	THR 211.8 FT TDZ 225.5 FT	05L - 0.49% Up 23R - 0.49% Down
23R	231.09°	3048 x 45 M	RWY surface: Concrete and asphalt, Non grooved PCN 94/F/C/W/T	532140.75N 0021533.41W 167.2 FT	THR 249.1 FT TDZ 257.1 FT	05L - 0.49% Up 23R - 0.49% Down
05R	051.04°	3050 x 45 M	RWY surface: Concrete and asphalt, Grooved PCN 79/F/C/W/T	531955.11N 0021838.38W 167.3 FT	THR 186.3 FT TDZ 186.8 FT	05R - 0.46% Up 23L - 0.48% Down
23L	231.07°	3050 x 45 M	RWY surface: Concrete and asphalt, Grooved PCN 79/F/C/W/T	532053.35N 0021637.95W 167.3 FT	THR 227.0 FT TDZ 227.0 FT	05R - 0.46% Up 23L - 0.48% Down

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	215 x 150 M	3168 x 280 M	240 x 90 M -			RWY 05L Landing threshold displaced by 427 M. 05L/23R Runway shoulders are widened to 23 M each side giving a total paved width of 91 M. 05L/23R has a turning circle at the northeastern end, abeam Link Juliet, for use by aircraft up to A380. All turning circles have unlit painted centre-line and blue edge lighting beyond runway edges. Aircraft should follow the painted centre-line in a clockwise direction, unless directed otherwise by ATC. Strip Dimensions: 280 M wide over full length extending to 60 M beyond each end of pavement. OFZ: Yes.
	300 x 150 M	3168 x 280 M	240 x 90 M -			RWY 23R Landing threshold displaced by 183 M. 05L/23R Runway shoulders are widened to 23 M each side giving a total paved width of 91 M. 05L/23R has a turning circle at the northeastern end, abeam Link Juliet, for use by aircraft up to A380. The last quarter of Runway 23R has a downslope of 0.88%. All turning circles have unlit painted centre-line and blue edge lighting beyond runway edges. Aircraft should follow the painted centre-line in a clockwise direction, unless directed otherwise by ATC. Strip Dimensions: 280 M wide over full length extending to 60 M beyond each end of pavement. OFZ: Yes.
	300 x 150 M	3320 x 280 M	351 x 90 M -			RWY 05R 05R/23L has one turning circle at 1820 M from 23L threshold for use by aircraft up to B767. All turning circles have unlit painted centre-line and blue edge lighting beyond runway edges. Aircraft should follow the painted centre-line in a clockwise direction, unless directed otherwise by ATC. Strip Dimensions: 280 M wide over full length from 60 M beyond end of pavement, except between links Victor Alpha and Tango where strip narrows to 56 M on the southern side of Runway 23L starter extension only. OFZ: Yes.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	300 x 150 M	3320 x 280 M	242 x 90 M -			RWY 23L Landing threshold displaced by 186 M. Starter extension of 150 x 30 M. Hard shoulder width at starter extension is 15 M. Hard inner shoulders along full length of Runway 05R/23L have a width of 7.5 M and a PCN of 42/R/C/W/T. A stabilised grass outer shoulder is prepared to a width of 7.5 M along the full length of the runway. 05R/23L has one turning circle: At 1820 M from 23L threshold for use by aircraft up to B767. All turning circles have unlit painted centre-line and blue edge lighting beyond runway edges. Aircraft should follow the painted centre-line in a clockwise direction, unless directed otherwise by ATC. Strip Dimensions: 280 M wide over full length from 60 M beyond end of pavement, except between links Victor Alpha and Tango where strip narrows to 56 M on the southern side of Runway 23L starter extension only.

EGCC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05R	3047 M	3347 M	3047 M	2864 M	
23L	3200 M	3500 M	3200 M	2864 M	Using 150 M starter extension TORA of 3200 M and TODA of 3500 M available. Use Taxiway T for access.
23L	2202 M	2502 M	2202 M		Take-off from intersection at Taxiway Victor Delta.
23L	3121 M	3421 M	3121 M		Take-off from intersection at Taxiway Victor Alpha.
23L	2954 M	3254 M	2954 M		Take-off from intersection at Taxiway Victor Bravo.
23L	2848 M	3148 M	2848 M		Take-off from intersection at Taxiway Uniform.
23L	2504 M	2804 M	2504 M		Take-off from intersection at Taxiway Victor Charlie.
05L	3014 M	3229 M	3014 M	2587 M	
23R	2897 M	3197 M	2897 M	2714 M	
05L	2771 M	2987 M	2771 M		Take-off from intersection at Taxiway Alpha Golf.
05L	2433 M	2648 M	2433 M		Take-off from intersection at Taxiway Alpha Foxtrot.
05L	2037 M	2252 M	2037 M		Take-off from intersection at Taxiway Bravo.
23R	2567 M	2867 M	2567 M		Take-off from intersection at Taxiway Mike.
23R	2120 M	2420 M	2120 M		Take-off from intersection at Taxiway Hotel.

EGCC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05L	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Green Light intensity high With flush HI Green wingbars	PAPI Right/3° 62 FT 325 M from displaced threshold	900 M	Colour coded 15 M spacing Light intensity high	Bi-directional Flush fitted 60 M spacing Light intensity high	Red		
23R	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. 914 M Light intensity high	Green Light intensity high With flush HI Green wingbars	PAPI Left/3° 60 FT 357 M from displaced threshold	900 M	Colour coded 15 M spacing Light intensity high	Bi-directional Flush fitted 60 M spacing Light intensity high	Red		
05R	Coded centre-line with five crossbars. 900 M Light intensity high	Green With flush HI green wingbars	PAPI Left/3° 66 FT 437 M		Colour coded 30 M spacing Light intensity high	Bi-directional Flush fitted Full length 61 M spacing White Light intensity high	Red wingbars only		
23L	Coded centre-line with five crossbars. 900 M Light intensity high	Green Light intensity high With flush HI green wingbars	PAPI Left/3° 75 FT 561 M from displaced threshold		Colour coded 30 M spacing Light intensity high	Bi-directional Flush fitted Full length 61 M spacing White Light intensity high	Red		

EGCC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 23R - 532130.48N 0021544.16W (LGTD), 23L - 532043.10N 0021648.99W (LGTD), 05L - 532054.33N 0021659.67W (LGTD), 05R - 531959.29N 0021819.60W.
3	TWY edge and centre line lighting	CL: Yes, except Taxiways Quebec and November-Charlie. EDGE: Yes, except Taxiways Quebec and November-Charlie. Blue edge lighting provided on selected taxiways.
4	Secondary power supply/switch-over time	Yes/1 second.
5	Remarks	Obstacle lighting. Apron Floodlighting.

EGCC AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	

6	APP and FATO lighting	
7	RMK	See AD 2.20, paragraph 5.

EGCC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
MANCHESTER CTR 533430N 0020400W - 532730N 0015400W - 531616N 0020131W - 531055N 0022207W - 531050N 0022814W - 531255N 0023000W - 532141N 0023000W - 532638N 0022258W - 533430N 0020400W	Upper limit: 3500 FT ALT Lower limit: SFC	D	MANCHESTER RADAR English	5000 FT		To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity.
MANCHESTER ATZ A circle, 2.5 NM radius, centred at 532113N 0021630W on longest notified runway (05L/23R)	Upper limit: 2000 FT AGL Lower limit: SFC	D	MANCHESTER RADAR English	5000 FT		

EGCC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	MANCHESTER DIRECTOR	121.355 DOC 25 NM/ 10,000 FT.			As Directed by ATC	ATZ hours coincident with Approach hours.
	MANCHESTER RADAR	118.580 DOC 40 NM/ 15,000 FT.			H24	
		135.005 DOC 40 NM/ 15,000 FT.			As Directed by ATC	
TWR	MANCHESTER DELIVERY	121.705 Departing aircraft are to make initial call on 121.705 MHz to 'Manchester Delivery' or 'Manchester Ground' as appropriate.			0630-2200 (0530-2100).	
	MANCHESTER GROUND	121.855 DOC 5 NM/GND.			0630-2200 (0530-2100).	
	MANCHESTER TOWER	118.630 DOC 25 NM/ 10,000 FT.			H24	
		119.405 DOC 25 NM/ 10,000 FT.			H24	
TWR	MANCHESTER GROUND	121.705 Departing aircraft are to make initial call on 121.705 MHz to 'Manchester Delivery' or 'Manchester Ground' as appropriate.			2200-0630 (2100-0530).	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
ATIS ARR	MANCHESTER INFORMATION	113.550 DOC 60 NM/ 20,000 FT. Broadcast on Manchester VOR.			H24	
		128.180 DOC 60 NM/ 20,000 FT.			H24	
ATIS DEP	MANCHESTER DEPARTURE INFORMATION	121.980 DOC 5 NM/GND.			H24	Also available by telephone: 0161-209 2860. ATIS broadcast does not include NOTAM information and should not be solely relied upon for flight planning purposes.
OTHER	MANCHESTER FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle on the ground attending aircraft in an emergency.	

EGCC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 0.46°E (2027)	IMM	109.500 MHz	HO	532149.89N 0021514.48W		(RWY 05L)
ILS/GP	IMM	332.600 MHz	HO	532053.81N 0021700.07W		3° ILS Ref Datum Hgt 57 FT.
ILS/LOC I 0.46°E (2027)	IMC	111.550 MHz	HO	532105.47N 0021612.88W		(RWY 05R)
ILS/GP	IMC	332.750 MHz	HO	531958.46N 0021820.71W		3° ILS Ref Datum Hgt 50 FT.
ILS/LOC III 0.45°E (2027)	INN	109.500 MHz	HO	532026.53N 0021806.96W		(RWY 23R) False Localiser Capture may be experienced when approaching RWY 23R from the North and South.
ILS/GP	INN	332.600 MHz	HO	532131.24N 0021542.66W		3° ILS Ref Datum Hgt 55 FT.
DME	IMC	52Y 111.550 MHz	HO	531958.58N 0021820.74W	200 FT	
DME	IMM	32X 109.500 MHz	HO	532111.40N 0021623.01W	264 FT	(RWY 05L) Range 15 NM. Zero range indicated at THR of runway in use. DME freq paired with ILS I-MM and I-NN.
DME	INN	32X 109.500 MHz	HO	532111.40N 0021623.01W	264 FT	(RWY 23R) Range 15 NM. Zero range indicated at THR of runway in use. DME freq paired with ILS I-MM and I-NN.
VOR/DME 0.46°E (2027) 0.1°E (2022)	MCT	82Y 113.550 MHz	H24 Hours of operation for aerodrome purposes: HO	532125.29N 0021544.24W	280 FT	VOR DOC: 20 NM/50,000 FT (25 NM/ 50,000 FT in Sector R250-355). DME DOC: 90 NM/50,000 FT.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 0.69°E (2027) 0.4°E (2025)	TNT	104X 115.700 MHz	H24	530314.23N 0014011.90W	994 FT	RNAV substitution only. VOR DOC: 20 NM/50,000 FT (40 NM/ 50,000 FT in Sector R100-205). DME DOC: 80 NM/50,000 FT (100 NM/ 50,000 FT in Sector R300-000).

EGCC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Manchester CTR.
b) All aircraft inbound to Manchester are to report aircraft type, latest ATIS received and cleared level on first contact with Manchester Approach.
c) All flights are at all times subject to PPR. The filing of a flight plan with NATS Ltd does not constitute permission to use Manchester Aerodrome.
d) Available H24, subject to the procedure and requirements listed at paragraph (f).
e) Subject to paragraph g Operators of General and Business Aviation aircraft may only operate it they obtain permission to do so from the aerodrome operator in advance of each movement.
f) Applications for prior permission and runway slots should be addressed as follows:

i. All requests for slots during office hours (0900-1700 (0800-1600)) are to be directed to Airport Co-ordination Ltd (ACL) Tel: 0161-493 1850/1851/1852, E-mail: manchester@acl-uk.org, SITA: LONACXH;
ii. Slots outside office hours can be requested from Manchester Airport Plc, Airfield Operations, Tel: 0161-489 3657.

These applications must include the following information:

1. Aircraft Owner/Operator;
2. aircraft type and registration;
3. flight number (if applicable);
4. Requested time of arrival and departure at Manchester;
5. Nominated handling agent at Manchester.

g) Diversion Procedure — All operators are advised that before filing Manchester as an alternate, they are required to have made arrangements for ground handling; this arrangement is subject to the agreement of the Airport Management. Nothing in this procedure shall, however, prevent an aircraft that has declared an emergency from landing.
h) Fixed Electrical Ground Power must be used wherever available and serviceable. Use of GPU and APU should be limited to minimise environmental impact.
i) Due to aerodrome capacity and associated works in progress, operators of aircraft with wingspan greater than 36 M (ICAO Code D, E and F) scheduled to arrive between 0300 (0200) and 0800 (0700) are advised to plan for arrival in accordance with scheduled in blocks time (SIBT). Aircraft estimated to arrive before SIBT may be subject to extended air and ground holding delays.

2 GROUND MOVEMENT

a) All surface movement of aircraft, vehicles and persons on the Manoeuvring area is subject to ATC authority.
b) Start-Up Procedures.

i. ATC are responsible for clearance delivery.
ii. Pilots are requested to call Manchester Delivery for ATC clearance (stating aircraft type, stand number and code letter of latest ATIS received) at least 10 minutes, but not more than 15 minutes before start-up to allow for departure data to be processed.
iii. Start up and push-back clearance is given by Ground Movement Control. **Start-up approval does not imply approval to push-back**.
iv. Pilots are required to inform Clearance Delivery when ready to start. Aircrew shall include their cleared departure SID in this call.
v. When requesting start-up or push-back pilots should give the full call sign, type and stand number. Aircraft must be ready in all respects to start and if necessary push-back before calling on the appropriate frequency. **Pilots should only request push-back when they are actually ready to do so**.
vi. When requesting push-back clearance, pilots are to inform ATC if headset communication with ground crew is not established. Push back clearance must not be requested until the ground crew has confirmed to the flight deck that the aircraft is closed up and the tug is manned and fully ready to move.
vii. If within 30 minutes of a previously issued CTOT the flight is unable to comply with that CTOT, the pilot should advise Manchester Delivery as soon as possible.
viii. Pilots are advised that delays in excess of 10 minutes can be expected at the Holding Point during busy morning and evening periods. Sufficient time should be allowed for start, push-back and taxi to take account of such a delay especially if to comply with an CTOT.

c) **Manchester Delivery.**

i. Manchester Delivery will be responsible for passing ATC clearance to aircraft prior to start-up. **Push-back approval will only be given on the GMC frequency;**
ii. Pre-departure clearance by datalink is available at Manchester for suitably equipped aircraft. For further information contact ATC Operations, Tel: +44-(0)161-209 2825.

d) **Ground Movement Control (GMC)** will be responsible for:

i. the surface movement of all aircraft on the manoeuvring area excluding the runway(s) in use;
ii. issuing start-up and push-back/taxi clearance within the apron areas;
iii. the control of arriving aircraft after they leave the runway(s) in use, except in the case of landing on Runway 05R when aircraft will be transferred to Manchester Tower on 118.630 MHz for crossing Runway 05L;
iv. Communicating allocated parking stand number.

e) **Push-back Procedures**.

i. All aircraft making requests for taxiing or towing clearance on the GMC frequency should state their location in the initial call.
ii. Aircraft requesting push-back must be in direct communication with the tug crew, via a headset person. Aircraft must inform ATC if they have no direct communication with a headset person.
iii. Aircraft will not be permitted to reverse off pier-served stands under their own power. Aircraft may be permitted to reverse off remote stands at the discretion of the aerodrome authority. Permission must be obtained from the Airfield Duty Manager (Ext. 3331) via ATC prior to manoeuvre.
iv. Aircraft that require to depart from T1 on Runway 23L for performance reasons must inform Manchester Delivery prior to requesting push-back.

f) **Push and Park Procedures**.

i. A policy is in force at Manchester where flights subject to en-route ATC delays may request, or may be required, to push off stand and re-position at a remote location awaiting CTOT.
ii. Airlines must co-ordinate push and park requests via Handling Agent, who must liaise with Airfield Control (telephone (0)161 489 3695).
iii. Requests to push and park are to be made on the Clearance Delivery frequency.
iv. ATC clearance for push and park manoeuvre will be given on the GMC frequency to the tug crew and not to the flight deck crew. Flight deck crew should monitor GMC frequency and note the instructions given.
v. Remote locations for push and park are limited and subject to the conditions stated in the Manchester Airport Aerodrome Manual.
vi. When in position at the remote location flight crew must monitor Clearance Delivery frequency.
vii. Aircraft may taxi away from a remote parking location with caution and using minimum power.

g) **Push and Hold Procedures**.

i. A policy is in force at Manchester where flights subject to en-route ATC delays may request, or may be required, to push off stand and re-position at a remote location awaiting CTOT.
ii. Airlines must co-ordinate push and hold requests via Handling Agent, who must liaise with Airfield Control (telephone (0)161-489 3695).
iii. Requests to push and hold are to be made on the Clearance Delivery frequency.
iv. ATC clearance for push and hold manoeuvre will be given on the GMC frequency to the flight deck crew. Flight deck crew should monitor GMC frequency and note the instructions given.
v. Remote locations for push and hold are limited and subject to the conditions stated in the Manchester Airport Aerodrome Manual.
vi. When in position at the remote location flight crew must monitor Clearance Delivery frequency.
vii. Aircraft may taxi away from a remote parking location with caution and using minimum power.

h) **Ground Movement Restrictions**.

i. Vehicular traffic operating on apron roadways to the rear of aircraft stands, parallel to taxi-lanes. Distance from taxi-lane centre-line to roadway varies between 34 M and 38.5 M for Code E taxi-lanes, the closest being alongside Taxiways J, L and R. There are also several roadway crossings of taxi-lanes (vehicular traffic on these roadways is not under ATC control but is required to give way to aircraft. Pilots should be aware of the proximity of road traffic whilst manoeuvring around the apron taxi-lanes).
ii. Taxiways Quebec and November-Charlie will be used during peak movement rates. In darkness or if Low Visibility Procedures are in force a 'Follow-Me' will be provided.
iii. Taxiway Golf, east of Stand 55 is restricted to aircraft with a maximum wingspan of 36 M.
iv. AN-124 aircraft will be provided with wing-tip escort vehicles on taxiways northside of Runway 05L/23R.
v. Pilots of long-wheelbase aircraft such as B777-300 and A340-600 should exercise caution when negotiating taxiway curves and intersections as main-gear to pavement edge clearance may be limited.
vi. A380 aircraft – Taxiway routes available to A380 are shown on aerodrome chart AD 2-EGCC-2-3, marked in yellow. Reduced taxiway centre-line to object clearance of 49 M applies along Taxiways Alpha and Juliet (between J1 and J4).
vii. Taxiways November-Alpha Blue, November-Alpha Orange, November-Bravo Blue, November-Bravo Orange, Zulu-Blue and Zulu-Orange are restricted to aircraft with maximum wingspan of 36 M or less.

i) **Ground Manoeuvring Restrictions**.

i. ATC instructions will normally specify the taxi route to be followed. This does not necessarily guarantee clearance from other aircraft, vehicles and obstructions on the manoeuvring area.
ii. Pilots are reminded of the need to exercise caution on wingtip clearances from other aircraft when manoeuvring in close proximity on the ground. Particular care should be taken in the runway holding areas and at runway crossing points.

iii. B777, A340-600 and A380 aircraft are prohibited from using Taxiway Lima.
iv. Pilots are reminded not to cross red stop bars unless authorised to do so by ATC.
v. It is the Commander's responsibility not to accept an ATC clearance into an area not approved for the type of aircraft.

j) **Aircraft Blast Warnings**.

i. Jet aircraft are to engage minimum power when using Taxiways Alpha, Bravo and Papa (vicinity of holding position P1) due to the proximity of light aircraft operations in this area.
ii. Aircraft using Taxiways Lima, November-Alpha and November-Bravo are to use minimum power.
iii. Minimum power to be used by outbound aircraft using Taxiway November-Delta between holding position ND2 and abeam Stand 32 (Pier C).

k) **General Apron Safety**.

i. The wearing of high visibility clothing by all employed on the apron areas, including flight crew and flight attendants is mandatory.

l) **Operational Towing**.

i. It may not be recommended by aircraft manufacturers to conduct ‘operational towing’. Operational towing is described as manoeuvring an aircraft under tow (with or without tow bar) that contains passengers, cargo or fuel. Airline operators shall satisfy themselves that operational towing can be conducted on their aircraft and ensure any restrictions to undertake towing manoeuvres are communicated to the relevant ground handling agent and Manchester Airport. It remains the airline operator’s responsibility to assess the risks posed to its aircraft associated with any push-back or towing procedures.

m) **De-icing**.

i. Manchester has three remote de-icing pads:

1. Taxiway November-Charlie between Taxiways November-Delta and Echo, controlled by Maverick, which can accommodate up to a maximum 1 x B757 aircraft.
2. Taxiway Bravo between Intermediate Holding Positions B4 and B5, controlled by Iceman, which can accommodate up to a maximum 1 x B757 aircraft.
3. Taxiway Juliet between Intermediate Holding Position J2 and Runway Holding Position J1, controlled by Goose, which can accommodate 1 x Code E aircraft.

ii. Aircraft intending to use the remote de-icing pad will inform delivery on frequency 121.705 MHz when they request start-up.
iii. De-icing of aircraft is performed with engines running.
iv. Propeller aircraft are de-iced on the apron ramp. De-icing is performed with engines switched off.
v. The ATC frequency 121.855 MHz has to be monitored during de-icing on Taxiway November-Charlie and Taxiway Bravo.
vi. Due to its proximity to the runway, the ATC frequency 118.630 MHz has to be monitored during de-icing on Taxiway Juliet.

n) **Surface Movement Radar.**

i. Manchester Airport is equipped with an advanced surface movement radar utilising Mode-S.
ii. Aircraft operators intending to use Manchester Airport should ensure that Mode-S transponders are able to operate when the aircraft is on the ground.
iii. Flight crew should select XPNDR or the equivalent according to specific installation, AUTO if available, not OFF or STDBY, and the assigned Mode-A code:

1. From the request for push back or taxi, whichever is earlier.
2. After landing, continuously until the aircraft is fully parked on stand.

iv. After parking the Mode-A code 2000 must be set before selecting OFF or STD BY.
v. Flight crew of aircraft equipped with Mode-S having an aircraft identification feature should also set the aircraft identification. This setting is the aircraft identification specified in Item 7 of the ICAO ATC Flight Plan. The aircraft identification should be entered from the request for pushback or taxi, whichever is earlier, through the FMS or the Transponder Control Panel.

3 CAT II/III OPERATIONS

a) Runways 05L and 23R, subject to serviceability of the required facilities are suitable for Category II and III operations. However due to terrain profile, 05L Category II approaches may only be made by aircraft in ICAO Category A and B (VAT no greater than 120 KT) and when the ILS status is Category III.
b) During Category ll and lll operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed when these procedures are in operation by Arrival and Departure ATIS or by RTF.
c) Departing Aircraft: ATC will require departing aircraft to use the following runway holding points:

Runway 05L - Alpha 1, Alpha-Golf 1, Alpha Foxtrot 1.
Runway 23R - Juliet 1, Mike 1.

d) Arriving Aircraft: All appropriate runway exits will be illuminated, and pilots should select the first convenient exit. Pilots are to delay the call 'runway vacated' until the aircraft has completely passed the end of the green/yellow colour coded taxiway centre-line lights. These lights denote the extent of the ILS Localizer sensitive area. Surface Movement Radar (SMR) is available to monitor pilot ‘runway vacated’ reports.

e) Taxiways lit stopbar block-to-block aircraft separation in operation at or below IRVR 200 M.
f) When Low Visibility Procedures are in force a much reduced landing rate can be expected due to the requirement for increased spacing between arriving aircraft. In addition to the prevailing weather conditions such factors as equipment serviceability may also have an effect on actual landing rates. For information and planning purposes, the approximate landing rates that can be expected are:

IRVR (m)	Approximate Landing Rate
Between 1000 and 600	20
Between 600 and 400	12
Less than 400	10

4 WARNINGS

a) Flocks of up to 100 racing pigeons may be encountered flying across the airfield below 100 FT during the racing season, April - September.
b) Pilots of aircraft equipped with radio altimeters are warned that such altimeters may show large height fluctuations when approaching to land on Runway 05L due to the aircraft flying over the Bollin Valley at the south western end of the runway.
c) 4 high visibility bright lights from golf driving range. 1500 M left of threshold of Runway 23R. (SS-2130 (SS-2030)).
d) Pilots are warned, when landing on Runway 23R in strong north westerly winds, of the possibility of turbulence and large windshear effects.
e) For wildlife hazard management purposes, a bird scaring laser is deployed and utilised by the Airside Operations team.

5 HELICOPTER OPERATIONS

a) All rotary-wing aircraft will be treated as fixed wing operations and will be instructed to land and take-off on a runway. Aircraft unable to ground-taxi will be escorted by an Airfield Operations vehicle whilst in the hover.

6 USE OF RUNWAYS

a) General operating principles for two runway segregated operations. The two runways at Manchester are 390 M apart and staggered by 1850 M in order to comply with ICAO rules for Simultaneous Operations on parallel or near-parallel Instrument Runways (SOIR). Therefore in normal operations arrivals can operate independently on one runway whilst departures use the other.

   i. Dual runway segregated operations are normally in force during the following periods in Summer: Mon-Fri (0615-2000), Sat (0615-1600) Sun (0615-0930) and (1300-2000). At all other times, single runway, mixed-mode operations are in force using Runway 05L/23R.
   ii. Pilots requiring use of Runway 05R/23L for aircraft performance reasons outside dual runway segregated hours should advise ATC at the earliest opportunity. Efforts will be made to make Runway 05R/23L available, however, some delay may be experienced. Returning this runway to service may take in excess of 30 minutes and it should not be assumed to be available as a diversion alternate to Runway 05L/23R.
   iii. Due to local planning constraints, Runway 05R/23L is not normally available between the hours of 2200-0600 (2100-0500) daily.

   Note: *Pilots are required to read back all ATC 'hold short' instructions.*

b) Pilots should note that Runway 05L/23R has a convex 'hump-backed' profile, the highest point of which is abeam Link Hotel-Zulu. This characteristic has these significant operational implications:

   i. When lined up for take-off the full length of the runway surface may not be visible from the flight deck.
   ii. When landing on Runway 23R, the apex of the runway lies 700 M into the TDZ. Should the aircraft still be flared beyond this point the runway surface will be falling away at a significant rate, with the risk of a late touchdown.

c) Special runway utilisation procedures are detailed at GEN 3.3.
d) Minimum Runway Occupancy Time.

   i. Departures:

      1. Whenever possible, cockpit checks should be completed prior to line up and any checks requiring completion whilst on the runway should be kept to the minimum required. Pilots should ensure that they are able to commence the take-off roll immediately after take-off clearance is issued.
      2. Wake Vortex Departures: The following Links are considered by ATC to be the same departure points for the purposes of Vortex Wake separation:

Runway 23R –	Links Juliet and Mike;	Runway 05L –	Links Alpha and Alpha Golf;
Runway 23L –	Links Tango, Victor Alpha and Victor Bravo, or Links Victor Alpha, Victor Bravo and Uniform, or Links Victor Bravo and Uniform.	Runway 05R –	Links Whiskey and Yankee.

      When in receipt of a line-up clearance, the pilot must inform ATC **before** entering the runway if greater wake vortex separation will be required behind the preceding aircraft. Failure to do so may result in additional delay.

ii. Arrivals:

1. Wake Vortex Separation - Arrival: For the purposes of spacing in the approach phase certain aircraft types are classified as Upper Medium and following aircraft will be provided with additional separation. All other 'Medium' aircraft types are classified as Lower Medium. Wake Vortex separations are in accordance with the 5 group scheme.
2. Pilots are reminded that rapid exits from the landing runway enable ATC to apply minimum spacing on final approach that will achieve maximum runway utilisation and will minimise the occurrence of 'go-arounds'. Pilots should pre-plan their landing and roll-out to target the first suitable exit point that provides for a safe and expeditious exit from the runway.

23R	BD	AE	AG
Distance from Threshold (M)	1376	1908	2574
Design Exit Speed (KTS)	52	52	N/A
Note: *Landing aircraft are to vacate expeditiously. Arriving aircraft are to ensure fully vacated before stopping. Links P & F are not available as runway exits. Link AG is not a rapid exit taxiway.*			

05L	F	H	M
Distance from Threshold (M)	1447	1778	2249
Design Exit Speed (KTS)	N/A	N/A	N/A
Note: *Landing aircraft are to vacate expeditiously. Arriving aircraft are to ensure fully vacated before stopping. Link F is available as a runway exit in daylight hours only. Link P is not available as a runway exit. Links F, H and M are not rapid exit taxiways.*			

05R	VD	VC	U
Distance from Threshold (M)	1954	2254	2738
Design Exit Speed (KTS)	52	52	N/A
Note: *Landing aircraft are to vacate expeditiously. When applicable, a suitable roll-out speed is to be maintained to RET VD to minimise runway occupancy time. Arriving aircraft are to ensure fully vacated before stopping. Link U is not a rapid exit taxiway.*			

3. Runway 05R arrivals. All aircraft must vacate the runway no later than Victor Bravo and proceed direct to Taxiway Victor. Aircraft remaining on the runway to vacate at Victor Alpha or Tango will infringe the ILS LOC critical area. Similarly, Taxiway Sierra is not to be used.
4. During dual-runway operations, in the event of a blockage/unserviceability on the arrival runway, ATC may offer pilots a visual switch of approach from Runway 23R to 23L, or from Runway 05R to 05L. This will only happen when the landing aircraft is more than 4 NM from touchdown and when visibility is greater than 5 KM.

e) Runway 23R/05L only. The hard shoulders outboard of the runway side stripes have only 25% of the runway bearing strengths and should not be used by aircraft turning on the runway or when backtracking. The grass verges are unstrengthened and when wet unlikely to sustain loads.

7 TRAINING

a) Simulated engine failure training is not to be carried out by aircraft departing from Runway 05L/05R.

EGCC AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

All aircraft inbound or outbound from this airport are required to conform to the following procedures, not withstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

a) Every operator of aircraft using the airport shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
b) After take-off every jet aircraft shall, in addition to complying with the Noise Preferential Routeings specified for each runway, be operated in such a way that it is at a height of not less than 1000 FT AAL, at the point nearest to the relevant noise monitoring terminal (AD 2-EGCC-3-2). Details of noise monitoring locations and performance are obtainable from the Flight Evaluation Unit. Email: flightevaluationunit@magairports.com.
c) Unless otherwise authorised by ATC, aircraft using the ILS in IMC and VMC shall not descend below 2000 FT before intercepting the glidepath, nor thereafter fly below it. An aircraft approaching without assistance from ILS or radar shall follow a descent path which will not result in its being at any time lower than the approach path which would be followed by an aircraft using the ILS glidepath.
d) Every jet aircraft using the airport shall, after take-off or 'go-around', maintain after passing the relevant monitoring point, a rate of climb of at least 500 FT per minute at power settings which will ensure progressively decreasing noise levels at points on the ground under the flight path beyond the monitoring point.
e) For visual approaches, or following a visual circuit, to Runway 23R/23L the following additional limitations apply:

i. Jet aircraft shall not join the final approach at a height of less than 1500 FT AAL.

ii. Propeller driven aircraft whose MTWA exceeds 5700 KG shall not join the final approach at a distance of less than 3 NM from the landing threshold and at a height of less than 1000 FT AAL.

f) To minimise disturbance in areas adjacent to the airport, Captains are requested to avoid the use of reverse thrust after landing, consistent with safe operation of the aircraft, especially between 2300-0700 (2200-0600).

2 NOISE PREFERENTIAL ROUTES

a) The Noise Preferential Routes specified in the following table are compatible with ATC requirements and the tracks are to be flown by all departing aircraft until the level defined in the table below is reached, except:

i. Aircraft whose MTWA does not exceed 5700 KG;
ii. Those aircraft instructed by ATC to make early turns in order to expedite traffic flow, such instructions may be issued during the period 0700-2300 (0600-2200), to propeller aircraft whose MTWA does not exceed 23,000 KG and the following jet aircraft types: All aircraft up to 35,000 KG MTOW plus BAe 146 (Avro RJ Series), CRJ1, CRJ2, CRJ7, CRJ9, EMB-135/145, BD700 Global Express and Gulfstream 5;
iii. Unless otherwise instructed by ATC or deviations are required in the interests of safety.

The use of these routes is supplementary to noise abatement take-off techniques. After take-off, pilots should ensure that they are at a minimum height of 500 FT AAL before commencing any turn.

Take-off Runway	ATC Clearance	Procedure	NPR Termination	Take-off Runway	ATC Clearance	Procedure	NPR Termination
05L	Via LISTO	At MCT DME 1.2, turn right onto track 148° MAG. At MCT DME 2.7 turn right onto POL VOR R185.	5000 FT	05R	Via LISTO	At MCT DME 1.2, turn right onto POL VOR R185 to LISTO.	5000 FT
	Via ASMIM	At MCT DME 2, turn left onto track 298° MAG towards XOBRO to intercept WAL VOR R079.	4000 FT		Via ASMIM	At MCT DME 2, turn left onto track 298° MAG towards XOBRO to intercept WAL VOR R079.	4000 FT
	Via Pole Hill VOR	Straight ahead at not below 757 FT ALT (500 FT AAL), but not before DER, adjust track onto MCT VOR R051. At MCT DME 7 turn left onto POL VOR R179.	4000 FT		Via Pole Hill VOR	Straight ahead on MCT VOR R051. At MCT DME 7 turn left onto POL VOR R179.	4000 FT
	Via DESIG	Straight ahead at not below 757 FT ALT (500 FT AAL), but not before DER, adjust track onto MCT VOR R051. At MCT DME 14 turn right onto WAL VOR R079.	4000 FT		Via DESIG	Straight ahead on MCT VOR R051. At MCT DME 14 turn right onto WAL VOR R079.	4000 FT

Take-off Runway	ATC Clearance	Procedure	NPR Termination	Take-off Runway	ATC Clearance	Procedure	NPR Termination
23R	Via LISTO †	At MCT DME 2 turn left onto track 161° MAG to establish on HON VOR R337.	5000 FT	23L	Via LISTO †	At MCT DME 3.2 turn left onto track 154° MAG to establish on HON VOR R337.	5000 FT
	Via EKLAD or KUXEM	At MCT DME 3 turn right onto track 273° MAG to intercept MCT VOR R253.	3000 FT		Via EKLAD or KUXEM	At MCT DME 3.2 turn right onto track 284° MAG to intercept MCT VOR R253.	3000 FT
	Via Pole Hill VOR	At MCT DME 3 turn right onto track 343° MAG towards XUMAT. At MCT DME 8 turn right onto POL VOR R218.	4000 FT		Via Pole Hill VOR	At MCT DME 3.2 turn right onto track 343° MAG towards XUMAT. At MCT DME 8 turn right onto POL VOR R218.	4000 FT
	Via SONEX	At MCT DME 3 turn right onto track 343° MAG towards XUMAT. At MCT DME 8 turn right onto WAL VOR R079.	4000 FT		Via SONEX	At MCT DME 3.2 turn right onto track 343° MAG towards XUMAT. At MCT DME 8 turn right onto WAL VOR R079.	4000 FT
	Via SANBA	At MCT DME 3 turn right onto track 273° MAG. At MCT DME 5 turn left to TABLY to intercept HON VOR R332.	5000 FT		Via SANBA	At MCT DME 3.2 turn right onto track 283° MAG. At MCT DME 5 turn left to TABLY to intercept HON VOR R332.	5000 FT

† LISTO SIDs only available to:

(aa) Non-Jet aircraft; and

(bb) The following jet aircraft.

All aircraft up to 35,000 KG MTOW, plus Bae 146 (Avro RJ series), Embraer E135, E145, Bombardier CRJ1, CRJ2, CRJ7, CRJ9, BD700 Global Express and Gulfstream 5.

iv. Unless otherwise required by ATC, Runway 23R/23L shall be used for all movements when there is a head wind component and when a tail wind component is not greater than 5 KT on either runway or at 2000 FT.

v. Link Alpha should be used for all jet aircraft and all large propeller-driven aircraft departing from Runway 05L. However, between the hours 0600-2330 (0500-2230) any aircraft may depart from Links AG, AF and B subject to operational requirements by ATC/pilots. Between the hours 2330-0600 (2230-0500), all jet aircraft and large propeller-driven aircraft shall depart from the most westerly link available.

vi. Every aircraft using the airport shall, after take-off, be operated in the quietest possible manner. Aircraft exceeding the following noise levels will be subject to a penalty as detailed in the airport conditions of use.

Period (local time)	Max level dB(A)
0600 to 0700	82
0700 to 2300	90
2300 to 2330	82
2330 to 0600	81

vii. These levels shall be recorded at any of the noise monitoring sites as listed in the table below:

Runway	Site	Latitude	Longitude
23R	Site 2: Broad Oak Farm	531916.74N	0022031.94W
23R	Site 3: Mobberley School	531907.73N	0021853.62W
23L	Site 21: Parkgate Industrial Estate	531851.89N	0022115.14W
23L	Site 22: Pavement Lane	531839.28N	0022017.16W
05L	Site 6: Together Trust	532301.36N	0021248.60W
05L	Site 7: Cheadle Catholic School	532234.36N	0021236.72W
05R	Site 14: Daisy Bank	532218.54N	0021420.05W

3 AIRCRAFT NOISE QUOTA SYSTEM

Manchester Airport operates and manages a Night Noise Quota System, which is based on the CAA Supplement to the UK AIP, pertaining to the Airport Noise Restrictions Notice for London Heathrow, London Gatwick and London Stansted. The quota count value for the take-off and landing by individual aircraft types is shown in the Annexe to the above-mentioned Supplement.

4 NIGHT FLIGHTS

a) In the interests of noise abatement, certain restrictions are imposed on night jet flights at this airport; operators concerned are advised to obtain details from the Airfield Operations Duty Manager. The full night noise policy can be found on our website: www.manchesterairport.co.uk/community/environmental-management.
b) Night Jet Restrictions/Allocations

   i. Runway 23L/05R will not normally be used between 2200-0600 (2100-0500) except when Runway 23R/05L is closed for maintenance.
   ii. Manchester Airport operates a night Jet Policy restricting operations of certain types of aircraft during the periods of 2300-0700 (2200-0600).
   iii. The penalty scheme will be administered by a panel set up under the auspices of the Scheduling Committee which includes members of the Airlines Operators Committee and the Airport Authority.
   iv. Records of night infringements for this purpose will be available to the co-ordinators at the IATA scheduling conferences for summer seasons.
   v. Between the hours of 2300-0700 (2200-0600), visual approaches will not be permitted. Aircraft shall be positioned, by radar, to join the final approach at a distance of not less than 7 NM from touchdown. This restriction does not apply to non-jet aircraft whose MTWA is 5700 KG or below.

c) Operational Restrictions

   i. Between 2300-0659 (2200-0559) QC16 and QC8 aircraft will not be allowed to arrive or depart, except in case of emergency or where exempt.
   ii. Between 2330-0559 (2230-0459) QC4 aircraft will not be allowed to arrive or depart, except in case of emergency or where exempt.

d) Manchester Airport has strict limits on the numbers of aircraft movements each operational season between the hours of 2330-0600 (2230-0500). To maintain compliance within these limits any arriving aircraft with a scheduled time of 0615 (0515) or later will not be allowed to land until after 0600 (0500), and as such will be subject to airborne holding until a landing time can be achieved of after 0600 (0500).

   Departing aircraft with a scheduled time of 0555 (0455) will not be permitted to take-off before 0600 (0500).

5 CONTINUOUS DESCENT APPROACHES

Jet and turbo-prop aircraft approaching Manchester Airport are expected to minimise noise disturbance by the use of low power, low drag continuous descent approach procedures. For monitoring purposes, a descent will be deemed to have been continuous provided that no segment of level flight longer than 2.5 NM occurs below 5000 FT QNH and 'level flight' is interpreted as any segment of flight having a height change of not more than 50 FT over a track distance of 2 NM or more, as recorded in the airport noise and track-keeping system.

6 ENGINE TESTING

ATC will approve idle ground engine runs. A safety man must be positioned behind the aircraft to warn road traffic. Engine testing above ground idle is subject to the permission of the Airfield Operations Duty Manager and maybe subject to operational restrictions. For further information, please contact the Airport Authority. All engine tests above idle must commence in the Engine Test Bay. Times of operation are 0600-2200 (0500-2100) Monday to Friday and 0730–2200 (0630–2100) Saturday and Sunday. Engine testing on the open airfield will only be allowed for Chapter 3 aircraft between Mon-Fri 0900-1700 (0800-1600); Sat-Sun 0730-2200 (0630-2100). Chapter 4 and 14 aircraft 0600-2200 (0500-2100). Propeller driven aircraft are to be classified as Chapter 3.

7 TRAINING FLIGHTS

Training flights by all aircraft shall be subject to the approval of the Airfield Operations Duty Manager.

EGCC AD 2.22 FLIGHT PROCEDURES

1 RADIO COMMUNICATIONS FAILURE PROCEDURE

a) In the event of complete communication failure in an aircraft, the pilot will adopt the appropriate procedures notified at ENR 1.1, Section 3.4.

   Note: *No visual signals available at Manchester.*

2 PROCEDURES FOR INBOUND AIRCRAFT

a) **Standard Terminal Arrival Routes (STARs)**

i. Standard Arrival routes for aircraft inbound from the airways system will be routed via the Standard Terminal Arrival Routes (STARs) detailed at AD 2-EGCC-7 charts and summarized below.
ii. Where STARs are designated as RNAV1 Only, Non-RNAV 1 aircraft should file the via the existing route structure as featured in the SRD. Non-RNAV1 aircraft should not proceed beyond DAYNE / ROSUN or MIRSI (as appropriate) without ATC clearance.

b) **Clearance to enter the CTR**

i. Aircraft flying the Airways System will be cleared into the CTR without having to request a specific entry clearance.
ii. Aircraft wishing to enter the CTR or TMA under IFR direct from the London FIR must observe the normal procedure for joining Airways at one of the following Reporting Points:

Pole Hill VOR, Wallasey VOR and Whitegate NDB.

iii. Aircraft unable to comply with these procedures because they are not equipped for flight on Airways may, traffic and weather conditions permitting, be cleared to proceed to Manchester or Barton, in accordance with the procedures described at paragraph 5.

c) **Type of Approach**

i. All inbound IFR aircraft will be radar vectored to an ILS approach unless otherwise informed by ATIS/Approach Radar.
ii. Inbound IFR aircraft on STARS must not proceed beyond the end point of the STAR without specific ATC clearance. Inbound holding can be expected during busy periods.

d) **Holding**

i. From the Holding Point aircraft will be directed by Radar Traffic Director to Final Approach.

e) **Approach Procedures under Radar Control to Manchester Airport**

i. When inbound traffic is being sequenced by Radar, that part of the approach between the holding fix and the Final Approach Track (FAT) will be flown under directions from the Radar Controller. Once the aircraft is under Approach Radar Control, changes of heading or level/altitude will be made only on instructions from the Radar Controller except in the case of radio communication failure in the aircraft or at the Radar Unit. When cleared to descend, aircraft should descend at a rate of at least 500 FT per minute.

f) **Detailed Procedures**

i. Pilots should typically expect the following speed restrictions to be enforced: 220 KT from the holding facility during the intermediate approach phase; thereafter, and until established on final approach, the highest possible speed within the band 160-180 KT; when established on the ILS and thereafter until 4DME, 165 KT with a tolerance of +/- 5 KT. These speeds are applied for ATC separation and runway capacity purposes and are mandatory. In the event of a new (non-speed related) ATC clearance being issued (e.g. an instruction to descend on ILS), pilots are not absolved from a requirement to maintain a previously allocated speed. All speed restrictions are to be flown as accurately as possible. Aircraft unable to conform to these speeds should inform ATC and state what speeds will be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as feasible within their own operational constraints, advising ATC if circumstances necessitate a change of speed for aircraft performance reasons. The spacing provided between aircraft will be designed to achieve the maximum runway utilisation within the parameters of safe separation minima (including vortex effect) and runway occupancy. It is important to the validity of the separation provided that runway occupancy time is kept to a minimum consistent with the prevailing conditions.
ii. When cleared to descend aircraft should descend at a rate of at least 500 FT per minute (whilst above the transition altitude). ATC will advise pilots of an estimate of the track distance to run to touchdown when clearance to descend below the Transition Altitude is given. Further information on the distance from touchdown will be given between this descent clearance and the instruction to turn onto the intercept heading to the ILS Localizer. **Pilots are reminded that due to the high ground east of the Airport, descent below 3000 FT QNH will be in accordance with AD 2-EGCC-5-1**.

g) **Radar Vectoring Procedure for Runway 23R/23L - Manchester Airport ONLY**

i. Speed Limit Point. When Runway 23R/23L is in operation, all traffic inbound to Manchester from the south and southeast at FL 140 or below should be flown at 210 KT (IAS) or less when north of an arc drawn 17 DME from the Trent VOR in sector 300° MAG to 350° MAG unless otherwise authorised by ATC.
ii. IFR traffic entering the Manchester TMA from Controlled Airspace will be cleared initially to not less than 3500 FT QNH, except that descending IFR traffic entering the airspace between the TMA boundary and the boundary of the Radar Vectoring Area (RVA) intercepted between the extended centre-line of Runway 23R/23L and a line drawn 170° MAG from Manchester VOR, will be cleared initially to not less than 4000 FT QNH.
iii. ATC will not clear aircraft for descent below 3500 FT QNH, or 4000 FT QNH as appropriate, until within the RVA.
iv. In certain weather conditions, and perhaps for reasons of safety, pilots may not be able to comply with the speed limits quoted. In such circumstances, they should advise ATC immediately, stating the minimum speed acceptable.

h) **Approach Procedures Without Radar Control**

i. Not available at Manchester.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Speed Limit

i. A speed limit of 250 KT applies to all departures whilst flying below FL 100 unless previously removed by ATC.
ii. In certain weather conditions and perhaps for other reasons of safety, pilots may not be able to comply with the speed limit. When such circumstances are anticipated, the pilot should inform ATC when requesting start-up clearance, stating the minimum speed acceptable. In this event, pilots will be informed before take-off of any higher speed limitation. Similarly, should such circumstances arise during flight, the pilot should immediately advise ATC, stating the minimum speed acceptable.

b) Allocation of Cruising Levels

i. When a re-clearance of Altitude/Flight Level is issued after take-off by ATC, it is the responsibility of the pilot to comply with at least the minimum altitudes shown in the SID procedure during the climb to the new assigned Altitude/Flight Level.
ii. Exceptionally, when ATC issue a re-clearance below the final SID altitude pilots must not climb above this revised altitude until further clearance is received. Aircraft on certain SIDs will be required to 'confidence check' the departure routing.

c) Communications

i. To reduce flight-deck workload immediately after take-off from Manchester Airport, the appropriate 'Scottish Control' frequency to be used is detailed on the SID Chart. This will enable pilots to pre-select the frequency on an alternative communications channel. **It is essential that the frequency change is not made until instructed to do so by 'Manchester Tower' and the instruction has been acknowledged by the pilot. Due to interaction with go-arounds all departures can expect to stay on Tower frequency until passing 2500 FT.** When the aircraft is not operating on a SID clearance the appropriate 'Scottish Control' frequency to be used, when instructed, will be included in the ATC clearance message.

d) Radio Failure Procedure

i. In the event of complete radio communication failure in an outbound aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1, Section 3.4.
ii. For the purpose of radio failure, climb to flight-planned level should be commenced after the last position shown in column 4 of the SIDs where an altitude is specified.

4 PROCEDURES FOR FLIGHTS BETWEEN MANCHESTER AND LIVERPOOL

a) IFR flights between Manchester and Liverpool Airports will normally be cleared via the appropriate EKLAD or ASMIM (dependent on runway in use) Standard Instrument Departure.

5 VFR AND SPECIAL VFR FLIGHTS

a) Special VFR clearance for flights within the Control Zone may be requested and may be given in accordance with rules applicable to Class D airspace.
b) The use of Special VFR clearances is intended to be confined to light aircraft below 5700 KG MTWA which cannot comply with full IFR requirements.
c) VFR clearance in the Control Zone will be given for flights operating in VMC. Routeing instructions and/or altitude restrictions may be specified in order to integrate VFR flights with other traffic. Pilots are reminded of the requirement to remain in VMC at all times and to comply with the relevant parts of SERA and the Rules of the Air Regulations 2015, and must advise ATC if at any time they are unable to comply with the clearance instructions issued.
d) Aircraft operating VFR or Special VFR in the Manchester CTR inbound to Barton (EGCB) must not assume that co-ordination has taken place to allow aircraft to enter the Barton ATZ. Manchester Radar will, whenever possible, permit an aircraft to leave the frequency temporarily to establish two-way communication with Barton. If this is not possible, aircraft must leave the CTR clear of the Barton ATZ and route to Barton from outside controlled airspace.
e) Pilots requiring a VFR or Special VFR clearance to transit the Manchester CTR must remain clear of controlled airspace until a clearance has been obtained by RTF from Manchester Radar.

6 VFR AND SPECIAL VFR ROUTES TO/FROM MANCHESTER AIRPORT

a) In order to integrate VFR and Special VFR flights to/from Manchester Airport with the normal flow of IFR traffic, a number of Standard Routes are established along which ATC VFR and Special VFR clearances will be issued subject to the conditions specified above. These routes are defined by prominent ground features (eg Motorways) and are detailed below.
b) In order to reduce RTF congestion of Clearance Delivery frequencies, the standard outbound Visual Routes are allocated Route Designators. Pilots are to ensure that they are familiar with the route alignment and altitude restrictions prior to departure.

Standard Outbound Visual Routes

Exit Point	Runway	Route Designator	Route	Maximum Altitude (QNH)	Remarks
Thelwall Viaduct VRP	05L/05R	Thelwall 2 Visual	Cross M56 Motorway. Route north of M56 and leave the CTR via Thelwall Viaduct VRP.	1300 FT	a) Avoid overflying Lymm. b) Inbound traffic operates south of M56 for RWY 05L and 05R.

Exit Point	Runway	Route Designator	Route	Maximum Altitude (QNH)	Remarks
Macclesfield South VRP	23R/23L	Macclesfield 1 Visual	Left turn towards Alderley Edge Hill VRP. Route west then south of Alderley Edge Hill and join the Macclesfield Entry/Exit Lane at Prestbury Station. Keep the railway line on the left and leave the CTR via Macclesfield South VRP	2500 FT (Notes 1, 2 and 6)	a) Maximum altitudes 1500 FT between Manchester and the northern edge of Macclesfield, 2500 FT south of the northern edge of Macclesfield to the CTR Boundary. b) **Warning:** High ground to the east of the Entry/Exit Lane. c) Aircraft may be routed direct from Manchester to Prestbury Station, or via disused Woodford aerodrome. d) Aircraft must not leave the confines of the Entry/Exit Lane without prior co-ordination with ATC. e) **Caution:** Alderley Edge 650 FT AMSL.

Standard Inbound Visual Routes

Entry Point	Runway	Route Designator	Route	Maximum Altitude (QNH)	Remarks
Stretton (Disused AD) VRP	05L/05R	Stretton 1 Visual	From Stretton (Disused AD) VRP, route via M56 Motorway, keeping the Motorway on the left. Join left base Runway 05L.	1300 FT	a) Outbound traffic operates north of M56. b) Aircraft may be held at Stretton (Disused AD) VRP or Rostherne VRP.
Macclesfield South VRP	23R/23L	Macclesfield 1 Visual	From CTR Boundary east of Macclesfield VRP, route via the Macclesfield Entry/Exit Lane (keeping railway line on left) to disused Woodford Aerodrome. Join left base for Runway 23R/ 23L.	2500 FT (Notes 1, and 5)	a) Maximum altitudes 2500 FT between CTR Boundary and the northern edge of Macclesfield, 1500 FT north of Macclesfield. b) Aircraft may be held at Hilltop VRP, which is defined as the open area 1 NM North West of the disused Woodford aerodrome factory. Pilots must hold by visual reference to ensure that the holding pattern does not deviate to the north, which would come into conflict with Runway 23R final instrument approach, particularly in a southerly wind. c) When Runway 23L is in use as the landing runway, Hilltop VRP will not be used. VFR inbound aircraft can expect to hold overhead disused Woodford aerodrome. d) Pilots should contact Manchester Radar initially on 118.580 MHz. e) **Warning:** High ground to the east of the Entry/Exit Lane. f) Aircraft must not leave the confines of the Entry/Exit Lane without prior co-ordination with ATC. g) Aircraft experiencing a radio failure **inbound** to Manchester whilst in the Macclesfield Entry/Exit Lane, or holding at Hilltop, are to carry out the Radio Communication Failure procedure detailed at ENR 1-2-2, paragraph 2.9 ***Note:*** *No visual signals available at Manchester.*

7 EGR323 NORTH WEST TRANSIT CORRIDOR

a) The EGR323 North West Transit Corridor lies immediately to the west of the Manchester CTR and beneath Manchester CTA airspace. EGR323 procedures are described at ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS.

8 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating outside the Manchester CTR/CTA within the airspace bounded by the following coordinates:

533723N 0023744W - 534459N 0020433W -
533650N 0015216W - 532510N 0014456W -
530412N 0015647W - 530253N 0023751W -
533723N 0023744W

are encouraged to select SSR code 7366 (7367 for student solo pilots) and maintain a listening watch on Manchester Radar, frequency 118.580 MHz.

b) Whilst squawking 7366/7367, pilots should be aware that Manchester Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
c) Selection of SSR code 7366/7367 does not imply the provision of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances; they are to remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Manchester CTR/CTA at all times.
d) When a pilot ceases to maintain a listening watch, SSR code 7366/7367 shall be deselected.

9 VISUAL REFERENCE POINTS (VRP)

a) Remain to the east of Burtonwood Services/M56 Junction 11 VRPs to remain clear of Liverpool CTR.
b) Remain to the west of Stretton (Disused AD)/Thelwall Viaduct VRPs to remain clear of Manchester CTR.
c) Remain to the west of Winsford Flash VRP to avoid over flying Winsford.
d) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGCC AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGCC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCC-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGCC-2-2
AERODROME CHART A380 GROUND MOVEMENT - ICAO
AD 2.EGCC-2-3
AIRCRAFT GROUND MOVEMENT - REMOTE DE-ICING AREAS LOCATION CHART - ICAO
AD 2.EGCC-2-4
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGCC-3-1
NOISE PREFERENTIAL ROUTEINGS
AD 2.EGCC-3-2
CONTROL ZONE and CONTROL AREA CHART - ENTRY/EXIT LANES and VRPS
AD 2.EGCC-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGCC-5-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) ASMIM 1S 1Z/KUXEM 1R 1Y/EKLAD 1R 1Y - ICAO
AD 2.EGCC-6-1
STANDARD DEPARTURE CHART - INSTRUMENT (SID) LISTO 2S 2Z - ICAO
AD 2.EGCC-6-2
STANDARD DEPARTURE CHART - INSTRUMENT (SID) (RESTRICTED USE) LISTO 2R 2Y - ICAO
AD 2.EGCC-6-3
STANDARD DEPARTURE CHART - INSTRUMENT (SID) POL 5R 4S 1Y 1Z - ICAO
AD 2.EGCC-6-4
STANDARD DEPARTURE CHART - INSTRUMENT (SID) SONEX 1R 1Y/DESIG 1S 1Z - ICAO
AD 2.EGCC-6-5
STANDARD DEPARTURE CHART - INSTRUMENT (SID) (JET AIRCRAFT ONLY) SANBA 1R 1Y - ICAO
AD 2.EGCC-6-6
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) LAKEY 1M SETEL 1M TILNI 1M - ICAO
AD 2.EGCC-7-1

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) LIBSO 1M OTBED 1M - ICAO
AD 2.EGCC-7-2
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) MAKUX 1M MALUD 1M AXCIS 1M PENIL 1M - ICAO
AD 2.EGCC-7-3
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ELVOS 1M LESTA 1M - ICAO
AD 2.EGCC-7-4
STANDARD INSTRUMENT ARRIVAL CODING TABLES LAKEY 1M SETEL 1M TILNI 1M LIBSO 1M
AD 2.EGCC-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES OTBED 1M MAKUX 1M MALUD 1M AXCIS 1M
AD 2.EGCC-7-6
STANDARD INSTRUMENT ARRIVAL CODING TABLES PENIL 1M ELVOS 1M LESTA 1M
AD 2.EGCC-7-7
RNAV HOLD CODING TABLES DAYNE MIRSI ROSUN
AD 2.EGCC-7-8
INSTRUMENT APPROACH CHART ILS/DME (I-MC) RWY 05R - ICAO
AD 2.EGCC-8-1
INSTRUMENT APPROACH CHART ILS/DME (MCT) RWY 05R - ICAO
AD 2.EGCC-8-2
INSTRUMENT APPROACH CHART LOC/DME (I-MC) RWY 05R - ICAO
AD 2.EGCC-8-3
INSTRUMENT APPROACH CHART VOR/DME RWY 05R - ICAO
AD 2.EGCC-8-4
INSTRUMENT APPROACH CHART ILS/DME (I-MM) RWY 05L - ICAO
AD 2.EGCC-8-5
INSTRUMENT APPROACH CHART ILS/DME (MCT) RWY 05L - ICAO
AD 2.EGCC-8-6
INSTRUMENT APPROACH CHART LOC/DME RWY 05L - ICAO
AD 2.EGCC-8-7
INSTRUMENT APPROACH CHART VOR/DME RWY 05L - ICAO
AD 2.EGCC-8-8
INSTRUMENT APPROACH CHART ILS/DME (I-NN) RWY 23R - ICAO
AD 2.EGCC-8-9
INSTRUMENT APPROACH CHART ILS/DME (MCT) RWY 23R - ICAO
AD 2.EGCC-8-10
INSTRUMENT APPROACH CHART LOC/DME RWY 23R - ICAO
AD 2.EGCC-8-11
INSTRUMENT APPROACH CHART VOR/DME RWY 23R - ICAO
AD 2.EGCC-8-12
INSTRUMENT APPROACH CHART VOR/DME RWY 23L - ICAO
AD 2.EGCC-8-13
INSTRUMENT APPROACH CHART RNP RWY 23L - ICAO
AD 2.EGCC-8-14
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 23L
AD 2.EGCC-8-15

EGCC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

532113N 0021630W

ELEV 257FT

MANCHESTER
EGCC

LIGHTING	
THR 05L/23R THR 05R/23L	HI green with HI green W bars. HI green with HI green W bars.
RWY 05L/23R RWY 05R/23L	HI bi-d edge. HI colour coded C/L. End lights red. TDZ 900 m. HI elev bi-d with LI omni-d component. HI colour coded C/L. End lights red.
TWY	Green C/L, blue edge on sharp curves. Red stop bars at holding points. Green/yellow lead-off C/L to CAT III stop bars.

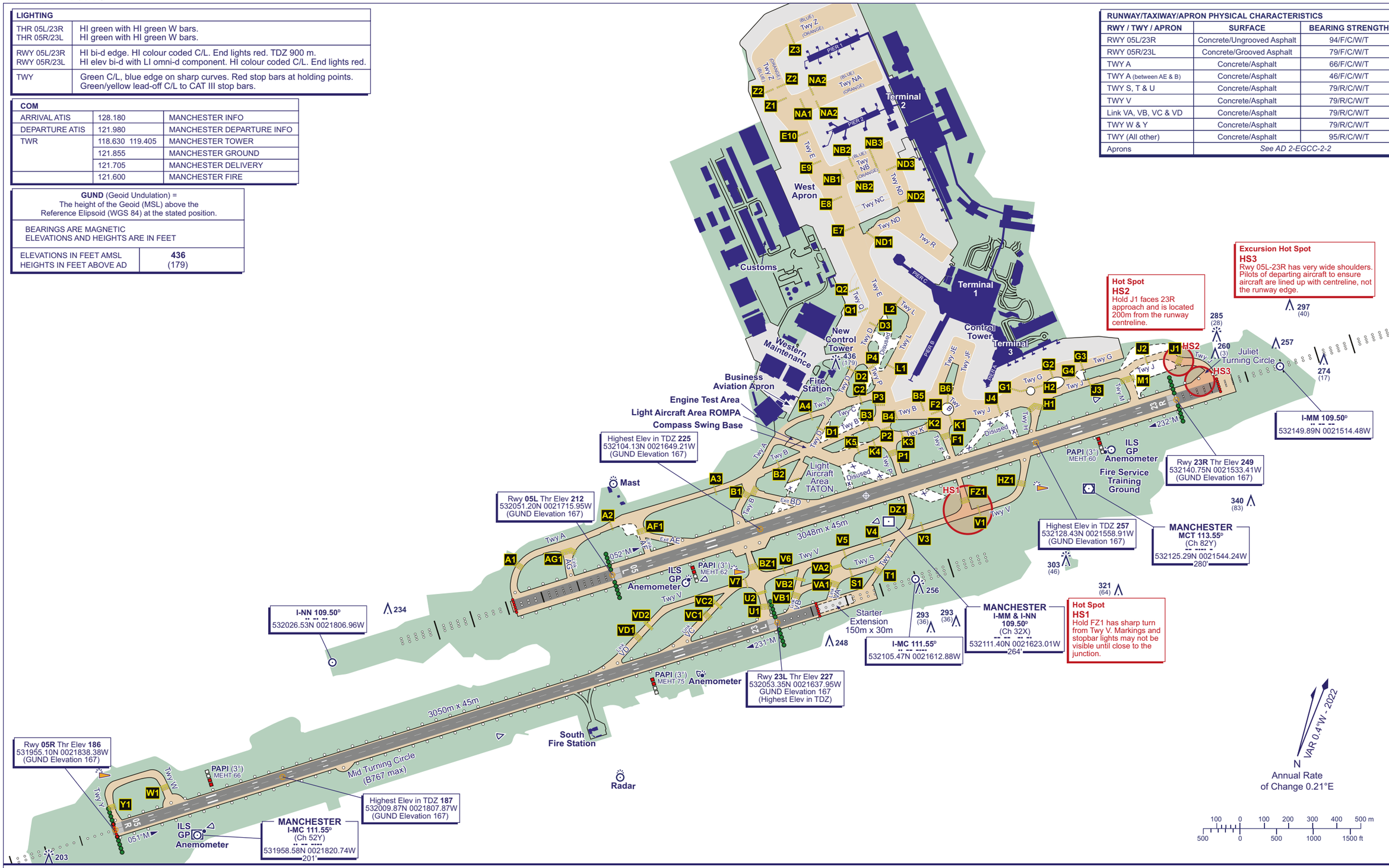
COM		
ARRIVAL ATIS	128.180	MANCHESTER INFO
DEPARTURE ATIS	121.980	MANCHESTER DEPARTURE INFO
TWR	118.630 119.405	MANCHESTER TOWER
	121.855	MANCHESTER GROUND
	121.705	MANCHESTER DELIVERY
	121.600	MANCHESTER FIRE

GUND (Geoid Undulation) =
The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	**436**
HEIGHTS IN FEET ABOVE AD	(179)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	**SURFACE**	**BEARING STRENGTH**
RWY 05L/23R	Concrete/Ungrooved Asphalt	94/F/C/W/T
RWY 05R/23L	Concrete/Grooved Asphalt	79/F/C/W/T
TWY A	Concrete/Asphalt	66/F/C/W/T
TWY A (between AE & B)	Concrete/Asphalt	46/F/C/W/T
TWY S, T & U	Concrete/Asphalt	79/R/C/W/T
TWY V	Concrete/Asphalt	79/R/C/W/T
Link VA, VB, VC & VD	Concrete/Asphalt	79/R/C/W/T
TWY W & Y	Concrete/Asphalt	79/R/C/W/T
TWY (All other)	Concrete/Asphalt	95/R/C/W/T
Aprons	*See AD 2-EGCC-2-2*	



CHANGE (11/25): OBSTACLE ADDED.

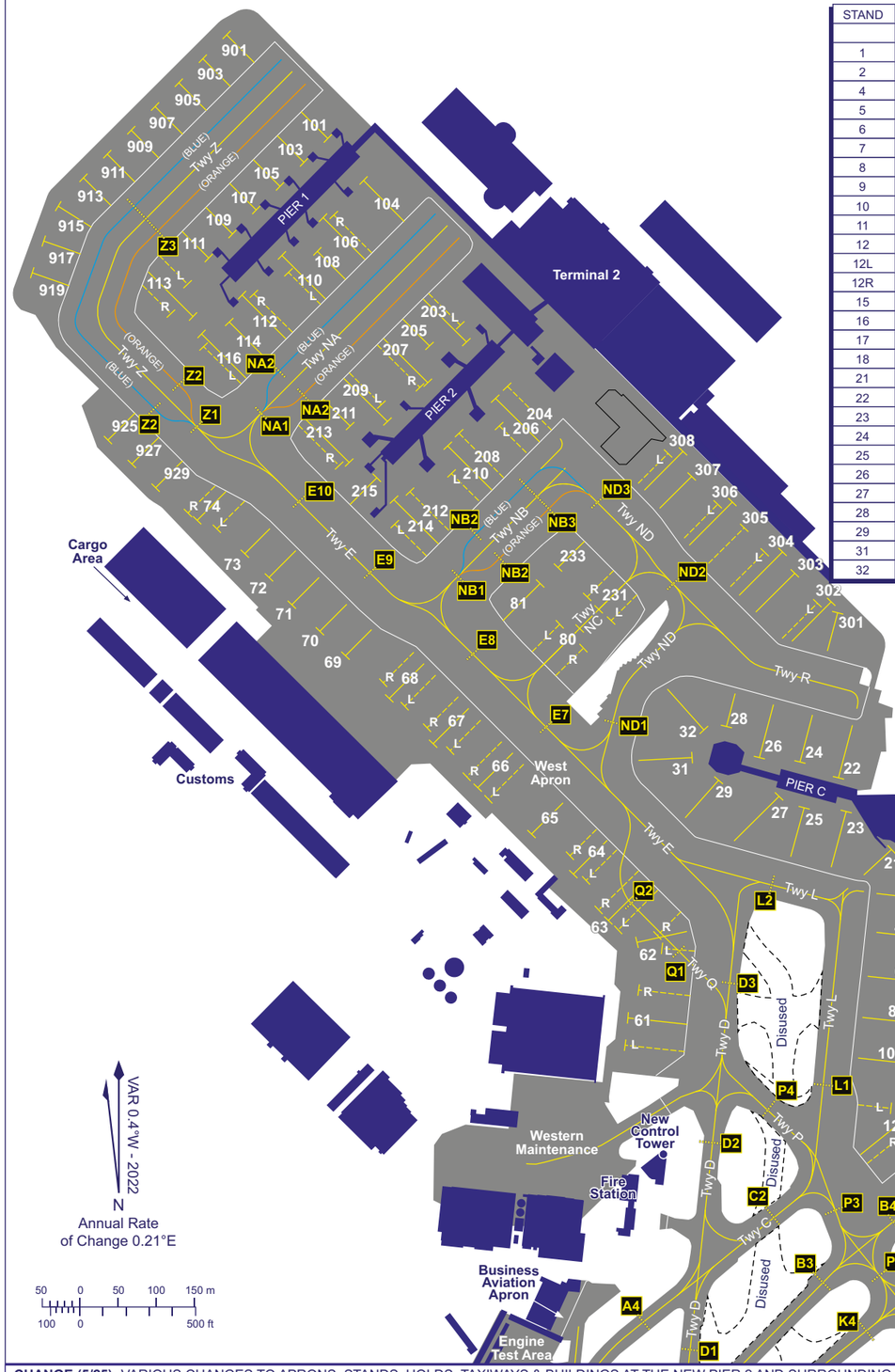
AERO INFO DATE 12 AUG 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

532113N 0021630W

ELEV 257FT

MANCHESTER
EGCC



STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE
	Terminal 1		**Terminal 3**	63L	532137.28N 0021649.93W	925	532157.88N 0021726.05W	209L	To be surveyed		**Terminal 2 Remote**
1	532138.99N 0021626.69W	41	532137.98N 0021615.96W	63R	532138.15N 0021651.35W	927	532156.87N 0021724.36W	210	To be surveyed	231	532150.82N 0021651.40W
2	532138.77N 0021629.90W	42	532136.08N 0021615.36W	64	532139.65N 0021653.13W	929	532155.87N 0021722.67W	210L	To be surveyed	231L	532150.34N 0021650.49W
4	532137.08N 0021629.40W	43	532134.20N 0021615.58W	64L	532139.36N 0021652.20W			211	To be surveyed	231R	532151.33N 0021652.19W
5	532136.78N 0021627.03W	44	532133.06N 0021614.93W	64R	532140.39N 0021653.34W		**Terminal 2**	212	To be surveyed	233	To be surveyed
6	532135.22N 0021629.55W	44L	532133.13N 0021615.66W	65	532141.31N 0021656.08W	101	532210.66N 0021710.66W	213	To be surveyed	113L	532204.46N 0021720.47W
7	532135.40N 0021627.33W	44R	532132.23N 0021615.36W	66	532143.26N 0021659.87W	103	532209.65N 0021712.33W	213R	To be surveyed	113	532203.09N 0021720.09W
8	532133.47N 0021629.97W	47	532132.64N 0021613.78W	66L	532142.79N 0021659.08W	104	532208.87N 0021708.10W	214	To be surveyed	113R	532203.22N 0021721.66W
9	532133.78N 0021627.52W	48	532133.43N 0021612.85W	66R	532143.72N 0021700.65W	105	532208.64N 0021714.01W	214L	To be surveyed	114	532202.85N 0021717.46W
10	532131.72N 0021630.09W	49	532135.44N 0021612.59W	67	532145.12N 0021703.02W	106	532207.32N 0021710.97W	215	To be surveyed	116L	532201.84N 0021719.31W
11	532132.27N 0021627.87W	50	532136.78N 0021610.08W	67L	532144.86N 0021701.88W	106R	532207.39N 0021710.20W	301	532150.71N 0021634.59W	116	532202.36N 0021719.45W
12	532129.59N 0021629.08W	51	532137.76N 0021608.63W	67R	532145.81N 0021703.44W	107	532207.63N 0021715.68W	302	532151.17N 0021635.06W	901	532214.99N 0021717.84W
12L	532129.79N 0021630.64W	52	532138.74N 0021607.10W	68	532146.99N 0021706.17W	108	532205.87N 0021711.31W	302L	532151.11N 0021636.03W	903	532213.98N 0021719.52W
12R	532128.94N 0021629.23W	53	532139.73N 0021605.50W	68L	532146.73N 0021705.04W	109	532206.61N 0021717.36W	303	532152.37N 0021637.63W	905	532212.97N 0021721.19W
15	532130.43N 0021627.61W	54	532140.79N 0021603.76W	68R	532147.67N 0021706.60W	110	532205.70N 0021713.85W	304	532153.27N 0021638.50W	907	532211.96N 0021722.87W
16	532139.50N 0021623.00W	55	532142.19N 0021601.15W	69	532148.80N 0021709.21W	110L	532204.98N 0021713.36W	304L	532153.25N 0021639.75W	909	532210.95N 0021724.54W
17	532139.53N 0021620.77W	55L	532141.60N 0021601.18W	70	532149.83N 0021711.06W	111	532205.60N 0021719.03W	305	To be surveyed	911	532209.93N 0021726.22W
18	532139.19N 0021617.87W	55R	532142.36N 0021559.30W	71	532150.94N 0021713.00W	112	532204.02N 0021716.64W	306	532155.36N 0021642.03W	913	532208.92N 0021727.89W
21	532140.73N 0021630.74W	57	532142.99N 0021555.38W	72	532152.10N 0021714.64W	112R	532204.06N 0021715.81W	306L	532155.27N 0021643.04W	915	532207.73N 0021729.65W
22	532143.79N 0021634.48W	58	532143.88N 0021553.53W	73	532153.10N 0021716.34W	203	To be surveyed	307	532156.42N 0021644.86W	917	532206.25N 0021730.65W
23	532142.33N 0021633.89W			74	532154.57N 0021719.71W	203L	To be surveyed	308	532157.47N 0021645.56W	919	532204.91N 0021731.45W
24	532144.39N 0021637.18W		**West Apron**	74L	532154.02N 0021718.57W	204	To be surveyed	308L	532157.40N 0021646.61W		
25	532142.49N 0021636.90W	61	532133.60N 0021649.21W	74R	532154.98N 0021720.19W	205	To be surveyed				
26	532144.56N 0021640.07W	61L	532132.45N 0021649.43W	80	To be surveyed	206	To be surveyed				
27	532142.96N 0021638.59W	61R	532134.77N 0021648.47W	80L	532150.16N 0021654.14W	206L	To be surveyed				
28	532145.81N 0021642.44W	62	532136.72N 0021648.56W	80R	532149.16N 0021652.46W	207	To be surveyed				
29	532143.66N 0021642.89W	62L	532136.51N 0021646.80W	81	To be surveyed	207R	To be surveyed				
31	532144.59N 0021644.56W	62R	532137.04N 0021647.28W			208	To be surveyed				
32	532145.59N 0021643.76W	63	532137.71N 0021650.63W			209	To be surveyed				

Hot Spot
HS2
Hold J1 faces 23R approach and is located 200m from the runway centreline.

Excursion Hot Spot
HS3
Rwy 05L-23R has very wide shoulders. Pilots of departing aircraft to ensure aircraft are lined up with centreline, not the runway edge.

COM		
ARRIVAL ATIS	128.180	MANCHESTER INFO
DEPARTURE ATIS	121.980	MANCHESTER DEPARTURE INFO
TWR	118.630 119.405	MANCHESTER TOWER
	121.855	MANCHESTER GROUND
	121.705	MANCHESTER DELIVERY
	121.600	MANCHESTER FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
Apron	Concrete	56/R/C/W/T	-
Apron	Concrete	97/R/B/W/T	-
RWY (All)	*See AD 2-EGCC-2-1*		
TWY (All)			

CHANGE (5/25): VARIOUS CHANGES TO APRONS, STANDS, HOLDS, TAXIWAYS & BUILDINGS AT THE NEW PIER 2 AND SURROUNDING AREA. EDITORIAL.

AERO INFO DATE 06 MAR 25

AERODROME CHART
A380 GROUND MOVEMENT - ICAO

532113N 0021630W

ELEV 257FT

MANCHESTER
EGCC

A380 Ground Movement
Aprons
Operational Taxiways

100 0 100 200 300 400 500 m
500 0 500 1000 1500 ft

N
VAR 0.4°W - 2022
Annual Rate of Change 0.21°E

Terminal 1
Terminal 3
Control Tower
New Control Tower
Western Maintenance
Fire Station
Business Aviation Apron
Engine Test Area
Light Aircraft Area ROMPA
Compass Swing Base
Light Aircraft Area TATON
Fire Service Training Ground
South Fire Station
Mid Turning Circle (B767 max)
Juliet Turning Circle (A380 max)

Excursion Hot Spot
HS3
Rwy 05L-23R has very wide shoulders. Pilots of departing aircraft to ensure aircraft are lined up with centreline, not the runway edge.

Hot Spot
HS2
Hold J1 faces 23R approach and is located 200m from the runway centreline.

Hot Spot
HS1
Hold FZ1 has sharp turn from Twy V. Markings and stopbar lights may not be visible until close to the junction.

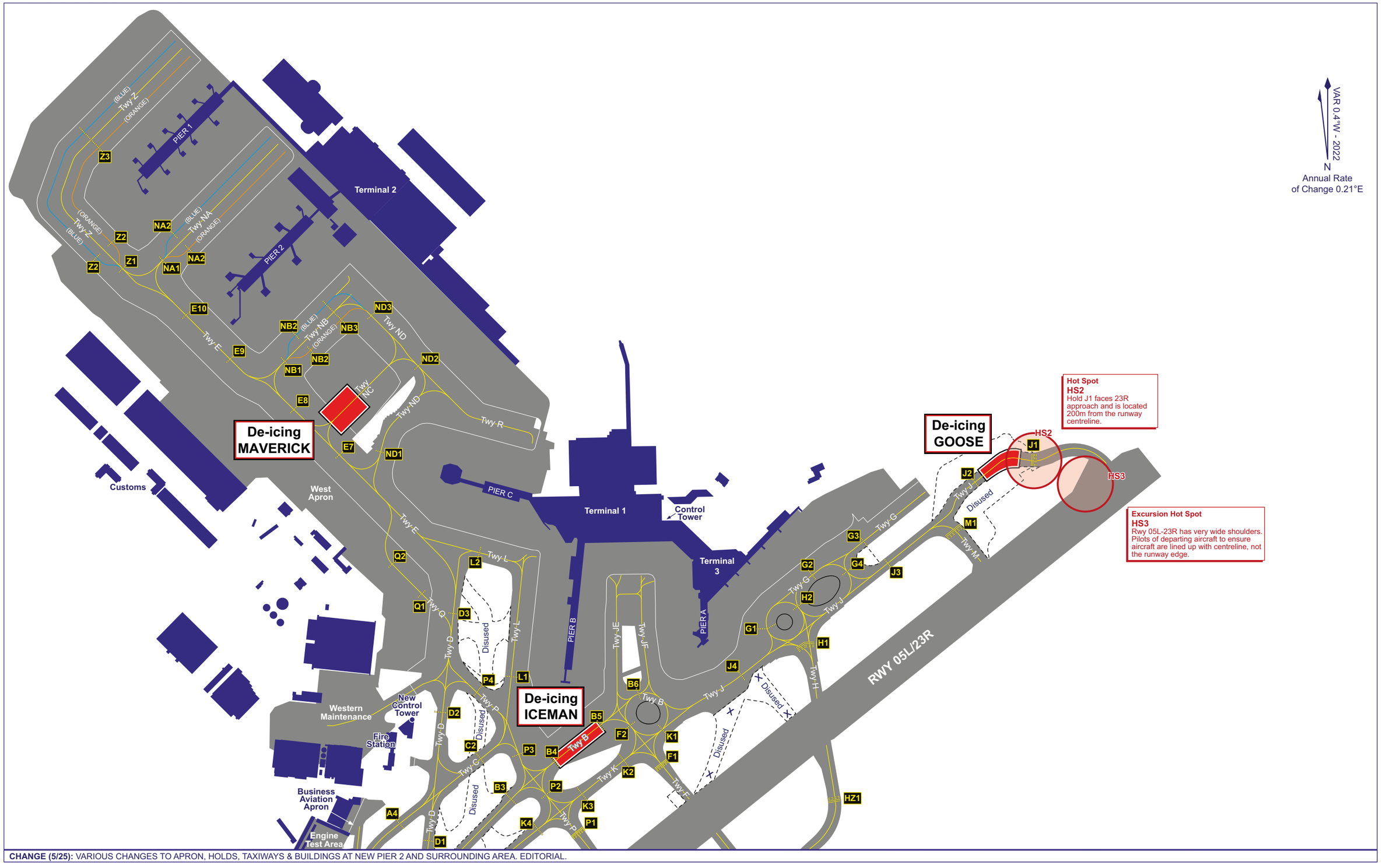
CHANGE (10/25): HOLD AF1 & LINKS AF & AE EDITORIAL.

AIRCRAFT GROUND MOVEMENT - REMOTE DE-ICING AREAS LOCATION CHART - ICAO

532113N 0021630W

ELEV 257FT

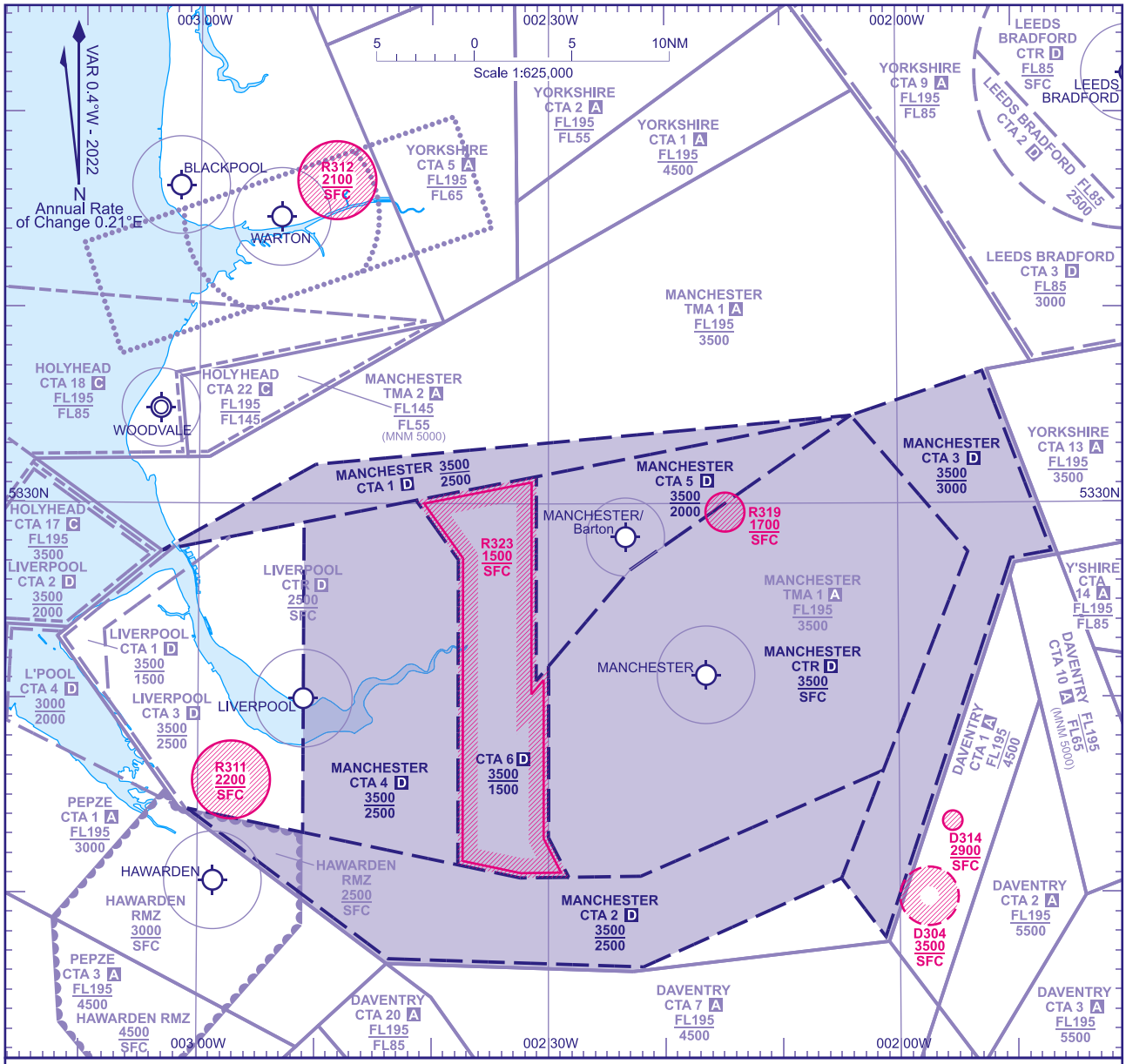
MANCHESTER
EGCC



CHANGE (5/25): VARIOUS CHANGES TO APRON, HOLDS, TAXIWAYS & BUILDINGS AT NEW PIER 2 AND SURROUNDING AREA. EDITORIAL.

AERO INFO DATE 03 MAR 25

CONTROL ZONE AND CONTROL AREA — MANCHESTER



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

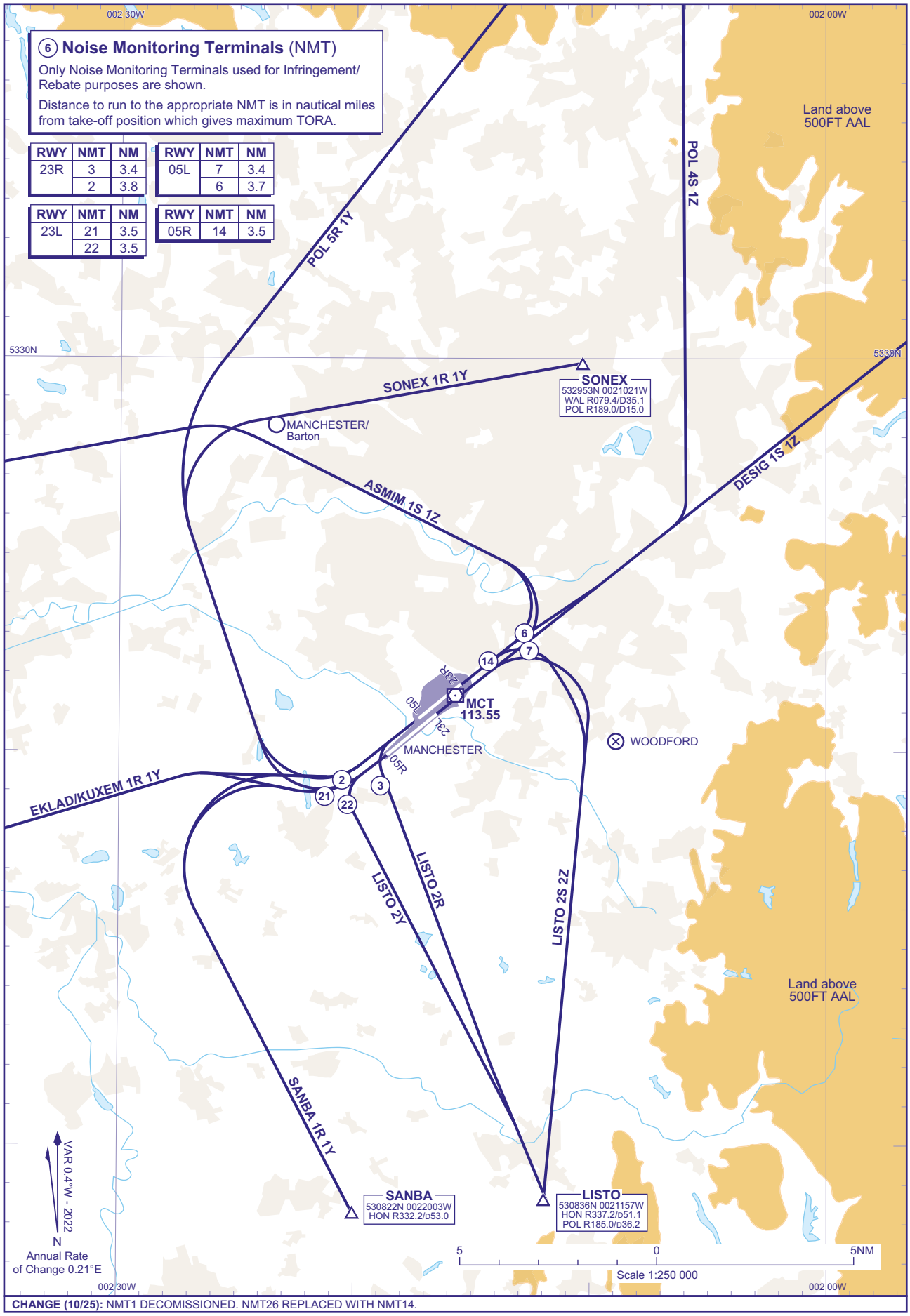
LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

CHANGE (2/25): R323 ADDED. MANCHESTER CTR UPDATED & CTA 6 ADDED.

AERO INFO DATE 09 DEC 24

AD 2-EGCC-3-1

NOISE PREFERENTIAL ROUTEINGS — MANCHESTER

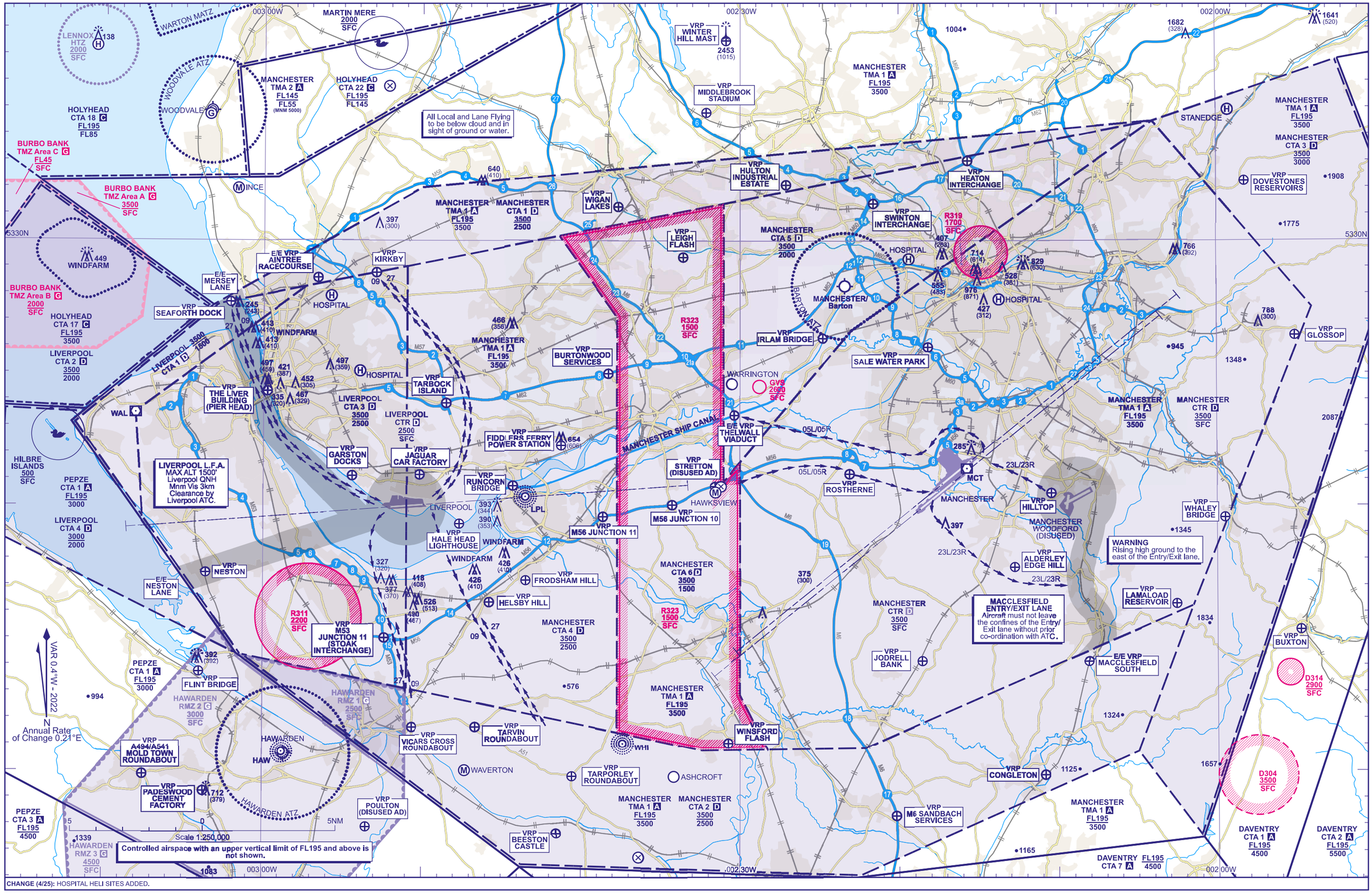


CHANGE (10/25): NMT1 DECOMISSIONED. NMT26 REPLACED WITH NMT14.

AERO INFO DATE 02 JUL 25

CONTROL ZONE AND CONTROL AREA CHART - ENTRY/EXIT LANES AND VRPs

MANCHESTER



CHANGE (4/25): HOSPITAL HELI SITES ADDED.

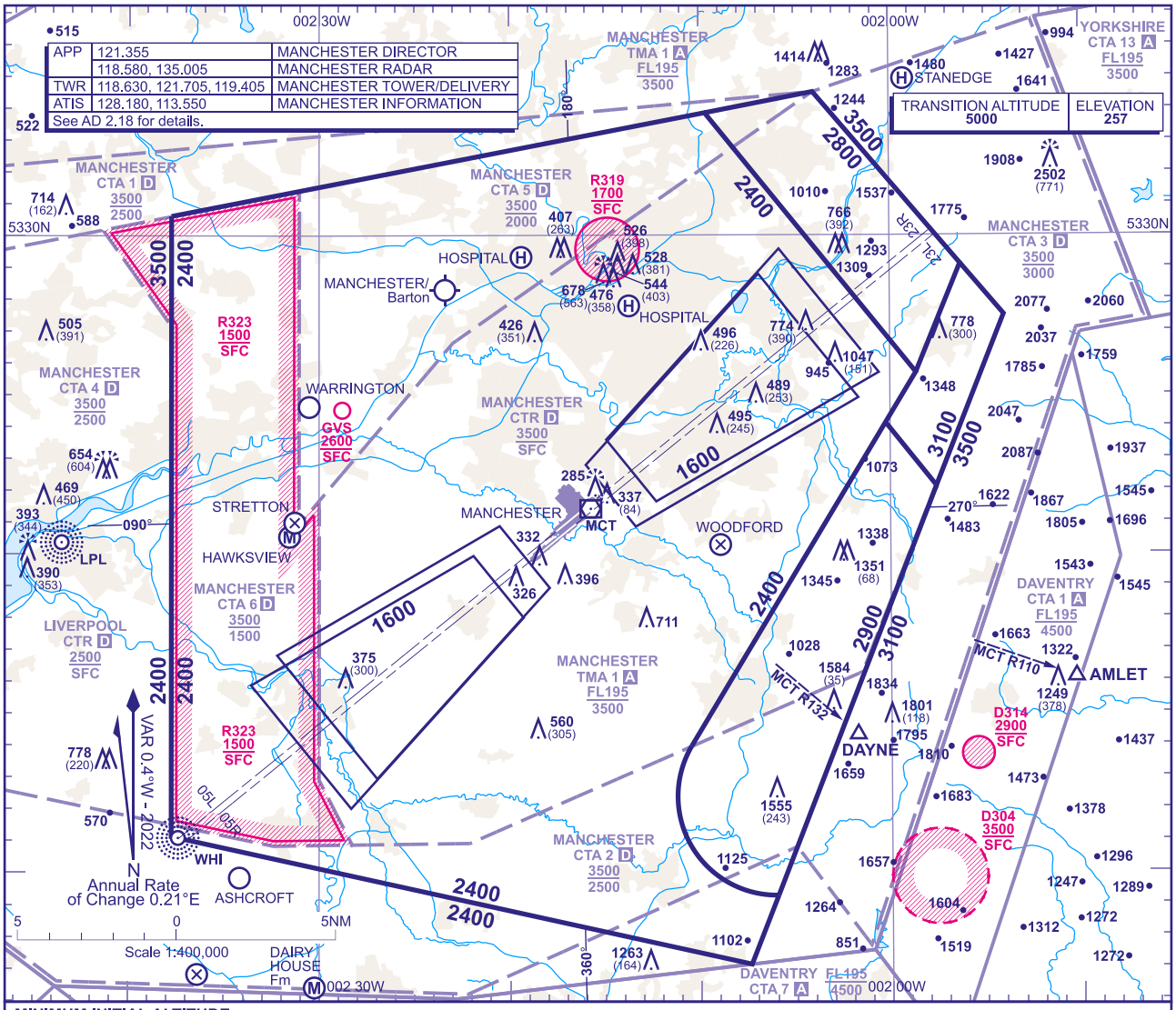
AERO INFO DATE 29 JAN 25

INTENTIONALLY BLANK

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 2502
HEIGHTS IN FEET AGL (771)

MANCHESTER



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2400** in the sector defined by the lateral limits; 533037N 0023746W - 533351N 0020941W - 532541N 0015838W - 531358N 0021029W - thence anti-clockwise by an arc of a circle radius 3.1NM centred on 531222N 0020603W to 530916N 0020558W - 530706N 0020723W - 531108N 0023744W - 533037N 0023746W.

b) **2800** in the sector defined by the lateral limits; 533351N 0020941W - 533430N 0020400W - 532906N 0015617W - 532541N 0015838W - 533351N 0020941W.

c) **2900** in the sector defined by the lateral limits; 532406N 0020014W - 532207N 0015735W - 530916N 0020558W thence clockwise by an arc of a circle radius 3.1NM centred on 531222N 0020603W to 531358N 0021029W - 532406N 0020014W.

d) **3100** in the sector defined by the lateral limits; 532406N 0020014W - 532541N 0015838W - 532906N 0015617W - 532730N 0015400W - 532207N 0015735W - 532406N 0020014W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **FL60**, or last assigned level if higher, to **DAYNE** hold via **AMLET** or **ROSUN** hold via **BURNI**, as appropriate to the final approach chart†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **DAYNE** hold via **AMLET** or **ROSUN** hold via **BURNI**, as appropriate to the final approach chart†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of Instrument approaches other than SRA is cleared to intercept the final approach track.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 29 JAN 25

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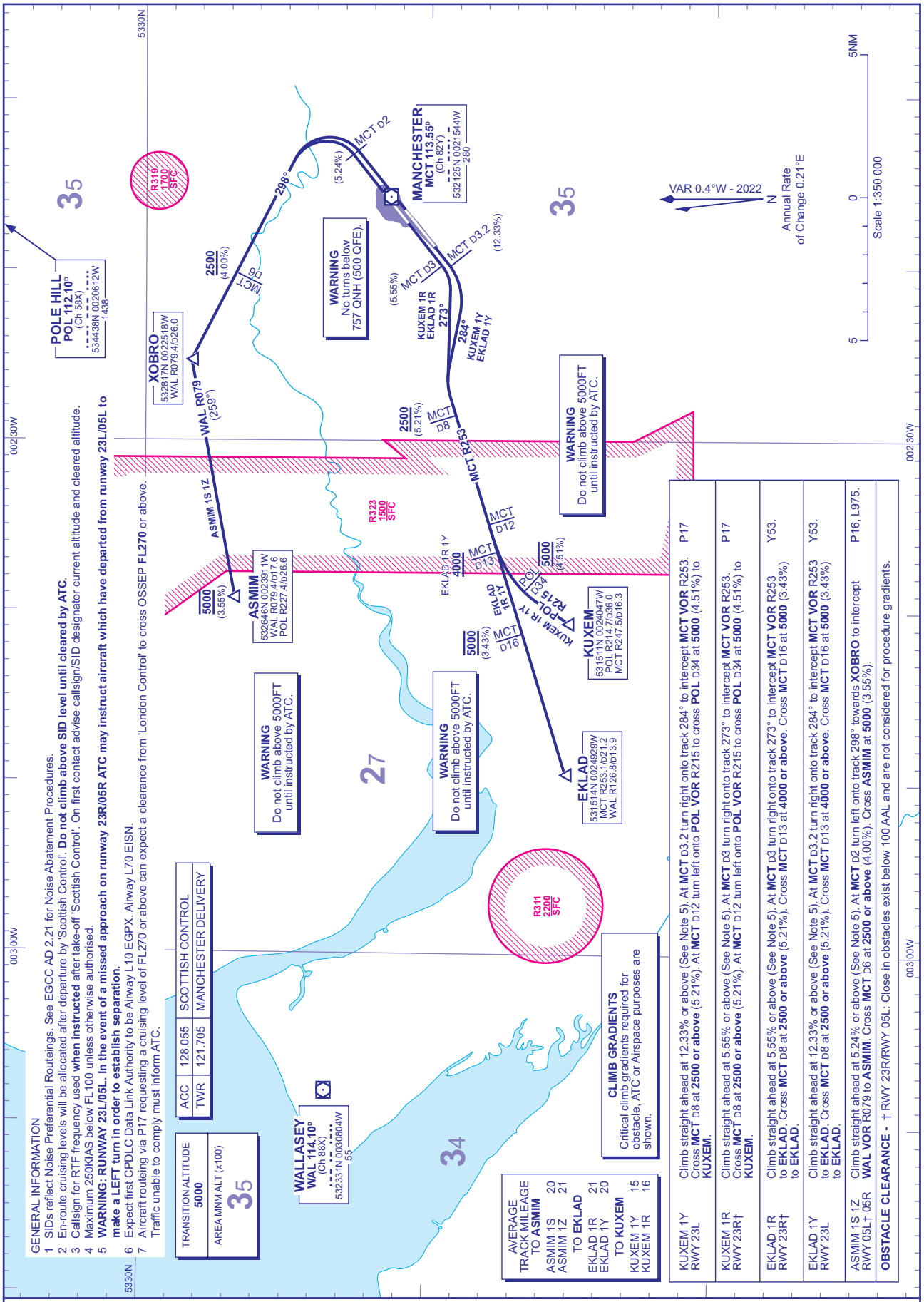
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER
ASMIM 1S 1Z/KUXEM 1R 1Y/EKLAD 1R 1Y



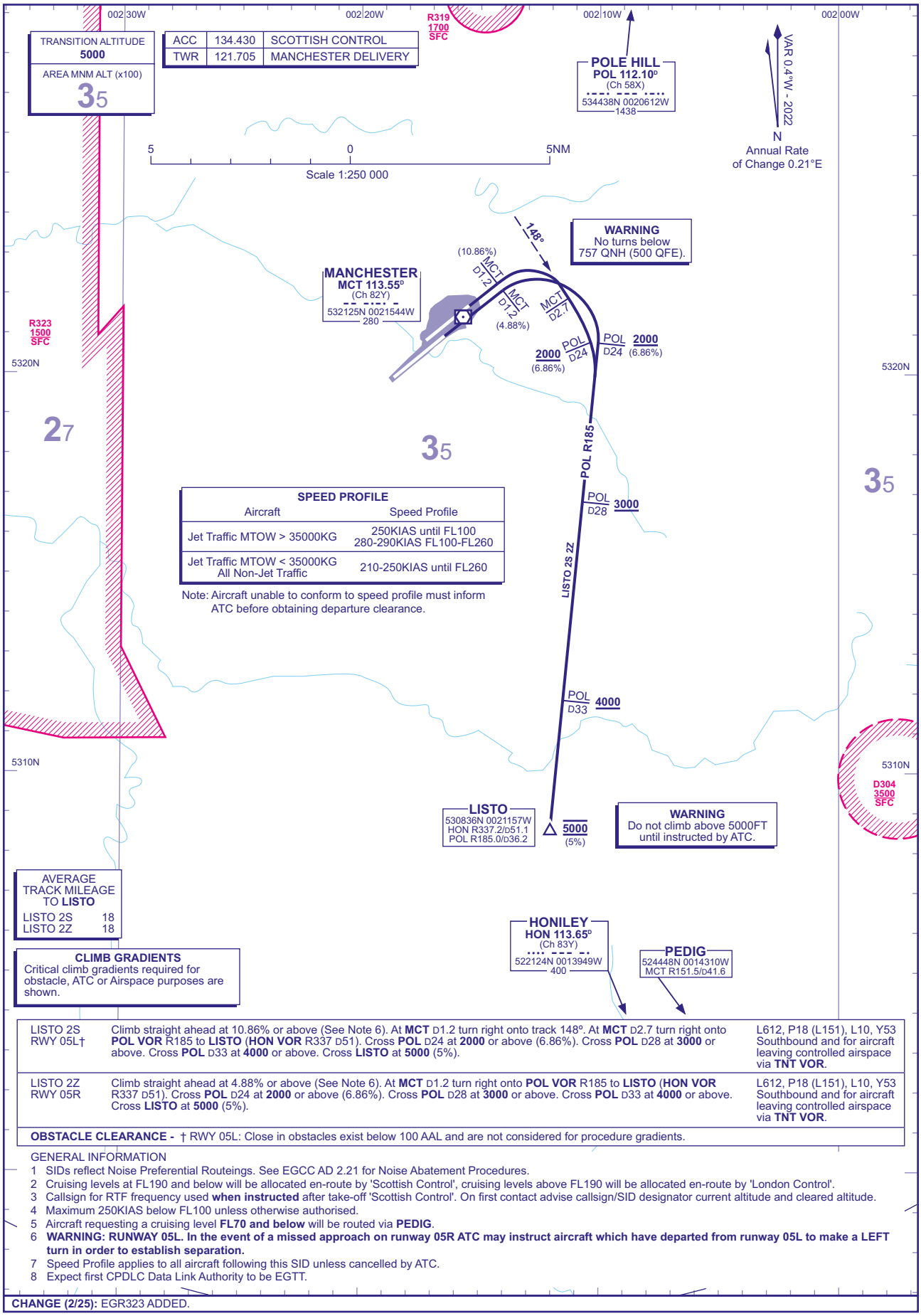
CHANGE (2/25): EGR323 ADDED.

AERO INFO DATE 26 NOV 24

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER LISTO 2S 2Z



LISTO 2S RWY 05L†	Climb straight ahead at 10.86% or above (See Note 6). At **MCT** D1.2 turn right onto track 148°. At **MCT** D2.7 turn right onto **POL VOR** R185 to **LISTO** (**HON VOR** R337 D51). Cross **POL** D24 at **2000** or above (6.86%). Cross **POL** D28 at **3000** or above. Cross **POL** D33 at **4000** or above. Cross **LISTO** at **5000** (5%).	L612, P18 (L151), L10, Y53 Southbound and for aircraft leaving controlled airspace via **TNT VOR**.
LISTO 2Z RWY 05R	Climb straight ahead at 4.88% or above (See Note 6). At **MCT** D1.2 turn right onto **POL VOR** R185 to **LISTO** (**HON VOR** R337 D51). Cross **POL** D24 at **2000** or above (6.86%). Cross **POL** D28 at **3000** or above. Cross **POL** D33 at **4000** or above. Cross **LISTO** at **5000** (5%).	L612, P18 (L151), L10, Y53 Southbound and for aircraft leaving controlled airspace via **TNT VOR**.

OBSTACLE CLEARANCE - † RWY 05L: Close in obstacles exist below 100 AAL and are not considered for procedure gradients.

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGCC AD 2.21 for Noise Abatement Procedures.
2 Cruising levels at FL190 and below will be allocated en-route by 'Scottish Control', cruising levels above FL190 will be allocated en-route by 'London Control'.
3 Callsign for RTF frequency used **when instructed** after take-off 'Scottish Control'. On first contact advise callsign/SID designator current altitude and cleared altitude.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 Aircraft requesting a cruising level **FL70 and below** will be routed via **PEDIG**.
6 **WARNING: RUNWAY 05L. In the event of a missed approach on runway 05R ATC may instruct aircraft which have departed from runway 05L to make a LEFT turn in order to establish separation.**
7 Speed Profile applies to all aircraft following this SID unless cancelled by ATC.
8 Expect first CPDLC Data Link Authority to be EGTT.

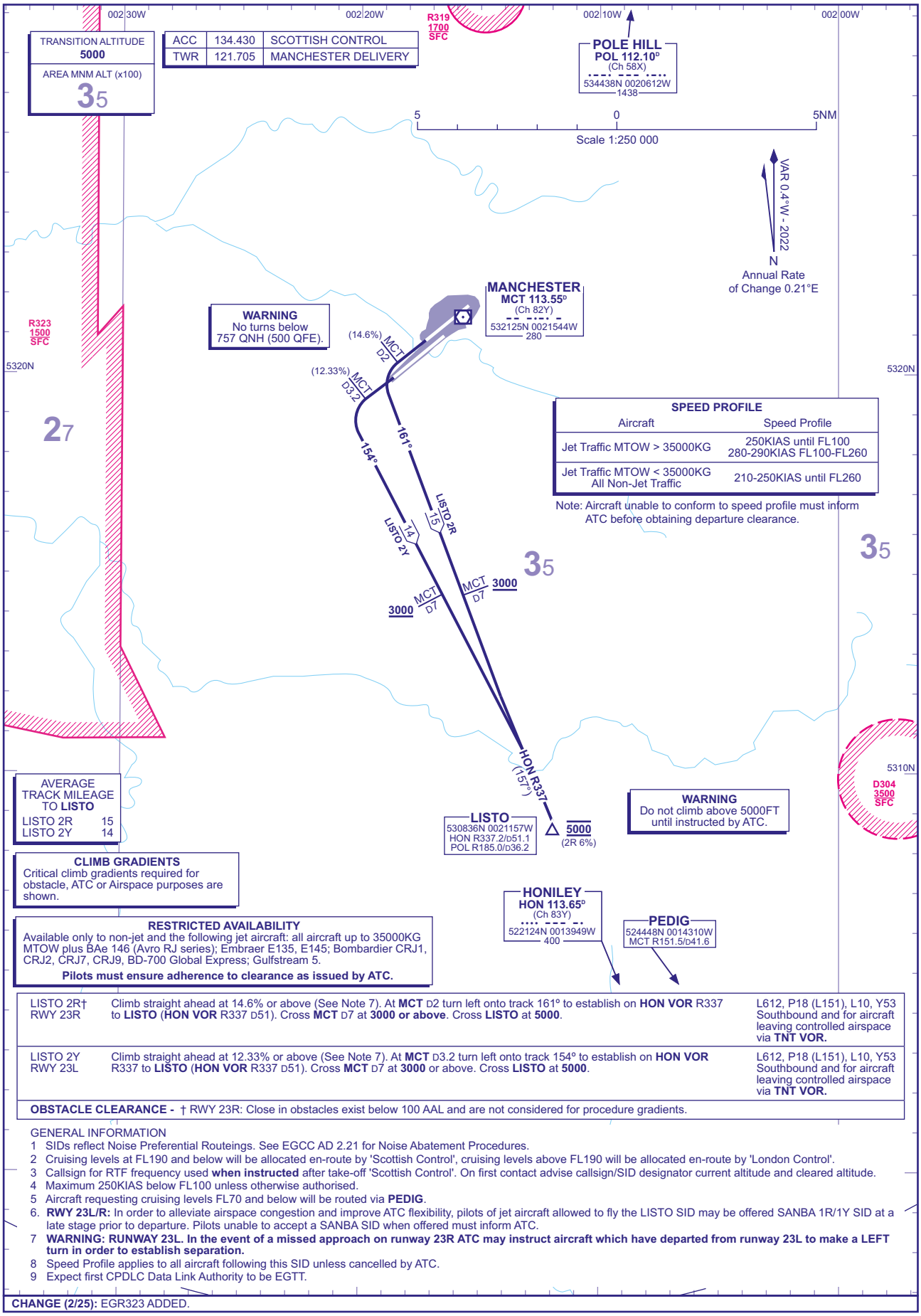
CHANGE (2/25): EGR323 ADDED.

AERO INFO DATE 26 NOV 24
AD 2-EGCC-6-2

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER
(RESTRICTED USE) LISTO 2R 2Y



LISTO 2R† RWY 23R	Climb straight ahead at 14.6% or above (See Note 7). At **MCT** D2 turn left onto track 161° to establish on **HON VOR** R337 to **LISTO** (**HON VOR** R337 D51). Cross **MCT** D7 at **3000 or above**. Cross **LISTO** at **5000**.	L612, P18 (L151), L10, Y53 Southbound and for aircraft leaving controlled airspace via **TNT VOR.**
LISTO 2Y RWY 23L	Climb straight ahead at 12.33% or above (See Note 7). At **MCT** D3.2 turn left onto track 154° to establish on **HON VOR** R337 to **LISTO** (**HON VOR** R337 D51). Cross **MCT** D7 at **3000** or above. Cross **LISTO** at **5000**.	L612, P18 (L151), L10, Y53 Southbound and for aircraft leaving controlled airspace via **TNT VOR.**

OBSTACLE CLEARANCE - † RWY 23R: Close in obstacles exist below 100 AAL and are not considered for procedure gradients.

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGCC AD 2.21 for Noise Abatement Procedures.
2 Cruising levels at FL190 and below will be allocated en-route by 'Scottish Control', cruising levels above FL190 will be allocated en-route by 'London Control'.
3 Callsign for RTF frequency used **when instructed** after take-off 'Scottish Control'. On first contact advise callsign/SID designator current altitude and cleared altitude.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 Aircraft requesting cruising levels FL70 and below will be routed via **PEDIG**.
6. **RWY 23L/R:** In order to alleviate airspace congestion and improve ATC flexibility, pilots of jet aircraft allowed to fly the LISTO SID may be offered SANBA 1R/1Y SID at a late stage prior to departure. Pilots unable to accept a SANBA SID when offered must inform ATC.
7 **WARNING: RUNWAY 23L. In the event of a missed approach on runway 23R ATC may instruct aircraft which have departed from runway 23L to make a LEFT turn in order to establish separation.**
8 Speed Profile applies to all aircraft following this SID unless cancelled by ATC.
9 Expect first CPDLC Data Link Authority to be EGTT.

CHANGE (2/25): EGR323 ADDED.

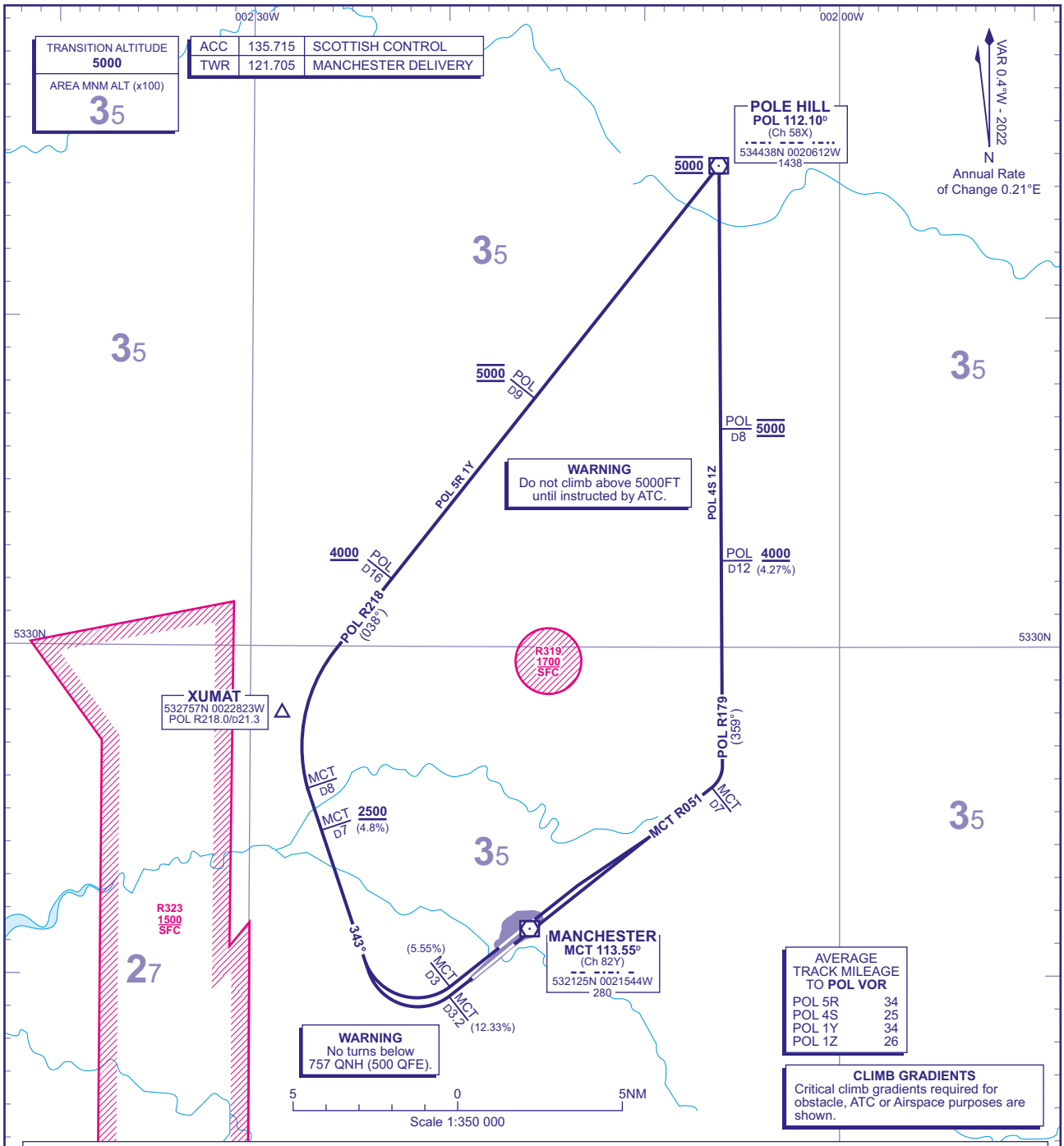
AERO INFO DATE 27 NOV 24

AD 2-EGCC-6-3

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER
POL 5R 4S 1Y 1Z



POL 5R RWY 23R†	Climb straight ahead at 5.55% or above (See Note 5). At **MCT** D3 turn right onto track 343° towards **XUMAT**. Cross **MCT** D7 at **2500 or above** (4.8%). At **MCT** D8 turn right to intercept **POL VOR** R218 (038°) to **POL VOR**. Cross **POL** D16 at **4000 or above**. Cross **POL** D9 at **5000**. Cross **POL VOR** at **5000**.	N57, N601, P18, P17/UP17 Northbound and for aircraft leaving controlled airspace.
POL 1Y RWY 23L	Climb straight ahead at 12.33% or above (See Note 5). At **MCT** D3.2 turn right onto track 343° towards **XUMAT**. Cross **MCT** D7 at **2500 or above** (4.8%). At **MCT** D8 turn right to intercept **POL VOR** R218 (038°) to **POL VOR**. Cross **POL** D16 at **4000 or above**. Cross **POL** D9 at **5000**. Cross **POL VOR** at **5000**.	N57, N601, P18, P17/UP17 Northbound and for aircraft leaving controlled airspace.
POL 4S RWY 05L†	Climb straight ahead. At not below **757** ALT (**500** AAL), but not before DER, adjust track onto **MCT VOR** R051 (See Note 5). At **MCT** D7 turn left to intercept **POL VOR** R179 (359°) to **POL VOR**. Cross **POL** D12 at **4000 or above** (4.27%). Cross **POL** D8 at **5000**. Cross **POL VOR** at **5000**.	N57, N601, P18, P17/UP17 Northbound and for aircraft leaving controlled airspace.
POL 1Z RWY 05R	Climb straight ahead on **MCT VOR** R051 (See Note 5). At **MCT** D7 turn left to intercept **POL VOR** R179 (359°) to **POL VOR**. Cross **POL** D12 at **4000 or above**. Cross **POL** D8 at **5000**. Cross **POL VOR** at **5000**.	N57, N601, P18, P17/UP17 Northbound and for aircraft leaving controlled airspace.
OBSTACLE CLEARANCE - † RWY 23R/RWY 05L: Close in obstacles exist below 100 AAL and are not considered for procedure gradients.		

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGCC AD 2.21 for Noise Abatement Procedures.
2 En-route cruising levels will be allocated after departure by 'Scottish Control'. **Do not climb above SID level until cleared by ATC.**.
3 Callsign for RTF frequency used **when instructed** after take-off 'Scottish Control'. On first contact advise callsign/SID designator current altitude and cleared altitude.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 **WARNING: RUNWAY 23L/05L. In the event of a missed approach on runway 23R/05R ATC may instruct aircraft which have departed from runway 23L/05L to make a LEFT turn in order to establish separation.**
6 Expect first CPDLC Data Link Authority to be EGPX.

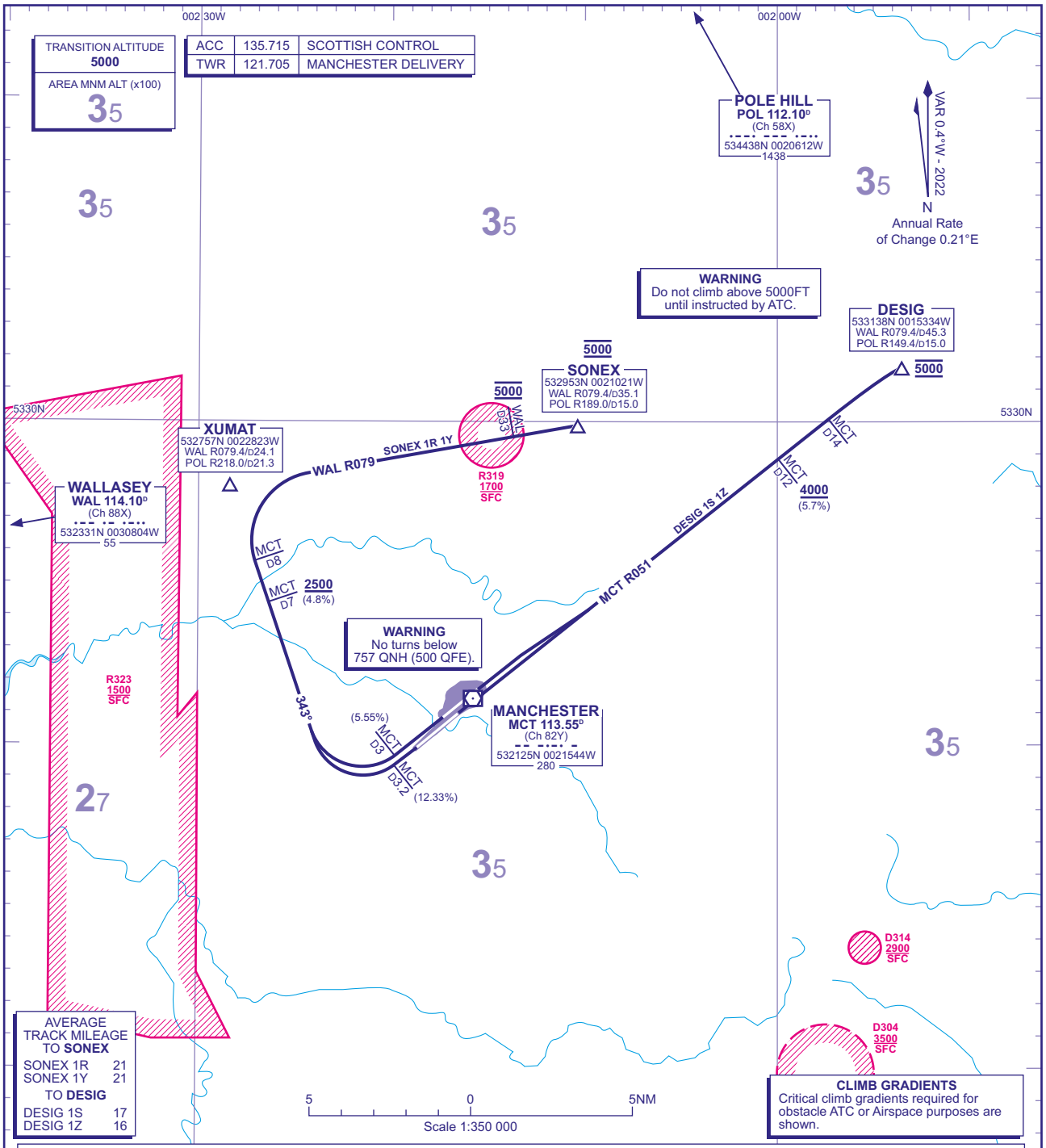
CHANGE (2/25): EGR323 ADDED.

AERO INFO DATE 27 NOV 24

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER
SONEX 1R 1Y/DESIG 1S 1Z



SONEX 1R RWY 23R†	Climb straight ahead at 5.55% or above (See Note 5). At **MCT** D3 turn right onto track 343° towards **XUMAT**. Cross **MCT** D7 at **2500 or above** (4.8%). At **MCT** D8 turn right onto **WAL VOR** R079 to **SONEX**. Cross **WAL** D33 at **5000**. Cross **SONEX** at **5000**.	L975.
SONEX 1Y RWY 23L	Climb straight ahead at 12.33% or above (See Note 5). At **MCT** D3.2 turn right onto track 343° towards **XUMAT**. Cross **MCT** D7 at **2500 or above** (4.8%). At **MCT** D8 turn right onto **WAL VOR** R079 to **SONEX**. Cross **WAL** D33 at **5000**. Cross **SONEX** at **5000**.	L975.
DESIG 1S RWY 05L†	Climb straight ahead. At **not below 757** ALT (**500** AAL), but not before DER, adjust track onto **MCT VOR** R051 (See Note 5). Cross **MCT** D12 at **4000 or above** (5.7%). At **MCT** D14 turn right to intercept **WAL VOR** R079 to **DESIG**. Cross **DESIG** at **5000**.	L603.
DESIG 1Z RWY 05R	Climb straight ahead on **MCT VOR** R051 (See Note 5). Cross **MCT** D12 at **4000 or above** (5.7%). At **MCT** D14 turn right to intercept **WAL VOR** R079 to **DESIG**. Cross **DESIG** at **5000**.	L603.
OBSTACLE CLEARANCE - † RWY 23R/RWY 05L: Close in obstacles exist below 100 AAL and are not considered for procedure gradients.		

GENERAL INFORMATION

1 SIDs reflect Noise Preferential Routeings. See EGCC AD 2.21 for Noise Abatement Procedures.
2 En-route cruising levels will be allocated after departure by 'Scottish Control'. **Do not climb above SID level until cleared by ATC**.
3 Callsign for RTF frequency used **when instructed** after take-off 'Scottish Control'. On first contact advise callsign/SID designator current altitude and cleared altitude.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 **WARNING: RUNWAY 23L/05L. In the event of a missed approach on runway 23R/05R ATC may instruct aircraft which have departed from runway 23L/05L to make a LEFT turn in order to establish separation.**
6 Expect first CPDLC Data Link Authority to be EGTT.

CHANGE (2/25): EGR323 ADDED.

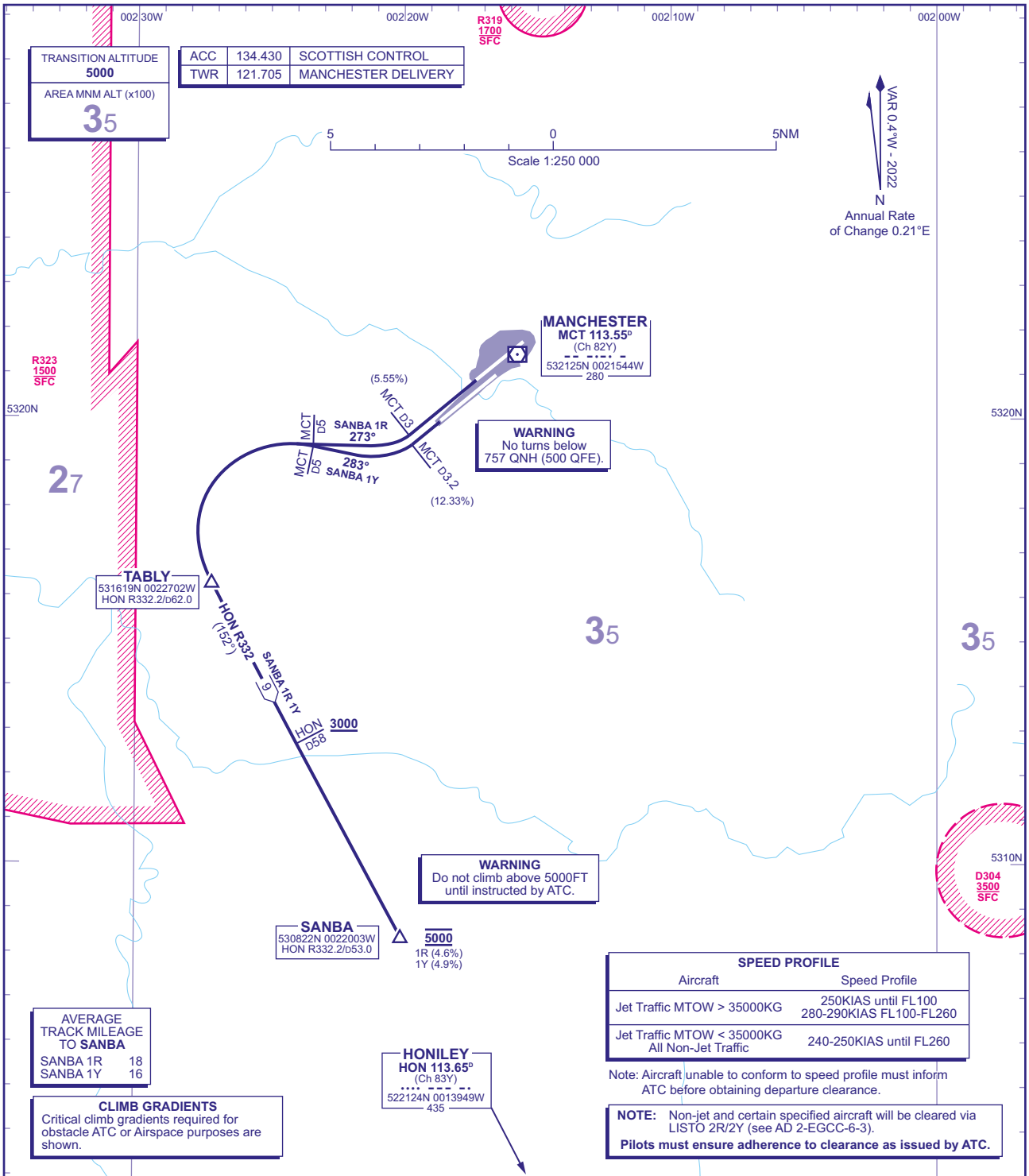
AERO INFO DATE 27 NOV 24

AD 2-EGCC-6-5

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER
(JET AIRCRAFT ONLY) **SANBA 1R 1Y**



SANBA 1R RWY 23R†	Climb straight ahead at 5.55% or above (See Note 5). At **MCT** D3 turn right onto track 273°. At **MCT** D5 turn left to **TABLY** to intercept **HON VOR** R332 to **SANBA**. Cross **HON** D58 (**MCT** D10) at **3000** or above. Cross **SANBA** (**HON** D53) at **5000** (4.6%).	N859
SANBA 1Y RWY 23L	Climb straight ahead at 12.33% or above (See Note 5). At **MCT** D3.2 turn right onto track 283°. At **MCT** D5 turn left to **TABLY** to intercept **HON VOR** R332 to **SANBA**. Cross **HON** D58 (**MCT** D10) at **3000** or above. Cross **SANBA** (**HON** D53) at **5000** (4.9%).	N859
OBSTACLE CLEARANCE - † RWY 23R: Close in obstacles exist below 100' AAL and are not considered for procedure gradients.		

GENERAL INFORMATION
1 SIDs reflect Noise Preferential Routeings. See EGCC AD 2.21 for Noise Abatement Procedures.
2 Cruising levels at FL190 and below will be allocated en-route by 'Scottish Control', cruising levels above FL190 will be allocated en-route by 'London Control'.
3 Callsign for RTF frequency used **when instructed** after take-off 'Scottish Control'. On first contact advise callsign/SID designator current altitude and cleared altitude.
4 Maximum 250KIAS below FL100 unless otherwise authorised.
5 **WARNING: RUNWAY 23L. In the event of a missed approach on runway 23R ATC may instruct aircraft which have departed from runway 23L to make a LEFT turn in order to establish separation.**
6 Speed Profile applies to all aircraft following this SID unless cancelled by ATC.
7 Expect first CPDLC Data Link Authority to be EGTT.

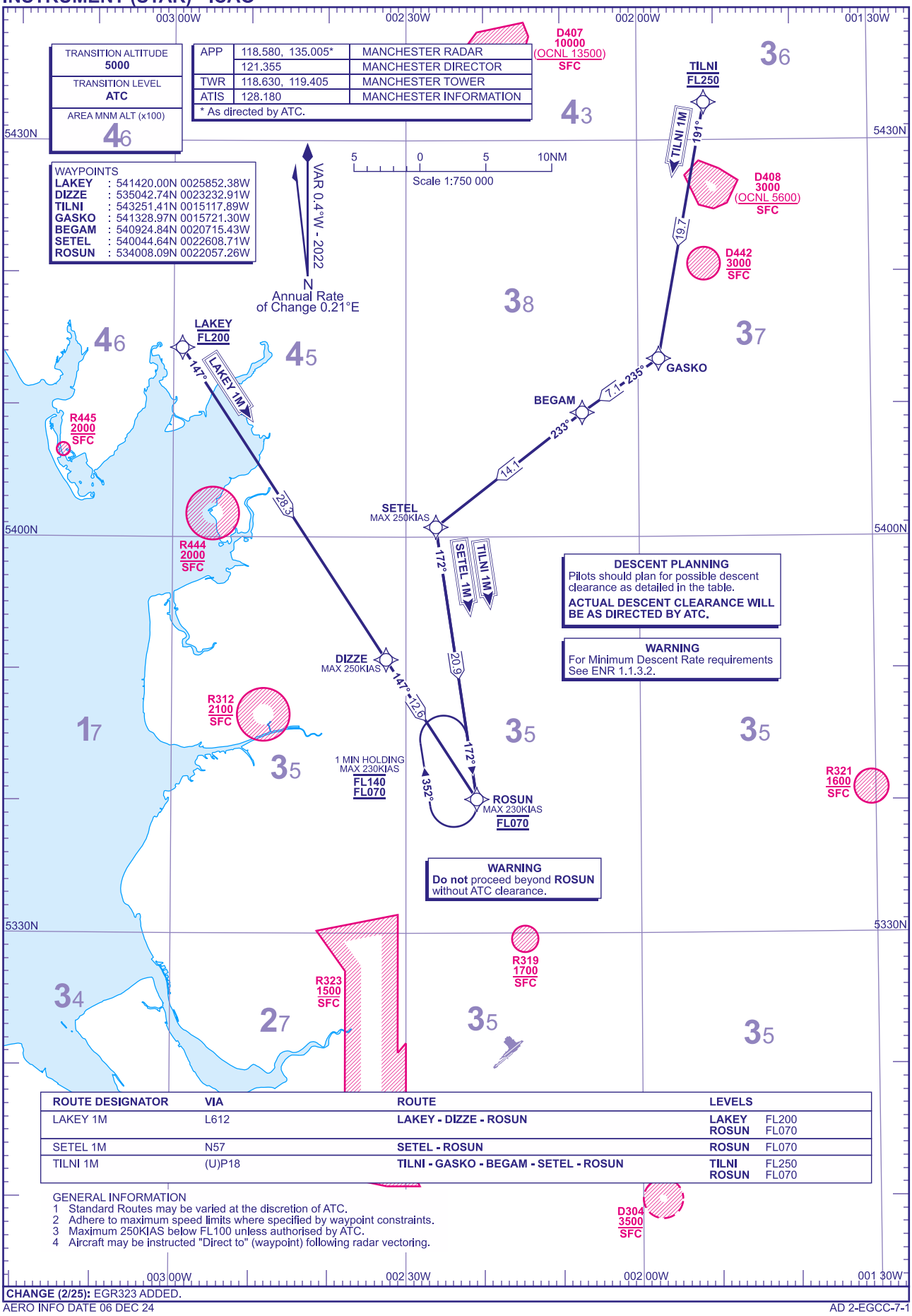
CHANGE (6/25): CHART TITLE.

AERO INFO DATE 19 MAR 25
AD 2-EGCC-6-6

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER LAKEY 1M SETEL 1M TILNI 1M



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
LAKEY 1M	L612	LAKEY - DIZZE - ROSUN	LAKEY FL200 ROSUN FL070
SETEL 1M	N57	SETEL - ROSUN	ROSUN FL070
TILNI 1M	(U)P18	TILNI - GASKO - BEGAM - SETEL - ROSUN	TILNI FL250 ROSUN FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.

CHANGE (2/25): EGR323 ADDED.

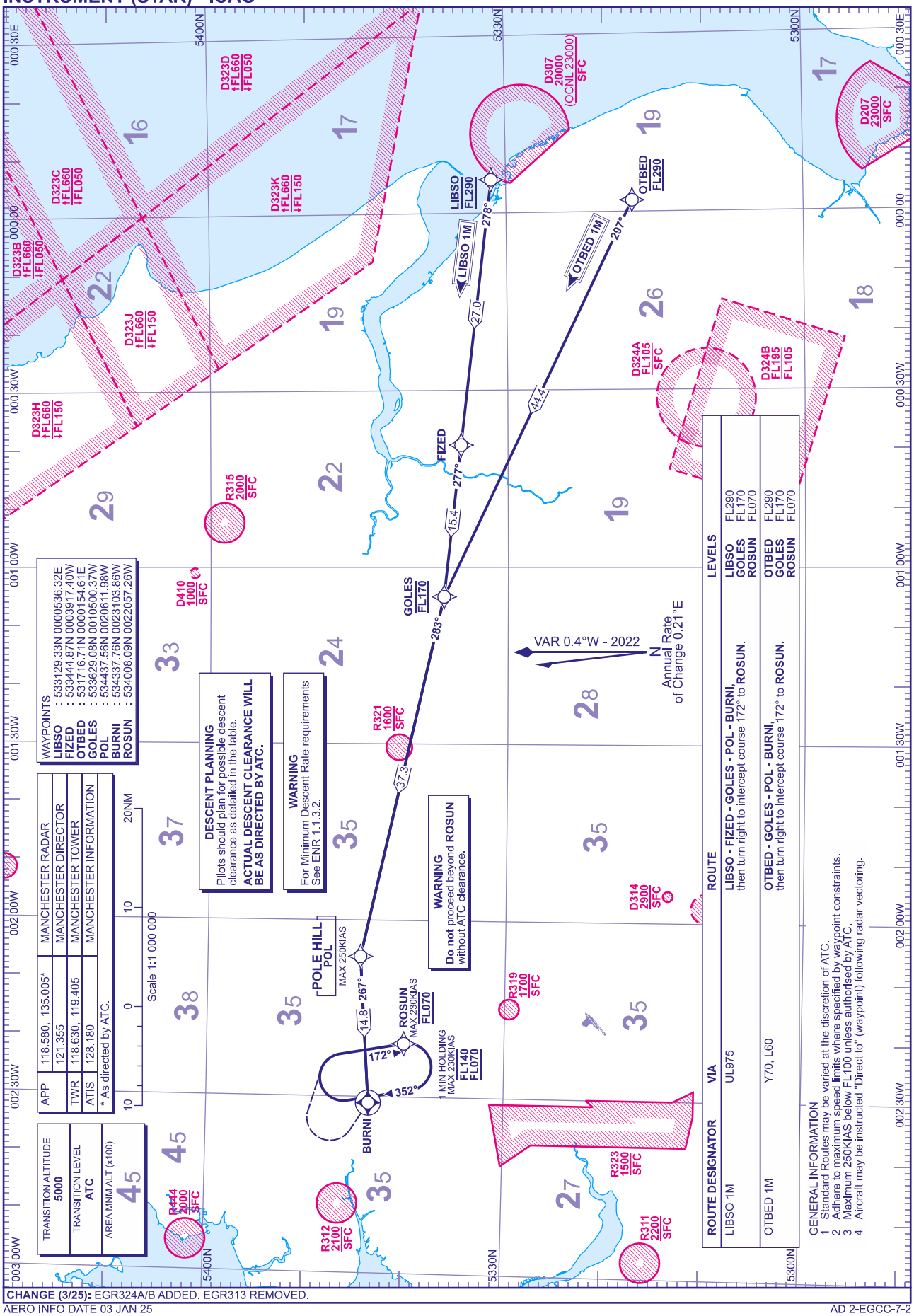
AERO INFO DATE 06 DEC 24

AD 2-EGCC-7-1

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER
LIBSO 1M OTBED 1M



CHANGE (3/25): EGR324A/B ADDED. EGR313 REMOVED.

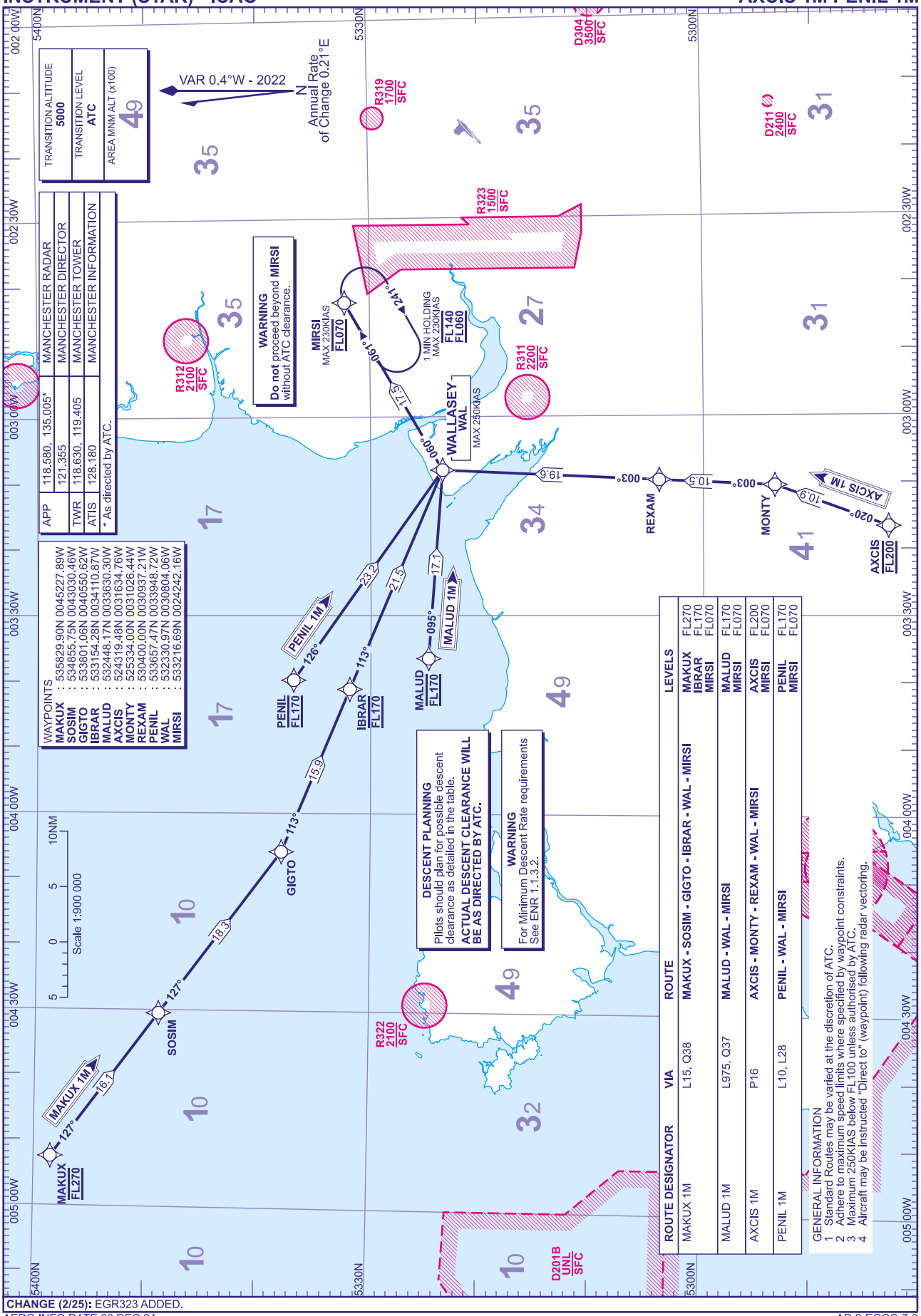
AERO INFO DATE 03 JAN 25

AD 2-EGCC-7-2

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER MAKUX 1M MALUD 1M AXCIS 1M PENIL 1M



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
MAKUX 1M	L15, Q38	MAKUX - SOSIM - GIGTO - IBRAR - WAL - MIRSI	MAKUX FL270 IBRAR FL170 MIRSI FL070
MALUD 1M	L975, Q37	MALUD - WAL - MIRSI	MALUD FL170 MIRSI FL070
AXCIS 1M	P16	AXCIS - MONTY - REXAM - WAL - MIRSI	AXCIS FL200 MIRSI FL070
PENIL 1M	L10, L28	PENIL - WAL - MIRSI	PENIL FL170 MIRSI FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.

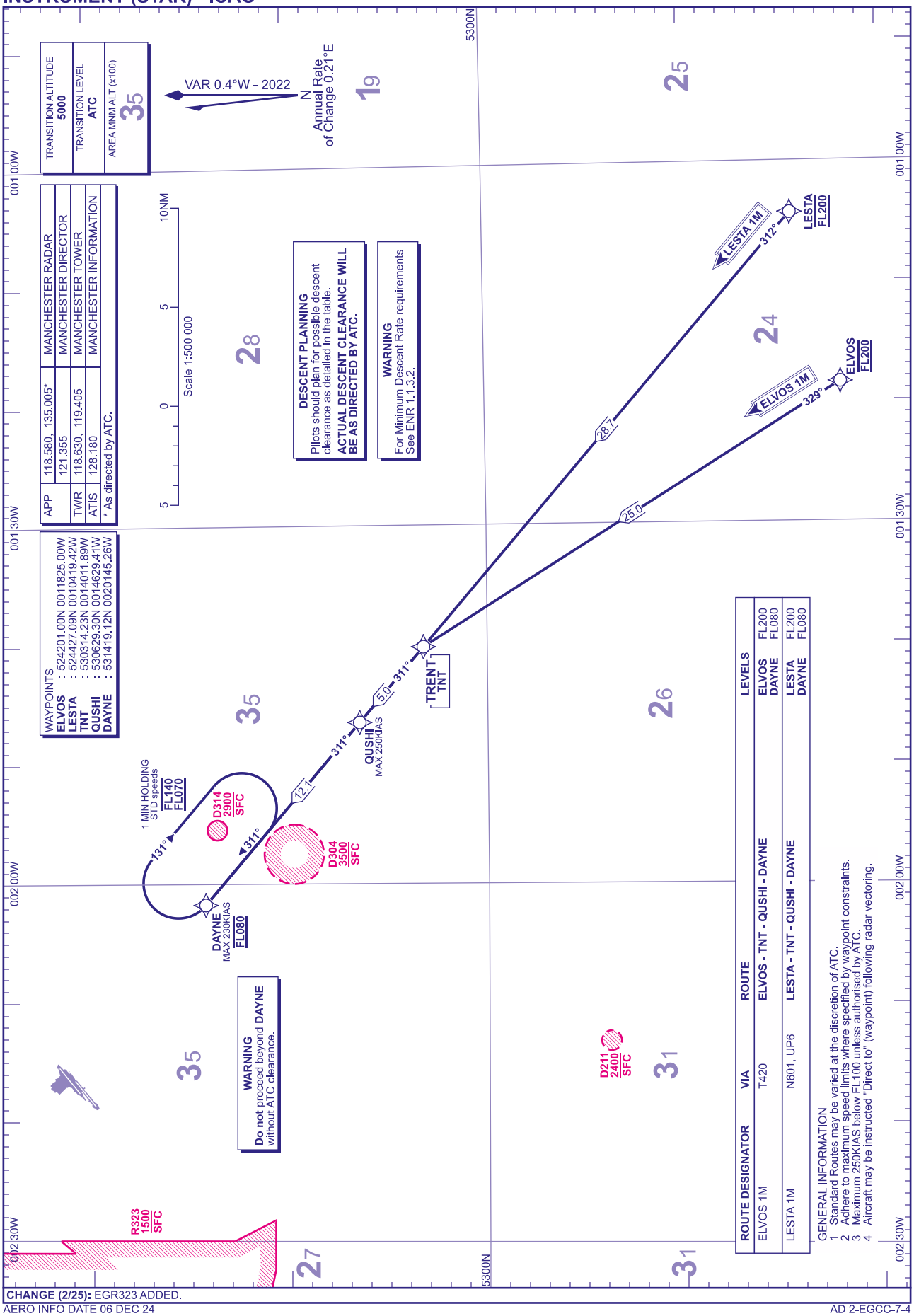
CHANGE (2/25): EGR323 ADDED.
AERO INFO DATE 06 DEC 24

AD 2-EGCC-7-3

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

MANCHESTER
ELVOS 1M LESTA 1M



CHANGE (2/25): EGR323 ADDED.
AERO INFO DATE 06 DEC 24

Standard Instrument Arrival Coding Tables

MANCHESTER LAKEY 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LAKEY1M	001	IF	LAKEY	541420.00N 0025852.38W	N	-	-	-	-	FL200	-	RNAV1
LAKEY1M	002	TF	DIZZE	535042.74N 0023232.91W	N	147° (146.6°)	-0.4	28.3	-	-	-250	RNAV1
LAKEY1M	003	TF	ROSUN	534008.09N 0022057.26W	N	147° (146.9°)	-0.4	12.6	-	FL070	-230	RNAV1

MANCHESTER SETEL 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SETEL1M	001	IF	SETEL	540044.64N 0022608.71W	N	-	-	-	-	-	-250	RNAV1
SETEL1M	002	TF	ROSUN	534008.09N 0022057.26W	N	172° (171.5°)	-0.4	20.9	-	FL070	-230	RNAV1

MANCHESTER TILNI 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TILNI1M	001	IF	TILNI	543251.41N 0015117.89W	N	-	-	-	-	FL250	-	RNAV1
TILNI1M	002	TF	GASKO	541328.97N 0015721.30W	N	191° (190.4°)	-0.4	19.7	RIGHT	-	-	RNAV1
TILNI1M	003	TF	BEGAM	540924.84N 0020715.43W	N	235° (235.1°)	-0.4	7.1	-	-	-	RNAV1
TILNI1M	004	TF	SETEL	540044.64N 0022608.71W	N	233° (232.2°)	-0.4	14.1	LEFT	-	-250	RNAV1
TILNI1M	005	TF	ROSUN	534008.09N 0022057.26W	N	172° (171.5°)	-0.4	20.9	-	FL070	-230	RNAV1

MANCHESTER LIBSO 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LIBSO1M	001	IF	LIBSO	533129.33N 0000536.32E	N	-	-	-	-	FL290	-	RNAV1
LIBSO1M	002	TF	FIZED	533444.87N 0003917.40W	N	278° (277.3°)	-0.4	27.0	-	-	-	RNAV1
LIBSO1M	003	TF	GOLES	533629.08N 0010500.37W	N	277° (276.7°)	-0.4	15.4	RIGHT	FL170	-	RNAV1
LIBSO1M	004	TF	POL	534437.56N 0020611.98W	N	283° (283.0°)	-0.4	37.3	LEFT	-	-250	RNAV1
LIBSO1M	005	TF	BURNI	534337.76N 0023103.86W	Y	267° (266.3°)	-0.4	14.8	RIGHT	-	-	RNAV1
LIBSO1M	006	CF	ROSUN	534008.09N 0022057.26W	N	172° (171.1°)	-0.4	-	-	FL070	-230	RNAV1

CHANGE (3/23): SPECIFICATION CHANGE.
AERO INFO DATE 14 DEC 22

Standard Instrument Arrival Coding Tables

MANCHESTER OTBED 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OTBED1M	001	IF	OTBED	531716.71N 0000154.61E	N	-	-	-	-	FL290	-	RNAV1
OTBED1M	002	TF	GOLES	533629.08N 0010500.37W	N	297° (296.1°)	-0.4	44.4	LEFT	FL170	-	RNAV1
OTBED1M	003	TF	POL	534437.56N 0020611.98W	N	283° (283.0°)	-0.4	37.3	LEFT	-	-250	RNAV1
OTBED1M	004	TF	BURNI	534337.76N 0023103.86W	Y	267° (266.3°)	-0.4	14.8	RIGHT	-	-	RNAV1
OTBED1M	005	CF	ROSUN	534008.09N 0022057.26W	N	172° (171.1°)	-0.4	-	-	FL070	-230	RNAV1

MANCHESTER MAKUX 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MAKUX1M	001	IF	MAKUX	535829.90N 0045227.89W	N	-	-	-	-	FL270	-	RNAV1
MAKUX1M	002	TF	SOSIM	534855.75N 0043030.46W	N	127° (126.3°)	-0.4	16.1	-	-	-	RNAV1
MAKUX1M	003	TF	GIGTO	533801.06N 0040550.62W	N	127° (126.6°)	-0.4	18.3	LEFT	-	-	RNAV1
MAKUX1M	004	TF	IBRAR	533154.28N 0034110.87W	N	113° (112.5°)	-0.4	15.9	-	FL170	-	RNAV1
MAKUX1M	005	TF	WAL	532330.97N 0030804.06W	N	113° (112.8°)	-0.4	21.5	LEFT	-	-250	RNAV1
MAKUX1M	006	TF	MIRSI	533216.69N 0024242.16W	N	060° (059.8°)	-0.4	17.5	-	FL070	-230	RNAV1

MANCHESTER MALUD 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MALUD1M	001	IF	MALUD	532448.17N 0033630.30W	N	-	-	-	-	FL170	-	RNAV1
MALUD1M	002	TF	WAL	532330.97N 0030804.06W	N	095° (094.1°)	-0.4	17.1	LEFT	-	-250	RNAV1
MALUD1M	003	TF	MIRSI	533216.69N 0024242.16W	N	060° (059.8°)	-0.4	17.5	-	FL070	-230	RNAV1

MANCHESTER AXCIS 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AXCIS1M	001	IF	AXCIS	524319.48N 0031634.76W	N	-	-	-	-	FL200	-	RNAV1
AXCIS1M	002	TF	MONTY	525334.00N 0031026.44W	N	020° (019.9°)	-0.4	10.9	LEFT	-	-	RNAV1
AXCIS1M	003	TF	REXAM	530400.00N 0030937.21W	N	003° (002.7°)	-0.4	10.5	-	-	-	RNAV1
AXCIS1M	004	TF	WAL	532330.97N 0030804.06W	N	003° (002.7°)	-0.4	19.6	RIGHT	-	-250	RNAV1
AXCIS1M	005	TF	MIRSI	533216.69N 0024242.16W	N	060° (059.8°)	-0.4	17.5	-	FL070	-230	RNAV1

CHANGE (3/23): AXCIS 1M ADDED. OKTEM 1M REMOVED.
AERO INFO DATE 15 DEC 22

Standard Instrument Arrival Coding Tables

MANCHESTER PENIL 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PENIL1M	001	IF	PENIL	533657.47N 0033948.72W	N	-	-	-	-	FL170	-	RNAV1
PENIL1M	002	TF	WAL	532330.97N 0030804.06W	N	126° (125.2°)	-0.4	23.2	LEFT	-	-250	RNAV1
PENIL1M	003	TF	MIRSI	533216.69N 0024242.16W	N	060° (059.8°)	-0.4	17.5	-	FL070	-230	RNAV1

MANCHESTER ELVOS 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ELVOS1M	001	IF	ELVOS	524201.00N 0011825.00W	N	-	-	-	-	FL200	-	RNAV1
ELVOS1M	002	TF	TNT	530314.23N 0014011.89W	N	329° (328.3°)	-0.4	25.0	LEFT	-	-	RNAV1
ELVOS1M	003	TF	QUSHI	530629.30N 0014629.41W	N	311° (310.7°)	-0.4	5.0	-	-	-250	RNAV1
ELVOS1M	004	TF	DAYNE	531419.12N 0020145.26W	N	311° (310.6°)	-0.4	12.1	-	FL080	-230	RNAV1

MANCHESTER LESTA 1M

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LESTA1M	001	IF	LESTA	524427.09N 0010419.42W	N	-	-	-	-	FL200	-	RNAV1
LESTA1M	002	TF	TNT	530314.23N 0014011.89W	N	312° (311.1°)	-0.4	28.7	-	-	-	RNAV1
LESTA1M	003	TF	QUSHI	530629.30N 0014629.41W	N	311° (310.7°)	-0.4	5.0	-	-	-250	RNAV1
LESTA1M	004	TF	DAYNE	531419.12N 0020145.26W	N	311° (310.6°)	-0.4	12.1	-	FL080	-230	RNAV1

CHANGE (3/23): SPECIFICATION CHANGE.
AERO INFO DATE 15 DEC 22

RNAV Hold Coding Tables

MANCHESTER DAYNE Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DAYNE	-	-	DAYNE	531419.12N 0020145.26W	Y	311° (310.7°)	-0.4	1 MIN	RIGHT	-FL140 +FL070	-230	RNAV1

MANCHESTER MIRSI Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
MIRSI	-	-	MIRSI	533216.69N 0024242.16W	Y	061° (060.6°)	-0.4	1 MIN	RIGHT	-FL140 +FL060	-230	RNAV1

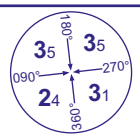
MANCHESTER ROSUN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ROSUN	-	-	ROSUN	534008.09N 0022057.26W	Y	172° (171.1°)	-0.4	1 MIN	RIGHT	-FL140 +FL070	-230	RNAV1

CHANGE (3/23): SPECIFICATION CHANGE.
AERO INFO DATE 15 DEC 22

INSTRUMENT APPROACH CHART - ICAO

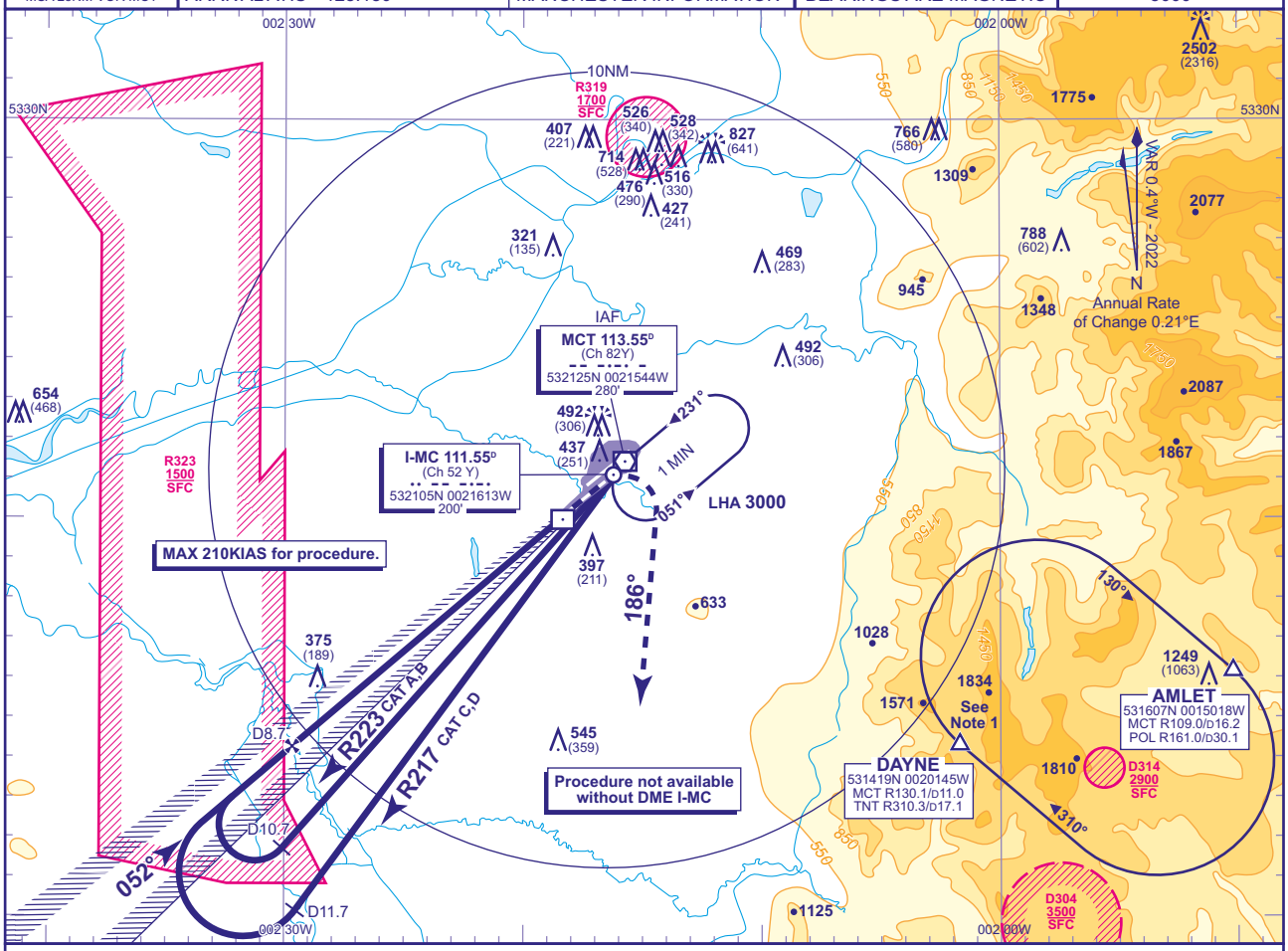
MANCHESTER ILS/DME (I-MC) RWY 05R
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

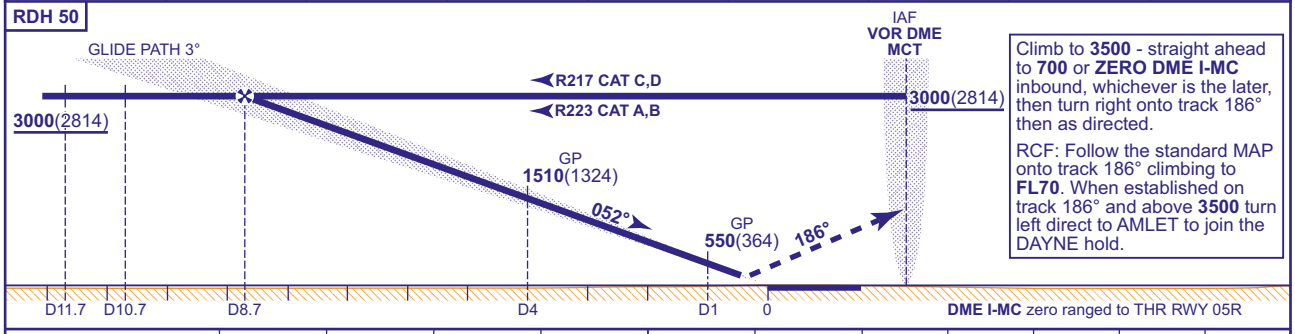
APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	186
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION	
	121.855, 121.705	MANCHESTER GROUND	2502 AMSL (2316) (ABOVE THR)	
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE GLIDEPATH 3°, 320FT/NM

DME I-MC	8	7	6	5	4	3	2	1
ALT(HGT)	**2780**(2594)	**2460**(2274)	**2140**(1954)	**1820**(1634)	**1510**(1324)	**1190**(1004)	**870**(684)	**550**(364)



Climb to **3500** - straight ahead to **700** or **ZERO DME I-MC** inbound, whichever is the later, then turn right onto track 186° then as directed.

RCF: Follow the standard MAP onto track 186° climbing to **FL70**. When established on track 186° and above **3500** turn left direct to AMLET to join the DAYNE hold.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**328**(142)	**338**(152)	**350**(164)	**364**(178)
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	420

NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 Procedure restricted to maximum 210KIAS.

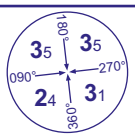
CHANGE (8/25): TNT VOR RECALIBRATED. DAYNE HOLD REVISED. AMLET/DAYNE WAYPOINT VOR RADIALS REVISED.

AERO INFO DATE 16 MAY 25

AD 2-EGCC-8-1

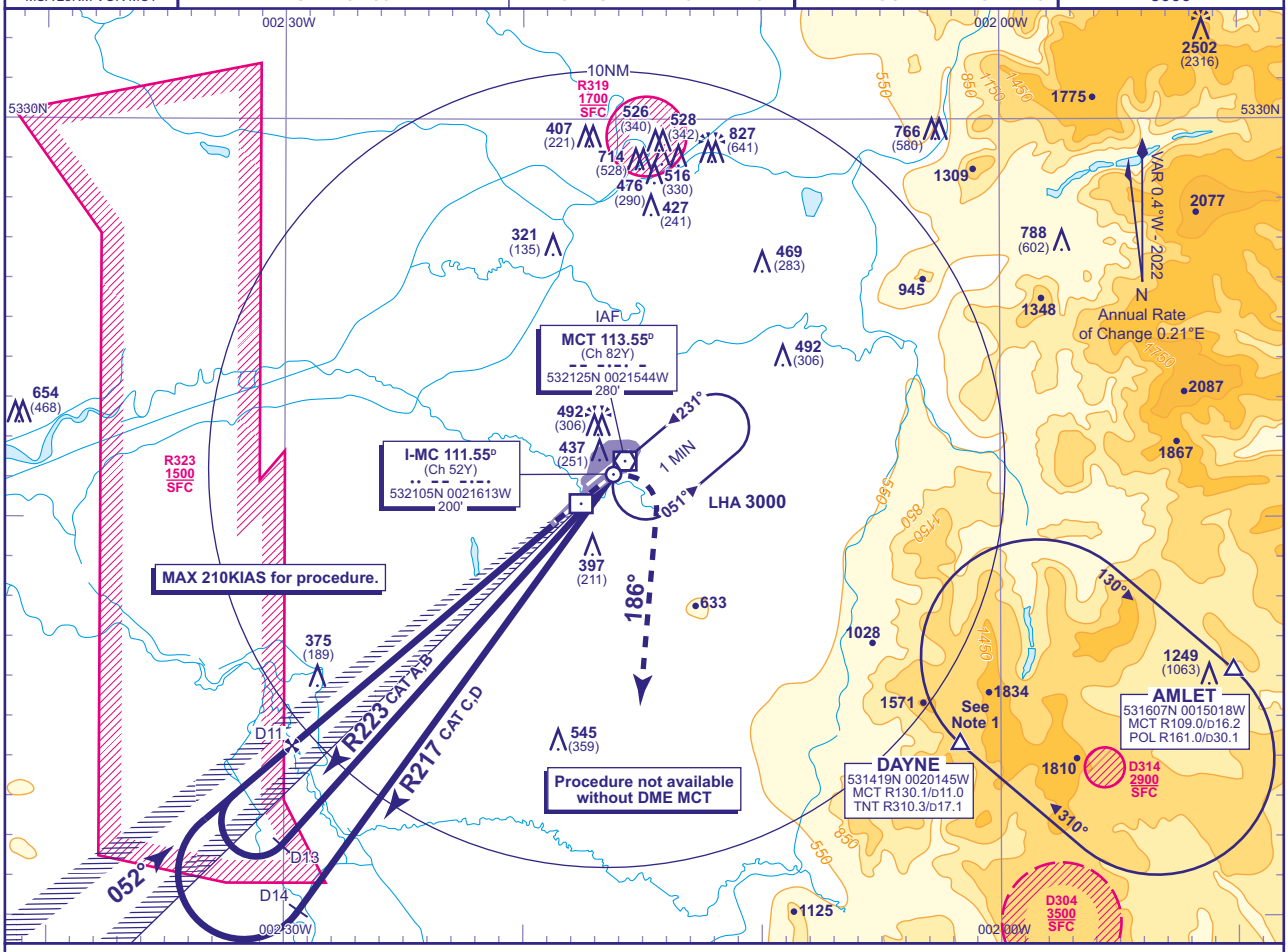
INSTRUMENT APPROACH CHART - ICAO

MANCHESTER ILS/DME (MCT) RWY 05R
(ACFT CAT A,B,C,D)



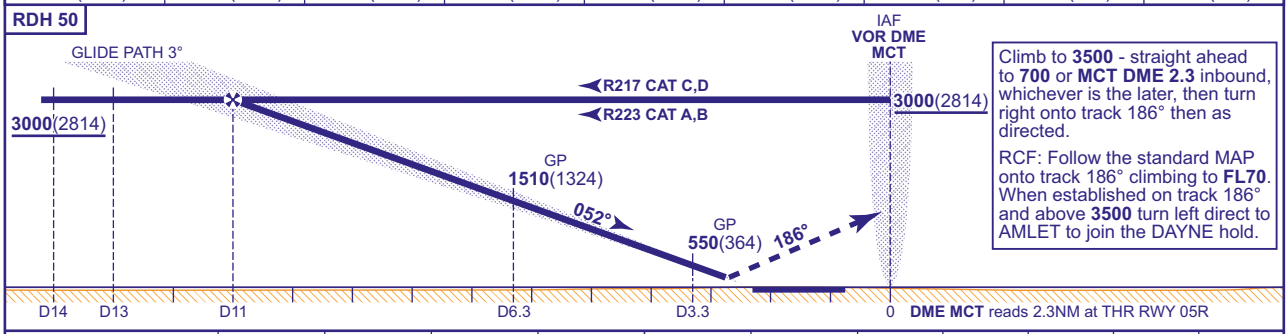
MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257	TRANSITION ALTITUDE 5000
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	186	
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION 2502 AMSL (2316) (ABOVE THR)		
	121.855, 121.705	MANCHESTER GROUND			
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDEPATH 3°, 320FT/NM

DME MCT	10	9	8	7	6	5	4	3
ALT(HGT)	**2680**(2494)	**2360**(2174)	**2050**(1864)	**1730**(1544)	**1410**(1224)	**1090**(904)	**780**(594)	**460**(274)



Climb to **3500** - straight ahead to **700** or **MCT DME 2.3** inbound, whichever is the later, then turn right onto track 186° then as directed.

RCF: Follow the standard MAP onto track 186° climbing to **FL70**. When established on track 186° and above **3500** turn left direct to AMLET to join the DAYNE hold.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**328**(142)	**338**(152)	**350**(164)	**364**(178)
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	420

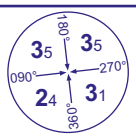
NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 Procedure restricted to maximum 210KIAS.

CHANGE (8/25): TNT VOR RECALIBRATED. DAYNE HOLD REVISED. AMLET/DAYNE WAYPOINT VOR RADIALS REVISED.

AERO INFO DATE 16 MAY 25 AD 2-EGCC-8-2

INSTRUMENT APPROACH CHART - ICAO

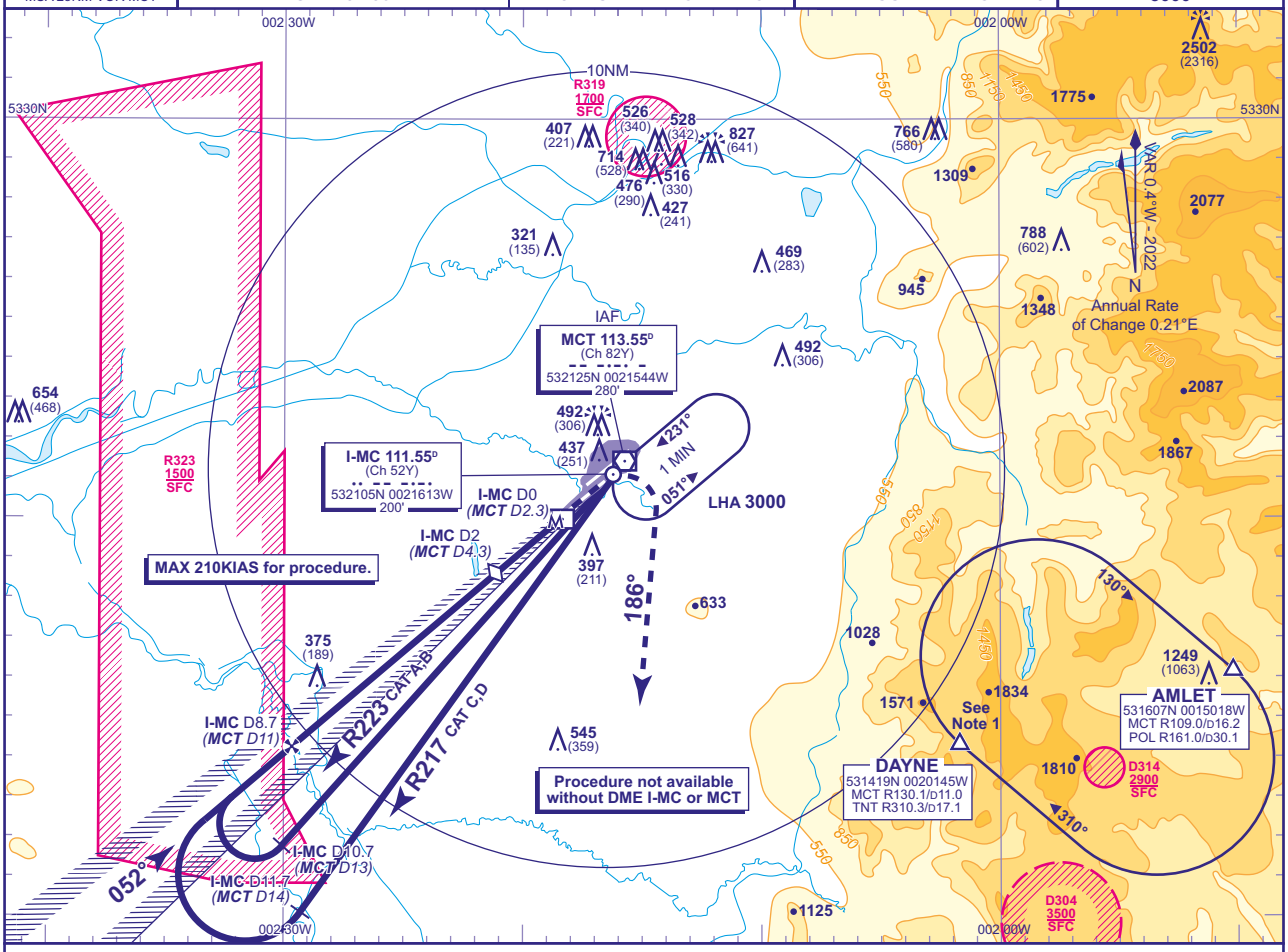
MANCHESTER LOC/DME (I-MC) RWY 05R
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

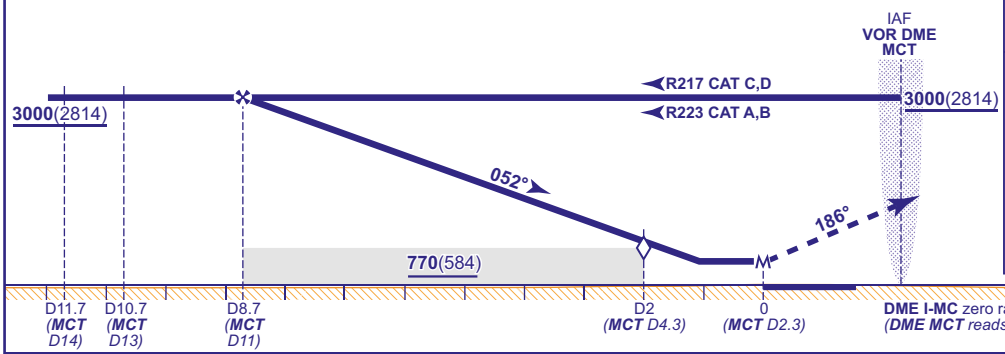
APP	118.580, 135.005	MANCHESTER RADAR		AD ELEVATION	257
	121.355	MANCHESTER DIRECTOR		THR ELEVATION	186
TWR	118.630, 119.405	MANCHESTER TOWER		OBSTACLE ELEVATION	
	121.855, 121.705	MANCHESTER GROUND		2502 AMSL (2316) (ABOVE THR)	
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-MC(MCT)	8(10.3)	7(9.3)	6(8.3)	5(7.3)	4(6.3)	3(5.3)	2(4.3)(SDF)	1(3.3)
ALT(HGT)	**2780**(2594)	**2460**(2274)	**2140**(1954)	**1820**(1634)	**1510**(1324)	**1190**(1004)	**870**(684)	**550**(364)



MAPt **I-MC DME ZERO/ MCT DME 2.3** (THR RWY 05R)

Climb to **3500** - straight ahead to **700** or **ZERO DME I-MC** inbound, whichever is the later, then turn right onto track 186° then as directed.

RCF: Follow the standard MAP onto track 186° climbing to **FL70**. When established on track 186° and above **3500** turn left direct to AMLET to join the DAYNE hold.

DME I-MC zero ranged to THR RWY 05R (***DME MCT*** *reads 2.3NM at THR RWY 05R)*

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**530**(344)	**530**(344)	**530**(344)	**530**(344)
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	420

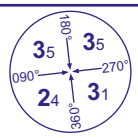
NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 Procedure restricted to maximum 210KIAS.

CHANGE (8/25): TNT VOR RECALIBRATED. DAYNE HOLD REVISED. AMLET/DAYNE WAYPOINT VOR RADIALS REVISED.

AERO INFO DATE 16 MAY 25

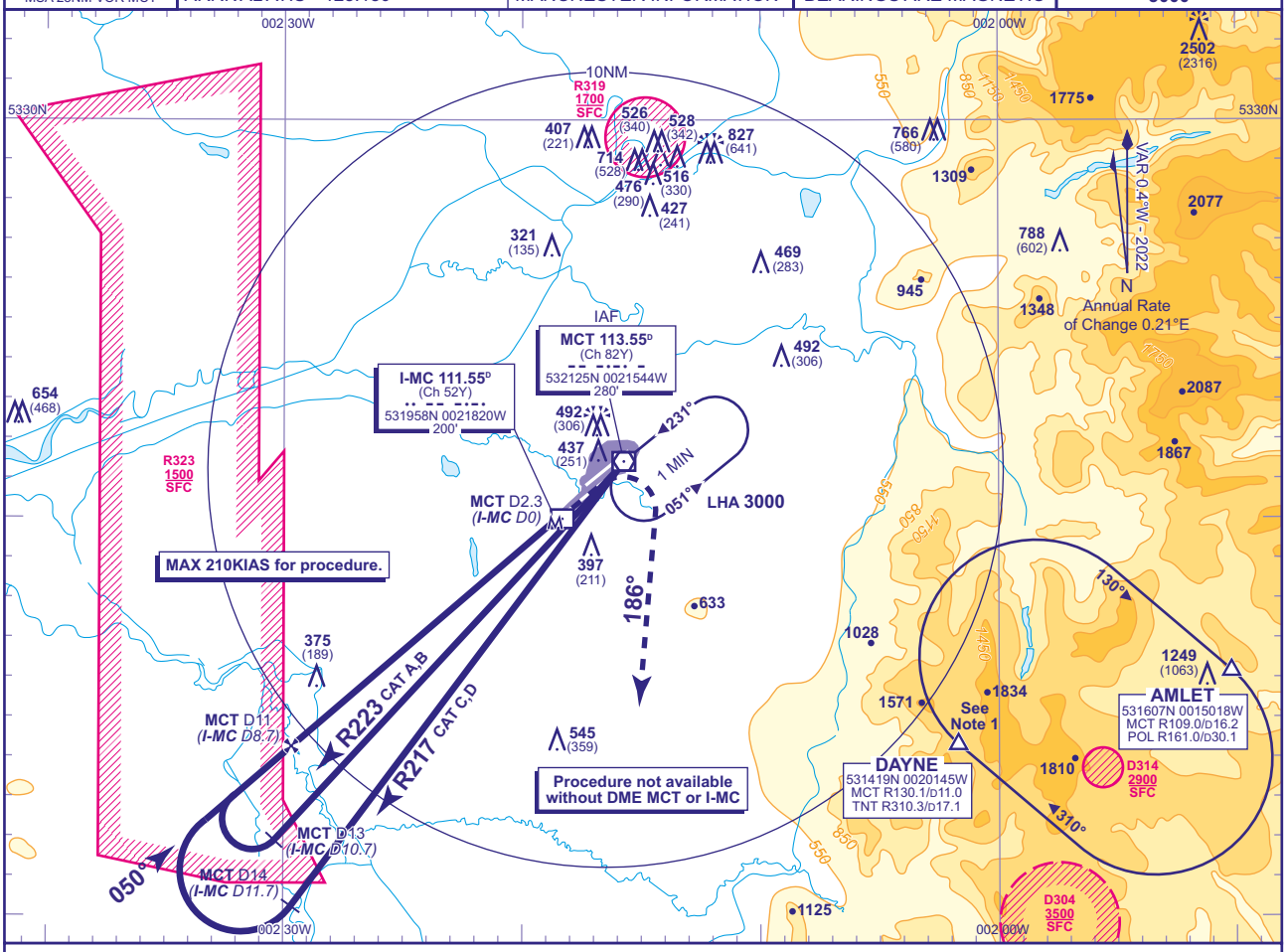
INSTRUMENT APPROACH CHART - ICAO

MANCHESTER VOR/DME RWY 05R
(ACFT CAT A,B,C,D)



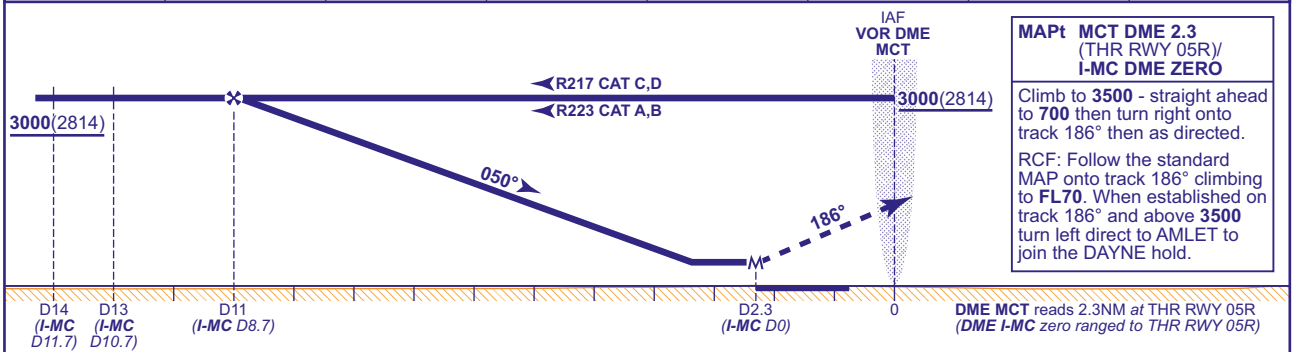
MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257	TRANSITION ALTITUDE 5000
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	186	
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION 2502 AMSL (2316) (ABOVE THR)		
	121.855, 121.705	MANCHESTER GROUND			
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME MCT(I-MC)	10(7.7)	9(6.7)	8(5.7)	7(4.7)	6(3.7)	5(2.7)	4(1.7)
ALT(HGT)	**2680**(2494)	**2360**(2174)	**2050**(1864)	**1730**(1544)	**1410**(1224)	**1090**(904)	**780**(594)



DME MCT reads 2.3NM *at* THR RWY 05R
(***DME I-MC*** *zero ranged to THR RWY 05R)*

MAPt MCT DME 2.3
(THR RWY 05R)/
I-MC DME ZERO

Climb to **3500** - straight ahead to **700** then turn right onto track 186° then as directed.

RCF: Follow the standard MAP onto track 186° climbing to **FL70**. When established on track 186° and above **3500** turn left direct to AMLET to join the DAYNE hold.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**770**(584)	**770**(584)	**770**(584)	**770**(584)
VM(C)OCA (OCH AAL)	**Total Area**	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	420

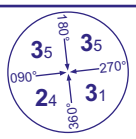
NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 DME I-MC may be used if MCT DME is not available.
3 Procedure restricted to maximum 210KIAS.
4 FAT offset 0.9° from RWY C/L.

CHANGE (8/25): TNT VOR RECALIBRATED. DAYNE HOLD REVISED. AMLET/DAYNE WAYPOINT VOR RADIALS REVISED.

AERO INFO DATE 16 MAY 25 AD 2-EGCC-8-4

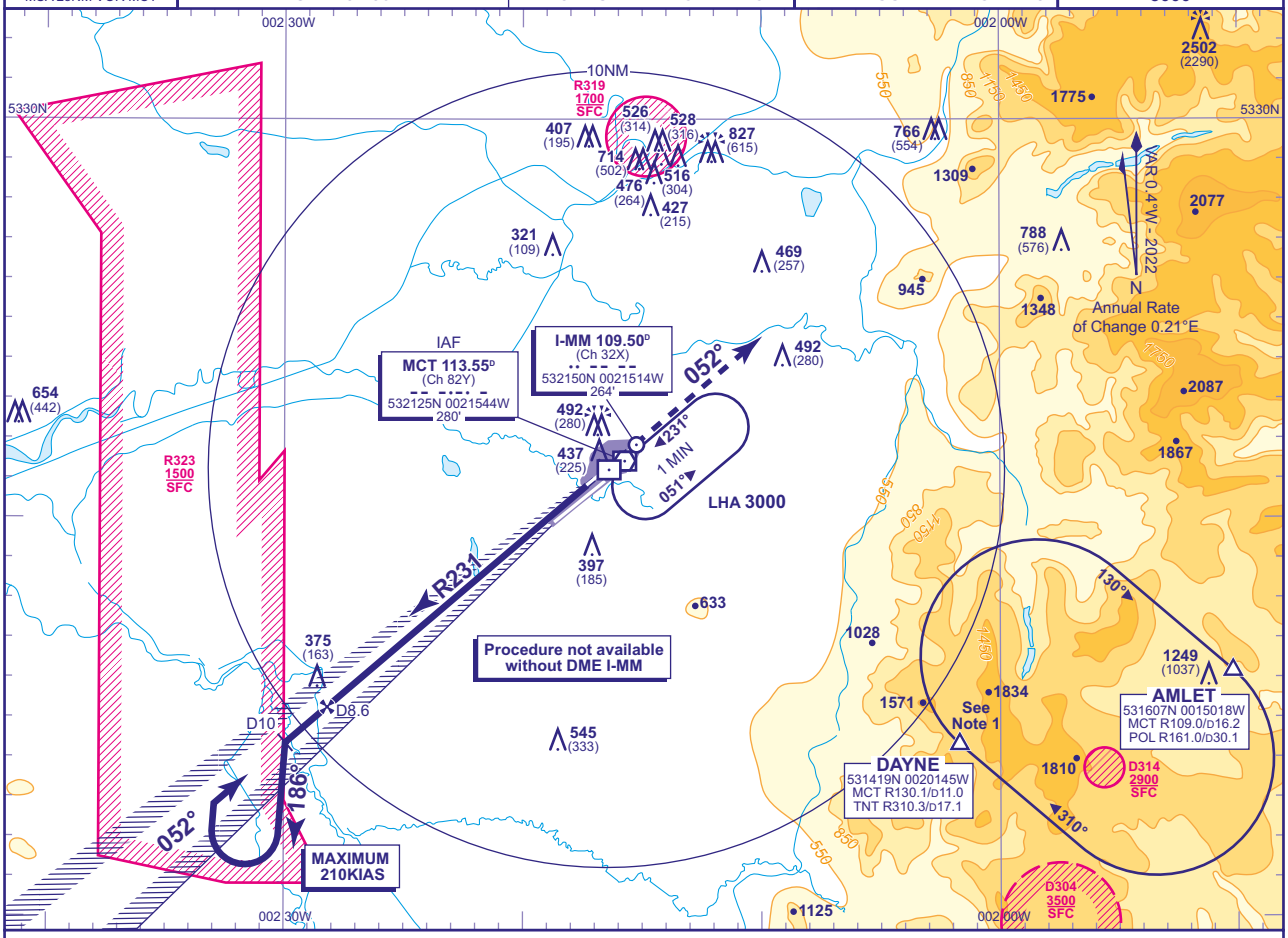
INSTRUMENT APPROACH CHART - ICAO

MANCHESTER ILS/DME (I-MM) RWY 05L
(ACFT CAT A,B,C,D)



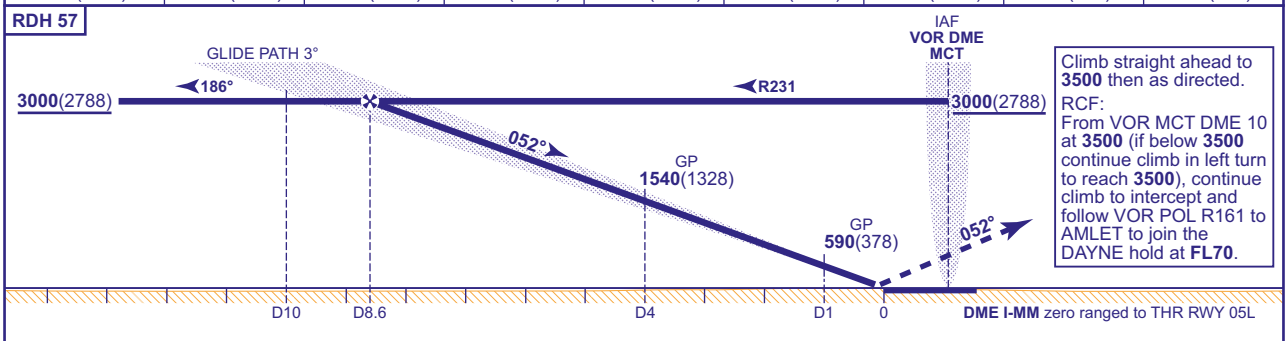
MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257	TRANSITION ALTITUDE 5000
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	212	
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION 2502 AMSL (2290) (ABOVE THR)		
	121.855, 121.705	MANCHESTER GROUND			
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-MM	8	7	6	5	4	3	2	1
ALT(HGT)	**2810**(2598)	**2490**(2278)	**2170**(1958)	**1860**(1648)	**1540**(1328)	**1220**(1008)	**900**(688)	**590**(378)



Climb straight ahead to **3500** then as directed.
RCF:
From VOR MCT DME 10 at **3500** (if below **3500** continue climb in left turn to reach **3500**), continue climb to intercept and follow VOR POL R161 to AMLET to join the DAYNE hold at **FL70**.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**369**(157)	**380**(168)	**392**(180)	**405**(193)
	CAT II	**277**(65)	**289**(77)		
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

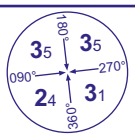
NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 Procedure turns restricted to maximum 210KIAS.

CHANGE (11/25): VOR POL RADIAL IN RCF CORRECTED.

AERO INFO DATE 05 AUG 25

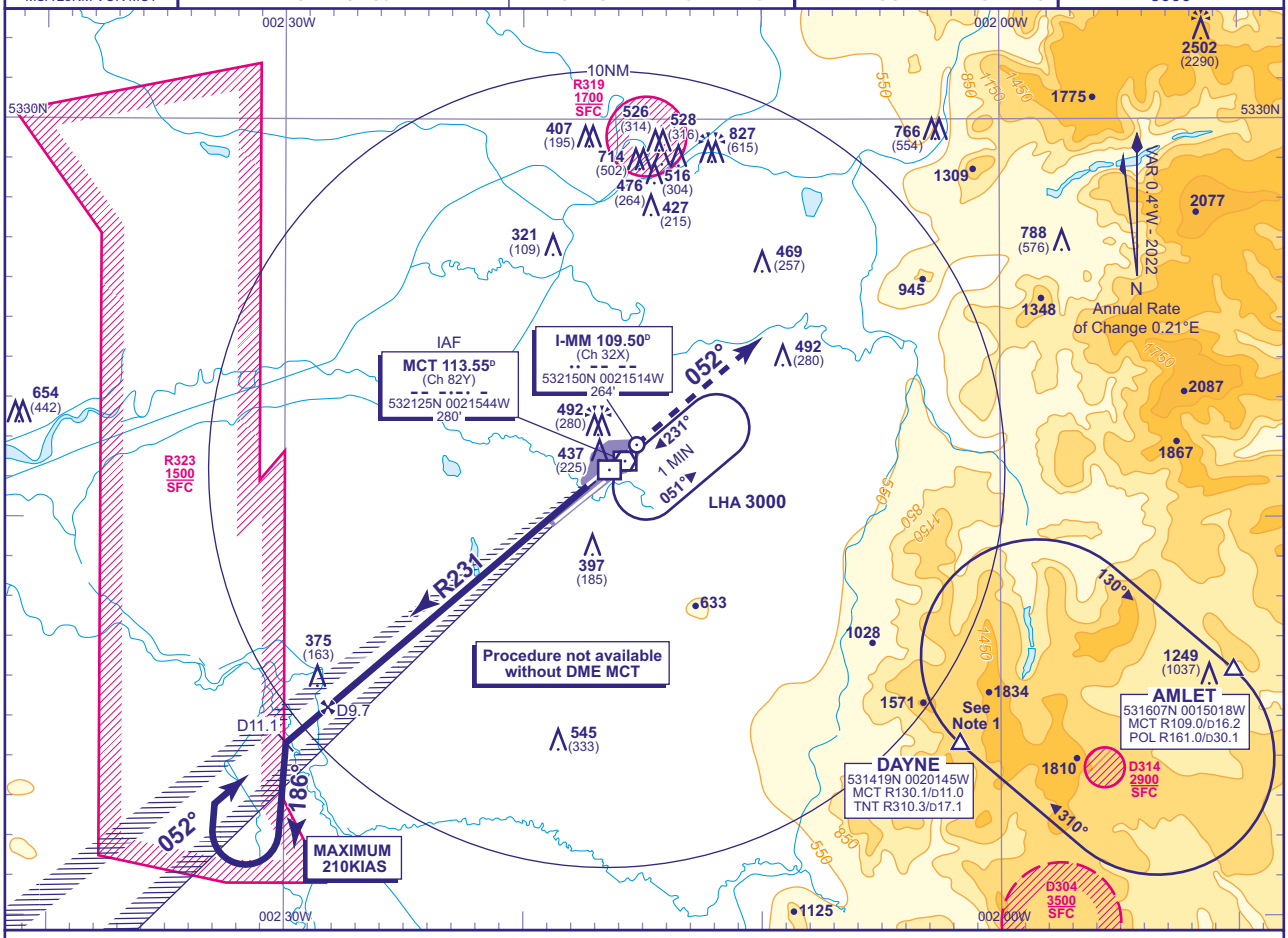
INSTRUMENT APPROACH CHART - ICAO

MANCHESTER ILS/DME (MCT) RWY 05L
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

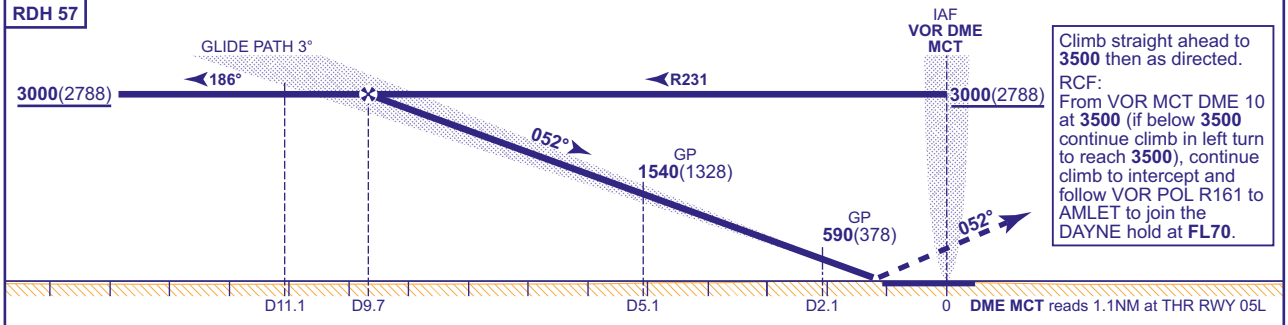
APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257	TRANSITION ALTITUDE 5000
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	212	
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION 2502 AMSL (2290) (ABOVE THR)		
	121.855, 121.705	MANCHESTER GROUND			
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME MCT	9.1	8.1	7.1	6.1	5.1	4.1	3.1	2.1
ALT(HGT)	**2810**(2598)	**2490**(2278)	**2170**(1958)	**1860**(1648)	**1540**(1328)	**1220**(1008)	**900**(688)	**590**(378)

RDH 57



Climb straight ahead to **3500** then as directed.
RCF:
From VOR MCT DME 10 at **3500** (if below **3500** continue climb in left turn to reach **3500**), continue climb to intercept and follow VOR POL R161 to AMLET to join the DAYNE hold at **FL70**.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	CAT I	**369**(157)	**380**(168)	**392**(180)	**405**(193)		FT/MIN	850	740	640	530	420
	CAT II	**277**(65)	**289**(77)									
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)							

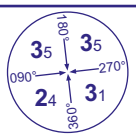
NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 Procedure turns restricted to maximum 210KIAS.

CHANGE (11/25): VOR POL RADIAL IN RCF CORRECTED.

AERO INFO DATE 05 AUG 25 AD 2-EGCC-8-6

INSTRUMENT APPROACH CHART - ICAO

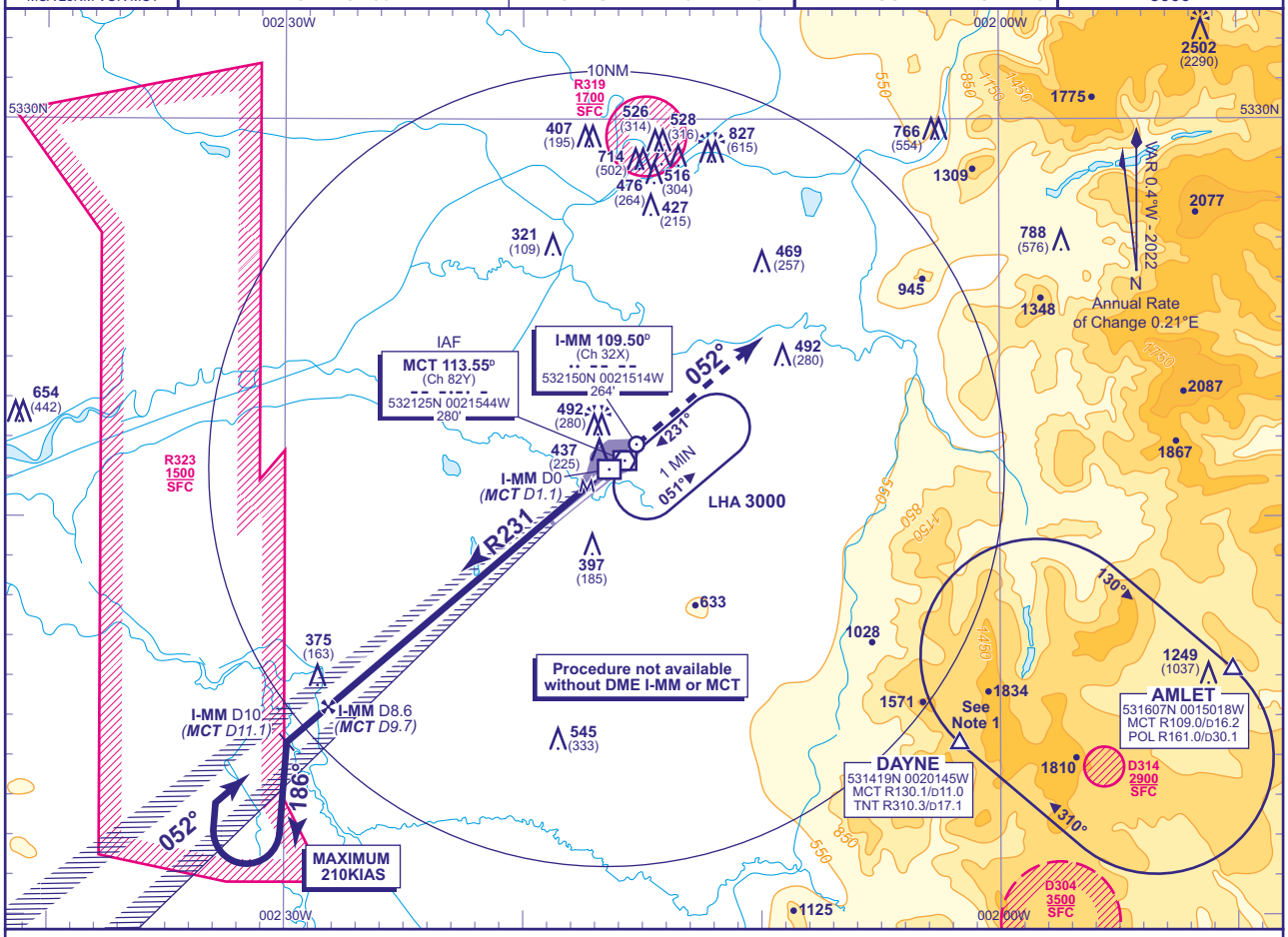
MANCHESTER LOC/DME RWY 05L
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

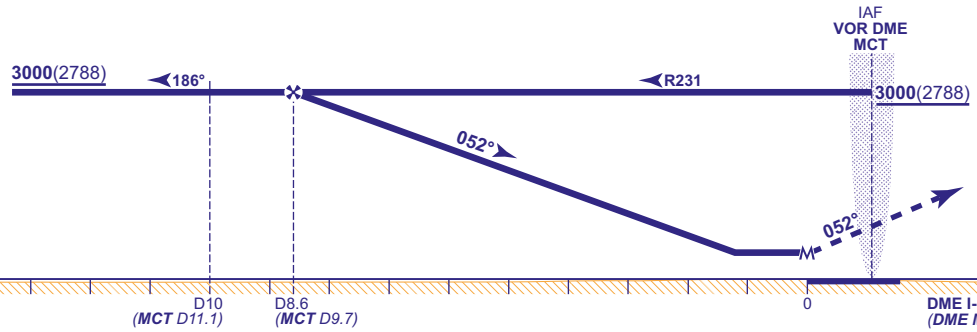
APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257	
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	212	
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION		
	121.855, 121.705	MANCHESTER GROUND	2502 AMSL (2290) (ABOVE THR)		
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

DME I-MM(MCT)	8(9.1)	7(8.1)	6(7.1)	5(6.1)	4(5.1)	3(4.1)	2(3.1)	1(2.1)
ALT(HGT)	**2810**(2598)	**2490**(2278)	**2170**(1958)	**1860**(1648)	**1540**(1328)	**1220**(1008)	**900**(688)	**590**(378)



MAPt I-MM DME ZERO/ MCT DME 1.1
(THR RWY 05L)

Climb straight ahead to **3500** then as directed.
RCF:
From VOR MCT DME 10 at **3500** (if below **3500** continue climb in left turn to reach **3500**), continue climb to intercept and follow VOR POL R161 to AMLET to join the DAYNE hold at **FL70.**

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**670**(458)	**670**(458)	**670**(458)	**670**(458)
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 DME MCT may be used if DME I-MM is not available.
3 Procedure turns restricted to maximum 210KIAS.

CHANGE (11/25): VOR POL RADIAL IN RCF CORRECTED.

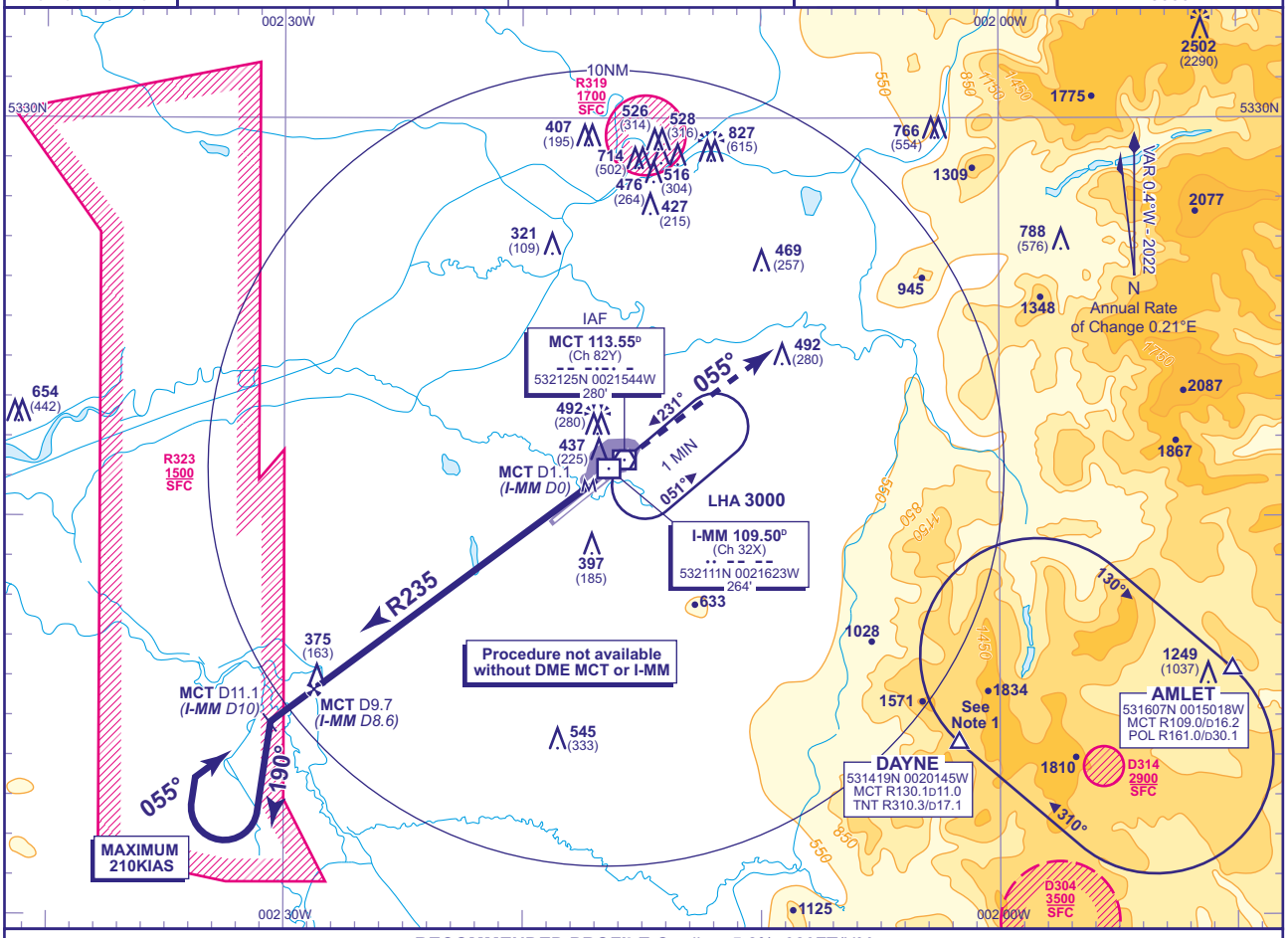
AERO INFO DATE 05 AUG 25

INSTRUMENT APPROACH CHART - ICAO

MANCHESTER VOR/DME RWY 05L
(ACFT CAT A,B,C,D)

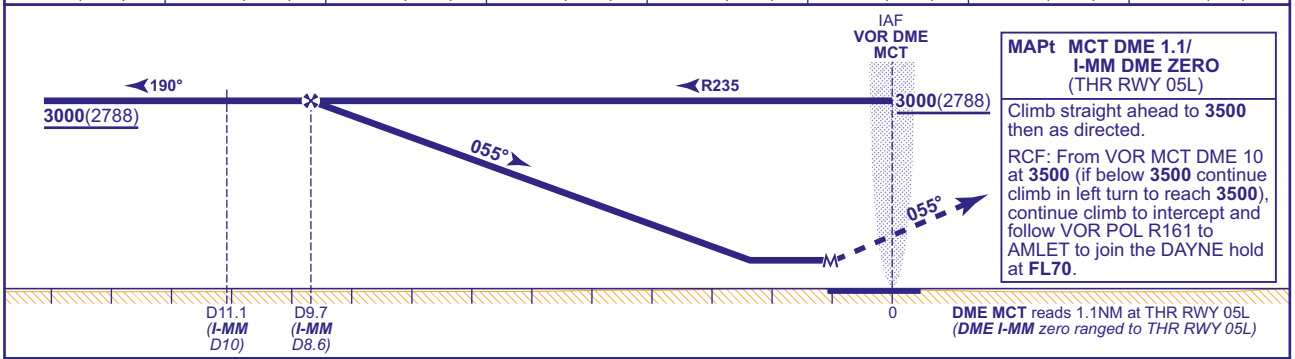
MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257	TRANSITION ALTITUDE 5000
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	212	
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION 2502 AMSL (2290) (ABOVE THR)		
	121.855, 121.705	MANCHESTER GROUND			
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME MCT(I-MM)	9.1(8)	8.1(7)	7.1(6)	6.1(5)	5.1(4)	4.1(3)	3.1(2)
ALT(HGT)	**2810**(2598)	**2490**(2278)	**2170**(1958)	**1860**(1648)	**1540**(1328)	**1220**(1008)	**900**(688)



MAPt MCT DME 1.1/ I-MM DME ZERO
(THR RWY 05L)

Climb straight ahead to **3500** then as directed.

RCF: From VOR MCT DME 10 at **3500** (if below **3500** continue climb in left turn to reach **3500**), continue climb to intercept and follow VOR POL R161 to AMLET to join the DAYNE hold at **FL70**.

DME MCT reads 1.1NM at THR RWY 05L
***(DME I-MM** zero ranged to THR RWY 05L)*

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**690**(478)	**690**(478)	**690**(478)	**690**(478)
VM(C)OCA (OCH AAL)	**Total Area**	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

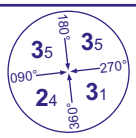
NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 DME I-MM may be used if DME MCT is not available.
3 FAT offset 4° from RWY C/L and crosses RWY C/L 0.82NM (nominal) before THR RWY 05L.
4 Procedure turns restricted to maximum to 210KIAS.

CHANGE (11/25): VOR POL RADIAL IN RCF CORRECTED.

AERO INFO DATE 05 AUG 25 AD 2-EGCC-8-8

INSTRUMENT APPROACH CHART - ICAO

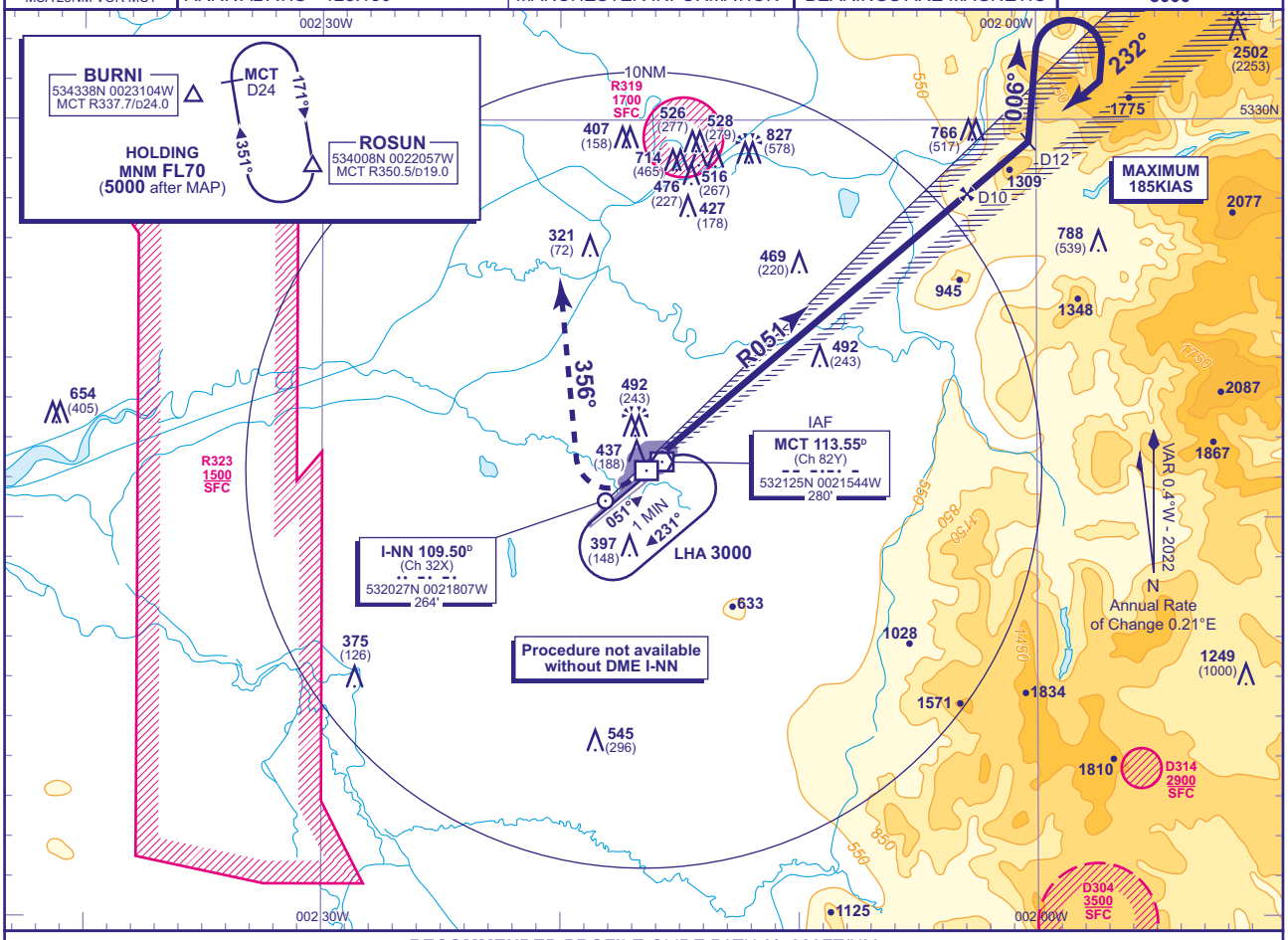
MANCHESTER ILS/DME (I-NN) RWY 23R
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	249
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION	
	121.855, 121.705	MANCHESTER GROUND	2502 AMSL (2253) (ABOVE THR)	
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



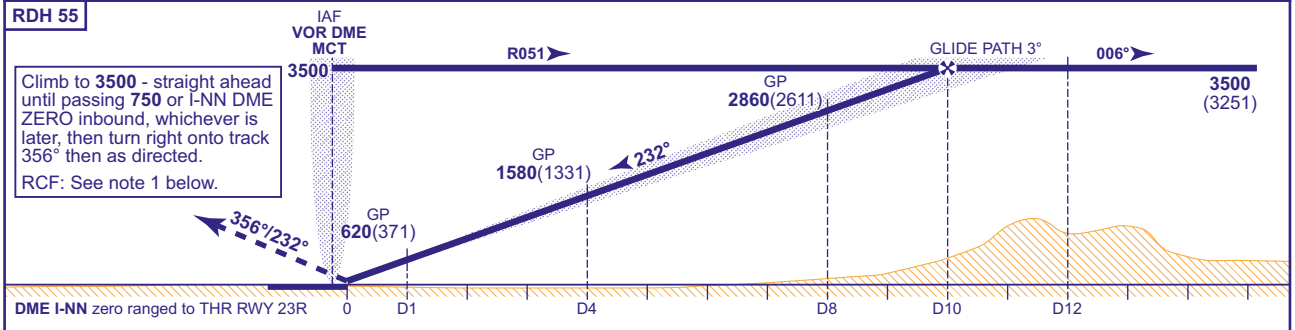
RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-NN	9	8	7	6	5	4	3	2	1
ALT(HGT)	**3180**(2931)	**2860**(2611)	**2540**(2291)	**2220**(1971)	**1900**(1651)	**1580**(1331)	**1260**(1011)	**940**(691)	**620**(371)

RDH 55

Climb to **3500** - straight ahead until passing **750** or I-NN DME ZERO inbound, whichever is later, then turn right onto track 356° then as directed.

RCF: See note 1 below.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**396**(147)	**409**(160)	**421**(172)	**435**(186)
	CAT II	**306**(57)	**317**(68)	**331**(82)	**351**(102)
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

NOTE 1 In the event of RCF follow the standard MAP on to track 356°. At MCT DME 10 turn direct to BURNI (MCT R338/MCT DME 24) climbing to **5000** to enter the ROSUN hold. Aircraft unable to make **3500** before MCT DME 10, commence climbing turn left to **3500** at MCT DME 10. At **3500** or above continue left turn and proceed direct to BURNI.

2 To ensure separation from departing traffic on RWY 23L, aircraft carrying out MAP should expedite the climb through **750**(501) before commencing the right turn onto track 356°.

3 Procedure turns restricted to maximum 185KIAS.

4 False localiser capture may be experienced when approaching RWY 23R from the North and South.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 09 DEC 24

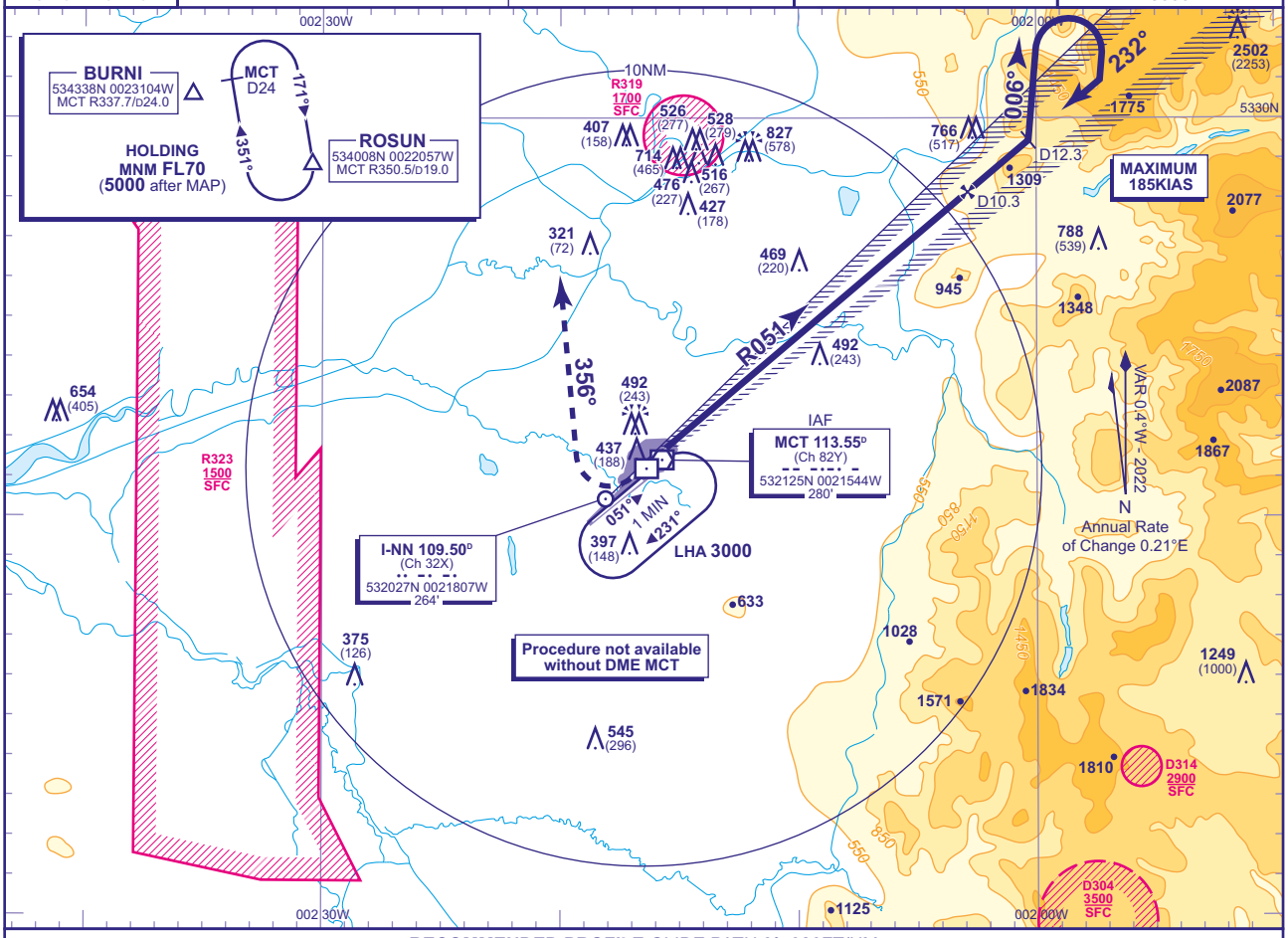
AD 2-EGCC-8-9

INSTRUMENT APPROACH CHART - ICAO

MANCHESTER ILS/DME (MCT) RWY 23R
(ACFT CAT A,B,C,D)

MSA 25NM VOR MCT	APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257
		121.355	MANCHESTER DIRECTOR	THR ELEVATION	249
	TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION	
		121.855, 121.705	MANCHESTER GROUND	2502 AMSL (2253) (ABOVE THR)	
	ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**

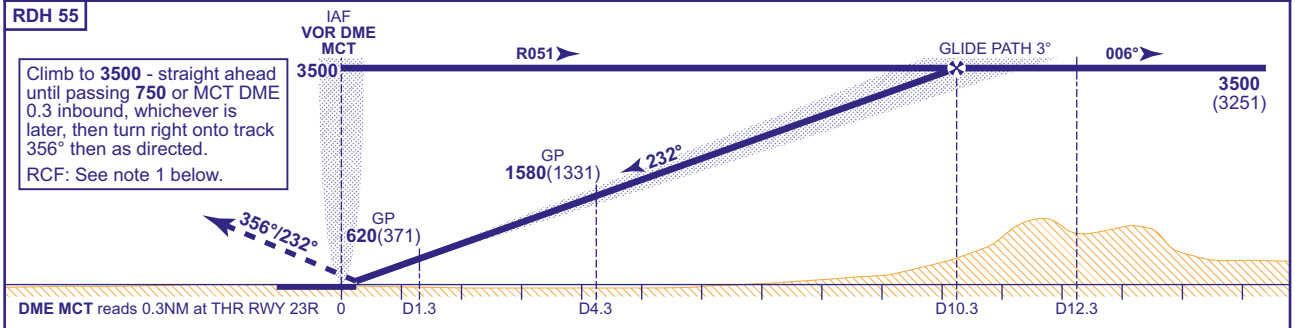


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME MCT	9.3	8.3	7.3	6.3	5.3	4.3	3.3	2.3	1.3
ALT(HGT)	**3180**(2931)	**2860**(2611)	**2540**(2291)	**2220**(1971)	**1900**(1651)	**1580**(1331)	**1260**(1011)	**940**(691)	**620**(371)

RDH 55

Climb to **3500** - straight ahead until passing **750** or MCT DME 0.3 inbound, whichever is later, then turn right onto track 356° then as directed.
RCF: See note 1 below.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**396**(147)	**409**(160)	**421**(172)	**435**(186)
	CAT II	**306**(57)	**317**(68)	**331**(82)	**351**(102)
VM(C)OCA (OCH AAL)	**Total Area**	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	750	640	530	430

NOTE 1 In the event of RCF follow the standard MAP on to track 356°. At MCT DME 10 turn direct to BURNI (MCT R338/MCT DME 24) climbing to **5000** to enter the ROSUN hold. Aircraft unable to make **3500** before MCT DME 10, commence climbing turn left to **3500** at MCT DME 10. At **3500** or above continue left turn and proceed direct to BURNI.
2 To ensure separation from departing traffic on RWY 23L, aircraft carrying out MAP should expedite the climb through **750**(501) before commencing the right turn onto track 356°.
3 Procedure turns restricted to maximum 185KIAS.
4 False localiser capture may be experienced when approaching RWY 23R from the North and South.

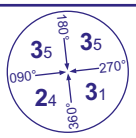
CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 09 DEC 24 AD 2-EGCC-8-10

INSTRUMENT APPROACH CHART - ICAO

MANCHESTER LOC/DME RWY 23R

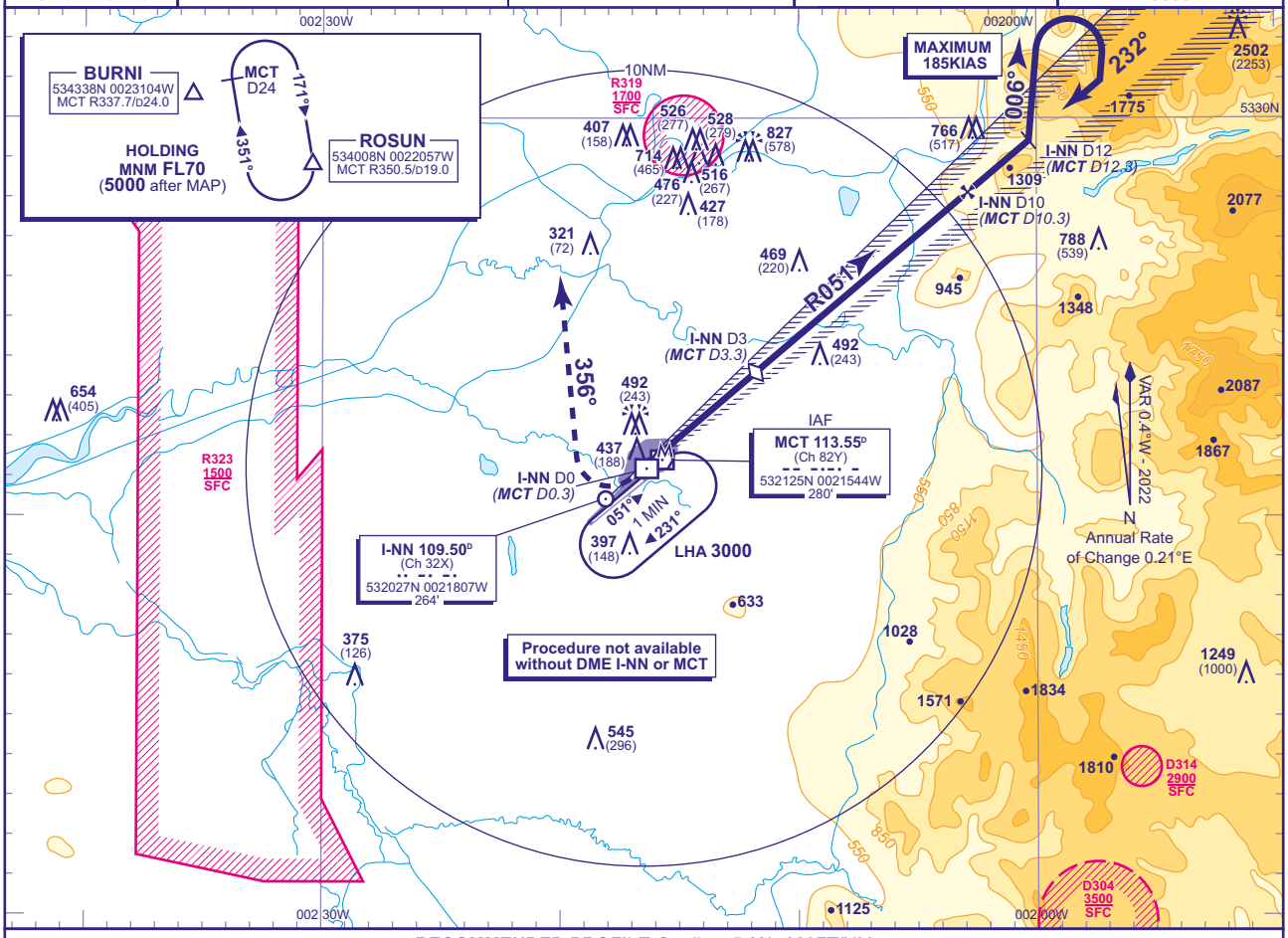
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR		AD ELEVATION	257
	121.355	MANCHESTER DIRECTOR		THR ELEVATION	249
TWR	118.630, 119.405	MANCHESTER TOWER		OBSTACLE ELEVATION	
	121.855, 121.705	MANCHESTER GROUND		2502 AMSL (2253) (ABOVE THR)	
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



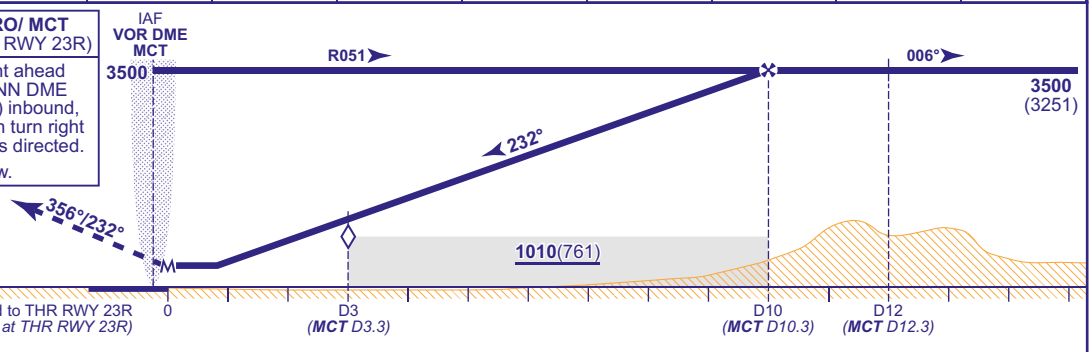
RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-NN(MCT)	9(9.3)	8(8.3)	7(7.3)	6(6.3)	5(5.3)	4(4.3)	3(3.3) **(SDF)**	2(2.3)	1(1.3)
ALT(HGT)	**3180**(2931)	**2860**(2611)	**2540**(2291)	**2220**(1971)	**1900**(1651)	**1580**(1331)	**1260**(1011)	**940**(691)	**620**(371)

MAPt I-NN DME ZERO/ MCT DME 0.3 (THR RWY 23R)

Climb to **3500** - straight ahead until passing **750** or I-NN DME ZERO (MCT DME 0.3) inbound, whichever is later, then turn right onto track 356° then as directed.

RCF: See note 1 below.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**640**(391)	**640**(391)	**640**(391)	**640**(391)
VM(C)OCA (OCH AAL)	**Total Area**	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

NOTE 1 In the event of RCF follow the standard MAP on to track 356°. At MCT DME 10 turn direct to BURNI (MCT R338/MCT DME 24) climbing to **5000** to enter the ROSUN hold. Aircraft unable to make **3500** before MCT DME 10, commence climbing turn left to **3500** at MCT DME 10. At **3500** or above continue left turn and proceed direct to BURNI.

2 DME MCT may be used if DME I-NN is not available.

3 Procedure turns restricted to maximum 185KIAS.

4 False localiser capture may be experienced when approaching RWY 23R from the North and South.

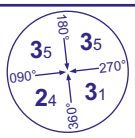
CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 09 DEC 24

AD 2-EGCC-8-11

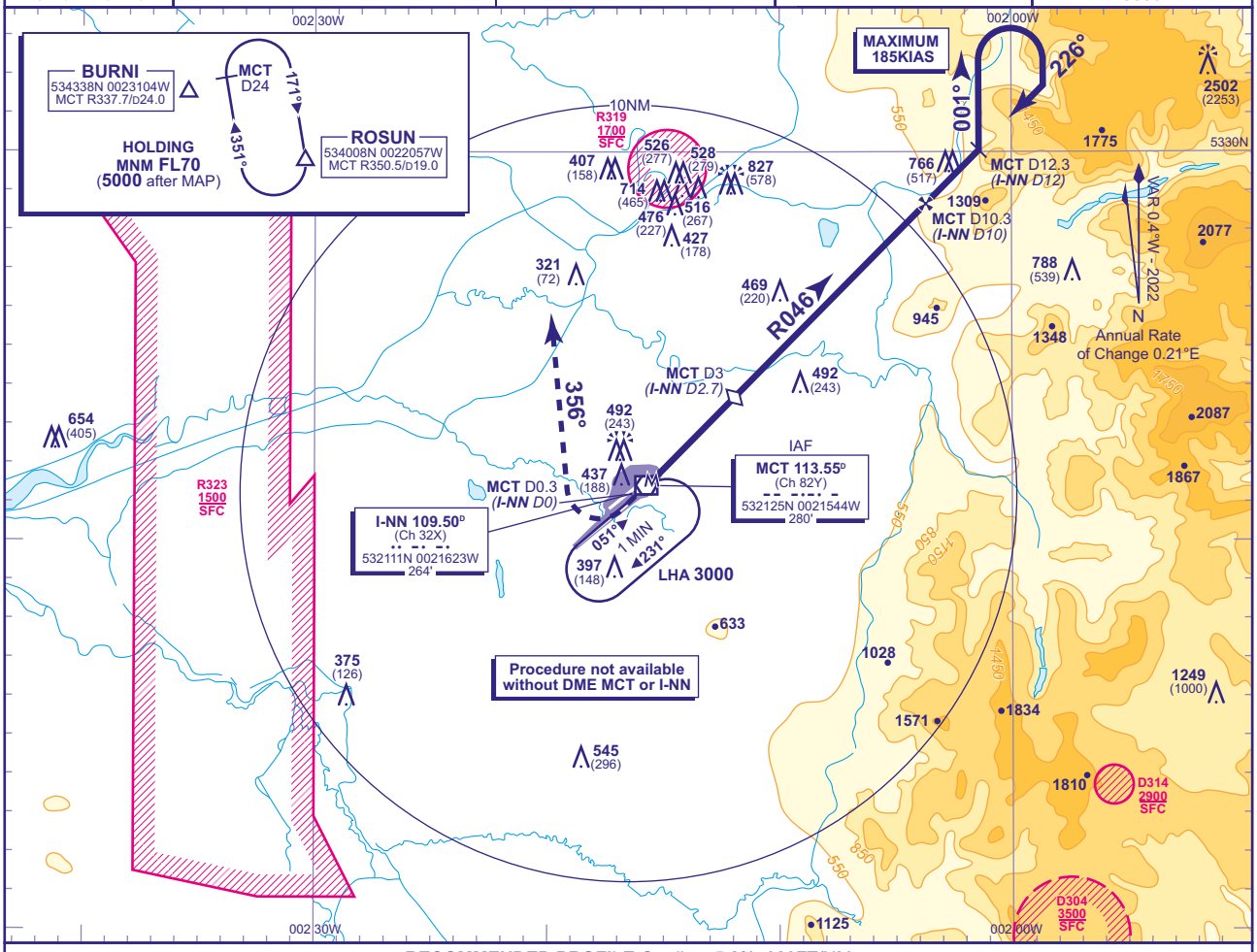
INSTRUMENT APPROACH CHART - ICAO

MANCHESTER VOR/DME RWY 23R
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257	TRANSITION ALTITUDE 5000
	121.355	MANCHESTER DIRECTOR	THR ELEVATION	249	
TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION 2502 AMSL (2253) (ABOVE THR)		
	121.855, 121.705	MANCHESTER GROUND			
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC		



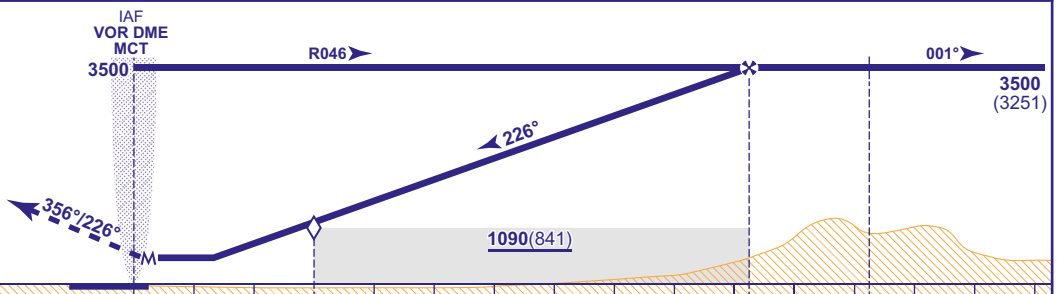
RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME MCT(I-NN)	9(8.7)	8(7.7)	7(6.7)	6(5.7)	5(4.7)	4(3.7)	3(2.7) **(SDF)**	2(1.7)
ALT(HGT)	**3080**(2831)	**2760**(2511)	**2440**(2191)	**2120**(1871)	**1800**(1551)	**1480**(1231)	**1160**(911)	**840**(591)

MAPt MCT DME 0.3/ I-NN DME ZERO (THR RWY 23R)

Climb to **3500** - straight ahead until passing **750** or MCT DME 0.3 (I-NN DME ZERO) inbound, whichever is later, then turn right onto track 356° then as directed.

RCF: See note 1 below.



DME MCT reads 0.3NM at THR RWY 23R
(***DME I-NN*** *zero ranged to THR RWY 23R)*

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	**Procedure**	**690**(441)	**690**(441)	**690**(441)	**690**(441)		**FT/MIN**	850	750	640	530	430
VM(C)OCA (OCH AAL)	**Total Area**	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)							

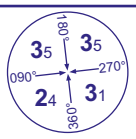
NOTE 1 In the event of RCF follow the standard MAP on to track 356°. At MCT DME 10 turn direct to BURNI (MCT R338/MCT DME 24) climbing to **5000** to enter the ROSUN hold. Aircraft unable to make **3500** before MCT DME 10, commence climbing turn left to **3500** at MCT DME 10. At **3500** or above continue left turn and proceed direct to BURNI.
2 DME I-NN may be used if DME MCT is not available.
3 FAT offset 5° from RWY C/L and crosses RWY C/L 1.3NM before THR RWY 23R.
4 Procedure turns restricted to maximum 185KIAS.

CHANGE (2/25): RESTRICTED AREA R323 ADDED.

AERO INFO DATE 09 DEC 24 AD 2-EGCC-8-12

INSTRUMENT APPROACH CHART - ICAO

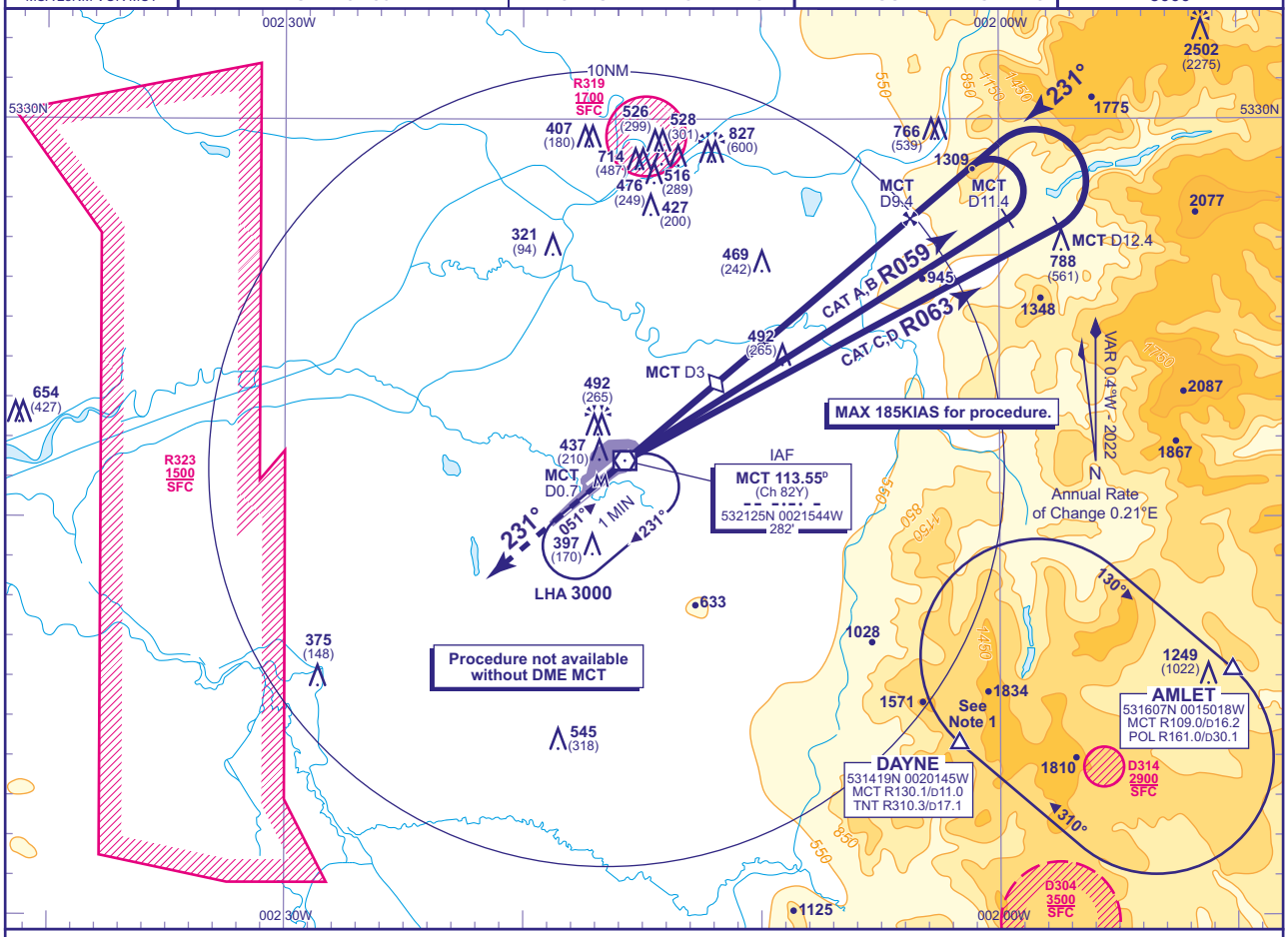
MANCHESTER VOR/DME RWY 23L
(ACFT CAT A,B,C,D)



MSA 25NM VOR MCT

APP	118.580, 135.005	MANCHESTER RADAR		AD ELEVATION	257
	121.355	MANCHESTER DIRECTOR		THR ELEVATION	227
TWR	118.630, 119.405	MANCHESTER TOWER		OBSTACLE ELEVATION	
	121.855, 121.705	MANCHESTER GROUND		2502 AMSL (2275) (ABOVE THR)	
ARRIVAL ATIS	128.180	MANCHESTER INFORMATION		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**



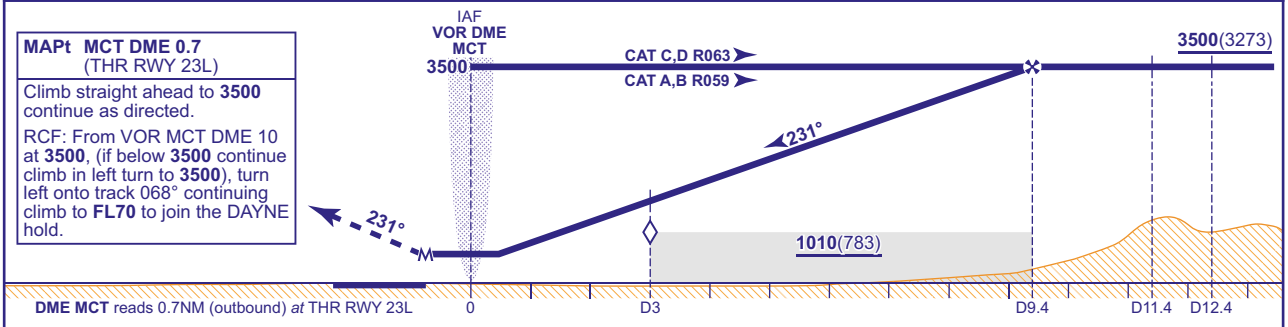
RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME MCT	9	8	7	6	5	4	3(SDF)	2	1
ALT(HGT)	**3370**(3143)	**3050**(2823)	**2730**(2503)	**2420**(2193)	**2100**(1873)	**1780**(1553)	**1460**(1233)	**1140**(913)	**820**(593)

MAPt MCT DME 0.7
(THR RWY 23L)

Climb straight ahead to **3500** continue as directed.

RCF: From VOR MCT DME 10 at **3500**, (if below **3500** continue climb in left turn to **3500**), turn left onto track 068° continuing climb to **FL70** to join the DAYNE hold.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**690**(463)	**690**(463)	**690**(463)	**690**(463)
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

NOTE 1 DAYNE HOLD:- Limiting outbound distance MCT DME 16/TNT DME 14. Minimum holding level is FL70.
2 Procedure restricted to maximum 185KIAS.

CHANGE (8/25): TNT VOR RECALIBRATED. DAYNE HOLD REVISED. AMLET/DAYNE WAYPOINT VOR RADIALS REVISED.

AERO INFO DATE 16 MAY 25

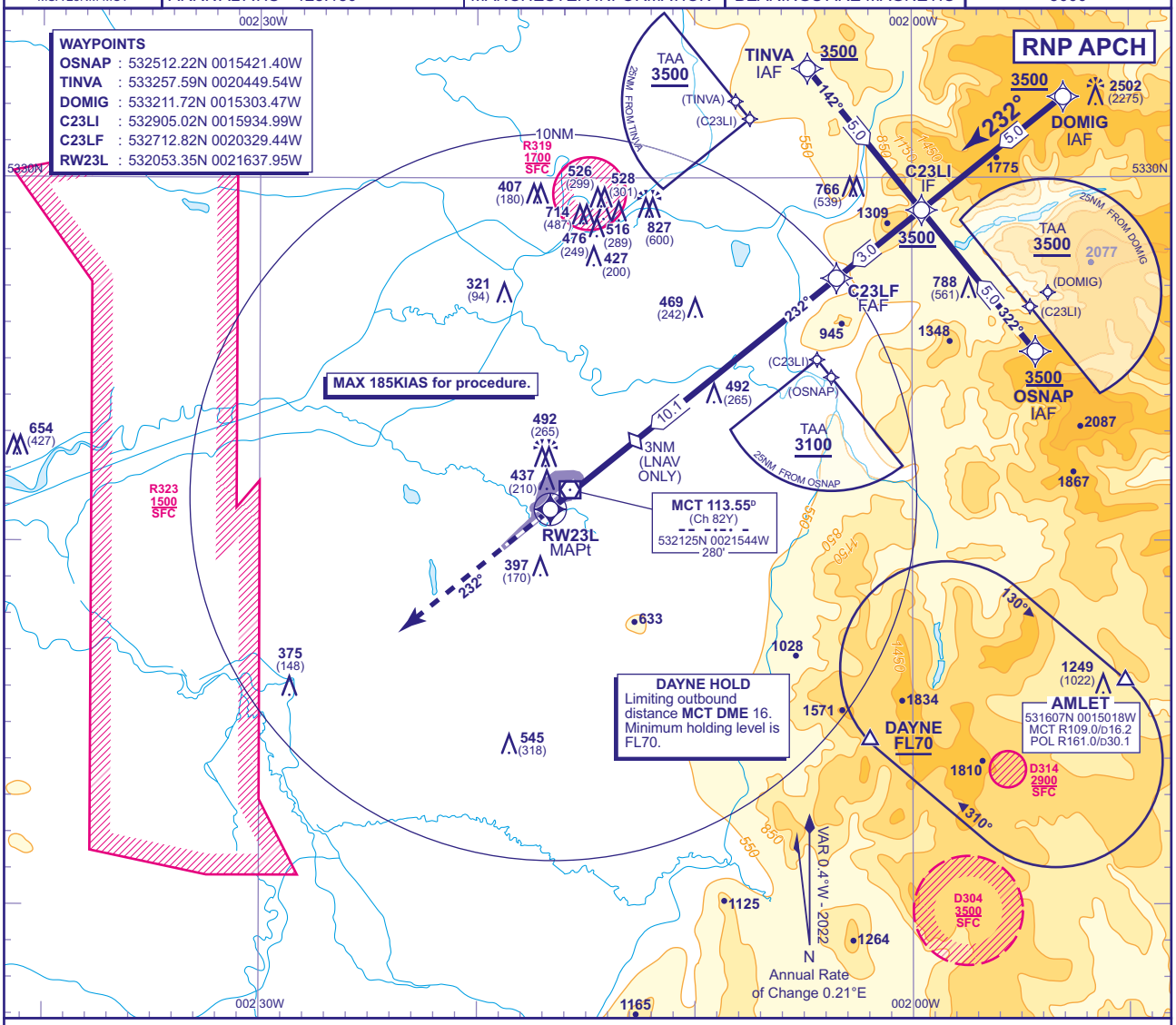
AD 2-EGCC-8-13

INSTRUMENT APPROACH CHART - ICAO

MANCHESTER
RNP
RWY 23L
(ACFT CAT A,B,C,D)

3⁵ MSA 25NM MCT	APP	118.580, 135.005	MANCHESTER RADAR	AD ELEVATION	257
		121.355	MANCHESTER DIRECTOR	THR ELEVATION	227
	TWR	118.630, 119.405	MANCHESTER TOWER	OBSTACLE ELEVATION 2502 AMSL (2275) (ABOVE THR)	
		121.855, 121.705	MANCHESTER GROUND		
	ARRIVAL ATIS	128.180	MANCHESTER INFORMATION	BEARINGS ARE MAGNETIC	

MIN TEMP -15°C
TRANSITION ALTITUDE 5000



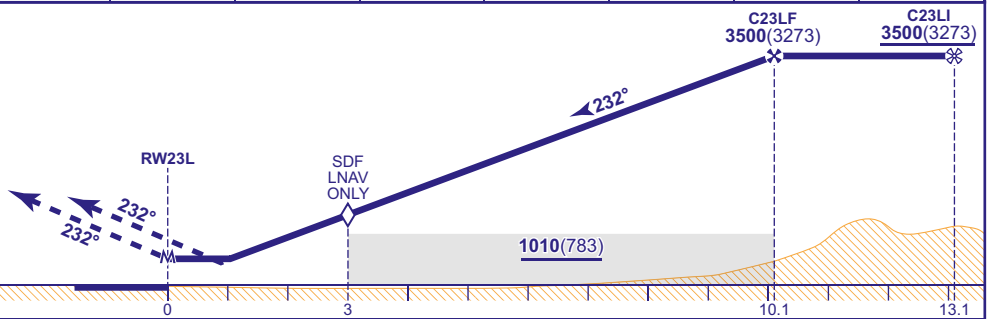
RECOMMENDED PROFILE VNAV VERTICAL PATH ANGLE 3.0°, 318FT/NM. **LNAV** Gradient 5.2%, 320FT/NM

NM to RW23L	10	9	8	7	6	5	4	3(LNAV SDF)	2
ALT(HGT)	**3460**(3233)	**3140**(2913)	**2820**(2593)	**2510**(2283)	**2190**(1963)	**1870**(1643)	**1550**(1323)	**1230**(1003)	**910**(683)

TCH 50

MAPt (LNAV):RW23L
Climb straight ahead to **3500** continue as directed.

RCF: From VOR MCT DME 10 at **3500**, (if below **3500** continue climb in left turn to **3500**) turn left onto track 068° continuing climb to **FL70** to join the DAYNE hold.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**680**(453)	**680**(453)	**680**(453)	**680**(453)		FT/MIN	850	740	640	530	420
	LNAV	**680**(453)	**680**(453)	**680**(453)	**680**(453)							
VM(C)OCA (OCH AAL)	Total Area	**790**(533)	**820**(563)	**1110**(853)	**1110**(853)							

NOTE 1 Pilots should 'Request RNP Approach' on first contact with Manchester Radar.

CHANGE (8/25): TNT VOR RECALIBRATED. DAYNE HOLD REVISED. AMLET WAYPOINT VOR RADIALS REVISED.

AERO INFO DATE 16 MAY 25 AD 2-EGCC-8-14

Instrument Approach Procedure Coding Tables

Manchester RNP RWY 23L - Instrument Approach Procedure via TINVA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23LR	001	IF	TINVA	-	-	-	3500	185	533257.59N 0020449.54W	IAF
R23LR	002	TF	C23LI	-	142° (141.23°)	RIGHT	3500	185	532905.02N 0015934.99W	IF / 13.1NM
R23LR	003	TF	C23LF	-	232° (231.39°)	-	3500	185	532712.82N 0020329.44W	FAF / 10.1NM
R23LR	004	TF	RW23L	Y	232° (231.25°)	-	-	-	532053.35N 0021637.95W	MAPt
R23LR	005	CA	-	-	232° (231.07°)	-	3500	-	-	-

Manchester RNP RWY 23L - Instrument Approach Procedure via DOMIG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23LC	001	IF	DOMIG	-	-	-	3500	185	533211.72N 0015303.47W	IAF
R23LC	002	TF	C23LI	-	232° (231.39°)	-	3500	185	532905.02N 0015934.99W	IF / 13.1NM
R23LC	003	TF	C23LF	-	232° (231.39°)	-	3500	185	532712.82N 0020329.44W	FAF / 10.1NM
R23LC	004	TF	RW23L	Y	232° (231.25°)	-	-	-	532053.35N 0021637.95W	MAPt
R23LC	005	CA	-	-	232° (231.07°)	-	3500	-	-	-

Manchester RNP RWY 23L - Instrument Approach Procedure via OSNAP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23LL	001	IF	OSNAP	-	-	-	3500	185	532512.22N 0015421.40W	IAF
R23LL	002	TF	C23LI	-	322° (321.26°)	LEFT	3500	185	532905.02N 0015934.99W	IF / 13.1NM
R23LL	003	TF	C23LF	-	232° (231.39°)	-	3500	185	532712.82N 0020329.44W	FAF / 10.1NM
R23LL	004	TF	RW23L	Y	232° (231.25°)	-	-	-	532053.35N 0021637.95W	MAPt
R23LL	005	CA	-	-	232° (231.07°)	-	3500	-	-	-

CHANGE (12/20): RNP REFERENCES ADDED. LEVEL CONSTRAINTS. TABLE TITLES.
AERO INFO DATE 18 MAY 20

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EGCB — MANCHESTER BARTON

EGCB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCB — MANCHESTER BARTON

EGCB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 532818N Long: 0022323W Mid-point of Runway 08R/26L
2	Direction and distance from city	5 NM W of Manchester.
3	Elevation / Reference temperature / Mean Low Temperature	73 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	168 FT
5	Magnetic Variation / Annual Change	0.49°W (2022) / 0.21°E
6	AD Administration Address Telephone E-mail address Web address	MANCHESTER BARTON AERODROME Barton Aerodrome , Liverpool Road, Eccles, Manchester, M30 7SA. Manchester Heliport, Liverpool Road, Eccles, Manchester, M30 7RU. 0161-789 1362 (Administration and Operations) ops@bartonaerodrome.co.uk http://www.bartonaerodrome.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	VFR (See AD 2.22).

EGCB AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Thu 0900-1800 (0800-1700) or SS, whichever is earlier; Fri-Sun 0900-1900 (0800-1800) or SS, whichever is earlier; and by arrangement.
2	Customs and immigration	By arrangement. Customs: 4 hours notice required inbound/24 hours outbound. Immigration: 24 hours inbound/outbound. CTU (Special Branch): 24 hours inbound/outbound.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As AD hours. Website: https://www.egcbatis.co.uk
7	ATS	As AD hours.
8	Fuelling	Mon-Thu 0845-1745 (0745-1645) or SS-15, whichever is earlier; Fri-Sun 0845-1845 (0745-1745) or SS-15, whichever is earlier; and by arrangement.
9	Handling	By arrangement for helicopters using Manchester Heliport facility.
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGCB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 F-34, AVGAS 100LL Oil: 15/50, 80, Multigrade (W)80, 100, (W)100
3	Fuelling facilities/capacity	Aerodrome Fixed Bowser AVGAS 100LL 28,500 LT. Heliport Fixed Bowser AVTUR JET-A1 18,000 LT. Mobile Bowser AVTUR JET-A1 20,000 LT (Pressurised AVTUR JET-A1 by arrangement).
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited by prior arrangement.
6	Repair facilities for visiting aircraft	Westair Aircraft Maintenance, Tel: 0161-787 8811.
7	Remarks	

EGCB AD 2.5 PASSENGER FACILITIES

1	Hotels	In vicinity.
2	Restaurants	Cafe/Bar.
3	Transportation	Taxis, Buses. Nearest Railway Station: Eccles: 2.8 miles.
4	Medical facilities	Limited First Aid.
5	Bank and Post Office	Bank within 2.0 miles. Post Office within 1.5 miles.
6	Tourist Office	
7	Remarks	Transport arrangements can be made via aerodrome operations.

EGCB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category A2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited
4	Remarks	

EGCB AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGCB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGCB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Wind direction indicators - 532812.94N 0022330.90W (LGTD); 532815.83N 0022259.73W.

EGCB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCB1258) 20/APPROACH 02/ TAKE-OFF	TREE	532835.62N 0022313.08W	115 FT	42 FT	No	
(EGCB1544) 26L/APPROACH 08R/ TAKE-OFF	TREE	532822.28N 0022245.87W	141 FT	73 FT	No	
(EGCB1467) 26R/APPROACH 08L/ TAKE-OFF	TREE	532822.05N 0022254.48W	116 FT	48 FT	No	
(EGCB1346) 26R/APPROACH 08L/ TAKE-OFF	HEDGE	532820.74N 0022305.30W	76 FT	9 FT	No	
(EGCB1360) 26L/APPROACH 08R/ TAKE-OFF	HEDGE	532819.73N 0022304.18W	78 FT	8 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCB1413) 26L/APPROACH 08R/ TAKE-OFF	TREE	532818.96N 0022259.75W	89 FT	25 FT	No	
(EGCB1482) 26L/APPROACH 08R/ TAKE-OFF	TREE	532818.65N 0022252.42W	109 FT	42 FT	No	
(EGCB1425) 26L/APPROACH 08R/ TAKE-OFF	TREE	532818.56N 0022258.52W	93 FT	29 FT	No	
(EGCB1385) 26L/APPROACH 08R/ TAKE-OFF	HEDGE	532818.14N 0022302.04W	78 FT	9 FT	No	
(EGCB1538) 08L/APPROACH 26R/ TAKE-OFF	TREE	532817.10N 0022356.34W	127 FT	59 FT	No	
(EGCB1044) 08L/APPROACH 26R/ TAKE-OFF	TREE	532816.93N 0022358.32W	123 FT	55 FT	No	
(EGCB1179) 20/TAKE-OFF	TREE	532802.84N 0022329.21W	110 FT	51 FT	No	
(EGCB1177) 20/TAKE-OFF	TREE	532801.27N 0022329.72W	120 FT	50 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCB1163)	PYLON	532920.03N 0022332.46W	241 FT	171 FT	No	
(EGCB1102)	PYLON	532912.60N 0022348.55W	208 FT	137 FT	No	
(EGCB1032)	PYLON	532905.71N 0022403.64W	205 FT	135 FT	No	
(EGCB1017)	PYLON	532858.35N 0022419.33W	214 FT	144 FT	No	
(EGCB1014)	PYLON	532851.95N 0022433.01W	221 FT	151 FT	No	
(EGCB1011)	PYLON	532842.37N 0022438.84W	256 FT	177 FT	No	
(EGCB1530)	BUILDING	532837.08N 0022120.28W	192 FT	107 FT	No	
(EGCB1476)	TREE	532831.63N 0022252.89W	173 FT	103 FT	No	
(EGCB1020)	TREE	532830.78N 0022412.03W	176 FT	97 FT	No	
(EGCB1008)	PYLON	532829.83N 0022446.13W	254 FT	173 FT	No	
(EGCB1007)	PYLON	532820.14N 0022451.65W	234 FT	153 FT	No	
(EGCB1006)	PYLON	532810.59N 0022457.00W	248 FT	165 FT	No	
(EGCB1009)	PYLON	532800.84N 0022445.66W	254 FT	173 FT	No	
(EGCB1529)	BUILDING	532758.81N 0022139.94W	223 FT	147 FT	Yes Solid Red	
(EGCB1531)	BUILDING	532757.45N 0022053.05W	251 FT	176 FT	No	
(EGCB1013)	PYLON	532750.85N 0022433.59W	250 FT	173 FT	No	
(EGCB1528)	PYLON	532747.19N 0022143.37W	174 FT	110 FT	No	
(EGCB1016)	PYLON	532740.83N 0022421.47W	241 FT	168 FT	No	
(EGCB1021)	PYLON	532730.74N 0022409.36W	239 FT	172 FT	No	
(EGCB1027)	PYLON	532721.32N 0022405.41W	259 FT	198 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCB1034)	PYLON	532712.92N 0022401.97W	253 FT	193 FT	No	

EGCB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	As per operational hours.
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing and website: https://www.egcbatis.co.uk.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. English.
7	Charts and other information available for briefing or consultation	Forms 214, 215 and met warnings.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	MANCHESTER BARTON
10	Additional information (limitation of service, etc.)	Unofficial meteorological observations provided by FIS during ATS hours.

EGCB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
02	014.61°	518 x 32 M	RWY surface: Grass	532812.07N 0022322.47W 168.1 FT	THR 68.0 FT	RWY 02 1:489 RWY 20 -1:489
20	194.61°	518 x 32 M	RWY surface: Grass	532826.13N 0022316.32W 168.1 FT	THR 71.5 FT	RWY 02 1:489 RWY 20 -1:489
08L	082.81°	641 x 30 M	RWY surface: Grass	532817.13N 0022343.35W 168.1 FT	THR 68.8 FT	RWY 08L -1:4381 RWY 26R 1:4381
26R	262.82°	641 x 30 M	RWY surface: Grass	532819.73N 0022308.86W 168.1 FT	THR 69.4 FT	RWY 08L -1:4381 RWY 26R 1:4381
08R	082.83°	626 x 32 M	RWY surface: Grass	532816.40N 0022339.81W 168.1 FT	THR 68.2 FT	RWY 08R 1:978 RWY 26L -1:978
26L	262.84°	626 x 32 M	RWY surface: Grass	532818.92N 0022306.16W 168.1 FT	THR 70.3 FT	RWY 08R 1:978 RWY 26L -1:978
13	134.18°	398 x 32 M	RWY surface: Grass	532825.19N 0022320.42W 168.1 FT	THR 72.6 FT	RWY 13 -1:311 RWY 31 1:311
31	314.19°	398 x 32 M	RWY surface: Grass	532816.22N 0022304.95W 168.1 FT	THR 68.4 FT	RWY 13 -1:311 RWY 31 1:311

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		578 x 60 M				RWY 02 Threshold displaced by 69 M.
		578 x 60 M				RWY 20
		701 x 60 M				RWY 08L
		701 x 60 M				RWY 26R
		686 x 60 M				RWY 08R
		686 x 60 M				RWY 26L
		458 x 60 M				RWY 13
		458 x 60 M				RWY 31

EGCB AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08L	641 M	641 M	641 M	641 M	
26R	641 M	641 M	641 M	641 M	
08R	626 M	626 M	626 M	626 M	
26L	626 M	626 M	626 M	626 M	
02	518 M	518 M	518 M	449 M	
20	518 M	518 M	518 M	518 M	
13	398 M	398 M	398 M	398 M	
31	398 M	398 M	398 M	398 M	

EGCB AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGCB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 532814.95N 0022313.66W, 532814.92N 0022313.76W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	Portable LED runway lights on 08R/26L outside of AD hours.

EGCB AD 2.16 HELICOPTER LANDING AREA

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EGCB AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
MANCHESTER/BARTON ATZ 532618N 0022327W thence clockwise by the arc of a circle radius 2 NM centred on 532818N 0022323W to 532749N 0022008W - 532638N 0022258W - 532618N 0022327W	Upper limit: 2000 FT AGL Lower limit: SFC	G	BARTON INFORMATION English	5000 FT		Note: Airspace Classification within Manchester CTA class D.

EGCB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	BARTON INFORMATION	120.255 DOC 10 NM/3000 FT.			Mon-Thu 0900-1800 (0800-1700) or SS, whichever is earlier; Fri-Sun 0900-1900 (0800-1800) or SS, whichever is earlier; and by arrangement.	ATZ hours coincident with AFIS hours.

EGCB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGCB AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Fixed wing twin engine aircraft and fixed wing aircraft over 1500 KG MTOW must obtain briefing via telephone with ATS prior to flight.
b) During adverse weather conditions, the AD and associated services may be withdrawn, the aerodrome becoming unavailable during these times.
c) High visibility jackets recommended whilst airside.
d) A full copy of the Aerodrome Rules and Procedures (Pilot Handbook) is available on the aerodrome website.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Pilots should exercise caution as runway and taxiway surfaces undulate in places and may not be suitable for all aircraft types/weights. Surface may become soft during prolonged periods of wet weather. Further information may be sought by contacting the ATS.
b) There are 35 FT high lamp standards on the A57 road to the Southeast and Southwest of the aerodrome.
c) Red/White Marker boards or non-standard markings (cones) may be used to indicate areas of soft ground. Pilots must exercise extreme caution as not all soft areas may be indicated.
d) Bird Hazard: Herons regularly flying across the aerodrome at heights between 100 and 500 feet. Additionally, Bird activity (Gulls and Pigeons) increases during periods of wet weather and grass seeding. All Bird Strikes must be reported.
e) Windshear and Turbulence can be expected on approaches to all runways. In particular, conditions may be more prominent during the following conditions:

i. Runway 26L/26R Approach and 08L/08R Climbout - Additional turbulence/windshear during strong winds (any direction) and/or high temperatures.
ii. Runway 20 Approach - Additional turbulence/windshear particularly during southeast to south winds.
iii. Runway 31 Approach - Additional turbulence /windshear during strong winds (any direction) and when crossing dual carriageway (A57) prior to the threshold.
iv. Runway 02 Approach - Additional turbulence/windshear particularly when crossing dual carriageway (A57) prior to the threshold.

f) Taxilane adjacent to AVGAS fuel installation has a reduced clearance of 10 M (from taxilane centre-line to fuel pumps).
g) Aerodrome is used unlicensed by helicopters H24.
h) Category A Police and Air Ambulance helicopter flights take place H24 from the Aerodrome.
i) Paramotors operate non-radio from a site approximately 2.5 NM West of the airfield during daylight hours.
j) Runway 08R/26L transitional surface is impinged by Control Tower building by 0.72 M.

5 HELICOPTER OPERATIONS

a) Helicopter circuit height 500 FT.
b) Helicopter circuit training is flown in accordance with the chart on page EGCB 4-1.
c) Helicopters must not fly above 500 FT as shown on page EGCB-4-1 unless practicing emergency procedures and only once ATS has been informed.
d) Helicopters are to arrive via the specific entry/exit point as displayed on page EGCB 4-1, reporting prior to reaching and at the appropriate point. Pilots must inform ATS if performing a non-standard join prior to entering the ATZ.
e) Helicopters must ensure that they give adequate safety clearance (minimum 50 M) with consideration for downwash when operating in the hover close to runways, taxilanes and parked aircraft.
f) Helicopter Fuelling

i. JET A1 – Aerodrome facility – A mobile tanker is available for gravity-fed and pressurised fuelling:

1. A landing pad is available next to the main apron.
2. Fuelling may take place on the East Apron.

ii. AVGAS – Helicopters should position on pads 1-3 as directed by ATS ensuring safe separation from adjacent helicopters. Caution is advised when manoeuvring in this area close to parked aircraft.

g) Manchester Heliport

i. A dedicated heliport facility known as Manchester Heliport is located on the SW corner of the Aerodrome.
ii. The heliport is not available for flights that require the use of a licensed aerodrome.
iii. The heliport apron is floodlit at night.
iv. Use of the heliport is subject to PPR. Terms and conditions available on request.
v. JET A1 Heliport facility – A landing apron with two marked pads and a remote third pad are adjacent to the fuel facility. The hose length allows for the fuelling of helicopters parked on all three pads.

1. The marked pads act as a visual guide to ensure adequate hose reach only.
2. The marked pads do not guarantee any clearance from helicopters parked adjacent. The pilot remains responsible for ensuring safe operation from adjacent helicopters.

6 USE OF RUNWAYS

a) Computer ATIS.

i. A Computer ATIS Display is provided. This provides the following information via https://www.egcbatis.co.uk:

Runway in use — QFE / QNH — Unofficial Weather — Runway State — Briefing Notes.

ii. Prior to departure, pilots should obtain the current airfield information from the Computer ATIS Display.
iii. On initial RTF call, pilots should advise the information received and the appropriate pressure (QFE/QNH).

b) Runway availability subject to suitable surface conditions as determined by Duty FISO. Information available from the ATS.

7 TRAINING

Not applicable

EGCB AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots are to avoid overflying the cemetery to the Northeast of the aerodrome.
b) Helicopters should avoid overflying the built up areas South and East of the airfield, indicated at AD 2.24.
c) Climbing turns after take off should not normally be commenced below a height of 500 FT AGL except as indicated at c(i). Should pilots wish to make an early turn below 500 FT AGL on take-off, this may be permitted for safety reasons only. In this case, the ATS must be informed prior to commencement of the take-off roll.

i. To minimise local noise disturbance when departing from Runway 20 and when safe to do so, upon reaching the Manchester Ship Canal aircraft should commence a right turn onto crosswind to avoid overflying the residential areas of Flixton and Irlam.

EGCB AD 2.22 FLIGHT PROCEDURES

1 COMMUNICATIONS AND SSR

a) Aircraft in communication with Barton ATS may be allocated a conspicuity squawk of 7365. Aircraft **must not** select this squawk unless instructed to do so by ATS.
b) Allocation of this conspicuity squawk does not constitute any radar service.
c) Non radio aircraft not accepted.
d) Aircraft operating VFR or Special VFR in the Manchester CTR inbound to Barton must not assume that co-ordination has taken place to allow aircraft to enter the Barton ATZ. Manchester Radar will, whenever possible, permit an aircraft to leave the frequency temporarily to establish two-way communication with Barton. If this is not possible, aircraft must leave the CTR clear of the Barton ATZ and route to Barton from outside controlled airspace.
e) Pilots requiring a VFR or Special VFR clearance to transit the Manchester CTR must remain clear of controlled airspace until a clearance has been obtained by RTF from Manchester Radar.

2 FIXED WINGED

a) Fixed winged circuit height is 1000 FT (Barton QFE).
b) Fixed winged standard join is overhead at 1700 FT Barton QFE. Pilots must inform ATS if performing a non-standard join prior to entering the ATZ.
c) Variations on circuit direction are permitted for training, weather or operational requirements providing the ATS is informed of the pilots intentions.
d) Circuit directions: Runways 13, 20, 26L, 26R - RH; Runways 02, 08L, 08R and 31 - LH.
e) Orbits within the circuit are not permitted unless required for safety reasons.
f) Visitors can expect to be parked on the West Apron but only with ATS instruction. Refer to AD 2-EGCB-2-1.
g) Go-Arounds

i. Approaches to runways must not be continued below 300 FT AAL if:

1. The approach ahead or runway is occupied or obstructed by aircraft, vehicles or personnel.

h) Go-Around Procedure (at or above 300 FT AAL)

i. To initiate the go-around, manoeuvre the aircraft to the dead side of the runway, climb parallel to the runway in use, and climb to circuit height (1000 FT AAL) before turning crosswind.
ii. Do not climb initially above 600 FT AAL until you have passed the upwind end of the runway in use. This ensures separation between you and the aircraft joining overhead, flying crosswind at circuit height.
iii. Exercise caution when low flying in the go-around over aircraft on the ground, including helicopters, personnel, vehicles and control line model flying.
iv. Ensure aircraft ahead are kept in sight.
v. Caution, helicopter operations up to a maximum of 500 FT AAL are permitted on both the live and dead side.

i) Pilots must not carry out 'run and break' manoeuvres within the circuit.
j) As part of our noise abatement and bird avoidance procedures, long low, or fast intentional go-arounds/fly-bys along the runway must not be carried out. Pilots having to go-around because of runway occupation must not fly low over landing aircraft.
k) IFR Procedures

i. The aerodrome does not have any instrument or approach/navigational aids. All arrivals and departures must operate under VFR / VMC only.
ii. Pilots flying IFR should plan routings that avoid controlled airspace and for arrivals must plan a suitable alternative in the event that flight conditions preclude flight in VMC on arrival.

3 HELICOPTER PROCEDURES

a) **Helicopter Arrival Procedures** - Refer to page EGCB-4-1

i. Astley or Worsley: Pilots should enter the published helicopter circuit (not above 500 FT AGL) or as requested by ATS.
ii. Irlam Bridge: Pilots should route along the Manchester Ship Canal (not above 500 FT AGL within 1 NM of the aerodrome) and follow the published procedure on page EGCB-4-1 or as requested by ATS.

Note: *Subject to circuit traffic and to aid traffic separation ATS may request an alternative routing.*

iii. M60/Junc 9: Pilots should route from M60/Junc 9 (not above 500 FT AGL once within 1 mile of the aerodrome), and then proceed to Runway 02, 31 or 26 threshold as requested by ATS.

b) **Helicopter Departure Procedures** (Refer to page EGCB-4-1)

i. Helicopters must request rotor start from ATS.
ii. Helicopters must not lift until positive instruction has been obtained.
iii. Helicopters should conform to the published helicopter circuit on departure.
iv. Subject to traffic, helicopters may be requested to depart direct or via a specified runway.
v. Helicopters must not overfly the Southwest corner of the airfield below 200 FT due to Control Line Model Flying which takes place.
vi. South East Departures via M60/Junc 9: Pilots should request clearance to enter the Manchester CTR from ATS prior to departure. Pilots should remain on 120.255 MHz until 1 mile South East of the aerodrome (not above 500 FT AGL).

c) **Helicopter Hover Training**

i. Two Helicopter Training Areas (HTA North and HTA West) are established for the purposes of helicopter hover training. Refer to EGCB-2-1.
ii. Helicopters must not leave the confines of any HTA without approval from ATS.

d) **Helicopter Aiming Points**

i. Two helicopter aiming points are established named ‘Heli West’ and Heli East’. These points are marked by a white triangle and are intended for use by helicopters conducting hover training and/or transition manoeuvres to aid separation between multiple helicopters conducting similar exercises.
ii. A hover square is established for specific hover training. This point is not to be used as an aiming point.
iii. Helicopters shall announce their intention to ATS to operate at one of the helicopter aiming points and must only leave the aiming point when in receipt of a positive taxi instruction.
iv. Helicopters engaged in auto-rotations should conduct the manoeuvre into a vacant aiming point, advising ATS on each occasion prior to climbing and prior to commencement.
v. Approaches to Runway 31 threshold are not permitted whilst the threshold of Runway 31 is used for aircraft parking.

e) **Arrivals and Departures**

i. All arrivals and departures should be made using procedures outlined in paragraphs a and b above.
ii. Helicopters positioning to/from the Heliport Apron should route via D1 Hold, following the Air-Taxiway to the Heliport. The Air-Taxiway is marked by green/yellow linlaners and is not suitable for ground taxi.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGCB AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGCB AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCB-2-1
MANCHESTER BARTON ATZ, HELICOPTER ENTRY/EXIT POINTS and CIRCUITS
AD 2.EGCB-4-1

EGCB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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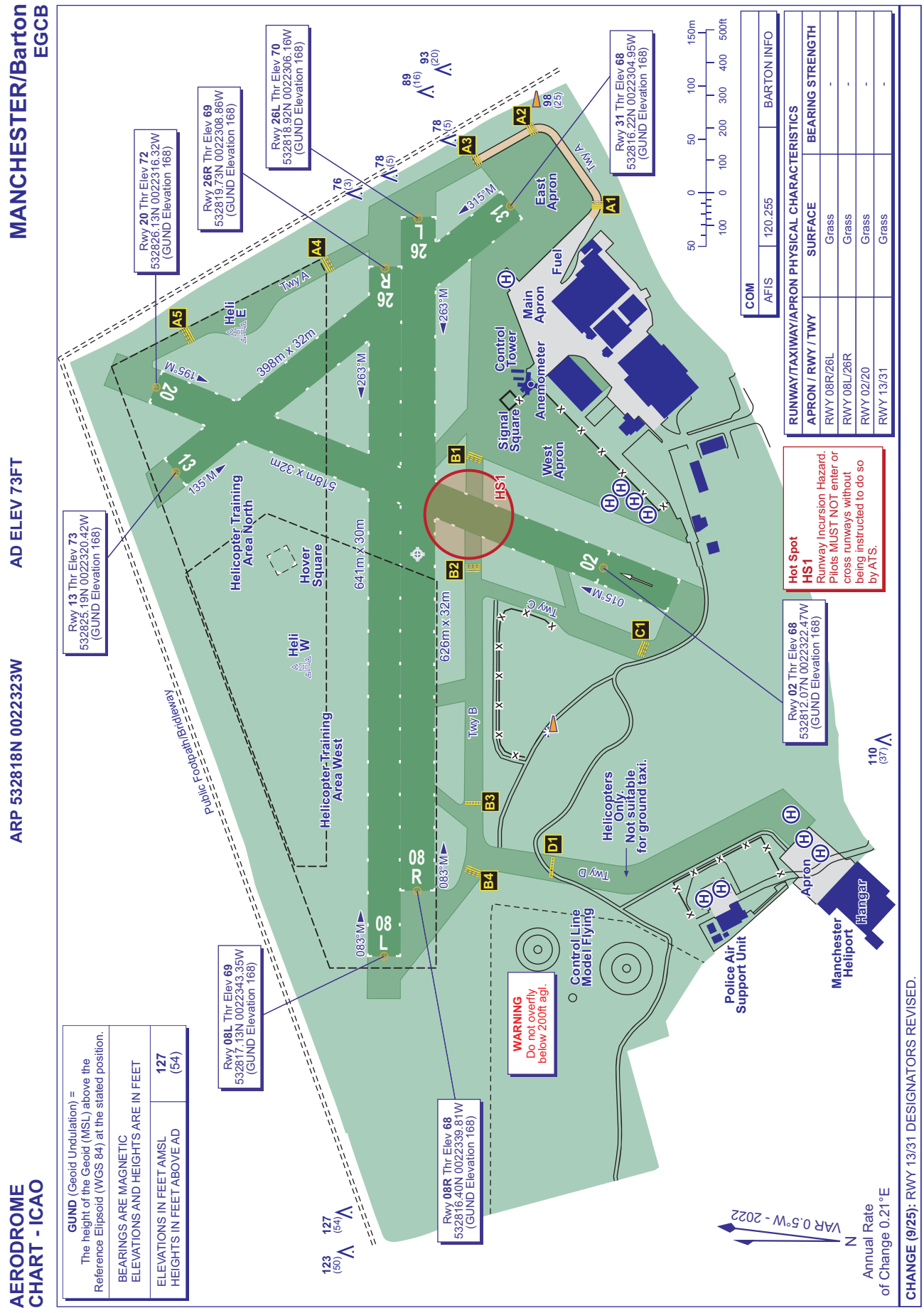
MANCHESTER/Barton
EGCB
AERODROME
CHART - ICAO
ARP 532818N 0022323W
AD ELEV 73FT
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
127 (54)
Rwy 20 Thr Elev 72 532826.13N 0022316.32W (GUND Elevation 168)
Rwy 26L Thr Elev 70 532818.92N 0022306.16W (GUND Elevation 168)
Rwy 26R Thr Elev 69 532819.73N 0022308.86W (GUND Elevation 168)
Rwy 31 Thr Elev 68 532816.22N 0022304.95W (GUND Elevation 168)
Rwy 13 Thr Elev 73 532825.19N 0022320.42W (GUND Elevation 168)
Rwy 08L Thr Elev 69 532817.13N 0022343.35W (GUND Elevation 168)
Rwy 08R Thr Elev 68 532816.40N 0022339.81W (GUND Elevation 168)
Rwy 02 Thr Elev 68 532812.07N 0022322.47W (GUND Elevation 168)
398m x 32m
518m x 32m
641m x 30m
626m x 32m
Helicopter Training Area North
Hover Square
Helicopter-Training Area West
Heli E
Heli W
Public Footpath(Bridleway)
Control Tower
Main Apron
Fuel
Anemometer
Signal Square
West Apron
East Apron
Twy A
Twy B
Twy C
Twy D
Helicopters Only. Not suitable for ground taxi.
Control Line Model Flying
WARNING Do not overfly below 200ft agl.
Police Air Support Unit
Manchester Heliport
Hangar
Apron
Hot Spot HS1
Runway Incursion Hazard. Pilots MUST NOT enter or cross runways without being instructed to do so by ATS.
COM
AFIS 120.255 BARTON INFO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY | SURFACE | BEARING STRENGTH
RWY 08R/26L | Grass | -
RWY 08L/26R | Grass | -
RWY 02/20 | Grass | -
RWY 13/31 | Grass | -
VAR 0.5°W - 2022
Annual Rate of Change 0.21°E
CHANGE (9/25): RWY 13/31 DESIGNATORS REVISED.
AERO INFO DATE 13 JUN 25
AD 2-EGCB-2-1

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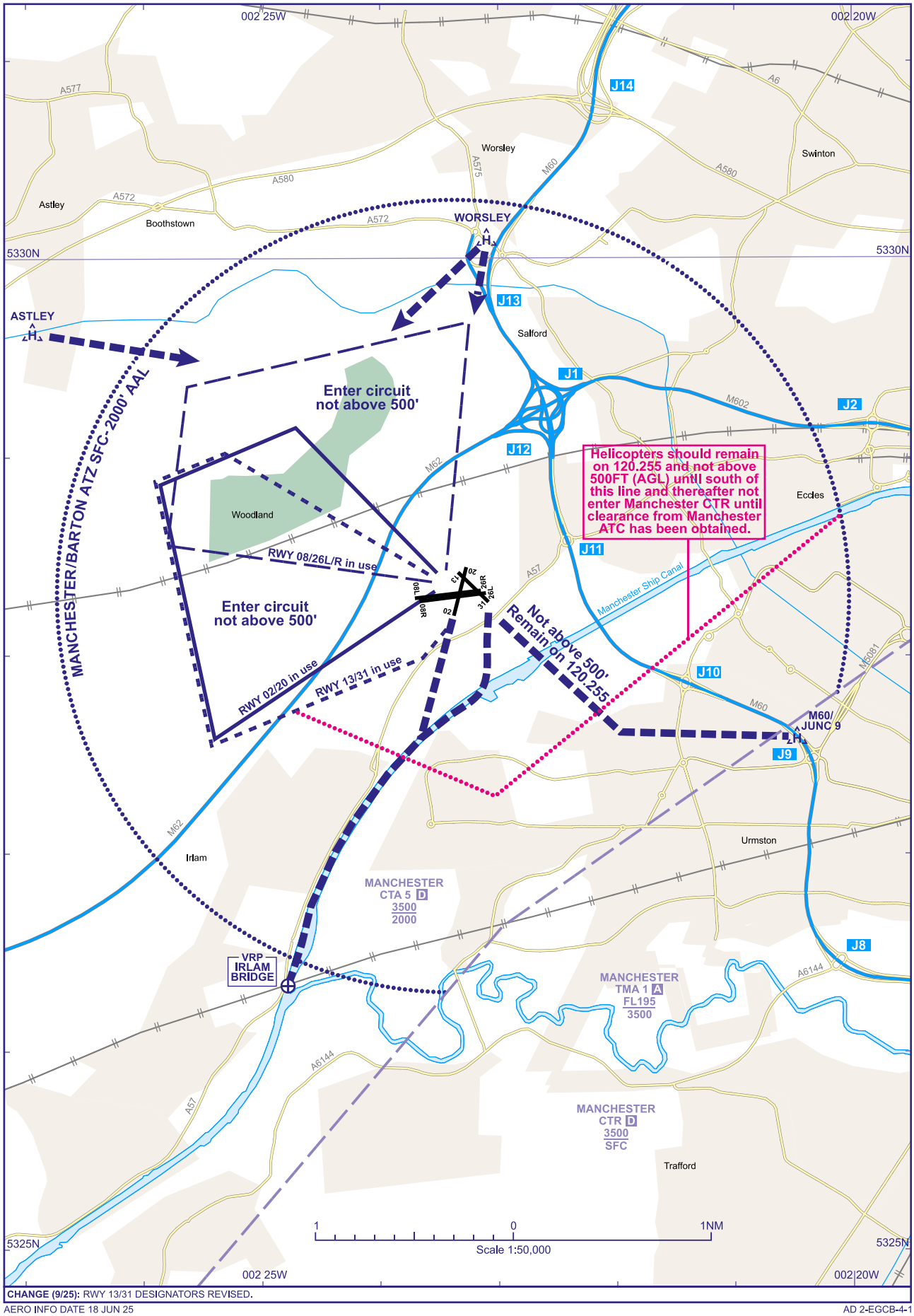
MANCHESTER BARTON ATZ, HELICOPTER ENTRY/EXIT POINTS AND CIRCUITS

MANCHESTER BARTON



CHANGE (9/25): RWY 13/31 DESIGNATORS REVISED.

AERO INFO DATE 18 JUN 25

AD 2-EGCB-4-1

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EGNF — NETHERTHORPE

EGNF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNF — NETHERTHORPE

EGNF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 531901N Long: 0011146W Mid Point of Runway 06/24
2	Direction and distance from city	2 NM W by N of Worksop.
3	Elevation / Reference temperature / Mean Low Temperature	248 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.03°W (2022) / 0.20°E
6	AD Administration Address Telephone E-mail address Web address	SHEFFIELD AERO CLUB. Netherthorpe Aerodrome, Thorpe Salvin, Worksop, Nottinghamshire, S80 3JQ 01909-475233 info@sheffieldaeroclub.net https://www.sheffieldaeroclub.net
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGNF AD 2.3 OPERATIONAL HOURS

1	AD Administration	Tue-Sun 0900-1700 (0800-1600) or SS whichever is the earlier; Mon by arrangement only.
2	Customs and immigration	General Aviation Report (GAR) form submission to National Co-ordination Unit (NCU) is required in advance to notify HMRC Border Force and Police. https://www.submit-general-aviation-report.service.gov.uk.
3	Health and sanitation	
4	AIS Briefing Office	Self-briefing in Control Office.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD Hours. See also AD 2.18
8	Fuelling	Self-service as AD hours. See also AD 2.18.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR by telephone.

EGNF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL.
3	Fuelling facilities/capacity	Self-service, payment by credit card machine.
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	On airfield licenced engineering facility, Dukeries Aviation Ltd; Tel: 01909-600231.
7	Remarks	

EGNF AD 2.5 PASSENGER FACILITIES

1	Hotels	Travelodge 4 miles from airfield.
2	Restaurants	Café on airfield.
3	Transportation	Taxi services available.
4	Medical facilities	Basic first aid trained Initial Emergency Response personnel on site.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGNF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGNF AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGNF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGNF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDIs: 531901.56N 0011136.15W - 531858.17N 0011140.54W.

EGNF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNF1593) 18/APPROACH 36/ TAKE-OFF	TREE	531924.28N 0011151.72W	346 FT		No	
(EGNF1637) 24/APPROACH 06/ TAKE-OFF	TREE	531909.28N 0011130.80W	277 FT		No	
(EGNF1546) 06/APPROACH 24/ TAKE-OFF	TREE	531857.16N 0011158.82W	279 FT		No	
(EGNF1320) 06/APPROACH 24/ TAKE-OFF	ROAD 4 8M	531854.49N 0011204.00W	276 FT		No	
(EGNF1325) 06/APPROACH 24/ TAKE-OFF	ROAD 4 8M	531854.02N 0011159.41W	270 FT		No	
(EGNF1330) 36/APPROACH 18/ TAKE-OFF	ROAD 4 8M	531853.62N 0011144.70W	255 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGNF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	
2	Hours of service MET Office outside hour	
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing in Control Office.
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGNF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
06	055.40°	573 x 36 M	RWY surface: Grass	531857.45N 0011154.83W	THR 248.1 FT	
24	235.41°	573 x 36 M	RWY surface: Grass	531903.60N 0011139.94W	THR 223.6 FT	
18	174.80°	388 x 18 M	RWY surface: Grass	531906.08N 0011144.75W	THR 224.5 FT	
36	354.80°	388 x 18 M	RWY surface: Grass	531856.73N 0011143.33W	THR 233.7 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 06 Threshold displaced by 132 M.
						RWY 24 Threshold displaced by 106 M.
						RWY 18 Threshold displaced by 28 M.
						RWY 36 Threshold displaced by 70 M.

EGNF AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	467 M	467 M	533 M	401 M	
24	441 M	441 M	536 M	430 M	
18	318 M	318 M	380 M	353 M	
36	361 M	361 M	378 M	308 M	

EGNF AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGNF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 531901.18N 0011136.46W - 531901.85N 0011137.72W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGNF AD 2.16 HELICOPTER LANDING AREA

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EGNF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
NETHERTHORPE ATZ A circle, 2 NM radius, centred at 531901N 0011146W on longest notified runway (06/ 24)	Upper limit: 2000 FT AGL Lower limit: SFC	G	NETHERTHORPE RADIO English	5000 FT		

EGNF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	NETHERTHORPE RADIO	123.280 A/G frequency.			Tue-Sun 0900-1700 (0800-1600) or SS whichever is the earlier; Mon by arrangement only.	ATZ hours coincident with A/G hours.

EGNF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGNF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome is not available for public transport passenger flights required to use a licensed aerodrome.
b) PPR is strictly by telephone and may be refused to certain aircraft types. Inexperienced pilots are to phone for advice before arriving at Netherthorpe and are to contact a member of staff for a short briefing before departure.

2 GROUND MOVEMENT

a) Aircraft should not be left on the refuelling stand.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Aircraft based at Netherthorpe operate outside published operating hours.
b) At the weekend, when Runway 06/24 is in use, aircraft may be parked at the southern end of Runway 18/36.
c) In calm wind conditions arrivals may be on Runway 24 and departures from Runway 06.
d) Runways 06, 24 and 36 have displaced thresholds due to the proximity of public roads. Any pilot whose approach would result in being below 20 FT crossing the road must initiate an immediate missed approach.
e) Overrun on Runways 18 and 36. Only 29 M of overrun strip are available on Runways 18 and 36 beyond the end of ASDA and LDA.
f) Runways 18 and 36 Obstruction free Approach Surface Slopes are based on threshold and not strip end.
g) Runways 06 and 24 Obstruction free Approach Surface Slopes are based on threshold and not strip end.
h) Telegraph poles 27 FT AGL on the northern boundary.
i) Farm and trees 39 FT AGL on the northeast boundary.
j) Hangar 20 FT AGL on the eastern boundary.
k) Farm 30 FT AGL on the southern boundary.
l) Road traffic immediately adjacent to the eastern and southern boundaries.
m) Trees 45 FT AGL on the northwest boundary.
n) Overhead power line up to 35 FT AAL runs northeast/southwest 0.24 NM and north-north-west.
o) Three wind turbines on the northwest boundary up to 734 FT AMSL (322 FT AGL).

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) 3 Counties Flying School (01909-600231) operates a Designated Training Organisation for ab-initio training.

EGNF AD 2.21 NOISE ABATEMENT PROCEDURES

a) Avoid over-flying local villages.

EGNF AD 2.22 FLIGHT PROCEDURES

a) PPR is required by phone 01909-475233.
b) Join circuits from the overhead at 1800 FT QFE where possible.
c) Circuit height is 800 FT QFE for fixed wing powered aircraft.
d) Circuit directions: Runways 06 and 36 - RH; Runways 18 and 24 - LH.

EGNF AD 2.23 ADDITIONAL INFORMATION

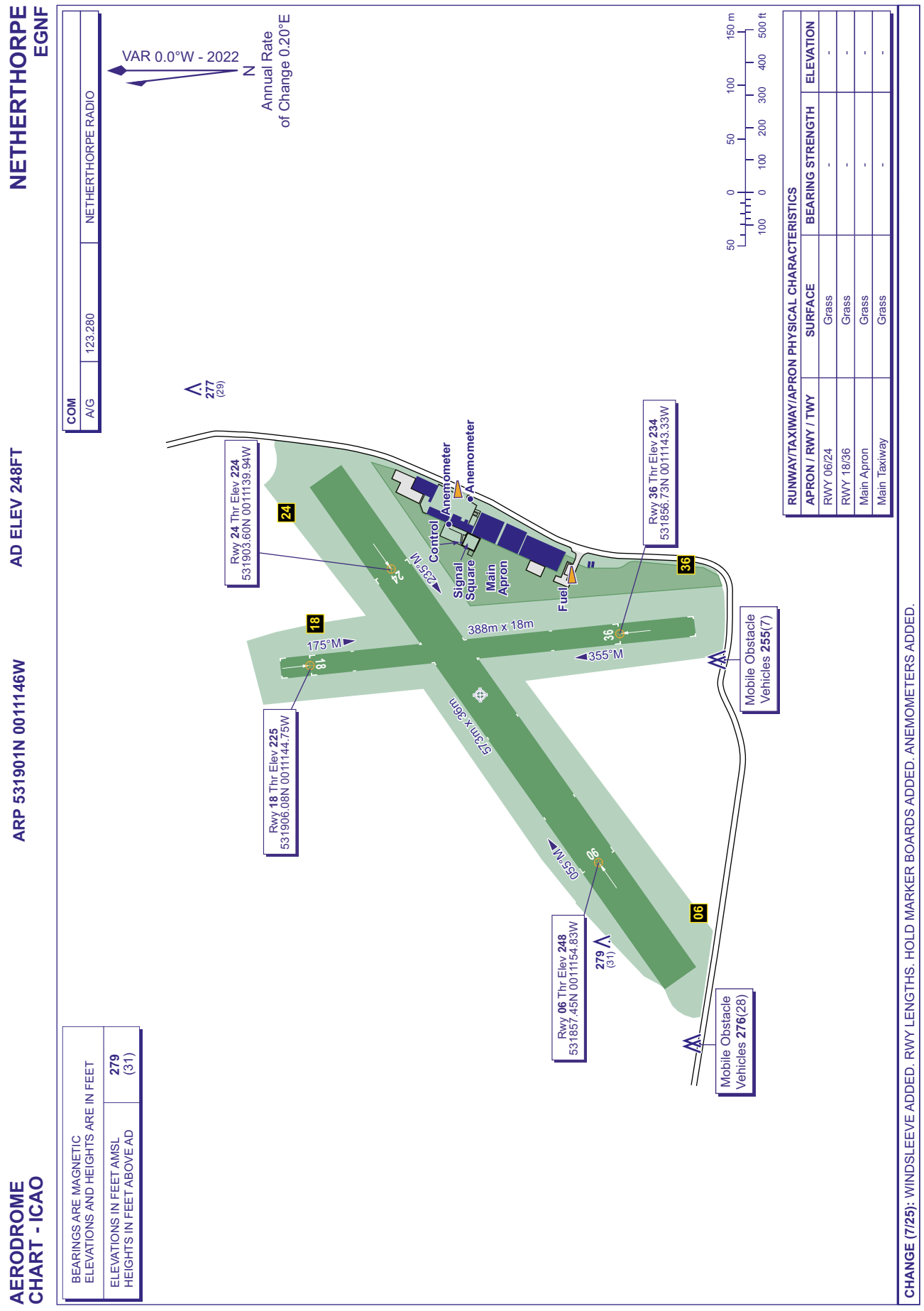
a) Flights arranged through cost sharing platforms are not permitted at Netherthorpe.

EGNF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNF-2-1

EGNF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable


NETHERTHORPE
EGNF
AERODROME
CHART - ICAO
ARP 531901N 0011146W
AD ELEV 248FT
COM
A/G
123.280
NETHERTHORPE RADIO
VAR 0.0°W - 2022
Annual Rate
of Change 0.20°E
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
279
(31)
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
BEARING STRENGTH
ELEVATION
RWY 06/24
Grass
-
-
RWY 18/36
Grass
-
-
Main Apron
Grass
-
-
Main Taxiway
Grass
-
-
Rwy 24 Thr Elev 224
531903.60N 0011139.94W
Rwy 18 Thr Elev 225
531906.08N 0011144.75W
Rwy 06 Thr Elev 248
531857.45N 0011154.83W
Rwy 36 Thr Elev 234
531856.73N 0011143.33W
277
(29)
279
(31)
Anemometer
Anemometer
Control
Signal Square
Main Apron
Fuel
388m x 18m
512m x 36m
175°M
235°M
355°M
065°M
Mobile Obstacle Vehicles 255(7)
Mobile Obstacle Vehicles 276(28)
CHANGE (7/25): WINDSLEEVE ADDED. RWY LENGTHS. HOLD MARKER BOARDS ADDED. ANEMOMETERS ADDED.

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EGNT — NEWCASTLE

EGNT AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNT — NEWCASTLE

EGNT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 550217N Long: 0014123W Midpoint of Runway 07/25.
2	Direction and distance from city	5 NM NW of Newcastle-upon-Tyne.
3	Elevation / Reference temperature / Mean Low Temperature	266 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	162 FT
5	Magnetic Variation / Annual Change	0.42°W (2022) / 0.21°E
6	AD Administration Address Telephone E-mail address	NEWCASTLE INTERNATIONAL AIRPORT LIMITED. Newcastle Airport, Woolsington, Newcastle-Upon-Tyne NE13 8BZ. 0191-214 3255 (Airport Authority) 0871-882 1121 (Airport Authority) 0191-214 8130 (ATC) enquiries@newcastleinternational.co.uk (Airport Authority) ATSManagementteam@newcastleinternational.co.uk (ATC)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGNT AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24 Christmas day by arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	H24 See also AD 2.18.
8	Fuelling	Samson: 0800-1900 (0700-1800) and by arrangement. Swissport Fuelling: H24.
9	Handling	Swissport: H24 Samson: 0800-1900 (0700-1800) and by arrangement.
10	Security	H24
11	De-icing	H24
12	Remarks	This aerodrome is PPR.

EGNT AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Normal. Nearest railway siding: Newcastle 5.2 NM.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL 80, 2050 plus various turbine oils, W80,W100
3	Fuelling facilities/capacity	Max 33 Litres/Second.
4	De-icing facilities	Available by arrangement with handling agent.
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	Maintenance and repair (by arrangement).

7	Remarks	AVGAS 100LL, AVTUR JET A-1 (without FS11 additive) and oil grades are available from Samson Jet Centre, Tel: 0191-286 4156 or 0191-214 4111. All aircraft handled by Samson must be fuelled by Samson. Out of hours surcharge. All operators must make prior arrangements with a handling agent for ground handling of all flights. AVTUR JET A-1 available from Swissport Fuelling Ltd, Tel: 0191-214 4562; Fax: 0191-214 4561. Samson Jet Centre for GA apron only. Handling on the main apron is provided by: Swissport, Tel: 0191-271 2225. The General Aviation Centre on the South side is operated by Samson Jet Centre. Samson Jet Centre: frequency 131.405 MHz, callsign 'Samson Operations'; Tel: 0191-286 4156; 0191-214 5916 (out of hours); e-mail: ops@samsonaviation.com Visiting aircraft must comprehensively brief before departure.

EGNT AD 2.5 PASSENGER FACILITIES

1	Hotels	Available.
2	Restaurants	Restaurants available.
3	Transportation	Buses and Taxis, Hire Cars. Train link to Newcastle Central station. Nearest railway station: Terminal
4	Medical facilities	First aid only. Defibrillators available.
5	Bank and Post Office	ATMs and Bureau de Change within the terminal building.
6	Tourist Office	
7	Remarks	

EGNT AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 RFF Category 8 and 9 available for scheduled movements and on request.
2	Rescue equipment	Details available on request.
3	Capability for removal of disabled aircraft	By arrangement with nominated recovery company. Light aircraft removal possible if required.
4	Remarks	

EGNT AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Latest Snow State information Tel: 0191-214 8130 (ATC). Snow Clearance Programme Tel: 0191-214 3344 (RFFS).

EGNT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	GA APRON Surface: Asphalt PCN 15/F/C/Y/T GOLF APRON Surface: Concrete PCN 65/R/B/W/T MAIN APRON Surface: Asphalt PCN 73/F/C/W/T

2	Taxiway width, surface and strength	Taxiway A: 23 M Surface: Asphalt PCN 73/F/C/W/T Taxiway B: 23 M Surface: Asphalt PCN 73/F/C/W/T Taxiway C: 23 M Surface: Asphalt PCN 73/F/C/W/T Taxiway D: 23 M Surface: Asphalt PCN 73/F/C/W/T Taxiway E: 15 M Surface: Asphalt PCN 73/F/C/W/T Taxiway F: 23 M Surface: Asphalt PCN 73/F/C/W/T Taxiway G: 23 M Surface: Asphalt PCN 22/F/C/W/T
3	Altimeter checkpoint location and elevation	Apron 258 FT
4	VOR checkpoints	
5	INS checkpoints	AD 2-EGNT-2-2 AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART.
6	Remarks	

EGNT AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1-25, 30, 31 and 60-62 are designed for nose-in/push-back operations. Stands 50-54 are self-manoeuvring, although aircraft must be marshalled on to stand. Stands 13-25, 31, 50-54 and 60-62 aircraft must be marshalled on to stand. Stands 1-12 and 30 are equipped with stand entry guidance systems. Aircrew should note that stand entry guidance systems are activated by their ground handling agent. Pilots must not enter an aircraft stand unless the stand entry guidance has been activated and the correct aircraft type is displayed, or alternatively an ATC instruction has been passed for marshalled on to stand. Airbridge available stands 3, 9/30 and 10. Stand 25 has an additional centre-line designated Left and Right. Stands 8, 13, 17 and 19 have additional markings for supplementary parking, as directed by ATC aircraft must be marshalled. Supplementary parking positions 30 and 31: Stand 30 is a parking position diagonally across Stand 9 for B747, A330-300 and B777-300 aircraft, and Stand 31 is a parking position diagonally across Stand 1 for B737-700 or A319 aircraft.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Designation, runway edge, displaced threshold, centre-line and touchdown zone. Taxiway marking aid(s): Yellow centre-line paint marking, intermediate taxi-holding positions and runway taxi-holding positions.

		Taxiway light(s): Combination of blue edge lights and switchable green centre-line (spacing 7.5 M for CAT III routes (A and D), 15 M for other routes). Illuminated holding point signs, illuminated taxi signs.
3	Stop bars and runway guard lights (if any)	Stop bars and runway guard lights at runway entrance points are in operation H24.
4	Other runway protection measures	
5	Remarks	Some obstacle marking. Illuminated wind direction indicators. Pilot attention is drawn to the use of additional paint markings at specified runway entrance and exit points. These markings are provided as an additional measure to raise situational awareness and to reduce the runway incursion risk. All Ground Movement is under ATC Control. X 2 WDI: 550234.34N 0014033.84W (LGTD) and 550207.44N 0014219.87W.

EGNT AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNT9612) 25/APPROACH 07/ TAKE-OFF	EP	550241.44N 0013935.13W	297 FT	57 FT	No	
(EGNT11734) 07/TAKE-OFF	TREE	550241.28N 0013939.89W	292 FT	54 FT	No	
(EGNT11844) 25/TAKE-OFF	TREE SMALL	550200.40N 0014232.72W	277 FT	14 FT	No	
(EGNT11806) 07/APPROACH 25/ TAKE-OFF	TREE	550155.62N 0014231.02W	297 FT	19 FT	No	
(EGNT9878) 07/APPROACH 25/ TAKE-OFF	TREE	550146.44N 0014254.02W	326 FT	28 FT	No	
(EGNT11146) 07/APPROACH 25/ TAKE-OFF	TREE	550129.96N 0014402.97W	400 FT	59 FT	No	
(EGNT11165) 07/APPROACH 25/ TAKE-OFF	TREE	550125.57N 0014525.27W	491 FT	47 FT	No	
(EGNT11225) 07/APPROACH 25/ TAKE-OFF	TREE	550114.93N 0014555.06W	541 FT	77 FT	No	
(EGNT11134) 07/APPROACH 25/ TAKE-OFF	TREE	550114.89N 0014437.88W	437 FT	42 FT	No	
(EGNT11132) 07/APPROACH 25/ TAKE-OFF	TREE	550114.66N 0014441.85W	447 FT	46 FT	No	
(EGNT10560) 07/APPROACH 25/ TAKE-OFF	HV PYLON	550033.65N 0014813.93W	640 FT	205 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNT10504)	WIND TURBINE	550613.29N 0013725.33W	626 FT	412 FT	Yes Red	
(EGNT10501)	WIND TURBINE	550605.21N 0013728.14W	626 FT	412 FT	Yes Red	
(EGNT10541)	MAST	550517.50N 0015347.67W	744 FT	99 FT	No	
(EGNT9500)	WIND TURBINE	550457.47N 0015233.46W	713 FT	147 FT	No	
(EGNT9632)	WIND TURBINE	550349.20N 0015202.15W	563 FT	110 FT	No	
(EGNT11298)	ATC AERIAL	550229.77N 0014138.43W	388 FT	151 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	CRANE	550215N 0013910W	292 FT	66 FT	Yes Red	
(EGNT9623)	FLOODLIGHT	550205.50N 0013642.28W	387 FT	170 FT	No	
(EGNT10560) 07/APPROACH 25/ TAKE-OFF	HV PYLON	550033.65N 0014813.93W	640 FT	205 FT	No	
(EGNT10585)	HV PYLON	550026.33N 0014241.38W	446 FT	119 FT	No	
(EGNT10579)	HV PYLON	550013.41N 0014310.74W	497 FT	156 FT	No	
(EGNT10926)	TREE	550006.28N 0014015.63W	449 FT	56 FT	No	
(EGNT10864)	TREE	545946.33N 0014217.08W	490 FT	67 FT	No	
(EGNT10867)	BUILDING AERIAL	545935.12N 0014205.99W	522 FT	145 FT	No	
(EGNT10566)	MAST	545550.50N 0014858.88W	1000 FT	158 FT	No	
(EGNT10565)	MAST	545550.01N 0014902.00W	998 FT	159 FT	No	
(EGNT10578)	MAST	545452.51N 0014154.18W	883 FT	139 FT	Yes Red	

EGNT AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 Hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/telephone.
6	Flight documentation Language(s) used	TAFs/METARs English
7	Charts and other information available for briefing or consultation	Available on the Met Office website, www.metoffice.gov.uk/aviation.
8	Supplementary equipment available for providing information	Newcastle ATIS available on telephone number 0191-214 3401.
9	ATS units provided with information	NEWCASTLE
10	Additional information (limitation of service, etc.)	Current weather on ATIS.

EGNT AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
07	065.19°	2330 x 45 M	RWY surface: Asphalt PCN 65/F/B/W/T SWY surface: Asphalt PCN 65/F/B/W/T	550202.35N 0014216.68W 162.5 FT	THR 263.3 FT TDZ 263.3 FT	RWY 07 0.35% down RWY 25 0.35% up
25	245.21°	2330 x 45 M	RWY surface: Asphalt PCN 65/F/B/W/T	550230.46N 0014030.76W 162.4 FT	THR 238.6 FT TDZ 243.1 FT	RWY 07 0.35% down RWY 25 0.35% up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
14 x 45 M	75 x 180 M	2396 x 280 M	150 x 90 M -			RWY 07 Ends of runways available for take-off. Threshold displaced by 121 M. Runway grooved for its full length. The downslope gradient over the first 400 M of LDA, Runway 07 is 0.57%. OFZ: Yes.
	124 x 180 M	2396 x 280 M	90 x 92 M -			RWY 25 Threshold displaced by 138 M. Ends of runways available for take-off. Runway grooved for its full length. 50 M before 25 threshold, a small turning D is available for use by aircraft back tracking Runway 25. Use with caution at night. OFZ: Yes.

EGNT AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	2330 M	2405 M	2344 M	2209 M	
25	2262 M	2386 M	2262 M	2124 M	
07	1799 M	1874 M	1812 M		Take-off from intersection with Taxiway B - 0.26%D.
07	1773 M	1848 M	1786 M		Take-off from intersection with Taxiway F - 0.26%D.
07	1559 M	1634 M	1573 M		Take-off from intersection with Taxiway E - 0.25%D.
07	1407 M	1482 M	1421 M		Take-off from intersection with Taxiway G - 0.23%D.
25	1548 M	1672 M	1548 M		Take-off from intersection with Taxiway C - 0.63%U.
25	877 M	1001 M	877 M		Take-off from intersection with Taxiway G - 0.49%U.
25	717 M	840 M	717 M		Take-off from intersection with Taxiway E - 0.58%U.

EGNT AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. Last approach light 30 M from displaced landing threshold. 914 M Light intensity high	Green Light intensity high Flush uni-directional with elev green wingbars	PAPI Right/3° 51 FT 356 M	900 M	Colour coded 15 M spacing Light intensity high	HI bi-directional edge with LI omni-directional component 60 M spacing	Red	Ends 148 M from 25 THR 15 M Red	Approach: Precision approach category II/III lighting system station removal, two luminaries have been removed from the 07 Precision approach category II/III lighting system 510 M from the 07 Threshold. CL: On departure with Aeronautical Ground Lighting illuminated. White Centre Line lamps are visible up to the threshold.
25	Coded centre-line with five crossbars. Supplementary lighting inner 300 M. Last approach light 30 M from displaced landing threshold. 914 M Light intensity high	Green Light intensity high Flush uni-directional with elev green wingbars	PAPI Left/3° 60 FT 415 M	900 M	Colour coded 15 M spacing Light intensity high	HI bi-directional edge with LI omni-directional component 60 M spacing	Red		CL: On departure with Aeronautical Ground Lighting illuminated. White Centre Line lamps are visible up to the threshold.

EGNT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 550156.03N 0014213.08W (LGTD), 550219.63N 0014046.92W (LGTD).
3	TWY edge and centre line lighting	CL: Yes. EDGE: Yes.
4	Secondary power supply/switch-over time	Yes - UPS/1 second, Standby diesels/15 seconds
5	Remarks	Apron floodlights. Obstacle lighting.

EGNT AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGNT AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
NEWCASTLE CTR 550525N 0015411W - 550955N 0013719W thence clockwise by the arc of a circle radius 8 NM centred on 550217N 0014123W to 545919N 0012829W - 545500N 0014705W thence clockwise by the arc of a circle radius 8 NM centred on 550217N 0014123W to 550525N 0015411W	Upper limit: FL105 Lower limit: SFC	D	NEWCASTLE APPROACH English	6000 FT		
NEWCASTLE ATZ A circle, 2.5 NM radius, centred at 550217N 0014123W on longest notified runway (07/25)	Upper limit: 2000 FT AGL Lower limit: SFC	D	NEWCASTLE APPROACH English	6000 FT		

EGNT AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	NEWCASTLE APPROACH	124.380 DOC 60 NM/ 25,000 FT.			H24	ATZ hours coincident with Approach hours.
TWR	NEWCASTLE GROUND	121.730 Aerodrome SFC Only.			As directed by ATC.	VDF 550219.07N 0014048.12W On Frequency 119.705 MHz Only.
	NEWCASTLE TOWER	119.705 DOC 25 NM/5,000 FT.			H24	
RADAR	NEWCASTLE DIRECTOR	125.830 DOC 60 NM/ 25,000 FT.			As directed by ATC.	ATZ hours coincident with Approach hours. VDF 550219.07N 0014048.12W On Frequency 124.380 MHz Only
	NEWCASTLE RADAR	124.380 DOC 60 NM/ 25,000 FT.			H24	
ATIS	NEWCASTLE INFORMATION	118.380			H24	
OTHER	NEWCASTLE FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNT AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 0.51°E (2027)	INC	111.500 MHz	H24	550234.55N 0014015.35W		(RWY 07) Elev: 251 FT.
ILS/GP	INC	332.900 MHz	H24	550203.07N 0014156.53W		3° ILS Ref Datum Hgt 51 FT. Elev: 256 FT.
ILS/LOC III 0.49°E (2027)	INWC	111.500 MHz	H24	550159.40N 0014227.81W		(RWY 25) Elev: 273 FT.
ILS/GP	INWC	332.900 MHz	H24	550221.98N 0014045.92W		3° ILS Ref Datum Hgt 51 FT. Elev: 229 FT.
DME	NEW	89Y 114.250 MHz	H24	550218.41N 0014154.14W	287 FT	On Newcastle AD. No associated VOR. Any VOR indications should be ignored. DME DOC: 200 NM/50,000 FT. ENR Purpose: 550218N 0014154W
NDB (L) 0.52°E (2027)	NT	352.000 kHz	H24	550301.38N 0013833.65W		Range 40 NM Elev: 257 FT
ILS/DME	INC	52X 111.500 MHz	H24	550213.02N 0014120.92W	256 FT	(RWY 07) On AD. DME freq paired with ILS I-NC and I-NWC. Zero range is indicated at THR of runway in use for ILS and NDB approaches.
ILS/DME	INWC	52X 111.500 MHz	H24	550213.02N 0014120.92W	256 FT	(RWY 25) On AD. DME freq paired with ILS I-NC and I-NWC. Zero range is indicated at THR of runway in use for ILS and NDB approaches. DME unlocks may occur outside 25° left of centreline when beyond 17 NM and below 2500 FT.

EGNT AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All flights are at all times subject to PPR. The filing of a flight plan does not constitute permission to use Newcastle International Airport Ltd. Applications for prior permission and runway slots should be addressed as follows:

   i. All requests for slots during office hours 0900-1700 (0800-1600) are to be directed to Airport Coordination Ltd (ACL) Tel: 0161-493 1850, E-mail: manchester@acl-uk.org, SITA: LONACXH;
   ii. Operators of Military, General and Business Aviation aircraft may only operate when permission has been obtained from Samson Aviation (0191-286 4156) in advance of each movement;
   iii. Flight Training Requests should be made to ATC (0191-214 8130).

b) Booking out details should be passed by telephone to ATC (0191-214 8130). Booking out by radio will not be accepted.
c) Aircraft towing banners may not land at or depart from the aerodrome.
d) All aircraft using Newcastle Aerodrome or its facilities are required to have third party liability insurance cover in the sum of at least 1 million pounds. Proof of this insurance should be available for inspection at any time whilst the aircraft is at the aerodrome.
e) Newcastle Aerodrome aprons are a 24 hour mandatory High Visibility Clothing Area. All flight crews are to wear High Visibility clothing for all ramp activities, except when direct bussing to/from aircraft steps and terminal or when walking via delineated passenger walkways.
f) All General Aviation are required to nominate a handling agent, especially prior to filing a flight plan to arrive from outside the UK. Failure to do so will result in the provision of a security escort for which a charge will be levied. The exceptions to the above are as follows:

   • Newcastle based operators. In this instance it will be the captain's responsibility to present to the Control Authorities any non-EC national as well as any other person required to be presented in accordance with current UK regulations.

- All visiting General Aviation aircraft, less than 5700 KG MTOW, are strictly subject to PPR and compulsory handling. Pilots must obtain a PPR reference prior to arrival from Samson Aviation (0191-286 4156) indicating the purpose of the visit and parking requirements.

g) Parking outside delineated areas is contrary to the byelaws.
h) Fixed Electrical Ground Power must be used wherever available and serviceable.

2 GROUND MOVEMENT

a) General

i. All requests for clearance, push-back, start-up and taxi should be made directly with ATC (The ATIS shall state the appropriate frequency). Directions issued by ATC should be followed precisely. RTF transmissions must be brief, concise and kept to a minimum.
ii. Outbound aircraft, on first contact with Newcastle ATC, should state aircraft type, stand number, ATIS code letter, QNH received, and then maintain a listening watch at all times.
iii. Clearance is available for departing aircraft no earlier than 20 minutes before EOBT, on the appropriate frequency.
iv. Data link Departure Clearance (DCL):

1. Pre-departure clearance via datalink (ARINC or SITA) is available at Newcastle for suitably equipped aircraft flight planned via GIRLI P18, or BAVDO/ERKIT N110;
2. Requests for DCL should be submitted no earlier than 20 minutes before EOBT.

v. Pilots should only request push back (with tug attached) when they are actually ready to do so and should be in direct communication with the tug crew via a headset person, ATC must be informed if no direct communication with a headset person is available.
vi. Flights subject to CTOT may request to push-back and tow to wait in a remote position/stand, such requests shall be made to ATC upon the appropriate frequency.

b) Ground Movement Restrictions

i. Holding Point D2 is restricted to aircraft with a maximum wingspan of 36 M.
ii. Taxiway E is restricted to aircraft with a maximum wingspan of 17 M, larger aircraft should be towed with caution.
iii. Taxiway F is restricted to aircraft with a maximum wingspan of 27.5 M, aircraft upon the GA Apron with a wingspan greater than 16 M shall park stands 53 or 54, South of stand 53 the maximum wingspan is 16 M, further reducing to 12 M within the West Apron.
iv. Aircraft classified as Code E and higher (with the exception of B787-8) should not use the angled turn offs at TWY B and TWY C (Hold CW) to vacate the runway after landing.

3 CAT II/III OPERATIONS

a) Runways 07 and 25, subject to serviceability of the required facilities, are suitable for Category II/III operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II/III operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed when these procedures are in operation by ATIS broadcast or by RTF.
c) In the event of IRVR equipment being unserviceable, reported MET visibility shall be passed.
d) Departing aircraft: ATC shall require departing aircraft to use the following CAT II/III holding points:

Runway 07 A2
Runway 25 D3 or D2 (D2 when instructed by ATC)
Holding Point G although not designated CAT II/III, the holding point is the required 137 M from the runway centre-line.
Occasionally, it may be necessary for other holding points to be used at the discretion of ATC.

e) Arriving aircraft: Appropriate runway exits shall be illuminated. Pilots should select the first convenient exit unless advised by ATC.
f) When Low Visibility Procedures are in force a much reduced landing rate can be expected due to the requirement for increased spacing between arriving aircraft. In addition to the prevailing weather conditions, such factors as equipment serviceability may also have an effect on actual landing rates.

4 WARNINGS

a) Gliding takes place at Currock Hill gliding site, 8 NM south-west of Newcastle Aerodrome. ATC will advise when active via RTF and/or ATIS.
b) CAT I Localiser fluctuations are likely should the preceding landing aircraft vacate at the end.
c) Vehicular Operations taxiway Echo / Golf, aircraft should exercise caution when taxiing and be mindful of the vehicle crossing point upon taxiway Echo and Golf.
d) The grass verges along the sides of the runway and taxiways are soft in many places. Pilots are to exercise caution when taxiing.
e) When Runway 25 is in use and the wind direction is from 160° through south to 190°, pilots should expect wind disturbance and possible negative gradient.
f) Possible bird activity from nature reserve north of the NT NDB(L), 1.2 NM from Runway 25 touchdown and woodland area North of the aerodrome perimeter abeam the Fire Station.
g) Erosion strip along the edges of the runway (beyond the slot drain) have limited load bearing strength.
h) When a high pressure system is giving way to a low the wind aloft can be from the south or southwest whilst the surface wind still favours Runway 07. There is an increased risk of a rushed approach onto Runway 07; contributory factors are being held high, tailwind during

descent and engine anti-ice required during descent through cloud (icing). A sea breeze due to the sun's warming overland can also have the same effect. →

5 HELICOPTER OPERATIONS

a) Helicopters must use the runway for take-off and landing, unless specific instruction issued by ATC not to use the runway.
b) Three helicopter parking areas are provided. Two are located on the general aviation apron and are designated 'P-East' and 'P-West'. Stand 54 is a multi-use stand and helicopters may be marshalled. Skid equipped helicopters must utilise P-East or P-west as no hover taxi permitted beyond these stands – Ground taxi only. Helicopters operations from taxiway Echo restricted to based operators.
c) Helicopters operating TO/FROM sites within the CTR:

i. Flight Details - Prior to lifting, the pilot shall book out with Newcastle ATC, preferably via telephone at least ten minutes prior to lift. Note: The act of booking out does NOT constitute a zone clearance. Clearance must be obtained via RTF from Newcastle ATC.
ii. Operation - Outbound

The pilot must: Lift into the hover to a height of not greater than 200 FT AGL and obtain zone clearance. Only when a clearance has been received, can the flight set course subject to Newcastle ATC Instruction.

iii. Operation - Inbound

Contact should be made, where possible, with Newcastle Radar at least 5 minutes flying time from the CTR or CTA boundary requesting clearance to enter CAS. The pilot shall report when descending into the landing site. It should be noted that after this report has been made, no further action will be initiated by ATC, for instance incident/accident, unless information to the contrary is received. If no acknowledgement is received from Newcastle ATC, then the pilot must telephone ATC as soon as practical after landing.

6 USE OF RUNWAYS

a) Variable circuit as advised by ATC.
b) Aircraft exiting via Bravo and Charlie should do so at speeds of 25 KT or less.

7 TRAINING

a) Operators intending to follow a programme of training flights should obtain prior approval from the Chief Executive.
b) Training flights.

i. Training flights may only take place by prior arrangement with ATC and only between Mon-Sat 0730-2300 (0630-2200), Sun 1000-2300 (0900-2200).
ii. ATC must be advised of any cancellations. Any sortie delayed by 30 minutes or more will be deemed to have been cancelled.
iii. No flying training, including training circuits, missed approaches and landings, is permitted between 1200-1500 during the period 1 May until 30 September. The single take-off or full stop landing of an aircraft on a training flight may be permitted. Local sorties will also be restricted during these times. Outside of these times training and local sorties will be permitted subject to ATC priorities.
iv. Asymmetric flight must not be carried out without the permission of ATC.
v. The filing of a flight plan for a training detail does not constitute acceptance.
vi. Flight training is not permitted during Low Visibility Operations (LVOs).

c) All training flights by aircraft above 12,000 KG MTWA and all turbo-jet or turbo-fan aircraft shall be subject to the following conditions:

i. Circuits shall be at a minimum of 2000 FT QNH except for aircraft having an MTWA of 95,000 KG or greater, when they shall be at a minimum of 2300 FT QNH;

1. Circuits will be variable in direction, left or right hand, in accordance with ATC instructions.
2. Aircraft are to be flown in such a manner as to avoid built-up areas in the vicinity of the aerodrome.
3. All training aircraft carrying out circuits or making a missed approach from a visual circuit to either runway are required to comply with the Noise Preferential Routeings.
4. Training flights will not be given priority over essential aerodrome maintenance work.

EGNT AD 2.21 NOISE ABATEMENT PROCEDURES

All aircraft inbound to, and outbound from or local flying at this aerodrome are required to conform to the following procedures, notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger:

a) Every operator of aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the aerodrome.
b) **Continuous Descent Approaches**
Subject to ATC instructions, inbound jet aircraft are to maintain as high an altitude as practicable and adopt a low power, low drag continuous descent profile, when appropriate. Turbo-jet and turbo-prop aircraft are expected to apply continuous descent, low power, low drag approach techniques at all times. ATC shall provide regular range checks. Pilots who require additional track mileage to facilitate a successful CDA should inform ATC as soon as the requirement is apparent.

c) Aircraft approaching without assistance from radar or ILS shall follow a descent path which will result in the aircraft not being at any time lower than the approach path which would be followed by aircraft using the ILS glide path.

d) Aircraft must not join the final approach track to either runway at a range of less than 7 NM and not below altitude 2000 FT except when instructed by ATC, unless they are propeller driven aircraft with an MTWA of between 5700 KG and 12,000 KG when restriction shall be to join the final approach to either runway at not less than 3.5 NM and not below altitude 1300 FT. Aircraft whose MTWA is less than 5700 KG must not join the circuit below altitude 1300 FT.

e) To minimise disturbance in areas adjacent to the aerodrome, Captains are required to avoid the use of reverse thrust above idle power on landing, consistent with the safe operation of aircraft between the hours of 2300-0700 (2200-0600).

f) Noise Preferential Routings – The Noise Preferential Routings specified in the following table are compatible with ATC requirements and the tracks are to be flown by all departing jet aircraft and by all other departing aircraft of more than 5700 KG MTWA unless authorised by ATC or unless deviations are required in the interest of safety. The NPRs are incorporated into the Standard Instrument Departure (SIDs) and Omnidirectional departures.

Take-off Runway	Direction of turn	Intended track (°M)	Procedure	Take-off Runway	Direction of turn	Intended track (°M)	Procedure
07	Left Turn	Between 069° and 250° and LH circuit	Climb straight ahead to FL 80. (Circuit level as directed by ATC.)	25	Straight ahead or Right Turn	Between 251° and 070° and RH circuit	Climb straight ahead to FL 80 (Circuit level as directed by ATC).
	Right Turn	GIRLI P18 ERKIT N110 RH circuit	Climb straight ahead to 3.5 DME NEW (3 DME I-NC) and turn right heading 190° climbing to FL 80 (Circuit level as directed by ATC).		Left Turn	GIRLI P18 ERKIT N110 LH circuit	Climb straight ahead to 1.5 DME NEW (1 DME I-NWC) and turn left heading 210° climbing to FL 80. (Circuit level as directed by ATC.)
					Left turn (CURROCK ACTIVE)	GIRLI P18 ERKIT N110 LH circuit	Climb straight ahead to 1.5 DME NEW (1 DME I-NWC) and turn left heading 180° climb to FL 80.

Note 1: *Gliding may take place at Currock Hill Gliding Site, 545602N 0015043W, 8 NM south-west of Newcastle aerodrome from dawn to dusk, ATC will advise when active via RTF and/or ATIS.*

g) Ground Running: Ground running by aircraft is prohibited between 2300-0600 (2200-0500), unless the aircraft operator can show that there exists overriding operational requirements. At other times ground running is to be kept to the minimum consistent with operational needs and shall be authorised by ATC.

h) General Aviation to avoid overflying built up areas.

EGNT AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) The standard routes for aircraft inbound descending from upper airspace are as follows:

Approach from	Via	Route
South STAR RNAV1 equipped aircraft only. If no onward clearance received by ETSES remain in the ETSES hold.	P18	POL – P18 – NATEB POL – POL 1N – ETSES (RNAV1)
	Y250	Y250 – GASKO – P18 – NATEB RIMTO – RIMTO 1N – ETSES (RNAV1)
South-East	N110	Leave CAS on track NATEB
North-West	Y96	Leave CAS on track NATEB
East	UP16	Leave CAS on track NATEB

b) Descent upon the STAR shall be as directed by ATC.

c) Aircraft inbound on the STAR can expect vectoring for an ILS to the runway in use.

d) Runway 25: RNAV1 equipped aircraft may request to fly the ETSES 1K transition for the RNP approach.

e) Runway 07: RNAV 1 equipped aircraft may request to fly the ETSES 1J transition for the RNP approach.

f) **Descent Planning**

i. To assist in the calculation of Continuous Descent Approach profiles, the following levels are recommended:

1. Abeam UVAVU - FL140.
2. Abeam TILNI - FL110.
3. Abeam GIRLI - FL90.

g) **Missed Approaches.** The Newcastle Standard Missed Approach Procedures are detailed within the associated Instrument Flight Procedure Charts including the procedures that apply in the event of executing a missed approach with loss of radio communications.

h) **Radio Failure IFR**

i. Aircraft expecting an ILS approach are to route to the NT (L) at the last assigned level and continue with the radio fail procedure adopted in ENR 1.1.3.
ii. Aircraft expecting an RNP approach are to:

1. If failure occurs **before** ETSES, continue on the STAR and establish in the ETSES hold before adopting the Radio Failure Procedure adopted in ENR 1.1.3;
2. If the failure occurs **after** ETSES, continue on the transition for the RNP approach in accordance with the Radio Failure Procedure adopted in ENR 1.1.3.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Aircraft should flight plan via the following routes:

Outbound to	Via	Route
South and South-West	P18 P18/P16	P18 – POL (below FL 190) P18 – GASKO – P16 (FL 190 and above) ***Note:*** *Aircraft not able to make FL 210 by GASKO and requiring continuous climb above FL 210 should inform ATC*
South-East	Y250 for L60 and L603	P18 – GASKO – Y250 – MAMUL
	N110 for Y70 and L603	ERKIT – N110 – ABTOS (for Y70) ERKIT – N110 – DOLAS (for L603) ***Note:*** *Aircraft routeing via Y70 or L603 may alternatively route via P18 – Y250 – L60/ L603*
North, East and West	FIR	Route via appropriate significant points, advice available from ATC.

3 VFR FLIGHTS

a) VFR flights in the Control Zone will be passed routeing instructions and/or altitude restrictions in order to integrate VFR flights with other traffic.Pilots are reminded of the requirements to remain in VMC at all times and to comply with the relevant parts of SERA and the Rules of the Air Regulations 2015, and must advise ATC if at any time they are unable to comply with the clearance instructions issued.

4 VFR ROUTES TO AND FROM NEWCASTLE

a) VFR routes have been established; clearances will be issued subject to the conditions specified in paragraph 3. These routes are determined by visual reference points and prominent ground features, and are detailed in the following tables. 'Not above altitude' level instructions will be passed with the appropriate ATC VFR clearance.
b) Requests for non-standard routes must be co-ordinated with ATC.

Outbound Visual Routes

Exit Point	RWY	Route	Maximum Altitude
Tyne Bridges	07	Turn right outbound to leave the CTR no more than 1 NM east of the Tyne Bridges VRP.	2500 FT
Blaydon	07	Turn right outbound to leave the CTR south of Blaydon VRP and no more than 1 NM east of the A1.	2500 FT
Stagshaw Mast	07	Turn left outbound, to cross Ponteland at 1300 FT or above or remain north of Ponteland, routing north of Ouston VRP to leave the CTR no more than 1 NM north of Stagshaw Masts VRP.	2500 FT
Bolam Lake	07	Turn left outbound to remain North of Ponteland. Leave the CTR no more than 1 NM east of the A696 on track towards Bolam Lake VRP.	2500 FT
Morpeth Railway Station or Blyth Windfarm	07	Turn left outbound, to remain east of A1 from Stannington. Leave the CTR no more than 1 NM east of Morpeth Railway Station VRP.	2500 FT
Tyne Bridges	25	Turn left outbound to leave the CTR no more than 1 NM west of the Tyne Bridges VRP.	2500 FT
Blaydon	25	Turn left outbound to leave the CTR south of Blaydon VRP, remaining no more than 1 NM west of the A1.	2500 FT
Stagshaw Mast	25	Climb straight ahead to 1000 FT QNH, turn right to cross Ponteland at 1300 FT or above, route via Ouston VRP then no more than 1 NM south of Stagshaw VRP. **Note:** Advise ATC if unable to cross Ponteland at 1300 FT or above. Continue straight ahead until 3 DME before turning towards Ouston VRP.	2500 FT

Exit Point	RWY	Route	Maximum Altitude
Bolam Lake	25	Climb straight ahead to 1000 FT QNH, turn right to cross Ponteland at 1300 FT QNH or above. Leave the CTR no more than 1 NM west of the A696 on track towards Bolam Lake VRP. **Note:** Advise ATC if unable to cross Ponteland at 1300 FT or above. Continue straight ahead until 3 DME before turning towards Bolam Lake VRP.	2500 FT
Morpeth Railway Station or Blyth Windfarm	25	Climb straight ahead to 800 FT QNH, turn right to pass east of Ponteland continuing climb. Route to leave the zone no more than 1 NM west of the A1.	2500 FT

Outbound and inbound visual routes via Bolam Lake, Derwent Reservoir and Ouston (Disused Aerodrome) VRPs are recommended for daylight use only.

Inbound Visual Routes

Entry Point	RWY	Route	Maximum Altitude
Tyne Bridges	07	Enter the CTR no more than 1 NM west of Tyne Bridges VRP, route to join right base for RWY 07.	2500 FT
Blaydon	07	Enter the CTR no more than 1 NM west of Blaydon VRP, route join to right base for RWY 07.	2500 FT
Stagshaw Mast	07	Enter the CTR not more than 1 NM south of Stagshaw Masts VRP, route via Ouston VRP to join left base RWY 07, remaining 1300 FT or above over Ponteland OR if not possible remain west of Ponteland and when cleared join final approach RWY 07 not less than 3.5 NM from touchdown	2500 FT
Bolam Lake	07	Enter the CTR not more than 1 nm west of the A696. Route to join left base RWY 07, remaining 1300 FT or above over Ponteland OR if not possible remain west of Ponteland. When cleared join final approach not less than 3.5 NM from touchdown	2500 FT
Morpeth Railway Station or Blyth Windfarm	07	Enter the CTR no more than 1 NM west of the A1, to join left base RWY 07 east of Ponteland remaining at or above 1000 FT QFE until south of Ponteland	2500 FT
Tyne Bridges	25	Enter the CTR no more than 1 NM east of Tyne Bridges VRP to join left base RWY 25.	2500 FT
Blaydon	25	Enter the CTR no more than 1 NM east of Blaydon VRP to join left base RWY 25	2500 FT
Stagshaw Mast	25	Enter the CTR no more than 1 NM north of Stagshaw Masts VRP. Route north of Ouston VRP to join downwind right hand RWY 25. Cross Ponteland at or above 1300 FT or route north of Ponteland	2500 FT
Bolam Lake	25	Enter the CTR no more than 1 NM east of the A696, route to join right base RWY 25 remaining clear of Ponteland.	2500 FT
Morpeth Railway Station or Blyth Windfarm	25	Enter the CTR no more than 1 NM east of Morpeth Railway Station VRP, route east of the A1 until east of Stannington to join right base RWY 25.	2500 FT

5 SPECIAL VFR FLIGHT

a) Special VFR clearance for flights within the Control Zone may be requested and may be given in accordance with the rules applicable to Class D airspace.
b) Pilots are reminded that it is their responsibility when operating on a Special VFR Clearance to remain at all times clear of cloud and in sight of the surface and in flight conditions which will enable them to determine their flight path and ensure that they comply with SERA.3105 Minimum Heights and the relevant parts of SERA.5001 VMC Visibility and Distance from Cloud Minima, SERA.5005 Visual Flight Rules and Rules of the Air Regulations 2015. Pilots must inform the radar controller if compliance with these requirements entails a change of heading or level.
c) Pilots are reminded that a Special VFR clearance applies only to flight within the CTR and does not extend to flight within the surrounding airspace.
d) Special VFR flight may be subject to delay.
e) In order to reduce conflict with IFR flights, Special VFR arriving/departing flights will normally be cleared not above a specified altitude and to route via a published VRP.

6 GLIDERS

a) Local gliding activity takes place at Currock Hill. See note at AD 2.20
b) Newcastle ATC provides a service to gliders requesting clearance to enter the Borders / Newcastle CTA North of UVAVU below FL120.

7 VISUAL REFERENCE POINTS (VRP)

a) Use of Bolam Lake, Derwent Reservoir and Ouston (Disused Aerodrome) VRPs is not recommended at night.

b) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

8 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the Newcastle controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Newcastle Radar frequency, 124.380 MHz, are encouraged to select SSR code 3737.

550321N 0010315W - 544746N 0012813W -
544003N 0015830W - 543945N 0021543W -
550313N 0021717W - 552217N 0021300W -
553343N 0012806W.

b) Selection of 3737 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Newcastle controlled airspace at all times.
c) Whilst squawking 3737, pilots should be aware that Newcastle Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 3737 shall be deselected.

EGNT AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNT AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNT-2-1
AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO
AD 2.EGNT-2-2
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGNT-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNT-5-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 07 GIRLI 1T - ICAO
AD 2.EGNT-6-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 25 GIRLI 1Y - ICAO
AD 2.EGNT-6-2
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) RWY 25 GIRLI 3X - ICAO
AD 2.EGNT-6-3
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 07 GIRLI 1T RWY 25 GIRLI 1Y GIRLI 3X
AD 2.EGNT-6-4
RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) POL 1N RIMTO 1N - ICAO
AD 2.EGNT-7-1
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 07/25 ETSES 1J 1K - ICAO
AD 2.EGNT-7-2
STANDARD INSTRUMENT ARRIVAL CODING TABLES POL 1N RIMTO 1N
AD 2.EGNT-7-3
RNAV HOLD CODING TABLES ETSES
AD 2.EGNT-7-4
TRANSITION CODING TABLES ETSES 1J 1K
AD 2.EGNT-7-5
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 07 - ICAO
AD 2.EGNT-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 07 - ICAO
AD 2.EGNT-8-2
INSTRUMENT APPROACH CHART RNP RWY 07 - ICAO
AD 2.EGNT-8-3
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 07 - ICAO
AD 2.EGNT-8-4
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 25 - ICAO

AD 2.EGNT-8-5
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 25 - ICAO
AD 2.EGNT-8-6
INSTRUMENT APPROACH CHART RNP RWY 25 - ICAO
AD 2.EGNT-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 25 - ICAO
AD 2.EGNT-8-8
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 07
AD 2.EGNT-8-9
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 25
AD 2.EGNT-8-10

EGNT AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 550217N 0014123W

AD ELEV 266FT

NEWCASTLE
EGNT

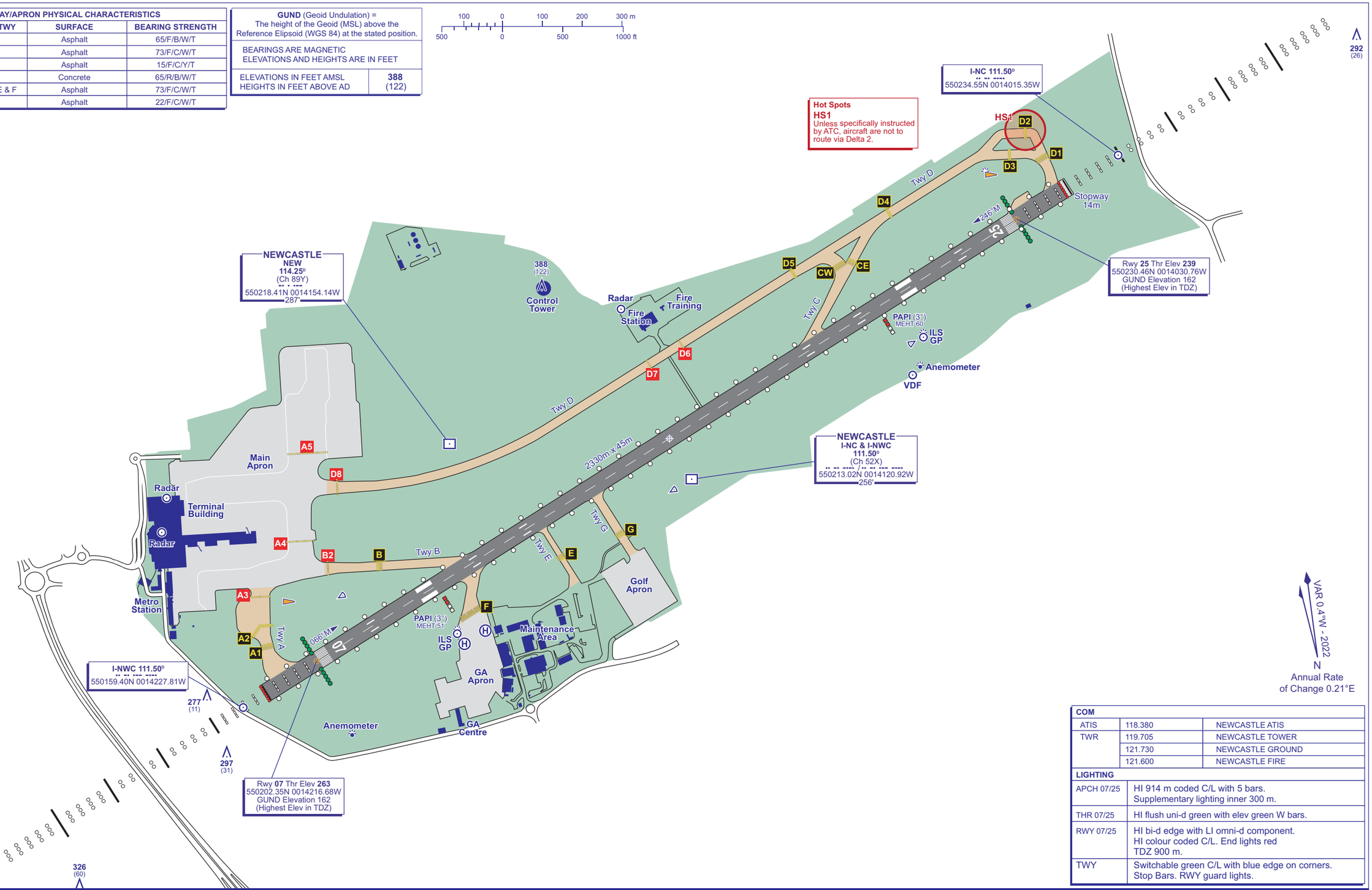
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 07/25	Asphalt	65/F/B/W/T
Main Apron	Asphalt	73/F/C/W/T
GA Apron	Asphalt	15/F/C/Y/T
Golf Apron	Concrete	65/R/B/W/T
TWY A, B, C, D, E & F	Asphalt	73/F/C/W/T
TWY G	Asphalt	22/F/C/W/T

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**388** (122)

100 0 100 200 300 m
500 0 500 1000 ft



VAR 0.4°W - 2022
N
Annual Rate of Change 0.21°E

COM		
ATIS	118.380	NEWCASTLE ATIS
TWR	119.705	NEWCASTLE TOWER
	121.730	NEWCASTLE GROUND
	121.600	NEWCASTLE FIRE

LIGHTING	
APCH 07/25	HI 914 m coded C/L with 5 bars. Supplementary lighting inner 300 m.
THR 07/25	HI flush uni-d green with elev green W bars.
RWY 07/25	HI bi-d edge with LI omni-d component. HI colour coded C/L. End lights red TDZ 900 m.
TWY	Switchable green C/L with blue edge on corners. Stop Bars. RWY guard lights.

CHANGE (7/25): TDZ MARKINGS REDUCED AND MODIFIED TO ICAO-A SPEC.

AERO INFO DATE 08 APR 25

AIRCRAFT GROUND MOVEMENT/PARKING/DOCKING CHART - ICAO

ARP 550217N 0014123W

AD ELEV 266FT

NEWCASTLE
EGNT

COM		
ATIS	118.380	NEWCASTLE ATIS
TWR	119.705	NEWCASTLE TOWER
	121.730	NEWCASTLE GROUND
	121.600	NEWCASTLE FIRE
LIGHTING		
TWY	Switchable Green C/L with Blue Edge on Corners. Stop Bars. RWY guard lights.	



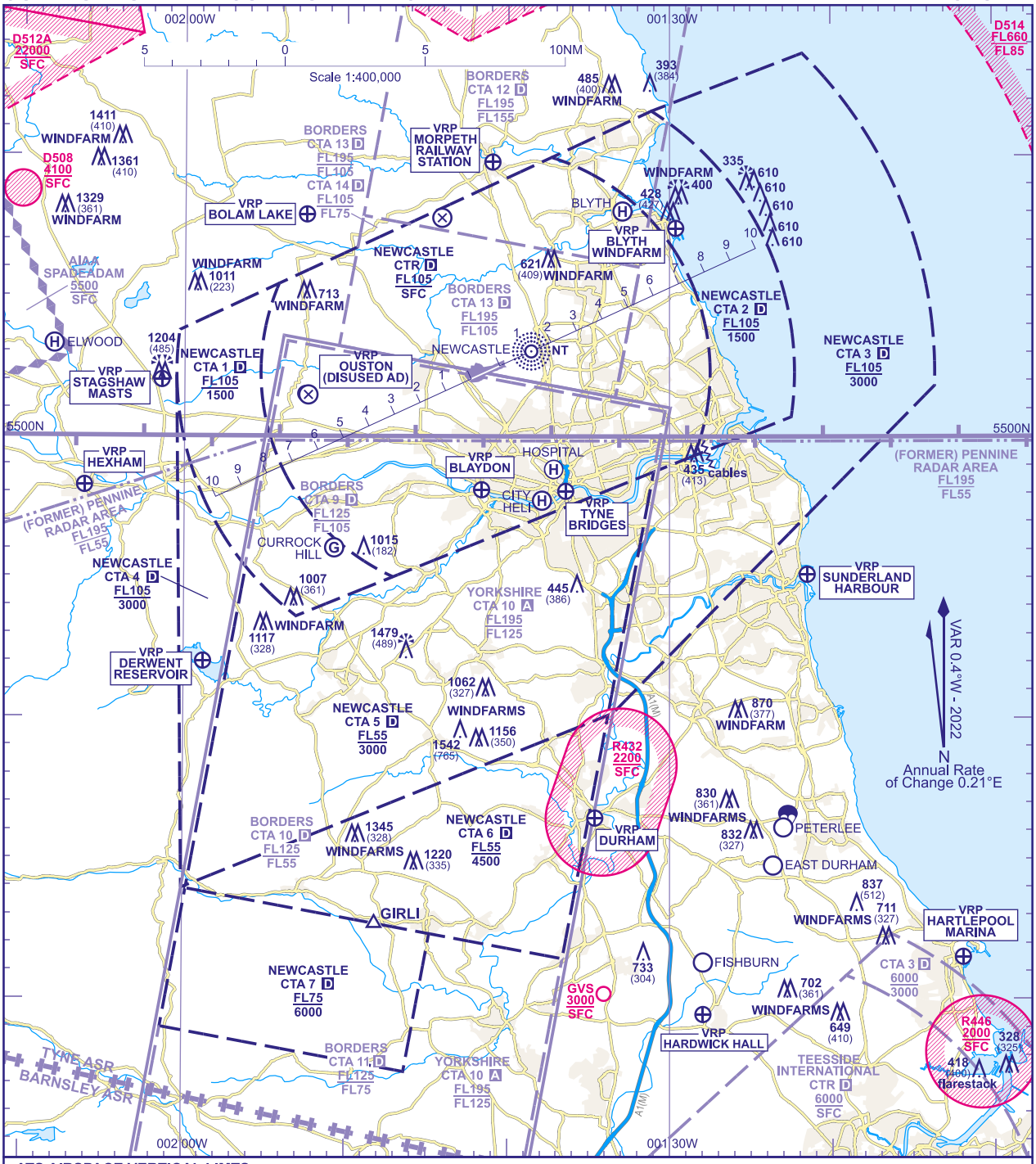
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 07/25	Asphalt	65/F/B/W/T
Main Apron	Asphalt	73/F/C/W/T
GA Apron	Asphalt	15/F/C/Y/T
Golf Apron	Concrete	65/R/B/W/T
TWY A, B, C, D, E & F	Asphalt	73/F/C/W/T
TWY G	Asphalt	22/F/C/W/T

STAND	COORDINATE	STAND	COORDINATE
1	550208.79N 0014234.34W	21	550226.95N 0014206.90W
2	550210.13N 0014234.44W	22	550225.13N 0014206.72W
3	550212.49N 0014230.38W	23	550223.60N 0014206.91W
4	550212.34N 0014228.00W	24	550221.92N 0014207.38W
5	550212.05N 0014225.58W	25	550219.75N 0014207.11W
6	550212.00N 0014223.43W	25L	550220.42N 0014208.22W
7	550212.47N 0014221.84W	25R	550219.17N 0014208.38W
8	550213.03N 0014221.06W	30	550213.81N 0014222.22W
9	550213.61N 0014222.94W	31	550208.54N 0014234.27W
10	550213.90N 0014224.23W	50	550202.09N 0014151.73W
11	550214.04N 0014227.45W	51	550201.17N 0014151.48W
12	550214.64N 0014230.21W	52	550200.20N 0014151.19W
13	550219.95N 0014226.05W	53	550200.34N 0014156.79W
14	550219.86N 0014223.72W	54	550201.42N 0014156.19W
15	550219.39N 0014221.39W	60	550202.73N 0014131.63W
16	550220.07N 0014220.38W	61	550204.00N 0014132.65W
17	550220.94N 0014220.12W	62	550205.33N 0014133.72W
18	550222.55N 0014219.56W		
19	550225.73N 0014215.29W		
20	550226.86N 0014215.32W		

CHANGE (7/25): HOLD A1 TO RWY SECONDARY LEAD ON/OFF C/L REMOVED.

AERO INFO DATE 08 APR 25

CONTROL ZONE AND CONTROL AREA CHART — NEWCASTLE



ATS AIRSPACE VERTICAL LIMTS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

LATERAL LIMTS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25) HOSPITAL HELI SITE ADDED.

AERO INFO DATE 27 JAN 25

AD 2-EGNT-4-1

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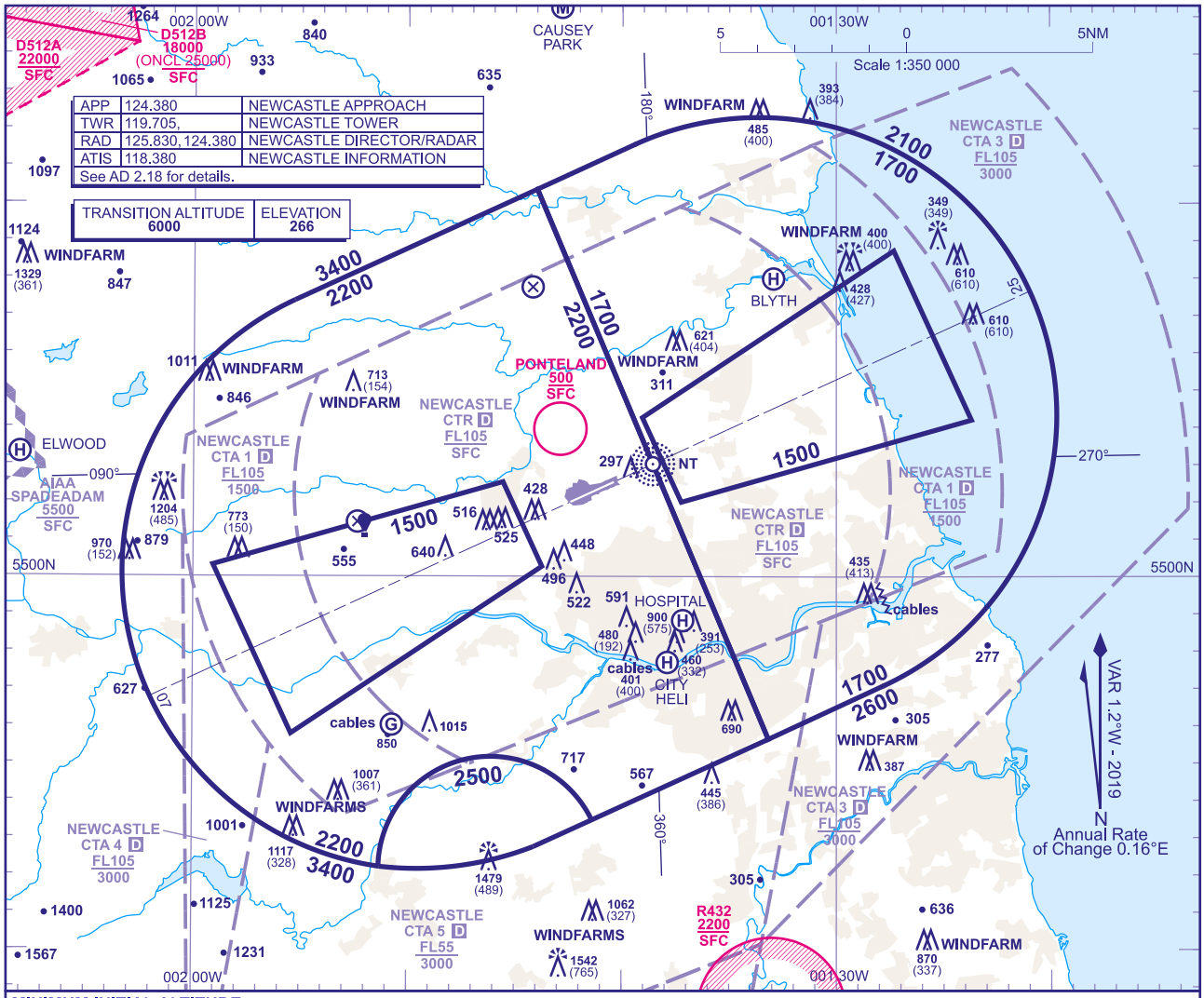
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1542
HEIGHTS IN FEET AGL (765)

NEWCASTLE



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1700** in the sector defined by the lateral limits; 551023N 0014359W - 551137N 0013926W thence clockwise by an arc of a circle radius 8NM centred on 550420N 0013337W to 545705N 0012748W - 545539N 0013310W - 551023N 0014359W.

b) **2200** in the sector defined by the lateral limits; 550724N 0015517W - 551023N 0014359W - 545539N 0013310W - 545329N 0014123W thence anti-clockwise by an arc of a circle radius 3NM centred on 545210N 0014605W to 545214N 0015117W thence clockwise by an arc of a circle radius 8NM centred on 550009N 0014923W to 550724N 0015517W.

For right hand circuits to RWY 07 further descent to **2200** may be given on base leg when north of CTA boundary.

c) **2500** in the sector defined by the lateral limits; 545214N 0015117W thence clockwise by an arc of a circle radius 3NM centred on 545210N 0014605W to 545329N 0014123W - 545254N 0014331W thence clockwise by an arc of a circle radius 8NM centred on 550009N 0014923W to 545214N 0015117W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) NT†**.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) NT†**.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights area shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of NDB(L) NT.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

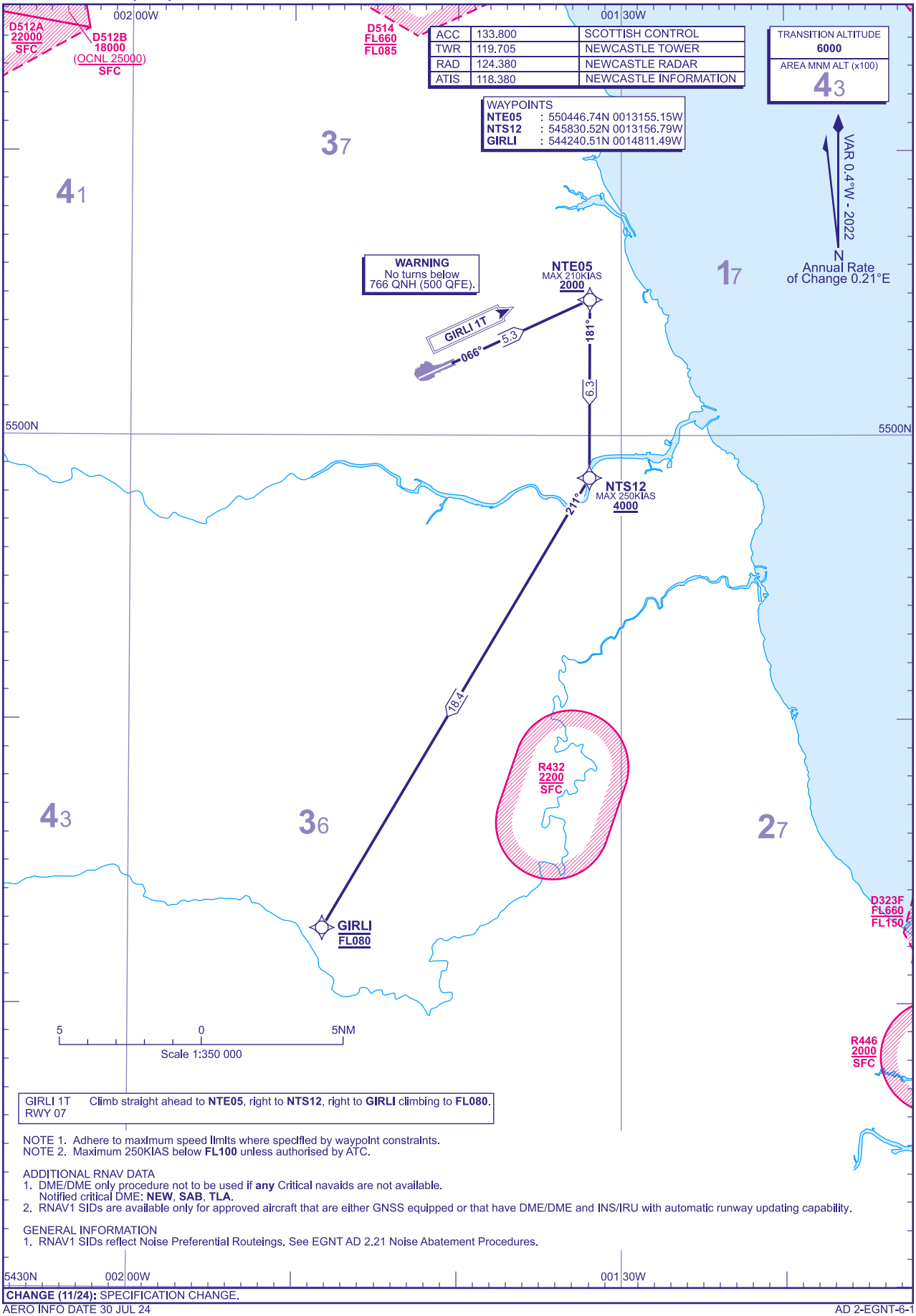
AERO INFO DATE 28 JAN 25

INTENTIONALLY BLANK

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

NEWCASTLE
RWY 07
GIRLI 1T



NOTE 1. Adhere to maximum speed limits where specified by waypoint constraints.
NOTE 2. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure not to be used if **any** Critical navaids are not available.
   Notified critical DME: **NEW**, **SAB**, **TLA**.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGNT AD 2.21 Noise Abatement Procedures.

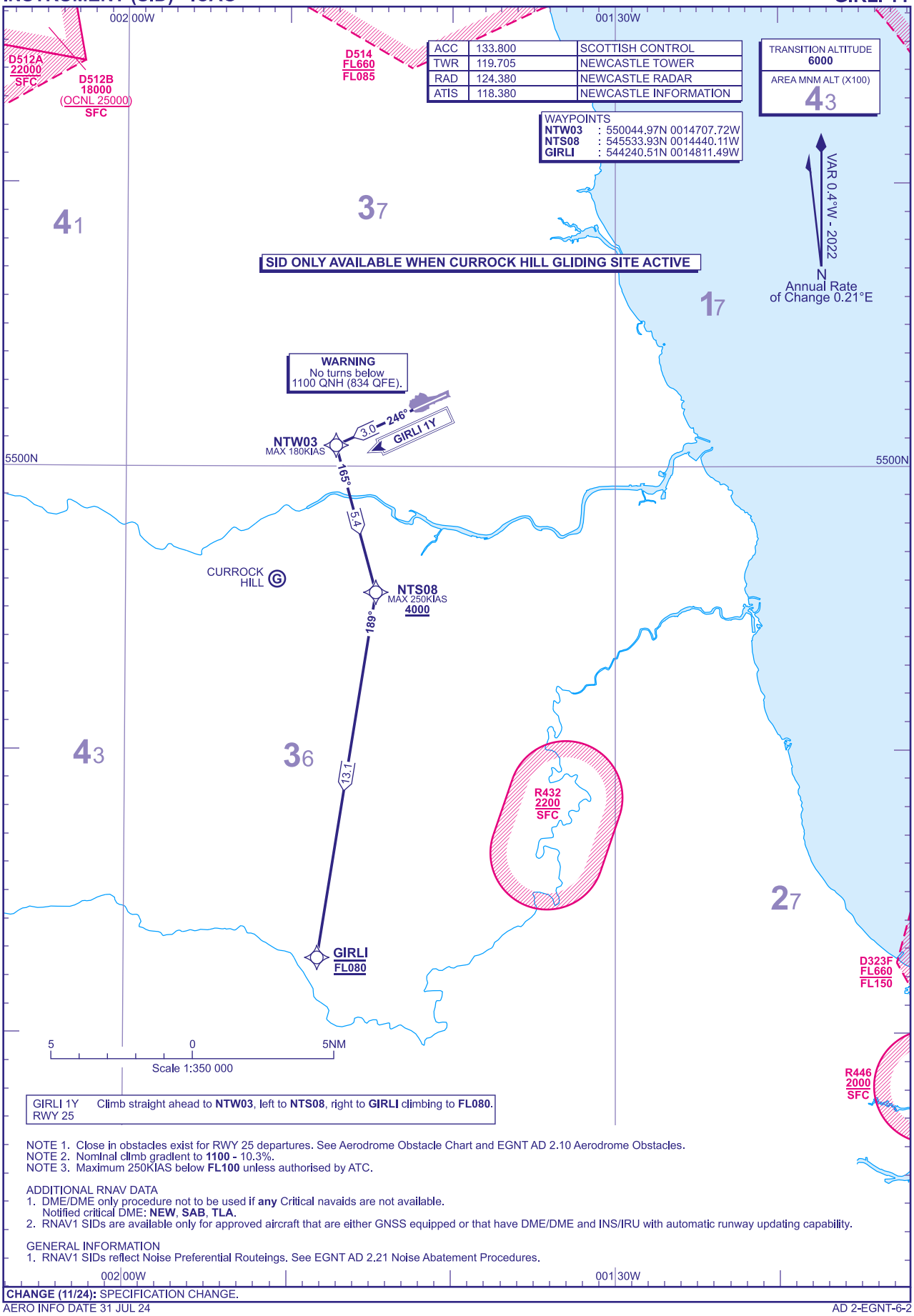
CHANGE (11/24): SPECIFICATION CHANGE.

AERO INFO DATE 30 JUL 24
AD 2-EGNT-6-1

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

NEWCASTLE
RWY 25
GIRLI 1Y



NOTE 1. Close in obstacles exist for RWY 25 departures. See Aerodrome Obstacle Chart and EGNT AD 2.10 Aerodrome Obstacles.
NOTE 2. Nominal climb gradient to **1100** - 10.3%.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure not to be used if **any** Critical navaids are not available.
   Notified critical DME: **NEW**, **SAB**, **TLA**.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGNT AD 2.21 Noise Abatement Procedures.

002 00W 001 30W

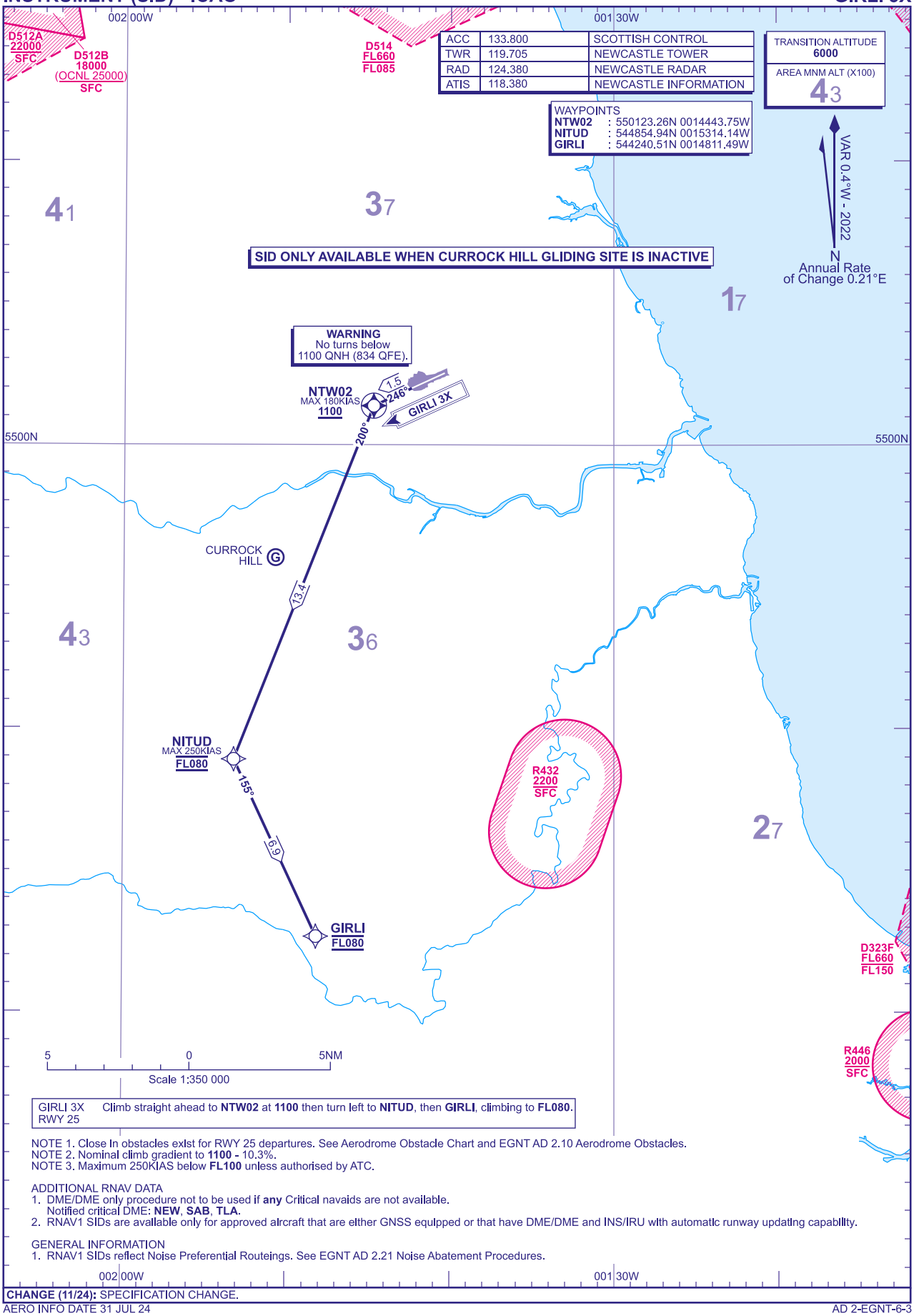
CHANGE (11/24): SPECIFICATION CHANGE.

AERO INFO DATE 31 JUL 24
AD 2-EGNT-6-2

RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

NEWCASTLE
RWY 25
GIRLI 3X



GIRLI 3X RWY 25 — Climb straight ahead to **NTW02** at **1100** then turn left to **NITUD**, then **GIRLI**, climbing to **FL080**.

NOTE 1. Close In obstacles exist for RWY 25 departures. See Aerodrome Obstacle Chart and EGNT AD 2.10 Aerodrome Obstacles.
NOTE 2. Nominal climb gradient to **1100** - 10.3%.
NOTE 3. Maximum 250KIAS below **FL100** unless authorised by ATC.

ADDITIONAL RNAV DATA
1. DME/DME only procedure not to be used if **any** Critical navaids are not available.
   Notified critical DME: **NEW**, **SAB**, **TLA**.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.

GENERAL INFORMATION
1. RNAV1 SIDs reflect Noise Preferential Routeings. See EGNT AD 2.21 Noise Abatement Procedures.

CHANGE (11/24): SPECIFICATION CHANGE.

AERO INFO DATE 31 JUL 24

I

Standard Instrument Departure Coding Tables

NEWCASTLE Runway 07 GIRLI 1T

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GIRLI1T	001	CF	NTE05	550446.74N 0013155.15W	N	066° (065.2°)	-0.4	5.3	-	+2000	-210	RNAV1
GIRLI1T	002	TF	NTS12	545830.52N 0013156.79W	N	181° (180.1°)	-0.4	6.3	RIGHT	+4000	-250	RNAV1
GIRLI1T	003	TF	GIRLI	544240.51N 0014811.49W	N	211° (210.7°)	-0.4	18.4	RIGHT	FL080	-	RNAV1

NEWCASTLE Runway 25 GIRLI 1Y

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GIRLI1Y	001	CA	-	-	-	246° (245.2°)	-0.4	-	-	+1100	-	RNAV1
GIRLI1Y	002	DF	NTW03	550044.97N 0014707.72W	N	-	-0.4	3.0	LEFT	-	-180	RNAV1
GIRLI1Y	003	TF	NTS08	545533.93N 0014440.11W	N	165° (164.9°)	-0.4	5.4	RIGHT	+4000	-250	RNAV1
GIRLI1Y	004	TF	GIRLI	544240.51N 0014811.49W	N	189° (189.0°)	-0.4	13.1	-	FL080	-	RNAV1

NEWCASTLE Runway 25 GIRLI 3X

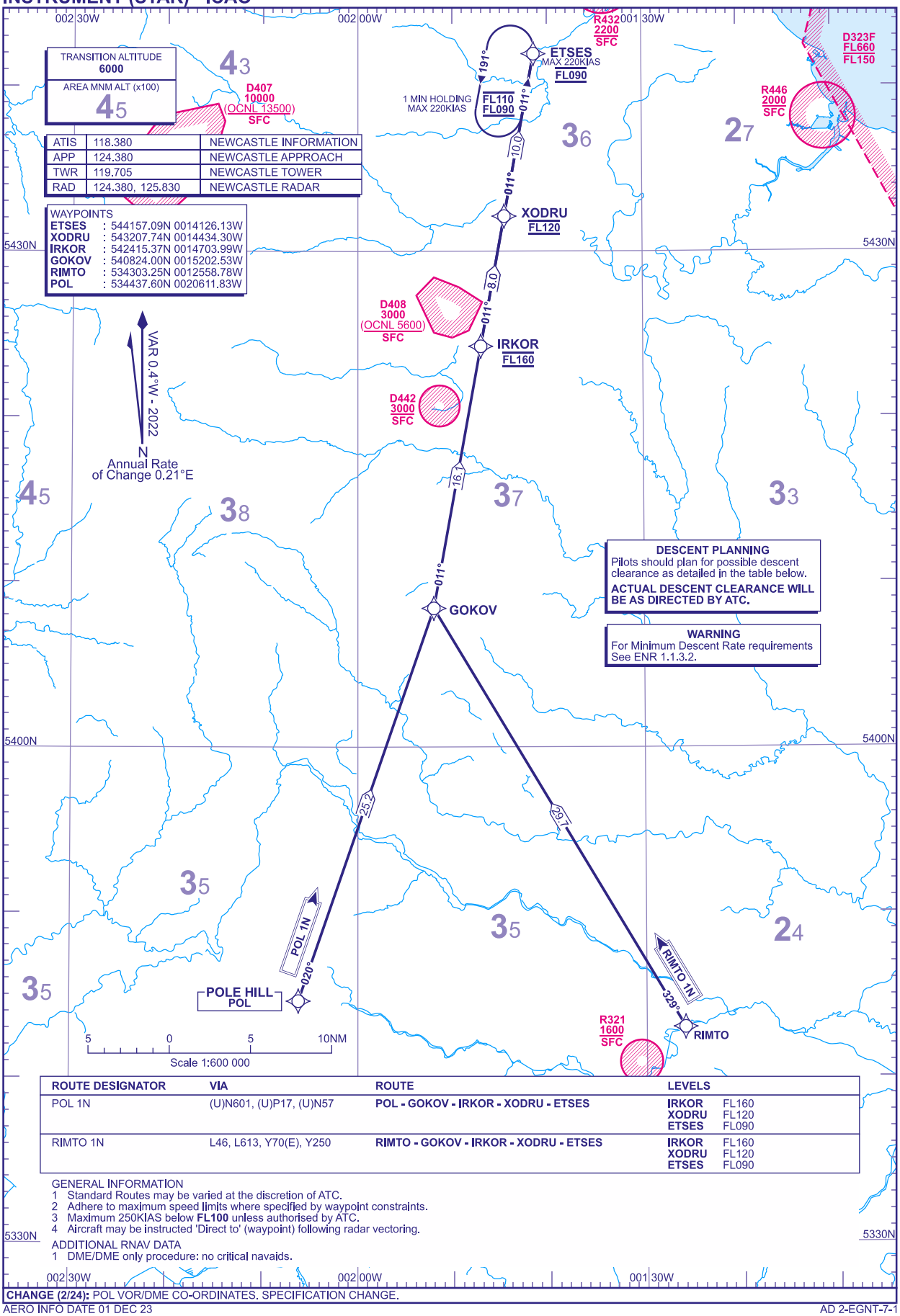
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GIRLI3X	001	CF	NTW02	550123.26N 0014443.75W	Y	246° (245.2°)	-0.4	1.5	LEFT	+1100	-180	RNAV1
GIRLI3X	002	CF	NITUD	544854.94N 0015314.14W	N	200° (199.6°)	-0.4	13.4	LEFT	FL080	-250	RNAV1
GIRLI3X	003	TF	GIRLI	544240.51N 0014811.49W	N	155° (154.9°)	-0.4	6.9	-	FL080	-	RNAV1

CHANGE (11/24): SPECIFICATION CHANGE.
AERO INFO DATE 01 AUG 24

RNAV1 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

NEWCASTLE POL 1N RIMTO 1N



ATIS	118.380	NEWCASTLE INFORMATION
APP	124.380	NEWCASTLE APPROACH
TWR	119.705	NEWCASTLE TOWER
RAD	124.380, 125.830	NEWCASTLE RADAR

WAYPOINTS
ETSES : 544157.09N 0014126.13W
XODRU : 543207.74N 0014434.30W
IRKOR : 542415.37N 0014703.99W
GOKOV : 540824.00N 0015202.53W
RIMTO : 534303.25N 0012558.78W
POL : 534437.60N 0020611.83W

ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
POL 1N	(U)N601, (U)P17, (U)N57	**POL - GOKOV - IRKOR - XODRU - ETSES**	**IRKOR** FL160 **XODRU** FL120 **ETSES** FL090
RIMTO 1N	L46, L613, Y70(E), Y250	**RIMTO - GOKOV - IRKOR - XODRU - ETSES**	**IRKOR** FL160 **XODRU** FL120 **ETSES** FL090

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below **FL100** unless authorised by ATC.
4 Aircraft may be instructed 'Direct to' (waypoint) following radar vectoring.

ADDITIONAL RNAV DATA
1 DME/DME only procedure: no critical navaids.

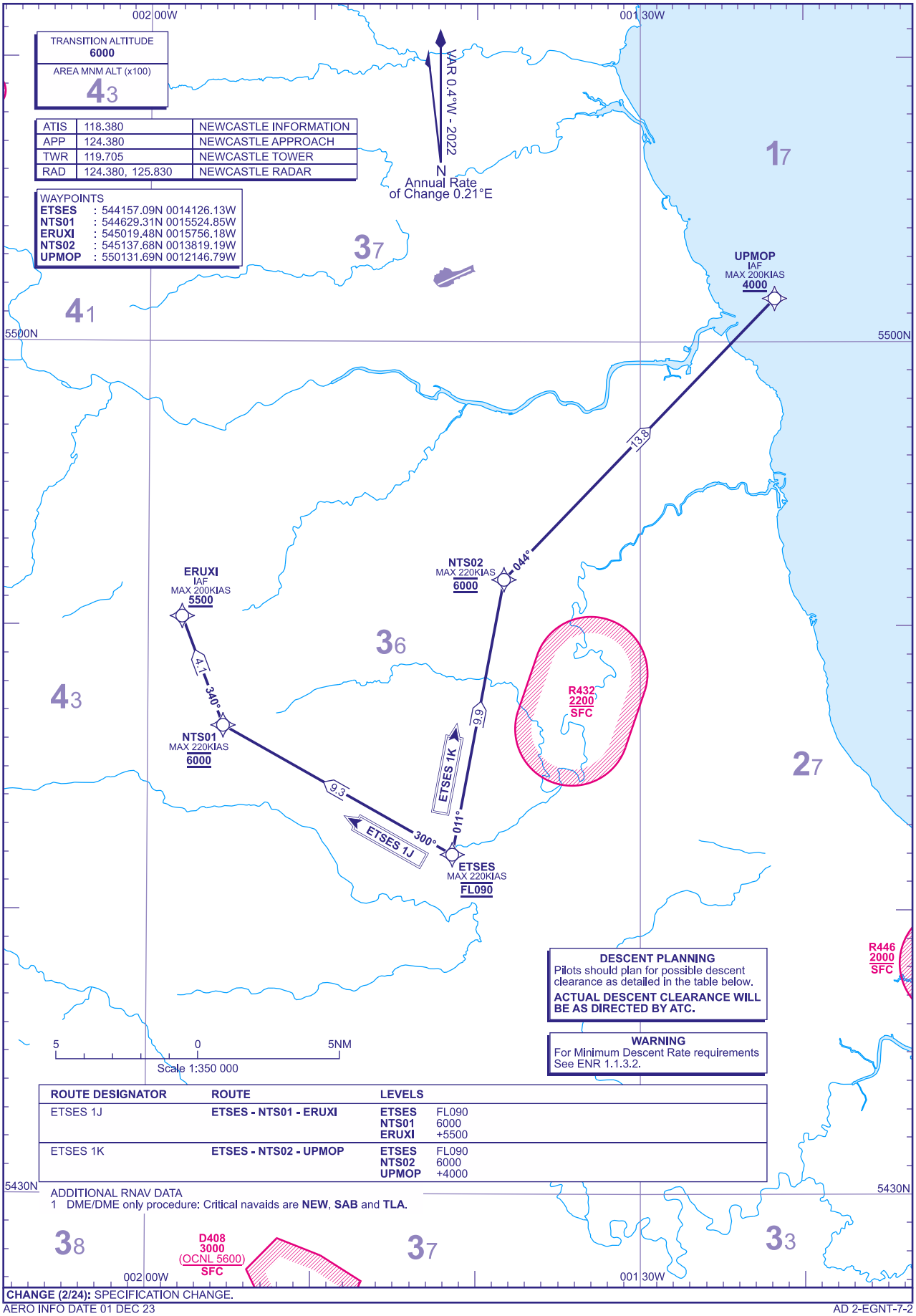
CHANGE (2/24): POL VOR/DME CO-ORDINATES. SPECIFICATION CHANGE.

AERO INFO DATE 01 DEC 23

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

NEWCASTLE
RWY 07/25
ETSES 1J 1K



ROUTE DESIGNATOR	ROUTE	LEVELS	
ETSES 1J	**ETSES - NTS01 - ERUXI**	**ETSES** **NTS01** **ERUXI**	FL090 6000 +5500
ETSES 1K	**ETSES - NTS02 - UPMOP**	**ETSES** **NTS02** **UPMOP**	FL090 6000 +4000

ADDITIONAL RNAV DATA
1 DME/DME only procedure: Critical navaids are **NEW**, **SAB** and **TLA**.

CHANGE (2/24): SPECIFICATION CHANGE.

AERO INFO DATE 01 DEC 23

AD 2-EGNT-7-2

Standard Instrument Arrival Coding Tables

NEWCASTLE POL 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
POL1N	001	IF	POL	534437.60N 0020611.83W	N	-	-	-	-	-	-	RNAV1
POL1N	002	TF	GOKOV	540824.00N 0015202.53W	N	020° (019.3°)	-0.4	25.2	LEFT	-	-	RNAV1
POL1N	003	TF	IRKOR	542415.37N 0014703.99W	N	011° (010.4°)	-0.4	16.1	-	FL160	-	RNAV1
POL1N	004	TF	XODRU	543207.74N 0014434.30W	N	011° (010.4°)	-0.4	8.0	-	FL120	-	RNAV1
POL1N	005	TF	ETSES	544157.09N 0014126.13W	N	011° (010.5°)	-0.4	10.0	-	FL090	-220	RNAV1

NEWCASTLE RIMTO 1N

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RIMTO1N	001	IF	RIMTO	534303.25N 0012558.78W	N	-	-	-	-	-	-	RNAV1
RIMTO1N	002	TF	GOKOV	540824.00N 0015202.53W	N	329° (328.9°)	-0.4	29.7	RIGHT	-	-	RNAV1
RIMTO1N	003	TF	IRKOR	542415.37N 0014703.99W	N	011° (010.4°)	-0.4	16.1	-	FL160	-	RNAV1
RIMTO1N	004	TF	XODRU	543207.74N 0014434.30W	N	011° (010.4°)	-0.4	8.0	-	FL120	-	RNAV1
RIMTO1N	005	TF	ETSES	544157.09N 0014126.13W	N	011° (010.5°)	-0.4	10.0	-	FL090	-220	RNAV1

CHANGE (2/24): POL VOR/DME CO-ORDINATES. SPECIFICATION CHANGE.
AERO INFO DATE 01 DEC 23

RNAV Hold Coding Tables

NEWCASTLE ETSES Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ETSES	-	-	ETSES	544157.09N 0014126.13W	N	011° (010.5°)	-0.4	1 MIN	LEFT	-FL110 +FL090	-220	RNAV1

CHANGE (2/24): SPECIFICATION CHANGE.
AERO INFO DATE 04 DEC 24

Transition Coding Tables

NEWCASTLE ETSES 1J

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ETSES1J	001	IF	ETSES	544157.09N 0014126.13W	N	-	-	-	-	FL090	-220	RNAV1
ETSES1J	002	TF	NTS01	544629.31N 0015524.85W	N	300° (299.4°)	-0.4	9.3	RIGHT	6000	-220	RNAV1
ETSES1J	003	TF	ERUXI	545019.48N 0015756.18W	N	340° (339.2°)	-0.4	4.1	RIGHT	5500	-200	RNAV1

NEWCASTLE ETSES 1K

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ETSES1K	001	IF	ETSES	544157.09N 0014126.13W	N	-	-	-	-	FL090	-220	RNAV1
ETSES1K	002	TF	NTS02	545137.68N 0013819.19W	N	011° (010.5°)	-0.4	9.9	RIGHT	6000	-220	RNAV1
ETSES1K	003	TF	UPMOP	550131.69N 0012146.79W	N	044° (043.8°)	-0.4	13.8	LEFT	4000	-200	RNAV1

CHANGE (2/24): SPECIFICATION CHANGE.
AERO INFO DATE 04 DEC 23

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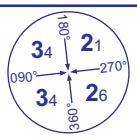
INSTRUMENT APPROACH CHART - ICAO

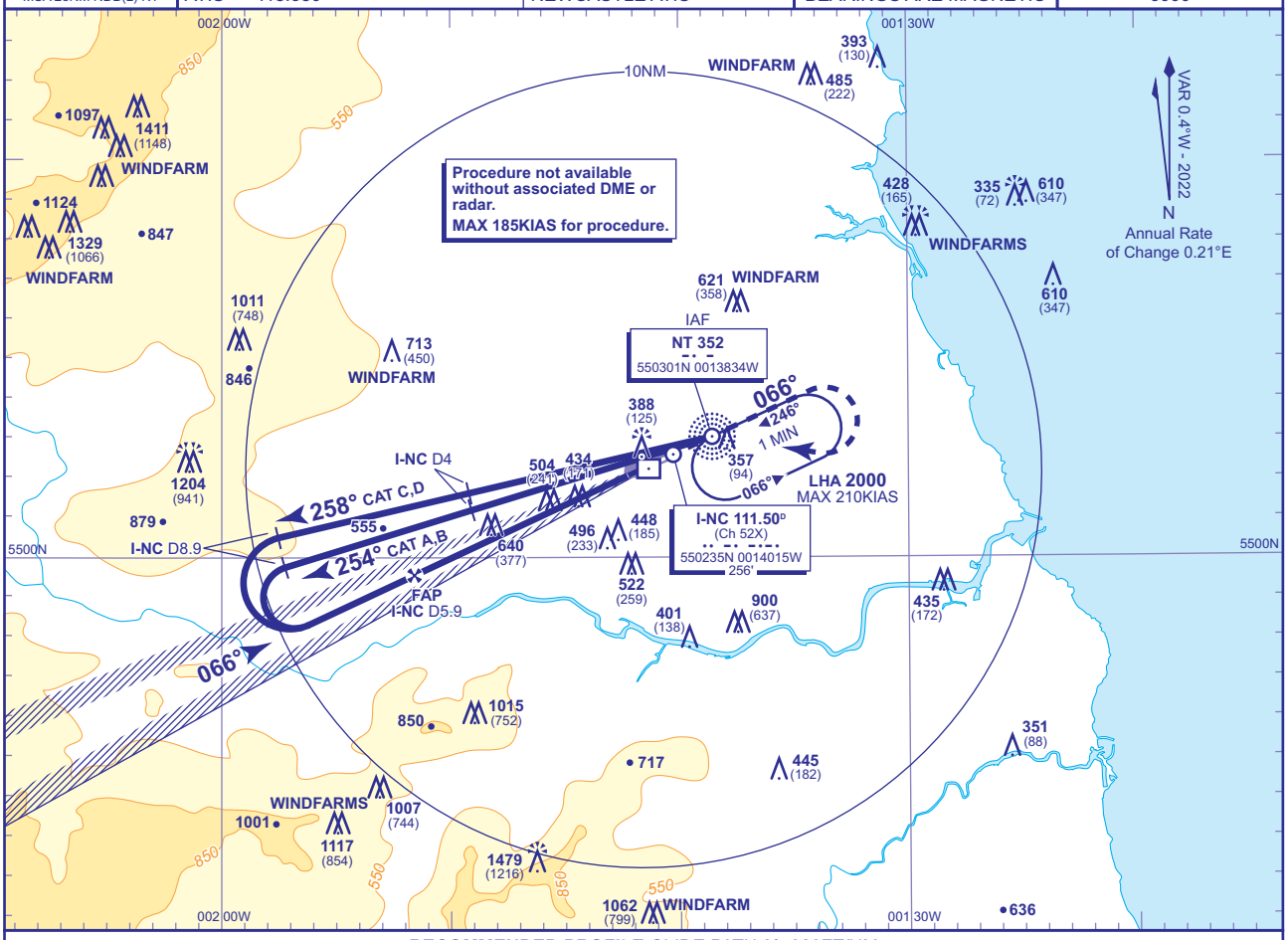
NEWCASTLE ILS/DME/NDB(L) RWY 07

(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NT

APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	266	TRANSITION ALTITUDE 6000
TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	263	
	121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION 1479 AMSL (1216) (ABOVE THR)		
RAD	124.380, 125.830	NEWCASTLE RADAR			
ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC		

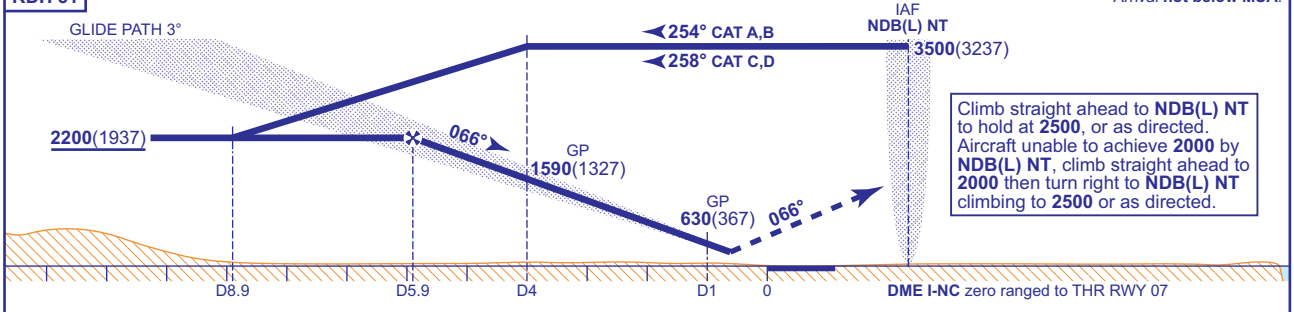


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-NC	5	4	3	2	1
ALT(HGT)	**1910**(1647)	**1590**(1327)	**1270**(1007)	**950**(687)	**630**(367)

RDH 51

Arrival **not below MSA**.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**431**(168)	**439**(176)	**447**(184)	**458**(195)
	CAT II	**336**(73)	**346**(83)	**361**(98)	**373**(110)
VM(C)OCA (OCH AAL)	Total Area	**750**(484)	**840**(574)	**1070**(804)	**1070**(804)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-NC
Inform ATC. Radar Ranges will be provided at 4NM and 9NM outbound and approaching the FAP and at 4NM and 1NM inbound.

NOTE 1 Lowest altitude to commence procedure from hold after missed approach is **2500**.
2 Aircraft will normally be required to hold not lower than **3500**.

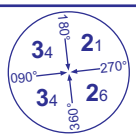
CHANGE (7/24): MAG VAR. MAG TRACKS. DME NEW REFRENCES REMOVED. OCA(OCH) CAT II ALL MINIMA REVISED. VM(C)OCA (OCH AAL) B MINIMA REVISED.

AERO INFO DATE 11 APR 24

AD 2-EGNT-8-1

INSTRUMENT APPROACH CHART - ICAO

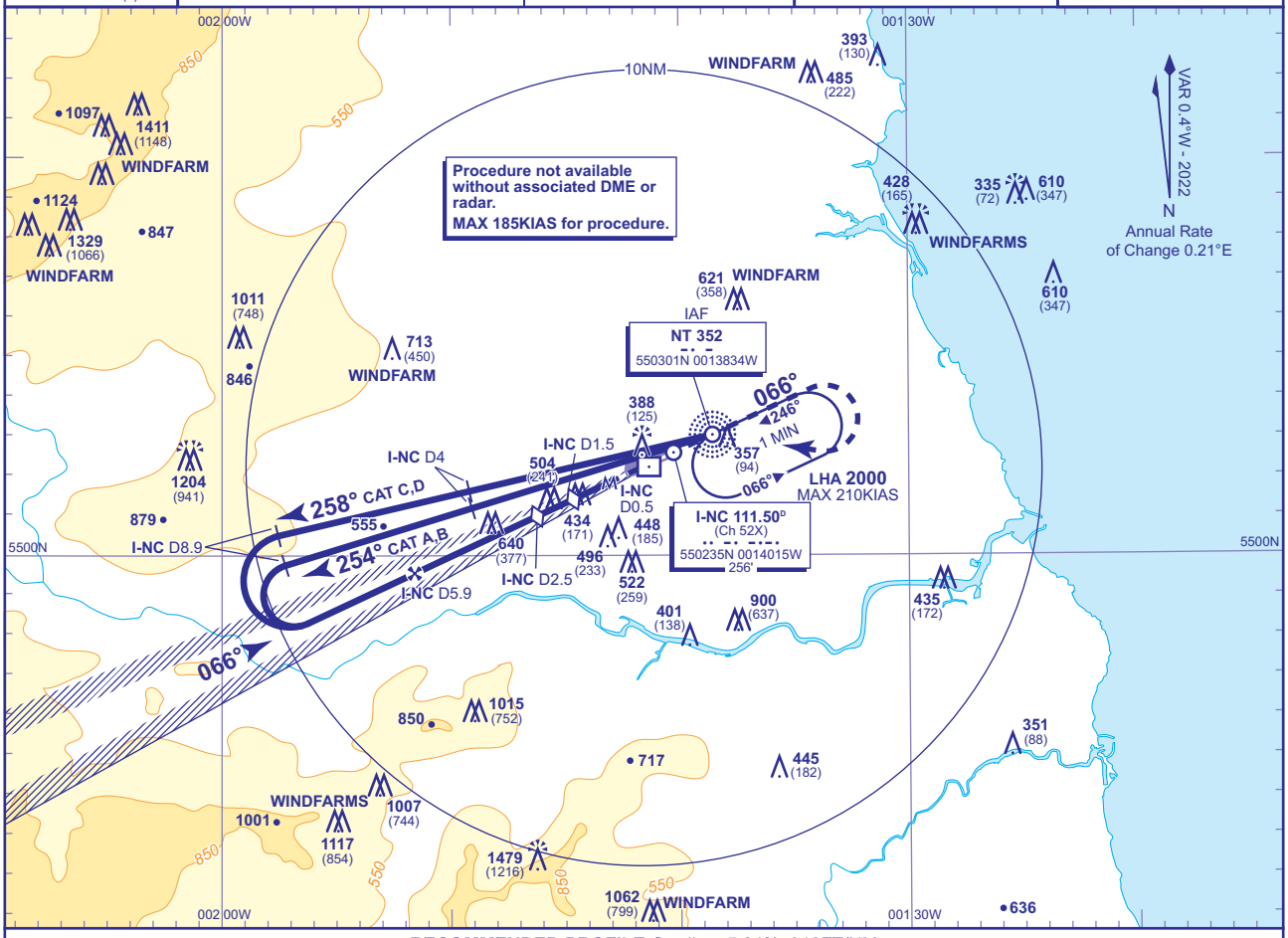
NEWCASTLE
LOC/DME/NDB(L)
RWY 07
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NT

APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	266
TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	263
	121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION	
RAD	124.380, 125.830	NEWCASTLE RADAR	1479 AMSL (1216) (ABOVE THR)	
ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC	

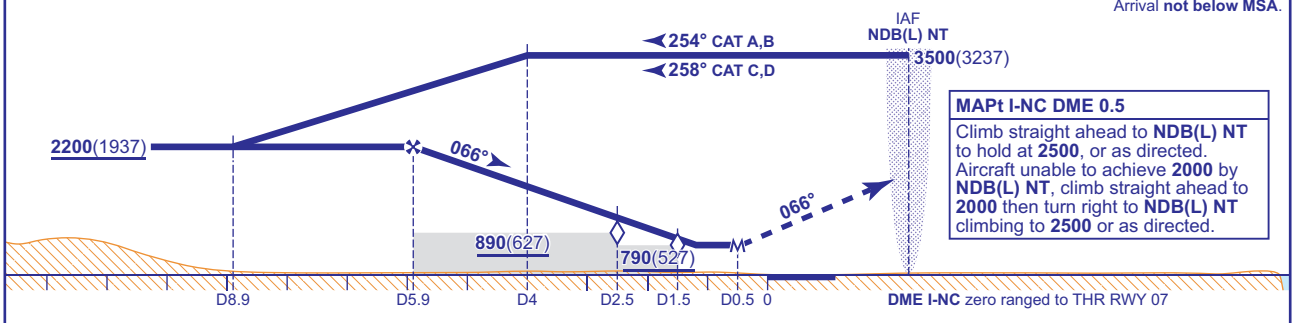
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 319FT/NM

DME I-NC	5	4	3	2.5 **(SDF)**	2	1.5 **(SDF)**
ALT(HGT)	**1910**(1647)	**1590**(1327)	**1270**(1007)	**1110**(847)	**950**(687)	**790**(527)

Arrival **not below MSA**.



MAPt I-NC DME 0.5
Climb straight ahead to **NDB(L) NT** to hold at **2500**, or as directed. Aircraft unable to achieve **2000** by **NDB(L) NT**, climb straight ahead to **2000** then turn right to **NDB(L) NT** climbing to **2500** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**710**(447)	**710**(447)	**710**(447)	**710**(447)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(484)	**840**(574)	**1070**(804)	**1070**(804)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME I-NC
Inform ATC. Radar Ranges will be provided at 4NM and 9NM outbound and approaching the FAP and at 4NM and 1NM inbound.

NOTE 1 Lowest altitude to commence procedure from hold after missed approach is **2500**.
2 Aircraft will normally be required to hold not lower than **3500**.

CHANGE (7/24): MAG VAR. MAG TRACKS. DME NEW REMOVED FROM PROCEDURE. MOCA REVISED. VM(C)OCA (OCH AAL) B MINIMA REVISED. DME NOTES.

AERO INFO DATE 02 MAY 24

AD 2-EGNT-8-2

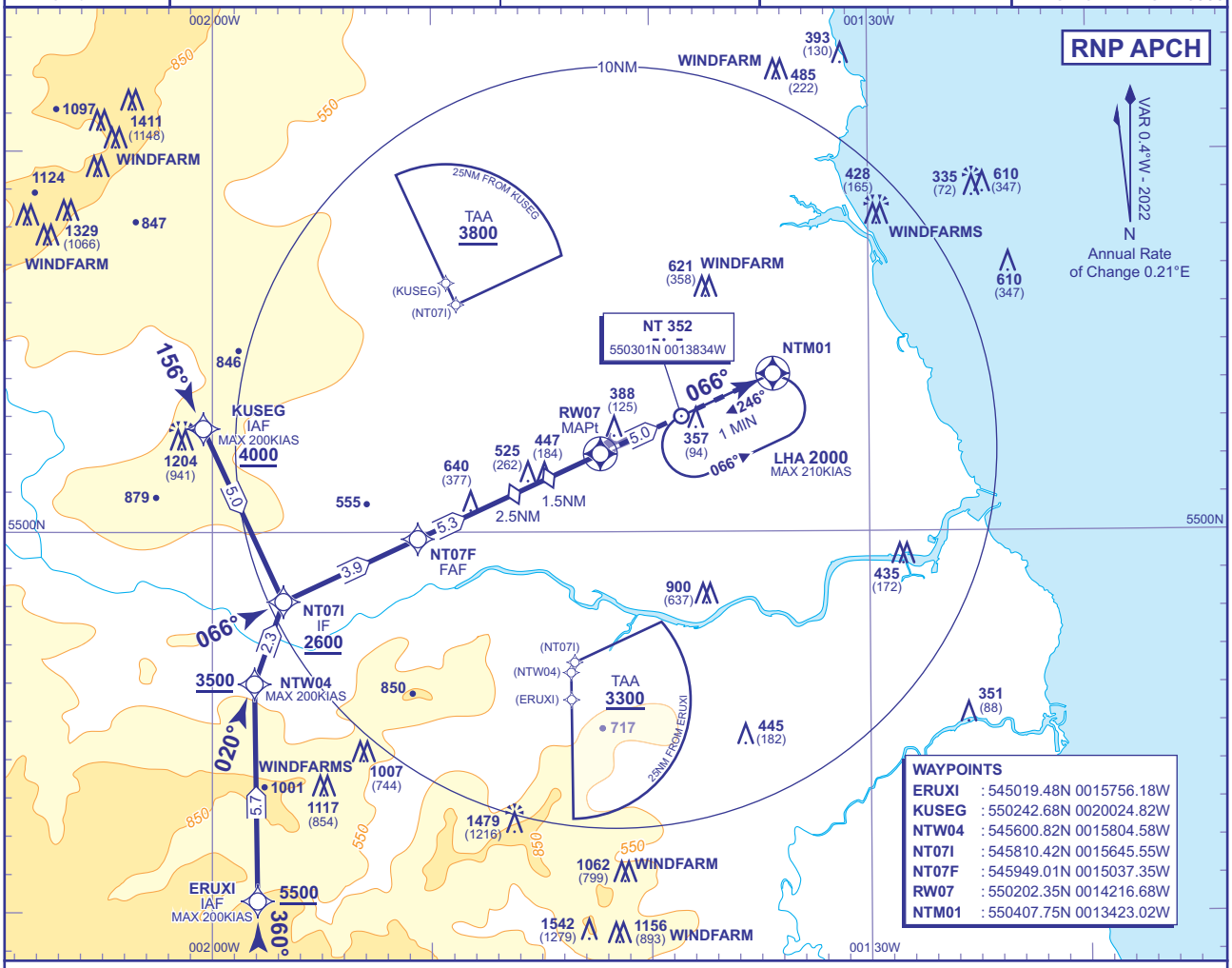
INSTRUMENT APPROACH CHART - ICAO

NEWCASTLE
RNP
RWY 07
(ACFT CAT A,B,C,D)

36 MSA 25NM ARP	APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	266
	TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	263
		121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION 1542 AMSL (1279) (ABOVE THR)	
	RAD	124.380, 125.830	NEWCASTLE RADAR		
	ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC	

MIN TEMP -15°C

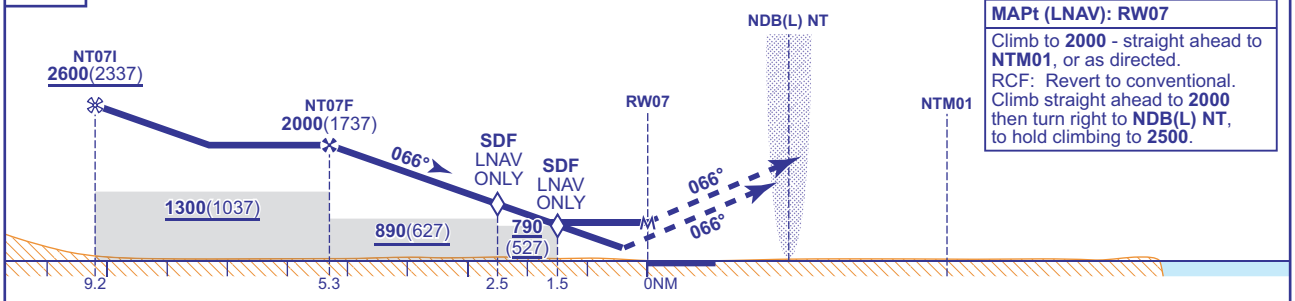
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV 5.24%), 318FT /NM

NM to RW07	5	4	3	2	1
ALT(HGT)	**1910**(1647)	**1590**(1327)	**1270**(1007)	**950**(687)	**630**(367)

TCH 51



MAPt (LNAV): RW07

Climb to **2000** - straight ahead to **NTM01**, or as directed.
RCF: Revert to conventional. Climb straight ahead to **2000** then turn right to **NDB(L) NT**, to hold climbing to **2500**.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**570**(307)	**580**(317)	**590**(327)	**600**(337)
	LNAV	**700**(437)	**700**(437)	**700**(437)	**700**(437)
VM(C)OCA (OCH AAL)	Total Area	**750**(484)	**840**(574)	**1040**(774)	**1040**(774)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

CHANGE (7/24): MAG VAR. MAG TRACKS. MOCA REVISED. VM(C)OCA (OCH AAL) B MINIMA REVISED.

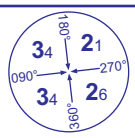
AERO INFO DATE 17 APR 24

AD 2-EGNT-8-3

INSTRUMENT APPROACH CHART - ICAO

NEWCASTLE NDB(L)/DME RWY 07

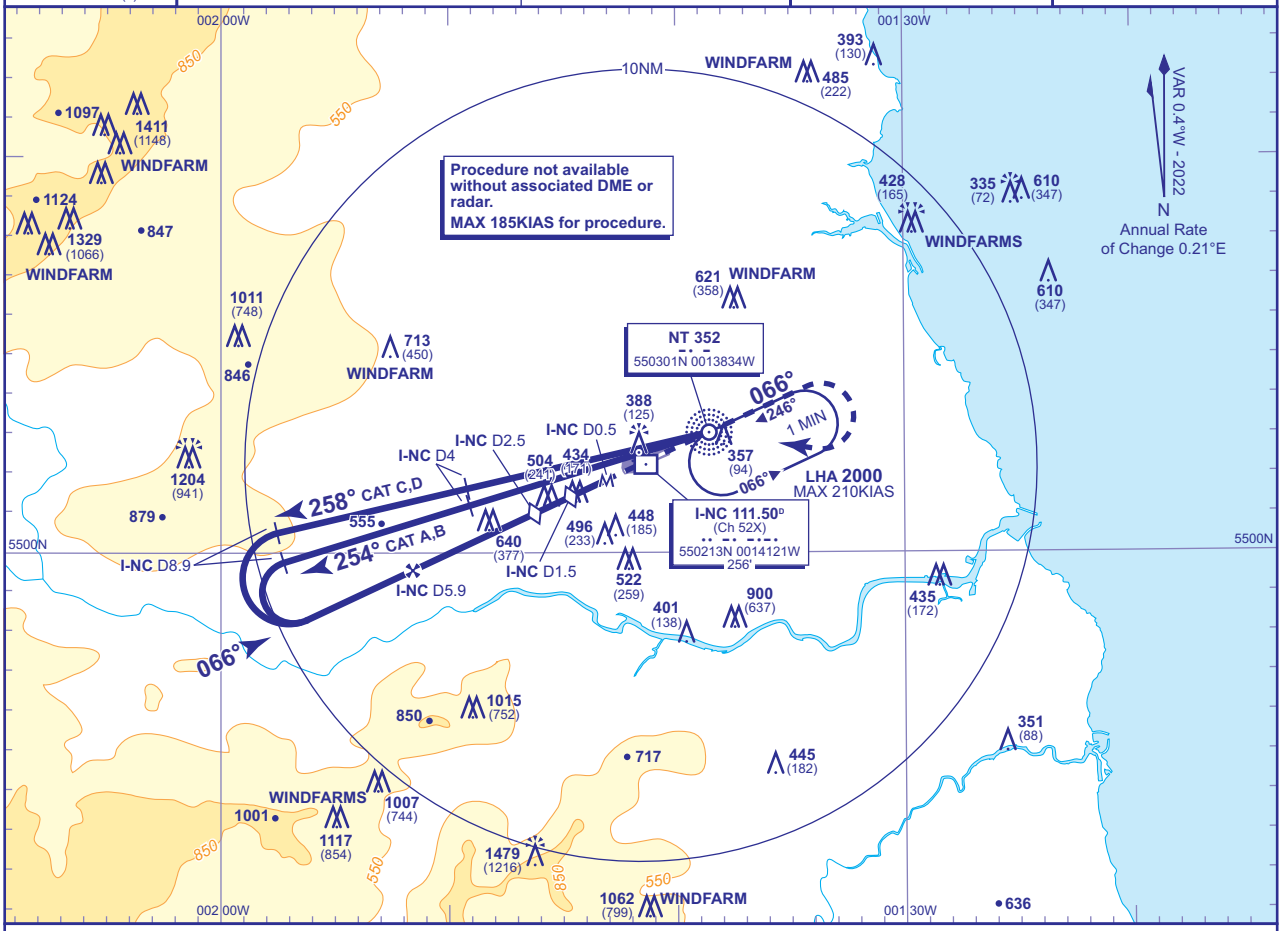
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NT

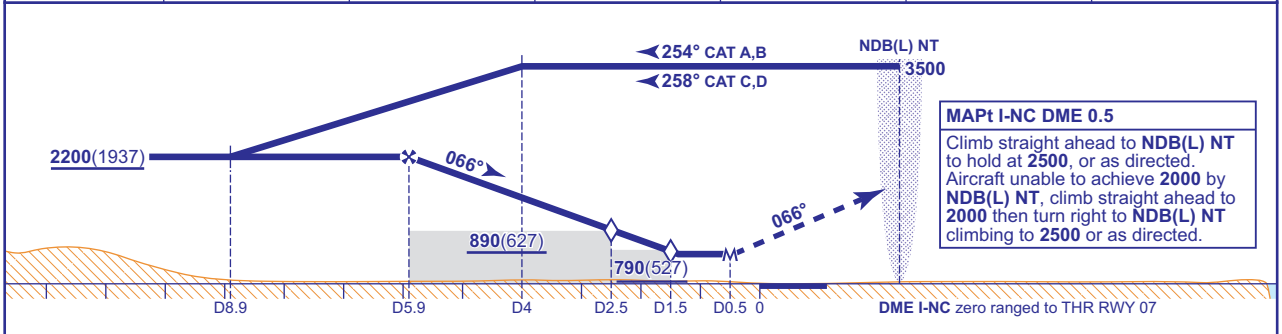
APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	**266**
TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	**263**
	121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION **1479 AMSL** (1216) (ABOVE THR)	
RAD	124.380, 125.830	NEWCASTLE RADAR		
ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.26%, 320FT/NM

DME I-NC	5	4	3	2.5 **(SDF)**	2	1.5 **(SDF)**
ALT(HGT)	**1910**(1647)	**1590**(1327)	**1270**(1007)	**1110**(847)	**950**(687)	**790**(527)



MAPt I-NC DME 0.5

Climb straight ahead to **NDB(L) NT** to hold at **2500**, or as directed. Aircraft unable to achieve **2000** by **NDB(L) NT**, climb straight ahead to **2000** then turn right to **NDB(L) NT** climbing to **2500** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**710**(447)	**710**(447)	**710**(447)	**710**(447)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(484)	**840**(574)	**1070**(804)	**1070**(804)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	750	640	530	430

AIRCRAFT UNABLE TO RECEIVE DME I-NC
Inform ATC. Radar Ranges will be provided at 4NM and 9NM outbound and approaching the FAP and at 4NM and 1NM inbound.

NOTE 1 Lowest altitude to commence procedure from hold after missed approach is **2500**.
2 Aircraft will normally be required to hold not lower than **3500**.

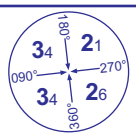
CHANGE (7/24): MAG VAR. MAG TRACKS. DME NEW REMOVED FROM PROCEDURE. MOCA REVISED. VM(C)OCA (OCH AAL) B MINIMA REVISED. DME NOTES.

AERO INFO DATE 02 MAY 24

AD 2-EGNT-8-4

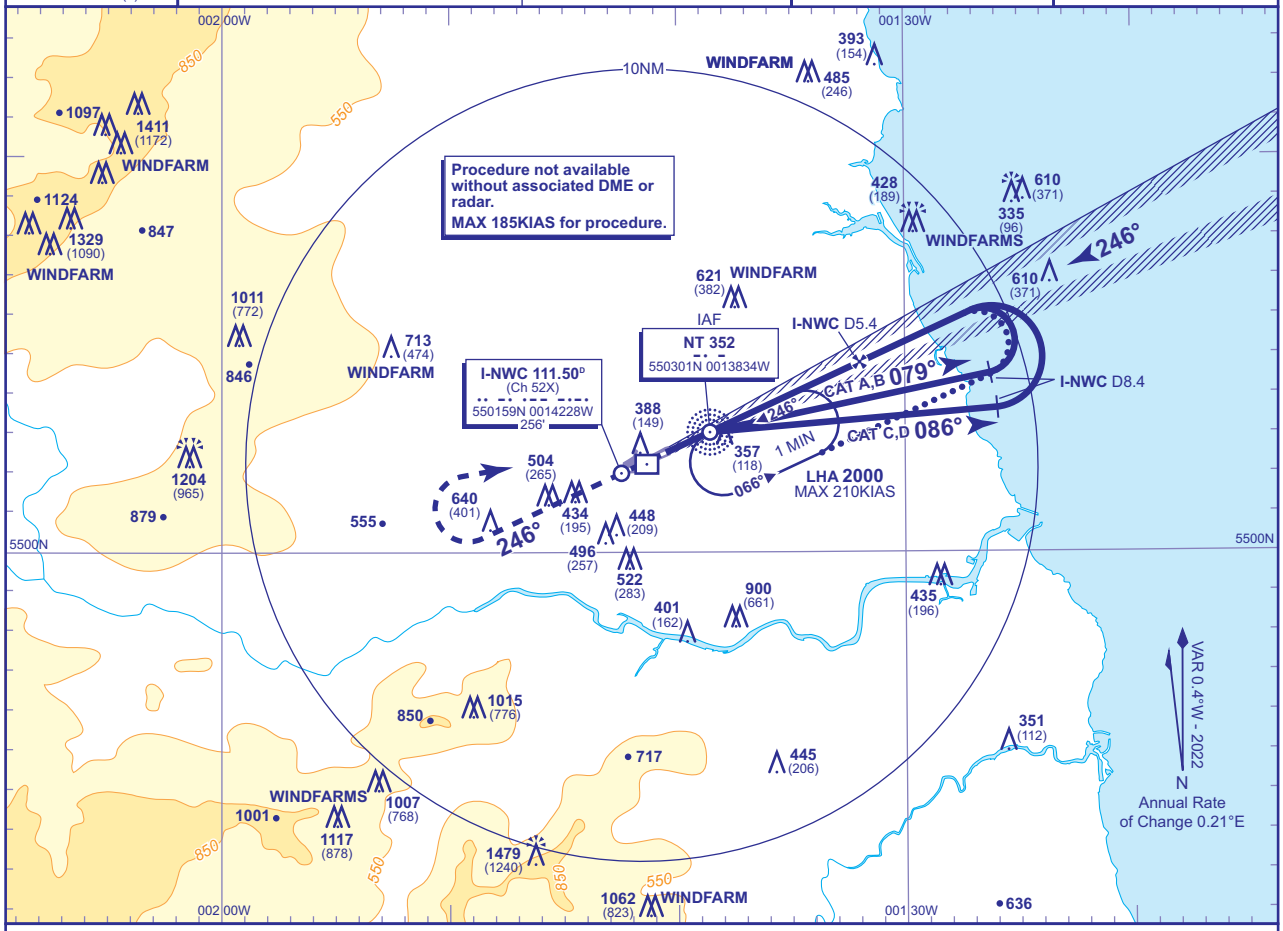
INSTRUMENT APPROACH CHART - ICAO

NEWCASTLE ILS/DME/NDB(L) RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NT

APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	266	TRANSITION ALTITUDE 6000
TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	239	
	121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION 1479 AMSL (1240) (ABOVE THR)		
RAD	124.380, 125.830	NEWCASTLE RADAR			
ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC		

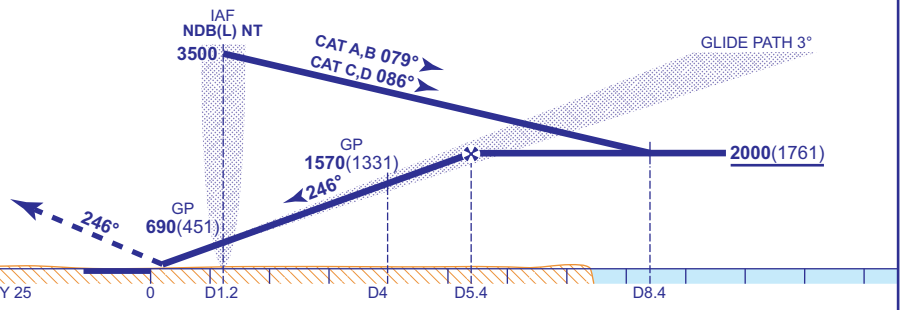


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-NWC	5	4	3	2	1
ALT(HGT)	**1880**(1641)	**1560**(1321)	**1250**(1011)	**930**(691)	**610**(371)

RDH 51

Climb straight ahead to **2500** or **I-NWC** D4, whichever is later, then turn right to **NDB(L) NT** at **2500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**388**(149)	**396**(157)	**406**(167)	**416**(177)
	CAT II	**298**(59)	**308**(69)	**322**(83)	**335**(96)
VM(C)OCA (OCH AAL)	Total Area	**750**(484)	**840**(574)	**1070**(804)	**1070**(804)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE RACETRACK FROM NDB(L) NT HOLD
Aircraft commencing the procedure from NDB(L) NT hold extend the outbound leg of the racetrack descending to **not below 2000**(1761). At I-NWC D8.4 turn left to intercept the LOC. When established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-NWC
Inform ATC. Radar Ranges will be provided at 8.5NM outbound and approaching the FAP and at 4NM inbound.

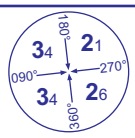
NOTE 1 Lowest altitude to commence procedure from hold after missed approach is **2500**.
2 Aircraft will normally be required to hold not lower than **3500**.

CHANGE (7/24): MAG VAR. MAG TRACKS. DME NEW REMOVED FROM PROCEDURE. OCA(OCH) MINIMA REVISED. VM(C)OCA (OCH AAL) B MINIMA REVISED.

AERO INFO DATE 12 APR 24

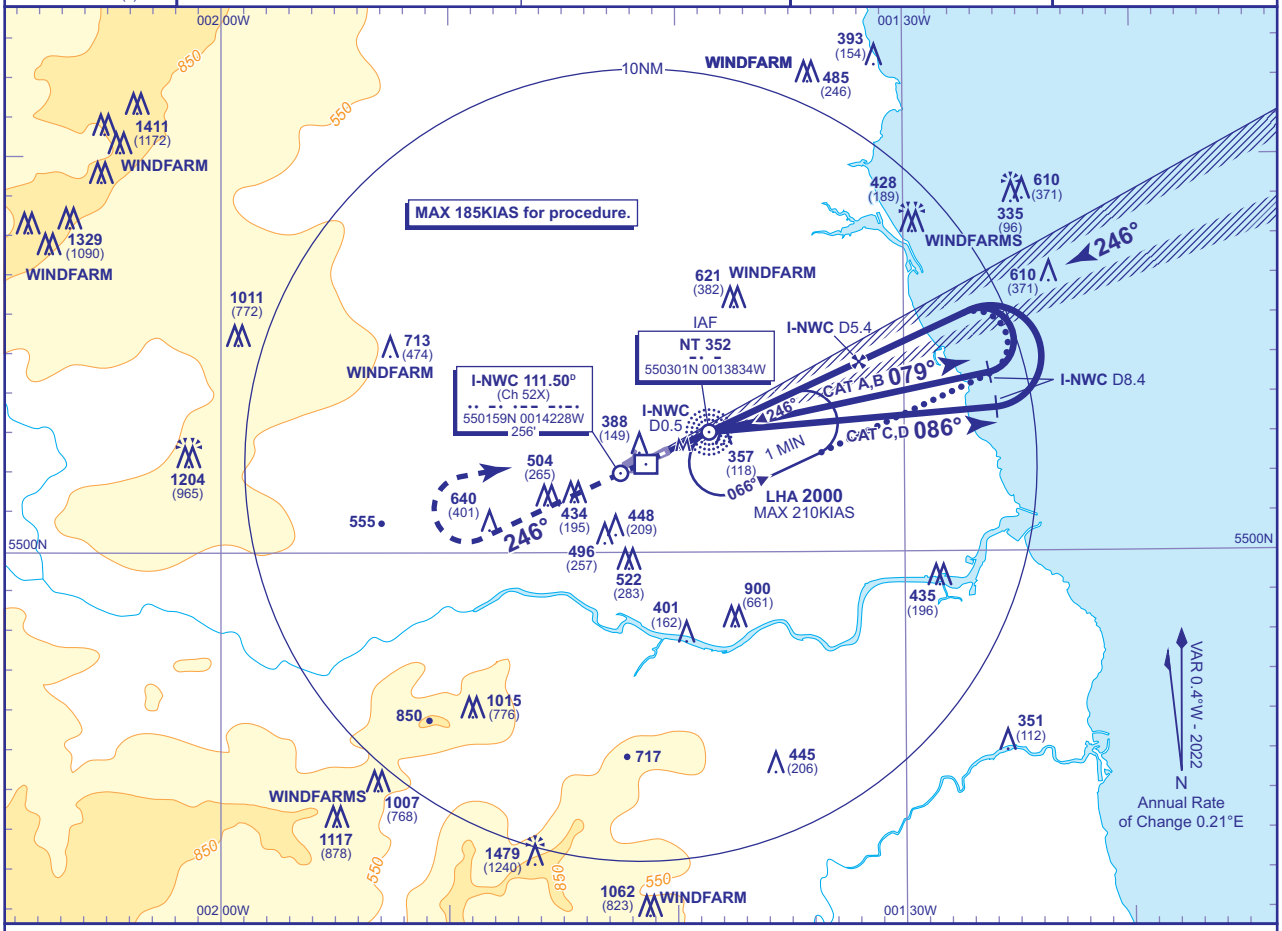
INSTRUMENT APPROACH CHART - ICAO

NEWCASTLE LOC/DME/NDB(L) RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NT

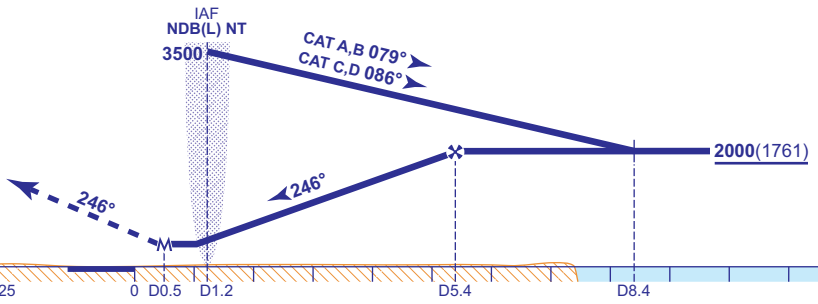
APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	**266**	TRANSITION ALTITUDE **6000**
TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	**239**	
	121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION **1479 AMSL** (1240) (ABOVE THR)		
RAD	124.380, 125.830	NEWCASTLE RADAR			
ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.21%, 317FT/NM

DME I-NWC	5	4	3	2	1
ALT(HGT)	**1870**(1631)	**1560**(1321)	**1240**(1001)	**920**(681)	**610**(371)

MAPt I-NWC DME 0.5
Climb straight ahead to **2500** or **I-NWC** D4, whichever is later, then turn right to **NDB(L) NT** at **2500** or as directed.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**590**(351)	**590**(351)	**590**(351)	**590**(351)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(484)	**840**(574)	**1070**(804)	**1070**(804)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE RACETRACK FROM NDB(L) NT HOLD
Aircraft commencing the procedure from NDB(L) NT hold extend the outbound leg of the racetrack descending to **not below 2000**(1761). At I-NWC D8.4 turn left to intercept the LOC. When established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-NWC
Inform ATC. Radar Ranges will be provided at 8.5NM outbound and approaching the FAP and at 4NM inbound.

NOTE 1 Lowest altitude to commence procedure from hold after missed approach is **2500**.
2 Aircraft will normally be required to hold not lower than **3500**.

CHANGE (7/24): MAG VAR. MAG TRACKS. DME NEW REMOVED FROM PROCEDURE. VM(C)OCA (OCH AAL) B MINIMA REVISED. DME NOTE.

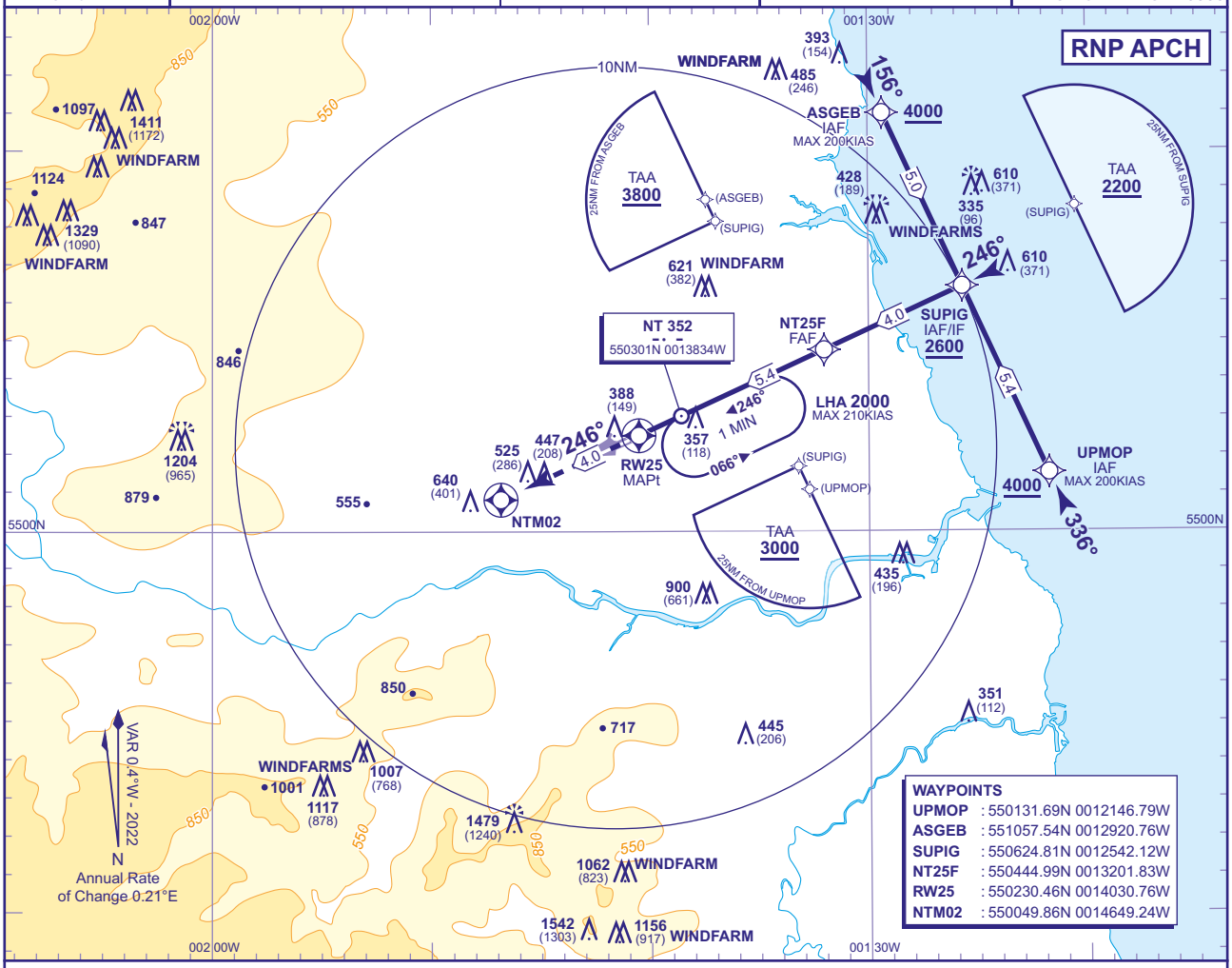
AERO INFO DATE 17 APR 24 AD 2-EGNT-8-6

INSTRUMENT APPROACH CHART - ICAO

NEWCASTLE
RNP
RWY 25
(ACFT CAT A,B,C,D)

36 MSA 25NM ARP	APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	266
	TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	239
		121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION 1542 AMSL (1303) (ABOVE THR)	
	RAD	124.380, 125.830	NEWCASTLE RADAR		
	ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC	

MIN TEMP -15°C
TRANSITION ALTITUDE 6000



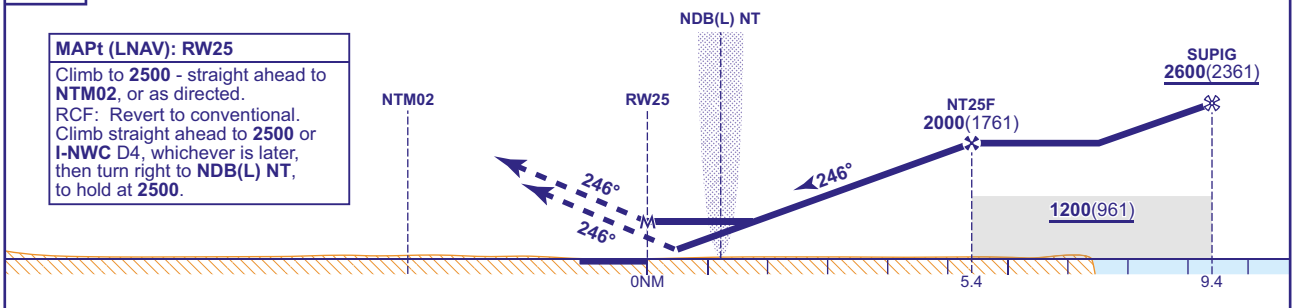
RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.0° (LNAV 5.24%), 318FT /NM

NM to RW25	5	4	3	2	1
ALT(HGT)	**1880**(1641)	**1560**(1321)	**1250**(1011)	**930**(691)	**610**(371)

TCH 51

MAPt (LNAV): RW25

Climb to **2500** - straight ahead to **NTM02**, or as directed.
RCF: Revert to conventional. Climb straight ahead to **2500** or **I-NWC** D4, whichever is later, then turn right to **NDB(L) NT**, to hold at **2500**.



Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**490**(251)	**490**(251)	**540**(301)	**550**(311)
	LNAV	**610**(371)	**610**(371)	**610**(371)	**610**(371)
VM(C)OCA (OCH AAL)	Total Area	**750**(484)	**840**(574)	**1040**(774)	**1040**(774)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

CHANGE (7/24): MAG VAR. MAG TRACKS. NEW DME RCF DISTANCE REMOVED. VM(C)OCA (OCH AAL) B MINIMA REVISED.

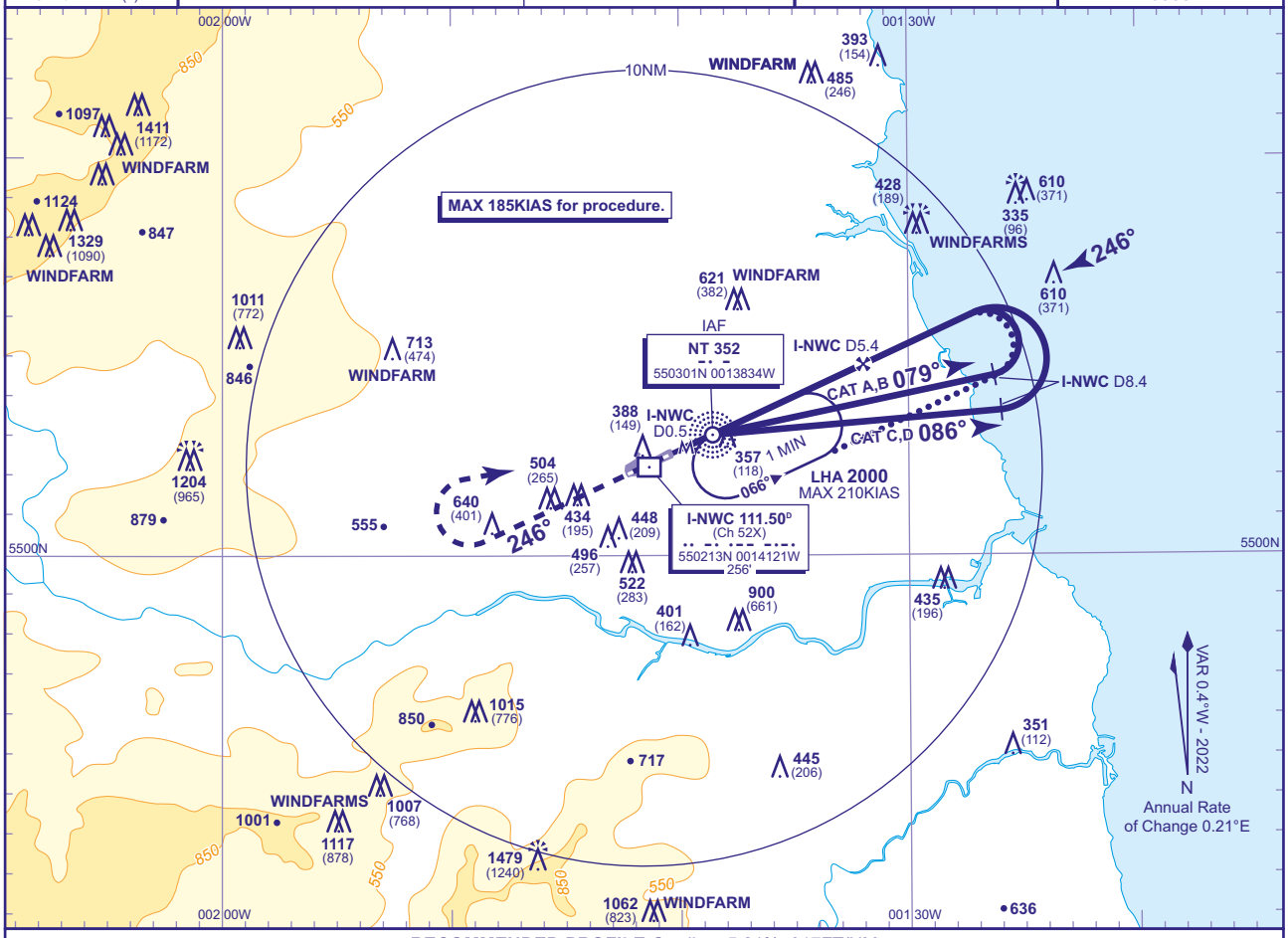
AERO INFO DATE 17 APR 24

INSTRUMENT APPROACH CHART - ICAO

NEWCASTLE NDB(L)/DME RWY 25
(ACFT CAT A,B,C,D)

MSA 25NM NDB(L) NT

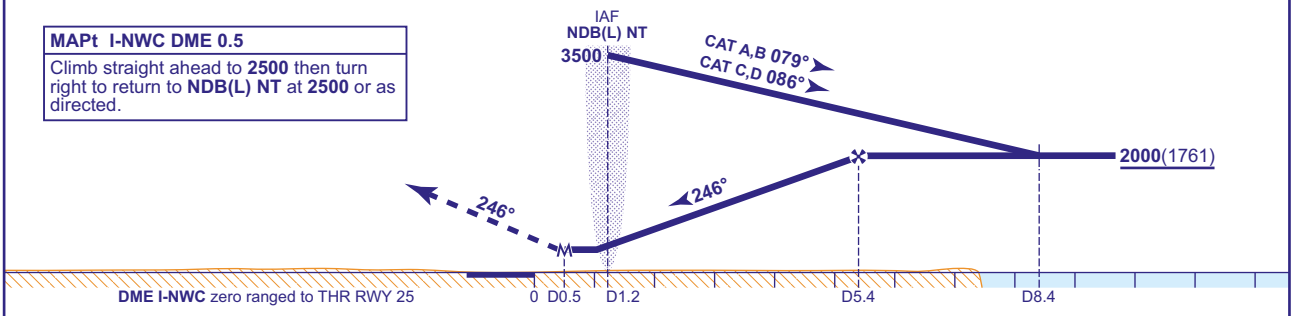
APP	124.380	NEWCASTLE APPROACH	AD ELEVATION	**266**	TRANSITION ALTITUDE **6000**
TWR	119.705	NEWCASTLE TOWER	THR ELEVATION	**239**	
	121.730	NEWCASTLE GROUND	OBSTACLE ELEVATION **1479 AMSL** (1240) (ABOVE THR)		
RAD	124.380, 125.830	NEWCASTLE RADAR			
ATIS	118.380	NEWCASTLE ATIS	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.21%, 317FT/NM

DME I-NWC	5	4	3	2
ALT(HGT)	**1870**(1631)	**1560**(1321)	**1240**(1001)	**920**(681)

MAPt I-NWC DME 0.5
Climb straight ahead to **2500** then turn right to return to **NDB(L) NT** at **2500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**620**(381)	**620**(381)	**620**(381)	**620**(381)
VM(C)OCA (OCH AAL)	**Total Area**	**750**(484)	**840**(574)	**1070**(804)	**1070**(804)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	840	740	630	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Extend outbound leg of holding pattern descending to **2000**(1761). At I-NWC D8.4 turn left to intercept the FAT then continue as for main procedure.

NOTE 1 Lowest altitude to commence procedure from hold after missed approach is **2500**.
2 Aircraft will normally be required to hold not lower than **3500**.

CHANGE (11/24): SDF TEXT REMOVED FROM NDB NT.

AERO INFO DATE 09 AUG 24 AD 2-EGNT-8-8

Instrument Approach Procedure Coding Tables

Newcastle RNP RWY 07 - Instrument Approach Procedure via KUSEG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07L	001	IF	KUSEG	N	-	-	4000	200	550242.68N 0020024.82W	IAF / 14.2NM
R07L	002	TF	NT07I	N	156° (155.1°)	LEFT	2600	-	545810.42N 0015645.55W	IF / 9.2NM
R07L	003	TF	NT07F	N	066° (065.0°)	-	2000	-	545949.01N 0015037.35W	FAF / 5.3NM
R07L	004	TF	RW07	Y	066° (065.1°)	-	-	-	550202.35N 0014216.68W	MAPt
R07L	005	TF	NTM01	Y	066° (065.2°)	-	-	210	550407.75N 0013423.02W	-
R07L	006	CA	-	-	066° (065.2°)	-	2000	210	-	-

Newcastle RNP RWY 07 - Instrument Approach Procedure via ERUXI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R07R	001	IF	ERUXI	N	-	-	5500	200	545019.48N 0015756.18W	IAF / 17.2NM
R07R	002	TF	NTW04	N	360° (359.2°)	RIGHT	3500	200	545600.82N 0015804.58W	11.5NM
R07R	003	TF	NT07I	N	020° (019.3°)	RIGHT	2600	-	545810.42N 0015645.55W	IF / 9.2NM
R07R	004	TF	NT07F	N	066° (065.0°)	-	2000	-	545949.01N 0015037.35W	FAF / 5.3NM
R07R	005	TF	RW07	Y	066° (065.1°)	-	-	-	550202.35N 0014216.68W	MAPt
R07R	006	TF	NTM01	Y	066° (065.2°)	-	-	210	550407.75N 0013423.02W	-
R07R	007	CA	-	-	066° (065.2°)	-	2000	210	-	-

CHANGE (7/24): MAG VAR. MAG TRACKS.
AERO INFO DATE 11 APR 24

Instrument Approach Procedure Coding Tables

Newcastle RNP RWY 25 - Instrument Approach Procedure via ASGEB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25R	001	IF	ASGEB	N	-	-	4000	200	551057.54N 0012920.76W	IAF / 14.4NM
R25R	002	TF	SUPIG	N	156° (155.3°)	RIGHT	2600	-	550624.81N 0012542.12W	IF / 9.4NM
R25R	003	TF	NT25F	N	246° (245.4°)	-	2000	-	550444.99N 0013201.83W	FAF / 5.4NM
R25R	004	TF	RW25	Y	246° (245.3°)	-	-	-	550230.46N 0014030.76W	MAPt
R25R	005	TF	NTM02	Y	246° (245.2°)	-	-	210	550049.86N 0014649.24W	-
R25R	006	CA	-	-	246° (245.2°)	-	2500	210	-	-

Newcastle RNP RWY 25 - Instrument Approach Procedure via UPMOP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25L	001	IF	UPMOP	N	-	-	4000	200	550131.69N 0012146.79W	IAF / 14.8NM
R25L	002	TF	SUPIG	N	336° (335.3°)	LEFT	2600	-	550624.81N 0012542.12W	IF / 9.4NM
R25L	003	TF	NT25F	N	246° (245.4°)	-	2000	-	550444.99N 0013201.83W	FAF / 5.4NM
R25L	004	TF	RW25	Y	246° (245.3°)	-	-	-	550230.46N 0014030.76W	MAPt
R25L	005	TF	NTM02	Y	246° (245.2°)	-	-	210	550049.86N 0014649.24W	-
R25L	006	CA	-	-	246° (245.2°)	-	2500	210	-	

Newcastle RNP RWY 25 - Instrument Approach Procedure via SUPIG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R25C	001	IF	SUPIG		-	-	2600	-	550624.81N 0012542.12W	IAF / IF / 9.4NM
R25C	002	TF	NT25F		246° (245.4°)	-	2000	-	550444.99N 0013201.83W	FAF / 5.4NM
R25C	003	TF	RW25		246° (245.3°)	-	-	-	550230.46N 0014030.76W	MAPt
R25C	004	TF	NTM02		246° (245.2°)	-	-	210	550049.86N 0014649.24W	-
R25C	005	CA	-		246° (245.2°)	-	2500	210	-	-

CHANGE (7/24): MAG VAR. MAG TRACKS.

EGHQ — NEWQUAY

EGHQ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHQ — NEWQUAY

EGHQ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 502627N Long: 0045943W Mid point of Runway 12/30.
2	Direction and distance from city	3.5 NM NE Newquay.
3	Elevation / Reference temperature / Mean Low Temperature	390 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	173 FT
5	Magnetic Variation / Annual Change	1.05°W (2022) / 0.20°E
6	AD Administration Address Telephone Telefax Web address	CORNWALL AIRPORT LTD Newquay Cornwall Airport St Mawgan, Newquay Cornwall TR8 4RQ 01637-861301 (ATC) 01637-860551 (Executive and GA Full Handling PPR) 01637-861744 (General Aviation PPR) 01637-860940 01637-861352 (ATC) www.cornwallairportnewquay.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All telephone calls to ATC will be recorded.

EGHQ AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 0645-2130 (0545-2030); Sun 0700-2130 (0600-2030). All other times by arrangement.
2	Customs and immigration	H24. 24 hours notice required for non-scheduled movements.
3	Health and sanitation	As AD.
4	AIS Briefing Office	As AD via Handling Agent or self briefing by Internet site.
5	ATS Reporting Office (ARO)	As AD.
6	MET Briefing Office	As AD via Handling Agent or self briefing by Internet site.
7	ATS	See AD 2.18.
8	Fuelling	As AD.
9	Handling	As AD.
10	Security	As AD.
11	De-icing	As AD on request.
12	Remarks	PPR before departure for all non-scheduled movements. For non-scheduled movements between 1700-0900 (1600-0800) PPR to be obtained before 1500 (1400).

EGHQ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Limited
2	Fuel and oil types	AVTUR Jet A-1/ F35, AVGAS 100LL
3	Fuelling facilities/capacity	AVTUR Jet A-1 / F35 100,000 LTS. AVGAS 100LL 20,000 LTS.
4	De-icing facilities	Available via Airport Operations.
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	Limited. STS Aviation (UK CAA/EASA Part 145 Approved). www.stsaviationgroup.com
7	Remarks	Handling Agents: Fly NQY (GA): Tel: 01637-861744. Weston Aviation (Executive and GA full handling, including military training requests): Tel: 01637-860551 Fax: 01637-860788.

EGHQ AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity.
2	Restaurants	Cafe (landside and airside), Executive lounge (airside).
3	Transportation	Buses, Taxis and Car Hire.
4	Medical facilities	Limited First Aid.
5	Bank and Post Office	Cash Machine in Terminal
6	Tourist Office	
7	Remarks	

EGHQ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category 6 Mon-Sat 0645-2130 (0545-2030); Sun 0700-2130 (0600-2030). All other times by arrangement. RFF Category 7 accepted under remission. RFF Category 8 and 9 by prior arrangement.
2	Rescue equipment	3 x Panther 6 x 6 CA-5. Cutting equipment available.
3	Capability for removal of disabled aircraft	Limited.
4	Remarks	

EGHQ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Limited Mechanical, Chemical De-Icing.
2	Clearance priorities	Standard.
3	Remarks	

EGHQ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	ALPHA APRON Surface: Asphalt/Brick Pavers. PCR 410/F/B/W/U ECHO APRON Surface: Concrete PCR 539/R/C/W/U FOXTROT APRON Surface: Asphalt GOLF APRON Surface: Concrete and asphalt PCR 655/R/C/W/U HOTEL APRON Surface: Concrete and asphalt PCR 448/R/C/W/U
2	Taxiway width, surface and strength	Taxiway ALPHA E OF BRAVO: 23 M Surface: Asphalt PCR 290/F/B/W/U Taxiway ALPHA W OF BRAVO: 18 M Surface: Asphalt PCR 410/F/B/W/U Taxiway BRAVO: 23 M Surface: Asphalt PCR 410/F/B/W/U Taxiway CHARLIE NORTH: 23 M Surface: Asphalt PCR 79/F/C/W/U PCR Value relevant North of Taxiway ALPHA.

		Taxiway CHARLIE SOUTH: 23 M Surface: Asphalt PCR 290/F/B/W/U Taxiway DELTA: 23 M Surface: Asphalt PCR 341/F/B/W/U Taxiway ECHO: 23 M Surface: Asphalt PCR 330/F/C/X/U Taxiway GOLF: 40 M Surface: Asphalt PCR 290/F/B/W/U Taxiway HOTEL: 18 M Surface: Asphalt PCR 315/F/A/W/U
3	Altimeter checkpoint location and elevation	Alpha Apron 363 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGHQ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Aircraft classed as higher than Code C parking on ECHO Apron are to shut down on the ECHO taxilane and be towed to parking position under ground crew guidance. Aircraft parking stands 18-19 are to follow marshaller guidance. Aircraft parking Alpha Apron stands 20-24 are to follow marshaller guidance. All engine starts and aircraft manoeuvring on Alpha Apron require ground crew guidance. Light aircraft are to be allocated parking by ATC. Marshaller guidance on the General Aviation Parking Area may not be available.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 12/30: Runway designation, runway centre-line, runway threshold, fixed distance and touchdown and zone markings. Runway side stripes. Threshold turn-pad centre-line and edge markings with blue edge lights. Taxiway light(s): Green centre-line lighting. Yellow/Green lead-on/lead-off lights at runway intersection with taxiways A, B, C, E, G and H, lead-on lights switched with stopbars. Taxiways D and H fitted with catseye markers and reflective signs in addition to centre-line lights.
3	Stop bars and runway guard lights (if any)	Stop bars at A2, A3, B2, C2, D4, E2, G1 and H1. Also vehicle crossing V(North) and V(South). Runway guard lights at A1, A4, B1, C1, D4, E1, G1 and H1.
4	Other runway protection measures	
5	Remarks	WDI (LGTD) - 502623.94N 0045946.34W; 502611.95N 0045914.45W; 502641.48N 0050032.84W.

EGHQ AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHQ4386) 12/APPROACH 30/ TAKE-OFF	FENCE	502651.99N 0050058.49W	314 FT	8 FT	No	
EGHQ5502) 30/APPROACH 12/ TAKE-OFF	TREE	502606.74N 0045831.89W	426 FT	37 FT	No	
(EGHQ4278) 30/APPROACH 12/ TAKE-OFF	TREE	502606.49N 0045833.76W	417 FT	27 FT	No	
(EGHQ4843) 30/APPROACH 12/ TAKE-OFF	TREE	502605.70N 0045825.84W	430 FT	43 FT	No	
(EGHQ2907) 30/APPROACH 12/ TAKE-OFF	LLZ 30 FFM	502600.97N 0045834.82W	413 FT	23 FT	No	
(EGHQ2139) 30/APPROACH 12/ TAKE-OFF	PYLON	502318.00N 0044852.26W	926 FT	86 FT	No	
(EGHQ2138) 30/APPROACH 12/ TAKE-OFF	PYLON	502311.29N 0044839.89W	1030 FT	116 FT	No	
(EGHQ5095) 30/APPROACH 12/ TAKE-OFF	MAST	502255.54N 0044934.64W	1286 FT	304 FT	Yes Red	
(EGHQ4337) 30/APPROACH 12/ TAKE-OFF	WIND TURBINE	502236.95N 0044820.35W	1105 FT	245 FT	No	
30/APPROACH 12/TAKE-OFF	CLAY SPOIL	502221.03N 0044913.95W	1094 FT		No	
(EGHQ5098) 30/APPROACH 12/ TAKE-OFF	MAST	502210.22N 0044929.37W	1193 FT	105 FT	Yes Red	
(EGHQ4673) 30/APPROACH 12/ TAKE-OFF	WIND TURBINE	502136.36N 0044949.30W	970 FT	256 FT	No	
(EGHQ4333) 30/APPROACH 12/ TAKE-OFF	WIND TURBINE	502125.80N 0044844.00W	1083 FT	202 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHQ4358)	WIND TURBINE	502853.76N 0045148.00W	978 FT	325 FT	No	
(EGHQ5545)	MAST LC	502828.20N 0045956.35W	530 FT	218 FT	Yes Red	
(EGHQ3815)	WIND TURBINE	502804.14N 0050036.29W	402 FT	112 FT	Yes Red	
(EGHQ4327)	WIND TURBINE	502747.14N 0045723.98W	830 FT	327 FT	Yes Red	
(EGHQ4329)	WIND TURBINE	502745.98N 0045738.70W	842 FT	328 FT	Yes Red	
(EGHQ3816)	WIND TURBINE	502734.02N 0045616.69W	605 FT	111 FT	No	
(EGHQ4365)	WIND TURBINE	502659.73N 0045543.64W	480 FT	73 FT	No	
(EGHQ2319)	MAST	502647.57N 0045611.04W	464 FT	60 FT	No	
(EGHQ4204)	WIND TURBINE	502525.88N 0044902.79W	837 FT	322 FT	Yes Red	
(EGHQ5085)	MAST	502405.65N 0045908.88W	458 FT	60 FT	Yes Red	
	CLAY SPOIL	502317.30N 0045043.70W	908 FT		No	
(EGHQ2103)	PYLON	502314.95N 0045534.70W	823 FT	160 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	CLAY SPOIL	502301.47N 0044936.47W	1045 FT		No	
(EGHQ4341)	CHIMNEY	502242.52N 0045331.58W	870 FT	391 FT	Yes Red	
(EGHQ3867)	WIND TURBINE	502058.83N 0050145.58W	789 FT	331 FT	Yes Red	

EGHQ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/internet.
6	Flight documentation Language(s) used	Charts abbreviated plain language text TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	www.metoffice.gov.uk
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	ATIS available by telephone 01637-861320

EGHQ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
12	120.51°	2744 x 45 M	RWY surface: Concrete. Grooved Asphalt. PCR 598/F/B/W/U	502649.34N 0050043.25W 173.6 FT	THR 306.5 FT TDZ 333.2 FT	
30	300.54°	2744 x 45 M	RWY surface: Concrete. Grooved Asphalt. PCR 598/F/B/W/U	502609.17N 0045856.56W 173.4 FT	THR 385.3 FT TDZ 385.3 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
	300 x 150 M	2804 x 280 M				RWY 12 There are 22 M asphalt shoulders both sides of the marked runway edges. At the thresholds these shoulders form part of the marked turn pads.
	300 x 150 M	2804 x 280 M				RWY 30 Landing threshold displaced by 300 M. There are 22 M asphalt shoulders both sides of the marked runway edges. At the thresholds these shoulders form part of the marked turn pads.

EGHQ AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
12	2637 M	2937 M	2637 M	2637 M	TORA and LDA end 107 M before physical end of pavement for RESA provision.
30	2744 M	3044 M	2744 M	2444 M	
12	1964 M	2264 M	1964 M		Take-off from Intersection with Taxiway Hotel.
12	1940 M	2240 M	1940 M		Take-off from Intersection with Taxiway Bravo 1.
12	1823 M	2123 M	1823 M		Take-off from Intersection with Taxiway Golf.
12	1272 M	1572 M	1272 M		Take-off from Intersection with Taxiway Charlie 1.
12	1247 M	1547 M	1247 M		Take-off from Intersection with Taxiway Echo 1.
30	1441 M	1741 M	1441 M		Take-off from Intersection with Taxiway Echo 1.
30	1417 M	1717 M	1417 M		Take-off from Intersection with Taxiway Charlie 1.
30	873 M	1173 M	873 M		Take-off from Intersection with Taxiway Golf.
30	726 M	1026 M	726 M		Take-off from Intersection with Taxiway Bravo 1.
30	693 M	993 M	693 M		Take-off from Intersection with Taxiway Hotel.

EGHQ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
12	Centre-line with five crossbars. 817 M Light intensity high	Green Light intensity high Uni-directional with HI green wingbars	PAPI Left/3° 58 FT 313 M		Full length 15 M spacing Colour coded Light intensity high	Elev HI bi-directional colour coded with LI omni-directional component 60 M spacing	Elev uni-directional Light intensity high		
30	Coded centre-line with five crossbars. Supplementary lighting inner 275 M. 847 M Light intensity high	Green Light intensity high Uni-directional with HI green elev wingbars	PAPI Left/3° 51 FT 384 M	900 M	Full length 15 M spacing Colour coded Light intensity high	Elev HI bi-directional colour coded with LI omni-directional component 60 M spacing	Elev uni-directional Light intensity high		

EGHQ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: LGTD - Runway 12: 502646.48N 0050023.69W; Runway 12/30 (midpoint): 502634.99N 0045951.92W; Runway 30: 502611.76N 0045917.72W.
3	TWY edge and centre line lighting	CL: Green, and green and amber centre-line lighting, 15 M spacing, on Taxiways A, B, C and E. 30 M spacing on Taxiways D, G and H. EDGE: Blue edge lighting on apron.

4	Secondary power supply/switch-over time	Yes/1 second.
5	Remarks	Floodlighting Alpha, Echo and Hotel Aprons. GA Apron floodlighting by prior arrangement.

EGHQ AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGHQ AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
NEWQUAY ATZ A circle, 2.5 NM radius, centred at 502627N 0045943W on longest notified runway (12/30)	Upper limit: 2000 FT AGL Lower limit: SFC	G	NEWQUAY APPROACH English	3000 FT		

EGHQ AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	NEWQUAY APPROACH	133.405 DOC 60 NM/ 20,000 FT.			Mon-Sat 0645-2130 (0545-2030); Sun 0700-2130 (0600-2030). All other times by arrangement.	ATZ hours coincident with Approach hours.
TWR	NEWQUAY GROUND	121.955			Only when directed by ATC or by prior arrangement.	
	NEWQUAY TOWER	134.380 DOC 40 NM/ 10,000 FT.			Mon-Sat 0645-2130 (0545-2030); Sun 0700-2130 (0600-2030). All other times by arrangement.	
RADAR	NEWQUAY RADAR	127.930 DOC 60 NM/ 20,000 FT.			Only when directed by ATC or by prior arrangement.	
ATIS	NEWQUAY INFORMATION	127.405 DOC 60 NM/ 24,500 FT.			As directed by ATC and by arrangement.	
OTHER	NEWQUAY EMERGENCY	121.500 Emergency frequency.			O/R Not continuously monitored.	
OTHER	NEWQUAY FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGHQ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.19°W (2027)	INEW	110.500 MHz	HO	502601.05N 0045835.04W		(RWY 12) ILS not to be used without clearance from Newquay ATC.
ILS/GP	INEW	329.600 MHz	HO	502648.14N 0050028.11W		3° ILS Ref Datum Hgt 58 FT.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC III 0.21°W (2027)	INWQ	110.500 MHz	HO	502658.38N 0050107.29W		(RWY 30) ILS not to be used without clearance from Newquay ATC.
ILS/GP	INWQ	329.600 MHz	HO	502610.55N 0045914.18W		3° ILS Ref Datum Hgt 51 FT.
NDB (L) 0.20°W (2027)	NQY	347.000 kHz	HO	502633.16N 0045948.03W		Range 50 NM.
ILS/DME	INEW	42X 110.500 MHz	HO	502632.30N 0045947.01W	365 FT	(RWY 12) On AD. Frequency paired with ILS I-NEW and I-NWQ. Zero range indicated at THR of Runway 12 and 30. DOC 25 NM/10,000 FT. DME error of up to 0.5 NM may occur in the sector 065-075M at or below 3000 FT to range 15 NM.
ILS/DME	INWQ	42X 110.500 MHz	HO	502632.30N 0045947.01W	365 FT	(RWY 30) On AD. Frequency paired with ILS I-NEW and I-NWQ. Zero range indicated at THR of Runway 12 and 30. DOC 25 NM/10,000 FT. DME error of up to 0.5 NM may occur in the sector 065-075M at or below 3000 FT to range 15 NM. On final approach RWY 30, DME not usable below 3000 FT outside 19 NM.

EGHQ AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All persons on the manoeuvring and apron areas at Newquay Airport must wear high visibility clothing at all times. Passengers not wearing high visibility clothing must be escorted by personnel wearing the required clothing.

2 GROUND MOVEMENT

a) General Aviation light aircraft 3500 KG MTOW or less, not requiring executive handling will self position on the General Aviation parking area southeast of the control tower. Daylight operations only unless by special instruction.
b) All aircraft parking on Stands 18-24 and Echo Apron are to follow ground crew guidance.
c) All engine starts and aircraft manoeuvring on Alpha Apron require ground crew guidance.
d) Due to slopes on Echo Apron aircraft Code D and above must shut down on the apron taxi track and be towed to a parking position. Other aircraft will be directed to a parking position by ground crew guidance.
e) All aircraft parked on Echo must be chocked before the crew leave the aircraft.
f) Unless otherwise instructed by ATC: Pilots entering the Golf Apron are to follow the left hand fork. Pilots leaving the Golf Apron are to route via G1.

3 CAT II/III OPERATIONS

a) Runway 30 is suitable for Category II/IIIb operations by operators whose minima have been accepted by the Civil Aviation Authority.
b) During Category II/IIIb operations, special ATC procedures (Low Visibility Procedures (LVP)) will be applied. Pilots will be informed when these procedures are in operation by RTF and/or ATIS automatic broadcast.
c) Category II/III Holding Points are A2, B2, C2, A3 and E2 only. Red stopbars and amber/green coded centre-line lights are switched on for runway protection and guidance.
d) Special procedures will be applied to aircraft taxiing via D4, G1 and H1.

4 WARNINGS

a) Light aircraft should be aware of the elevated runway edge lights and PAPI for Runway 12/30.
b) Pilots are advised that bird concentrations may be present in agricultural areas on approaches to runways. Deterrent measures within the airport boundary are carried out by a Bird Control Unit and pilots may be requested by ATC to delay departure or arrival if bird concentrations within the BCU's area of control prove difficult to disperse.
c) Pilots are warned of the possibility of terrain induced turbulence and wind shear effects when landing on Runway 12 or 30.

d) From its junction with Taxiway Charlie to 650 M short of holding point Alpha 3, Taxiway Alpha exceeds the required transverse and longitudinal slopes. Advisory warning signs are positioned at the beginning and end of the up and down slope. Pilots are to exercise caution in this area especially in conditions of surface contamination or when following other aircraft.
e) Aircraft on instrument approach to Runway 30 or climb out from Runway 12 may experience a smell of burning due to a waste incinerator to the south of the FAT.
f) Overall runway longitudinal slope 1.17%. Maximum variation 1.3% located 1200 M from start of Rwy 30 TORA.
g) Runway 30 sight distance 841 M from runway end or 541 M from 30 threshold.
h) Taxiway Delta from Echo to Runway 30 threshold not suitable for use by aircraft.
i) Due to 24 hour SAR helicopter operations ILS I-NWQ and ILS I-NEW are not to be used without positive clearance from Newquay ATC.
j) Instrument approaches to Runway 12 require approximately 20 NM flight over water. Pilots of single engine aircraft are advised to carry appropriate safety equipment.

5 HELICOPTER OPERATIONS

a) Light helicopters may operate direct to their indicated landing position. The route to the landing position MUST avoid overflying the Terminal, terminal car parks, Carnanton House and RAF St Mawgan domestic site.
b) Helicopters are not to cross the runway or enter the runway strip (150 M either side of runway centre-line), without positive ATC clearance.
c) Heavy helicopters (SK61, Puma/Tiger etc) will be integrated into the fixed wing circuit and approach to the runway. After landing heavy helicopters may request ground or air taxi subject to landing gear fitted via the taxiways to their parking position.
d) Marked helicopter landing spots are for use by authorised operators only, unless specifically directed by ATC.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) Training by jet aircraft or aircraft of more than 17,000 KG MTOW not accepted on UK Public Holidays.
b) Military training approach requests to be directed to Weston Aviation, Tel: 01637-860551. For other military operation requests contact Newquay Operations, Tel: 01637-861055.

EGHQ AD 2.21 NOISE ABATEMENT PROCEDURES

a) **Departures**

i. Runway 30: Aircraft less than 5700 kg MTOW: Climb straight ahead until above 1000 ft aal before turning on track. Avoid overflying Newquay Town or any built up area as much as possible. Instructions for an earlier turn may be given by ATC if traffic or weather conditions dictate.

Aircraft 5700 kg or more: Climb straight ahead until above 2000 ft agl or across the coast before turning on track.

ii. Runway 12: Aircraft less than 5700 kg MTOW: Climb straight ahead until above 1000 ft aal before turning on track. Avoid overflying Newquay Town or any built up area as much as possible. Instructions for an earlier turn may be given by ATC if traffic or weather conditions dictate.

Aircraft 5700 kg or more: Climb straight ahead until above 2000 ft aal.

b) **Arrivals**

i. Jet aircraft must not join the final approach track to either runway at a height of less than 1500 ft agl, except that jet aircraft carrying out visual circuit training may descend from 1500 ft agl on base leg and join the final approach track not less than 1000 ft aal.
ii. Propeller driven aircraft of more than 5700 kg MTWA must not join the final approach track to any runway at a height of less than 1000 ft aal.
iii. Unless otherwise instructed by ATC, aircraft using the ILS in IMC or VMC shall not descend below the height specified above before intercepting the glide path nor thereafter fly below it. Aircraft approaching without assistance from ILS or radar shall follow a descent path which will not result in it being at any time lower than the approach path which would be followed by an aircraft using the ILS glidepath.

EGHQ AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

2 PROCEDURES FOR INBOUND AIRCRAFT

a) Recommended routes from the Airways System. Aircraft above FL 100 are recommended to contact Western Radar.

Approach from	Via	Route
Northeast	N92	EXMOR - NQY
East	L620	DAWLY - NQY
Southeast	N864	BHD - NQY
West		LND - NQY
Southwest		DCT - NQY

b) Inbound aircraft from other than Airways System

i. Aircraft inbound to Newquay from the London FIR may route direct towards the aerodrome. To avoid any commercial traffic it is recommended that an initial call be made 10 minutes before ETA, or at least 10 NM from the aerodrome
ii. Traffic inbound from Bodmin, Truro and Perranporth aerodromes are to call before setting heading towards Newquay.
iii. Inbound aircraft to contact Newquay Approach on 133.405 MHz unless otherwise instructed.

3 RADIO COMMUNICATIONS FAILURE

a) In the event of complete radio communications failure in an aircraft the pilot will adopt the appropriate procedure notified at ENR 1.1 paragraph 3.4.

EGHQ AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGHQ AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHQ-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGHQ-2-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGHQ-5-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 12 - ICAO
AD 2.EGHQ-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 12 - ICAO
AD 2.EGHQ-8-2
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 12 - ICAO
AD 2.EGHQ-8-3
INSTRUMENT APPROACH CHART NDB (L)/DME RWY 12 - ICAO
AD 2.EGHQ-8-4
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 30 - ICAO
AD 2.EGHQ-8-5
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 30 - ICAO
AD 2.EGHQ-8-6
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 30 - ICAO
AD 2.EGHQ-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 30 - ICAO
AD 2.EGHQ-8-8

EGHQ AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

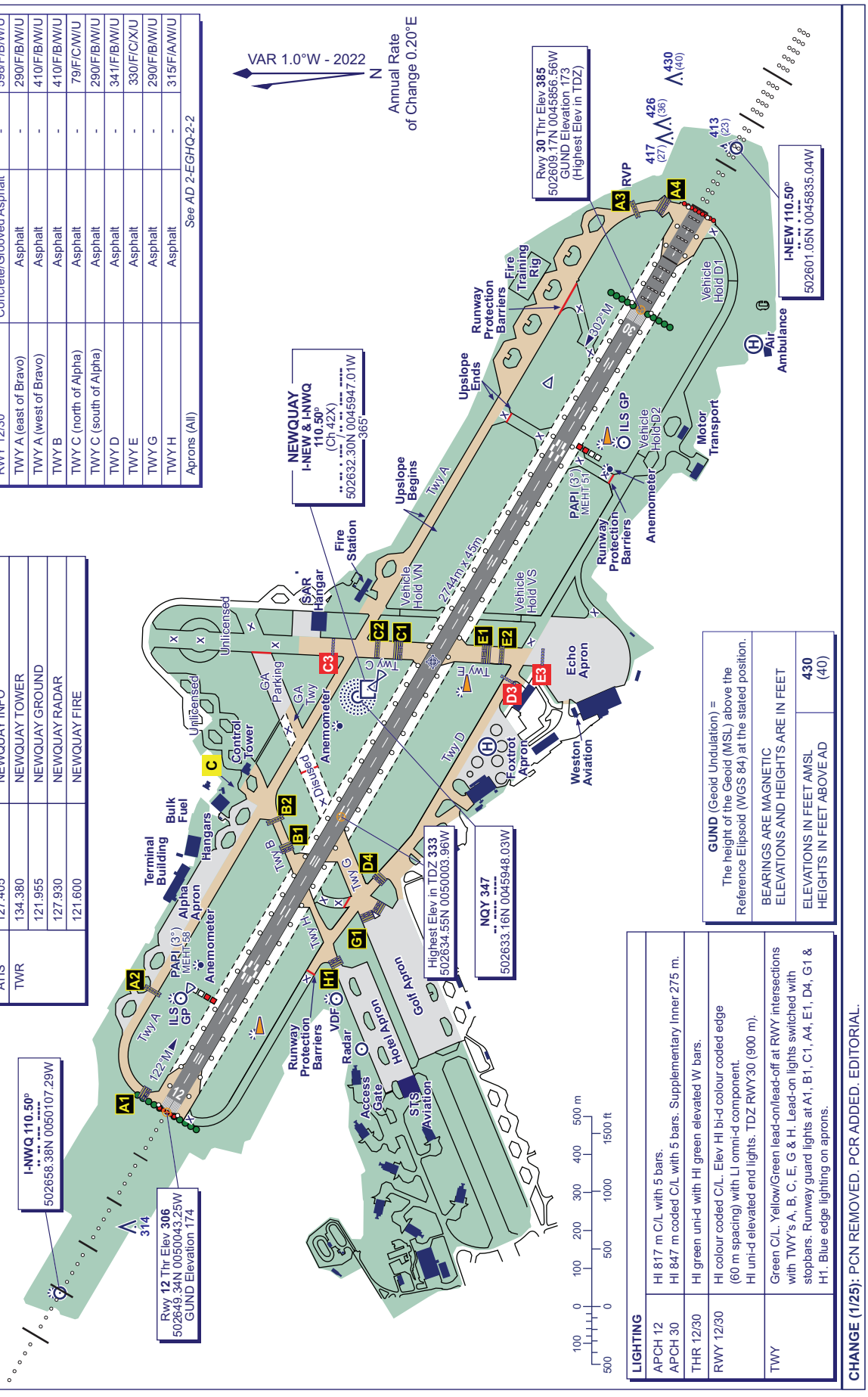
Not applicable

NEWQUAY EGHQ

AERODROME CHART - ICAO

ARP 502627N 0045943W

AD ELEV 390FT



COM		
APP	133.405	NEWQUAY APPROACH
ATIS	127.405	NEWQUAY INFO
TWR	134.380	NEWQUAY TOWER
	121.955	NEWQUAY GROUND
	127.930	NEWQUAY RADAR
	121.600	NEWQUAY FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	PCN	PCR
RWY 12/30	Concrete/Grooved Asphalt	-	598/F/B/W/U
TWY A (east of Bravo)	Asphalt	-	290/F/B/W/U
TWY A (west of Bravo)	Asphalt	-	410/F/B/W/U
TWY B	Asphalt	-	410/F/B/W/U
TWY C (north of Alpha)	Asphalt	-	79/F/C/W/U
TWY C (south of Alpha)	Asphalt	-	290/F/B/W/U
TWY D	Asphalt	-	341/F/B/W/U
TWY E	Asphalt	-	330/F/C/X/U
TWY G	Asphalt	-	290/F/B/W/U
TWY H	Asphalt	-	315/F/A/W/U
Aprons (All)	See AD 2-EGHQ-2-2		

LIGHTING	
APCH 12 APCH 30	HI 817 m C/L with 5 bars. HI 847 m coded C/L with 5 bars. Supplementary Inner 275 m.
THR 12/30	HI green uni-d with HI green elevated W bars.
RWY 12/30	HI colour coded C/L. Elev HI bi-d colour coded edge (60 m spacing) with LI omni-d component. HI uni-d elevated end lights. TDZ RWY30 (900 m).
TWY	Green C/L. Yellow/Green lead-on/lead-off at RWY intersections with TWY's A, B, C, E, G & H. Lead-on lights switched with stopbars. Runway guard lights at A1, B1, C1, A4, E1, D4, G1 & H1. Blue edge lighting on aprons.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL	430
HEIGHTS IN FEET ABOVE AD	(40)

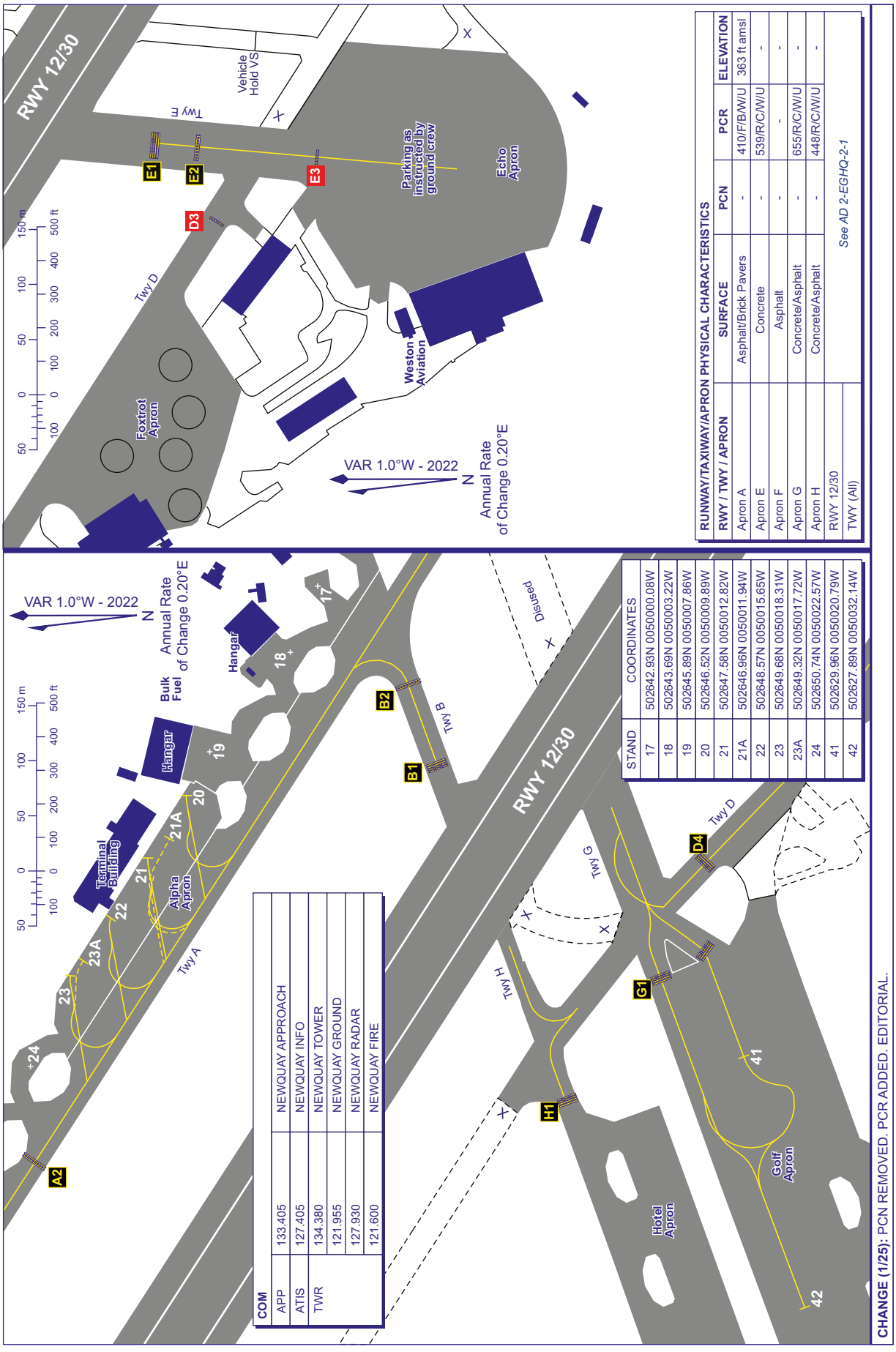
CHANGE (1/25): PCN REMOVED. PCR ADDED. EDITORIAL.

AIRCRAFT PARKING/DOCKING CHART - ICAO

NEWQUAY EGHQ

ARP 502627N 0045943W

AD ELEV 390FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS				
RWY / TWY / APRON	SURFACE	PCN	PCR	ELEVATION
Apron A	Asphalt/Brick Pavers	-	410/F/B/W/U	363 ft amsl
Apron E	Concrete	-	539/R/C/W/U	-
Apron F	Asphalt	-	-	-
Apron G	Concrete/Asphalt	-	655/R/C/W/U	-
Apron H	Concrete/Asphalt	-	448/R/C/W/U	-
RWY 12/30	*See AD 2-EGHQ-2-1*			
TWY (All)				

COM		
APP	133.405	NEWQUAY APPROACH
ATIS	127.405	NEWQUAY INFO
TWR	134.380	NEWQUAY TOWER
	121.955	NEWQUAY GROUND
	127.930	NEWQUAY RADAR
	121.600	NEWQUAY FIRE

STAND	COORDINATES
17	502642.93N 0050000.08W
18	502643.69N 0050003.22W
19	502645.89N 0050007.86W
20	502646.52N 0050009.89W
21	502647.58N 0050012.82W
21A	502646.96N 0050011.94W
22	502648.57N 0050015.65W
23	502649.68N 0050018.31W
23A	502649.32N 0050017.72W
24	502650.74N 0050022.57W
41	502629.96N 0050020.79W
42	502627.89N 0050032.14W

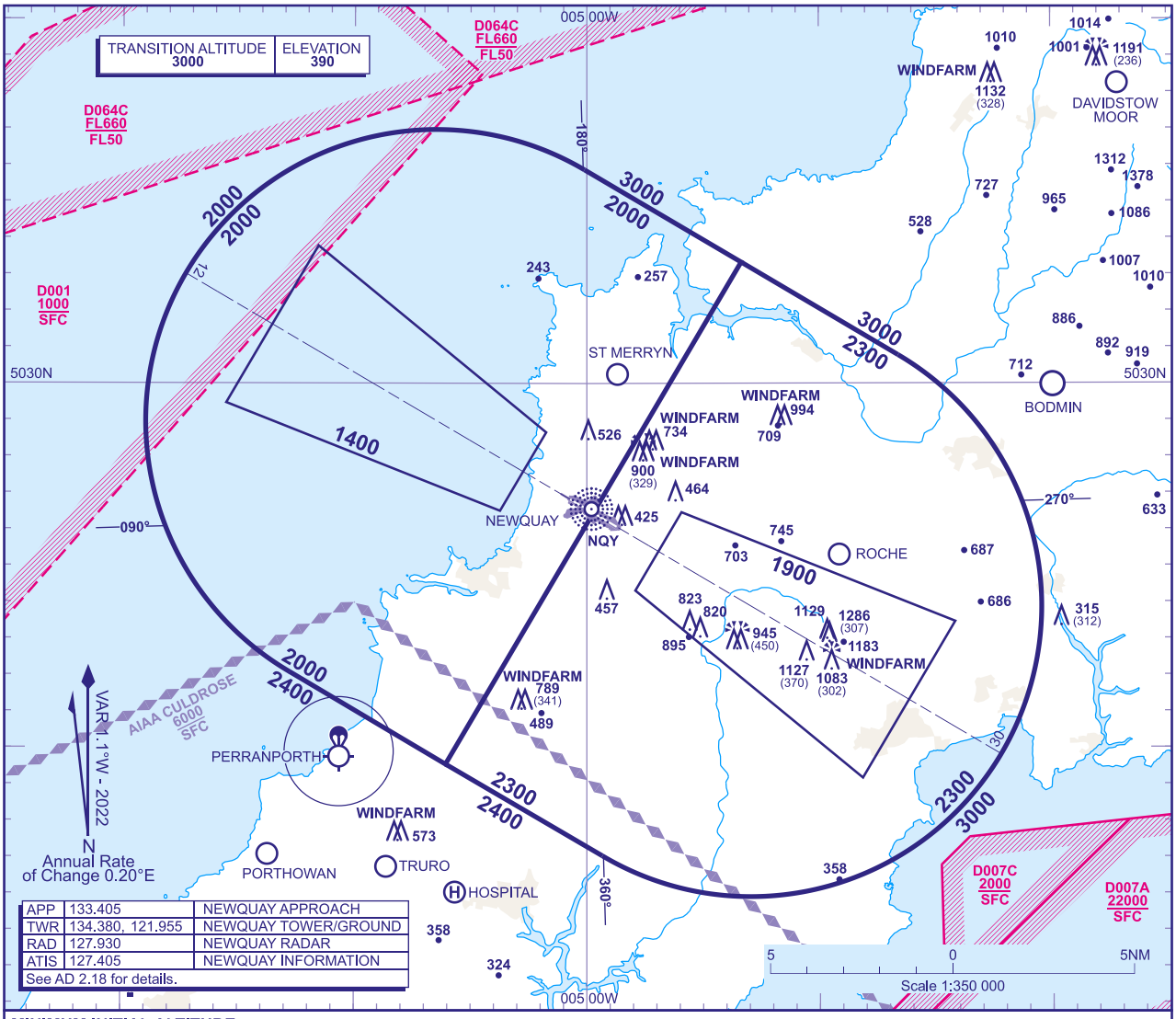
CHANGE (1/25): PCN REMOVED. PCR ADDED. EDITORIAL.

AERO INFO DATE 18 NOV 24

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1355
HEIGHTS IN FEET AGL (576)

NEWQUAY



APP	133.405	NEWQUAY APPROACH
TWR	134.380, 121.955	NEWQUAY TOWER/GROUND
RAD	127.930	NEWQUAY RADAR
ATIS	127.405	NEWQUAY INFORMATION
See AD 2.18 for details.		

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2300** in the sector defined by the lateral limits; 503320N 0045321W - 503047N 0044636W thence clockwise by an arc of a circle radius 8NM centred on 502351N 0045300W to 501702N 0045920W - 501933N 0050604W - 503320N 0045321W.

b) **2000** in the sector defined by the lateral limits; 503552N 0050006W - 503320N 0045321W - 501933N 0050604W - 502205N 0051246W thence clockwise by an arc of a circle radius 8NM centred on 502859N 0050628W - 503552N 0050006W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) NQY**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) NQY**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (4/25): BODMIN PARACHUTE SITE REMOVED. HOSPITAL HELI SITE ADDED.

AERO INFO DATE 03 FEB 25

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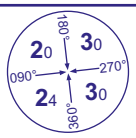
INSTRUMENT APPROACH CHART - ICAO

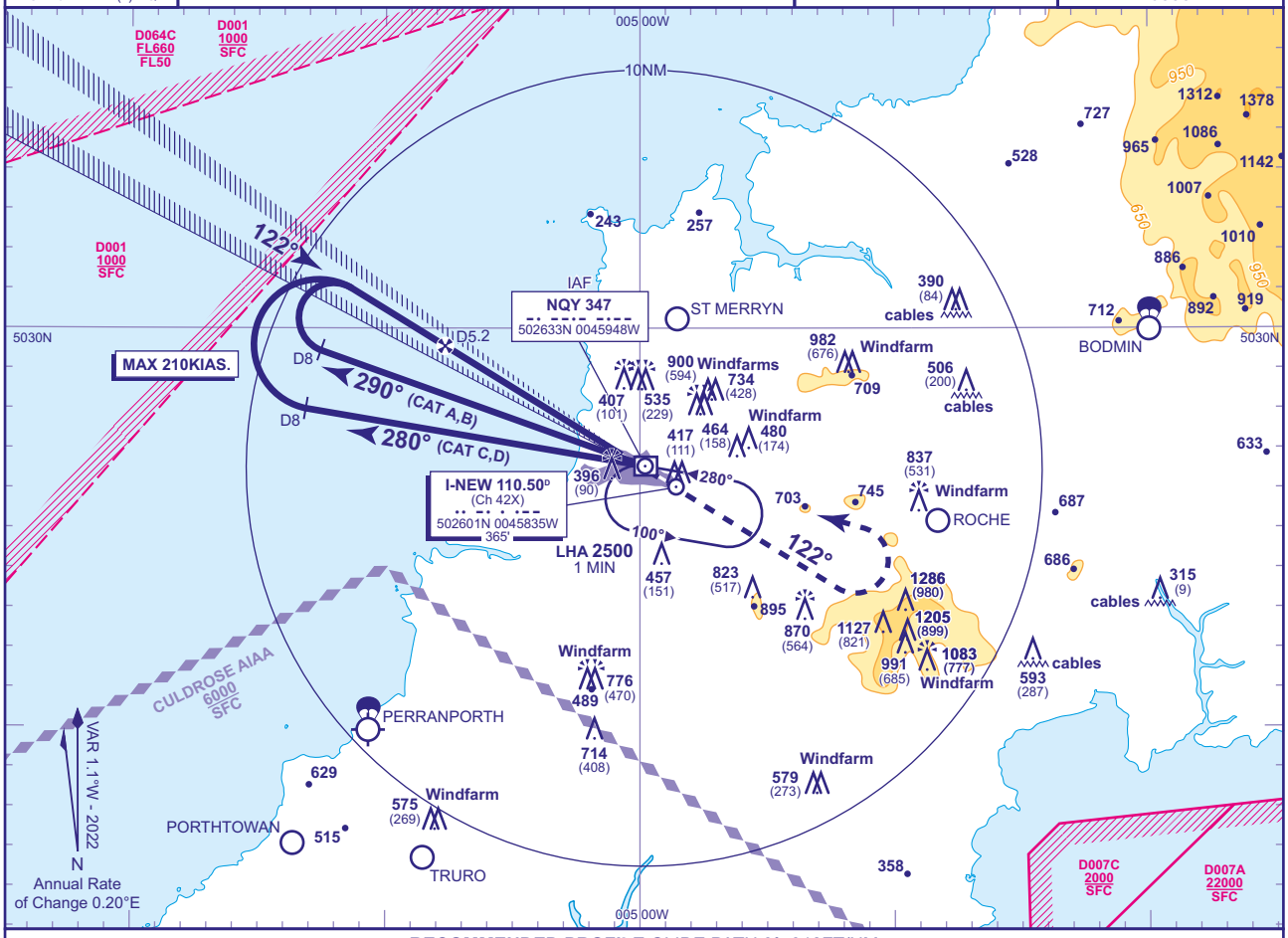
NEWQUAY
ILS/DME/NDB(L)
RWY 12
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NQY

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	390	
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	306	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION	1286 AMSL (980) (ABOVE THR)	
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		

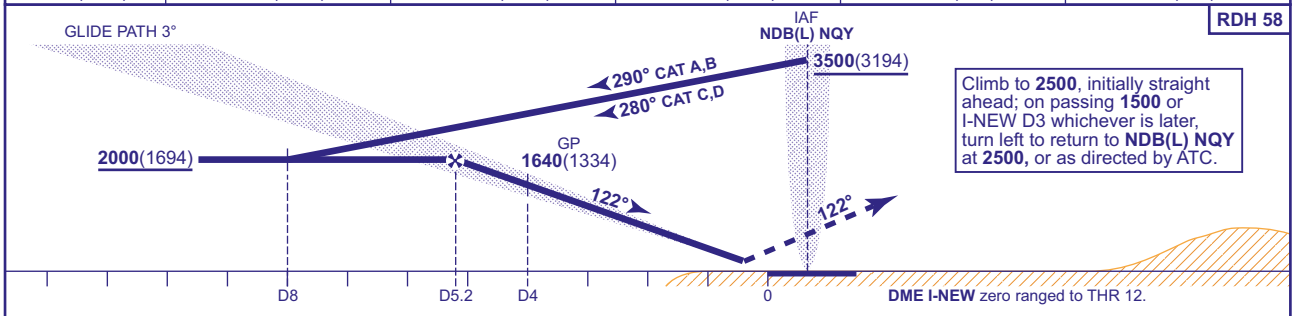
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-NEW	5	4	3	2	1
ALT(HGT)	**1960**(1654)	**1640**(1334)	**1320**(1014)	**1000**(694)	**680**(374)

RDH 58



Climb to **2500**, initially straight ahead; on passing **1500** or I-NEW D3 whichever is later, turn left to return to **NDB(L) NQY** at **2500,** or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**460**(154)	**470**(164)	**481**(175)	**493**(187)
VM(C)OCA (OCH AAL)	Total Area	**790**(400)	**1200**(810)	**1330**(940)	**1330**(940)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME
Advise ATC and continue as for normal procedure, Radar Ranges will be provided at 8NM outbound and at 4NM inbound.

NOTE ATC will normally require aircraft to hold no lower than **3500.**

CHANGE (6/24): OCA(OCH) CAT A TO D INCREASE.

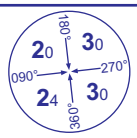
AERO INFO DATE 14 MAR 24

AD 2-EGHQ-8-1

INSTRUMENT APPROACH CHART - ICAO

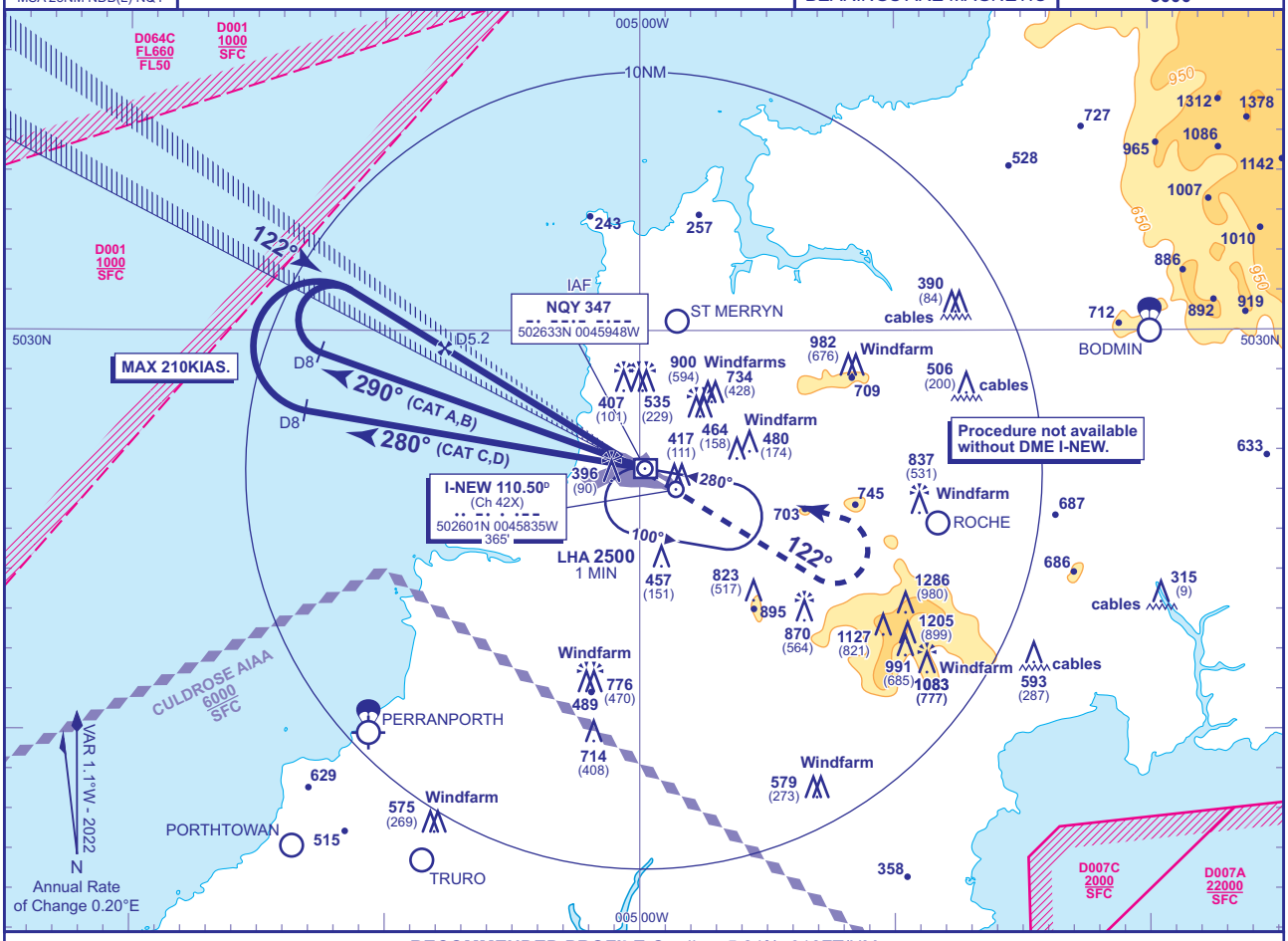
NEWQUAY LOC/DME/NDB(L) RWY 12

(ACFT CAT A,B,C,D)



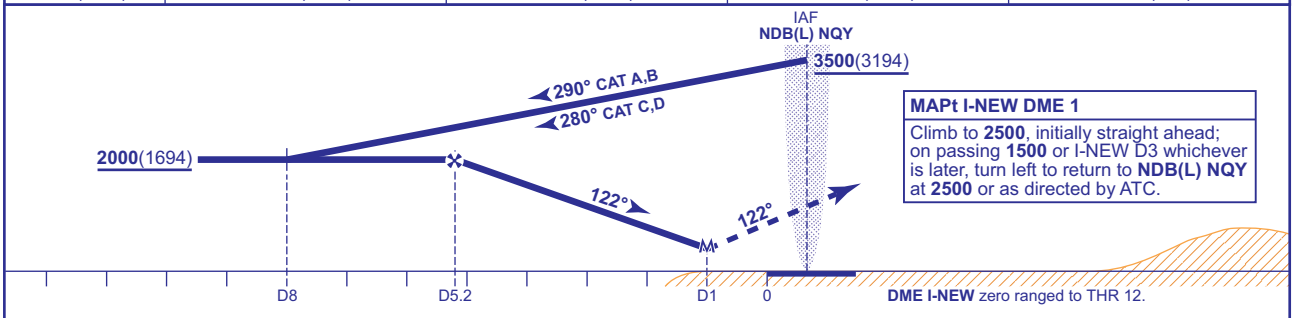
MSA 25NM NDB(L) NQY

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	**390**	TRANSITION ALTITUDE **3000**
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	**306**	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION **1286 AMSL** (980) (ABOVE THR)		
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-NEW	5	4	3	2
ALT(HGT)	**1960**(1654)	**1640**(1334)	**1320**(1014)	**1000**(694)



MAPt I-NEW DME 1

Climb to **2500**, initially straight ahead; on passing **1500** or I-NEW D3 whichever is later, turn left to return to **NDB(L) NQY** at **2500** or as directed by ATC.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**680**(374)	**680**(374)	**680**(374)	**680**(374)
VM(C)OCA (OCH AAL)	**Total Area**	**790**(400)	**1200**(810)	**1330**(950)	**1330**(950)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE ATC will normally require aircraft to hold no lower than **3500.**

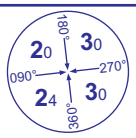
CHANGE (6/24): OCA(OCH) CAT A TO D INCREASE.

AERO INFO DATE 14 MAR 24

AD 2-EGHQ-8-2

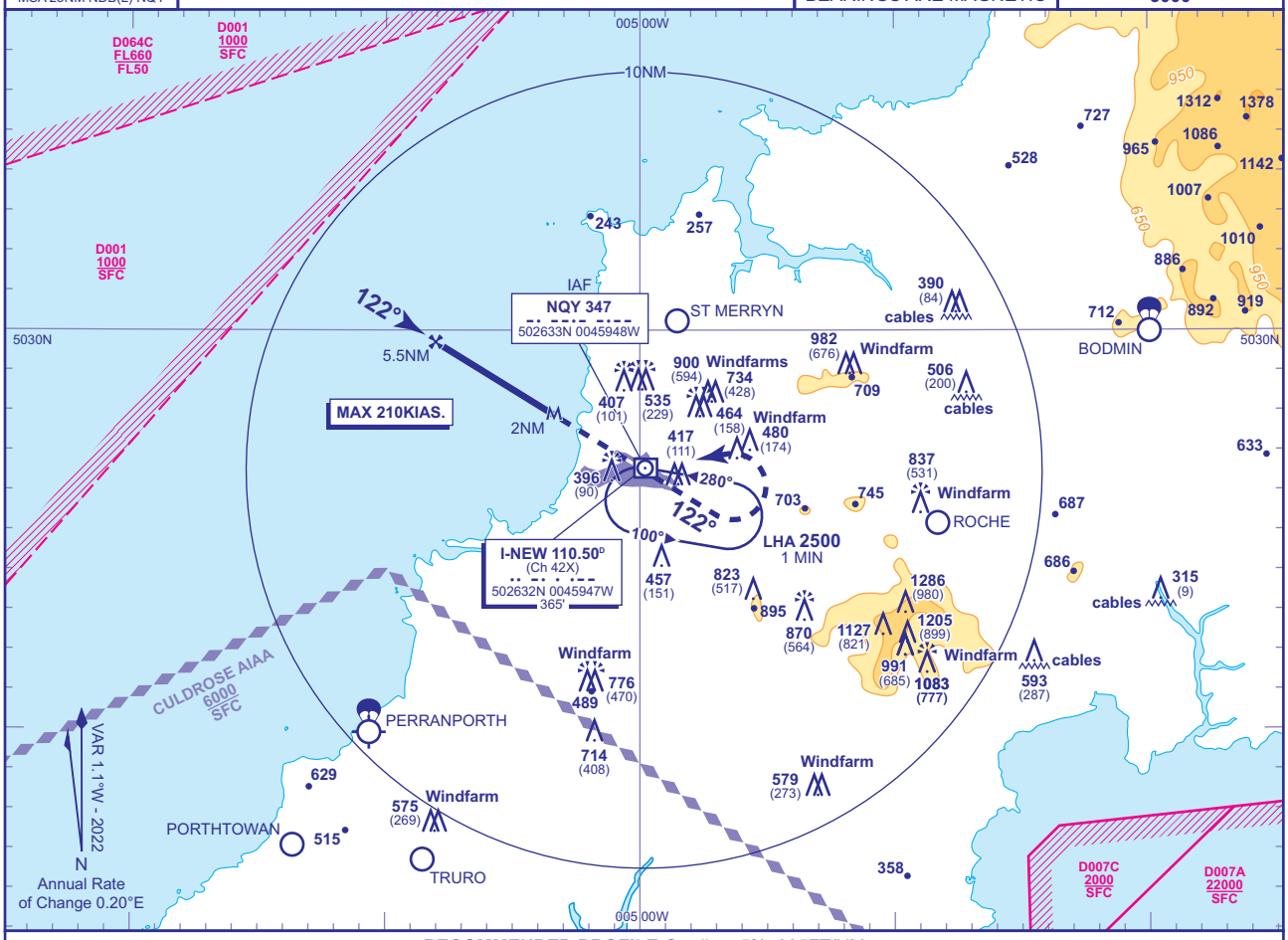
INSTRUMENT APPROACH CHART - ICAO

NEWQUAY SRA RTR 2NM RWY 12
(ACFT CAT A,B,C,D)



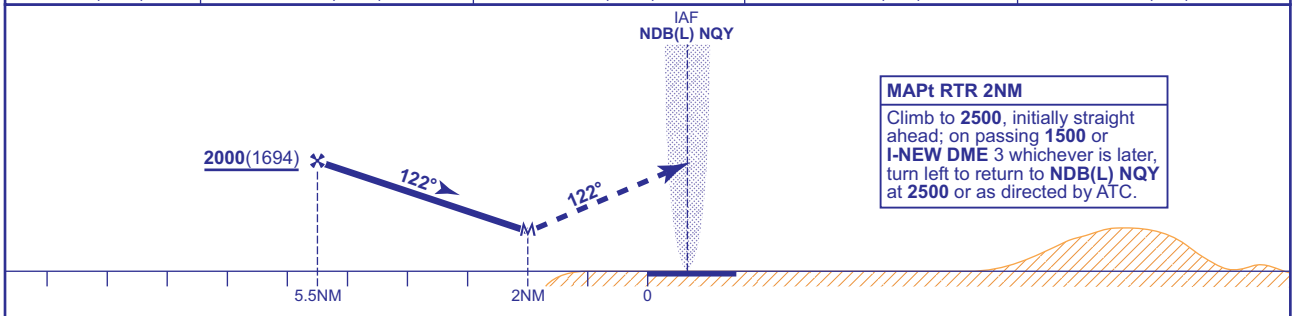
MSA 25NM NDB(L) NQY

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	390	TRANSITION ALTITUDE 3000
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	306	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION 1286 AMSL (980) (ABOVE THR)		
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5%, 305FT/NM

NM (Radar Ranges)	5	4	3	2
ALT(HGT)	**1880**(1574)	**1580**(1274)	**1270**(964)	**970**(664)



MAPt RTR 2NM

Climb to **2500**, initially straight ahead; on passing **1500** or **I-NEW DME** 3 whichever is later, turn left to return to **NDB(L) NQY** at **2500** or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**960**(654)	**960**(654)	**960**(654)	**960**(654)
VM(C)OCA (OCH AAL)	Total Area	**960**(570)	**1200**(810)	**1330**(940)	**1330**(940)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	810	710	610	510	410

NOTE 1 ATC will normally require aircraft to hold no lower than **3500.**
2 Radar Ranges are to the threshold of RWY 12.

CHANGE (6/24): VM(C)OCA(OCH AAL) CAT A INCREASE.

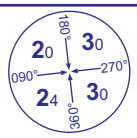
AERO INFO DATE 14 MAR 24

AD 2-EGHQ-8-3

INSTRUMENT APPROACH CHART - ICAO

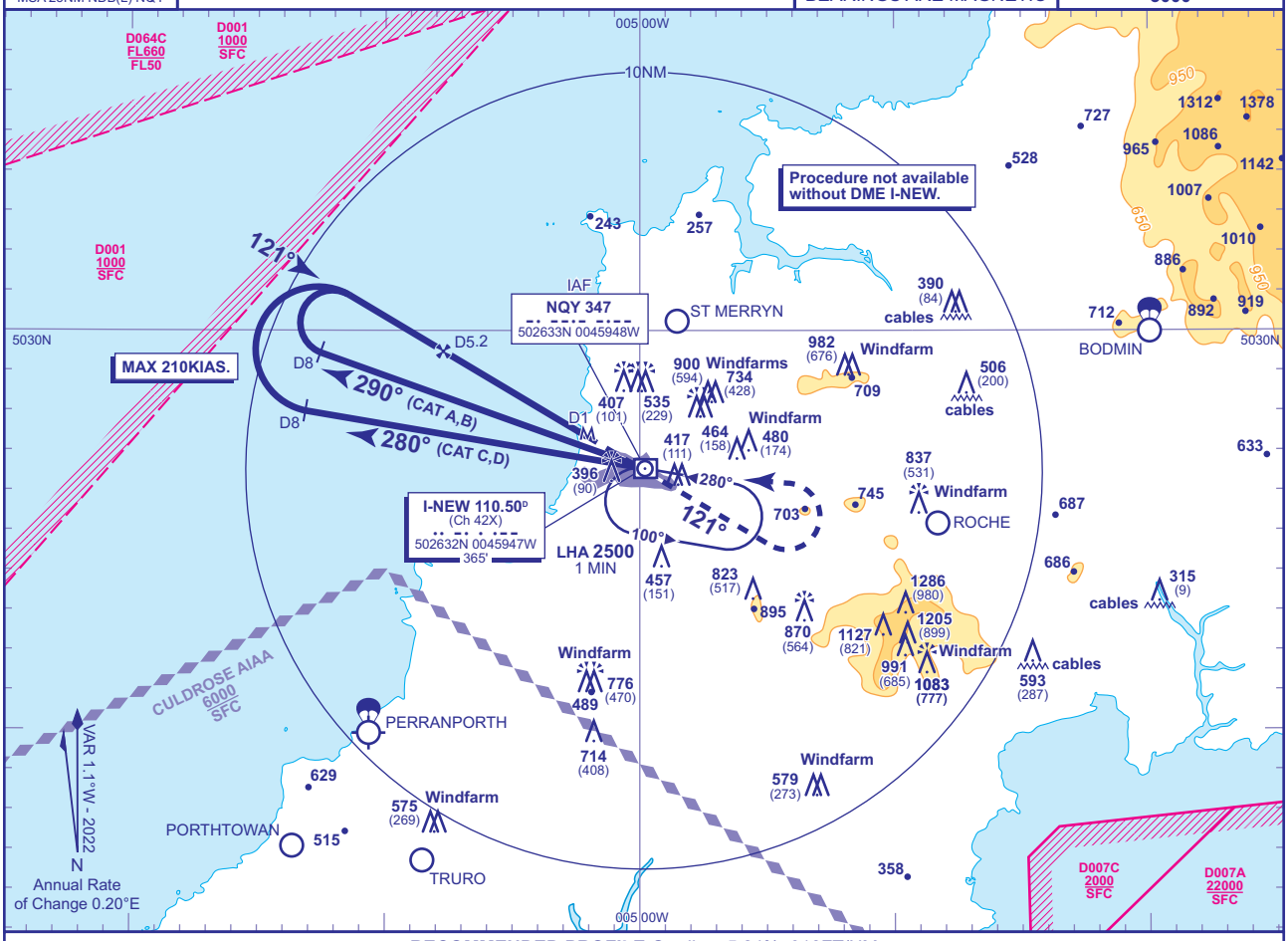
NEWQUAY NDB(L)/DME RWY 12

(ACFT CAT A,B,C,D)



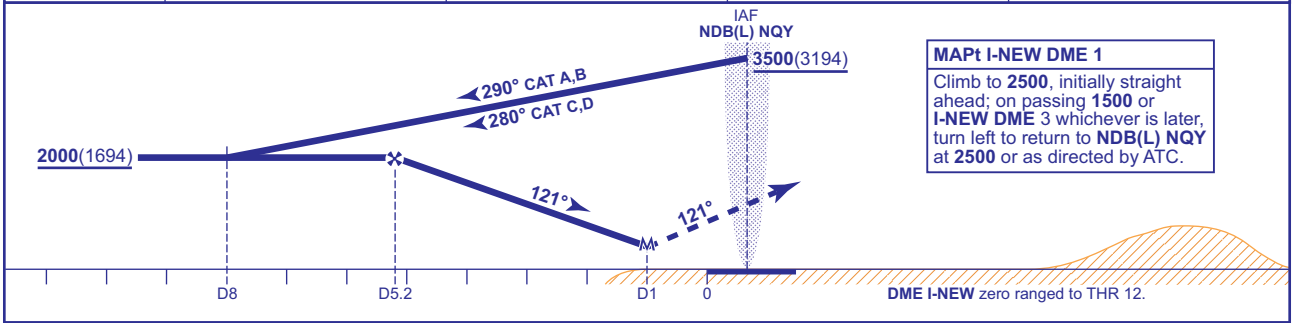
MSA 25NM NDB(L) NQY

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	**390**	TRANSITION ALTITUDE **3000**
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	**306**	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION **1286 AMSL** (980) (ABOVE THR)		
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-NEW	5	4	3	2
ALT(HGT)	**1960**(1654)	**1640**(1334)	**1320**(1014)	**1000**(694)



MAPt I-NEW DME 1

Climb to **2500**, initially straight ahead; on passing **1500** or **I-NEW DME** 3 whichever is later, turn left to return to **NDB(L) NQY** at **2500** or as directed by ATC.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**890**(584)	**890**(584)	**890**(584)	**890**(584)
VM(C)OCA (OCH AAL)	**Total Area**	**890**(500)	**1200**(810)	**1330**(950)	**1330**(950)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE ATC will normally require aircraft to hold no lower than **3500.**

CHANGE (9/23): D001 ACTIVATED BY NOTAM.

AERO INFO DATE 15 JUN 23

INSTRUMENT APPROACH CHART - ICAO

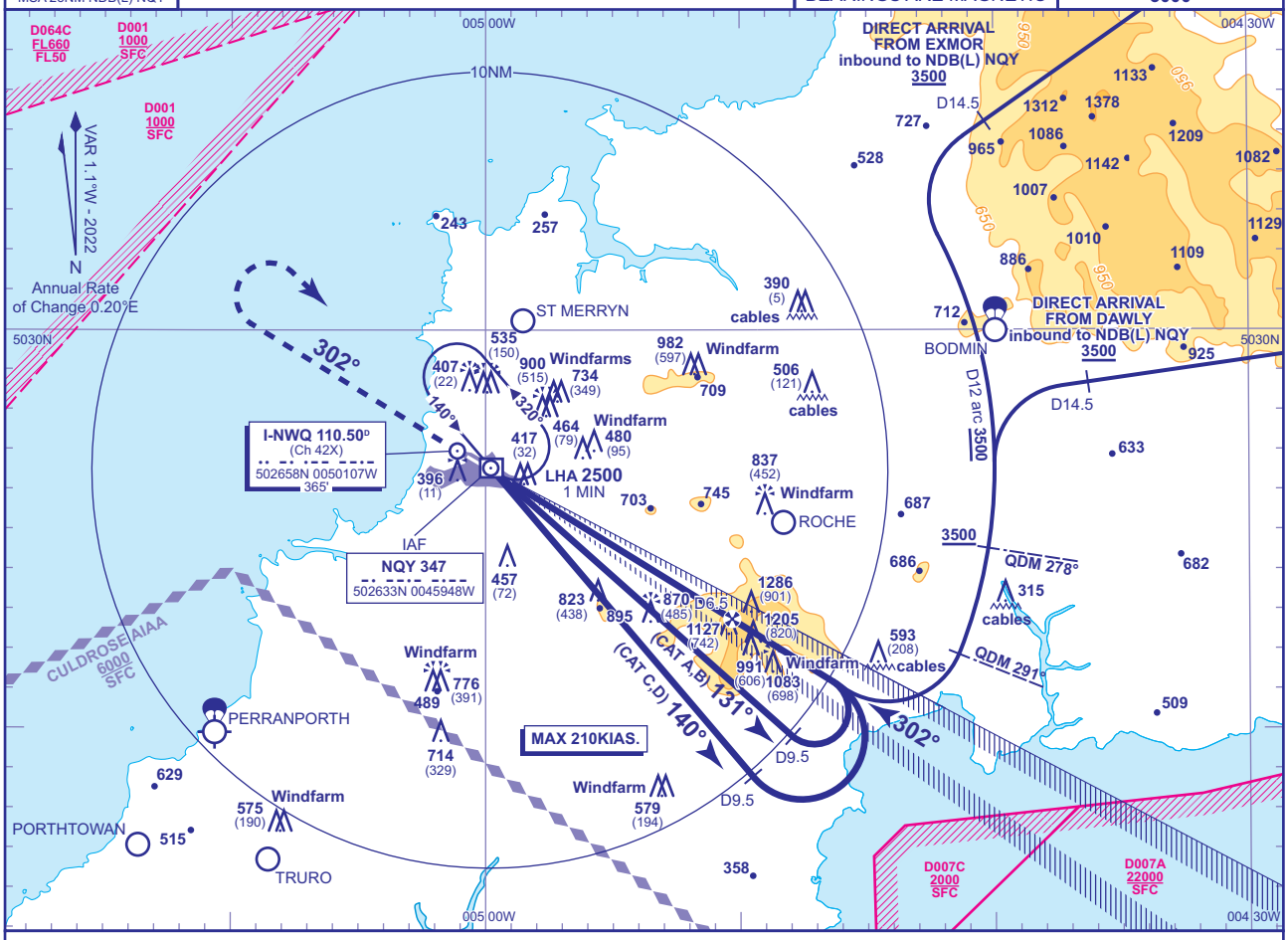
NEWQUAY
ILS/DME/NDB(L)
RWY 30
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NQY

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	390	
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	385	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION	1286 AMSL (901) (ABOVE THR)	
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**

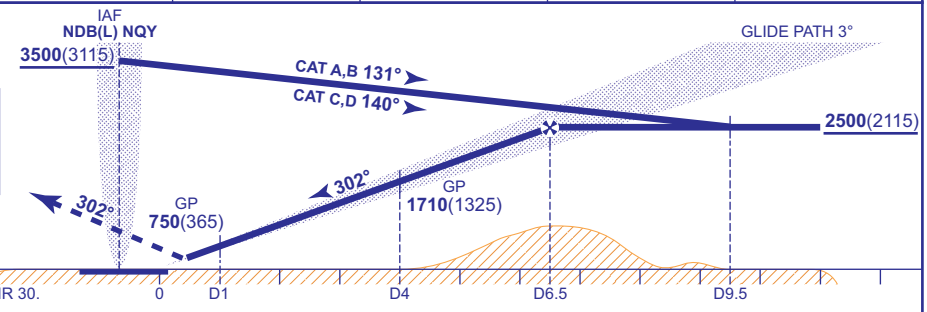


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-NWQ	6	5	4	3	2	1
ALT(HGT)	**2350**(1965)	**2030**(1645)	**1710**(1325)	**1390**(1005)	**1070**(685)	**750**(365)

RDH 51

Climb to **2500**, initially straight ahead; on passing **1500** or **I-NWQ DME** 3 whichever is later, turn right to return to **NDB(L) NQY** at **2500** or as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**540**(155)	**547**(162)	**556**(171)	**566**(181)
	CAT II	**447**(62)	**456**(71)	**469**(84)	**483**(98)
VM(C)OCA (OCH AAL)	Total Area	**790**(400)	**1200**(810)	**1330**(940)	**1330**(940)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME
Advise ATC and continue as for normal procedure. Radar Ranges will be provided at 8NM outbound and at 4NM inbound.

NOTE ATC will normally require aircraft to hold no lower than **3500.**

CHANGE (6/24): OCA(OCH) CAT II CAT C AND D INCREASE.

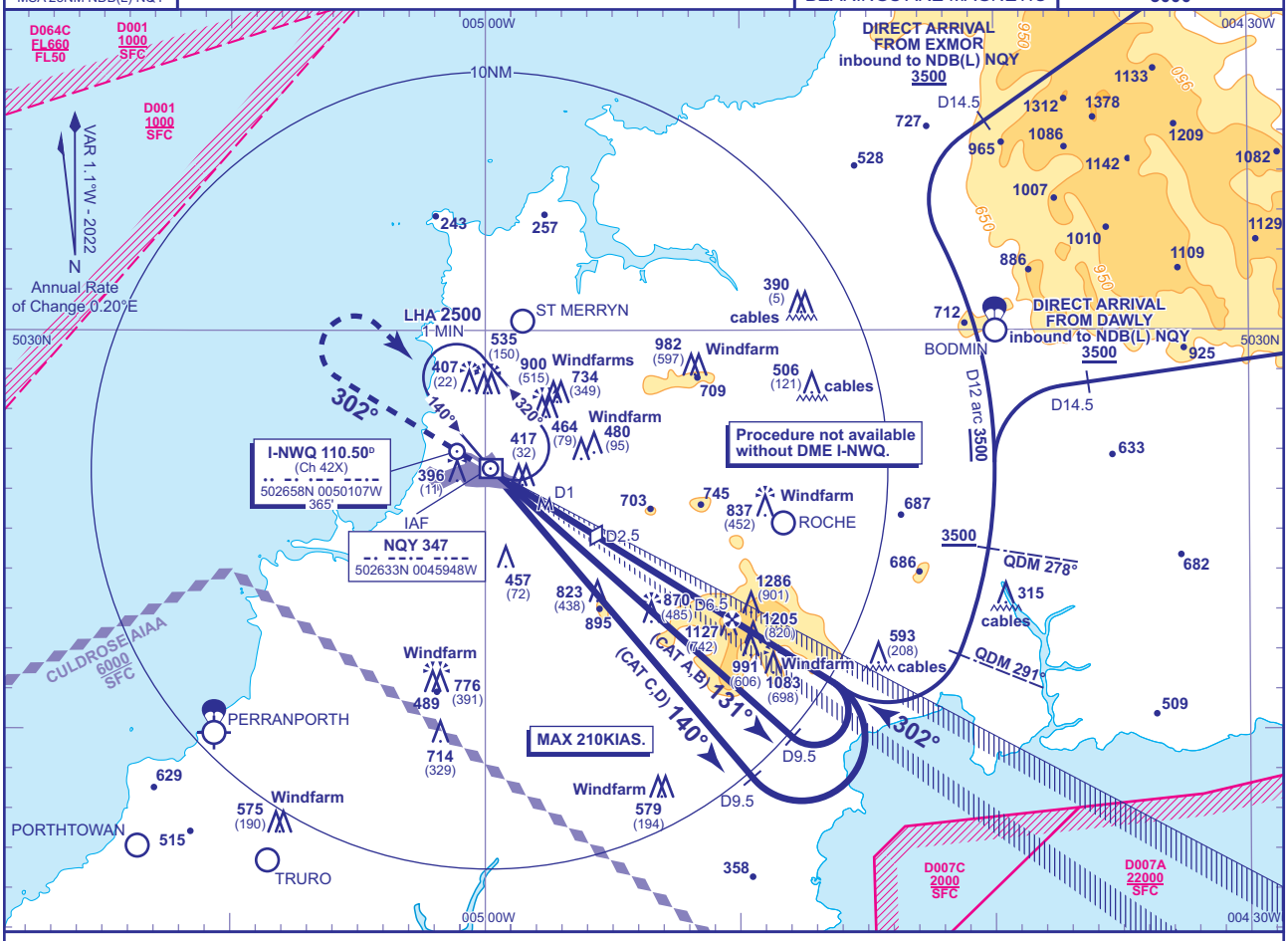
AERO INFO DATE 14 MAR 24

INSTRUMENT APPROACH CHART - ICAO

NEWQUAY LOC/DME/NDB(L) RWY 30
(ACFT CAT A,B,C,D)

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	390	TRANSITION ALTITUDE 3000
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	385	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION 1286 AMSL (901) (ABOVE THR)		
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		

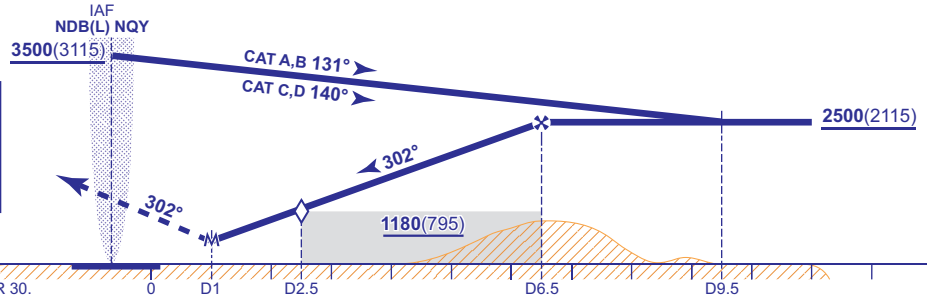
MSA 25NM NDB(L) NQY



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-NWQ	6	5	4	3	2.5 **(SDF)**	2
ALT(HGT)	**2350**(1965)	**2030**(1645)	**1710**(1325)	**1390**(1005)	**1230**(845)	**1070**(685)

MAPt I-NWQ DME 1
Climb to **2500**, initially straight ahead; on passing **1500** or **I-NWQ DME** 3 whichever is later, turn right to return to **NDB(L) NQY** at **2500** or as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**750**(365)	**750**(365)	**750**(365)	**750**(365)
VM(C)OCA (OCH AAL)	Total Area	**790**(400)	**1200**(810)	**1330**(940)	**1330**(940)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

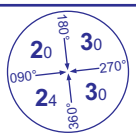
NOTE ATC will normally require aircraft to hold no lower than **3500.**

CHANGE (4/24): OCA(OCH) CAT I AMENDED TO PROCEDURE.

AERO INFO DATE 22 JAN 24 AD 2-EGHQ-8-6

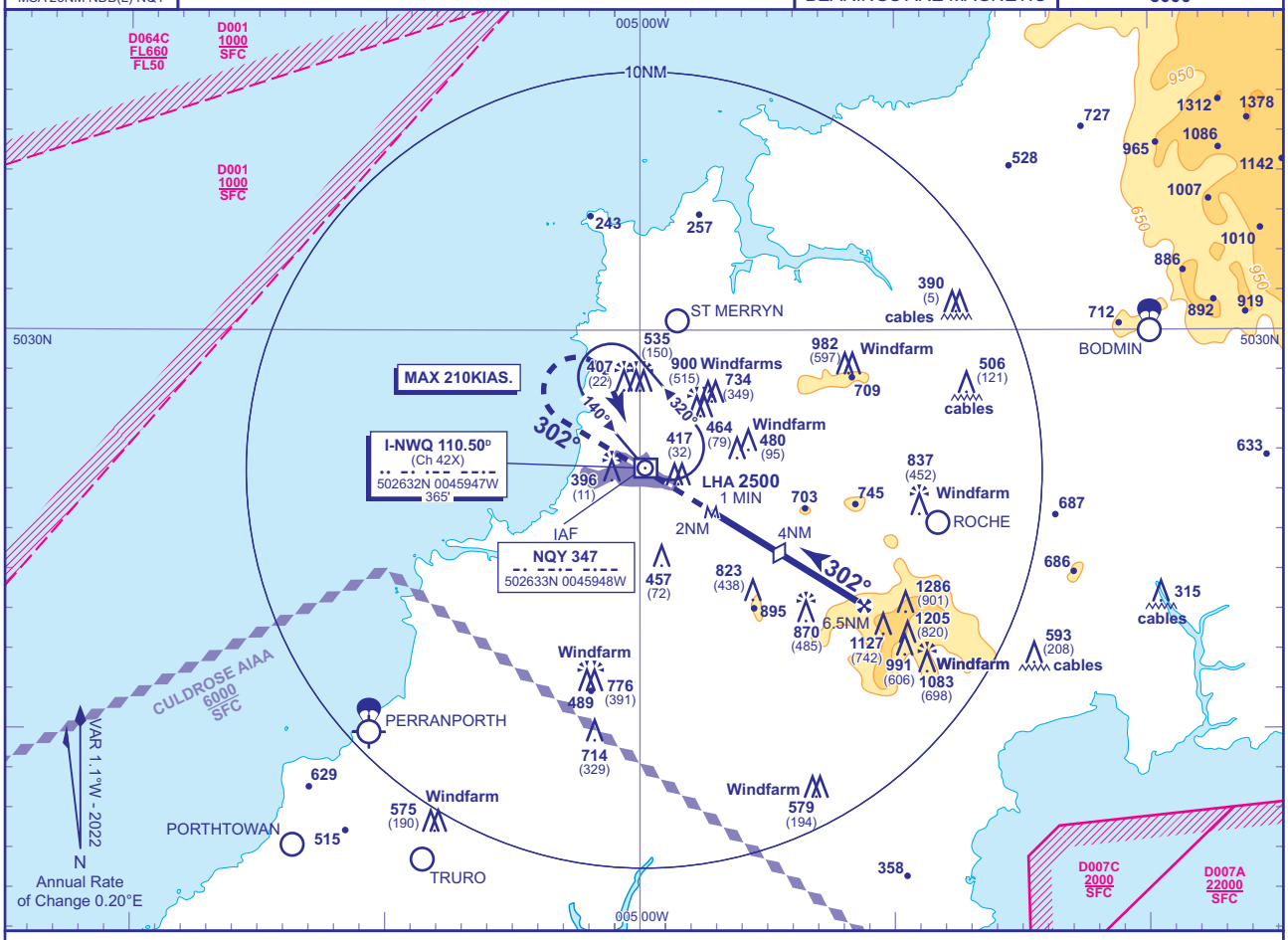
INSTRUMENT APPROACH CHART - ICAO

NEWQUAY SRA RTR 2NM RWY 30
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NQY

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	390	TRANSITION ALTITUDE 3000
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	385	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION 1286 AMSL (901) (ABOVE THR)		
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		

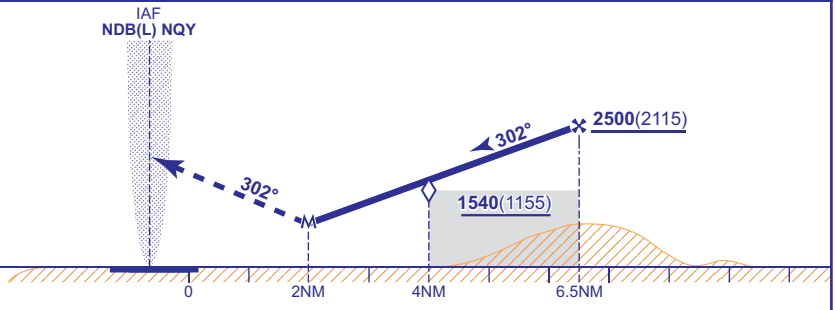


RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

NM (Radar Ranges)	6	5	4 (SDF)	3	2
ALT(HGT)	**2350**(1965)	**2030**(1645)	**1710**(1325)	**1390**(1005)	**1070**(685)

MAPt RTR 2NM

Climb to **2500**, initially straight ahead; on passing **1500** or **I-NWQ DME** 3 whichever is later, turn right to return to **NDB(L) NQY** at **2500** or as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**1070**(685)	**1070**(685)	**1070**(685)	**1070**(685)
VM(C)OCA (OCH AAL)	Total Area	**1070**(680)	**1200**(810)	**1330**(940)	**1330**(940)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

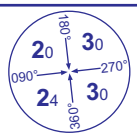
NOTE 1 ATC will normally require aircraft to hold no lower than **3500.**
2 Radar Ranges are to the threshold of RWY 30.

CHANGE (6/24): VM(C)OCA(OCH AAL) CAT A INCREASE.

AERO INFO DATE 14 MAR 24

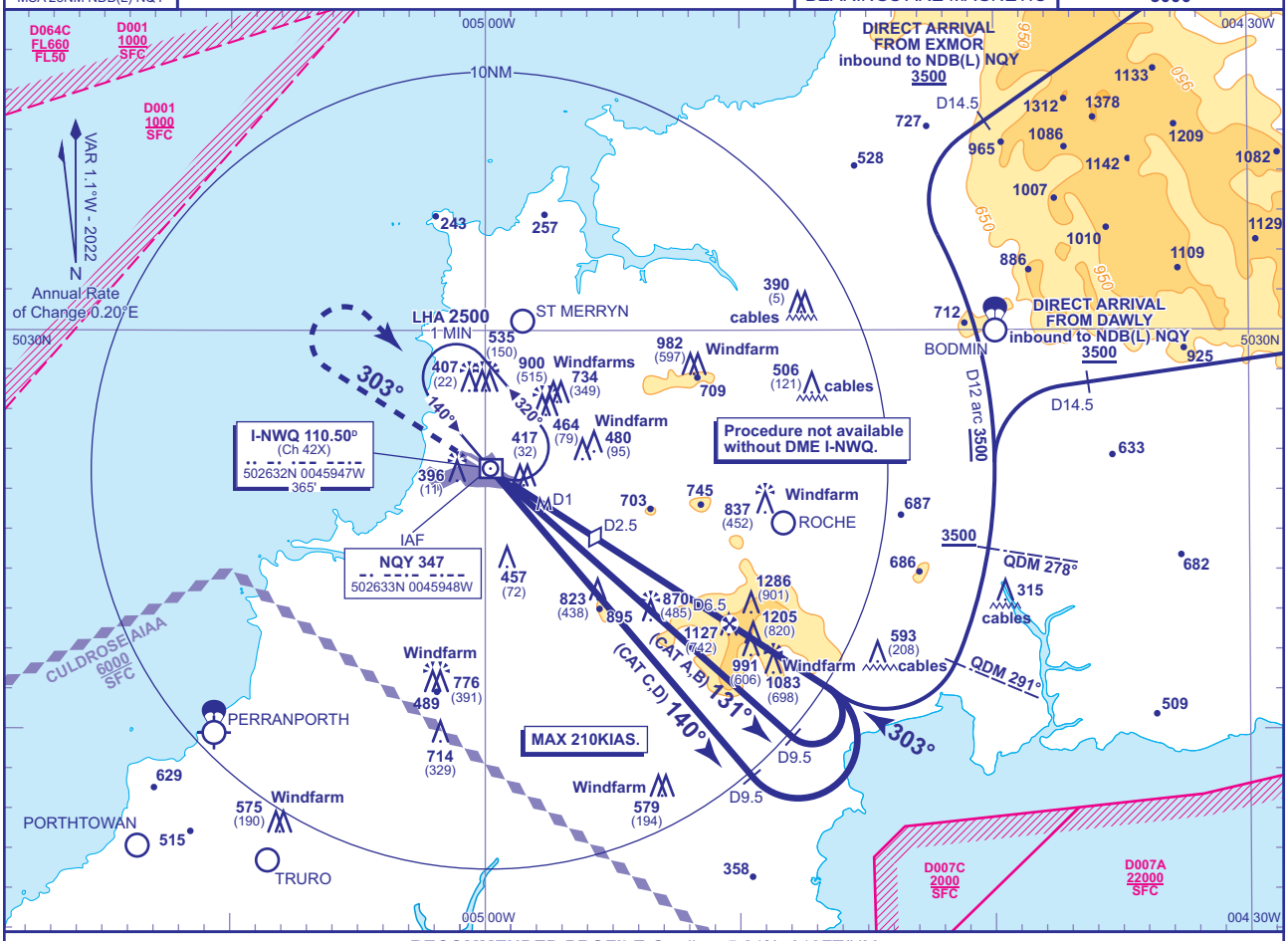
INSTRUMENT APPROACH CHART - ICAO

NEWQUAY NDB(L)/DME RWY 30
(ACFT CAT A,B,C,D)



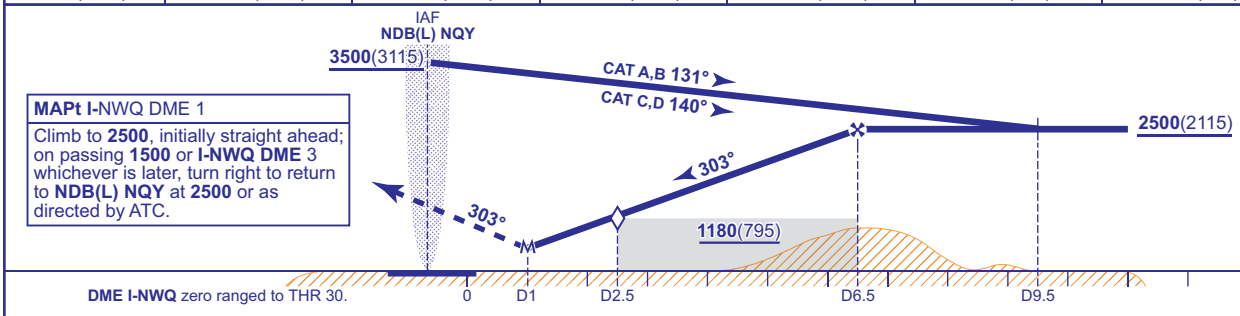
MSA 25NM NDB(L) NQY

APP	133.405	NEWQUAY APPROACH	AD ELEVATION	390	TRANSITION ALTITUDE 3000
TWR	134.380	NEWQUAY TOWER	THR ELEVATION	385	
RAD	127.930	NEWQUAY RADAR	OBSTACLE ELEVATION 1286 AMSL (901) (ABOVE THR)		
ATIS	127.405	NEWQUAY INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-NWQ	6	5	4	3	2.5 (SDF)	2
ALT(HGT)	**2350**(1965)	**2030**(1645)	**1710**(1325)	**1390**(1005)	**1230**(845)	**1070**(685)



MAPt I-NWQ DME 1
Climb to **2500**, initially straight ahead; on passing **1500** or **I-NWQ DME** 3 whichever is later, turn right to return to **NDB(L) NQY** at **2500** or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**1040**(655)	**1040**(655)	**1040**(655)	**1040**(655)
VM(C)OCA (OCH AAL)	Total Area	**1040**(650)	**1200**(810)	**1330**(940)	**1330**(940)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE ATC will normally require aircraft to hold no lower than **3500.**

CHANGE (9/23): D001 ACTIVATED BY NOTAM.

AERO INFO DATE 15 JUN 23

AD 2-EGHQ-8-8

EGAD — NEWTOWNARDS

EGAD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGAD — NEWTOWNARDS

EGAD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 543452N Long: 0054131W Mid point of Runway 03/21
2	Direction and distance from city	8.5 NM E of Belfast.
3	Elevation / Reference temperature / Mean Low Temperature	9 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.97°W (2027) / 0.20°E
6	AD Administration Address Telephone Telefax	ULSTER FLYING CLUB Ards Aerodrome, Portaferry Road, Newtownards, Co. Down, BT23 8SG, N. Ireland. 028-9181 3327 028-9181 4575
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGAD AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600) and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. The AD operates outside of notified hours.

EGAD AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL, MOGAS W80, W100
3	Fuelling facilities/capacity	AVGAS: Overground Tank. AVTUR: Bowser.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Subject to availability.
6	Repair facilities for visiting aircraft	
7	Remarks	

EGAD AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity.
2	Restaurants	On site.
3	Transportation	Public transport available.
4	Medical facilities	Local.
5	Bank and Post Office	Local.
6	Tourist Office	Local.
7	Remarks	

EGAD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1
2	Rescue equipment	RFFS Category 1 Appliance.
3	Capability for removal of disabled aircraft	Yes.
4	Remarks	

EGAD AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGAD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway MAIN TAXIWAY: Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGAD AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Illuminated wind direction indicator

EGAD AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
21/APPROACH 03/TAKE-OFF	High Ground	543542.26N 0054038.41W	180 FT		No	
21/APPROACH 03/TAKE-OFF	Trees	543536.68N 0054034.27W	235 FT		No	
21/APPROACH 03/TAKE-OFF	High Ground	543529.36N 0054040.26W	206 FT		No	
15/APPROACH 33/TAKE-OFF	Radio Mast	543529.17N 0054155.47W	153 FT		Yes Red	
15/APPROACH 33/TAKE-OFF	Lampposts	543508.76N 0054136.75W	18 FT		Yes Red	
26/APPROACH 08/TAKE-OFF	High Ground	543507.57N 0054000.84W	170 FT		No	
33/APPROACH 15/TAKE-OFF	Sea Wall	543447.97N 0054114.91W	19 FT		No	
03/APPROACH 21/TAKE-OFF	Vehicles on road	543430.91N 0054153.18W	18 FT		No	
03/APPROACH 21/TAKE-OFF	Building	543430.54N 0054150.98W	30 FT		No	
03/APPROACH 21/TAKE-OFF	Tree	543428.62N 0054152.20W	40 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Hill with radio masts	543658.42N 0054502.72W	745 FT		Yes	
	High Ground	543520.90N 0054021.24W	175 FT		No	
	Chimney	543459.78N 0054140.42W	95 FT		Yes	
	Scrabo Tower	543448.27N 0054256.25W	665 FT		Yes	
	Scrabo Hill	543448.12N 0054247.90W	520 FT		No	

EGAD AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGAD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
03	031.17°	791 x 18 M	RWY surface: Asphalt	543440.67N 0054142.72W	THR 9.0 FT	
21	211.17°	791 x 18 M	RWY surface: Asphalt	543500.46N 0054122.11W	THR 9.0 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
08	076.90°	566 x 18 M	RWY surface: Asphalt	543448.51N 0054150.08W	THR 9.0 FT	
26	256.91°	566 x 18 M	RWY surface: Asphalt	543452.65N 0054119.44W	THR 9.0 FT	
15	149.51°	640 x 18 M	RWY surface: Asphalt	543505.06N 0054132.65W	THR 9.0 FT	
33	329.52°	640 x 18 M	RWY surface: Asphalt	543451.74N 0054119.15W	THR 9.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 03
						RWY 21 Threshold displaced by 74 M.
						RWY 08
						RWY 26
						RWY 15 Threshold displaced by 84 M.
						RWY 33 Threshold displaced by 76 M.

EGAD AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	717 M	747 M	791 M	791 M	
21	791 M	791 M	791 M	717 M	
08	566 M	566 M	566 M		
26				566 M	
15	564 M	594 M	614 M	530 M	
33	556 M	586 M	640 M	564 M	

EGAD AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03		Green Light intensity low	PAPI Left/4.5° 18 FT			White Light intensity low	Red		
21		Light intensity low Green wingbars	PAPI Left/4.5° 18 FT			White Light intensity low	Red		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
15		Green Light intensity low	PAPI Right/ 4.5° 18 FT			White Light intensity low	Red		
33		Green Light intensity low	APAPI Left/4.5° 18 FT			White Light intensity low	Red		

EGAD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	EDGE: Blue LI edge lights from main apron to Runway 21 start of full width starter extension (Shown in red as 03 stop bar on aerodrome plan). Blue LI edge lights marking a triangular taxiway to the southeast of Runway 21 from the intersection of Runway 08 with Runway 21 along Runway 08/26 to the intersection with Runway 15/33 and then along Runway 33 to the intersection with Runway 21.
4	Secondary power supply/switch-over time	
5	Remarks	

EGAD AD 2.16 HELICOPTER LANDING AREA

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EGAD AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
NEWTOWNARDS ATZ A circle, 2 NM radius, centred at 543452N 0054131W on longest notified runway (03/ 21)	Upper limit: 2000 FT AGL Lower limit: SFC	D G	NEWTOWNARDS RADIO English	3000 FT		Note: Partly within Belfast/City CTR and CTA 3.

EGAD AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	NEWTOWNARDS RADIO	128.305 A/G frequency.			0900–1700 (0800–1600) and by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGAD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGAD AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aircraft (including microlight aircraft) using Newtownards Aerodrome are to carry third party liability insurance cover meeting or exceeding the appropriate European Directive requirements.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) There is high ground and a lighted obstruction (Scrabo Tower) that infringes the protected surface of the 26 climb-out. There are near-in lamp standards on the Comber Road that may present an obstruction in the event of a late decision to commence a missed approach. Turbulence may be experienced during a missed approach.

Advice: Pilots of aircraft carrying out an approach to Runway 26 should satisfy themselves at or above 300 FT that they can safely land and stop on the runway. In the event of any doubt pilots are advised to commence a missed approach and make an early left turn to avoid the high ground. The pilot of an aircraft attempting to make a landing on Runway 26, who has not established wheels firmly on the ground before crossing the intersection with Runway 21, is advised to commence a missed approach. Once established in the climb an early left turn should be made away from the rising ground.

b) Pilots landing on Runway 33 should exercise caution on the approach to avoid possible pedestrian and vehicular traffic on the sea wall. Turbulence and windshear may be experienced on approach to Runway 33 in conditions of strong winds.
c) The aerodrome is frequently used outside the published hours of operation.
d) Pilots to exercise cautions as different heights and sizes of circuits may be in use simultaneously.

i. Pilots of Microlight aircraft using the 700 FT circuit to exercise caution when turning base due to potential conflict with aircraft on final.
ii. Pilots of aircraft flying the 1000 FT circuit to exercise caution due to potential conflict with aircraft operating in the 700 FT circuit.

e) Public road runs at right angles to the approach and under Runway 15 approach path beyond the aerodrome boundary.
f) Lamp standards (Lgtd with red warning lights and painted with red and white bands) approximately 5 M from aerodrome boundary, 26 FT AMSL, 140 M from Runway 15 threshold.
g) Vehicles on public road 150 M from Runway 15 threshold.
h) Model aircraft activity on the aerodrome located at the western hangars. All model flyers will have radio contact on 128.305 MHz and will not operate on active runways.

5 HELICOPTER OPERATIONS

In order to minimise the impact of noise on local residents ALL helicopters operating into or from Newtownards shall obey the following restrictions.

a) **Approaches**

i. Helicopters shall not approach the aerodrome through the sector of the aerodrome traffic zone between the extended centre-line of Runway 21 and the extended centre-line of Runway 26, and helicopters shall not make any approaches to Runway 08. If approaching the aerodrome from the west they shall either route to the north of Scrabo Hill or join the extended centre-line of Runway 03 before the ATZ boundary and thereafter remain to the right of the runway centre-line.

b) **Departures**

i. Helicopters departing from Runway 21 shall ensure that they do not fly west of the extended 21 centre-line until outside the ATZ.
ii. Helicopters shall not depart from Runway 26.

c) **Hovering on the Aerodrome**

i. Visiting helicopters shall not carry out hovering practice at Newtownards without specific prior permission. Arriving helicopters shall route as expeditiously as possible to their planned set down area and shall shut down as soon as possible.
ii. Local helicopters shall take all possible actions to minimise noise impact from hover practice by avoiding hover training up-wind of residential areas.

6 USE OF RUNWAYS

a) Runway 26 is available for landing only.

b) Runway 08/26 is not available to solo students.
c) Grass Runway 15/33 is unlicensed, for details including dimensions/declared distances contact the aerodrome.

7 TRAINING

Not applicable

EGAD AD 2.21 NOISE ABATEMENT PROCEDURES

a) Avoid overflying bird sanctuary at Castle Espie.

EGAD AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit directions; Runway 03 - RH; Runways 21, 15 and 33 - LH.
b) Runway 26 is not available for circuits.
c) Circuit height: 1000 FT AAL. Microlight circuit height for aircraft flying at IAS less than 70 KT 700 FT AAL. Microlight pilots using the 700 FT circuit to prefix Downwind radio call with ‘Microlight’.

EGAD AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGAD AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGAD-2-1

EGAD AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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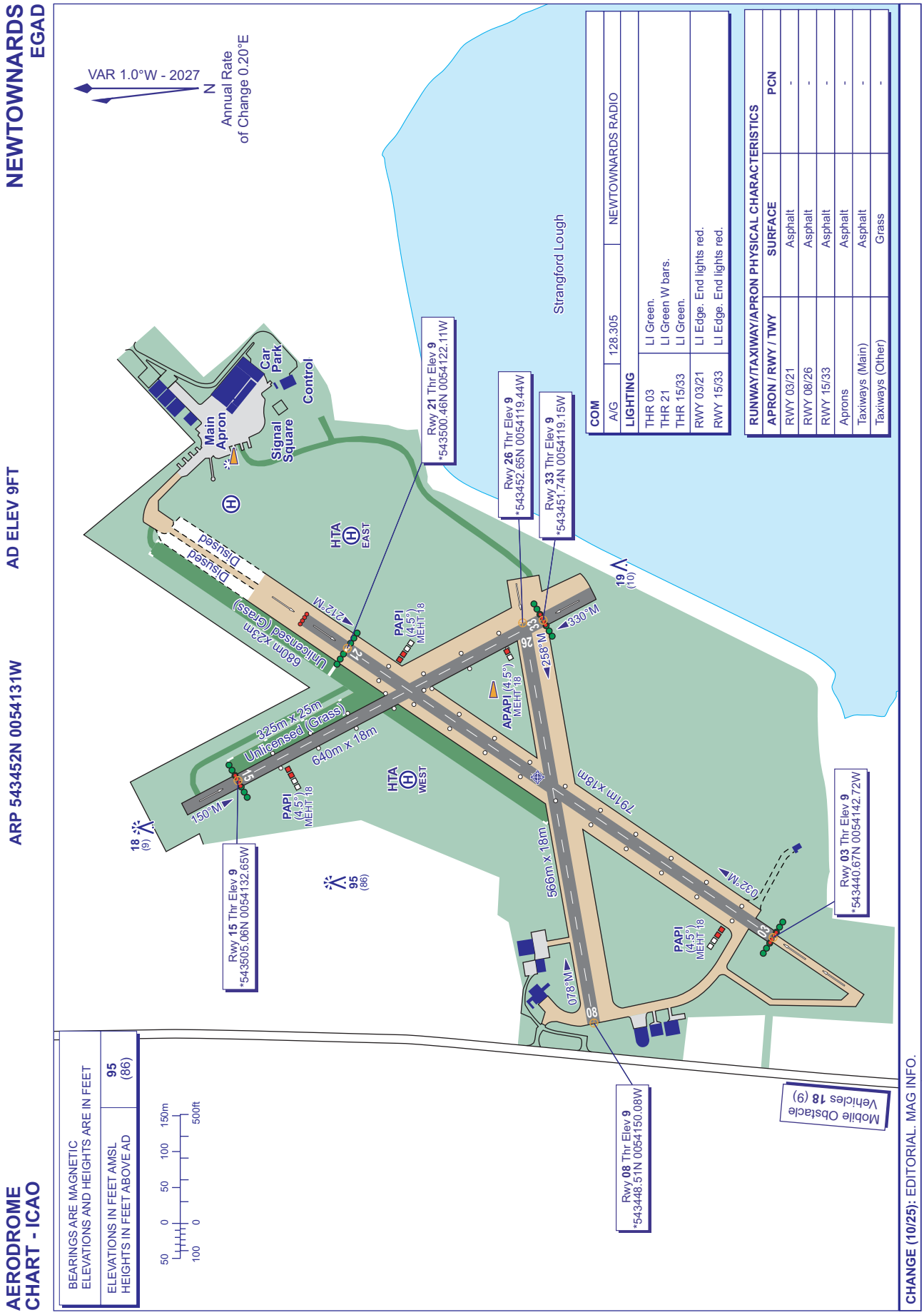

AERO INFO DATE 21 JUL 25

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EGEN — NORTH RONALDSAY

EGEN AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEN — NORTH RONALDSAY

EGEN AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 592203N Long: 0022604W
2	Direction and distance from city	28 NM NE by N of Kirkwall.
3	Elevation / Reference temperature / Mean Low Temperature	56 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.26°W (2027) / 0.22°E
6	AD Administration Address Telephone Telefax E-mail address	ORKNEY ISLANDS COUNCIL. Council Offices, Kirkwall, Orkney Islands, KW15 1NY, Scotland. 01856-873535 01856-876094 developmentandinfrastructure@orkney.gov.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGEN AD 2.3 OPERATIONAL HOURS

1	AD Administration	Hours Subject to PPR.
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	
8	Fuelling	Not applicable.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR, a valid indemnity is required. Full details of landing fees and rules for airfield users can be found on the Orkney Islands Council website: http://www.orkney.gov.uk/Service-Directory/T/airfields.htm

EGEN AD 2.4 HANDLING SERVICES AND FACILITIES

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EGEN AD 2.5 PASSENGER FACILITIES

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EGEN AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGEN AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations. No snow clearing facilities available. During winter months pilots are advised to contact the Airfield Superintendent for the latest runway conditions. Tel: 01856-873535.

EGEN AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGEN AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGEN AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
21/APPROACH 03/TAKE-OFF	Building ridge line	592214.01N 0022540.48W	81 FT		No	
21/APPROACH 03/TAKE-OFF	Building	592213.84N 0022539.66W	66 FT		No	
21/APPROACH 03/TAKE-OFF	O H Electricity Pole	592213.61N 0022544.67W	78 FT		No	
21/APPROACH 03/TAKE-OFF	O H Electricity Lines	592213.50N 0022542.81W	78 FT		No	
21/APPROACH 03/TAKE-OFF	O H Electricity Pole	592213.34N 0022541.16W	80 FT		No	
21/APPROACH 03/TAKE-OFF	Building	592208.94N 0022552.28W	83 FT		No	
28/APPROACH 10/TAKE-OFF	Building	592201.30N 0022534.48W	66 FT		No	
03/APPROACH 21/TAKE-OFF	Ridge Line Old Church	592152.66N 0022601.28W	90 FT		No	
03/APPROACH 21/TAKE-OFF	Church Tower	592152.55N 0022600.28W	94 FT		No	
03/APPROACH 21/TAKE-OFF	Antenna Mast	592152.50N 0022605.72W	93 FT		No	
31/APPROACH 13/TAKE-OFF	Building	592151.50N 0022534.40W	93 FT		No	
31/APPROACH 13/TAKE-OFF	Building	592149.16N 0022535.98W	88 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Lighthouse	592322.70N 0022252.78W	175 FT		Yes	
	TV Tower	592317.51N 0022249.57W	159 FT		No	

EGEN AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGEN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
03	026.76°	331 x 18 M	RWY surface: Graded Hardcore	592158.60N 0022557.42W	THR 59.0 FT	
21	206.76°	331 x 18 M	RWY surface: Graded Hardcore	592206.13N 0022549.98W	THR 57.0 FT	
10	094.98°	527 x 18 M	RWY surface: Graded Hardcore	592203.99N 0022621.55W	THR 42.0 FT	
28	274.98°	527 x 18 M	RWY surface: Graded Hardcore	592202.51N 0022548.28W	THR 55.0 FT	
13	132.22°	304 x 30 M	RWY surface: Grass	592205.04N 0022605.48W	THR 52.0 FT	
31	312.23°	304 x 30 M	RWY surface: Grass	592158.43N 0022551.21W	THR 59.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 03 Starter extension of 30 M.
						RWY 21 Starter extension of 36 M.
						RWY 10 While arriving or departing from Runway 10 for approximately 150 M the 28 threshold is not visible and when arriving or departing Runway 28 for approximately 250 M the 10 threshold is not visible.
						RWY 28 While arriving or departing from Runway 10 for approximately 150 M the 28 threshold is not visible and when arriving or departing Runway 28 for approximately 250 M the 10 threshold is not visible.
						RWY 13
						RWY 31

EGEN AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
10	527 M	527 M	527 M	527 M	
28	527 M	527 M	527 M	527 M	
13	304 M	304 M	304 M	304 M	
31	304 M	304 M	304 M	304 M	

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	292 M	292 M	292 M	262 M	TORA, TODA and ASDA include a 30 M starter extension.
21	298 M	298 M	298 M	262 M	TORA, TODA and ASDA include a 36 M starter extension.

EGEN AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
21		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
10		Green Light intensity low	APAPI Left/3.8° 5 FT			Omni-directional White Light intensity low	Red Light intensity low		
28		Green Light intensity low	APAPI Left/3.8° 5 FT			Omni-directional White Light intensity low	Red Light intensity low		

EGEN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGEN AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 592205.97N 0022552.04W
2	TLOF and/or FATO elevation	TLOF: 56.0 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGEN AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGEN AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

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EGEN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGEN AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All GA aircraft must park only on the clearly designated grass GA APRON. GA aircraft must not park on the main tarmac apron.
b) All pilots must be aware of a restriction in place for Runway 03/21. Any aircraft or obstacles on the main apron encroach the cleared and graded area of the runway strip of Runway 03/21. While aircraft or obstacles are present anywhere on the main apron, Runway 03/21 is unusable.
c) This constitutes a variation to the licence for this aerodrome.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) **Runway 10/28 and 03/21:** Graded hardcore runway is generally unsuitable for light aircraft with low ground/propeller clearance due to unstabilised surface and as a result it would be advisable to carry out any power checks on the tarmac apron before departure.
b) Visiting pilots should note that during periods of prolonged rainfall the grass runway can become very soft especially during the winter months.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGEN AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGEN AD 2.22 FLIGHT PROCEDURES

Not applicable

EGEN AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGEN AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEN-2-1

EGEN AD VISUAL SEGMENT SURFACE (VSS) PENETRATION

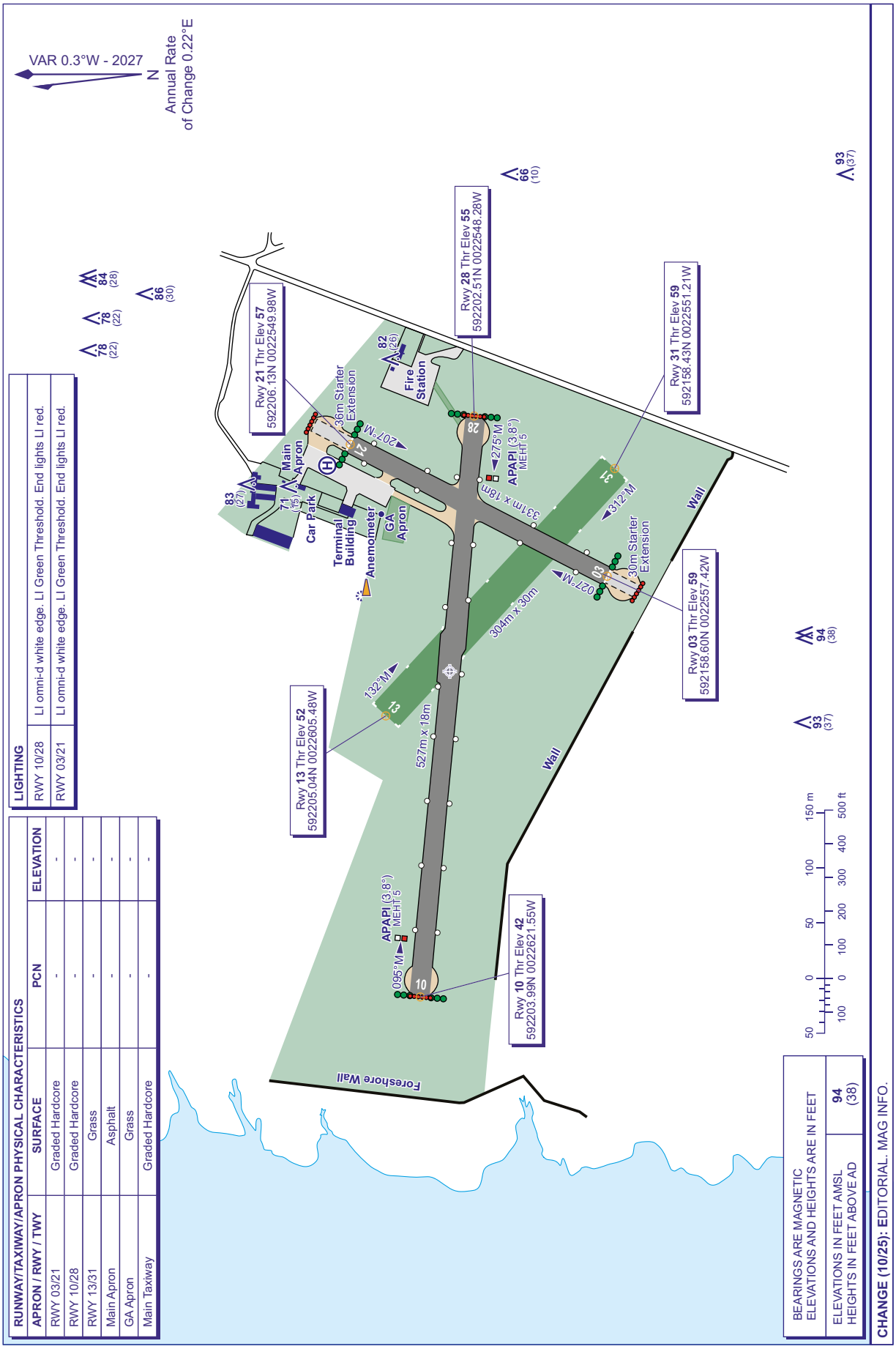
Not applicable

AERODROME CHART - ICAO

NORTH RONALDSAY EGEN

ARP 592203N 0022604W

AD ELEV 56FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 03/21	Graded Hardcore	-	-
RWY 10/28	Graded Hardcore	-	-
RWY 13/31	Grass	-	-
Main Apron	Asphalt	-	-
GA Apron	Grass	-	-
Main Taxiway	Graded Hardcore	-	-

LIGHTING	
RWY 10/28	Ll omni-d white edge. Ll Green Threshold. End lights Ll red.
RWY 03/21	Ll omni-d white edge. Ll Green Threshold. End lights Ll red.

AERO INFO DATE 21 JUL 25

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EGSH — NORWICH

EGSH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSH — NORWICH

EGSH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 524033N Long: 0011658E Mid-point of Runway 09/27.
2	Direction and distance from city	2.8 NM N of Norwich City Centre.
3	Elevation / Reference temperature / Mean Low Temperature	117 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	147 FT
5	Magnetic Variation / Annual Change	0.91°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax E-mail address	NORWICH AIRPORT LIMITED. Amsterdam Way, Norwich NR6 6JA. 01603-411923 (Administration) 01603-420658 (Operations) 07921-055373 (Terminal Services Manager) 01603-420675 (Customer Services) 01603-487523 (Administration) 01603-414927 (Operations) 01603-420636 (Customer Services) ops@norwichairport.co.uk (Operations)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Use of this airport by aircraft not able to communicate with ATC by radio subject to prior permission. Aircraft towing banners, or non-powered gliders, may not land at or depart from the airport.

EGSH AD 2.3 OPERATIONAL HOURS

1	AD Administration	0600-2130 (0500-2030). Outside of these hours see remarks.
2	Customs and immigration	As AD Hours
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours.
8	Fuelling	As AD hours and by arrangement.
9	Handling	As AD hours and on request.
10	Security	As AD hours.
11	De-icing	October to April during AD hours on request to Operations.
12	Remarks	01 May - 31 Oct: Mon to Thu, Sat 0600-2230 (0500-2130); Fri and Sun 0600-2300 (0500-2200). 01 Nov - 30 Apr: Sun to Fri 0600-2130; Sat 0600-2000. This aerodrome is strictly PPR. All movements outside published operating hours incur an extra charge. All requests to be made via Operations. Any changes to operating hours will be notified by NOTAM action.

EGSH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Nearest railway siding: Norwich.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL.
3	Fuelling facilities/capacity	Above ground storage: JET A-1 225,000 L; AVGAS 30,000 L.
4	De-icing facilities	On request to Operations during AD hours.
5	Hangar space for visiting aircraft	None.

6	Repair facilities for visiting aircraft	None.
7	Remarks	All aircraft operating for hire or reward from/to Norwich will be required to be handled by Norwich Airport Ltd. Handling should be requested by telephoning Operations on 01603-420658; Fax: 01603-414927 or e-mail: ops@norwichairport.co.uk or telephone the Terminal Services Manager on 01603-420645; Fax: 01603-420646. Norwich Handling Frequency 131.855 MHz. For fuel contact Fuel Services, Tel: 01603-402042. E-mail: fuel@norwichairport.co.uk or via Norwich Airport Phone: 01603-420658 (Operations). SaxonAir are the preferred handling agents for GA and Business aviation. Handling by and use of the SaxonAir Apron is subject to Prior Permission from SaxonAir Operations. Tel: 01603-510110; Fax: 01603-488879; e-mail: handling@saxonair.com; website: www.saxonair.com

EGSH AD 2.5 PASSENGER FACILITIES

1	Hotels	Airport Hotel. Hotels in vicinity.
2	Restaurants	Restaurant and Licensed bar.
3	Transportation	Taxis and car hire, Limited bus service. Motor coaches by arrangement. Nearest railway station: Norwich.
4	Medical facilities	First Aid available during AD hours. Doctors and ambulance on call.
5	Bank and Post Office	Cash dispenser.
6	Tourist Office	Limited tourist information available from the airport information desk.
7	Remarks	

EGSH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 7 and 8 by arrangement. RFF Category 7 operations at remission level manning.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Norwich Airport Ltd has an agreement with a local recovery company which holds resources capable of recovering aircraft up to 160,000 kg. Contact Air Ops: 07872-376275
4	Remarks	

EGSH AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing. Runways and Taxiways anti-iced and de-iced with KAC fluid, supplemented with NAAC de-icing granules as required.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Norwich airport policy on clearing a contaminated runway will always be to clear back to blacktop. Therefore braking action readings derived from the use of a Grip tester friction meter, or any other source will not be available. Estimated braking action in accordance with CAP 1168, may be available. If the runway is open, standard operating procedures will be to pass flight crews the amount, depth and type of contamination only. Latest information from ATC, Tel: 01603-420641.

EGSH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	SAXONAIR Surface: Concrete PCN 32/R/C/W/U WESTERN Surface: Concrete PCN 5/R/C/Y/U

2	Taxiway width, surface and strength	Taxiway A: 15 M Surface: Concrete and asphalt PCN 16/R/D/W/T Taxiway B: 15 M Surface: Asphalt PCN 14/R/D/Y/T Taxiway C: 18 M Surface: Asphalt PCN 56/F/C/Y/U Taxiway D: 17.5 M Surface: Asphalt PCN 29/R/D/Y/U Taxiway E: 15 M Surface: Asphalt PCN 15/R/D/Y/T Taxiway N: 15 M Surface: Concrete and asphalt Taxiway TAXILANE LINK E: 8.5 M Surface: Concrete PCN 8/R/C/W/T
3	Altimeter checkpoint location and elevation	Apron 101 FT
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart
6	Remarks	Transverse surface gradients on Stands 4, 5 and 6 fall marginally outside the CAA/ICAO recommended criteria. Operators should be aware that localised gradients of 1 in 65 (1.54%) maximum have been confirmed within the above stand centre-line areas Western Apron is from E1 to E3.

EGSH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Apron Stands numbered 1 to 6 are located in front of the Terminal. These stands have stand number, yellow centre-line and ground stop marking and are designed for nose-in parking. Stand 7 is located on an area north of the terminal. Visiting aircraft may be required to park on Stand 9, located on the Eastern Apron in front of Hangar 8. There are no Stand Entry Guidance or Visual Docking Guidance Systems. All aircraft are required to be marshalled onto all stands. Transport will be provided for access to and from Stands 7 and 9.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 09/27: Runway 27 - Runway designation, runway centre-line, fixed distance, touchdown and threshold markings. Side strip. Stop and guard lights at runway/taxiway intersections. Green turning circle. Runway 27 turning circle is marked by yellow line and alternate amber/green lighting with blue taxiway edge lights. Runway 09 - Runway designation, runway centre-line and threshold markings. Side strip. Stop and guard lights at runway/taxiway intersections. Runway 09 turning circle has yellow line and blue taxiway edge lighting only. Taxiway marking aid(s): Yellow lines.
3	Stop bars and runway guard lights (if any)	All runway holding points.
4	Other runway protection measures	
5	Remarks	WDI: 524041.84N 0011650.67E. Two WDIs 200 M from Runway 09 and Runway 27 thresholds: 524029.00N 0011623.29E (LGTD) and 524029.34N 0011733.90E (LGTD).

EGSH AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSH1063) 09/APPROACH	TREES	524039.97N 0011543.04E	181 FT	68 FT	No	
(EGSH1059) 09/APPROACH	TREES	524039.88N 0011540.47E	183 FT	70 FT	No	
(EGSH1066) 09/APPROACH	TREES	524037.72N 0011546.26E	163 FT	47 FT	No	
(EGSH1250) 27/APPROACH 09/ TAKE-OFF	FENCE	524037.47N 0011749.70E	112 FT	8 FT	No	
(EGSH1303) 09/APPROACH 27/ TAKE-OFF	TREES	524037.47N 0011520.88E	182 FT	69 FT	No	
(EGSH1310) 09/APPROACH 27/ TAKE-OFF	TREES	524037.23N 0011545.07E	164 FT	51 FT	No	
(EGSH1312) 09/APPROACH 27/ TAKE-OFF	TREES	524036.53N 0011545.29E	151 FT	38 FT	No	
(EGSH1302) 09/APPROACH 27/ TAKE-OFF	TREES	524036.42N 0011520.47E	171 FT	58 FT	No	
(EGSH1313) 09/APPROACH 27/ TAKE-OFF	TREES	524035.12N 0011546.55E	141 FT	28 FT	No	
(EGSH1309) 09/APPROACH 27/ TAKE-OFF	TREES	524035.09N 0011542.35E	152 FT	39 FT	No	
(EGSH1311) 09/APPROACH 27/ TAKE-OFF	TREES	524034.90N 0011544.99E	146 FT	33 FT	No	
(EGSH1308) 09/APPROACH 27/ TAKE-OFF	TREES	524034.77N 0011539.64E	154 FT	41 FT	No	
(EGSH1307) 09/APPROACH 27/ TAKE-OFF	TREES	524034.30N 0011535.85E	158 FT	45 FT	No	
(EGSH1070) 27/TAKE-OFF	ROAD 4 8M	524033.37N 0011549.89E	135 FT	17 FT	No	
(EGSH1268) 27/APPROACH 09/ TAKE-OFF	TREE	524033.34N 0011816.14E	144 FT	38 FT	No	
(EGSH1305) 09/APPROACH 27/ TAKE-OFF	TREES	524033.04N 0011525.31E	161 FT	48 FT	No	
(EGSH1071) 27/TAKE-OFF	FENCE	524032.87N 0011550.60E	127 FT	9 FT	No	
(EGSH1264) 09/TAKE-OFF	TREES	524032.79N 0011811.22E	122 FT	14 FT	No	
(EGSH1076) 27/TAKE-OFF	27 LLZ OBS LT	524032.49N 0011553.88E	125 FT	9 FT	Yes Red	
(EGSH1256) 27/APPROACH 09/ TAKE-OFF	ROAD 4 8M	524032.40N 0011759.79E	118 FT	15 FT	No	
(EGSH1048) 27/TAKE-OFF	TREE	524030.88N 0011526.65E	161 FT	40 FT	No	
(EGSH1266) 09/TAKE-OFF	TREES	524029.83N 0011811.31E	130 FT	22 FT	No	
(EGSH1049) 27/TAKE-OFF	TREES	524028.42N 0011528.10E	150 FT	27 FT	No	
(EGSH1080) 09/APPROACH	TREE	524025.26N 0011555.31E	158 FT	44 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
DRAYTON	CRANES	524105.93N 0011320.99E	243 FT	132 FT	Yes Red	Operating until 31 December 2026.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
TAVERHAM	CRANE	524101.19N 0011054.90E	256 FT	125 FT	Yes Red	Operating until January 2026.
C0024A	CRANE	524059.23N 0011328.70E	244 FT	131 FT	Yes Red	Drayton. Expected until December 2028.
(EGSH1190)	FLOODLIGHT	524020.37N 0011704.79E	223 FT	120 FT	Yes Red	
(EGSH1106)	FLATS	523901.39N 0011614.39E	202 FT	113 FT	No	
(EGSH1276)	AERIAL	523857.83N 0011941.21E	271 FT	156 FT	Yes Red	
(EGSH1046)	CHIMNEY	523849.28N 0011517.83E	206 FT	137 FT	Yes Red	
(EGSH1281)	AERIAL	523809.42N 0012013.46E	312 FT	168 FT	No	
(EGSH1269)	CATHEDRAL SPIRE	523755.13N 0011804.76E	339 FT	318 FT	No	
NORWICH CASTLE	CRANE	523741.73N 0011744.86E	248 FT		Yes Red	Operating until 31 December 2024.

EGSH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours
4	Trend forecast Interval of issuance	30 minutes
5	Briefing/consultation provided	Self-briefing/telephone.
6	Flight documentation Language(s) used	TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	Email.
9	ATS units provided with information	NORWICH
10	Additional information (limitation of service, etc.)	

EGSH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
09	089.28°	1842 x 45 M	RWY surface: Concrete and asphalt PCN 56/R/D/W/U	524032.99N 0011608.60E 146.5 FT	THR 117.0 FT TDZ 117.5 FT	
27	269.30°	1842 x 45 M	RWY surface: Concrete and asphalt PCN 56/R/D/W/U	524033.72N 0011746.58E 146.4 FT	THR 105.6 FT TDZ 109.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	152 x 150 M	1962 x 300 M	92 x 90 M -			RWY 09 Instrument Non-Precision Approach. Water patches greater than 9 MM deep may be present on the runway if rain has fallen for extended periods or heavy showers have occurred.
	271 x 150 M	1962 x 300 M	211 x 90 M -			RWY 27 Instrument Precision Approach. Water patches greater than 9 MM deep may be present on the runway if rain has fallen for extended periods or heavy showers have occurred.

EGSH AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1842 M	1993 M	1842 M	1842 M	
27	1842 M	2112 M	1842 M	1842 M	
09	1656 M	1808 M	1656 M		Departure from intersection with Taxiway Delta.
09	850 M	1002 M	850 M		Departure from intersection with Taxiway Charlie.
09	535 M	687 M	535 M		Departure from intersection with Taxiway Bravo.
27	1326 M	1597 M	1326 M		Departure from intersection with Taxiway Bravo.
27	1014 M	1285 M	1014 M		Departure from intersection with Taxiway Charlie.
27	205 M	475 M	205 M		Departure from intersection with Taxiway Delta.

EGSH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Centre-line with one crossbar. 427 M Light intensity high	Green Light intensity high	PAPI Left/3° 45 FT 281 M		15 M Colour coded Light intensity high	Bi-directional with omni-directional component Light intensity high	Red		
27	Coded centre-line with five crossbars. 953 M Light intensity high	Green Light intensity high	PAPI Left/3° 57 FT 344 M		15 M Colour coded Light intensity high	Bi-directional with omni-directional component Light intensity high	Red		

EGSH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 524041.97N 0011646.79E Runway 27: 524029.57N 0011732.85E Runway 09: 524029.11N 0011622.45E
3	TWY edge and centre line lighting	CL: Green centre-line lighting on Taxiway C. EDGE: Blue edge lighting on Taxiways A, B, D and E.
4	Secondary power supply/switch-over time	Yes. Less than 15 seconds. In IRVR of 1500 M or less, less than 1 second.
5	Remarks	Terminal apron floodlighting. Obstacle lighting.

EGSH AD 2.16 HELICOPTER LANDING AREA

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EGSH AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
NORWICH CTR 524530N 0011035E - 524536N 0012308E thence clockwise by the arc of a circle radius 6 NM centred on 524034N 0011747E to 523537N 0012319E - 523531N 0011049E thence clockwise by the arc of a circle radius 6 NM centred on 524033N 0011609E to 524530N 0011035E	Upper limit: 4000 FT ALT Lower limit: SFC	D	NORWICH APPROACH English	5000 FT		
NORWICH ATZ A circle, 2.5 NM radius, centred at 524033N 0011658E on longest notified runway (09/27)	Upper limit: 2000 FT AGL Lower limit: SFC	D	NORWICH APPROACH English	5000 FT		

EGSH AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	NORWICH APPROACH	119.355 DOC 40 NM/ 25,000 FT.			As per AD hours and by arrangement.	CTR/CTA hours coincident with AD hours.
TWR	NORWICH TOWER	124.255 DOC 20 NM/5000 FT.			As per AD hours and by arrangement.	
RADAR	NORWICH DIRECTOR	128.330 Not continuously monitored.			When Instructed by ATC	LARS is provided during Radar opening hours to a range of 30 NM.
	NORWICH RADAR	119.355 DOC 40 NM/ 25,000 FT.			As per AD hours and by arrangement.	
ATIS	NORWICH INFORMATION	128.630 DOC 60 NM/ 20,000 FT.			As per AD hours and by arrangement.	Arrivals ATIS. Auto METAR when AD closed.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	NORWICH FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGSH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.71°E (2027)	INH	110.900 MHz	HO	524032.87N 0011554.01E		(RWY 27) ILS, LOC and GP may be tactically withdrawn for routine maintenance.
ILS/GP	INH	330.800 MHz	HO	524038.13N 0011731.26E		3° ILS Ref Datum Hgt 50 FT.
DME	INH	46X 110.900 MHz	HO	524026.99N 0011658.94E	129 FT	(RWY 27) On AD. DME freq paired with ILS I-NH. Zero range indicated at THR of Runway 27 and 09.
NDB (L) 1.72°E (2027)	NWI	342.500 kHz	HO	524039.15N 0011729.41E		On AD. DOC 50 NM.

EGSH AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Booking out details should be passed by telephone: 01603-420641. Calls on RTF may result in delays.
b) All aircraft using Norwich aerodrome or its facilities, are required to have third party liability insurance cover in the sum of at least £1,000,000. Proof of this insurance should be available for inspection at any time whilst the aircraft is at Norwich aerodrome.
c) Extension charges apply after published AD HR.
d) All persons on the manoeuvring and apron areas at Norwich Airport must wear high visibility clothing as it is designed to be worn, at all times.
e) Pilots/Crew wearing high visibility clothing are permitted to escort passengers not wearing the required clothing. Apart from when carrying out aircraft walk round inspections, pilots/crew must keep to designated walkways and pedestrian crossings when on the terminal apron for their own safety. This also applies to passengers under pilot/crew escort. No pedestrian movement is permitted between the terminal and stand 7 parking area. Transport will be provided upon request.
f) Norwich Airport is PPR for all visiting aircraft movements. PPR can be obtained directly from Norwich Airport ATC on 01603-420641 or your Norwich based handling agent. PPR is required a minimum of 60 minutes prior to ETA. Scheduled flights are not affected by this requirement.

2 GROUND MOVEMENT

a) Push-backs: Jet powered aircraft over 45,000 KG AUW on Stands 4, 5 or 6 will be pushed-back and pulled forward as part of the pre-taxi manoeuvre. Due to jet blast safety distances, engine start is not to commence until instructed by the ground crew. This will normally be during the pull forward phase of the procedure.
b) Code D aircraft shall expect to use Taxiway Charlie only.
c) Large aircraft are to use the turning circles at either end as appropriate.
d) The Western Apron is only to be used by resident operators and their authorised visitors. Visiting aircraft shall park under marshaller's instruction. There are 5 helicopter parking stands on the Western Apron. Stands 20 and 21 on the western half at the northern end of the Western Apron for use by the Air Ambulance only, D value maximum of 13.63 M. Stand 22 on the western half in the middle of the Western Apron is a taxi-through helicopter stand. Stands 23 and 24 on the eastern half at the southern end of the Western Apron, D value maximum of 16.66 M.
e) All visiting aircraft to Hangars 2 and 3 via the Eastern Apron should be aware there is a gate with limiting dimensions on exiting the Eastern Apron towards Hangars 2 and 3. Operators should contact the host tenant company for further details and dimensions. The gate is removable provided sufficient notice of an aircraft movement is received by the host Tenant company.
f) Eastern Apron Gate - Aircraft access to non-airside tenant companies. With access gate in situ and fully open the measured clearance distances are:

- 19.75 M with no obstacle between the gates;
- from centre-line to EAST, 9.8 M; first obstacle is gate height 1.2 M;
- from centre-line to WEST, 9.95 M; first obstacle is gate height 1.0 M.

g) Commanders of visiting Code B aircraft to the SaxonAir apron will be marshalled if entry is via E1 and the Code A Echo taxilane.
h) Aircraft when operating on and off aprons and taxiing to/from hold point Papa, shall use MINIMUM thrust/idle power to avoid jet blast risk in the vicinity.
i) All Visiting Aircraft: Engine Start shall only be conducted when a qualified start crew are in attendance. All engine starts must be in compliance with current Norwich Airport Procedures. Note: Aircraft starting on Stand 7 require a Norwich Airport start crew.
j) Low Visibility Operations in force when MET visibility is 1500 M or less. If the IRVR is 400 M or less, entry to the runway will be via A2 and C2 only. For all other departures, a 'Follow-Me' vehicle will be provided.
k) Blue Taxiway edge lights between Holding Point B1 and Runway 09/27 edge unserviceable. Holding Point B1 closed during night and low visibility operations.

3 WARNINGS

a) Flying takes place by light aircraft and microlights from Felthorpe aerodrome (4 NM NW of ARP at *524200N 0011200E) occasionally throughout the year with increased activity during the summer months.
b) At both ends of Runway 09/27 its width is twice that of the associated edge lights due to extra pavement at one side. Aircraft backtracking the runway and conducting a 180 degree turn, shall ensure on completion of the turn, correct alignment with the runway centre-line.
c) During Low Visibility Procedures, one fire engine is positioned west of Hold Bravo 1 and another fire engine is positioned west of Hold Delta 1.
d) The following bird hazards have been identified within 4 KM of the airfield:

   i. Around the aerodrome at dawn and dusk birds are observed transiting the airspace to various feeding/roosting locations.
   ii. 2.5 KM N at St. Faiths, 2.5 KM NE at Spixworth and 4 KM E at Rackheath; these locations are pig farms which attract a variety of birds up to an estimated 1500 FT AGL.
   iii. Perimeter of aerodrome up to 2 KM S, nesting gulls on building roofs presents bird activity during the day, predominantly April – September, and are known to overfly the aerodrome on a north/south track below 500 FT AGL.
   iv. 1.5 KM N at St. Faiths, rooks are known to transit between this rookery and the aerodrome to feed/roost.
   v. 1 KM SW at Hellesdon, racing pigeons flying low level during the day are on occasions observed crossing the runway/flight path.

e) Numerous flocks of birds have been observed crossing the approaches to Runway 09/27 at dawn and dusk within 1.5 NM of touchdown.
f) Helicopter winch training is conducted on the north side of the AD.
g) If a ground taxiing aircraft requires a brake test, this shall take place only on that portion of concrete Taxiway A parallel to Runway 27/09 between Holding Point B1 and A2.
h) Wind Shear and turbulence can occur on final approach to Runway 27 during periods of strong southerly or south westerly winds.
i) Unlit crane 150 M south of the terminal, up to 215 FT AGL.
j) Eastern Apron: 10 floodlight stanchions up to 115 FT AGL.
k) Caution - Helicopter activity takes place outside of AD published hours.
l) Surface wind observations for Runway 09 operations derived from the mid point anemometer.
m) Caution - Bright flood lighting at sports ground 1.5 NM final Runway 27.
n) Care should be exercised when arriving at EGSH from the south, to ensure alignment with the specified runway; Taxiway C is no longer a runway but is now an active taxiway.

4 HELICOPTER OPERATIONS

a) Light helicopters are not required to use the runways but arrivals and departures should be operated in such a way as to avoid overflying of, and to minimise the disturbance to, local residential areas.
b) Air taxiing on the main apron is not permitted except with the approval of ATC and under the guidance of a Marshaller.
c) Departures direct from the SaxonAir Apron and associated stands are prohibited.
d) Daily Helimed Operations take place outside of AD operating hours.

5 USE OF RUNWAYS

a) Variable circuits in operation.
b) Normally no overhead joins are permitted.

6 TRAINING

a) Circuit and Instrument training is only available by prior arrangement with ATC and subject to local traffic and the runway in use. Normal circuit heights are 1000 FT QFE for aircraft up to 5700 KG and 1500 FT QFE for aircraft over 5700 KG.
b) Due to the number of aircraft using the airport for instrument training a booking system is in operation. Training periods can be booked by application to ATC Tel: 01603-420641. The filing of a flight plan does not constitute a booking to carry out instrument training at the airport. Failure to make a booking may result in the aircraft being refused use of the facilities. Pilots unable to make the booked time must inform ATC either to cancel the slot or to re-book.
c) Aircraft wishing to make training approaches (non-landing) are to contact the preferred handling agents, SaxonAir on 01603-510111 to book in. There is no requirement to call ATC.

EGSH AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) Operators of all aircraft using Norwich Aerodrome are to ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in the areas surrounding the aerodrome.
b) Where operationally possible, pilots should endeavour to avoid overflight of the town of Taverham situated 2 miles west of the airport.
c) When taking off, aircraft shall climb as steeply as minimum engine noise settings allow and when approaching to land, without the assistance of ILS, shall follow a descent path which will not result in their being at any time lower than the normal 3° GP.

2 ARRIVALS

a) Pilots of arriving jet aircraft and turbo-prop aircraft and aircraft in excess of 5700 KG should arrange their flights to be established on final approach to a runway not below 1500 FT AAL.

3 DEPARTURES

All aircraft other than IFR helicopters to the Southern North Sea (see below):

a) On departure from any runway, all aircraft are to climb straight ahead to 1000 FT AAL before turning, unless instructed otherwise by ATC.
b) Departure aircraft less than 5700 KG AUW - may be permitted to make a turn to the north of the aerodrome at 500 FT AAL.

EGSH AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Departures overflying the EHAA FIR via the UK North Sea are to flight plan via BODSO - L17 - MOLIX and then appropriate routes for destination.

2 AIR TESTS

a) Any aircraft requiring an air test which will be climbing to FL 190 or higher must have each individual flight approved by London Military. Pre-notification to London Military is required 24 hours prior to the flight taking place and it is the responsibility of the aircraft operator to ensure compliance with this requirement. London Military can be contacted on Tel: 01489-612408. If pre-notification is not completed start clearance may be delayed or withheld. All air tests must have a correctly filed flight plan which clearly and unambiguously states the nature and requirements of the flight and must include London Military as one of the addressees. A GAT Flight Plan into and routing along airways for the sole purpose of a flight test IS NOT acceptable. Norwich ATC can provide further information if required.

3 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

4 SPECIAL VFR FLIGHT

a) Clearance may be requested for Special VFR flight within the Norwich Control Zone and will be given whenever the traffic situation permits.
b) Special VFR clearance may include routing and maximum altitude instructions.
c) Pilots are reminded that they must at all times when operating on Special VFR clearance, remain clear of cloud and in sight of the surface and in flight conditions which will enable them to determine their flight path and keep clear of obstacles. Radar vectoring will not normally be applied to aircraft operating on Special VFR clearance.

5 VFR FLIGHTS

a) VFR flights in the CTR/CTAs may be given routing instructions and/or altitude restrictions in order to integrate VFR flights with other traffic.
b) Pilots should anticipate routing instructions in relation to the Visual Reference Points (VRPs) detailed in paragraph 3.
c) Pilots of VFR flights are reminded of the requirement to remain in VMC at all times and to advise ATC if at any time they are unable to comply with the clearances as issued.

6 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the Norwich controlled airspace within a 20 NM radius of the airport and maintaining a listening watch only on Norwich Radar frequency, 119.355 MHz, are encouraged to select SSR code 7350.
b) Selection of 7350 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Norwich controlled airspace at all times.

c) Whilst squawking 7350, pilots should be aware that Norwich Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 7350 shall be deselected.

EGSH AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGSH AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSH-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGSH-2-2
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGSH-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGSH-5-1
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 09 - ICAO
AD 2.EGSH-8-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 27 - ICAO
AD 2.EGSH-8-2
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 27 - ICAO
AD 2.EGSH-8-3
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 27 - ICAO
AD 2.EGSH-8-4

EGSH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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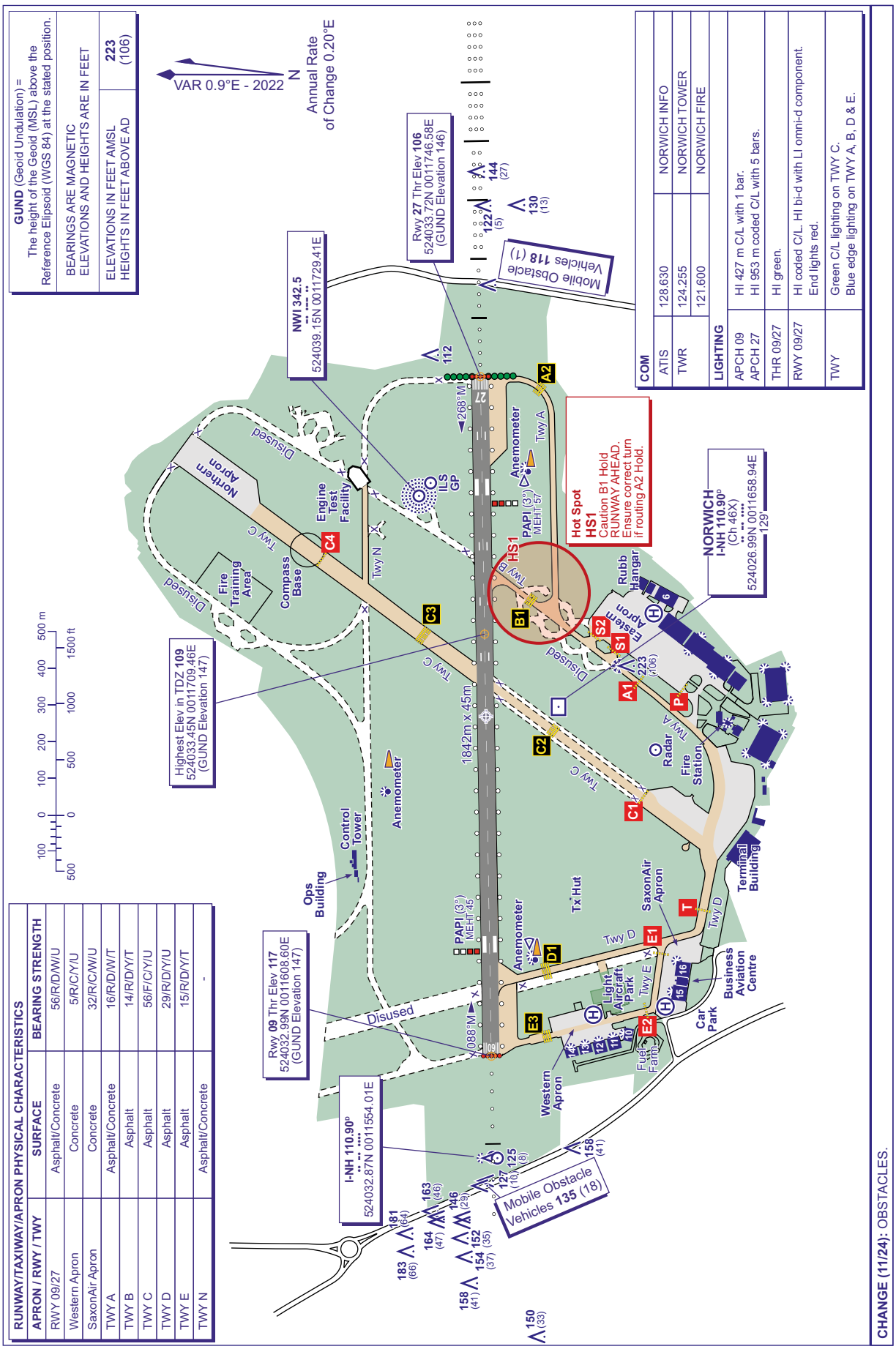
NORWICH EGSH

AERODROME CHART - ICAO

ARP 524033N 0011658E

AD ELEV 117FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 09/27	Asphalt/Concrete	56/R/D/W/U
Western Apron	Concrete	5/R/C/Y/U
SaxonAir Apron	Concrete	32/R/C/W/U
TWY A	Asphalt/Concrete	16/R/D/W/T
TWY B	Asphalt	14/R/D/Y/T
TWY C	Asphalt	56/F/C/Y/U
TWY D	Asphalt	29/R/D/Y/U
TWY E	Asphalt	15/R/D/Y/T
TWY N	Asphalt/Concrete	-

AERO INFO DATE 22 AUG 24

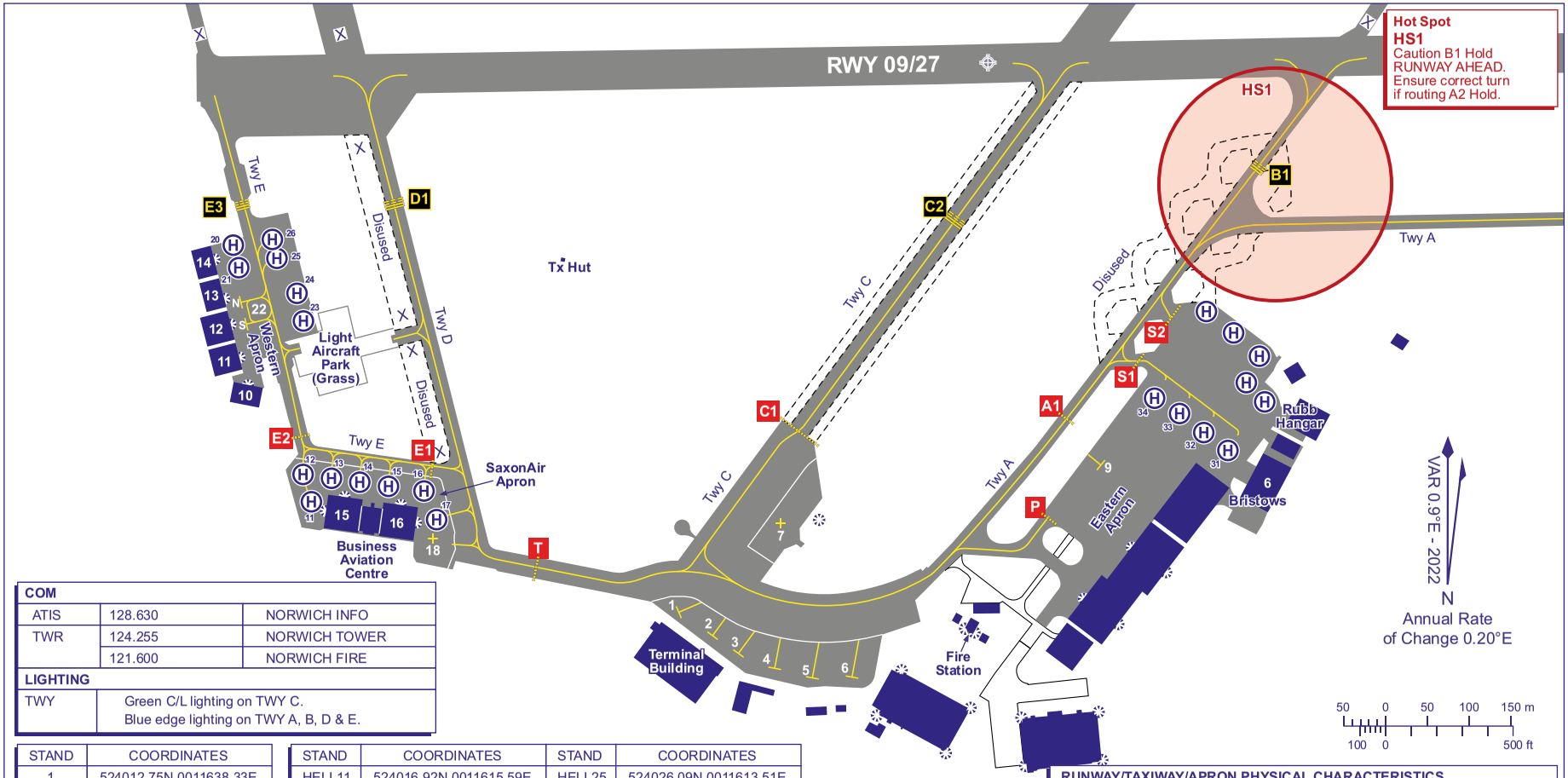
AD 2-EGSH-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 524033N 0011658E

AD ELEV 117FT

NORWICH
EGSH



COM		
ATIS	128.630	NORWICH INFO
TWR	124.255	NORWICH TOWER
	121.600	NORWICH FIRE
LIGHTING		
TWY	Green C/L lighting on TWY C. Blue edge lighting on TWY A, B, D & E.	

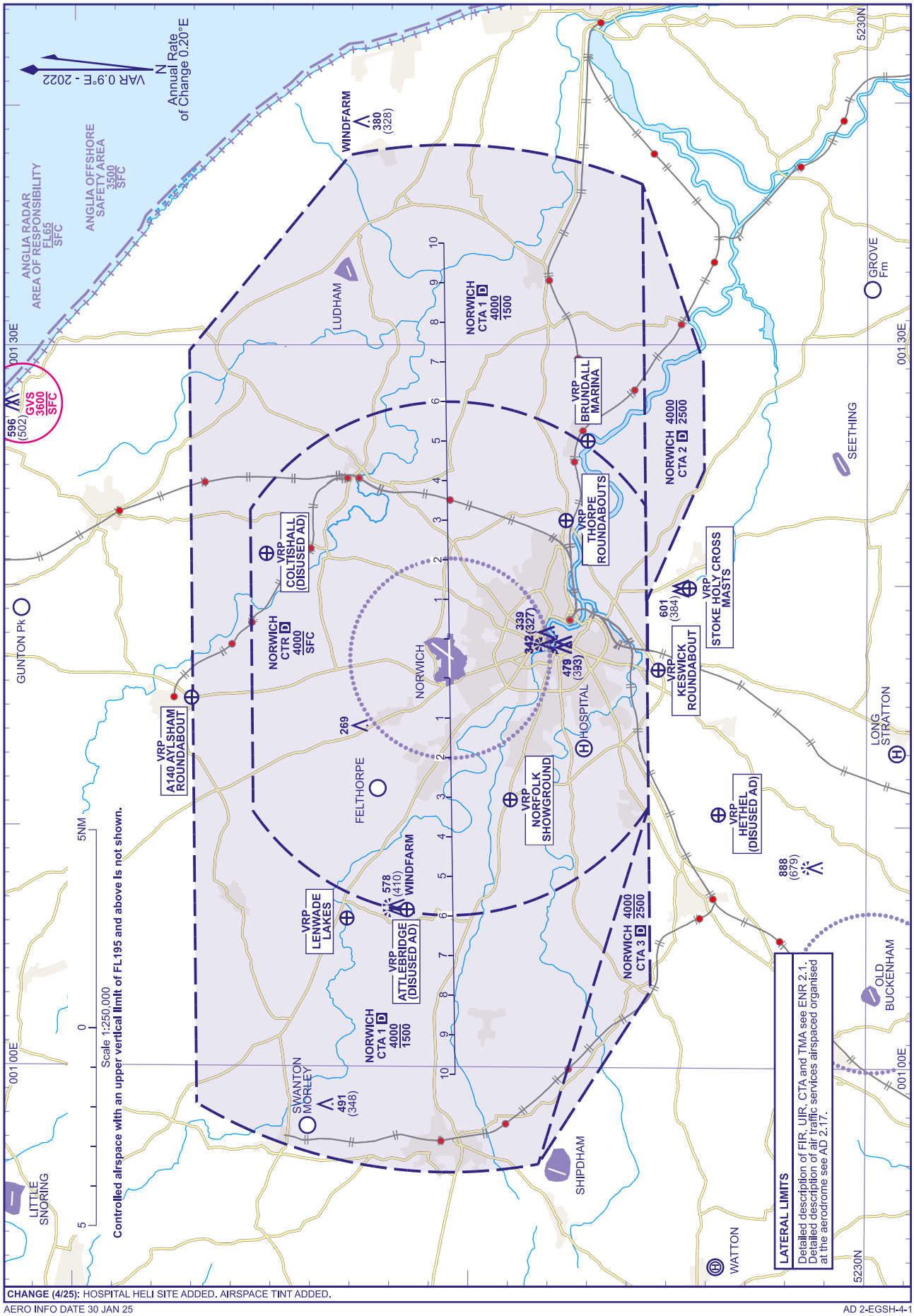
STAND	COORDINATES
1	524012.75N 0011638.33E
2	524011.84N 0011640.38E
3	524011.17N 0011642.00E
4	524010.62N 0011644.26E
5	524010.24N 0011646.55E
6	524010.27N 0011649.01E
7	524016.04N 0011644.67E
9	524018.19N 0011704.48E
18	524015.52N 0011623.08E
22N	524024.43N 0011611.37E
22S	524023.60N 0011611.72E

STAND	COORDINATES	STAND	COORDINATES
HELI 11	524016.92N 0011615.59E	HELI 25	524026.09N 0011613.51E
HELI 12	524017.95N 0011615.08E	HELI 26	524026.79N 0011613.22E
HELI 13	524017.80N 0011616.83E	HELI 31	524018.73N 0011712.36E
HELI 14	524017.65N 0011618.59E	HELI 32	524019.42N 0011710.87E
HELI 15	524017.49N 0011620.37E	HELI 33	524020.12N 0011709.38E
HELI 16	524017.31N 0011622.57E	HELI 34	524020.73N 0011707.83E
HELI 17	524016.23N 0011623.34E		
HELI 20	To be surveyed		
HELI 21	To be surveyed		
HELI 23	524023.73N 0011615.14E		
HELI 24	524024.77N 0011614.70E		

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 09/27	Asphalt/Concrete	56/R/D/W/U
Western Apron	Concrete	5/R/C/Y/U
SaxonAir Apron	Concrete	32/R/C/W/U
TWY A	Asphalt/Concrete	16/R/D/W/T
TWY B	Asphalt	14/R/D/Y/T
TWY C	Asphalt	56/F/C/Y/U
TWY D	Asphalt	29/R/D/Y/U
TWY E	Asphalt	15/R/D/Y/T
TWY N	Asphalt/Concrete	-

CHANGE (7/24): WESTERN APRON. NEW HELI STANDS 25, 26 & 31 TO 34. STAND 6, 18, 22N & 22S COORDS. HELI COORDS.

CONTROL ZONE AND CONTROL AREA CHART — NORWICH



CHANGE (4/25): HOSPITAL HELI SITE ADDED. AIRSPACE TINT ADDED.

AERO INFO DATE 30 JAN 25

AD 2-EGSH-4-1

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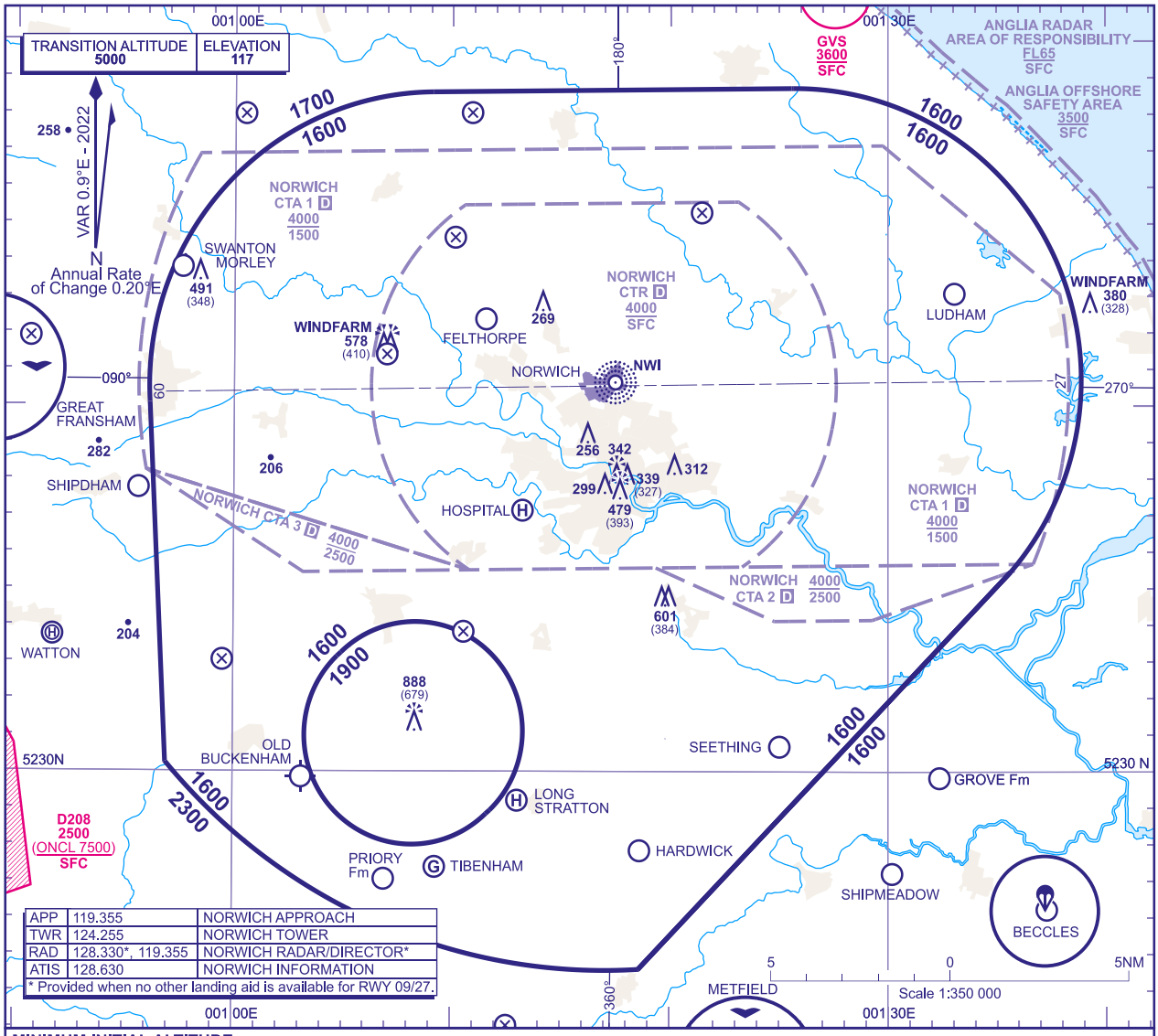
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 888
HEIGHTS IN FEET AGL (679)

NORWICH



APP	119.355	NORWICH APPROACH
TWR	124.255	NORWICH TOWER
RAD	128.330*, 119.355	NORWICH RADAR/DIRECTOR*
ATIS	128.630	NORWICH INFORMATION

* Provided when no other landing aid is available for RWY 09/27.

MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is **1600** in the sector defined by the lateral limits; 524835N 0010905E - 524842N 0012534E thence clockwise by an arc of a circle radius 8NM centred on 524043N 0012542E - 523528N 0013537E - 522436N 0011835E - thence by an arc of a circle radius 16NM centred on 524033N 0011658E - 523015N 0005655E - 524005N 0005609E thence clockwise by an arc of a circle radius 8NM centred on 524035N 0010916E - 524835N 0010905E except, **1900** in the sector defined by the lateral limits; 523309N 0010446E - 523315N 0010457E thence clockwise by an arc of a circle radius 3NM centred on 523106N 0010822E to 522857N 0011147E - 522851N 0011136E thence clockwise by an arc of a circle radius 3NM centred on 523100N 0010811E - 523309N 0010446E.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher, to **NDB(L) NWI**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) NWI**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 24 JAN 25

AD 2-EGSH-5-1

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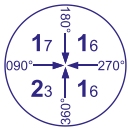
INSTRUMENT APPROACH CHART - ICAO

NORWICH NDB(L)/DME RWY 09

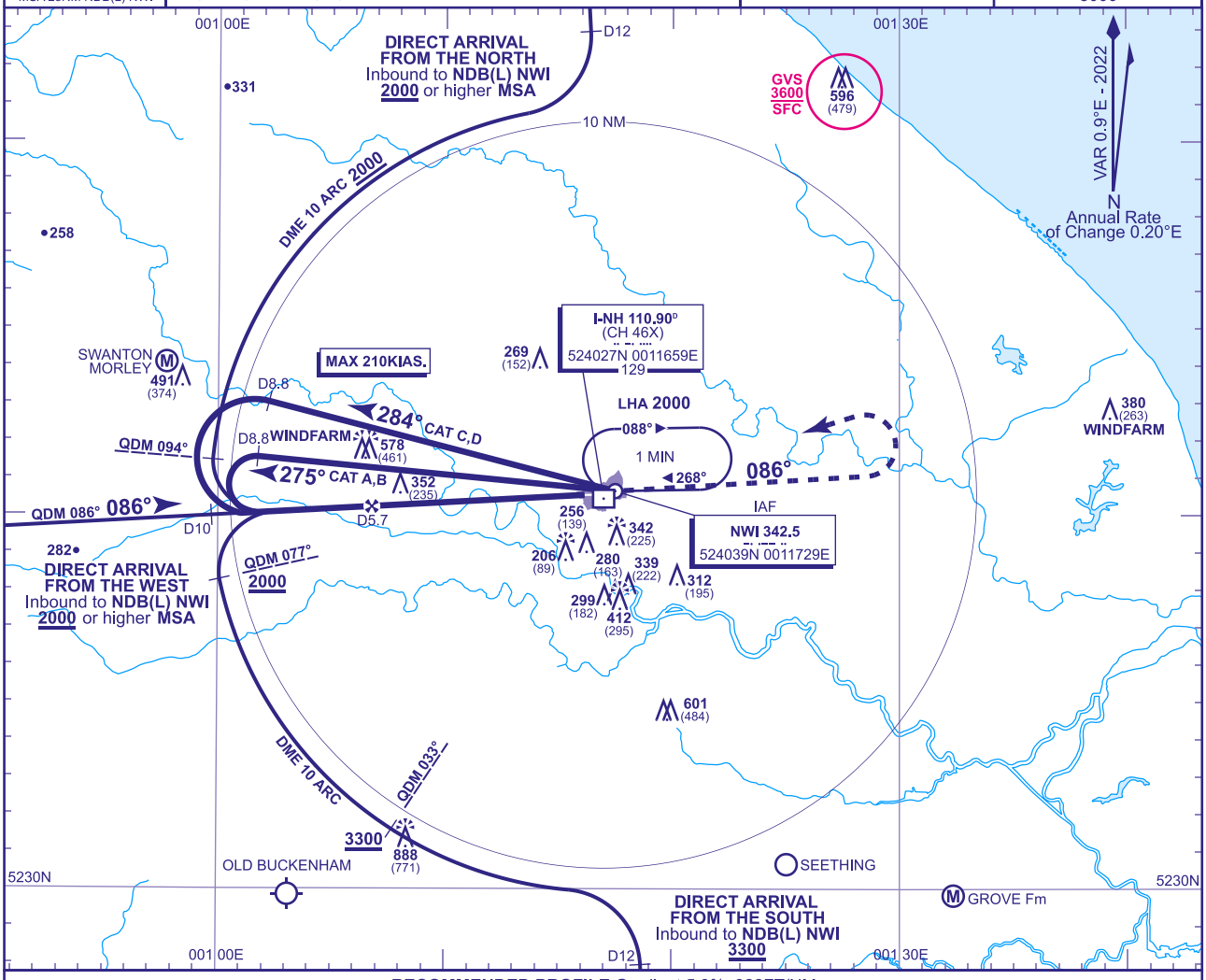
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NWI

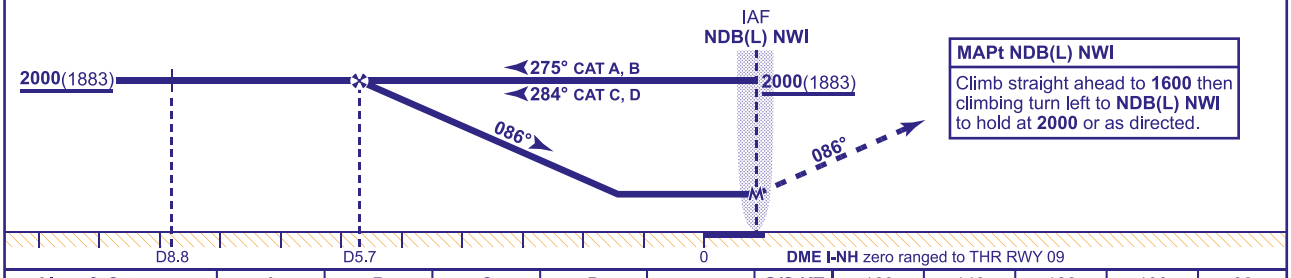
APP 119.355	NORWICH APPROACH	AD ELEVATION	117
TWR 124.255	NORWICH TOWER	THR ELEVATION	117
RAD 119.355, 128.330*	NORWICH RADAR	OBSTACLE ELEVATION	888 AMSL (771) (ABOVE THR)
ATIS 128.630	NORWICH INFORMATION		
*NORWICH DIRECTOR		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 5000



RECOMMENDED PROFILE Gradient 5.3%, 322FT/NM

DME I-NH	5	4	3	2
ALT(HGT)	**1770**(1653)	**1450**(1333)	**1130**(1013)	**810**(693)



MAPt NDB(L) NWI

Climb straight ahead to **1600** then climbing turn left to **NDB(L) NWI** to hold at **2000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**560**(443)	**560**(443)	**560**(443)	**560**(443)
	NO DME	**870**(753)	**870**(753)	**870**(753)	**870**(753)
VM(C)OCA (OCH AAL)	Total Area	**610**(493)	**640**(523)	**810**(693)	**810**(693)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	860	750	640	540	430

AIRCRAFT UNABLE TO RECEIVE DME I-NH As for main procedures with DME, except fly outbound on QDR for 4 MIN (CAT A,B); 2.5 MIN (CAT C,D) prior to base turn. When established on FAT descend to MDH.

NOTE
1. All inbound aircraft should contact Norwich at least 10 MIN before ETA.
2. FAT offset 3° south from RWY 09 C/L and crosses RWY C/L 1.1NM before THR.
3. ATC will normally require aircraft to hold not lower than **3000** or equivalent FL.
4. Direct arrivals are subject to ATC approval and not available without DME I-NH.

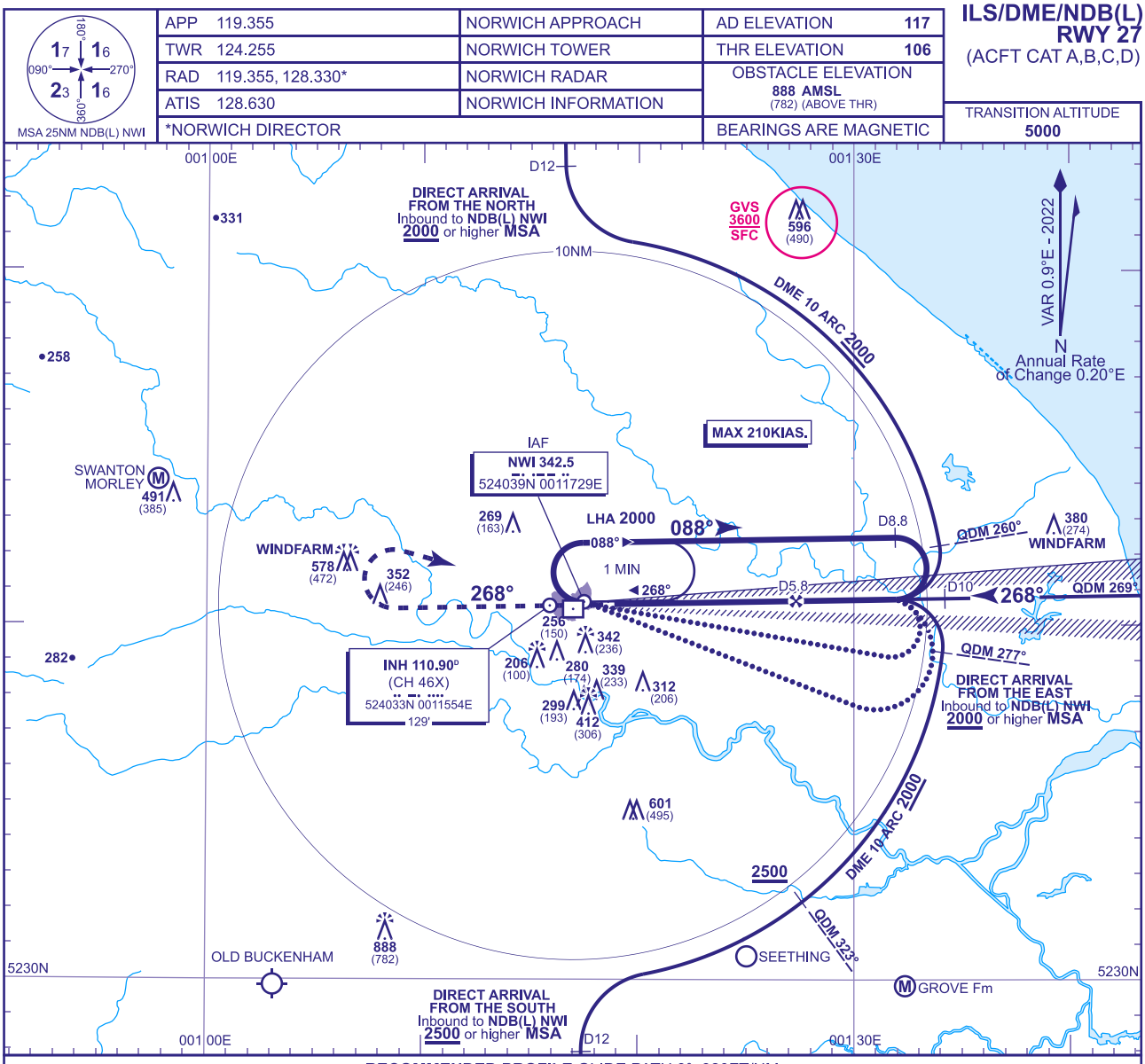
CHANGE (12/23): DME I-NH ELEVATION.

AERO INFO DATE 26 SEP 23

AD 2-EGSH-8-1

INSTRUMENT APPROACH CHART - ICAO

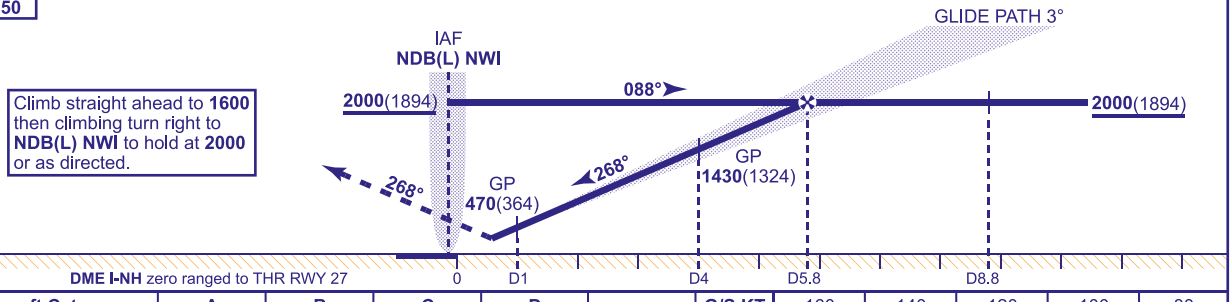
NORWICH ILS/DME/NDB(L) RWY 27
(ACFT CAT A,B,C,D)



RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-NH	5	4	3	2	1
ALT(HGT)	**1750**(1644)	**1430**(1324)	**1110**(1004)	**790**(684)	**470**(364)

RDH 50



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**242**(136)	**251**(145)	**263**(157)	**276**(170)
VM(C)OCA (OCH AAL)	Total Area	**610**(493)	**640**(523)	**810**(693)	**810**(693)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
Overhead NDB(L) NWI fly outbound on QDR 100° (CAT A,B); QDR 110° (CAT C,D) maintaining **2000**(1894). At I-NH DME 8.8 turn left to intercept LOC. When established, proceed as for main procedure.

NOTE **1** All inbound aircraft should contact Norwich at least 10 MIN before ETA.
2 ATC will normally require aircraft to hold not lower than **3000** or equivalent FL.
3 Direct arrivals are subject to ATC approval and not available without DME I-NH.

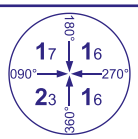
CHANGE (12/23): DME I-NH ELEVATION.

AERO INFO DATE 26 SEP 23 AD 2-EGSH-8-2

INSTRUMENT APPROACH CHART - ICAO

NORWICH LOC/DME/NDB(L) RWY 27

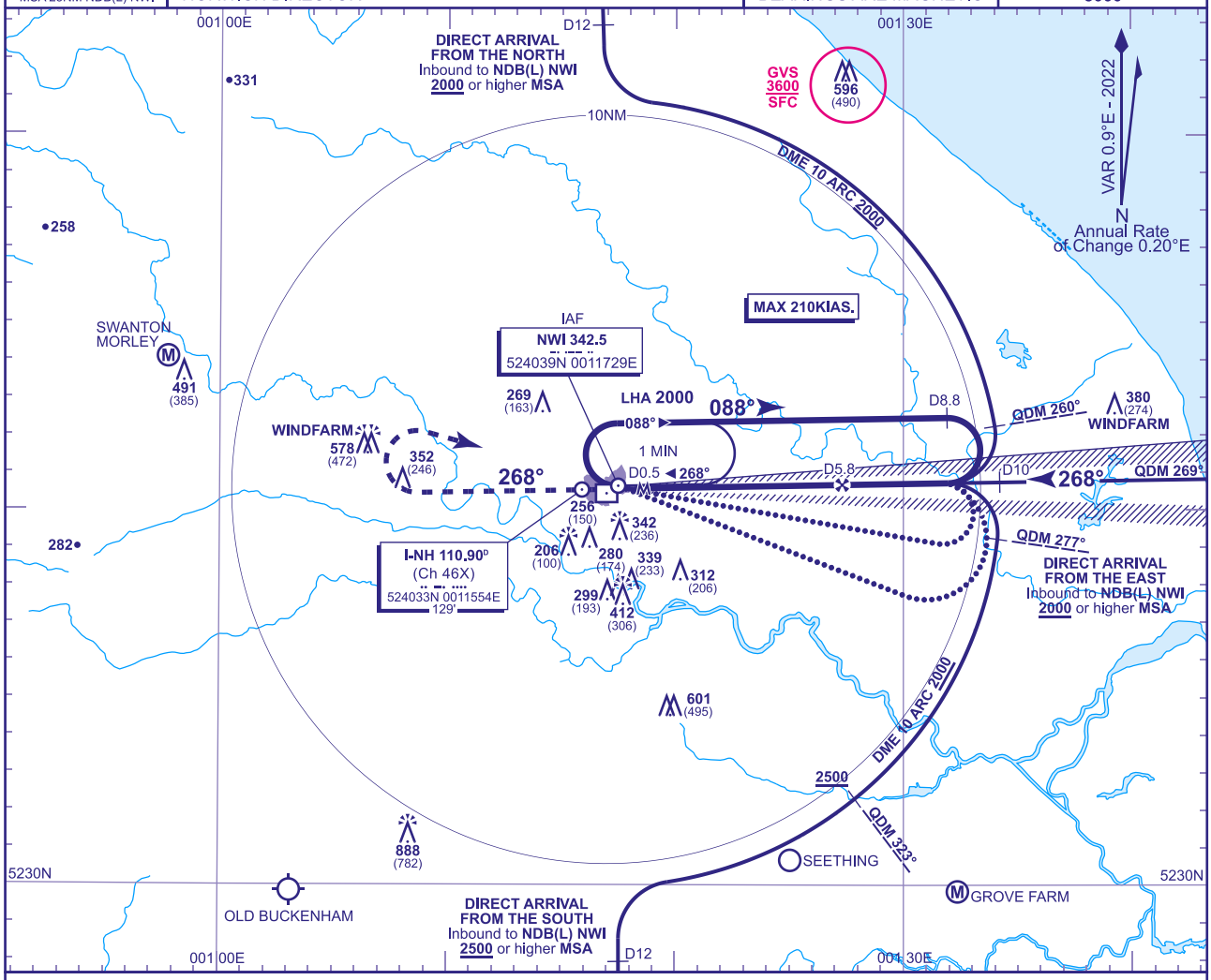
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NWI

APP 119.355	NORWICH APPROACH	AD ELEVATION	117
TWR 124.255	NORWICH TOWER	THR ELEVATION	106
RAD 119.355, 128.330*	NORWICH RADAR	OBSTACLE ELEVATION	
ATIS 128.630	NORWICH INFORMATION	888 AMSL (782) (ABOVE THR)	
*NORWICH DIRECTOR		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **5000**

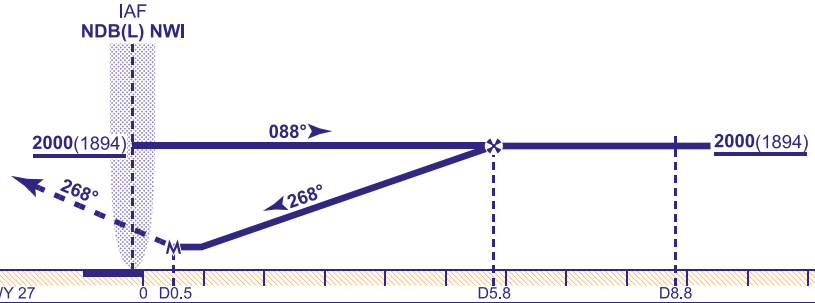


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-NH	5	4	3	2	1
ALT(HGT)	**1750**(1644)	**1430**(1324)	**1110**(1004)	**790**(684)	**470**(364)

MAPt I-NH DME 0.5

Climb straight ahead to **1600** then climbing turn right to **NDB(L) NWI** to hold at **2000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**460**(354)	**460**(354)	**460**(354)	**460**(354)
VM(C)OCA (OCH AAL)	Total Area	**610**(493)	**640**(523)	**810**(693)	**810**(693)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
Overhead NDB(L) NWI fly outbound on QDR 100° (CAT A,B); QDR 110° (CAT C,D) maintaining **2000**(1894). At I-NH DME 8.8 turn left to establish on FAT. When established, proceed as for main procedure.

NOTE **1** All inbound aircraft should contact Norwich at least 10 MIN before ETA.
2 ATC will normally require aircraft to hold not lower than **3000** or equivalent FL.
3 Direct arrivals are subject to ATC approval and not available without DME I-NH.

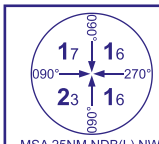
CHANGE (12/23): DME ELEVATION.

AERO INFO DATE 25 SEP 23

AD 2-EGSH-8-3

INSTRUMENT APPROACH CHART - ICAO

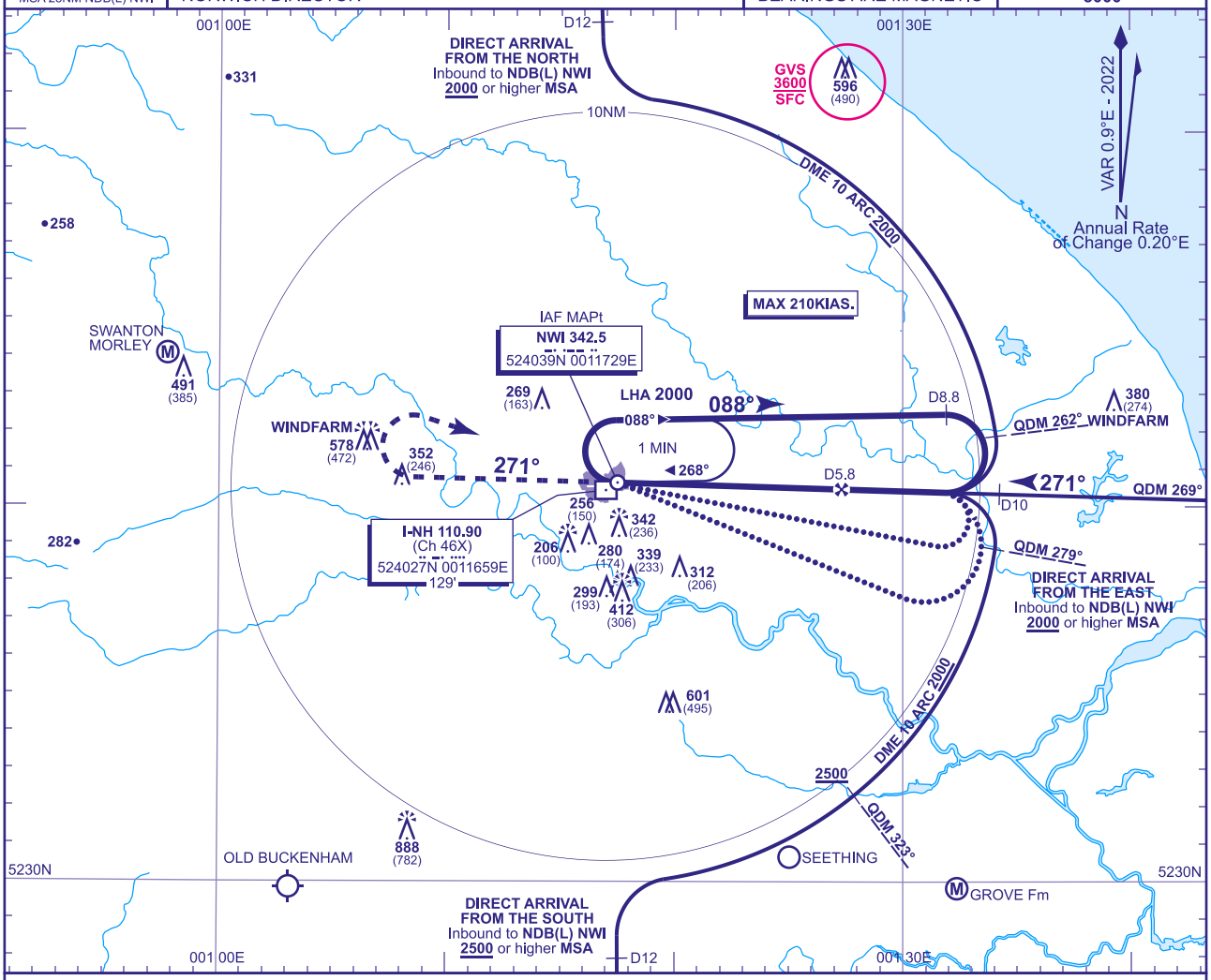
NORWICH NDB(L)/DME RWY 27
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) NWI

APP 119.355	NORWICH APPROACH	AD ELEVATION	117
TWR 124.255	NORWICH TOWER	THR ELEVATION	106
RAD 119.355, 128.330*	NORWICH RADAR	OBSTACLE ELEVATION	
ATIS 128.630	NORWICH INFORMATION	888 AMSL (782) (ABOVE THR)	
*NORWICH DIRECTOR		BEARINGS ARE MAGNETIC	

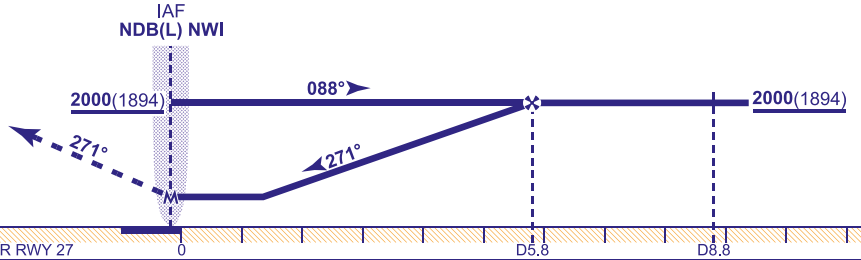
TRANSITION ALTITUDE **5000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-NH	5	4	3	2
ALT(HGT)	**1750**(1644)	**1430**(1324)	**1110**(1004)	**790**(684)

MAPt NDB(L) NWI
Climb straight ahead to **1600** then climbing turn right to **NDB(L) NWI** to hold at **2000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**540**(434)	**540**(434)	**540**(434)	**540**(434)
	NO DME	**650**(544)	**650**(544)	**650**(544)	**650**(544)
VM(C)OCA (OCH AAL)	Total Area	**610**(493)	**640**(523)	**810**(693)	**810**(693)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME As for main procedure with DME, except fly outbound on 088° for 3.5 MIN (CAT A,B); 2.5 MIN (CAT C,D) prior to turn inbound. When established on FAT descend to MDH.

ALTERNATIVE PROCEDURE Overhead NDB(L) NWI fly outbound on QDR 101° (CAT A,B); QDR 111° (CAT C,D) maintaining **2000**(1894). At I-NH DME 8.8 turn left to establish on FAT. When established, proceed as for main procedure.

NOTE
1 All inbound aircraft should contact Norwich at least 10 MIN before ETA.
2 FAT offset 2° south from RWY 27 C/L and crosses RWY C/L 2.2NM before THR.
3 ATC will normally require aircraft to hold not lower than **3000** or equivalent FL.
4 Direct arrivals are subject to ATC approval and not available without DME I-NH.

CHANGE (12/23): DME ELEVATION.

AERO INFO DATE 25 SEP 23 AD 2-EGSH-8-4

EGBN — NOTTINGHAM

EGBN AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBN — NOTTINGHAM

EGBN AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 525512N Long: 0010445W
2	Direction and distance from city	3 NM SE of Nottingham.
3	Elevation / Reference temperature / Mean Low Temperature	138 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.91°E (2027) / 0.18°E
6	AD Administration Address Telephone Telefax E-mail address	TRUMAN AVIATION LTD Nottingham Airport, Tollerton, Notts, NG12 4GA. 0115-9815050 0115-9811444 info@trumanaviation.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGBN AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 0900-1700 (0800-1700); Sun 1000-1700 (0900-1700).
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	By telephone or internet.
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	Winter: Mon-Fri 0930-1630; Sat 0930-1600; Sun 1030-1600. Summer: Mon-Fri 0830-1600; Sat 0830-1700; Sun 0930-1600.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. For aircraft movements requiring a licenced aerodrome, last take-off and landing is 15 minutes before published closing time. For aircraft movements requiring an unlicenced aerodrome, last landing 15 minutes before and last take off 5 minutes before published closing time. Refuelling may continue up to 30 min prior to closing pending manpower availability.

EGBN AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL. AD80, S80, 15W50
3	Fuelling facilities/capacity	AVTUR Jet A-1 up to 13638 lt. AVGAS 100LL up to 27276 lt.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Yes pending availability
6	Repair facilities for visiting aircraft	
7	Remarks	

EGBN AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	Cafe (Open Mon-Sat 0900-1630 (0800-1530); Sun 1000-1630 (0900-1530)).
3	Transportation	Taxis, Buses, Chauffeur Services on request.
4	Medical facilities	Limited first aid.
5	Bank and Post Office	Local Facilities in vicinity of Aerodrome or in town.
6	Tourist Office	
7	Remarks	

EGBN AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 Category 2 accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGBN AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGBN AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	
2	Taxiway width, surface and strength	Taxiway M: Surface: Asphalt Taxiway S: Surface: Asphalt Taxiway W: Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGBN AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI 525521.8N 0010441.0W (LGTD).

EGBN AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
09/APPROACH 27/TAKE-OFF	Telegraph Pole	525515.46N 0010524.42W	161 FT		No	
09/APPROACH 27/TAKE-OFF	Tree	525515.39N 0010524.74W	161 FT		No	
09/APPROACH 27/TAKE-OFF	Tree	525514.72N 0010523.97W	160 FT		No	
09/APPROACH 27/TAKE-OFF	Tree	525512.42N 0010520.54W	157 FT		No	
09/APPROACH 27/TAKE-OFF	Tree	525511.97N 0010520.30W	156 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGBN AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	
2	Hours of service MET Office outside hour	
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing facilities.
6	Flight documentation Language(s) used	English
7	Charts and other information available for briefing or consultation	Available in flight school.
8	Supplementary equipment available for providing information	Internet.
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGBN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
03	028.70°	821 x 23 M	RWY surface: Asphalt	525459.00N 0010446.00W	THR 114.0 FT	
21	208.70°	821 x 23 M	RWY surface: Asphalt	525523.00N 0010425.00W	THR 95.0 FT	
09	088.10°	1050 x 30 M	RWY surface: Concrete and asphalt	525514.00N 0010507.00W	THR 127.0 FT	
27	268.10°	1050 x 30 M	RWY surface: Concrete and asphalt	525515.00N 0010424.00W	THR 90.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 03
						RWY 21
						RWY 09 Threshold displaced by 152 M.
						RWY 27 Threshold displaced by 60 M.

EGBN AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	989 M	1091 M	989 M	837 M	
27	970 M	1070 M	970 M	929 M	
03	799 M	799 M	799 M	821 M	
21	799 M	799 M	799 M	821 M	

EGBN AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09		LI Green/Red wingbars	APAPI /3.5°			Light intensity low			
27		LI Green/Red wingbars	APAPI /3.5°			Light intensity low			

EGBN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: Flashing Green 'NT'
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	CL: Green reflectors on taxiway centre-line.
4	Secondary power supply/switch-over time	
5	Remarks	

EGBN AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Center Grass Triangle used for Rotary training. An area approx 100 M x 50 M cut short.

EGBN AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
NOTTINGHAM ATZ A circle, 2 NM radius, centred at 525515N 0010448W on longest notified runway (09/ 27)	Upper limit: 2000 FT AGL Lower limit: SFC	G	NOTTINGHAM RADIO English			The aerodrome is situated on the edge of the East Midlands CTA. Aircraft are to contact 'East Midlands Radar' for transit directions.

EGBN AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	NOTTINGHAM RADIO	134.880 A/G frequency			Mon-Sat 0900-1700 (0800-1700); Sun 1000-1700 (0900-1700).	ATZ hours coincident with A/G hours.

EGBN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGBN AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aircrew are to wear hi-visibility clothing whilst on aircraft manoeuvring areas.
b) Public Transport or Instructional flights exceeding 2730 KG are not accepted at this aerodrome.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Power cables outside the southern and eastern boundary of ATZ, max elevation 445 FT AMSL. Power cables running northeast/ southwest inside northeast sector of ATZ, max elevation 328 FT AMSL.
b) Model flying club situated approximately 1.9 NM northwest of AD at Nottingham Racecourse. Operating not above 400 FT AGL between 0930-2100 (0830-2000) all week.
c) A fast-jet aircraft operates from the aerodrome.
d) Permanently based cranes are situated in Nottingham City, with heights up to 400 FT.

5 HELICOPTER OPERATIONS

a) Helicopters are to park to the north of the tower on the designated helicopter parking pads, the first pad is marked with an 'H'.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) Helicopter Training permitted in grass centre triangle.

EGBN AD 2.21 NOISE ABATEMENT PROCEDURES

a) For noise abatement, join overhead or dead-side only.
b) For noise abatement, a 10 degree right turn after departure from Runway 21 is required to avoid Tollerton Hall and its surrounding properties. The rest of the 21 circuit remains the same.

EGBN AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit height: 800 FT QFE. (Fixed-wing do not descend below 800 FT. Maintain 200 FT separation from airport based rotary traffic).
b) Helicopter circuit height: 600 FT QFE.

EGBN AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBN AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBN-2-1

EGBN AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

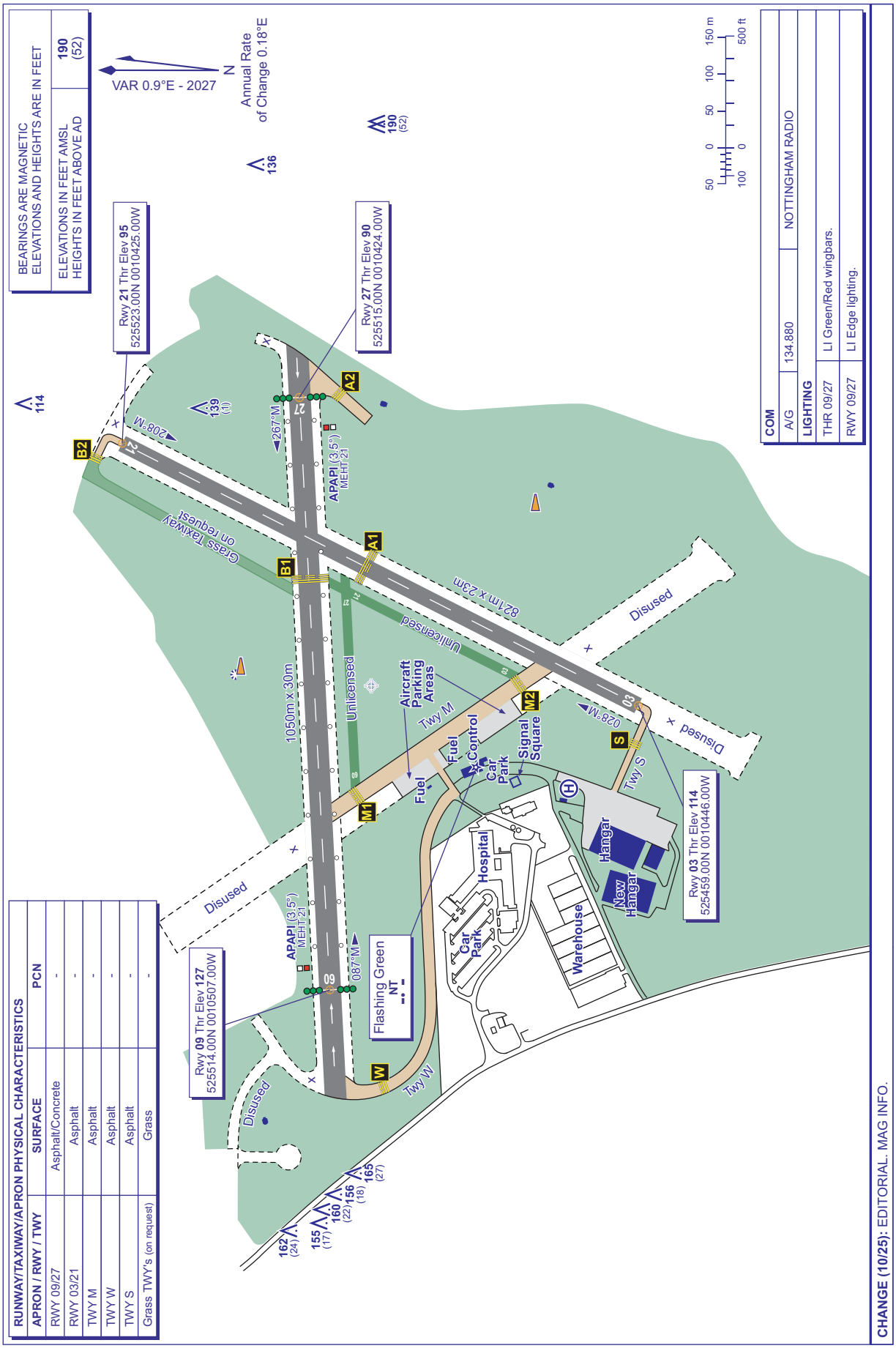
Not applicable

NOTTINGHAM EGBN

AERODROME CHART - ICAO

AD ELEV 138FT

ARP 525512N 0010445W



AERO INFO DATE 22 JUL 25

AD 2-EGBN-2-1

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EGEO — OBAN

EGEO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEO — OBAN

EGEO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 562749N Long: 0052400W Mid point Runway 01/19.
2	Direction and distance from city	5 NM NE of Oban.
3	Elevation / Reference temperature / Mean Low Temperature	24 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	180 FT
5	Magnetic Variation / Annual Change	1.12°W (2027) / 0.21°E
6	AD Administration Address Telephone E-mail address Web address	ARGYLL AND BUTE COUNCIL. Oban Airport, North Connel, Oban, Argyll, PA37 1SW. 01631-572910 (General Enquiries/PPR) obanairport@argyll-bute.gov.uk www.obanandtheislesairports.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Prior Permission Required. Telephone calls to Oban will be recorded.

EGEO AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon 0900-1600 (0800-1515) or SS if required; Tue 0900-1600 (0800-1515) or SS if required; Wed 0830-1600 (0715-1615) or SS if required; Thu 0815-1615 (0715-1615) or SS if required; Fri 1015-1600 (0720-1645) or SS if required; Sat 0800-1445 (0745-1615) and by arrangement with the Aerodrome Operator (Argyll and Bute Council); Sun 1015-1600 (0900-1645) or SS if required.
2	Customs and immigration	By arrangement. 24 hours notice required.
3	Health and sanitation	
4	AIS Briefing Office	Internet access during operational hours.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	Internet access during operational hours.
7	ATS	See AD 2.18.
8	Fuelling	Self-fuel and by arrangement with Oban Airport.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGEO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL. By arrangement with Oban Airport.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGEO AD 2.5 PASSENGER FACILITIES

1	Hotels	In the vicinity.

2	Restaurants	Cafes and restaurants in vicinity.
3	Transportation	Taxis, buses with car hire by prior arrangement.
4	Medical facilities	First aid facilities.
5	Bank and Post Office	Most major banks and Po st Office in Oban. Most major banks and Post Office in Oban.
6	Tourist Office	Area Tourist Office in Oban. Tel: 01631-563122
7	Remarks	

EGEO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category A3 available under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited.
4	Remarks	

EGEO AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical.
2	Clearance priorities	No Formal Snow Clearing Plan exists at the aerodrome however attempts will be made to make all surfaces available for the movement of Aircraft with the limited resources available.
3	Remarks	Latest information on 01631-572910.

EGEO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	HELIPAD Surface: Asphalt PCN 11 LIGHT AIRCRAFT APRON Surface: Asphalt PCN 10 MAIN APRON Surface: Block Pavers. PCN 11
2	Taxiway width, surface and strength	Taxiway A: 15 M Surface: Asphalt PCN 11 Taxiway B: 15 M Surface: Asphalt PCN 11 Taxiway C: 15 M Surface: Asphalt PCN 11 Taxiway E: 10.5 M Surface: Concrete and asphalt PCN 10 Taxiway F: 10.5 M Surface: Concrete and asphalt PCN 10 Taxiway G: 15 M PCN 10. Surface: Bitumen/Sand.
3	Altimeter checkpoint location and elevation	Hold B and C 25 FT H1/H2 25 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGEO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Self parking. Marshaller on request.
2	Runway and taxiway markings and lighting	Taxiway marking aid(s): Yellow centre-line markings. Taxiway light(s): Blue edge lights on Taxiway C and main apron. Runway Guard lights Hold C.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Runway: Centre-line, edge, threshold markings. Runway edge lights, threshold lights, end lights and stopway lights. LGTD WDI: 562744.04N 0052406.18W - 562730.50N 0052412.04W.

EGEO AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEO4573) 19/APPROACH 01/ TAKE-OFF	TERRAIN	562913.14N 0052349.02W	647 FT		No	
(EGEO4578) 19/APPROACH 01/ TAKE-OFF	TREE	562911.29N 0052357.65W	538 FT		No	
(EGEO4517) 19/APPROACH 01/ TAKE-OFF	TREE	562910.08N 0052358.68W	514 FT		No	
(EGEO5968) 19/APPROACH 01/ TAKE-OFF	TREE	562906.73N 0052336.65W	744 FT		No	
(EGEO1141) 19/APPROACH 01/ TAKE-OFF	HILL	562853.46N 0052352.18W	307 FT		No	
(EGEO5932) 01/APPROACH 19/ TAKE-OFF	TREE	562659.21N 0052405.46W	180 FT		No	
(EGEO4156) 01/APPROACH 19/ TAKE-OFF	TREE	562658.86N 0052405.92W	173 FT		No	
(EGEO2408) 01/APPROACH 19/ TAKE-OFF	TERRAIN	562649.08N 0052403.51W	219 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEO1052)	HILL	562908.55N 0052312.02W	767 FT		No	
(EGEO5237)	TERRAIN	562907.48N 0052327.04W	724 FT		No	
(EGEO5241)	TERRAIN	562906.47N 0052258.68W	936 FT		No	
(EGEO1051)	HILL	562904.75N 0052310.17W	779 FT		No	
(EGEO5232)	TREE	562904.66N 0052339.16W	711 FT		No	
(EGEO3104)	TERRAIN	562904.17N 0052253.31W	999 FT		No	
(EGEO3108)	TERRAIN	562900.44N 0052312.64W	738 FT		No	
(EGEO5966)	TREE	562859.28N 0052346.96W	612 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEO3105)	TERRAIN	562858.33N 0052246.09W	924 FT		No	
(EGEO3106)	TERRAIN	562855.48N 0052234.06W	903 FT		No	
(EGEO2406)	TERRAIN	562649.73N 0052359.12W	257 FT		No	
(EGEO5036)	WINDTURBINE	562533.08N 0052515.92W	544 FT		Yes Red	
(EGEO4774)	WINDTURBINE	562529.38N 0052506.53W	504 FT		Yes Red	

EGEO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 Hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	215 Low Level SIG WX. 214 Spot Winds.
8	Supplementary equipment available for providing information	Internet access to MET Office.
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGEO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
01	005.58°	1264 x 30 M	RWY surface: Asphalt PCN 11/F/C/Y/T SWY surface: Asphalt PCN 11/F/C/Y/T	562732.99N 0052402.41W 179.9 FT	THR 22.7 FT	
19	185.58°	1264 x 30 M	RWY surface: Asphalt PCN 11/F/C/Y/T SWY surface: Asphalt PCN 11/F/C/Y/T	562803.30N 0052357.06W 179.9 FT	THR 23.3 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
135 x 30 M		- x 80 M				RWY 01 Runway 01 threshold displaced by 122 M.
51 x 30 M		- x 80 M				RWY 19 Runway 19 threshold displaced by 200 M.

EGEO AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
01	1064 M	1064 M	1199 M	1110 M	
19	1142 M	1142 M	1193 M	993 M	

EGEO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
01		Green wingbars	PAPI Left/4.5° 29 FT 115 M			Bi-directional with LI omni-directional component 1263 M 60 M spacing White Light intensity high	Red		
19	One crossbar. 540 M Light intensity high	Green wingbars				Bi-directional with LI omni-directional component 1263 M 60 M spacing White Light intensity high	Red		

EGEO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 562740.04N 0052407.55W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Standby generator/15 seconds.
5	Remarks	

EGEO AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF H1: 562752.53N 0052354.43W, 179.9 FT TLOF H2: 562751.01N 0052354.67W, 179.9 FT TLOF H3: 562735.45N 0052416.37W, 179.9 FT TLOF H4: 562737.25N 0052414.74W, 179.9 FT
2	TLOF and/or FATO elevation	TLOF H1: 24.9 FT TLOF H2: 25.0 FT TLOF H3: 17.2 FT TLOF H4: 17.7 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	

7	RMK	

EGEO AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
OBAN ATZ A circle, 2 NM radius, centred at 562749N 0052400W on longest notified runway (01/19)	Upper limit: 2000 FT AGL Lower limit: SFC	G	OBAN INFORMATION English	3000 FT		

EGEO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	OBAN INFORMATION	118.055 DOC 10 NM/3000 FT.			Mon 0900-1600 (0800-1515) or SS if required; Tue 0900-1600 (0800-1515) or SS if required; Wed 0830-1600 (0715-1615) or SS if required; Thu 0815-1615 (0715-1615) or SS if required; Fri 1015-1600 (0720-1645) or SS if required; Sat 0800-1445 (0745-1615) or SS if required; Sun 1015-1600 (0900-1645) or SS if required; and by arrangement with the Aerodrome Operator (Argyll and Bute Council).	ATZ hours co-incident with AFIS hours.

EGEO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	OBA	42Y 110.550 MHz	HO	562739.42N 0052407.73W	36 FT	On AD. DOC 18 NM/5000 FT. Normally radiates H24.
NDB 1.12°W (2027)	OBN	404.000 kHz	HO	562738.47N 0052407.92W		On AD. Normally radiates H24.

EGEO AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Non radio aircraft must obtain PPR via telephone with ATS prior to flight.
b) Pilots are to contact Oban Information to request start-up clearance.
c) Except whilst in a vehicle or aircraft, high visibility clothing must be worn airside at all times.
d) All Crew/Passengers walking from H1 and H2 are required to use the designated walkway to/from the terminal.
e) Aircraft that do not require the use of a licensed aerodrome and that wish to operate outside the notified hours of operation, must comply with the Argyll and Bute Council Out of Hours Indemnity Scheme. PPR applies to ALL out of hours flights and must be obtained within operating hours, from the aerodrome operator (Argyll and Bute Council, c/o Oban Airport) prior to flight. Details of the scheme and an application form can be found at: http://www.obanandtheislesairports.com. Pilot information can be obtained from Oban aerodrome, Tel: 01631-572910.

2 GROUND MOVEMENT

a) Marshalling service available on request.
b) Aircrew are advised to use minimum suitable power whilst manoeuvring on the Main Apron, as the front of the terminal building and personnel can be subject to jet blast and prop wash.
c) Fuelling only in designated areas.
d) Follow directional arrows into fuel station parking (yellow hatched area) and only one aircraft at a time.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) No ground signals except light signals.
b) Out of hours helicopter activity by Air Ambulance, Police and Coastguard.
c) Grassed areas are only suitable for use by 'tail wheel' aircraft.
d) During easterly winds, aircraft may encounter wind shear and turbulence on departure and finals.

5 HELICOPTER OPERATIONS

a) All helicopters are expected to make approaches from, and depart to, the west to minimise environmental impact on airport neighbours, unless weather conditions dictate otherwise.
b) Rotors running refuel is only available by prior agreement.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

a) The use of the airport for training purposes is subject to prior arrangement with Airport Administration, Tel. 01631-572910.

EGEO AD 2.21 NOISE ABATEMENT PROCEDURES

a) Helicopters must avoid overflying the caravan site to the North of the airport.

EGEO AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Runway 01 - left hand circuit only. Runway 19 - right hand circuit only.

EGEO AD 2.23 ADDITIONAL INFORMATION

a) Any proposed new schedule service using Oban Airport shall be subject to prior visit by the pilot in command in order to gain familiarisation with the terrain in the immediate vicinity.

EGEO AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEO-2-1

EGEO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 562749N 0052400W

AD ELEV 24FT

OBAN
EGEO

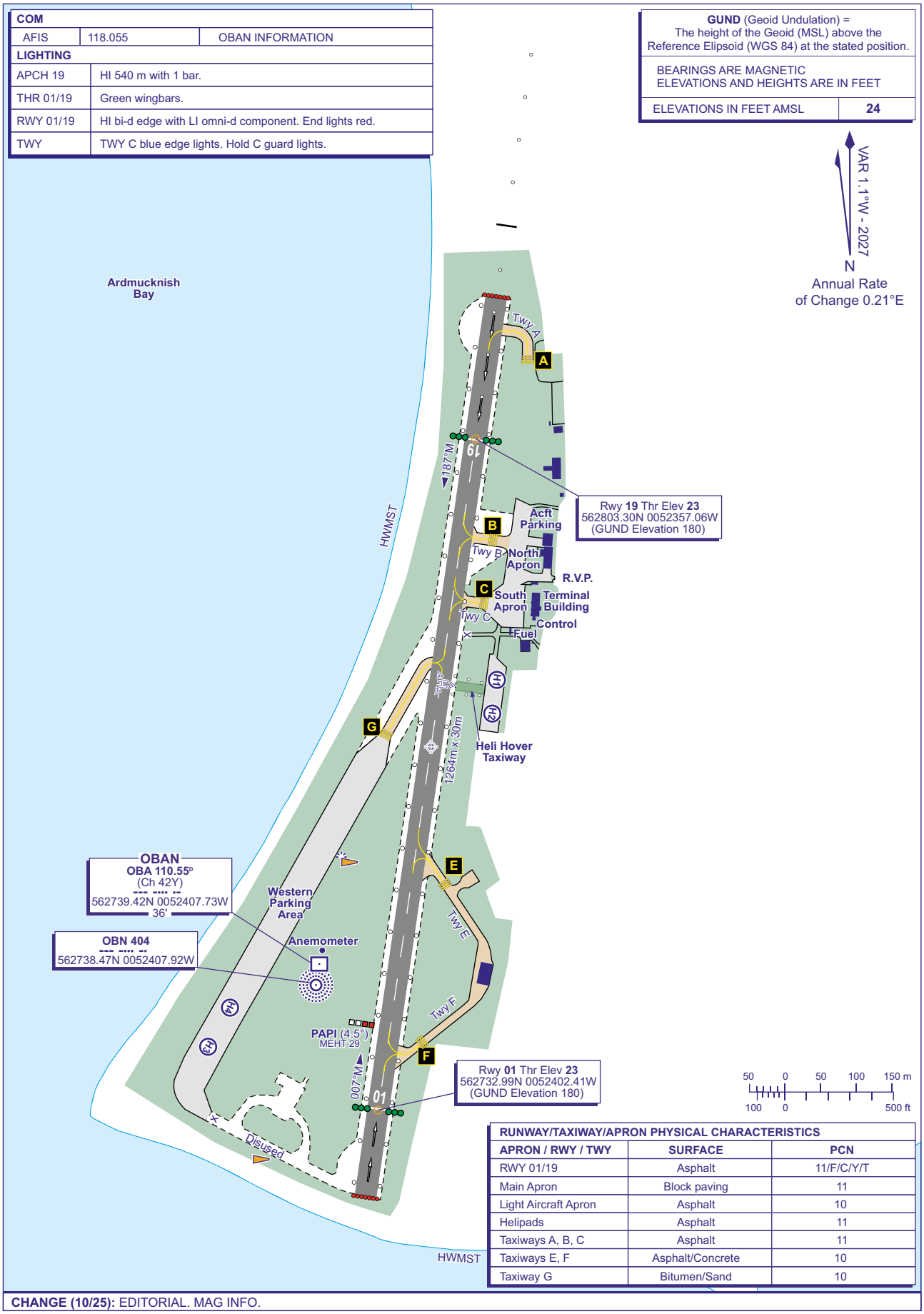
COM		
AFIS	118.055	OBAN INFORMATION

LIGHTING	
APCH 19	HI 540 m with 1 bar.
THR 01/19	Green wingbars.
RWY 01/19	HI bi-d edge with LI omni-d component. End lights red.
TWY	TWY C blue edge lights. Hold C guard lights.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL **24**



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**PCN**
RWY 01/19	Asphalt	11/F/C/Y/T
Main Apron	Block paving	11
Light Aircraft Apron	Asphalt	10
Helipads	Asphalt	11
Taxiways A, B, C	Asphalt	11
Taxiways E, F	Asphalt/Concrete	10
Taxiway G	Bitumen/Sand	10

CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 22 JUL 25

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EGSV — OLD BUCKENHAM

EGSV AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSV — OLD BUCKENHAM

EGSV AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 522951N Long: 0010307E On Runway 07/25
2	Direction and distance from city	12 NM SW of Norwich City.
3	Elevation / Reference temperature / Mean Low Temperature	194 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	155 FT
5	Magnetic Variation / Annual Change	0.84°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax Web address	BUCKENHAM AVIATION CENTRE LTD Old Buckenham Aerodrome, Abbey Road, Old Buckenham, Norfolk, NR17 1PU. 01953-860806 01953-860606 www.oldbuck.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGSV AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0930-1600 (0830-1500).
2	Customs and immigration	As AD hours plus Sat and Sun 0900-1600 (0800-1500). PPR is required.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18
8	Fuelling	Available on Request when submitting PPR.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Aerodrome may be unmanned Mon-Thu.

EGSV AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL W100/W80.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	Electric aircraft charging available - request when submitting PPR.

EGSV AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	Self-service cafe Mon-Wed 1000-1600 (0900-1500). Full cafe Thu-Sun 0900-1700 (0800-1600).
3	Transportation	
4	Medical facilities	
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGSV AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special. Thu-Sun 0930-1630 (0830-1530) or SS, whichever is earlier; other times by arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGSV AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGSV AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	
2	Taxiway width, surface and strength	Taxiway 25: Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGSV AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGSV AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSV2018) 02/TAKE-OFF	BUILDING	523007.75N 0010315.25E	197 FT		No	
(EGSV2017) 20/APPROACH 02/ TAKE-OFF	BUILDING	523007.62N 0010314.79E	196 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGSV AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGSV AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
02	019.85°	428 x 18 M	RWY surface: Grass	522953.05N 0010304.36E 155.0 FT	THR 176.9 FT	
20	199.85°	428 x 18 M	RWY surface: Grass	523004.31N 0010311.02E 155.0 FT	THR 181.0 FT	
07	064.67°	798 x 18 M	RWY surface: Asphalt	522945.73N 0010248.18E 155.0 FT	THR 155.0 FT	
25	244.68°	798 x 18 M	RWY surface: Asphalt	522956.75N 0010326.34E 155.0 FT	THR 194.4 FT	
07L	064.51°	407 x 23 M	RWY surface: Grass	522952.35N 0010303.84E 155.0 FT	THR 176.0 FT	
25R	244.52°	407 x 23 M	RWY surface: Grass	522958.02N 0010323.33E 155.0 FT	THR 192.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 02 Runways 02 and 07 QDMs are displaced due to coincidental thresholds. Corner markers are correctly positioned.
						RWY 20 Threshold displaced by 58 M.
						RWY 07 Runways 02 and 07 QDMs are displaced due to coincidental thresholds. Corner markers are correctly positioned.
						RWY 25
						RWY 07L
						RWY 25R 62 M starter extension.

EGSV AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	798 M	798 M	798 M	798 M	
25	798 M	798 M	798 M	798 M	
07L	407 M	407 M	407 M	407 M	
25R	469 M	469 M	469 M	407 M	
02	370 M	370 M	428 M	428 M	
20	428 M	428 M	428 M	370 M	

EGSV AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGSV AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGSV AD 2.16 HELICOPTER LANDING AREA

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EGSV AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
OLD BUCKENHAM ATZ A circle, 2 NM radius, centred at 522951N 0010307E on longest notified runway (07/25)	Upper limit: 2000 FT AGL Lower limit: SFC	G	BUCKENHAM RADIO English			

EGSV AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	BUCKENHAM RADIO	124.405 A/G Frequency			Thu-Sun 0930-1630 (0830-1530) or SS, whichever is earlier, other times by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGSV AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGSV AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Prior Permission (PPR) is required, available online at http://www.oldbuck.com.
b) No weight shift microlights permitted at the aerodrome.
c) No Autogyros permitted at the aerodrome.
d) No helicopters permitted at the aerodrome unless for maintenance.
e) Aerodrome is not licensed for night flying.
f) Aerodrome is not available to non-radio equipped aircraft.

2 GROUND MOVEMENT

a) Pilots and passengers using aircraft parking Area C must use the pick-up point designated on the AIP Chart. No person is permitted to proceed south of the designated area at any time.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Gliding takes place at Tibenham Aerodrome 5 NM to the southeast.
b) Occasional straw stack up to 30 FT AGL, 250 M from Runway 25 threshold.
c) Vehicles may cross the runway at the intersection of runway and perimeter road.
d) Caution Class D airspace at Norwich Airport has been established approximately 5 NM north of Old Buckenham Aerodrome up to FL 50.
e) Aerodrome Obstacle: 25/Approach 07/Take-off, 523101N 0010824E, Radio mast, 888 FT AMSL, lit, 3 NM bearing 070° T from AD.

5 HELICOPTER OPERATIONS

a) Helicopters are only permitted for the purposes of maintenance.

6 USE OF RUNWAYS

a) Grass Runway 07/25 operations must not be simultaneous with Hard Runway 07/25 operations.

7 TRAINING

a) Training Aircraft operate daily and sorties often comprise student solos.

EGSV AD 2.21 NOISE ABATEMENT PROCEDURES

a) Avoid overflying the village of Old Buckenham (1 NM SSW of the AD) and the town of Attleborough (2 NM NW of the aerodrome).
b) Overhead Joins are prohibited except for training approved by the aerodrome management.
c) Ensure familiarity with local circuit diagram at aerodrome website. Detail is also given with Prior Permission (PPR) requests.

EGSV AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit directions: Runway 07 - LH; Runway 25 - RH. Circuit height: 1000 FT AAL.
b) **Arrivals:**

i. When joining Runway 07 from the west, report at Snetterton Heath;
ii. When joining Runway 25 from the east, report at Tacolneston Mast.

c) **Departures:**

i. When departing from Runway 25, turn onto track 270° until reaching the railway line south of Attleborough;
ii. When departing from Runway 07, maintain runway heading until reaching 1500 FT AAL prior to setting course.

EGSV AD 2.23 ADDITIONAL INFORMATION

Electric Aircraft Charging is available 7 days.

a) Charging requests can be made when applying for Prior Permission (PPR) online at http://www.oldbuck.com.
b) Aircraft types currently serviced:

   i. NUNCATS Zenith CH705;
   ii. Pipistrel Velis Electro.

c) Charging is **not** self service and requires the assistance of trained staff.

EGSV AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSV-2-1

EGSV AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

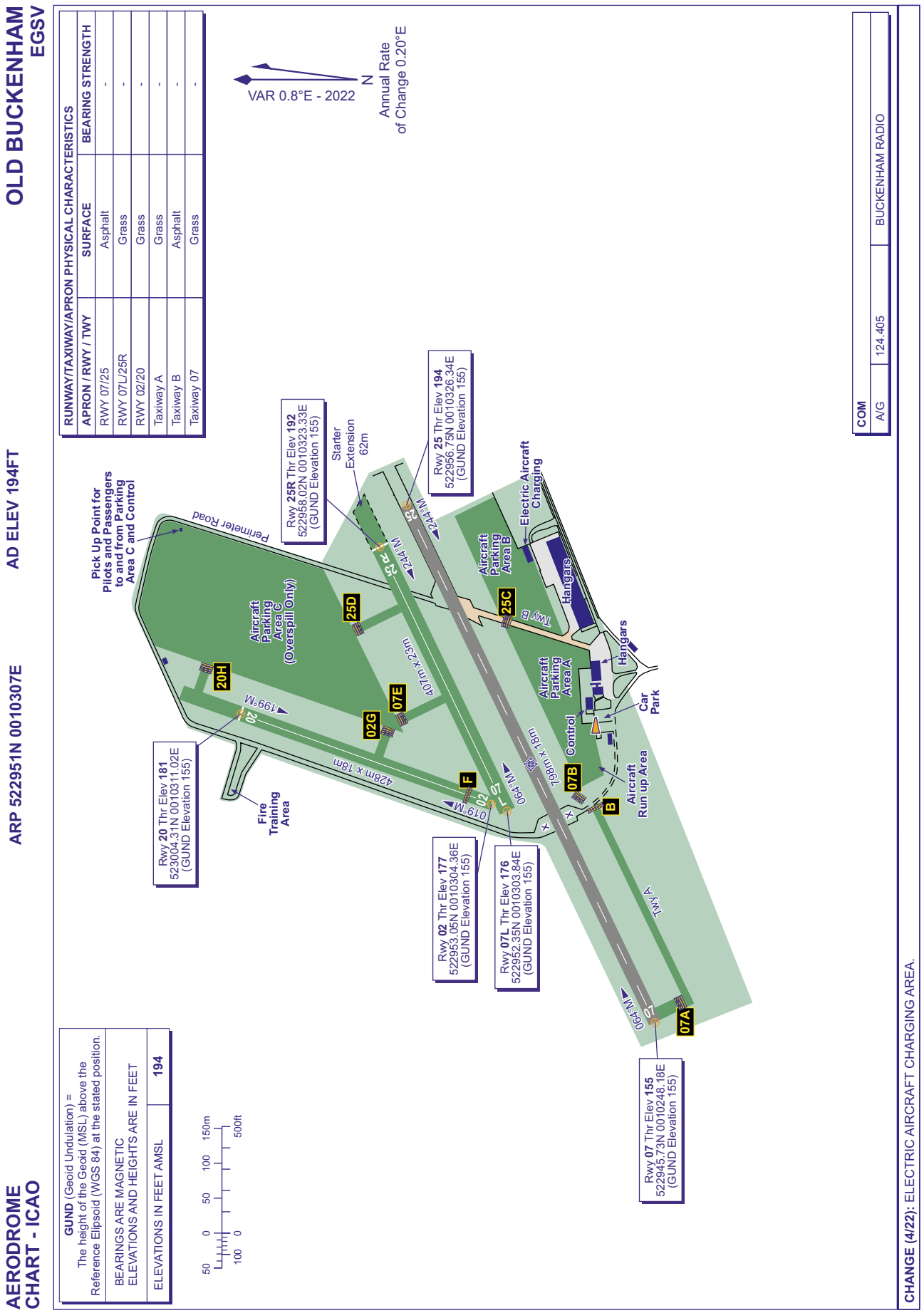
Not applicable

AERODROME CHART - ICAO

OLD BUCKENHAM EGSV

AD ELEV 194FT

ARP 522951N 0010307E



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 07/25	Asphalt	-
RWY 07L/25R	Grass	-
RWY 02/20	Grass	-
Taxiway A	Grass	-
Taxiway B	Asphalt	-
Taxiway 07	Grass	-

COM		
A/G	124.405	BUCKENHAM RADIO

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL — 194

CHANGE (4/22): ELECTRIC AIRCRAFT CHARGING AREA.

AERO INFO DATE 20 JAN 22

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EGTH — OLD WARDEN

EGTH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTH — OLD WARDEN

EGTH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 520512N Long: 0001907W 260 M south of Runway 20 Threshold.
2	Direction and distance from city	6 NM ESE Bedford
3	Elevation / Reference temperature / Mean Low Temperature	127 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	153 FT
5	Magnetic Variation / Annual Change	1.23°E (2027) / 0.17°E
6	AD Administration Address Telephone	THE SHUTTLEWORTH COLLECTION Shuttleworth Old Warden Aerodrome, Old Warden Park, Biggleswade, SG18 9EP. 01767-627914 01767-627918 (Tower when manned)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Aerodrome operates under a seasonal licence (Nominated days only).

EGTH AD 2.3 OPERATIONAL HOURS

1	AD Administration	0600 (0500) or SR-30, whichever is later - SS+30.
2	Customs and immigration	By Arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18
8	Fuelling	During AD published hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Aerodrome is strictly PPR.

EGTH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL, AVGAS UL91
3	Fuelling facilities/capacity	Self-service fuelling facilities (pay at pump).
4	De-icing facilities	
5	Hangar space for visiting aircraft	By arrangement
6	Repair facilities for visiting aircraft	By arrangement
7	Remarks	

EGTH AD 2.5 PASSENGER FACILITIES

1	Hotels	Available locally.
2	Restaurants	1000-1600 (0900-1600).
3	Transportation	
4	Medical facilities	
5	Bank and Post Office	Biggleswade Town
6	Tourist Office	

7	Remarks	The Shuttleworth Collection Museum, Swiss Gardens and Children's play area on site, open 1000-1600 (0900-1600) see https://www.shuttleworth.org for further details.

EGTH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	Display days and special events only. RFF Category 1. RFF Category 2 by arrangement. RFF Category 3 under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGTH AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGTH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Grass
2	Taxiway width, surface and strength	Taxiway TAXIWAY: Surface: Grass
3	Altimeter checkpoint location and elevation	Alongside Signal Square at base of the Tower
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGTH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 02/20: Runways are delineated by short grass. 02X threshold is marked with corner markings only, no runway designator. Runways are otherwise marked in accordance with CAP 168. Surface marking only. No Lighting. CAUTION: Runway 02X/20X extension, unmarked runways, and other unmarked surfaces are not available to aircraft except with approval from the Aerodrome Authority (conditions apply). Taxiway marking aid(s): Taxiways are delineated by short grass.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	

EGTH AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTH2516) 20/APPROACH 02/ TAKE-OFF	TREE	520528.29N 0001859.75W	170 FT		No	
(EGTH2519) 20/APPROACH 02/ TAKE-OFF	TREE	520526.93N 0001859.26W	143 FT		No	
(EGTH1516) 20/APPROACH 02/ TAKE-OFF	VEHICLE ON ROAD	520523.69N 0001857.20W	119 FT		No	
(EGTH2540) 20/APPROACH 02/ TAKE-OFF	TREE	520522.46N 0001857.07W	106 FT		No	
(EGTH2418) 02X/APPROACH 20X/ TAKE-OFF	TREE	520446.32N 0001928.28W	156 FT		No	
(EGTH2412) 02X/APPROACH 20X/ TAKE-OFF	TREE	520446.25N 0001925.16W	150 FT		No	
(EGTH2379) 02X/APPROACH 20X/ TAKE-OFF	TREE	520445.60N 0001924.31W	155 FT		No	
(EGTH2419) 02X/APPROACH 20X/ TAKE-OFF	TREE	520445.49N 0001929.87W	158 FT		No	
(EGTH2381) 02X/APPROACH 20X/ TAKE-OFF	TREE	520444.79N 0001925.55W	160 FT		No	
(EGTH2400) 02X/APPROACH 20X/ TAKE-OFF	TREE	520444.60N 0001930.80W	179 FT		No	
(EGTH2010) 02X/APPROACH 20X/ TAKE-OFF	TREE	520444.53N 0001920.68W	207 FT		No	
(EGTH2393) 02X/APPROACH 20X/ TAKE-OFF	TREE	520444.24N 0001930.11W	174 FT		No	
(EGTH2336) 02X/APPROACH 20X/ TAKE-OFF	TREE	520444.10N 0001921.54W	202 FT		No	
(EGTH2395) 02X/APPROACH 20X/ TAKE-OFF	TREE	520443.94N 0001931.01W	174 FT		No	
(EGTH2399) 02X/APPROACH 20X/ TAKE-OFF	TREE	520443.44N 0001932.22W	198 FT		No	
(EGTH2397) 02X/APPROACH 20X/ TAKE-OFF	TREE	520443.01N 0001932.22W	197 FT		No	
(EGTH2392) 02X/APPROACH 20X/ TAKE-OFF	TREE	520442.74N 0001931.45W	191 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTH2548)	TREE	520513.15N 0001901.60W	144 FT		No	
(EGTH2498)	TREE	520508.45N 0001917.80W	191 FT		No	
(EGTH2307)	TREE	520451.08N 0002011.75W	350 FT		No	

EGTH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	

4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGTH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
02	025.06°	799 x 21 M	RWY surface: Grass	520456.65N 0001918.62W 153.0 FT	THR 126.7 FT	RWY 02 1.0% down RWY 20 1.0% up
20	205.07°	799 x 21 M	RWY surface: Grass	520520.07N 0001900.84W 153.0 FT	THR 101.1 FT	RWY 02 1.0% down RWY 20 1.0% up
02X	025.06°	1000 x 21 M	RWY surface: Grass	520450.76N 0001923.09W 153.0 FT	THR 129.2 FT	
20X	205.07°	1000 x 21 M	RWY surface: Grass	520520.07N 0001900.84W 153.0 FT	THR 101.1 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14

EGTH AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02X	1000 M	1000 M	1068 M	1068 M	
20X	1087 M	1087 M	1087 M	1000 M	TORA, TODA, and ASDA include a starter extension of 87 M.
02	799 M	799 M	799 M	799 M	Runway 02 has a downslope, the effective landing distance is reduced.
20	799 M	799 M	799 M	799 M	

EGTH AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGTH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 520519.48N 0001911.31W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGTH AD 2.16 HELICOPTER LANDING AREA

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EGTH AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
OLD WARDEN ATZ A circle, 2 NM radius, centred at 520512N 0001907W on runway 02/20	Upper limit: 2000 FT AGL Lower limit: SFC	G	OLD WARDEN INFORMATION English OLD WARDEN RADIO English	6000 FT		ATZ will be temporarily established by NOTAM. ATS hours will coincide but may also operate separately.

EGTH AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	OLD WARDEN INFORMATION	130.705 DOC 10 NM/3000 FT.			Display Days and Special Events.	All aircraft to make calls to Old Warden Traffic outside of activated hours.
RADIO	OLD WARDEN RADIO	130.705 A/G frequency.			Display Days and Special Events.	All aircraft to make calls to Old Warden Traffic outside of activated hours.

EGTH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGTH AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) PPR via the weblink - https://oldwardenaerodrome.co.uk/ppr-booking-form. Pilots use the aerodrome at their own risk and are required to read and accept the Terms and Conditions. For all other facilities see - https://www.shuttleworth.org.
b) Based operators may fly outside of notified hours.
c) A standard overhead join must be made at 1800 FT AAL.
d) Aircraft operators must transmit their intentions, including standard position reports, when Old Warden Information Service is not operational.

2 GROUND MOVEMENT

a) Do not backtrack runways, vacate the runway to the North West.

b) Aircraft must be parked well clear of the end and sides of Runway 12/30 at the NW end where manoeuvring space is limited.
c) Old Warden Information Service can be visually identified as being operational when a flag is hoisted at the tower.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Avoid overflying Home Farm immediately to the East of the aerodrome.
b) Birds of prey, including kites, in the vicinity.
c) Model aircraft may operate at times.
d) Non-radio aircraft may conduct flight trials or display practise. Visiting pilots must keep a good look out and remain clear until safe to join.
e) **Caution:** Runway 02X/20X extension, unmarked runways, and other unmarked surfaces are not available to aircraft except with approval from the Aerodrome Authority (conditions apply).
f) With moderate and higher wind speeds, pilots should expect to encounter sink/turbulence on the approach to, and climb out from, all runways. Furthermore, pilots are also reminded that in moderate and higher wind speeds the wind gradient close to the surface can result in loss of airspeed and lift during the landing flare. In the past these effects have caught out highly experienced pilots be they flying heavy warbirds, or microlight type aircraft.
g) Trees intersect the 20 approach and 02 climb out.

5 HELICOPTER OPERATIONS

a) Helicopters must land airside of spectator fence and join as per fixed wing operations.

6 USE OF RUNWAYS

a) Only Runway 02/20 is available to visiting aircraft. Other runways may be in use by based aircraft conducting test flights or practise display.
b) 02X/20X only available with approval of Aerodrome Authority (conditions apply).

7 TRAINING

a) No training permitted except with the written permission of the Aerodrome Authority.

EGTH AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots should avoid overflight of all local villages where possible.

EGTH AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit Height: 800 FT.
b) Circuit Direction: Runway 20 LH, Runway 02 RH.
c) All aircraft to make a full overhead join at 1800 FT AAL to allow any model flying to cease.

EGTH AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGTH AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTH-2-1

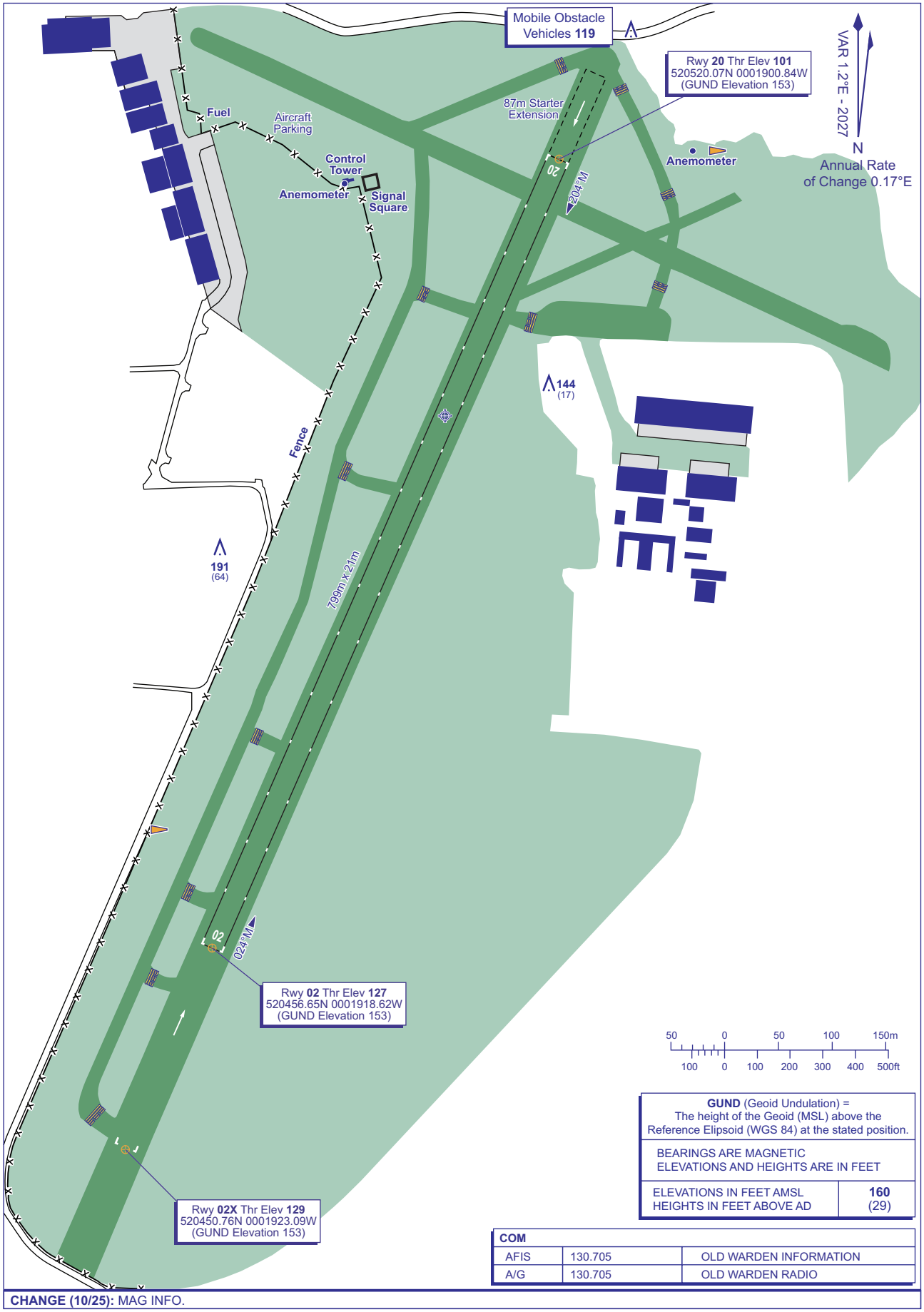
EGTH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 520512N 0001907W AD ELEV 127FT

OLD WARDEN
EGTH



GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**160** (29)

COM		
AFIS	130.705	OLD WARDEN INFORMATION
A/G	130.705	OLD WARDEN RADIO

CHANGE (10/25): MAG INFO.

AERO INFO DATE 22 JUL 25

AD 2-EGTH-2-1

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EGTK — OXFORD

EGTK AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTK — OXFORD

EGTK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515013N Long: 0011912W Mid point of Runway 01/19.
2	Direction and distance from city	6 NM NW by N of Oxford.
3	Elevation / Reference temperature / Mean Low Temperature	263 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	156 FT
5	Magnetic Variation / Annual Change	0.92°E (2027) / 0.18°E
6	AD Administration Address Telephone E-mail address Web address	OXFORD AVIATION SERVICES Oxford Airport, Kidlington, Oxford, OX5 1RA. 01865-290650 (ATC) 01865-290660 (Operations) 01865-290600 (Switchboard) ops@londonoxfordairport.com www.londonoxfordairport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Types of traffic permitted (IFR/VFR).

EGTK AD 2.3 OPERATIONAL HOURS

1	AD Administration	0630-2230 (0530-2130) Except Christmas and New Year, see latest NOTAM. Extensions by arrangement.
2	Customs and immigration	See remarks.
3	Health and sanitation	Pre-book with Oxford Ops Channel 131.640 or telephone as above.
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	As AD hours.
10	Security	H24
11	De-icing	As AD hours. By arrangement through Oxford Operations, Tel: 01865-290660.
12	Remarks	This aerodrome is PPR. Commanders shall book in with Airport Operations in advance on the numbers listed at AD 2.2. Customs/Immigration. Oxford Airport is a Certificate of Agreement aerodrome for customs/immigration purposes and accepts flights to/from any country with the requisite notice periods. All inbound and outbound flights must be notified to Operations (on the number listed at AD 2.2) and are subject to the following prior notice: (a) 2 hours prior to departure for all flights to/from outside the UK; (b) 12 hours in advance to the police for both inbound and outbound flights requiring Police Special Branch clearance (Common Travel Area and Northern Ireland). Contact, Tel: 01865-290660. UK GAR (General Aviation Report) required prior to all international arrivals and departures.

EGTK AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Yes. Details through Oxford Operations.
2	Fuel and oil types	JET-A1, AVGAS 100LL and SAF (Sustainable Aviation Fuel).

3	Fuelling facilities/capacity	AVGAS 100LL credit/fuel card self-service facility for aircraft with wingspan up to 12 M. AVGAS bowser service available for aircraft unable to use self-service. Fixed storage capacity 40,000 LT, mobile capacity 8,500 LT. JET-A1 bowser service, fixed storage capacity 170,000 LT, mobile capacity 57,000 LT.
4	De-icing facilities	17 M de-icing rig available by arrangement through Oxford Operations. Killfrost Type II.
5	Hangar space for visiting aircraft	By arrangement through airport Operations.
6	Repair facilities for visiting aircraft	Repair stations for a variety of fixed wing and rotor, contact Oxford Operations.
7	Remarks	A nominated handling agent is mandatory for all visiting aircraft over 2.3 tonnes. Handling for corporate or general aviation is provided by Oxford Aviation Services. SITA: OXFAPXH. Aircraft to call Oxford Ops on Channel: 131.640, 15 minutes prior to arrival. Oxygen, Nitrogen, Ground Power (GPU), Water, Toilet and Valet services provided by airport handling services on request. All handling services provided by Oxford Airport. AL41 and ICE 05 are stocked for customers own use. Contact Operations (01865-290660) for details of available SAF blends.

EGTK AD 2.5 PASSENGER FACILITIES

1	Hotels	Kidlington (1 mile), Woodstock (2 miles), Oxford (3-6 miles).
2	Restaurants	Restaurant, Bar/Cafe on-site. Executive catering by arrangement.
3	Transportation	Bus, taxis and car hire. Chauffeur services on request. Nearest rail station: Oxford Parkway (3.1 miles).
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	
6	Tourist Office	Local information in terminal building.
7	Remarks	Executive and pilot's lounge and rest rooms in terminal building. Accommodation and transportation arrangements can be made via Airport Operations. For other facilities call Operations or view - www.londonoxfordairport.com

EGTK AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6
2	Rescue equipment	Standard Equipment for up to Category 6.
3	Capability for removal of disabled aircraft	For removal of disabled aircraft contact aerodrome coordinator - Airport Operations Manager Tel: 07534-325700.
4	Remarks	All aircraft capable of aerodrome use can be removed using contracted external resource.

EGTK AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical & Chemical De-icing
2	Clearance priorities	Standard. See AD 1.2.2
3	Remarks	Latest information from Oxford Operations, Tel: 01865-290660

EGTK AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway ALPHA: 15 M Surface: Asphalt PCN 30/F/C/W/T

		Taxiway BRAVO: 15 M Surface: Asphalt PCN 38/F/A/X/T Taxiway CHARLIE: 26 M Surface: Asphalt Taxiway DELTA: 26 M Surface: Asphalt Taxiway FOXTROT: 8 M Surface: Grass Taxiway PAPA: Surface: Grass Taxiway TANGO: Surface: Grass
3	Altimeter checkpoint location and elevation	See Aircraft Parking/Docking Chart.
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	Movements beyond hold Juliet maybe subject to Marshaller's instructions. Taxiway Foxtrot is one way and only available for use to vacate the runway. Main Apron South (Stands 1-20) and Taxiway Foxtrot max wingspan 12 M due taxilane reduced wing tip clearance.

EGTK AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1-24 are self park. Parking on other areas of the apron may be marshalled as required.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 01/19: Threshold, centre-line, aiming point, touchdown zone. Runway light(s): Threshold: HI green, Edge: HI white, Stop End: HI red. Taxiway marking aid(s): Yellow centre-line. Blue edge reflector markers. Taxiway light(s): Blue edge lighting on taxiway Alpha, Bravo, Charlie and Delta.
3	Stop bars and runway guard lights (if any)	All holding points for Runway 01/19, except Holding Point G. Stop bars illuminated during AD hours.
4	Other runway protection measures	
5	Remarks	3 WDIs for Runway 01/19: 515002.44N 0011921.95W (LGTD); 515021.78N 0011915.28W (LGTD); and 515013.40N 0011933.64W (LGTD).

EGTK AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTK14286) 19/APPROACH 01/ TAKE-OFF	TREE	515118.10N 0011854.74W	362 FT	86 FT	No	
(EGTK14252) 19/APPROACH 01/ TAKE-OFF	TREE	515100.98N 0011904.78W	317 FT	40 FT	No	
(EGTK14240) 19/APPROACH 01/ TAKE-OFF	TREE	515100.61N 0011906.59W	317 FT	40 FT	No	
(EGTK14319) 19/APPROACH 01/ TAKE-OFF	TREE	515100.14N 0011855.05W	323 FT	48 FT	No	
(EGTK14226) 19/APPROACH 01/ TAKE-OFF	TREE	515059.24N 0011908.27W	315 FT	43 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTK14208) 19/APPROACH 01/ TAKE-OFF	TREE	515057.33N 0011910.54W	304 FT	44 FT	No	
(EGTK14199) 19/APPROACH 01/ TAKE-OFF	TREE	515056.76N 0011911.52W	316 FT	59 FT	No	
(EGTK14020) 19/APPROACH 01/ TAKE-OFF	MOBILE OBST	515040.15N 0011910.39W	271 FT	16 FT	No	
(EGTK14015) 19/APPROACH 01/ TAKE-OFF	MOBILE OBST	515039.44N 0011904.62W	269 FT	16 FT	No	
(EGTK14364) 19/APPROACH 01/ TAKE-OFF	TREE	515038.47N 0011853.88W	296 FT	41 FT	No	
(EGTK14007) 19/APPROACH 01/ TAKE-OFF	MOBILE OBST	515038.44N 0011856.56W	272 FT	16 FT	No	
(EGTK12045) 01/APPROACH 19/ TAKE-OFF	UTILITY POLE	514950.42N 0011926.88W	275 FT	25 FT	No	
(EGTK14041) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	514947.04N 0011924.53W	261 FT	16 FT	No	
(EGTK14705) 01/APPROACH 19/ TAKE-OFF	HEDGE	514946.47N 0011923.45W	256 FT	13 FT	No	
(EGTK14689) 01/APPROACH 19/ TAKE-OFF	HEDGE	514945.89N 0011915.71W	253 FT	9 FT	No	
(EGTK14031) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	514945.52N 0011916.12W	261 FT	16 FT	No	
(EGTK3127) 01/APPROACH 19/ TAKE-OFF	ROADSIGN	514944.86N 0011918.11W	258 FT	13 FT	No	
(EGTK14035) 01/APPROACH 19/ TAKE-OFF	MOBILE OBST	514944.67N 0011920.23W	258 FT	16 FT	No	
(EGTK14523) 01/APPROACH 19/ TAKE-OFF	TREE	514940.96N 0011918.13W	273 FT	32 FT	No	
(EGTK14601) 01/APPROACH 19/ TAKE-OFF	TREE	514935.71N 0011932.31W	330 FT	98 FT	No	
(EGTK12654) 01/APPROACH 19/ TAKE-OFF	TREE	514933.62N 0011931.36W	319 FT	87 FT	No	
(EGTK14506) 01/APPROACH 19/ TAKE-OFF	TREE	514932.78N 0011920.14W	305 FT	77 FT	No	
(EGTK14479) 01/APPROACH 19/ TAKE-OFF	TREE	514932.46N 0011916.62W	307 FT	80 FT	No	
(EGTK11650) 01/APPROACH 19/ TAKE-OFF	TREE	514906.48N 0011947.54W	384 FT	60 FT	No	
(EGTK12632) 01/APPROACH 19/ TAKE-OFF	TREE	514905.15N 0011939.68W	378 FT	81 FT	No	
(EGTK11138) 01/APPROACH 19/ TAKE-OFF	TREE	514904.47N 0011934.74W	372 FT	90 FT	No	
(EGTK14563) 01/APPROACH 19/ TAKE-OFF	TREE	514904.46N 0011952.37W	405 FT	71 FT	No	
(EGTK14567) 01/APPROACH 19/ TAKE-OFF	TREE	514904.44N 0011953.54W	406 FT	73 FT	No	
(EGTK11147) 01/APPROACH 19/ TAKE-OFF	TREE	514900.51N 0011943.67W	387 FT	61 FT	No	
(EGTK14529) 01/APPROACH 19/ TAKE-OFF	TREE	514858.98N 0011942.02W	402 FT	79 FT	No	
(EGTK14518) 01/APPROACH 19/ TAKE-OFF	TREE	514858.83N 0011938.66W	394 FT	83 FT	No	
(EGTK14519) 01/APPROACH 19/ TAKE-OFF	TREE	514858.60N 0011940.06W	404 FT	86 FT	No	
(EGTK12874) 01/APPROACH 19/ TAKE-OFF	TREE	514621.28N 0012012.67W	614 FT	82 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTK13620)	TREE	515216.32N 0011626.40W	425 FT	93 FT	No	
(EGTK12964)	MONUMENT	515059.53N 0012210.49W	461 FT	128 FT	No	
2022020034	CRANE	515039.93N 0012025.89W	499 FT	197 FT	No	Mobile construction crane at Cowells Road. Not present all the time. Operating within radius 350 M from position. End estimated March 2026.
(EGTK12290)	GP MAST	515027.30N 0011912.82W	296 FT	27 FT	Yes Red	
(EGTK12285)	WINDSLEEVE	515021.78N 0011915.28W	291 FT	25 FT	Yes Red	
(EGTK10021)	VDF	515017.03N 0011900.04W	275 FT	24 FT	Yes Red	
(EGTK13017)	TREE	515015.72N 0012241.18W	498 FT	106 FT	No	
(EGTK3383)	RADAR	515014.84N 0011938.66W	347 FT	85 FT	Yes Red	
(EGTK3376)	TXRX MAST	515005.27N 0011933.46W	310 FT	49 FT	Yes Red	
(EGTK3377)	TXRX MAST	515003.93N 0011933.89W	311 FT	51 FT	Yes Red	
(EGTK4512)	MET MAST	515003.20N 0011924.15W	301 FT	41 FT	Yes Red	
(EGTK11802)	WINDSLEEVE	515002.44N 0011921.95W	287 FT	27 FT	Yes Red	
(EGTK5100)	NDB LIT	515000.28N 0011924.45W	294 FT	36 FT	Yes Red	
PERMIT 032301	CRANE	514938.65N 0011836.26W	393 FT	165 FT	Yes Red	Mobile construction crane at Oxford Technology Park, Langford Lane. Not present all the time. Operating within radius 150 M from position. End estimated March 2026.
(EGTK10874)	TREE	514916.70N 0012028.49W	448 FT	97 FT	No	
(EGTK13875)	MAST	514726.32N 0011044.77W	993 FT	554 FT	Yes Red	
(EGTK3444)	MAST	514507.52N 0011111.62W	699 FT	144 FT	No	
(EGTK13878)	MAST	514325.24N 0011806.95W	715 FT	179 FT	No	
(EGTK13879)	MAST	514323.38N 0011802.05W	664 FT	133 FT	No	
(EGTK13877)	MAST	514322.75N 0011805.79W	678 FT	143 FT	No	

EGTK AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.

6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	Form 214/215/415, TAF/METAR AIRMET, internet access, consultation.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	OXFORD
10	Additional information (limitation of service, etc.)	Routine observations made at H+20 and H+50 during ATS hours. IRVR 19 Threshold only.

EGTK AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
01	010.68°	1526 x 30 M	RWY surface: Asphalt, Grooved PCN 38/F/C/W/T	514952.10N 0011918.22W 156.5 FT	THR 248.9 FT TDZ 256.9 FT	
19	190.68°	1526 x 30 M	RWY surface: Asphalt, Grooved PCN 38/F/C/W/T	515034.05N 0011905.45W 156.5 FT	THR 258.3 FT TDZ 263.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	150 x 150 M	1439 x 300 M	90 x 60 M -			RWY 01 Threshold displaced by 143 M.
	175 x 150 M	1439 x 300 M	147 x 60 M -			RWY 19 Threshold displaced by 64 M.

EGTK AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
01	1442 M	1592 M	1442 M	1319 M	
19	1383 M	1558 M	1383 M	1319 M	
19	1000 M	1174 M	1000 M		Take-off from intersection with Hold C1.

EGTK AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
01	Omni-directional variable intensity RTIL either side of threshold.	Green Light intensity high With elev green wingbars	PAPI Left/3° 29 FT 140 M			Bi-directional White 60 M spacing Light intensity high	HI Red		EDGE: Final 380 M amber.

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
19	Omni-directional variable intensity RTIL either side of threshold. Coded centre-line with three crossbars. 454 M Light intensity high	Green Light intensity high With elev green wingbars	PAPI Left/3° 41 FT 245 M			Bi-directional White 60 M spacing Light intensity high	HI Red		EDGE: Final 380 M amber.

EGTK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Runway 01 - 515003.20N 0011924.15W (LGTD), Runway 19 - 515027.30N 0011912.82W (LGTD).
3	TWY edge and centre line lighting	EDGE: Blue edge lighting on Taxiways A, B, C and D.
4	Secondary power supply/switch-over time	Yes/15 seconds.
5	Remarks	Apron flood lighting available on Main Apron and South Apron. Low light levels in Maintenance Areas.

EGTK AD 2.16 HELICOPTER LANDING AREA

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EGTK AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
OXFORD ATZ A circle, 2 NM radius, centred at 515013N 0011912W on longest notified runway (01/ 19)	Upper limit: 2000 FT AGL Lower limit: SFC	G	OXFORD APPROACH English	6000 FT		

EGTK AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	OXFORD APPROACH	125.090 DOC 40 NM/ 10,000 FT.			0630-2230 (0530-2130).	
TWR	OXFORD GROUND	121.955			Open only when notified by ATIS or when directed by ATC. Not continuously monitored.	ATZ hours coincident with Tower hours.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
	OXFORD TOWER	133.430 DOC 25 NM/4,000 FT. TWR may be provided by APP, refer to ATIS.			0630-2230 (0530-2130).	
RADAR	OXFORD DIRECTOR	119.980 DOC 40 NM/ 10,000 FT.			When Directed by ATC. Not continuously monitored.	
	OXFORD RADAR	125.090 DOC 40 NM/ 10,000 FT.			0730-2000 (0630-1900).	
ATIS	OXFORD ATIS	136.230 DOC 50 NM/ 20,000 FT.			0630-2230 (0530-2130).	
OTHER	OXFORD FIRE	121.600 Non-ATS Frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	OXFORD EMERGENCY	121.500 Emergency Frequency			O/R	

EGTK AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.92°E (2027)	IOXF	108.350 MHz	0630-2230 (0530-2130) Except Christmas and New Year, see latest NOTAM.	514945.19N 0011920.29W		(RWY 19)
ILS/GP	IOXF	333.950 MHz	0630-2230 (0530-2130) Except Christmas and New Year, see latest NOTAM.	515027.34N 0011912.81W		3° ILS Ref Datum Hgt 41 FT. ILS glidepath is not suitable for auto-coupled approaches.
DME	IOXF	20Y 108.350 MHz	0630-2230 (0530-2130) Except Christmas and New Year, see latest NOTAM.	515013.84N 0011918.58W	283 FT	(RWY 19) Zero range is indicated at THR of Runway 01 and 19. DME frequency paired with ILS I-OXF.
NDB 0.92°E (2027)	OX	367.500 kHz	0630-2230 (0530-2130) Except Christmas and New Year, see latest NOTAM.	515000.28N 0011924.45W		On AD. Range 25 NM.

EGTK AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aircraft operators must obtain, accept and operate in accordance with the London Oxford Airport 'Terms and Conditions of Use', available at www.oxfordairport.co.uk.
b) Non-radio aircraft must contact ATC to obtain prior permission and joining/departure briefing. Tel: 01865-290650.
c) Passenger embarkation or disembarkation with engines running is prohibited.
d) High visibility clothing must be worn on all aprons, except for escorted passengers.
e) When the RVR is below 400 M departures are not permitted unless AOC holders have less restrictive State authorised take-off minima. Take-off will not be permitted if the RVR is less than 350 M.

2 GROUND MOVEMENT

a) Maintenance areas have restricted access (specified in terms and conditions of use). Operators must liaise with Oxford Operations to arrange parking, hangarage, if taxiing is permitted or towing required. Maintenance areas are not visible to ATC. Pilots of aircraft taxiing in these areas are solely responsible for the avoidance of collisions with aircraft, vehicles and other obstructions.
b) Compass swing bay, Class 1, Located at the end of Delta taxiway.
c) Data Link service available via ARINC.
d) Due to their tactical nature, departure instructions are not normally available until after the aircraft has taxied.
e) Jet Aircraft operating under their own power, larger than code B, are not permitted to use the taxiway link at Juliet to MA 1 or MA 2. Aircraft are to be parked on the main apron and towed as required.
f) Only single and twin piston aircraft are permitted to taxi under their own power beyond holding point Kilo. All other aircraft will be towed to/from the main apron.
g) Piston aircraft are to perform pre-departure engine runs on Taxiway Alpha (Runway 01 in use) or in the designated run-up area on Taxiway Charlie east of holding point C3 (Runway 19 in use). Aircraft using the Taxiway Charlie run-up area are to pass other running aircraft on the south side of the taxiway then perform their checks on the north side of the taxiway, leaving sufficient space for another aircraft to pass.
h) All Jet and Turbo-prop maintenance ground runs are to be conducted on the Delta Compass Base. Other locations may be utilised for piston aircraft at ATC discretion. All maintenance ground runs must be booked with Airport Operations.

3 CAT II/III OPERATIONS

a) Oxford is not equipped for Cat II/III operations, however LVPs are used to protect Cat I operations.
b) LVPs commence when the reported meteorological visibility is less than 550 M. A follow me vehicle may be provided as instructed by ATC.

4 WARNINGS

a) EGD129 is notified as active SR-SS Mon-Fri plus other HR as notified by NOTAM. It is located 4.5 NM northeast of the aerodrome. Tactical activity details are available from Oxford ATC upon request. A SUA Crossing Service is available from Oxford Approach/Radar on Channel 125.090.
b) Brize Norton CAS:

   i. Due to the possibility that departures from Runway 19 may penetrate the Brize Norton CTR, deviation from the departure clearance is not permitted unless safety is likely to be compromised.
   ii. Departures must remain outside the Brize Norton CTR unless cleared to transit. Seek confirmation from Oxford ATC if required.

c) Power cables 316 FT AMSL at 860 M north of Runway 19 threshold.
d) Caution: Abingdon aerodrome situated 8 NM south of Oxford has a similar runway configuration.
e) Caution: Oxford Airport is situated within the Oxford Area of Intense Aerial Activity.

5 HELICOPTER OPERATIONS

a) Standard Arrival: Enter via the fixed wing circuit unless otherwise instructed by ATC, route to the runway or Heli Area 1 as directed.
b) Standard Departure: Helicopters may depart parallel to the runway or as directed by ATC.
c) Except when using the runway, take-off and landing clearances will be appended "at your discretion". Caution fixed obstacles on all grass manoeuvring areas and free-ranging vehicles which are operating on their own lookout.
d) Heli Area 1 is the grass manoeuvring area west of Runway 01/19 and south of Taxiway Delta.

   i. Heli Area 1 may be used by multiple helicopters simultaneously for: departure, arrival, low-level handling and circuits.
   ii. Arrivals and departures via Heli Area 1 must not overfly the buildings immediately north-west and south-west of the aerodrome.
   iii. Helicopter circuits may be flown from Heli Area 1. Circuits are left hand (Runway 01 in use) or right hand (Runway 19 in use) at 1000 FT QNH. Upon departure from Heli Area 1 all circuit aircraft are to climb parallel with the runway heading until passing 500 FT AGL.
   iv. Circuits in Heli Area 1 are not available at night and are instead to be flown to the runway.

e) Helipad 1, 2 & 3 are restricted to helicopters maximum 17D.
f) Helipad 4, 5, 6 & 7 are restricted to helicopters maximum 14D.
g) Helipads 21-28 are operated by Airbus Helicopters UK.

h) Helipad 21, 24, 25, 26 & 27 are restricted to helicopters maximum 18D.
i) Helipad 22 & 23 are restricted to helicopters maximum 16D.
j) Helipad 28 is restricted to helicopters maximum 20D.
k) Pilots operating to/from Airbus Helicopters UK must contact Airbus on 01865-852400 to book in, be allocated a helipad and receive a pilot briefing. This is due to specific operating procedures being in place.
l) Some helipads have low ambient light levels and no edge lighting. Pilots are to proceed with caution and land at their discretion at night.

6 USE OF RUNWAYS

a) Runway Occupancy

i. Departures: Pilots must be ready for immediate departure before lining up. If unable, pilots must inform ATC prior to line up.
ii. Landing: Due to limited runway exits all pilots must spend 'minimum time on the runway' and vacate without delay to expedite traffic flow.

b) Runway 19 will be selected as the runway in use with up to a 5 KT tailwind. Requests for runway 01 must be made to ATC as early as possible.
c) Controllers may issue a 'land after' instruction. Pilots unable to accept, must inform ATC and await a full landing clearance, or initiate a go around.

7 TRAINING

a) Instrument approaches and circuit training slots can be requested on the day (not less than 15 MIN notice) via ATC (01865-290650).
b) All training flights must be booked prior to departure. Non-adherence to slot times may result in refusal of flight.

EGTK AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots are to avoid overflying the surrounding residential areas, including Blenheim Palace, except where there is an overriding training or flight safety requirement.
b) After departing from Runway 01, climb ahead to 1000 FT QNH or 1.0 DME I OXF, whichever is the earliest, before turning on course. Pilots carrying out visual departures should endeavour to complete this turn before reaching the Mercury Satellite Station (at 1.5 NM). When turning right, pilots are to avoid overflying the village of Shipton-on-Cherwell.
c) After departing from Runway 19, climb straight ahead to 1000 FT QNH or 1 DME I OXF, whichever is the earliest, before turning right. Aircraft intending to turn left, climb ahead to 1.5 DME I OXF (IFR) or until south of Yarnton Village (VFR), remaining clear, in all cases, of the Brize Norton CTR.
d) Whenever possible aircraft joining the circuit should, subject to ATC approval, plan to join on a base leg, giving way to traffic already established in the circuit. Straight in approaches are to be co-ordinated with ATC by no later than 10 NM so as not to conflict with published instrument final approach tracks.
e) Helicopter traffic is subject to standard arrival and departure procedures and routes.
f) Oxford Airport operates a noise amelioration scheme. A copy is available from Airport Operations.
g) Additional guidance and circuit diagrams are available on the Oxford Airport Website: https://www.oxfordairport.co.uk/noise-abatement/.

EGTK AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) The fixed wing circuit level is 1500 FT (QNH), 1200 FT (QFE).
b) The helicopter circuit level is 1000 FT (QNH), 700 FT (QFE) by day and 1300 FT (QNH), 1000 FT (QFE) by night.
c) Standard fixed wing circuit direction: Runway 01 - right hand, Runway 19 - left hand.
d) Rotary circuits are opposite direction to fixed wing.
e) Low-level circuits subject to ATC approval, not below 900 FT (QNH), 600 FT (QFE).
f) Additional guidance and circuit diagrams are available on the Oxford Airport Website: https://www.oxfordairport.co.uk/noise-abatement/.

2 DEPARTURES/ARRIVALS

a) STANDARD VFR DEPARTURE: VFR traffic shall squawk 4520, and must not fly above 2000 FT (QNH) until passing 5 NM from the aerodrome, unless otherwise instructed.
b) STANDARD VFR ARRIVAL: Inbound traffic is to make contact with Oxford Approach/Radar no later than 10 NM from Oxford and are to fly not above altitude 1500 FT (QNH) whilst within 5 NM of the aerodrome.
c) IFR departures and arrivals will be issued with specific routing instructions by ATC.
d) IFR DEPARTURES joining the airway structure are required to flight plan the following initial routes:

Direction	Route
North	IXURA - DTY - SAPCO
East	IXURA - DTY
South (RFL FL 195+)	IXURA - NANUM - BUGUP - EVSEM - CPT
South (RFL FL 195-)	BUGUP - KENET

Direction	Route
West (RFL FL 105+)	CONKO
West (RFL FL 105-)	BADIM
London TMA	SILVA
EGLL / EGWU	WEZKO

e) IFR arrivals from outside CAS are to plan via the NDB OX.
f) IFR ARRIVALS via the airway structure are to flight plan via:

Direction	Route
North	HON / PEPUL - BUGUP - OX
East	CPT / KENET - BUGUP - OX
South	CPT / KENET - BUGUP - OX
West	CONKO - OX

g) RUNWAY 01 ARRIVALS: The final approach track to Runway 01 transits Brize Norton CAS and is subject to approval from Brize ATC. Pilots must not plan or expect a no delay straight in approach to Runway 01 due to the requirement to co-ordinate with and deconflict from Brize Norton traffic. All approaches to Runway 01 will be as directed by ATC.

3 ATS SERVICE PROVISION

a) IFR/VFR arrivals operating outside CAS must establish two-way contact with Oxford Approach/Radar no later than 10 MIN flying time or 10 NM range from Oxford.
b) Departing aircraft should inform ATC prior to being airborne which ATC service they will be requesting on departure (deconfliction, traffic, procedural or basic, as appropriate for their requirements).
c) Arriving aircraft should state on first contact what type of service they require (deconfliction, traffic, procedural or basic, as appropriate). Aircraft requiring a deconfliction service may incur delays during the promulgated radar hours due to intense GA and glider flying within the vicinity of the aerodrome.
d) **During Hours of Radar Operation**

i. VFR departures and arrivals will normally be provided with Basic Service unless another type of service is requested. Departures requesting radar services are to make this request on the ground before departure.
ii. IFR departures and arrivals will normally be provided with surveillance services in so far as practical. Departures and arrivals are to state requested service on first contact with Oxford Radar.

e) **Hours of Radar Closure**

i. VFR departures and arrivals will be provided with Basic Service.
ii. IFR departures and arrivals will be provided with Procedural Service. Pilots are reminded that delays may be expected in order to separate from other IFR flights.

f) **Air Tests**

i. Operators wishing to perform an air test inside CAS receiving a service from Swanwick (Mil) (off the main ATS structure) should follow the notification procedure in ENR 1.1, Section 4.8. Oxford ATC must be notified on booking out that this process has been completed.
ii. Operators wishing to perform an air test inside CAS (using the main ATS structure) should follow the notification procedure in ENR 1.1, Section 4.9. Oxford ATC must be notified on booking out that this process has been completed.
iii. Operators wishing to perform an air test outside CAS should notify Oxford ATS on booking out of an ATS provider and any prior arrangements made. ATS provision must be requested at least 2 hours before EOBT and is subject to controller workload and capacity.

4 INSTRUMENT APPROACH PROCEDURES

a) CAUTION: Instrument Approach Procedures (IAP) for Oxford are established outside controlled airspace. See ENR 1.5.
b) Auto-coupled approaches are not permitted.
c) Pilots may experience glidepath fluctuations within 1.0 DME IOXF.

5 FREQUENCY MONITORING CODE (FMC)

a) During the hours of Oxford Radar operation, pilots operating in the vicinity of Oxford Airport within the area defined by the following points and maintaining a listening watch only on Oxford Radar frequency, 125.090 MHz, are encouraged to select SSR code 4517.

514352N 0010616W - 514149N 0005911W
thence anti-clockwise by the arc of a circle radius 15 NM centred on 515013N 0011912W to
513530N 0012344W
thence clockwise by the arc of a circle radius 30 NM centred on 511631N 0004639W to
514352N 0010616W.

b) Selection of 4517 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of controlled airspace at all times.
c) Whilst squawking 4517 pilots should be aware that Oxford Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 4517 shall be deselected.
e) Pilots operating in this area but within 5 NM of the edge of the Brize Norton CTR may choose to maintain a listening watch on Brize Radar (LARS) on channel, 124.280 and select SSR code 3727.

EGTK AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGTK AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTK-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGTK-2-2
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGTK-2-3
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGTK-5-1
INSTRUMENT APPROACH CHART NDB(L) RWY 01 (CAT A,B,C) - ICAO
AD 2.EGTK-8-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 19 (CAT A,B,C) - ICAO
AD 2.EGTK-8-2
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 19 (CAT A,B,C) - ICAO
AD 2.EGTK-8-3
INSTRUMENT APPROACH CHART NDB(L) RWY 19 (CAT A,B,C) - ICAO
AD 2.EGTK-8-4

EGTK AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 515013N 0011912W

AD ELEV 263FT

OXFORD
EGTK

COM		
ATIS	136.230	OXFORD ATIS
TWR	133.430	OXFORD TOWER
	121.955 (GMC)*	OXFORD GROUND * Only open when notified by ATIS or when directed by ATC.
	121.600	OXFORD FIRE

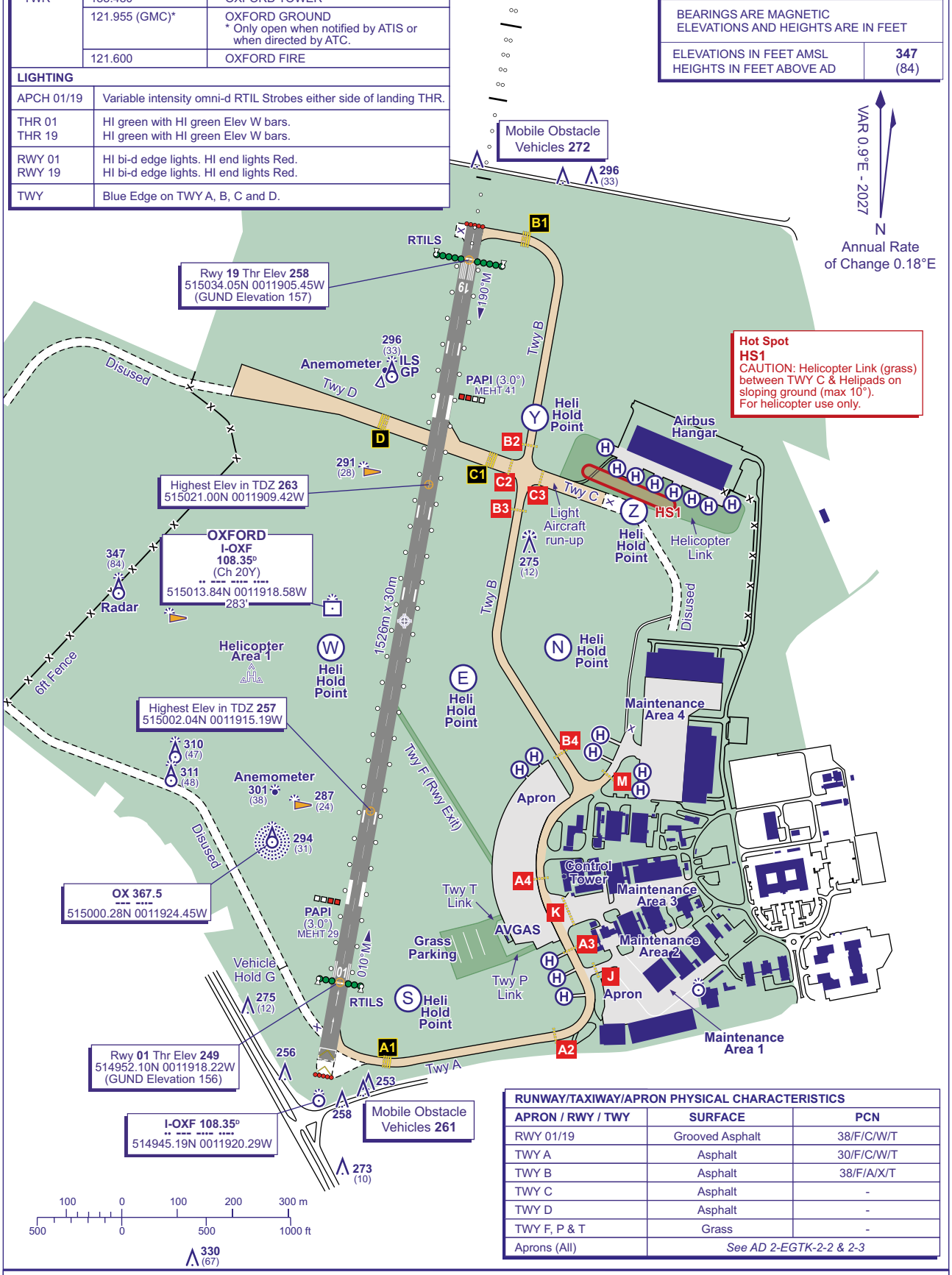
LIGHTING	
APCH 01/19	Variable intensity omni-d RTIL Strobes either side of landing THR.
THR 01 THR 19	HI green with HI green Elev W bars. HI green with HI green Elev W bars.
RWY 01 RWY 19	HI bi-d edge lights. HI end lights Red. HI bi-d edge lights. HI end lights Red.
TWY	Blue Edge on TWY A, B, C and D.

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	347 (84)

VAR 0.9°E - 2027
N
Annual Rate of Change 0.18°E



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	PCN
RWY 01/19	Grooved Asphalt	38/F/C/W/T
TWY A	Asphalt	30/F/C/W/T
TWY B	Asphalt	38/F/A/X/T
TWY C	Asphalt	-
TWY D	Asphalt	-
TWY F, P & T	Grass	-
Aprons (All)	*See AD 2-EGTK-2-2 & 2-3*	

CHANGE (11/25): MAINTENANCE AREA 4 HANGAR EXPANSION. MAG INFO. EDITORIAL.

AERO INFO DATE 18 AUG 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 515013N 0011912W AD ELEV 263FT

OXFORD
EGTK

COM		
ATIS	136.230	OXFORD ATIS
TWR	133.430	OXFORD TOWER
	121.955 (GMC)*	OXFORD GROUND *Only open when notified by ATIS or when directed by ATC.
	121.600	OXFORD FIRE
LIGHTING		
TWY	Blue Edge on TWY A, B, C & D.	

VAR 0.9°E - 2027
N
Annual Rate of Change 0.18°E

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	PCN
Main Apron	Asphalt	-
RWY	See AD 2-EGTK-2-1	
TWY (All)		

STAND	COORDINATE
1	514954.78N 0011859.58W
3	514955.18N 0011859.89W
4	514954.92N 0011901.24W
5	514955.58N 0011900.21W
6	514955.33N 0011901.57W
7	514955.98N 0011900.53W
8	514955.73N 0011901.89W
9	514956.38N 0011900.85W
10	514956.14N 0011902.21W
11	514956.82N 0011901.16W
12	514956.61N 0011902.56W
13	514957.28N 0011901.35W
14	514957.13N 0011902.73W
15	514957.75N 0011901.47W
16	514957.63N 0011902.85W
17	514958.21N 0011901.52W
18	514958.12N 0011902.92W
19	514958.67N 0011901.53W
20	514958.60N 0011902.94W
25	515003.51N 0011859.73W
HELI 1	514951.21N 0011857.17W
HELI 2	514952.24N 0011857.94W
HELI 3	514953.23N 0011858.70W
HELI 4	515004.19N 0011901.04W
HELI 5	515004.96N 0011859.64W
HELI 6	515005.35N 0011854.19W
HELI 7	515006.35N 0011853.47W
HELI 10	515003.11N 0011849.82W
HELI 11	515004.14N 0011849.67W

20 0 20 40 60 80 100 m
40 0 80 160 240 320 ft

CHANGE (11/25): MAINTENANCE AREA 4 EXPANSION. MAG INFO. EDITORIAL.

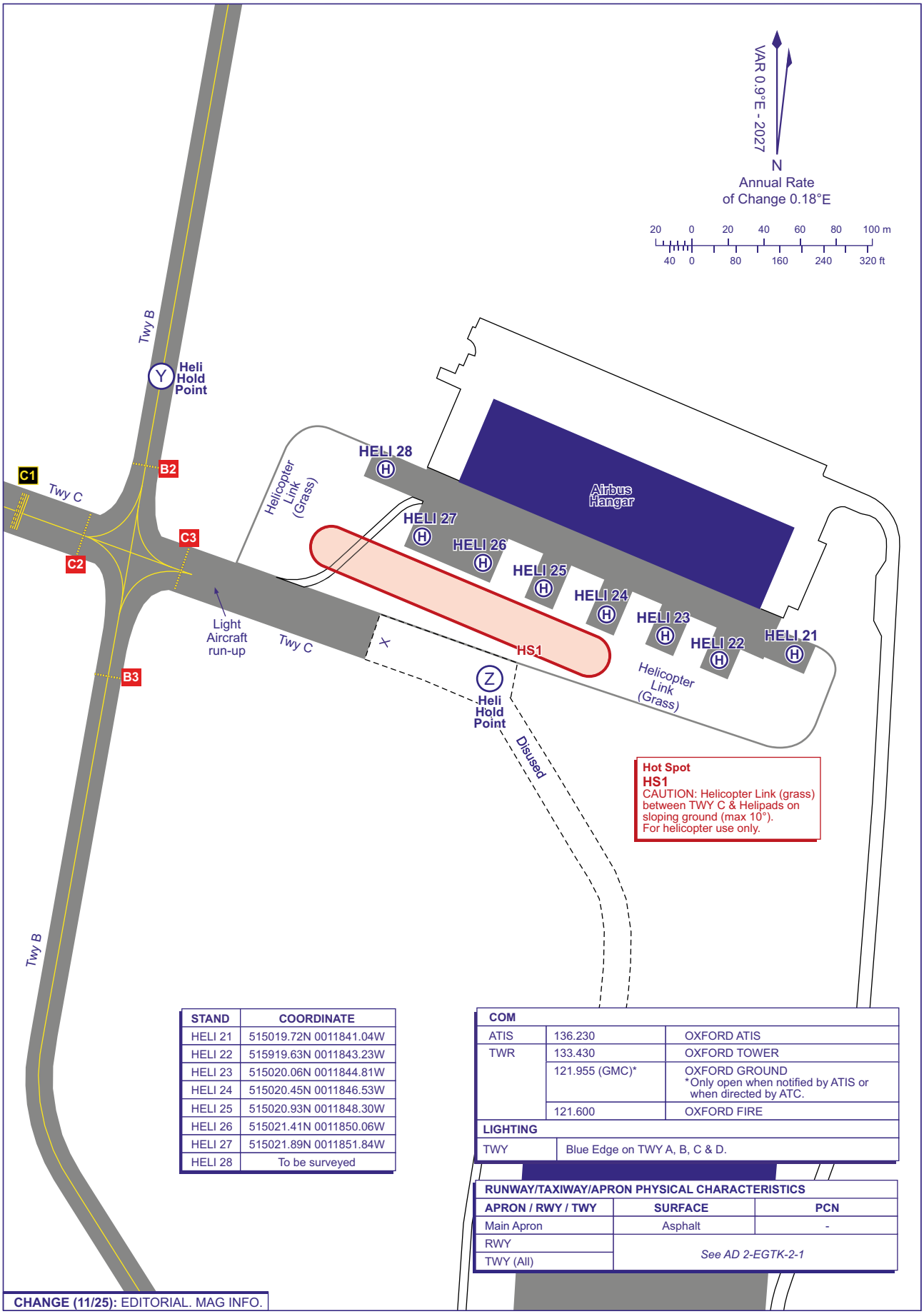
AERO INFO DATE 18 AUG 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 515013N 0011912W

AD ELEV 263FT

OXFORD
EGTK



Hot Spot
HS1
CAUTION: Helicopter Link (grass) between TWY C & Helipads on sloping ground (max 10°).
For helicopter use only.

STAND	COORDINATE
HELI 21	515019.72N 0011841.04W
HELI 22	515919.63N 0011843.23W
HELI 23	515020.06N 0011844.81W
HELI 24	515020.45N 0011846.53W
HELI 25	515020.93N 0011848.30W
HELI 26	515021.41N 0011850.06W
HELI 27	515021.89N 0011851.84W
HELI 28	To be surveyed

COM		
ATIS	136.230	OXFORD ATIS
TWR	133.430	OXFORD TOWER
	121.955 (GMC)*	OXFORD GROUND *Only open when notified by ATIS or when directed by ATC.
	121.600	OXFORD FIRE
LIGHTING		
TWY	Blue Edge on TWY A, B, C & D.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**PCN**
Main Apron	Asphalt	-
RWY	*See AD 2-EGTK-2-1*	
TWY (All)		

CHANGE (11/25): EDITORIAL. MAG INFO.

AERO INFO DATE 18 AUG 25

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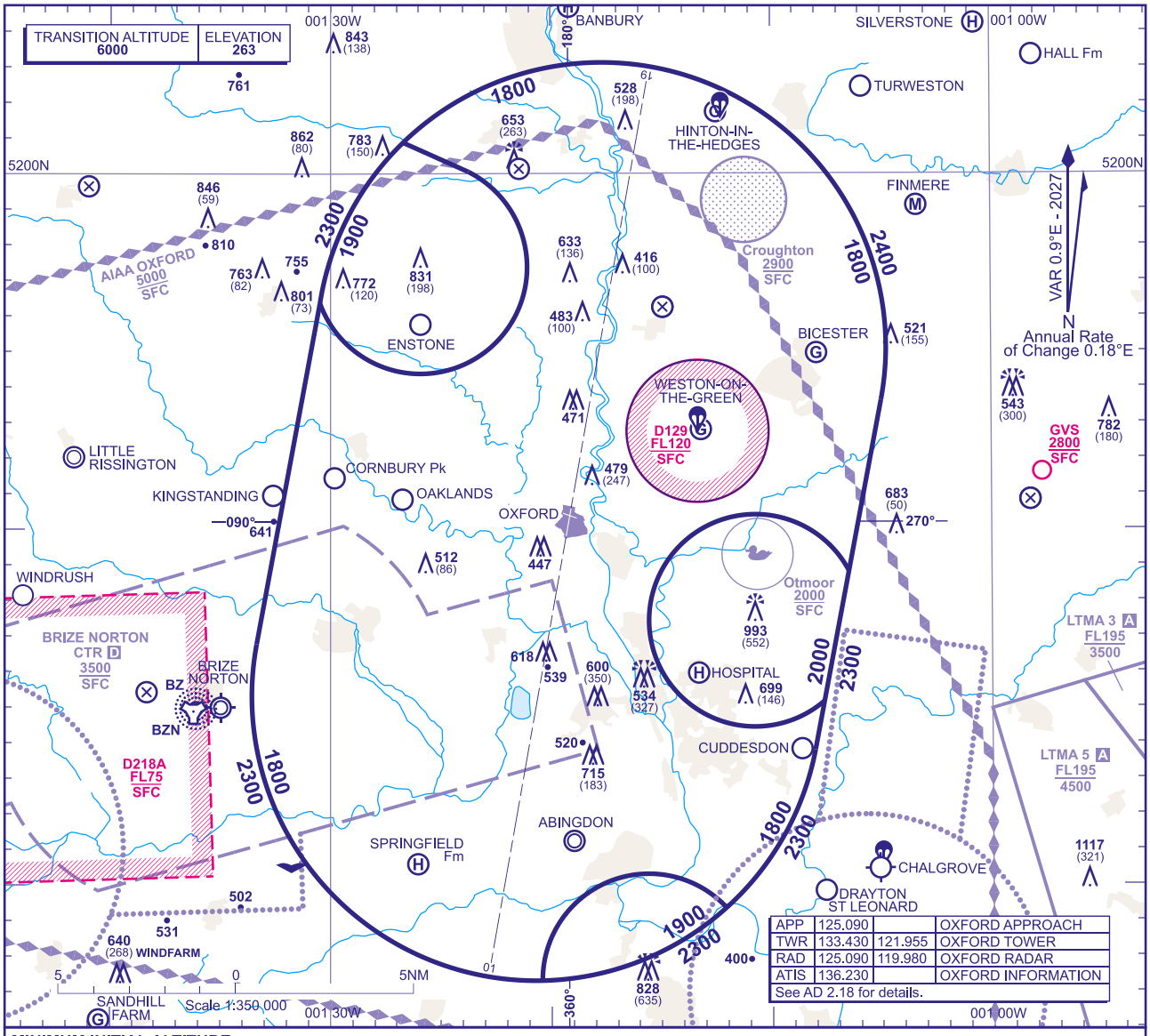
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL **1358**
HEIGHTS IN FEET AGL (800)

OXFORD



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1800** in the sector defined by the lateral limits; 520053N 0012642W thence clockwise by an arc of a circle radius 8NM centred on 515508N 0011742W to 515338N 0010500W - 514850N 0010630W thence anticlockwise by an arc of a circle radius 3NM centred on 514726N 0011045W to 514509N 0010738W - 514349N 0010803W thence clockwise by an arc of a circle radius 8NM centred on 514519N 0012041W to 513922N 0011205W thence anticlockwise by an arc of a circle radius 3NM centred on 513720N 0011537W to 513720N 0012025W thence clockwise by an arc of a circle radius 8NM centred on 514519N 0012041W to 514647N 0013321W - 515622N 0013029W thence anticlockwise by an arc of a circle radius 3NM centred on 515723N 0012555W to 520004N 0012344W - 520053N 0012642W.

b) **2000** in the sector defined by the lateral limits; 514850N 0010630W - 514509N 0010738W thence clockwise by an arc of a circle radius 3NM centred on 514726N 0011045W to 514850N 0010630W.

c) **1900** in the sector defined by the lateral limits; 513720N 0012025W thence clockwise by an arc of a circle radius 3NM centred on 513720N 0011537W to 513922N 0011205W thence clockwise by an arc of a circle radius 8NM centred on 514519N 0012041W to 513720N 0012025W .

d) **1900** in the sector defined by the lateral limits; 520053N 0012642W - 520004N 0012344W thence clockwise by an arc of a circle radius 3NM centred on 515723N 0012555W to 515622N 0013029W - 515636N 0013024W thence clockwise by an arc of a circle radius 8NM centred on 515508N 0011742W to 520053N 0012642W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2200**, or last assigned level if higher, to **NDB(L)DME OX**†.

Intermediate and Final Approach Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L)DME OX**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of OX NDB.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart should only be used for the cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**

CHANGE (11/25): MAG VAR.

AERO INFO DATE 13 AUG 25

AD 2-EGTK-5-1

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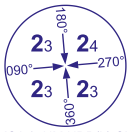
INSTRUMENT APPROACH CHART - ICAO

OXFORD NDB(L) RWY 01
(ACFT CAT A,B,C)

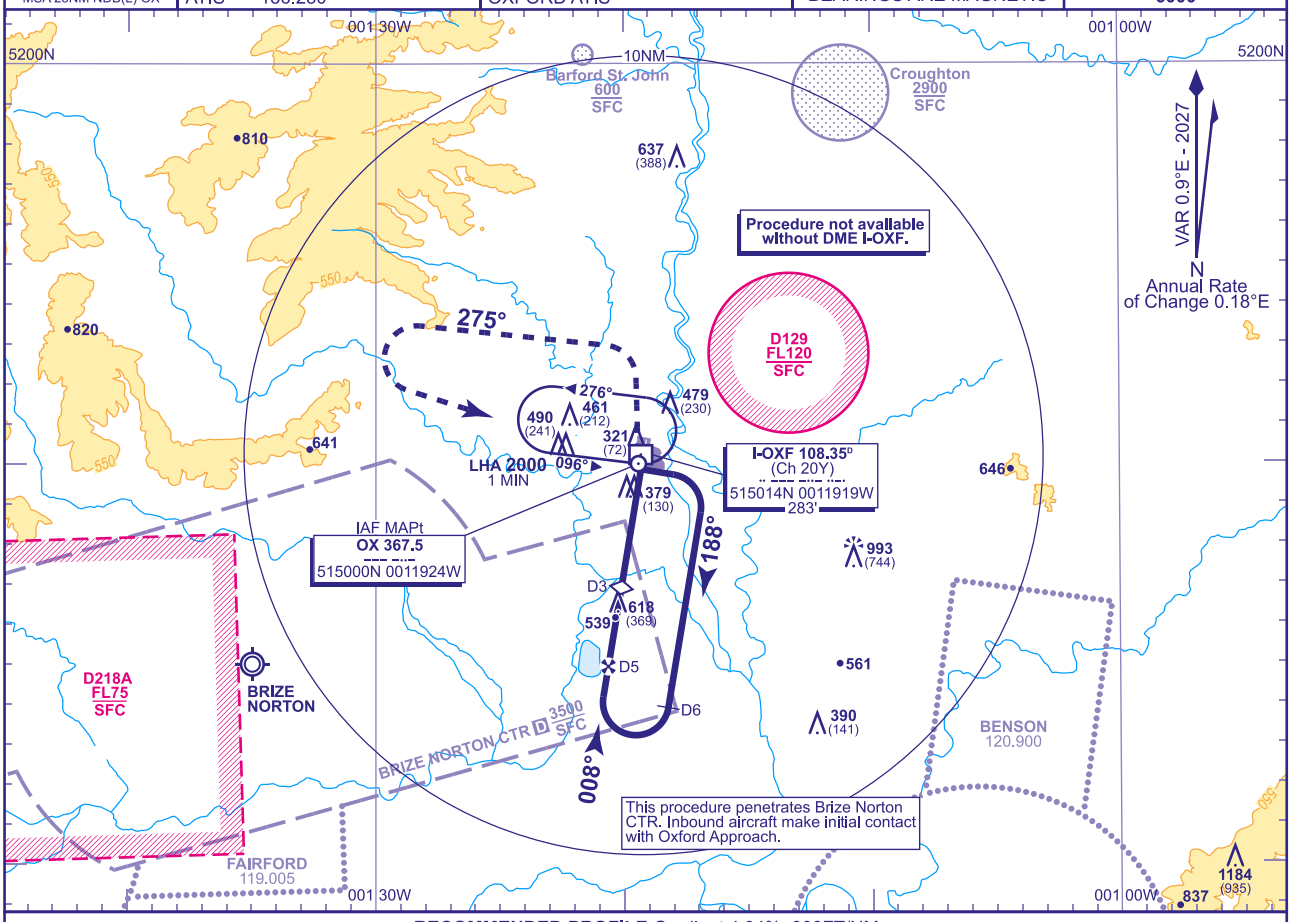


MSA 25NM NDB(L) OX

APP	125.090	OXFORD APPROACH
TWR	133.430	OXFORD TOWER
RAD	125.090	OXFORD RADAR
	119.980	OXFORD DIRECTOR (see note 3)
	121.955	OXFORD GROUND (see note 3)
ATIS	136.230	OXFORD ATIS

AD ELEVATION	263
THR ELEVATION	249
OBSTACLE ELEVATION	1184 AMSL (935) (ABOVE THR)
BEARINGS ARE MAGNETIC	

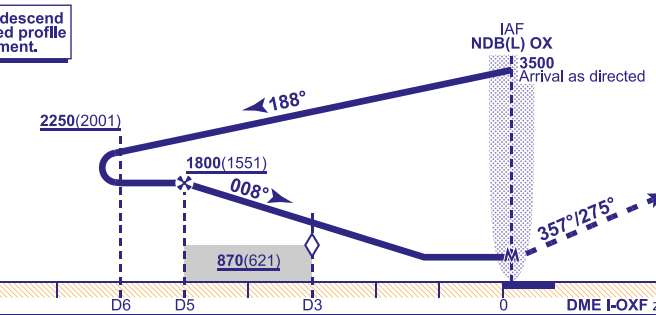
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 4.94%, 300FT/NM

DME I-OXF	5	4	3(SDF)	2
ALT(HGT)	**1800**(1551)	**1480**(1231)	**1180**(931)	**880**(631)

All aircraft should not descend below the recommended profile due to noise abatement.



MAPt NDB(L) OX

Climb on track 357° to **1000** then climbing turn left onto track 275° to **2500** then turn left to **NDB(L) OX** to join hold at **2500**, or as directed.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**700**(451)	**700**(451)	**700**(451)
VM(C)OCA (OCH AAL)	Total Area	**800**(537)	**800**(537)	**1100**(837)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	800	700	600	500	400

NOTE 1 Aircraft will normally be required to hold not lower than **3500** or equivalent FL.
2 Entry into racetrack procedure restricted to Sector 3 entry from inbound leg (096°M) of holding pattern.
3 Only when directed by ATC

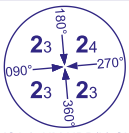
WARNING 1 The established NDB hold is impacted by EGD129 activity. ATC Oxford will co-ordinate the use of the hold in association with the instrument procedures with regard to promulgated activity in EGD129.

CHANGE (11/25): MAG VAR. MAG TRACKS.

AERO INFO DATE 13 AUG 25

INSTRUMENT APPROACH CHART - ICAO

OXFORD ILS/DME/NDB(L) RWY 19 (ACFT CAT A,B,C)

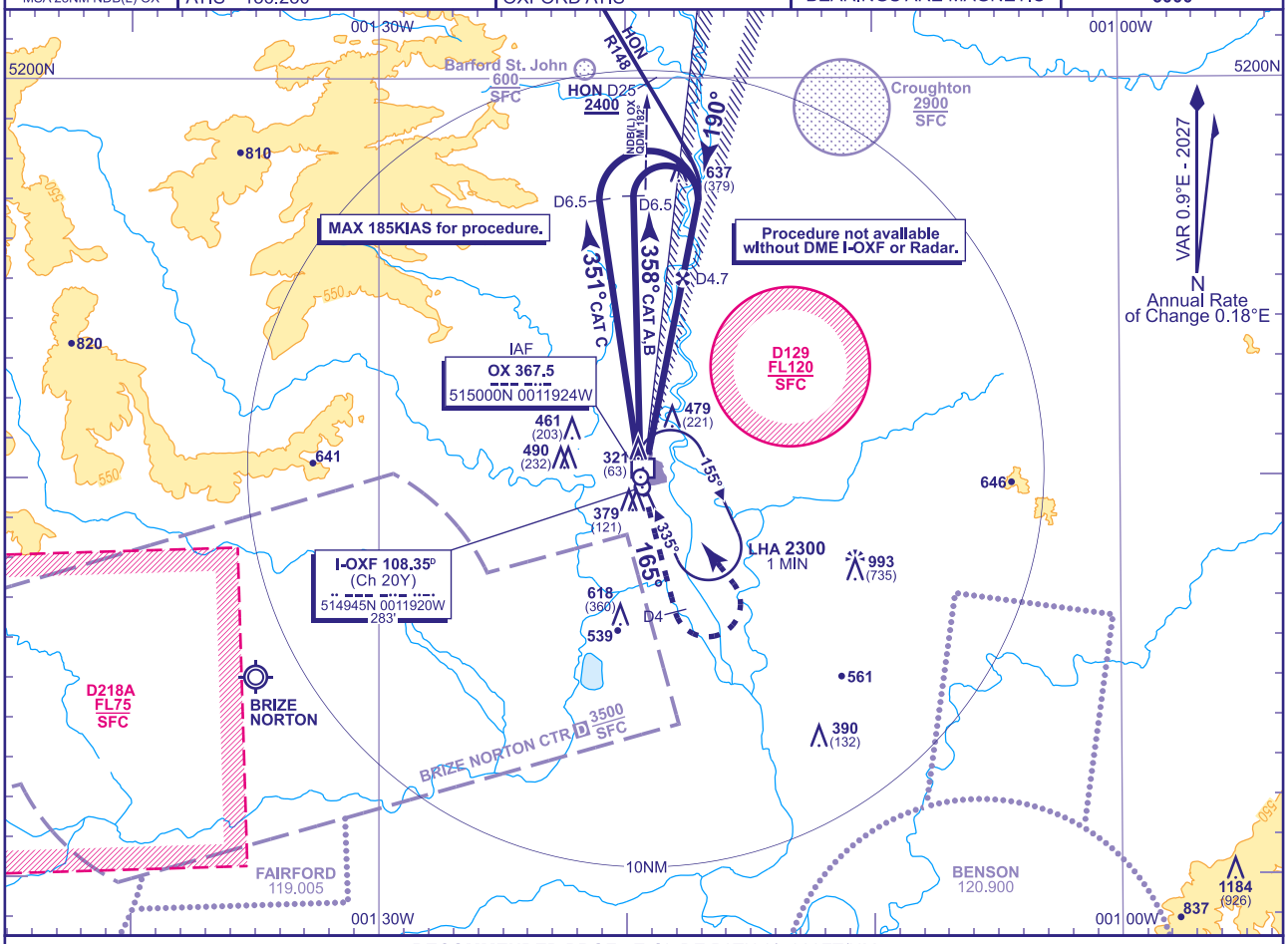


MSA 25NM NDB(L) OX

APP	125.090	OXFORD APPROACH	
TWR	133.430	OXFORD TOWER	
RAD	125.090	OXFORD RADAR	
	119.980	OXFORD DIRECTOR (see note 2)	
	121.955	OXFORD GROUND (see note 2)	
ATIS	136.230	OXFORD ATIS	

AD ELEVATION	263
THR ELEVATION	258
OBSTACLE ELEVATION	1184 AMSL (926) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

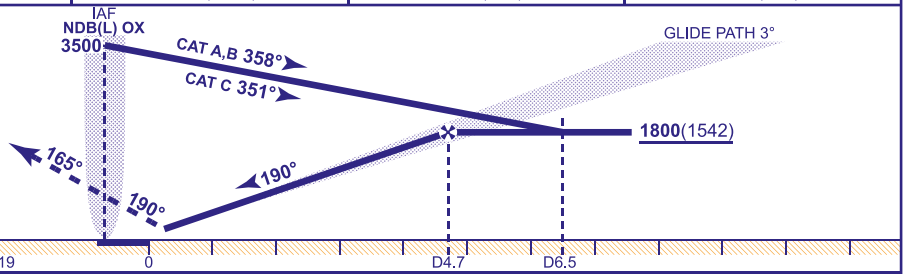


RECOMMENDED PROFILE GLIDE PATH 3°, 320FT/NM

DME I-OXF	4	3	2	1
ALT(HGT)	**1580**(1322)	**1260**(1002)	**940**(682)	**620**(362)

RDH 39

Climb straight ahead to **NDB(L) OX**, on passing **NDB(L) OX** continue climb on QDR 165°. At **I-OXF** DME 4 turn left to hold at **2500**, or as directed.



Aircraft Category		A	B	C
OCA (OCH)	Procedure	**563**(305)	**573**(315)	**583**(325)
VM(C)OCA (OCH AAL)	Total Area	**800**(537)	**800**(537)	**1100**(837)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

DIRECT ARRIVAL VIA VOR HON R148
Intercept and follow VOR HON R148 **not below MSA**. At lead NDB(L) OX QDM 182° (HON DME 25) turn right to establish on localiser. When established descend to cross FAP (I-OXF DME 4.7) at **1800**(1542), then continue as for main procedure.

NOTE
1 Aircraft will normally be required to hold not lower than **3500** or equivalent FL.
2 Only when directed by ATC.
3 ILS/DME is available without NDB if aircraft is radar vectored to final approach.
4 **AIRCRAFT UNABLE TO RECEIVE DME I-OXF**. Advise ATC and continue as for normal procedure. Radar ranges will be provided at D6.5 outbound and at D5 inbound.

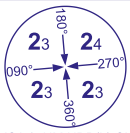
WARNING
1 The established NDB hold is impacted by EGD129 activity. ATC Oxford will co-ordinate the use of the hold in association with the instrument procedures with regard to promulgated activity in EGD129.
2 Auto-coupled approaches are not approved.
3 Pilots may experience glidepath fluctuations within I-OXF DME 1.

CHANGE (11/25): MAG VAR. MAG TRACKS. DIRECT ARRIVAL HON RADIAL REVISED.

AERO INFO DATE 13 AUG 25 AD 2-EGTK-8-2

INSTRUMENT APPROACH CHART - ICAO

OXFORD
LOC/DME/NDB(L)
RWY 19
(ACFT CAT A,B,C)

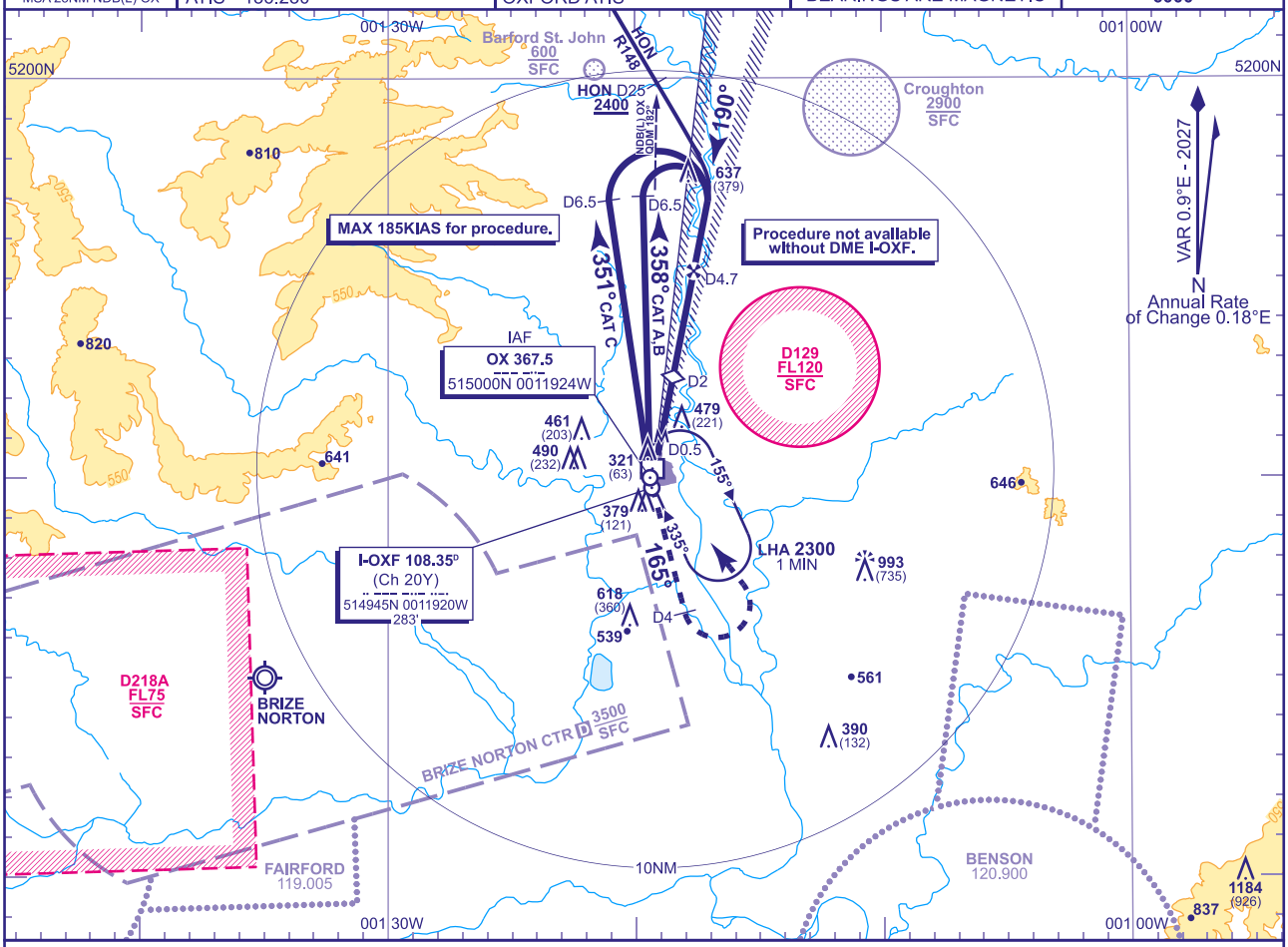


MSA 25NM NDB(L) OX

APP	125.090	OXFORD APPROACH
TWR	133.430	OXFORD TOWER
RAD	125.090	OXFORD RADAR
	119.980	OXFORD DIRECTOR (see note 2)
	121.955	OXFORD GROUND (see note 2)
ATIS	136.230	OXFORD ATIS

AD ELEVATION	263
THR ELEVATION	258
OBSTACLE ELEVATION	1184 AMSL (926) (ABOVE THR)
BEARINGS ARE MAGNETIC	

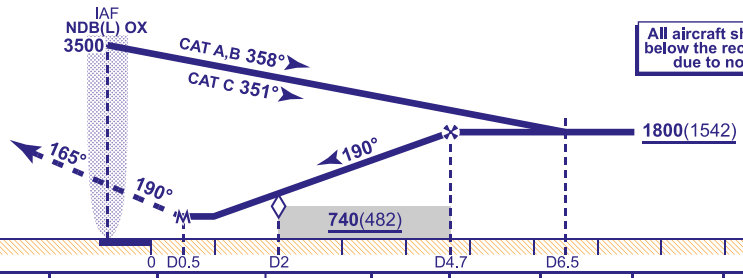
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-OXF	4	3	2 **(SDF)**
ALT(HGT)	**1580**(1322)	**1260**(1002)	**940**(682)

MAPt I-OXF DME 0.5
Climb straight ahead to **NDB(L) OX**, on passing **NDB(L) OX** continue climb on QDR 165°. At **I-OXF** DME 4 turn left to hold at **2500**, or as directed.



All aircraft should not descend below the recommended profile due to noise abatement.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**610**(352)	**610**(352)	**610**(352)
VM(C)OCA (OCH AAL)	Total Area	**800**(537)	**800**(537)	**1100**(837)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	750	640	530	430

DIRECT ARRIVAL VIA VOR HON R148
Intercept and follow VOR HON R148 **not below MSA**. At lead NDB(L) OX QDM 182° (HON DME 25) turn right to establish on localiser. When established descend to cross FAF (I-OXF DME 4.7) at **1800**(1542), then continue as for main procedure.

NOTE **1** Aircraft will normally be required to hold not lower than **3500** or equivalent FL.
2 Only when directed by ATC.

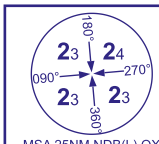
WARNING The established NDB hold is impacted by EGD129 activity. ATC Oxford will co-ordinate the use of the hold in association with the instrument procedures with regard to promulgated activity in EGD129.

CHANGE (11/25): MAG VAR. MAG TRACKS. DIRECT ARRIVAL HON RADIAL REVISED.

AERO INFO DATE 14 AUG 25
AD 2-EGTK-8-3

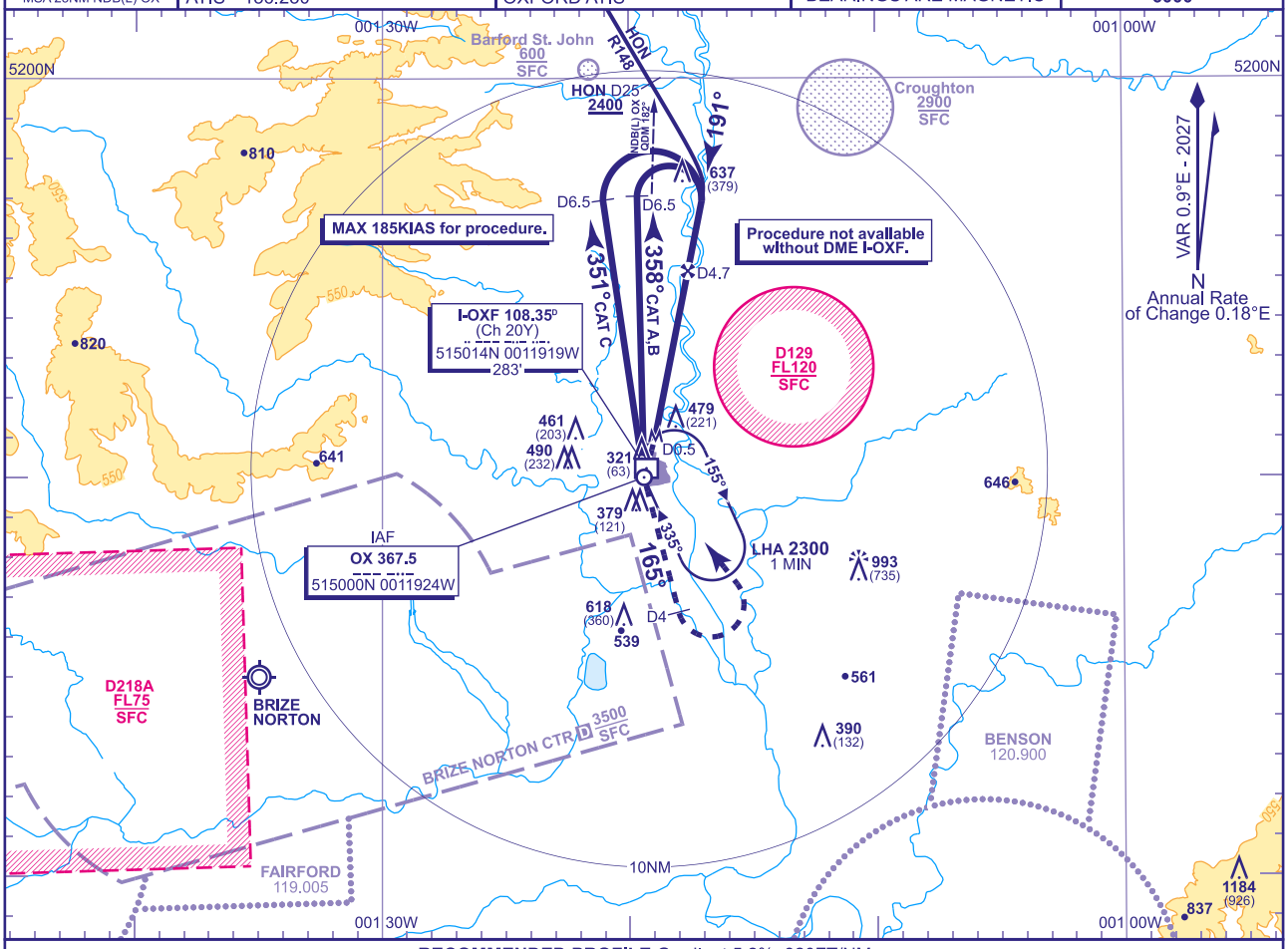
INSTRUMENT APPROACH CHART - ICAO

OXFORD NDB(L) RWY 19
(ACFT CAT A,B,C)



MSA 25NM NDB(L) OX

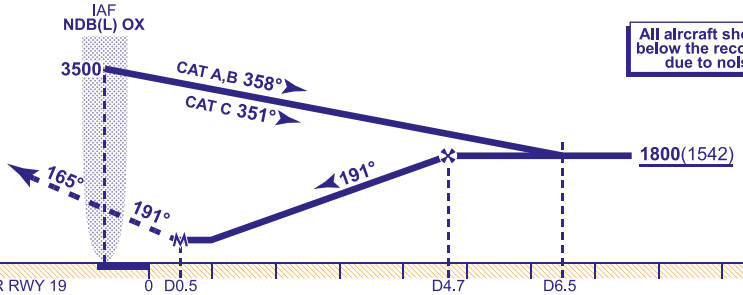
APP	125.090	OXFORD APPROACH	AD ELEVATION	263	
TWR	133.430	OXFORD TOWER	THR ELEVATION	258	
RAD	125.090	OXFORD RADAR	OBSTACLE ELEVATION	1184 AMSL (926) (ABOVE THR)	
	119.980	OXFORD DIRECTOR (see note 2)			
	121.955	OXFORD GROUND (see note 2)			
ATIS	136.230	OXFORD ATIS	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME I-OXF	4	3	2 **(SDF)**
ALT(HGT)	**1580**(1322)	**1260**(1002)	**940**(682)

MAPt I-OXF DME 0.5
Climb straight ahead to **NDB(L) OX**, on passing **NDB(L) OX** continue climb on QDR 165°. At **I-OXF** DME 4 turn left to NDB(L) OX climbing as necessary to hold at **2500**, or as directed.



All aircraft should not descend below the recommended profile due to noise abatement.

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**750**(492)	**750**(492)	**750**(492)
VM(C)OCA (OCH AAL)	Total Area	**800**(537)	**800**(537)	**1100**(837)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	750	640	530	430

DIRECT ARRIVAL VIA VOR HON R148
Intercept and follow VOR HON R148 **not below MSA**. At lead NDB(L) OX QDM 182° (HON DME 25) turn right to establish on extended FAT (NDB(L) OX QDM 191°). When established descend to cross FAF (I-OXF DME 4.7) at **1800**(1542), then continue as for main procedure.

NOTE **1** Aircraft will normally be required to hold not lower than **3500** or equivalent FL.
2 Only when directed by ATC.

WARNING The established NDB hold is impacted by EGD129 activity. ATC Oxford will co-ordinate the use of the hold in association with the instrument procedures with regard to promulgated activity in EGD129.

CHANGE (11/25): MAG VAR. MAG TRACKS. DIRECT ARRIVAL HON RADIAL REVISED.

AERO INFO DATE 11 AUG 25 AD 2-EGTK-8-4

EGEP — PAPA WESTRAY

EGEP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEP — PAPA WESTRAY

EGEP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 592104N Long: 0025401W
2	Direction and distance from city	22 NM N of Kirkwall Airport
3	Elevation / Reference temperature / Mean Low Temperature	92 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.46°W (2027) / 0.22°E
6	AD Administration Address Telephone Telefax E-mail address	ORKNEY ISLANDS COUNCIL. Council Offices, Kirkwall, Orkney Islands, KW15 1NY, Scotland. 01856-873535 01856-876094 developmentandinfrastructure@orkney.gov.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGEP AD 2.3 OPERATIONAL HOURS

1	AD Administration	Daylight hours only, subject to PPR .
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR, a valid indemnity is required. Full details of landing fees and rules for airfield users can be found on the Orkney Islands Council website: http://www.orkney.gov.uk/Service-Directory/T/airfields.htm

EGEP AD 2.4 HANDLING SERVICES AND FACILITIES

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EGEP AD 2.5 PASSENGER FACILITIES

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EGEP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGEP AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations. No snow clearing facilities available. During winter months pilots are advised to contact the Airfield Superintendent for the latest runway conditions. Tel: 01856-873535.

EGEP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Macadam
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGEP AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGEP AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
35/APPROACH 17/TAKE-OFF	War Memorial	592056.37N 0025359.84W	117 FT		No	
03/APPROACH 21/TAKE-OFF	Farm Shed Ridge Line	592050.20N 0025408.29W	109 FT		No	
35/APPROACH 17/TAKE-OFF	Farm House Chimney	592049.33N 0025359.40W	126 FT		No	
35/APPROACH 17/TAKE-OFF	Farm House Chimney	592048.90N 0025400.41W	126 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGEP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGEP AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
03	028.20°	527 x 18 M	RWY surface: Graded Hardcore	592056.18N 0025408.70W	THR 86.2 FT	
21	208.20°	527 x 18 M	RWY surface: Graded Hardcore	592110.35N 0025353.82W	THR 89.0 FT	
06	058.16°	293 x 18 M	RWY surface: Grass/Graded Hardcore	592104.73N 0025406.71W	THR 78.5 FT	
24	238.16°	293 x 18 M	RWY surface: Grass/Graded Hardcore	592109.03N 0025353.15W	THR 89.2 FT	
17	170.37°	406 x 30 M	RWY surface: Grass	592111.51N 0025403.03W	THR 77.9 FT	
35	350.37°	406 x 30 M	RWY surface: Grass	592101.16N 0025359.59W	THR 92.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 03
						RWY 21 Starter extension of 30 M.
						RWY 06
						RWY 24 Starter extension of 31 M.
						RWY 17 Starter extension of 42 M.
						RWY 35 Starter extension of 27 M.

EGEP AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	497 M	497 M	497 M	497 M	
21	527 M	527 M	527 M	497 M	TORA, TODA, and ASDA include a 30 M starter extension.
17	367 M	367 M	367 M	325 M	TORA, TODA and ASDA include a 42 M starter extension.
35	352 M	352 M	352 M	325 M	TORA, TODA and ASDA include a 27 M starter extension.
06	252 M	252 M	252 M	252 M	
24	283 M	283 M	283 M	252 M	TORA, TODA and ASDA include a 31 M starter extension.

EGEP AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
21		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
17		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
35		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		

EGEP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 592105.34N 0025353.37W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGEP AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF 1: 592104.18N 0025356.82W
2	TLOF and/or FATO elevation	TLOF 1: 88.7 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGEP AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGEP AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

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EGEP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGEP AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Contact with Kirkwall Approach is recommended.
b) All GA aircraft must park only on the clearly designated grass GA APRON. GA aircraft must not park on the main tarmac apron.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Visiting pilots should note that during periods of prolonged rainfall the grass runway can become very soft especially during the winter months.
b) **Runway 03/21:** Graded hardcore runway is generally unsuitable for light aircraft with low ground/propeller clearance due to unstabilised surface and as a result it would be advisable to carry out any power checks on the tarmac apron before departure.
c) No private (non-commercial) flights are permitted within 15 minutes of any scheduled airline movement.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) While arriving or departing from Runway 03 for approximately 90 M, the 21 threshold is not visible and when arriving or departing Runway 21 for approximately 350 M the 03 threshold is not visible.

7 TRAINING

Not applicable

EGEP AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGEP AD 2.22 FLIGHT PROCEDURES

Not applicable

EGEP AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGEP AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEP-2-1

EGEP AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

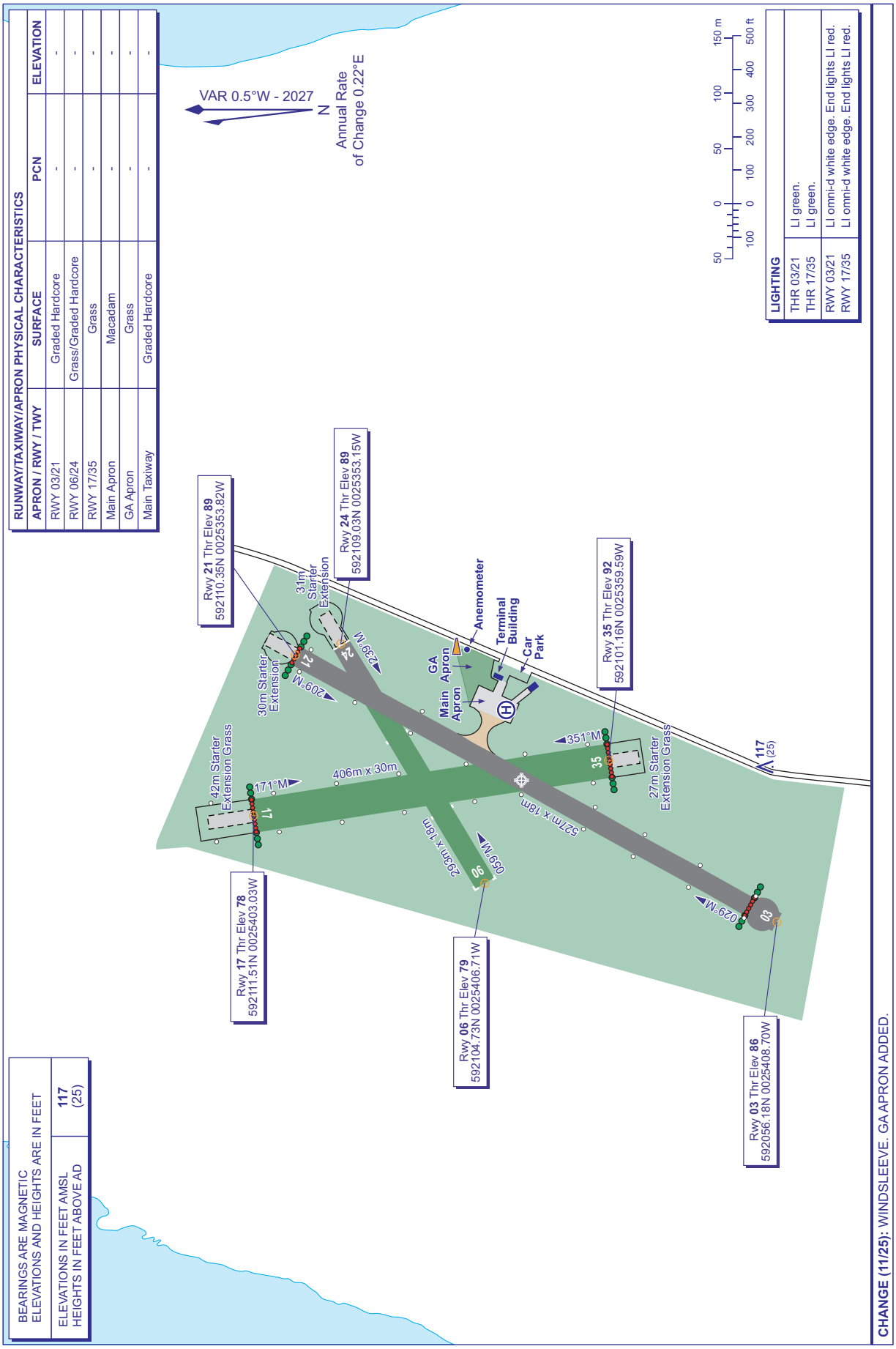
AERODROME CHART - ICAO

PAPA WESTRAY EGEP

AD ELEV 92FT

ARP 592104N 0025401W

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 03/21	Graded Hardcore	-	-
RWY 06/24	Grass/Graded Hardcore	-	-
RWY 17/35	Grass	-	-
Main Apron	Macadam	-	-
GA Apron	Grass	-	-
Main Taxiway	Graded Hardcore	-	-



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EGPT — PERTH/SCONE

EGPT AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPT — PERTH/SCONE

EGPT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 562628N Long: 0032226W centre of the longest runway 03/21
2	Direction and distance from city	3 NM NE of Perth.
3	Elevation / Reference temperature / Mean Low Temperature	395 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	172 FT
5	Magnetic Variation / Annual Change	0.30°W (2027) / 0.20°E
6	AD Administration Address Telephone Telefax E-mail address	ACS AVIATION LTD. Hangar 3, Perth Airport, Scone, Perth, PH2 6PL. 01738-551631 (Radio Room) 01738-550003 (Admin) 01738-554846 ops@acsaviation.com tower@perthairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGPT AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600); and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. Preferred method online http://perthairport.co.uk/pilot-information/ppr-requests

EGPT AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80, W100.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGPT AD 2.5 PASSENGER FACILITIES

1	Hotels	On aerodrome.
2	Restaurants	Restaurant and Cafe on aerodrome.
3	Transportation	Buses, taxis and car hire.

4	Medical facilities	
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGPT AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGPT AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Limited snow clearing.
2	Clearance priorities	
3	Remarks	

EGPT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway B: Surface: Asphalt Taxiway C: Surface: Asphalt
3	Altimeter checkpoint location and elevation	Main Apron 385 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPT AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Windsleeves: 562617.82N 0032218.47W - 562635.67N 0032208.58W

EGPT AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPT3352) 33/APPROACH 15/ TAKE-OFF	TREE	562608.12N 0032152.47W	430 FT		No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGPT AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGPT AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
03	028.34°	853 x 27 M	RWY surface: Asphalt	562615.91N 0032237.88W 171.9 FT	THR 390.4 FT	
21	208.34°	853 x 27 M	RWY surface: Asphalt	562640.19N 0032214.24W 171.9 FT	THR 386.2 FT	
09	088.29°	609 x 22 M	RWY surface: Asphalt	562615.46N 0032228.78W 171.9 FT	THR 391.8 FT	
27	268.29°	609 x 22 M	RWY surface: Asphalt	562615.91N 0032201.60W 171.9 FT	THR 387.6 FT	
15	149.48°	622 x 36 M	RWY surface: Grass	562632.47N 0032215.16W 171.9 FT	THR 393.7 FT	
33	329.49°	622 x 36 M	RWY surface: Grass	562615.13N 0032156.71W 171.9 FT	THR 385.6 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 03
						RWY 21
						RWY 09 Threshold displaced by 143 M.
	143 x 150 M					RWY 27
						RWY 15
						RWY 33

EGPT AD 2.13 DECLARED DISTANCES

Runway designator	**TORA**	**TODA**	**ASDA**	**LDA**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
03	853 M	853 M	853 M	853 M	
21	853 M	853 M	853 M	853 M	
15	622 M	622 M	622 M	622 M	
33	622 M	622 M	622 M	622 M	

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	609 M	609 M	609 M	466 M	
27	466 M	609 M	609 M	609 M	

EGPT AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03		Green Light intensity low	PAPI Left/3° 18 FT			Light intensity low	Red		
21		Green Light intensity low	PAPI Left/3° 18 FT			Light intensity low	Red		
09						Light intensity low			
27						Light intensity low			

EGPT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	CL: Link B green centre-line.
4	Secondary power supply/switch-over time	
5	Remarks	Pilot controlled lighting available RWY 03/21 and PAPIs. 5 clicks within 5 seconds on 121.080 MHz, brings lights on for 10 minutes.

EGPT AD 2.16 HELICOPTER LANDING AREA

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EGPT AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
PERTH/SCONE ATZ A circle, 2 NM radius, centred at 562628N 0032226W on longest notified runway (03/ 21)	Upper limit: 2000 FT AGL Lower limit: SFC	G	PERTH RADIO English	3000 FT		The Dundee Category C instrument approach penetrates the Perth ATZ (when active) at 1800 FT agl.

EGPT AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	PERTH RADIO	121.080 A/G frequency.			0900-1700 (0800-1600).	ATZ hours coincident with A/G hours.

EGPT AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGPT AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) This aerodrome is not available to aircraft unable to communicate by radio.

2 GROUND MOVEMENT

Not applicable.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) When taking-off from Runway 27 there may be severe downdraughts and turbulence in the vicinity of the line of trees that form an obstacle across the runway centre-line at 910 m beyond the start of TORA.
b) When landing on Runway 03 with the wind from the northwest quadrant, turbulence can be expected from the tree line during the final phase of approach.
c) Hills running NE - SW, rising to 918 ft amsl within 2 nm and to 1236 ft amsl within 5 nm to NE.
d) Agricultural vehicles may cross runways.

5 HELICOPTER OPERATIONS

Not applicable.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

Not applicable.

EGPT AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable.

EGPT AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit directions: Runways 03, 09 and 15 - LH; Runways 21, 27 and 33 - RH.

EGPT AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGPT AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPT-2-1

EGPT AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 562628N 0032226W

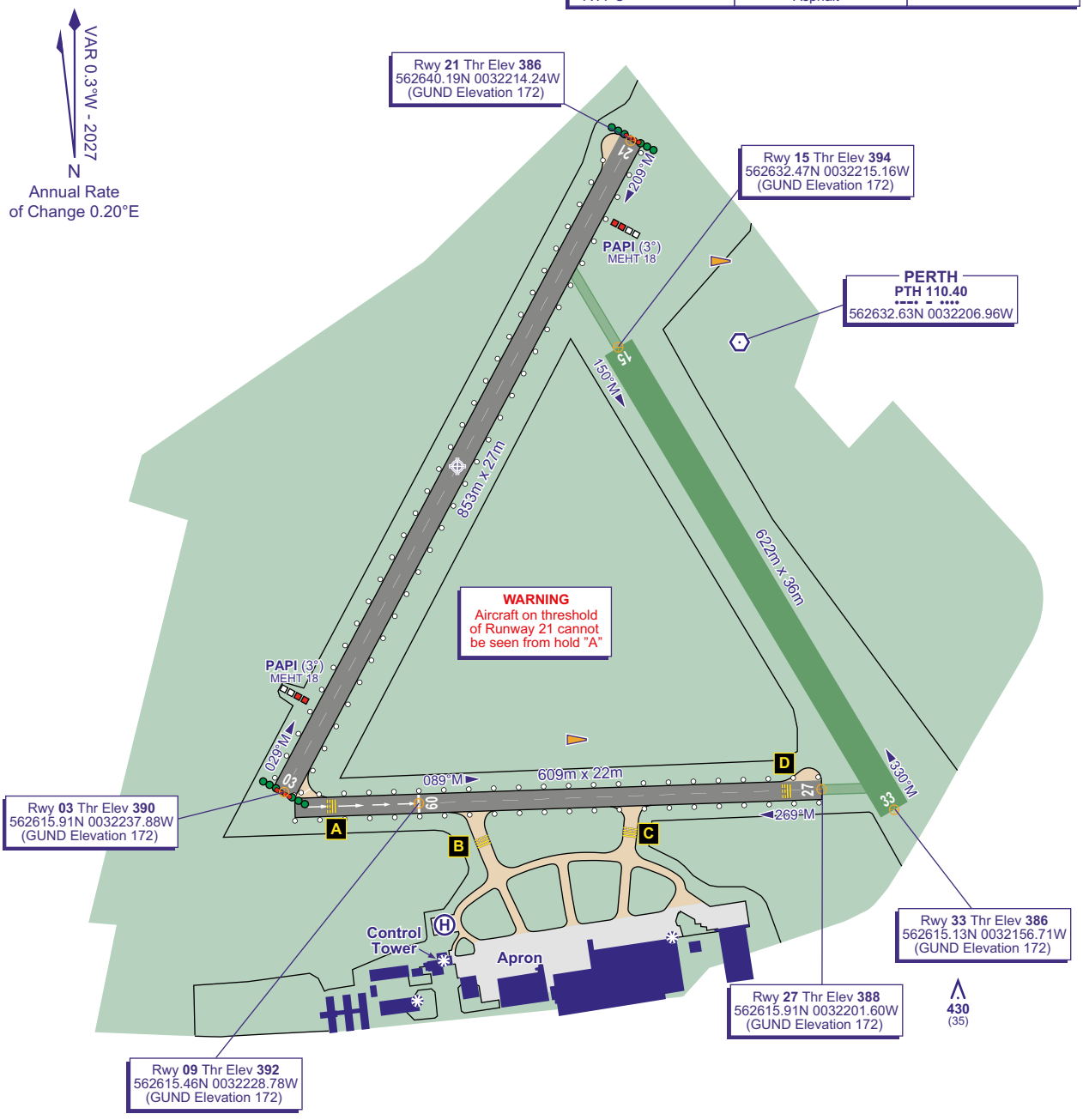
AD ELEV 395FT

PERTH/SCONE
EGPT

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL **430** HEIGHTS IN FEET ABOVE AD (35)

50 0 50 100 150m
100 0 300 500ft

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	PCN
RWY 03/21	Asphalt	-
RWY 09/27	Asphalt	-
RWY 15/33	Grass	-
Main Apron 385' AMSL	Asphalt	-
TWY B	Asphalt	-
TWY C	Asphalt	-



COM		
A/G	121.080	PERTH RADIO
LIGHTING		
THR 03/21	LI Green.	
RWY 03/21 RWY 09/27	LI Edge. End lights Red. LI Edge.	
TWY	Link Bravo: Green C/L.	

CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 22 JUL 25

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EGPK — PRESTWICK

EGPK AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPK — PRESTWICK

EGPK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 553034N Long: 0043540W Mid point of Runway 12/30.
2	Direction and distance from city	1 NM NE of Prestwick.
3	Elevation / Reference temperature / Mean Low Temperature	65 FT / 16 °C / -
4	Geoid undulation at AD ELEV PSN	179 FT
5	Magnetic Variation / Annual Change	1.64°W (2022) / 0.22°E
6	AD Administration Address Telephone	GLASGOW PRESTWICK AIRPORT LTD. Aviation House, Prestwick, Scotland KA9 2PL. 01292-511107 (ATC Operations) 01292-511108 (AFS) 0871-2230700 (Switchboard) 01292-511190 (Airfield Ops)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPK AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	Available via handling agent.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	Available via handling agent.
7	ATS	H24 See also AD 2.18.
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Additionally, for all aircraft inbound to HMS Gannet: Tel: 01292-674217. Unmanned UNICOM Gannet Ops 375.7 MHz. PPR is mandatory. Minimum of 72 hours in advance. Office open and manned Mon-Fri 0800-1600 (0700-1500).

EGPK AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Full mechanical facilities. (Single piece 30 tonnes, heavier loads by arrangement). Bonded storage facilities available.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL Available
3	Fuelling facilities/capacity	1400 LT per minute - AVTUR JET A-1, 2.1 million LT. AVGAS, 54,000 LT.
4	De-icing facilities	KILFROST ABC K+ Type 2 with 75/25 mix.
5	Hangar space for visiting aircraft	Limited. Prior notification required.
6	Repair facilities for visiting aircraft	Limited. Prior notification required.
7	Remarks	Handling is mandatory for all aircraft. Handling agent/Fixed Base Operator is: Prestwick Aviation Services: Tel: 01292-511333; SITA: PIKOWXH/PIKAPXH; e-mail: pikops@glasgowprestwick.com; Frequency: 129.700 MHz; Available H24.

EGPK AD 2.5 PASSENGER FACILITIES

1	Hotels	Available locally.
2	Restaurants	Restaurants and bars in the town of Prestwick.
3	Transportation	Buses and taxis. Nearest railway station: Prestwick International.
4	Medical facilities	First Aid Treatment.
5	Bank and Post Office	Cash dispenser in terminal building.
6	Tourist Office	Ayr.
7	Remarks	Full disabled facilities for passenger handling.

EGPK AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7 For higher categories contact ATC Operations, Tel: 01292-511107. Fax: 01292-475464. RFF Category 8 and 9 available at short notice.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited.
4	Remarks	

EGPK AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical and anti-icing.
2	Clearance priorities	Runway 12/30, Taxiways, Aprons, Runway 02/20.
3	Remarks	Latest information from Clearance Programme Tel: 01292-511107.

EGPK AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	A Surface: Concrete and asphalt PCN 100/R/C/W/T B Surface: Concrete and asphalt PCN 100/R/C/W/T C Surface: Concrete and asphalt PCN 50/R/A/X/U F Surface: Concrete and asphalt PCN 50/R/A/X/U G Surface: Concrete and asphalt PCN 30/R/B/X/U H Surface: Concrete and asphalt PCN 50/R/A/X/U PARKING PAD 1 Surface: Concrete PCN 87/R/D/W/T PARKING PAD 2 Surface: Concrete PCN 81/R/C/W/T
2	Taxiway width, surface and strength	Taxiway JULIETT: 23 M Surface: Concrete and asphalt PCN 65/R/C/W/T Taxiway ROMEO: 23 M Surface: Concrete and asphalt PCN 65/R/C/W/T Taxiway SIERRA: 23 M Surface: Asphalt PCN 60/F/B/X/U
3	Altimeter checkpoint location and elevation	Apron 30 FT amsl
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	

EGPK AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	AGNIS, PAPA on stands 1A-4, 7 and 8. Stands 5, 6, 9, 10 and 11 under marshaller's instructions. Aircrews are to note that the Stand Entry Guidance (SEG) is activated by Airline and Handling Agent staff. Aircrew should not enter the stand unless the AGNIS is illuminated or if advised that it is unserviceable, under marshaller's guidance only. An emergency stop sign has also been installed on all SEG equipped stands. When activated an electronic flashing 'STOP' warning sign is illuminated. Aircraft must not enter the stand under any circumstances until the sign has been switched off.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 02/20: Runway 02: Runway designation, runway threshold, runway centre-line and strip markings. Runway 20: Runway designation, runway threshold, runway centre-line and strip markings. Revised ICAO aiming point and touchdown zone markings. 12/30: Runway designation, runway threshold, runway centre-line and strip markings. Revised ICAO aiming point and touchdown zone markings.

		Runway light(s): 02: Runway guard lights, runway edge, threshold and wing bars, runway end. 20: Runway guard lights, runway edge, threshold and wing bars, runway end, stopway. 12/30: Runway guard lights (LED), colour coded runway centre-line, runway edge, threshold and wing bars, runway end (LED). Taxiway marking aid(s): Yellow taxiway centre-line, taxiway holding position, runway ahead markings. Enhanced taxiway centre-line markings approaching Romeo 1. Taxiway light(s): Green centre-line LED lights, blue edge lights on turns, blue retro/reflective edge markings/studs.
3	Stop bars and runway guard lights (if any)	At Holds; J, K, Q (LED), R1 (LED), S, W and Y.
4	Other runway protection measures	
5	Remarks	WDI (LGTD): 553038.45N 0043505.08W; 553056.94N 0043632.72W; 552919.19N 0043507.01W; 553006.29N 0043445.98W. Standard apron markings.

EGPK AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPK3286) 20/APPROACH 02/ TAKE-OFF	TREE	553144.66N 0043255.07W	317 FT	63 FT	No	
(EGPK3209) 20/APPROACH 02/ TAKE-OFF	TREE	553132.14N 0043313.78W	298 FT	49 FT	No	
(EGPK3231) 20/APPROACH 02/ TAKE-OFF	TREE	553129.96N 0043309.63W	318 FT	48 FT	No	
(EGPK1424) 30/TAKE-OFF	ROAD SIGN	553059.12N 0043704.17W	45 FT	15 FT	No	
(EGPK2670) 20/APPROACH 02/ TAKE-OFF	TREE	553057.76N 0043410.21W	181 FT	61 FT	No	
(EGPK2757) 20/APPROACH 02/ TAKE-OFF	TREE	553038.28N 0043403.87W	154 FT	50 FT	No	
(EGPK2623) 20/APPROACH 02/ TAKE-OFF	TREE	553034.79N 0043411.13W	134 FT	62 FT	No	
(EGPK2469) 20/APPROACH 02/ TAKE-OFF	TREE	553034.07N 0043422.75W	112 FT	51 FT	No	
(EGPK2439) 20/APPROACH 02/ TAKE-OFF	FENCE	553017.74N 0043423.77W	76 FT	9 FT	No	
(EGPK2395) 20/APPROACH 02/ TAKE-OFF	FENCE	553015.09N 0043425.81W	77 FT	8 FT	No	
(EGPK2378) 20/APPROACH 02/ TAKE-OFF	FENCE	553014.05N 0043426.60W	77 FT	8 FT	No	
(EGPK3055) 30/APPROACH	TREE	553001.89N 0043340.01W	137 FT	24 FT	No	
(EGPK2391) 30/APPROACH	TREE	553001.86N 0043425.19W	99 FT	38 FT	No	
(EGPK2449) 30/APPROACH	TREE	553000.44N 0043422.10W	106 FT	49 FT	No	
(EGPK3047) 30/APPROACH 12/ TAKE-OFF	SILO	552948.76N 0043339.97W	141 FT	42 FT	No	
(EGPK3392) 30/APPROACH 12/ TAKE-OFF	BUILDING	552938.28N 0043221.48W	231 FT	23 FT	No	
(EGPK3293) 30/APPROACH 12/ TAKE-OFF	BUILDING	552927.89N 0043244.13W	232 FT	25 FT	No	
(EGPK1811) 20/TAKE-OFF	TREE	552851.69N 0043541.72W	106 FT	41 FT	No	
(EGPK1887) 20/TAKE-OFF	TREE	552850.56N 0043536.45W	111 FT	43 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPK1880) 20/TAKE-OFF	TREE	552850.52N 0043536.87W	107 FT	40 FT	No	
(EGPK1908) 20/TAKE-OFF	TREE	552850.16N 0043535.43W	107 FT	38 FT	No	
(EGPK1845) 20/TAKE-OFF	AERIAL	552849.94N 0043539.44W	102 FT	32 FT	No	
(EGPK1938) 20/TAKE-OFF	TREE	552849.69N 0043534.14W	107 FT	38 FT	No	
(EGPK1878) 20/TAKE-OFF	LAMP POST	552838.63N 0043536.20W	124 FT	37 FT	No	
(EGPK1800) 20/TAKE-OFF	TREE	552837.52N 0043541.71W	144 FT	77 FT	No	
(EGPK1863) 20/TAKE-OFF	TREE	552834.75N 0043537.19W	143 FT	84 FT	No	
(EGPK3845) 30/APPROACH	FLOODLIGHT	552717.81N 0042512.75W	627 FT	104 FT	No	
(EGPK3802) 30/APPROACH	PYLON	552701.55N 0042626.91W	607 FT	149 FT	No	
(EGPK3924) 30/APPROACH	PYLON	552527.14N 0042305.80W	751 FT	165 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPK1765)	MAST	553330.85N 0043605.10W	674 FT	195 FT	Yes Red	
	CRANE	552812N 0043821W	197 FT	197 FT	No	
(EGPK3710)	TREE	552438.72N 0042837.64W	714 FT	39 FT	No	
(EGPK3592)	PYLON	552438.52N 0043010.31W	729 FT	66 FT	No	
(EGPK1188)	MAST	552434.58N 0044158.62W	1017 FT	147 FT	Yes Red	
(EGPK1187)	MAST	552434.09N 0044200.47W	1057 FT	178 FT	Yes Red	
(EGPK1183)	MAST	552433.93N 0044202.61W	1056 FT	178 FT	Yes Red	
(EGPK1161)	BUSH	552420.59N 0044236.99W	829 FT	5 FT	No	
(EGPK1191)	TERRAIN	552359.08N 0044151.84W	773 FT	0 FT	No	
(EGPK1166)	TERRAIN	552358.27N 0044225.57W	797 FT	0 FT	No	
(EGPK3566)	PYLON	552318.21N 0043026.07W	723 FT	126 FT	No	

EGPK AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 24 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	Via Handling Agent.
8	Supplementary equipment available for providing information	Via Handling Agent.
9	ATS units provided with information	PRESTWICK
10	Additional information (limitation of service, etc.)	

EGPK AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
02	023.74°	1906 x 45 M	RWY surface: Asphalt PCN 60/F/C/X/U	552918.17N 0043514.61W 179.2 FT	THR 48.2 FT TDZ 48.2 FT	
20	203.75°	1906 x 45 M	RWY surface: Asphalt PCN 60/F/C/X/U SWY surface: PCN 35/F/C/X/T	553012.19N 0043432.76W 179.1 FT	THR 60.4 FT TDZ 60.4 FT	
12	121.33°	2987 x 45 M	RWY surface: Concrete and asphalt PCN 90/R/C/W/T	553054.82N 0043641.31W 179.2 FT	THR 37.8 FT TDZ 37.8 FT	
30	301.36°	2987 x 45 M	RWY surface: Concrete and asphalt PCN 90/R/C/W/T	553008.68N 0043427.83W 179.1 FT	THR 65.5 FT TDZ 65.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	93 x 150 M					RWY 02 Strip Dimensions: 2026 x 150 M. Landing threshold displaced by 81 M.
86 x 45 M	242 x 150 M					RWY 20 Strip Dimensions: 2111 x 150 M.
	184 x 150 M	3107 x 280 M				RWY 12 Landing threshold displaced by 244 M. Paved shoulders extend 23 M beyond each side of the runway for 2134 M from the threshold of Runway 30 and for 8 M beyond each side and end of the runway thereafter.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	89 x 150 M	3107 x 280 M				RWY 30 Paved shoulders extend 23 M beyond each side of the runway for 2134 M from the threshold of Runway 30 and for 8 M beyond each side and end of the runway thereafter. The downslope gradient over the first 400 M of LDA is: RWY 30 - 1.25%.

EGPK AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
12	2987 M	3171 M	2987 M	2743 M	
30	2987 M	3075 M	2987 M	2987 M	
12	2445 M	2629 M	2445 M		Take-off from Hold Kilo.
12	1453 M	1637 M	1453 M		Take-off from Hold Mike.
12	1366 M	1550 M	1366 M		Take-off from intersection Tango.
12	1190 M	1374 M	1190 M		Take-off from Hold November.
12	1128 M	1312 M	1128 M		Take-off from Hold Foxtrot.
30	2899 M	2988 M	2899 M		Take-off from intersection INT.
30	2678 M	2766 M	2678 M		Take-off from Hold Quebec.
30	1904 M	1992 M	1904 M		Take-off from Hold Foxtrot.
30	1841 M	1930 M	1841 M		Take-off from Hold November.
30	1652 M	1740 M	1652 M		Take-off from intersection Tango.
30	1589 M	1677 M	1589 M		Take-off from Hold Mike.
02	1906 M	1999 M	1906 M	1825 M	
20	1906 M	2147 M	1991 M	1906 M	
02	1906 M	2000 M	1906 M		Take-off from intersection Sierra.
02	1229 M	1322 M	1229 M		Take-off from Hold Yankee.
02	772 M	865 M	772 M		Take-off from Hold Whiskey.
20	1710 M	1951 M	1795 M		Take-off from Hold R1.
20	1158 M	1399 M	1243 M		Take-off from Hold Whiskey.
20	700 M	941 M	785 M		Take-off from Hold Yankee.

EGPK AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02		Green Light intensity high With green wingbars	PAPI Left/3° 58 FT 399 M			HI bi-directional with LI omni-directional component 64 M spacing	Red		
20	Centre-line with one crossbar. 420 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3.5° 57 FT 341 M			HI bi-directional with LI omni-directional component 64 M spacing	Red	175 M Red	

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
12	Coded centre-line with five crossbars. 853 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3° 58 FT 420 M		Colour coded 2987 M 30 M spacing Light intensity high	Elev HI bi-directional with LI omni-directional component 60 M spacing	Red		EDGE: These show red in NW direction between NW end of the runway and the displaced 12 threshold.
30	Coded centre-line with five crossbars. 890 M Light intensity high	Green Light intensity high With green wingbars	PAPI Left/3.5° 64 FT 450 M		Colour coded 2987 M 30 M spacing Light intensity high	Elev HI bi-directional with LI omni-directional component 60 M spacing	Red		EDGE: These show red in NW direction between NW end of the runway and the displaced 12 threshold.

EGPK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Adjacent to both ILS glidepath aerials. 553051.63N 0043621.16W, 553018.27N 0043441.90W (LTGD).
3	TWY edge and centre line lighting	EDGE: Blue edge lights.
4	Secondary power supply/switch-over time	During LVP operations changeover from standby power to mains takes place in less than 1 second. During visual or non-precision operations changeover from mains to standby generator takes maximum 15 seconds in event of full mains failure.
5	Remarks	Apron floodlights. Obstacle lighting.

EGPK AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Refer to item AD 2.20, paragraph 5. A helicopter aiming point is marked on Runway 12/30 between Links Mike and November. Runway thresholds may also be used, at the discretion of ATC.

EGPK AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
PRESTWICK CTR 553734N 0044227W - 552838N 0041639W thence clockwise by the arc of a circle radius 11 NM centred on 553034N 0043540W to 552150N 0042400W - 553044N 0044945W thence clockwise by the arc of a circle radius 8 NM centred on 553034N 0043540W to 553734N 0044227W	Upper limit: 5500 FT ALT Lower limit: SFC	D	PRESTWICK APPROACH English	6000 FT		

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
PRESTWICK ATZ A circle, 2.5 NM radius, centred at 553034N 0043540W on longest notified runway (12/30)	Upper limit: 2000 FT AGL Lower limit: SFC	D	PRESTWICK APPROACH English	6000 FT		

EGPK AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	PRESTWICK APPROACH	121.500 Emergency frequency O/R.			H24	ATZ hours coincident with Approach hours.
		129.450 DOC 40 NM/ 19,500 FT.			H24	
TWR	PRESTWICK TOWER	118.150 DOC 25 NM/6,000 FT.			H24	
		121.500 Emergency frequency O/R.			H24	
		127.155 As directed by ATC.			H24	
RADAR	PRESTWICK RADAR	121.500 Emergency frequency O/R.			H24	
		124.630 As directed by ATC.			H24	
		129.450 DOC 40 NM/ 19,500 FT.			H24	
ATIS	PRESTWICK INFORMATION	121.130			H24	
OTHER	PRESTWICK FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPK AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.65°W (2027)	IPP	110.300 MHz	H24	553000.19N 0043403.31W		(RWY 12)
ILS/GP	IPP	335.000 MHz	H24	553052.15N 0043621.68W		3° ILS Ref Datum Hgt 53 FT. The quality of the guidance provided does not permit the use of the facility for coupled approaches below 200 FT. Full scale flydown indications may not be maintained when high above the glide path sector. Caution is advised on approach.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.68°W (2027)	IKK	110.300 MHz	H24	553101.73N 0043701.31W		(RWY 30)
ILS/GP	IKK	335.000 MHz	H24	553018.01N 0043440.60W		3.5° ILS Ref Datum Hgt 56 FT. A weak signal may be experienced below the glide path slope at 8 degrees right of the centre-line.
VOR/DME 0.71°W (2027) 0.9°W (2025)	TRN	122X 117.500 MHz	H24	551848.28N 0044701.91W	586 FT	VOR DOC: 20 NM/50,000 FT, 30 NM/ 50,000 FT in Sector R056-106 and 45 NM/50,000 FT in Sector R356-056. DME DOC: 100 NM/50,000 FT (60 NM/50,000 FT in Sector R076-226 and 200 NM/50,000 FT in Sector R271-001). Due to terrain effects bearing errors of greater than 4 may occur in Sector R171-181. In addition coverage at low level is reduced in Sector R066-106.
NDB (L) 0.66°W (2027)	PIK	355.000 kHz	H24	553021.92N 0043438.11W		DOC 30 NM.
ILS/DME	IKK	40X 110.300 MHz	H24	553028.11N 0043538.49W	48 FT	(RWY 30) DOC 25 NM/10,000 FT. Zero range is indicated at THR of Runway 12 and 30.
ILS/DME	IPP	40X 110.300 MHz	H24	553028.11N 0043538.49W	48 FT	(RWY 12) DOC 25 NM/10,000 FT. Zero range is indicated at THR of Runway 12 and 30.

EGPK AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Pilots are to 'book-out' by telephoning ATC.
b) Traffic flow management of inbound, outbound and local aircraft may be applied without notice.
c) Aircraft with tail skids will not be permitted to use the aerodrome without first having been fitted with some form of wheel to prevent surface damage.
d) The wearing of high visibility clothing is mandatory by all personnel working on airside areas.
e) Fixed Electrical Ground Power must be used wherever available and serviceable. Use of GPU and APU should be limited to minimise environmental impact.
f) Pilots of international arriving or departing GA aircraft are responsible for presenting their passengers to UK Border Force. Transport to and from the UK Border should be arranged with the Handling Agent.
g) Aprons A & B are subject to security restrictions and searches.

2 GROUND MOVEMENT

a) Holding positions are indicated at night by a row of red lights across the taxiway. Aircraft are not permitted to proceed on to the runway unless these lights have been extinguished or permission has been given by ATC.
b) To prevent soil erosion by jet blast, an area contiguous with the beginning of Runway 30 has been concreted. This area is not load bearing and aircraft should not be taxied across it during line up for take-off. A hatched area separates this area from the runway.
c) ATC taxiing instructions should be strictly observed.
d) Link November has a reduced width of 16 M and is only available for aircraft up to and including Code C size.
e) Only marked taxiways to be used.
f) The arrangement of the Terminal apron, piers, stand numbers, nose wheel guide lines and alignment bars are shown at AD 2-EGPK-2-2.
g) The taxiway Route to/from Spirit Aero systems and HMS Gannet is via Link Tango.
h) Holding Point M is available to aircraft up to code F. During hours of darkness and low visibility all aircraft must use a follow me vehicle.
i) The first 100 M of paved surface from Runway 30 threshold has been marked to provide 50 M width for large aircraft turning. All turns must be executed in a clockwise direction. Concrete outside the runway edge markings is unfit for the movement of aircraft. Any pilot who may require marshaller assistance is to advise ATC before taxi.
j) Commanders of wide-bodied aircraft are reminded that minimum power only should be applied on Taxiway Juliet, particularly when entering the runway via holding point Juliet.

k) Aircraft that require starting by manual swinging of propellers are only permitted to undertake engine starting as a two person operation. An assistant familiar with manual swinging of propellers must be present in addition to the pilot in command and both persons must carry out the operation in a safe manner.
l) Link R1 is a dual holding point. Aircraft will be held parallel to Runway 30, when instructed by ATC access is via Runway 20.
m) Due to limited line of sight of certain parts of the manoeuvring area, such as Aprons A, B, G & H and the Southwestern section of Taxiway S south of holding point W, ATC may request additional position reports. Pilots should maintain a good lookout in these areas.
n) Taxiway R east of holding point R1 to holding point R2 has reduced separation of 167 M from Runway 12/30 centreline. ATC will hold aircraft at holding point R2 as required in accordance with local procedures.

3 CAT II/III OPERATIONS

Not Applicable

4 WARNINGS

a) Except for light signals, ground signals are not displayed.
b) Aircraft carrying out circuits on Runway 02/20 are warned of rising ground to the Northeast.
c) Pilots are advised that bird numbers have been assessed as ‘severe’ during migratory periods (Oct/Nov and Mar/Apr). During Spring and Autumn, bird concentrations may be present on surrounding agricultural land. Active dispersal methods are employed within the Airport's boundaries. This will be the subject of a NOTAM.
d) Because of the extreme width of the concrete/asphalt surface forming Runway 12/30 (92 M) paved shoulders extend 23 M beyond each side of the runway. In certain conditions (poor visibility and at night) the edge lights may be mistaken for the centre-line (albeit the edge lights are raised and the centre-line lights are flush mounted). Pilots of departing aircraft should exercise extreme caution when lining up on the centre-line of the runway in such circumstances.
e) When visibility is less than 800 M, Low Visibility Procedures will be applied. Pilots will be informed by RTF or ATIS. Pilots are advised that these procedures can cause delays for inbound and outbound traffic.
f) When RVR is less than 600 M, only one aircraft movement is permitted at a time on the manoeuvring area.
g) The maximum reportable RVR value for Runway 30 is 1400 M.
h) Caution Runway Incursion Prevention. Dual runway hold at Runway 02/20. Pilots are to adhere to ATC instructions / information and relevant ground markings at all times. See Aerodrome charts for hotspot location.
i) Grass Cutting - Consequent upon the implementation of the long grass programme relating to the control of birds, the following will be introduced:

   Grass cutting may take place on a daily basis between April and October inclusive within the strip enclosing Runways 12/30 and 02/20.

j) Deer hazard, aircrews to report any sightings to ATC.
k) Low level mechanical turbulence due to terrain and the presence of buildings on short final for all runways can affect the wind, resulting in the reported wind speed sometimes being lower than that experienced by pilots.

5 HELICOPTER OPERATIONS

a) Civil helicopters operating to Prestwick will normally be allocated to Apron G or H. Such helicopters are to operate to/from Aprons G and H by approaching to/from the aiming point marked on Runway 12/30 between Links M and N.
b) Military helicopters may operate directly to and from Apron C, subject to ATC permission.
c) At ATC discretion, the thresholds of Runways 12/30 and 02/20 may also be used as aiming points.
d) Helicopters may ‘air’ or ‘ground’ taxi between the aiming point and the designated parking area, including the military parking circles. Due to the surface condition of Apron C, only marked designated taxiway routes should be used.

6 USE OF RUNWAYS

a) During winter conditions when the runway is contaminated, estimated braking action will be provided in accordance with the CAA Estimated Braking Action Table.

7 TRAINING

a) Aircraft training slots are to be requested from ATC: 01292-511107.
b) The use of the airport for circuit and instrument training purposes is subject to the prior arrangement with ATC operations, Tel: 01292-511107.
c) ATC must be advised of any cancellations. Any training slot delayed by 30 minutes or more will be deemed to have been cancelled and the slot re-negotiated.
d) Failure to cancel a booked slot may result in cancellation charges.
e) The filing of a flight plan for a training slot does not imply acceptance.
f) Asymmetric flight must not be carried out without ATC permission.
g) From 1900-0800 (1800-0700) jet circuit training is not available due to noise abatement. Non jet aircraft may be accepted subject to PPR.
h) No training will be accepted on Tuesdays between 0800-1200 (0700-1100) due to essential airfield maintenance.

EGPK AD 2.21 NOISE ABATEMENT PROCEDURES

1 NOISE PREFERENTIAL PROCEDURES

a) Operators of all aircraft using the airport should ensure that at all times their aircraft conform to the noise abatement techniques laid down for that type of aircraft and that operations are conducted in a manner calculated to cause the least disturbance practicable in areas surrounding the aerodrome.
b) These requirements may at any time be departed from, to the extent necessary, for avoiding immediate danger and for complying with the instructions of ATC.
c) All aircraft using the aerodrome shall maintain as high an altitude as practicable.
d) Aircraft using the ILS in IMC or VMC shall not descend below 2000 FT before intercepting the glidepath unless directed by radar, nor thereafter fly below it. An Aircraft approaching without assistance from ILS or radar shall follow a descent path which will not result in its being lower than the approach path which would be followed by an aircraft using the ILS glidepath.
e) All airline crew training circuits shall be flown at a height of at least 1500 FT AAL. In other respects training aircraft shall comply with the procedures and routeings detailed in this notice together with procedures laid down by GPA Ltd with regard to training circuits.
f) Noise from ground running of aircraft engines is controlled in accordance with instructions issued by GPA Ltd.

2 NOISE PREFERENTIAL ROUTES

a) The Noise Preferential Routes (NPR) specified below are compatible with ATC requirements and shall apply in both IMC and VMC.
b) The tracks are to be flown by all departing jet aircraft and by all other aircraft of more than 12,500 KG MTWA unless otherwise instructed by ATC or unless deviations are required in the interests of safety.

Departure Runway	NPR
12	Climb straight ahead until passing DME I-PP or I-KK 4, or until passing 3000 FT ALT.
30	Climb straight ahead and after passing DME I PP or I KK 1.0 turn left onto track not North of 289°M until passing 3000 FT ALT.

c) The following NPR's will apply to circuit training as follows:

Departure Runway	NPR
12	Climb straight ahead until 1500 FT HGT / 1600 FT ALT before turning left or right into the circuit.
30	Climb straight ahead and after passing DME I-PP or I-KK 1.0 turn left onto track 289°M until 1500 FT HGT or 1600 FT ALT before turning left or right into the circuit.

3 VISUAL CIRCUITS

a) Aircraft carrying out right hand visual circuits on Runway 30 should avoid overflying Troon.

EGPK AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) The Standard Arrival Routes for arrivals from the ATS route system are as follows, and are detailed at AD 2-EGPK-7-1

Approach from	Via	Route
Southeast and South	N601/UN601, UN590	ASLIB - ENIPI - direct TRN For Runway 30 arrivals, tactical routing to SUMIN may be given.
Southwest	P600	BLACA - P600 - TRN

b) Arrival routes from all other directions are as follows:

Approach from	Via	Route
North and Northeast	P600	Direct to TRN or SUMIN REP by Scottish ACC, or transferred to Glasgow Approach for transit of the Glasgow CTR/CTA and/or Scottish TMA.
East	Y96	Tactical routing to TRN or SUMIN by Scottish ACC.
West and Northwest	N562	Routed direct to TRN by Scottish ACC.

c) Inbound aircraft other than from the Airways Route Structure:

i. Aircraft wishing to enter the CTR or CTA under IFR direct from the FIR must observe the normal procedure for joining Controlled Airspace.
ii. Pilots inbound to Prestwick under VFR must contact Prestwick Approach Control and request clearance to enter the Prestwick CTR/CTA at least 10 minutes before reaching the CTR/CTA boundary. VFR and Special VFR aircraft will usually be instructed to route either via one of the designated VFR routes or via Visual Reference Points (see paragraphs 5 to 8).

d) Aircraft routing inbound from other Scottish TMA airfields will be cleared the PIK NDB not below the MSA.
e) Approach Procedures with Radar Control

i. When Prestwick inbound traffic is being sequenced by radar, the Approach Procedures will be flown under directions from the Approach Radar Controller and will consist of that part of the approach between the Terminal Holding Fix and the Final Approach Path. When holding procedures are not in use, radar sequencing may commence before the Terminal Holding Fix.
ii. Pilots should plan their flight profile in such a manner as to be able to achieve the Minimum Holding Level at the appropriate holding point if so required.
iii. When an aircraft is under Approach Radar Control, changes of heading or Flight Level/Altitude will be made only on instructions from the Radar Controller except in the case of radio communication failure in the aircraft or at the Radar Unit.
iv. Headings and Flight Levels/Altitudes at which to leave the holding areas will be passed by ATC. Radar vectors will be given and descent clearance will include an estimate of track distance to touchdown. Further distance information will be given between the initial descent clearance and intercept heading to the ILS.
v. Speed Control may be applied on a tactical basis to aircraft whilst radar sequencing is in progress. Aircraft unable to comply with requested speeds should inform the radar controller immediately and state what speeds will be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as is feasible within their own operational constraints, and should advise ATC if circumstances necessitate a change of speed for aircraft performance reasons.
vi. In the event of a radar failure, new instructions will be issued to aircraft under Radar Control and the procedures as defined for approach without Radar Control will be put in effect.

f) Approach Procedures without Radar Control

When inbound traffic is not being sequenced by radar, aircraft will normally be cleared to either TRN VOR, SUMIN REP or PIK NDB in order to carry out an Instrument Approach Procedure appropriate to the landing direction.

2 RADIO COMMUNICATIONS FAILURE PROCEDURES

a) In the event of complete radio communication failure, pilots are to adopt the appropriate national basic procedures notified at ENR 1.1.3.
b) When leaving the CTR in accordance with national basic procedures, aircraft are to track 180° TRUE from the PIK NDB at 4000 FT ALT until clear of the Prestwick CTR Boundary.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Standard Instrument Departures from Prestwick are as follows (see AD 2-EGPK-6-1/2):

- P600 via TRN
- N560 via TRN to GOW
- L602 via TRN to GOW
- UL612 North via TRN to GOW
- T256/UT256 departing Runway 30, LUCCO Z248 OSMEG T256 DCS
- T256/UT256 departing Runway 12, SUDBY Z249 OSMEG T256 DCS
- Y96 departing Runway 30, LUCCO Z250 HAVEN
- Y96 departing Runway 12, SUMIN Z250 HAVEN
- N562 departing Runway 30, DAUNT Z246 HERON
- N562 departing Runway 12, AKODA Z247 HERON

b) North Atlantic Departures.

i. Due to the proximity of the Shanwick Oceanic boundary to Prestwick, pilots of jet aircraft planned to enter Shanwick airspace at GOMUP and ETILO should contact Shanwick CDO prior to departure. On all other oceanic routes an 'RCL' can be submitted after the aircraft is airborne. ENR 2.2, paragraph 3.8.2 refers.
ii. When TRA 008 (ENR 5.2 and ENR 6-13) is active, aircraft entering Shanwick/Reykjavik airspace at ETILO, ERAKA, ADODO, BALIX, ORTAV, ATSIX, LUSEN or RATSU should file via TRN GOW.

4 SPEED LIMIT

a) A speed limitation of 250 KT applies to all departures whilst flying below FL 100 except when a request has been approved and exceptional circumstances require its removal.

5 VFR FLIGHTS

a) VFR flights in the Control Zone will be given routing instructions and/or altitude restrictions in order to integrate VFR flights with other traffic.
b) Pilots should anticipate routing instructions via the routes detailed in paragraph 7 or the Visual Reference Points detailed in paragraph 9.

c) Pilots of VFR flights are required to remain in VMC at all times and to comply with the relevant Rules of the Air Regulations 2015, and must advise ATC if at any times they are unable to comply with the instructions given.

6 SPECIAL VFR FLIGHTS

a) Clearance may be requested for Special VFR flight in IMC or at night within the Prestwick Control Zone and will be given whenever the traffic situation permits. These flights are subject to the general provisions laid down for Special VFR flights.
b) Special VFR clearances will include routing and maximum altitude instructions and may not necessarily be confined to the entry/exit lanes detailed at paragraph 7. Pilots holding a Private Pilots Licence (Aeroplanes) are reminded of the visibility requirements of Special VFR flights laid down in Schedule 7 of the Air Navigation Order 2009 and the related notification at ENR 1-4-6 note 4, which may require them to request routing via the notified Entry/Exit Lanes.
c) Pilots are reminded that they must at all times, when operating on a Special VFR clearance, remain clear of cloud and in sight of the surface and in flight conditions which will enable them to determine their flight path and keep clear of obstacles. Due to the nature of the terrain in the vicinity of Prestwick Airport, radar vectoring will not normally be applied to aircraft operating in accordance with a Special VFR clearance.
d) Pilots are reminded that a Special VFR clearance applies only to flight within the Prestwick Control Zone and does not extend to flight within the surrounding airspace of the Prestwick Control Area or Scottish Terminal Control Area.
e) Special VFR clearances will not normally be granted for flights operating in VMC or for flights by aircraft exceeding 5700 KG MTWA.

7 ENTRY/EXIT LANES

a) The following entry/exit lanes are notified for the purposes of Schedule 7 of the Air Navigation Order 2009, Part A, Private Pilots Licence (Aeroplanes), sub-para 2 (c) (ii) to permit aircraft to operate to and from Prestwick Airport in IMC under the conditions stated, as follows:

i.
1. A lane 3 NM wide, with centre-line from Irvine Harbour VRP (a point on the northern Prestwick CTR boundary), thence southeast along the coast to Barassie, then along the railway line to the point at which it joins the Prestwick Aerodrome Traffic Zone;
2. A lane 3 NM wide, with centre-line from Doonfoot (Millennium Bridge) VRP (a point on the southern Prestwick CTR boundary), thence northeast along the coast to the point at which it joins the Prestwick Aerodrome Traffic Zone.

ii. Use of the lanes is subject to clearance by Prestwick ATC and the carriage of the Prestwick Approach Control frequency.
iii. Aircraft using the lanes must remain clear of cloud and in sight of the surface, not above 3000 FT (Prestwick QNH), and in flight visibility of not less than 3 KM.
iv. An aircraft using a lane shall keep the centre-line on its left, unless otherwise instructed by ATC for separation purposes. In these circumstances ATC will pass traffic information to the aircraft concerned.
v. Pilots of aircraft are responsible for maintaining adequate clearance from the surface or other obstacles.

b) Additionally, to permit the effective integration of traffic, flights operating under VFR may be required by ATC to follow these routes as detailed in paragraph 5.

8 MICROLIGHT AND MODEL AIRCRAFT OPERATIONS IN THE PRESTWICK CONTROL ZONE

a) Model aircraft operations take place at Auchens, 553453N 0043653W, up to 1000 FT AGL during daylight hours. Operations at Auchens above 400 FT AGL will be advised by ATC. For further information on operations at Auchens, contact 07828-160896.
b) Weight shift/flex wing microlights are not allowed to use the aerodrome unless in emergency. Limited numbers of three-axis microlights may be permitted with prior permission from the aerodrome operator.

9 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

10 OMNI-DIRECTIONAL DEPARTURES

Omni-directional Departures		
Runway	**Description**	**Restrictions**
12	Climb straight ahead MAG track 124° to 740 FT then turn on track climbing to enroute safety altitude/MSA. PDG 3.8% to 740 FT then 3.3% after turn.	Close-in obstacles exist. See Aerodrome Obstacle Chart and EGPK AD 2.10 Aerodrome Obstacles. This procedure does not take account of noise abatement procedures which may require additional manoeuvres once above the initial altitude and climbing. See EGPK AD 2.21 for Noise Abatement Procedures.
20	Climb straight ahead MAG track 206° to 1350 FT then turn on track climbing to enroute safety altitude/MSA. PDG 3.7% to 1350 FT then 3.3% after turn.	Close-in obstacles exist. See Aerodrome Obstacle Chart and EGPK AD 2.10 Aerodrome Obstacles.
30	Climb straight ahead MAG track 304° to 570 FT then turn on track climbing to enroute safety altitude/MSA. PDG 3.3%.	Close-in obstacles exist. See Aerodrome Obstacle Chart and EGPK AD 2.10 Aerodrome Obstacles. This procedure does not take account of noise abatement procedures which may require additional manoeuvres once above the initial altitude and climbing. See EGPK AD 2.21 for Noise Abatement Procedures.

EGPK AD 2.23 ADDITIONAL INFORMATION

a) Glasgow Prestwick Airport will only sanction the use of Remotely Piloted Aircraft Systems (RPAS) by professional licensed operators. All professional enquiries should be forwarded to ATC, Telephone: 01292-511107 or Email: atswatchmanager@glasgowprestwick.com.

EGPK AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPK-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGPK-2-2
PRESTWICK CONTROL ZONE AND CONTROL AREA CHART
AD 2.EGPK-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGPK-5-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) LUCCO 1K SUDBY 1L SUMIN 1L - ICAO
AD 2.EGPK-6-1
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) TRN 2K 2L DAUNT 1K AKODA 1L - ICAO
AD 2.EGPK-6-2
STANDARD INSTRUMENT DEPARTURE CODING TABLES RWY 30 LUCCO 1K RWY 12 SUDBY 1L SUMIN 1L
AD 2.EGPK-6-3
STANDARD INSTRUMENT DEPARTURE CODING TABLES - RWY 30 TRN 2K DAUNT 1K RWY 12 TRN 2L AKODA 1L
AD 2.EGPK-6-4
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BLACA 1P - ICAO
AD 2.EGPK-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) APPLE 2P RIBEL 2P - ICAO
AD 2.EGPK-7-2
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 12 TRN 2Q – ICAO
AD 2.EGPK-7-3
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 20 TRN 3S SUMIN 3S – ICAO
AD 2.EGPK-7-4
RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT RWY 30 TRN 2R SUMIN 2R – ICAO
AD 2.EGPK-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES BLACA 1P APPLE 2P RIBEL 2P
AD 2.EGPK-7-6
TRANSITION CODING TABLES RWY 12 TRN 2Q RWY 20 TRN 3S SUMIN 3S RWY 30 TRN 2R SUMIN 2R
AD 2.EGPK-7-7
RNAV HOLD CODING TABLE TRN SUMIN
AD 2.EGPK-7-8
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 12 - ICAO
AD 2.EGPK-8-1
INSTRUMENT APPROACH CHART – LOC/DME/NDB(L) RWY 12 – ICAO
AD 2.EGPK-8-2
INSTRUMENT APPROACH CHART SRA RTR 2 NM RWY 12 - ICAO
AD 2.EGPK-8-3
INSTRUMENT APPROACH CHART RNP RWY 12 - ICAO
AD 2.EGPK-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 12 - ICAO
AD 2.EGPK-8-5
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 20 - ICAO
AD 2.EGPK-8-6
INSTRUMENT APPROACH CHART RNP RWY 20 - ICAO
AD 2.EGPK-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 20 - ICAO
AD 2.EGPK-8-8
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 30 - ICAO
AD 2.EGPK-8-9
INSTRUMENT APPROACH CHART – ILS/DME/NDB(L) RWY 30 (ACFT CAT A,B) SHORT PROCEDURE – ICAO
AD 2.EGPK-8-10

INSTRUMENT APPROACH CHART – LOC/DME/NDB(L) RWY 30 – ICAO
AD 2.EGPK-8-11
INSTRUMENT APPROACH CHART – LOC/DME/NDB(L) RWY 30 (ACFT CAT A,B) SHORT PROCEDURE – ICAO
AD 2.EGPK-8-12
INSTRUMENT APPROACH CHART – SRA RTR 2NM RWY 30 – ICAO
AD 2.EGPK-8-13
INSTRUMENT APPROACH CHART RNP RWY 30 – ICAO
AD 2.EGPK-8-14
INSTRUMENT APPROACH CHART – NDB(L)/DME RWY 30 – ICAO
AD 2.EGPK-8-15
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 12
AD 2.EGPK-8-16
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 20
AD 2.EGPK-8-17
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 30
AD 2.EGPK-8-18

EGPK AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

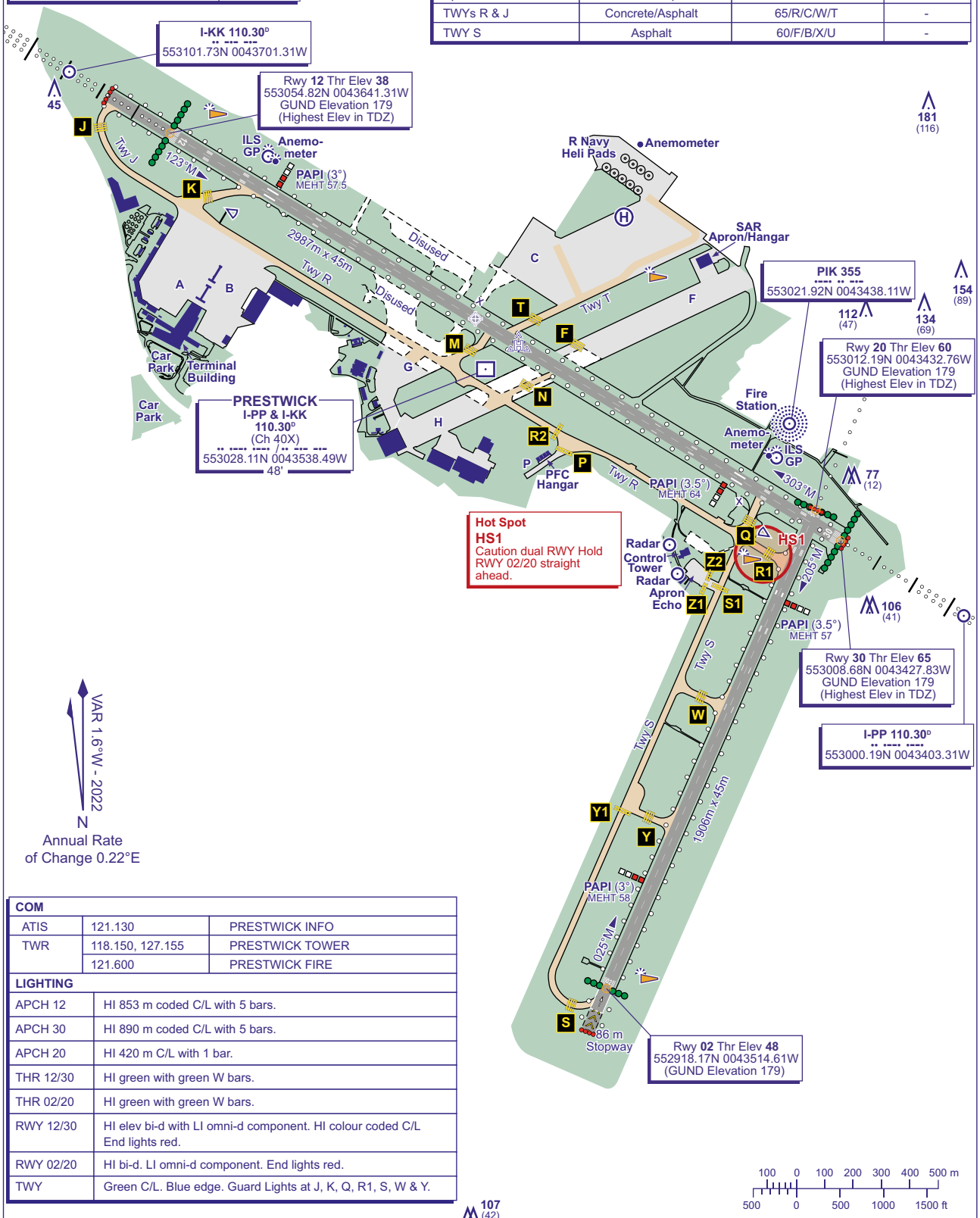
ARP 553034N 0043540W

AD ELEV 65FT

PRESTWICK
EGPK

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	181 (116)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 12/30	Concrete/Asphalt	90/R/C/W/T	-
RWY 02/20	Asphalt	60/F/C/X/U	-
Aprons A & B	Concrete/Asphalt	100/R/C/W/T	30 ft amsl
Aprons C, F & H	Concrete/Asphalt	50/R/A/X/U	-
Aprons G	Concrete/Asphalt	30/R/B/X/U	-
TWYs R & J	Concrete/Asphalt	65/R/C/W/T	-
TWY S	Asphalt	60/F/B/X/U	-



COM		
ATIS	121.130	PRESTWICK INFO
TWR	118.150, 127.155	PRESTWICK TOWER
	121.600	PRESTWICK FIRE

LIGHTING	
APCH 12	HI 853 m coded C/L with 5 bars.
APCH 30	HI 890 m coded C/L with 5 bars.
APCH 20	HI 420 m C/L with 1 bar.
THR 12/30	HI green with green W bars.
THR 02/20	HI green with green W bars.
RWY 12/30	HI elev bi-d with LI omni-d component. HI colour coded C/L End lights red.
RWY 02/20	HI bi-d. LI omni-d component. End lights red.
TWY	Green C/L. Blue edge. Guard Lights at J, K, Q, R1, S, W & Y.

CHANGE (4/25): OBSTACLE 134FT MODIFIED.

AERO INFO DATE 31 JAN 25

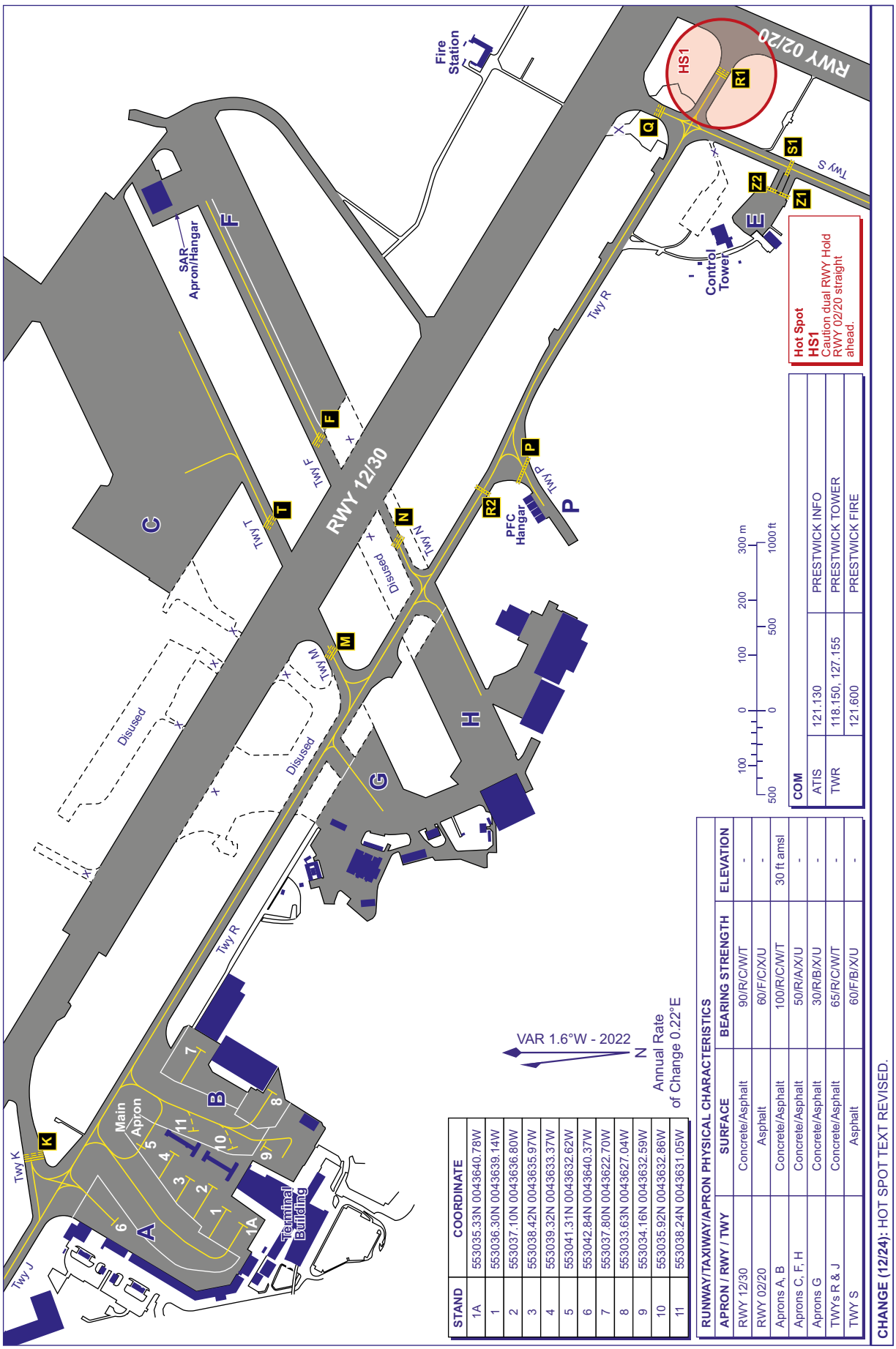
AD 2-EGPK-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

PRESTWICK EGPK

AD ELEV 65FT

ARP 553034N 0043540W



STAND	COORDINATE
1A	553035.33N 0043640.78W
1	553036.30N 0043639.14W
2	553037.10N 0043636.80W
3	553038.42N 0043635.97W
4	553039.32N 0043633.37W
5	553041.31N 0043632.62W
6	553042.84N 0043640.37W
7	553037.80N 0043622.70W
8	553033.63N 0043627.04W
9	553034.16N 0043632.59W
10	553035.92N 0043632.86W
11	553038.24N 0043631.05W

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS

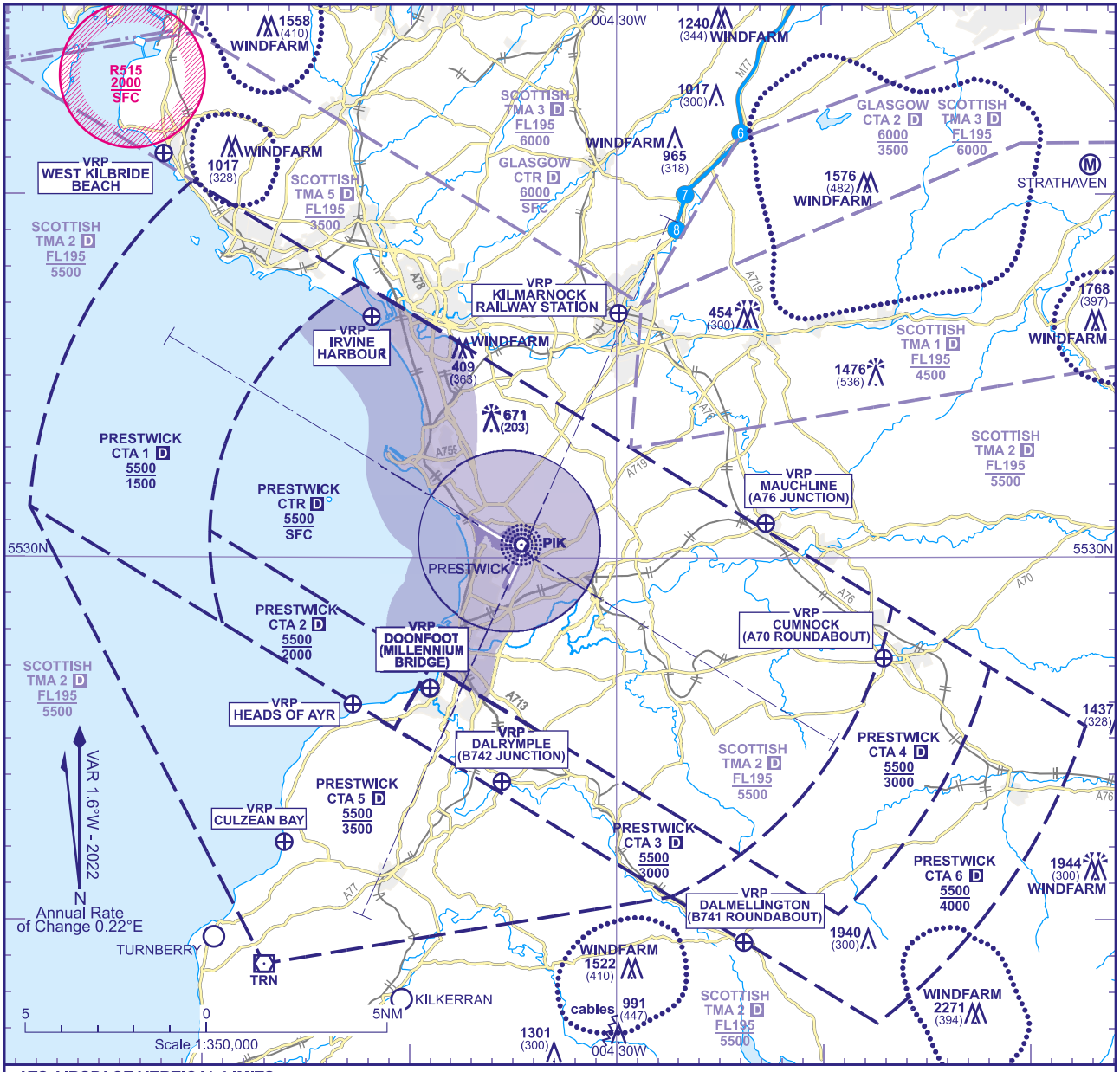
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 12/30	Concrete/Asphalt	90/R/C/W/T	-
RWY 02/20	Asphalt	60/F/C/X/U	-
Aprons A, B	Concrete/Asphalt	100/R/C/W/T	30 ft amsl
Aprons C, F, H	Concrete/Asphalt	50/R/A/X/U	-
Aprons G	Concrete/Asphalt	30/R/B/X/U	-
TWYs R & J	Concrete/Asphalt	65/R/C/W/T	-
TWY S	Asphalt	60/F/B/X/U	-

CHANGE (12/24): HOT SPOT TEXT REVISED.

AERO INFO DATE 05 SEP 24

PRESTWICK CONTROL ZONE AND CONTROL AREA

PRESTWICK



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

CHANGE (10/23): VRP REVISED.

AERO INFO DATE 20 JUL 23

AD 2-EGPK-4-1

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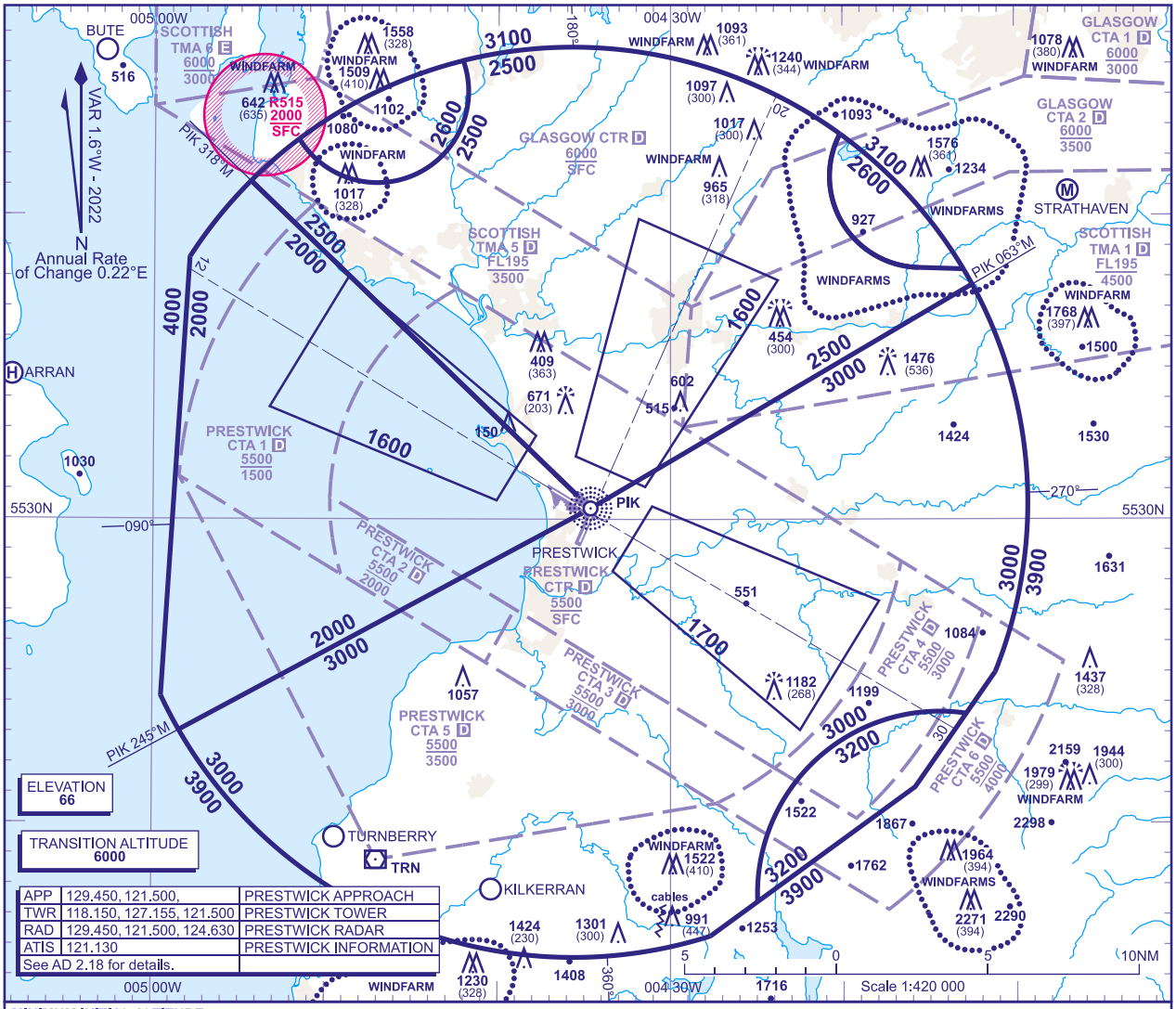
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 2271
HEIGHTS IN FEET AGL (394)

PRESTWICK



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surviellance controller is:

a) **2000** in the sector defined by the lateral limits; 554107N 0045425W-553022N 0043438W-552303N 0045827W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 552411N 0045930W-553837N 0045758W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 554107N 0045425W.

b) **2500** in the sector defined by the lateral limits; 554107N 0045425W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 554230N 0045137W thence anticlockwise by an arc of a circle radius 3NM centred on 554404N 0044705W to 554505N 0044206W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 554241N 0042008W thence anticlockwise by an arc of a circle radius 3NM centred on 554117N 0041526W to 553817N 0041534W-553814N 0041258W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 553744N 0041228W-553022N 0043438W-554107N 0045425W.

c) **2600** in the sector defined by the lateral limits; 554505N 0044206W thence clockwise by an arc of a circle radius 3NM centred on 554404N 0044705W to 554230N 0045137W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 554505N 0044206W.

d) **2600** in the sector defined by the lateral limits; 554241N 0042008W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 553814N 0041258W-553817N 0041534W thence clockwise by an arc of a circle radius 3NM centred on 554117N 0041526W to 554241N 0042008W.

e) **3000** in the sector defined by the lateral limits; 552303N 0045827W-553022N 0043438W-553744N 0041228W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 552459N 0041113W-552336N 0041255W thence anticlockwise by an arc of a circle radius 6NM centred on 551741N 0041428W to 551726N 0042457W-551618N 0042742W thence clockwise by an arc of a circle radius 15NM centred on 553034N 0043540W to 552303N 0045827W.

f) **3200** in the sector defined by the lateral limits; 552336N 0041255W to 552112N 0041552W-551726N 0042457W thence clockwise by an arc of a circle radius 6NM centred on 551741N 0041428W to 552336N 0041255W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach: Continue visually or by means of ILS final approach procedure. If not possible proceed at **4000**, or last assigned level if higher to **PIK NDB**†.

Intermediate and Final Approach: Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **PIK NDB**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (5/24): RWY 20 DESIGNATOR UPDATED.

AERO INFO DATE 29 FEB 24

AD 2-EGPK-5-1

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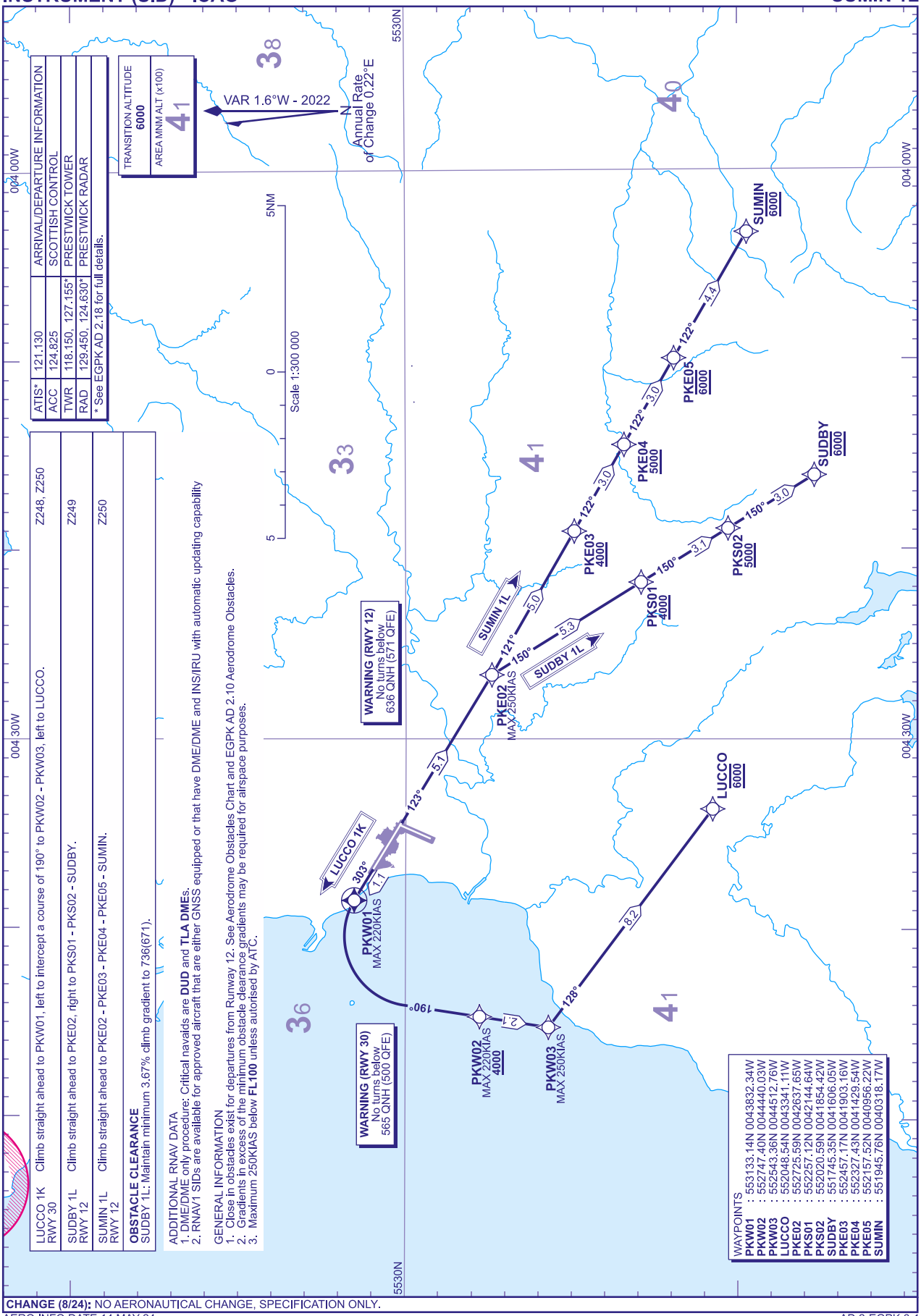
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

PRESTWICK
LUCCO 1K SUDBY 1L SUMIN 1L



CHANGE (8/24): NO AERONAUTICAL CHANGE, SPECIFICATION ONLY.

AERO INFO DATE 14 MAY 24

AD 2-EGPK 6-1

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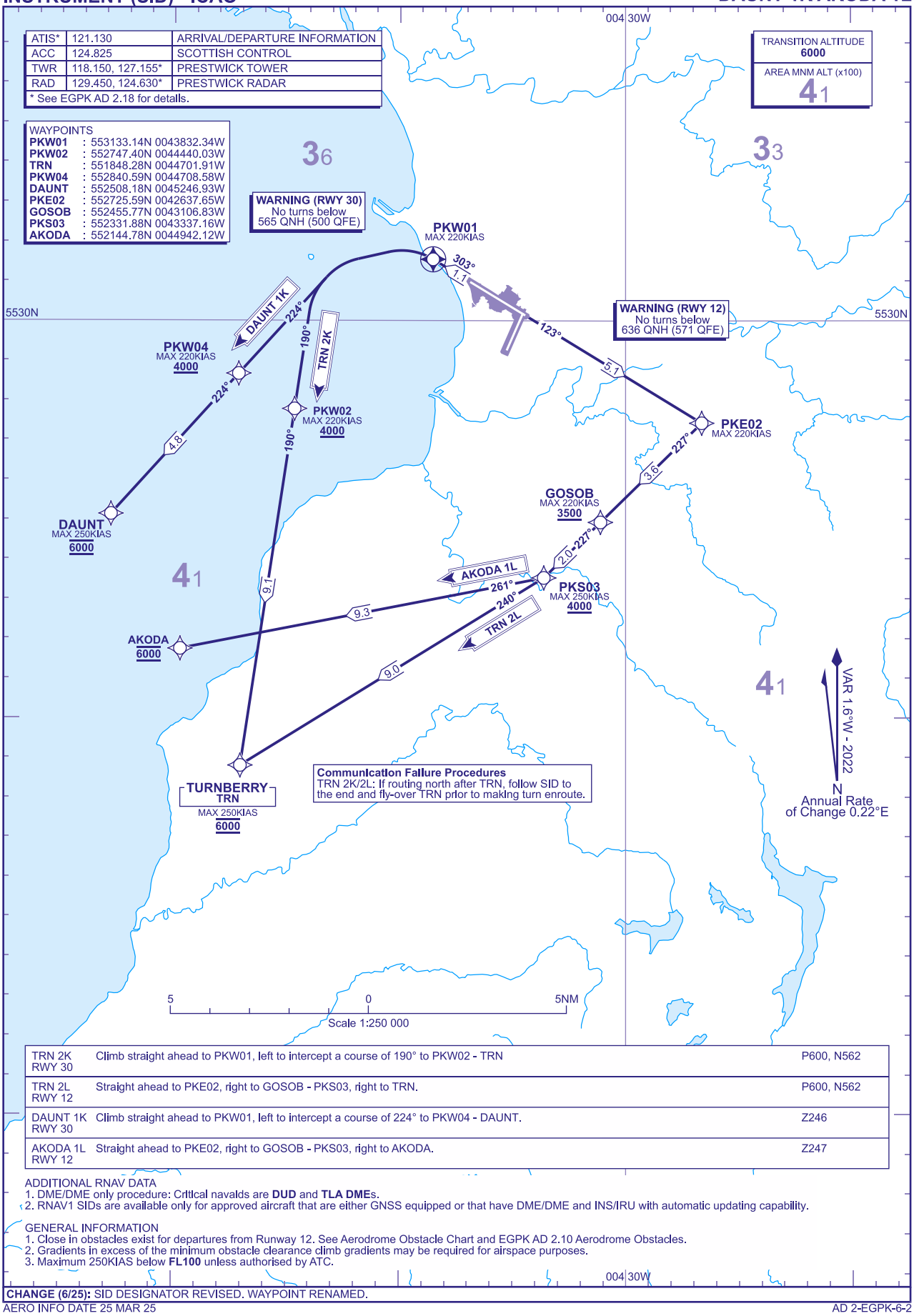
RNAV1 (DME/DME or GNSS) STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET

PRESTWICK
TRN 2K 2L
DAUNT 1K AKODA 1L



TRN 2K RWY 30	Climb straight ahead to PKW01, left to intercept a course of 190° to PKW02 - TRN	P600, N562
TRN 2L RWY 12	Straight ahead to PKE02, right to GOSOB - PKS03, right to TRN.	P600, N562
DAUNT 1K RWY 30	Climb straight ahead to PKW01, left to intercept a course of 224° to PKW04 - DAUNT.	Z246
AKODA 1L RWY 12	Straight ahead to PKE02, right to GOSOB - PKS03, right to AKODA.	Z247

ADDITIONAL RNAV DATA
1. DME/DME only procedure: Critical navaids are **DUD** and **TLA DMEs**.
2. RNAV1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic updating capability.

GENERAL INFORMATION
1. Close in obstacles exist for departures from Runway 12. See Aerodrome Obstacle Chart and EGPK AD 2.10 Aerodrome Obstacles.
2. Gradients in excess of the minimum obstacle clearance climb gradients may be required for airspace purposes.
3. Maximum 250KIAS below **FL100** unless authorised by ATC.

004 30W

CHANGE (6/25): SID DESIGNATOR REVISED. WAYPOINT RENAMED.

AERO INFO DATE 25 MAR 25

AD 2-EGPK-6-2

Standard Instrument Departure Coding Tables

PRESTWICK Runway 30 LUCCO 1K

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LUCCO1K	001	CA	-	-	-	303° (301.3°)	-1.6	-	-	+565	-	RNAV1
LUCCO1K	002	CF	PKW01	553133.14N 0043832.34W	Y	303° (301.3°)	-1.6	1.1	LEFT	-	-220	RNAV1
LUCCO1K	003	CF	PKW02	552747.40N 0044440.03W	N	190° (188.5°)	-1.6	-	-	+4000	-220	RNAV1
LUCCO1K	004	TF	PKW03	552543.36N 0044512.76W	N	190° (188.5°)	-1.6	2.1	LEFT	-	-250	RNAV1
LUCCO1K	005	TF	LUCCO	552048.54N 0043341.11W	N	128° (126.7°)	-1.6	8.2	-	6000	-	RNAV1

PRESTWICK Runway 12 SUDBY 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUDBY1L	001	CF	PKE02	552725.59N 0042637.65W	N	123° (121.4°)	-1.6	5.1	RIGHT	-	-250	RNAV1
SUDBY1L	002	TF	PKS01	552257.12N 0042144.64W	N	150° (148.1°)	-1.6	5.3	-	+4000	-	RNAV1
SUDBY1L	003	TF	PKS02	552020.59N 0041854.42W	N	150° (148.2°)	-1.6	3.1	-	+5000	-	RNAV1
SUDBY1L	004	TF	SUDBY	551745.35N 0041606.05W	N	150° (148.2°)	-1.6	3.0	-	6000	-	RNAV1

PRESTWICK Runway 12 SUMIN 1L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUMIN1L	001	CF	PKE02	552725.59N 0042637.65W	N	123° (121.4°)	-1.6	5.1	-	-	-250	RNAV1
SUMIN1L	002	TF	PKE03	552457.17N 0041903.16W	N	121° (119.8°)	-1.6	5.0	-	+4000	-	RNAV1
SUMIN1L	003	TF	PKE04	552327.43N 0041429.54W	N	122° (119.9°)	-1.6	3.0	-	+5000	-	RNAV1
SUMIN1L	004	TF	PKE05	552157.52N 0040956.22W	N	122° (120.0°)	-1.6	3.0	-	6000	-	RNAV1
SUMIN1L	005	TF	SUMIN	551945.76N 0040318.17W	N	122° (120.1°)	-1.6	4.4	-	6000	-	RNAV1

CHANGE (8/24): NO AERONAUTICAL CHANGE, SPECIFICATION ONLY.
AERO INFO DATE 14 MAY 24

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Standard Instrument Departure Coding Tables

PRESTWICK Runway 30 TRN 2K

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TRN2K	001	CA	-	-	-	303° (301.3°)	-1.6	-	-	+565	-	RNAV1
TRN2K	002	CF	PKW01	553133.14N 0043832.34W	Y	303° (301.3°)	-1.6	1.1	LEFT	-	-220	RNAV1
TRN2K	003	CF	PKW02	552747.40N 0044440.03W	N	190° (188.5°)	-1.6	-	-	+4000	-220	RNAV1
TRN2K	004	TF	TRN	551848.28N 0044701.91W	N	190° (188.5°)	-1.6	9.1	-	6000	-250	RNAV1

PRESTWICK Runway 12 TRN 2L

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TRN2L	001	CA	-	-	-	123° (121.4°)	-1.6	-	-	+636	-	RNAV1
TRN2L	002	CF	PKE02	552725.59N 0042637.65W	N	123° (121.4°)	-1.6	5.1	RIGHT	-	-220	RNAV1
TRN2L	003	TF	GOSOB	552455.77N 0043106.83W	N	227° (225.6°)	-1.6	3.6	-	+3500	-220	RNAV1
TRN2L	004	TF	PKS03	552331.88N 0043337.16W	N	227° (225.6°)	-1.6	2.0	RIGHT	+4000	-250	RNAV1
TRN2L	005	TF	TRN	551848.28N 0044701.91W	N	240° (238.4°)	-1.6	9.0	-	6000	-	RNAV1

PRESTWICK Runway 30 DAUNT 1K

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
DAUNT1K	001	CA	-	-	-	303° (301.3°)	-1.6	-	-	+565	-	RNAV1
DAUNT1K	002	CF	PKW01	553133.14N 0043832.34W	Y	303° (301.3°)	-1.6	1.1	LEFT	-	-220	RNAV1
DAUNT1K	003	CF	PKW04	552840.59N 0044708.58W	N	224° (222.2°)	-1.6	-	-	+4000	-220	RNAV1
DAUNT1K	004	TF	DAUNT	552508.18N 0045246.93W	N	224° (222.2°)	-1.6	4.8	-	6000	-250	RNAV1

PRESTWICK Runway 12 AKODA 1L

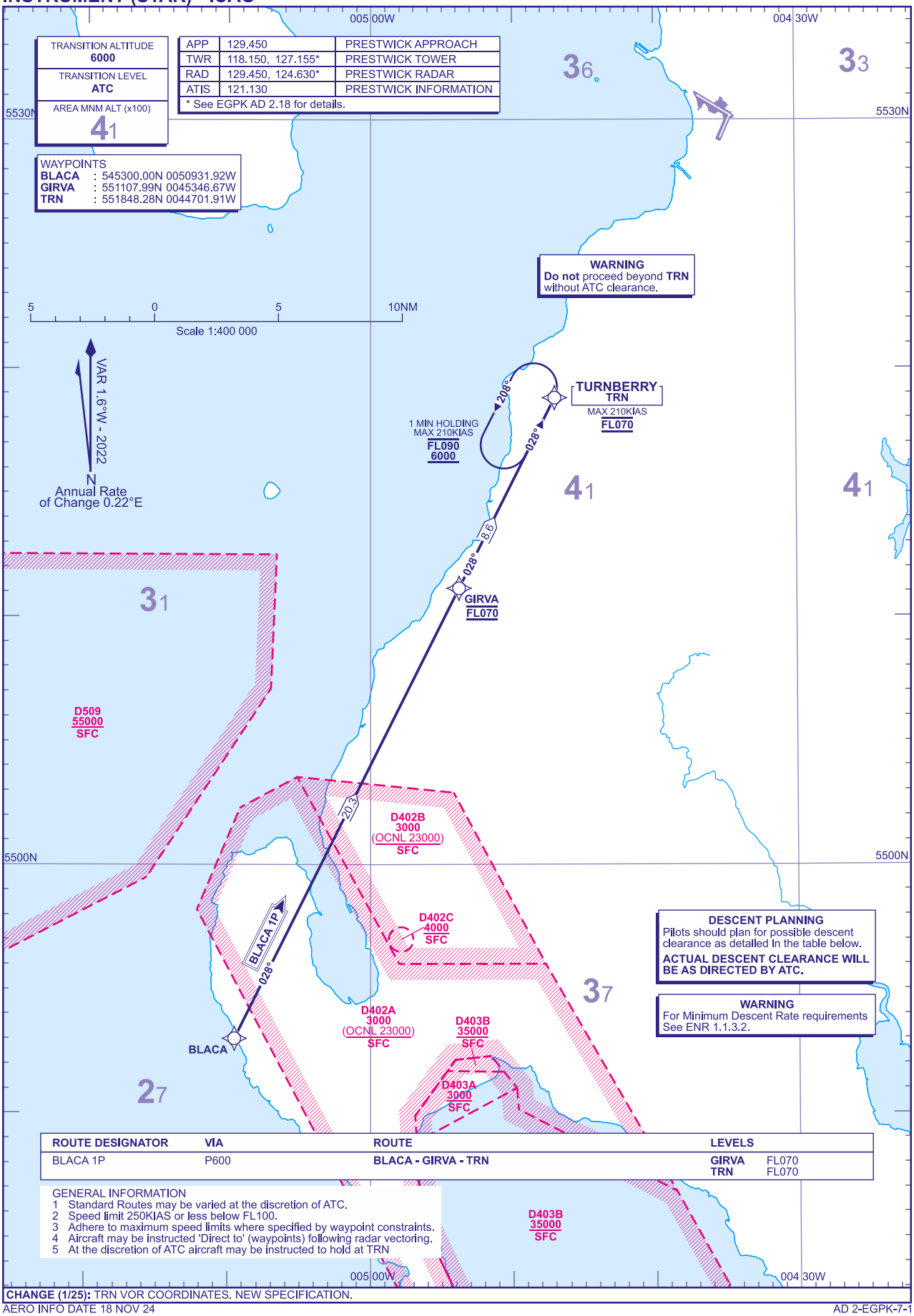
Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
AKODA1L	001	CA	-	-	-	123° (121.4°)	-1.6	-	-	+636	-	RNAV1
AKODA1L	002	CF	PKE02	552725.59N 0042637.65W	N	123° (121.4°)	-1.6	5.1	RIGHT	-	-220	RNAV1
AKODA1L	003	TF	GOSOB	552455.77N 0043106.83W	N	227° (225.6°)	-1.6	3.6	-	+3500	-220	RNAV1
AKODA1L	004	TF	PKS03	552331.88N 0043337.16W	N	227° (225.6°)	-1.6	2.0	RIGHT	+4000	-250	RNAV1
AKODA1L	005	TF	AKODA	552144.78N 0044942.12W	N	261° (259.1°)	-1.6	9.3	-	6000	-	RNAV1

CHANGE (6/25): SID DESIGNATOR REVISED. WAYPOINT OKNOB RENAMED AKODA.
AERO INFO DATE 25 MAR 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

PRESTWICK BLACA 1P



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
BLACA 1P	P600	BLACA - GIRVA - TRN	GIRVA FL070 TRN FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Speed limit 250KIAS or less below FL100.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.
5 At the discretion of ATC aircraft may be instructed to hold at TRN

CHANGE (1/25): TRN VOR COORDINATES. NEW SPECIFICATION.

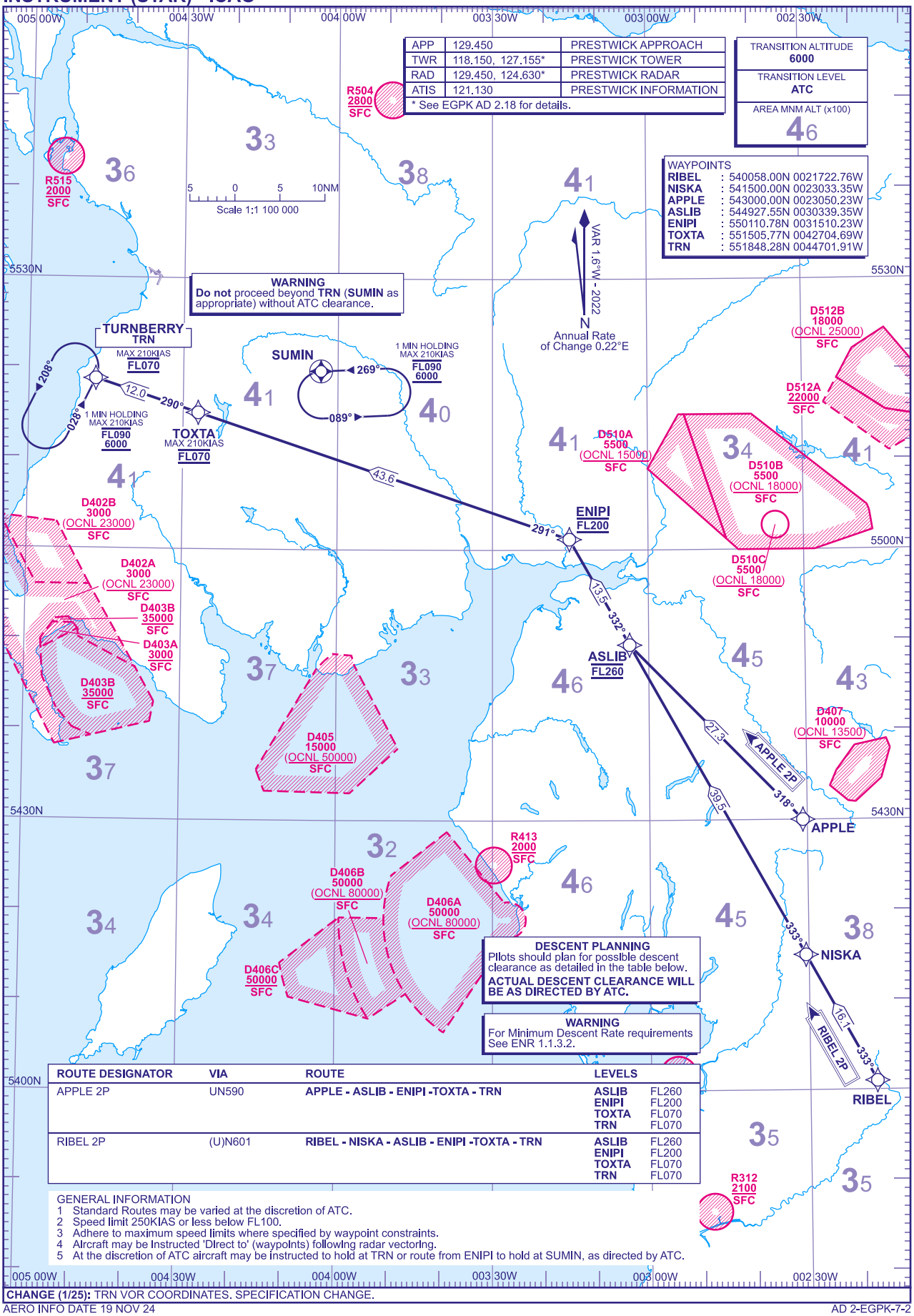
AERO INFO DATE 18 NOV 24

AD 2-EGPK-7-1

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

PRESTWICK APPLE 2P RIBEL 2P



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
APPLE 2P	UN590	APPLE - ASLIB - ENIPI -TOXTA - TRN	ASLIB FL260 ENIPI FL200 TOXTA FL070 TRN FL070
RIBEL 2P	(U)N601	RIBEL - NISKA - ASLIB - ENIPI -TOXTA - TRN	ASLIB FL260 ENIPI FL200 TOXTA FL070 TRN FL070

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Speed limit 250KIAS or less below FL100.
3 Adhere to maximum speed limits where specified by waypoint constraints.
4 Aircraft may be instructed 'Direct to' (waypoints) following radar vectoring.
5 At the discretion of ATC aircraft may be instructed to hold at TRN or route from ENIPI to hold at SUMIN, as directed by ATC.

CHANGE (1/25): TRN VOR COORDINATES. SPECIFICATION CHANGE.

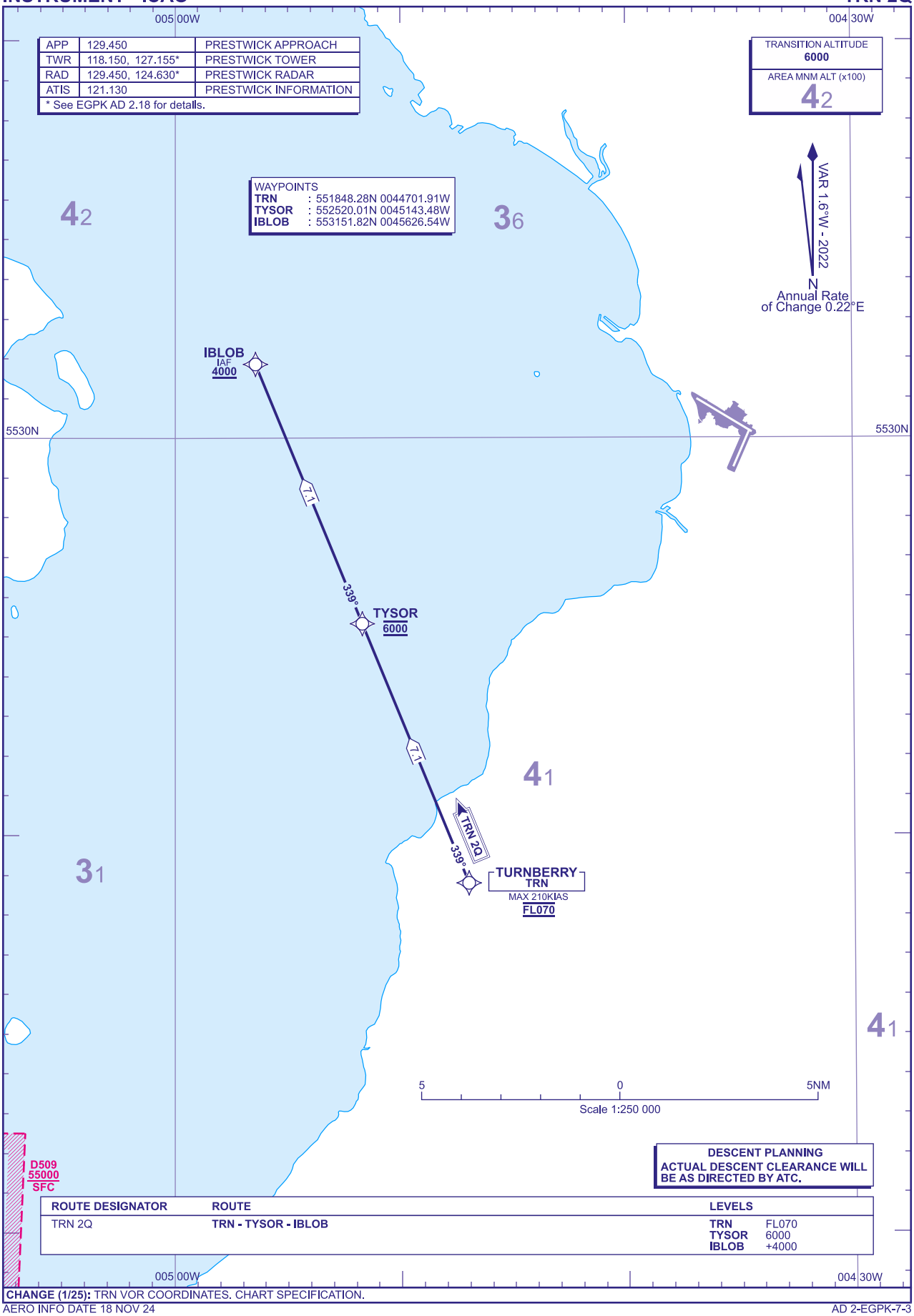
AERO INFO DATE 19 NOV 24

AD 2-EGPK-7-2

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

PRESTWICK
RWY 12
TRN 2Q



CHANGE (1/25): TRN VOR COORDINATES. CHART SPECIFICATION.

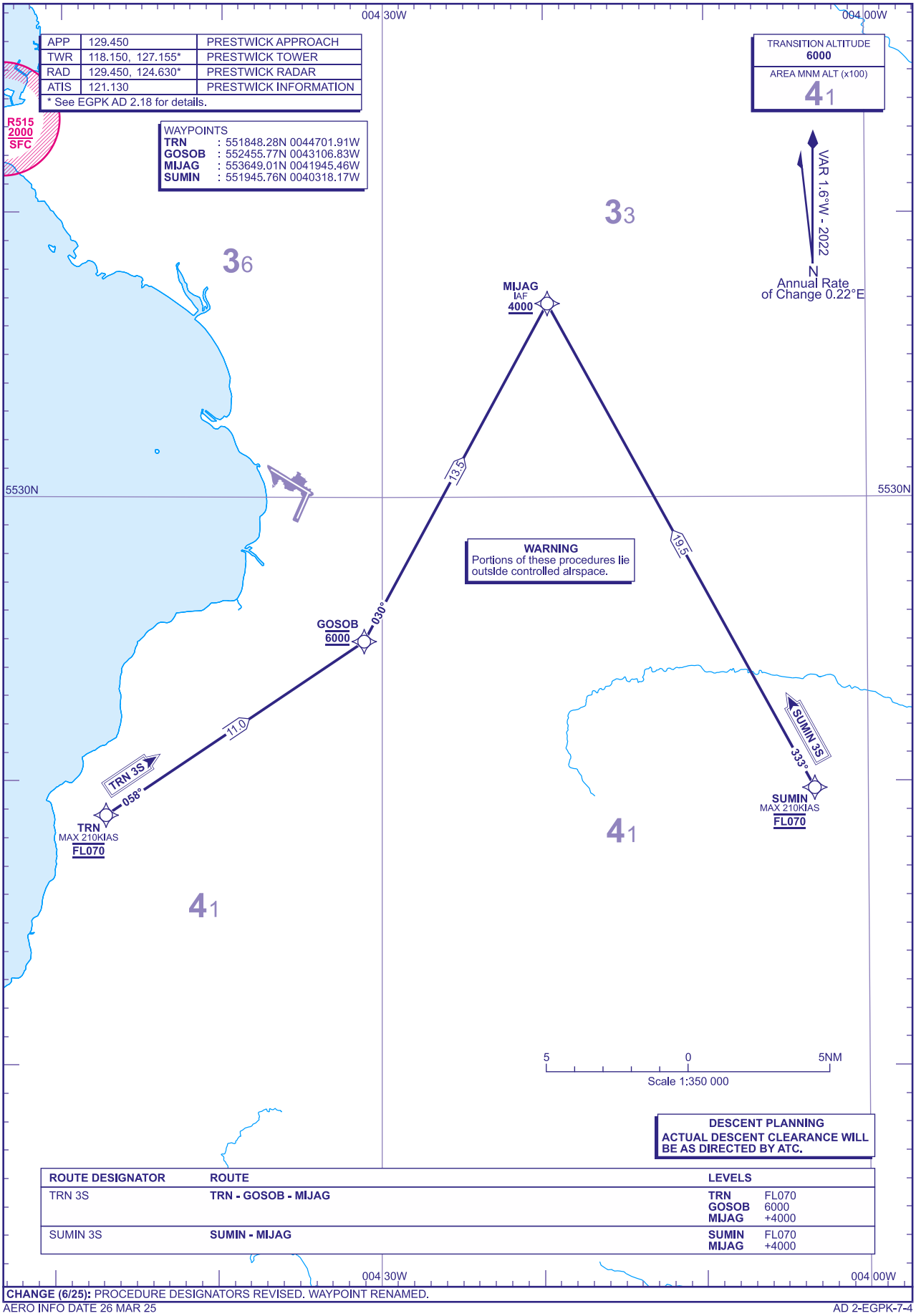
AERO INFO DATE 18 NOV 24

AD 2-EGPK-7-3

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

PRESTWICK
RWY 20
TRN 3S SUMIN 3S



ROUTE DESIGNATOR	ROUTE	LEVELS
TRN 3S	TRN - GOSOB - MIJAG	TRN FL070 GOSOB 6000 MIJAG +4000
SUMIN 3S	SUMIN - MIJAG	SUMIN FL070 MIJAG +4000

CHANGE (6/25): PROCEDURE DESIGNATORS REVISED. WAYPOINT RENAMED.

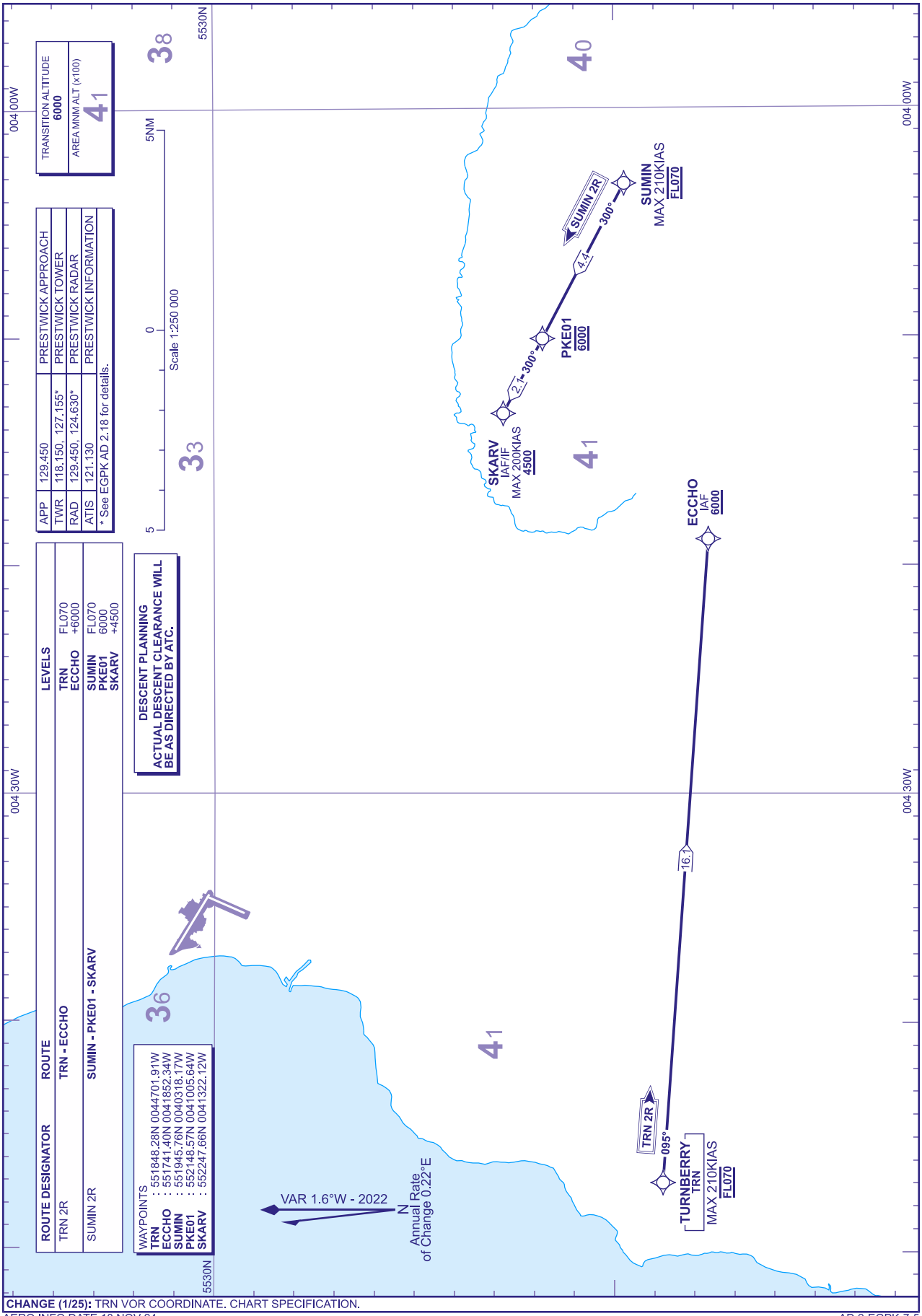
AERO INFO DATE 26 MAR 25

AD 2-EGPK-7-4

RNAV1 (DME/DME or GNSS) APPROACH TRANSITIONS CHART - INSTRUMENT - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

PRESTWICK
RWY 30
TRN 2R SUMIN 2R



CHANGE (1/25): TRN VOR COORDINATE. CHART SPECIFICATION.

AERO INFO DATE 18 NOV 24

AD 2-EGPK-7-5

Standard Instrument Arrival Coding Tables

PRESTWICK BLACA 1P

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BLACA1P	001	IF	BLACA	545300.00N 0050931.92W	N	-	-1.6	-	-	-	-	RNAV5
BLACA1P	002	TF	GIRVA	551107.99N 0045346.67W	N	028° (026.4°)	-1.6	20.3	-	FL070	-	RNAV5
BLACA1P	003	TF	TRN	551848.28N 0044701.91W	N	028° (026.6°)	-1.6	8.6	-	FL070	-210	RNAV5

PRESTWICK APPLE 2P

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
APPLE2P	001	IF	APPLE	543000.00N 0023050.23W	N	-	-1.6	-	-	-	-	RNAV5
APPLE2P	002	TF	ASLIB	544927.55N 0030339.35W	N	318° (315.9°)	-1.6	27.3	RIGHT	FL260	-	RNAV5
APPLE2P	003	TF	ENIPI	550110.78N 0031510.23W	N	332° (330.6°)	-1.6	13.5	LEFT	FL200	-	RNAV5
APPLE2P	004	TF	TOXTA	551505.77N 0042704.69W	N	291° (289.2°)	-1.6	43.6	-	FL070	-210	RNAV5
APPLE2P	005	TF	TRN	551848.28N 0044701.91W	N	290° (288.2°)	-1.6	12.0	-	FL070	-210	RNAV5

PRESTWICK RIBEL 2P

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RIBEL2P	001	IF	RIBEL	540058.00N 0021722.76W	N	-	-1.6	-	-	-	-	RNAV5
RIBEL2P	002	TF	NISKA	541500.00N 0023033.35W	N	333° (331.2°)	-1.6	16.1	-	-	-	RNAV5
RIBEL2P	003	TF	ASLIB	544927.55N 0030339.35W	N	333° (331.0°)	-1.6	39.5	-	FL260	-	RNAV5
RIBEL2P	004	TF	ENIPI	550110.78N 0031510.23W	N	332° (330.6°)	-1.6	13.5	LEFT	FL200	-	RNAV5
RIBEL2P	005	TF	TOXTA	551505.77N 0042704.69W	N	291° (289.2°)	-1.6	43.6	-	FL070	-210	RNAV5
RIBEL2P	006	TF	TRN	551848.28N 0044701.91W	N	290° (288.2°)	-1.6	12.0	-	FL070	-210	RNAV5

CHANGE (1/25): TRN VOR COORDINATES. CHART SPECIFICATION.
AERO INFO DATE 31 OCT 24

Transition Coding Tables

PRESTWICK RWY 12 TRN 2Q

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TRN2Q	001	IF	TRN	551848.28N 0044701.91W	N	-	-1.6	-	-	FL070	-210	RNAV1
TRN2Q	002	TF	TYSOR	552520.01N 0045143.48W	N	339° (337.8°)	-1.6	7.1	-	6000	-	RNAV1
TRN2Q	003	TF	IBLOB	553151.82N 0045626.54W	N	339° (337.7°)	-1.6	7.1	-	4000	-	RNAV1

PRESTWICK RWY 20 TRN 3S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TRN3S	001	IF	TRN	551848.28N 0044701.91W	N	-	-1.6	-	-	FL070	-210	RNAV1
TRN3S	002	TF	GOSOB	552455.77N 0043106.83W	N	058° (055.9°)	-1.6	11.0	LEFT	6000	-	RNAV1
TRN3S	003	TF	MIJAG	553649.01N 0041945.46W	N	030° (028.4°)	-1.6	13.5	-	4000	-	RNAV1

PRESTWICK RWY 20 SUMIN 3S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUMIN3S	001	IF	SUMIN	551945.76N 0040318.17W	N	-	-1.6	-	-	FL070	-210	RNAV1
SUMIN3S	002	TF	MIJAG	553649.01N 0041945.46W	N	333° (331.4°)	-1.6	19.5	-	4000	-	RNAV1

PRESTWICK RWY 30 TRN 2R

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TRN2R	001	IF	TRN	551848.28N 0044701.91W	N	-	-1.6	-	-	FL070	-210	RNAV1
TRN2R	002	TF	ECCHO	551741.40N 0041852.34W	N	095° (093.8°)	-1.6	16.1	-	6000	-	RNAV1

PRESTWICK RWY 30 SUMIN 2R

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUMIN2R	001	IF	SUMIN	551945.76N 0040318.17W	N	-	-1.6	-	-	FL070	-210	RNAV1
SUMIN2R	002	TF	PKE01	552148.57N 0041005.64W	N	300° (297.9°)	-1.6	4.4	-	6000	-	RNAV1
SUMIN2R	003	TF	SKARV	552247.66N 0041322.12W	N	300° (297.9°)	-1.6	2.1	-	4500	-200	RNAV1

CHANGE (6/25): PROCEDURE DESIGNATORS REVISED. WAYPOINT RENAMED.
AERO INFO DATE 26 MAR 25

RNAV Hold Coding Tables

PRESTWICK TRN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
TRN	-	-	TRN	551848.28N 0044701.91W	Y	028° (026.7°)	-1.6	1 MIN	LEFT	-FL090 +6000	-210	RNAV5

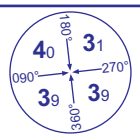
PRESTWICK SUMIN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUMIN	-	-	SUMIN	551945.76N 0040318.17W	Y	269° (267.5°)	-1.6	1 MIN	LEFT	-FL090 +6000	-210	RNAV5

CHANGE (1/25): TRN VOR COORDINATES. CHART SPECIFICATION.
AERO INFO DATE 31 OCT 24

INSTRUMENT APPROACH CHART - ICAO

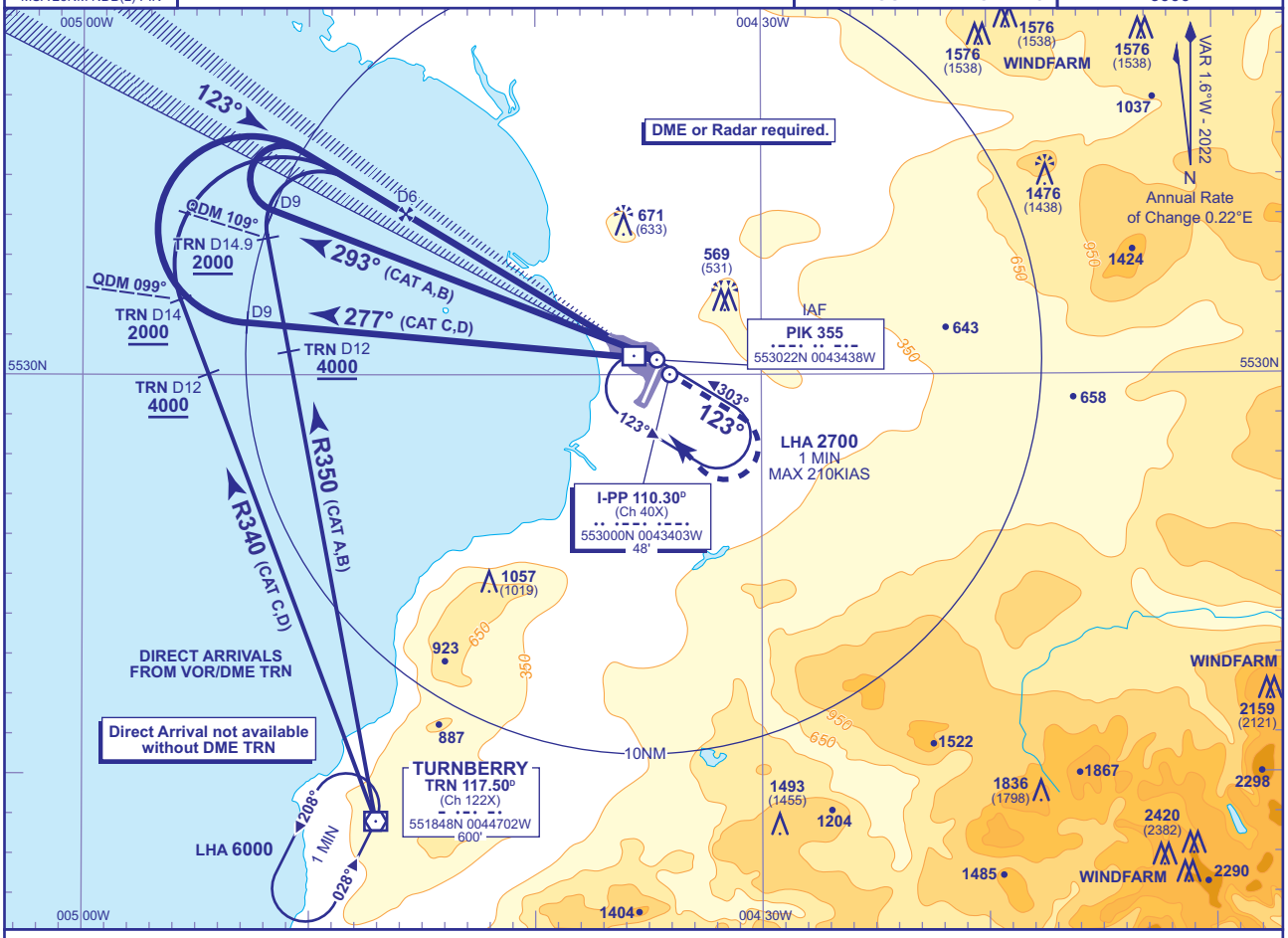
PRESTWICK ILS/DME/NDB(L) RWY 12
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	38
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION **2420 AMSL** (2382) (ABOVE THR)	
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

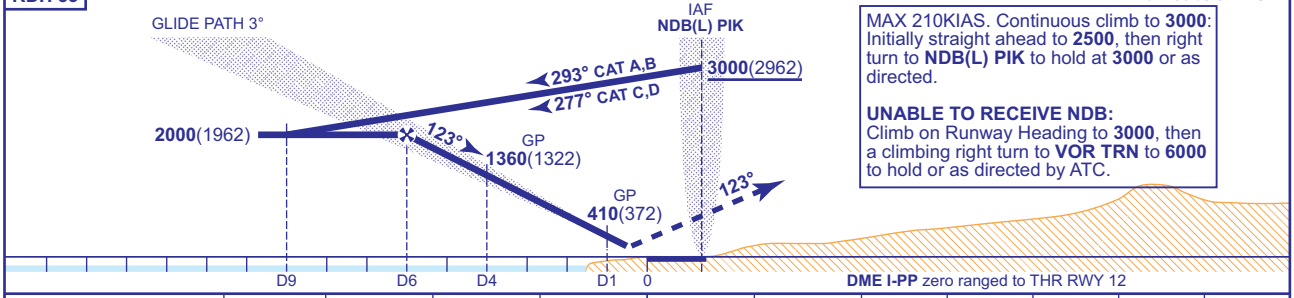


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-PP	6	5	4	3	2	1
ALT(HGT)	**2000**(1962)	**1680**(1642)	**1360**(1322)	**1050**(1012)	**730**(692)	**410**(372)

RDH 53

Arrival **not below MSA**.



MAX 210KIAS. Continuous climb to **3000**: Initially straight ahead to **2500**, then right turn to **NDB(L) PIK** to hold at **3000** or as directed.

UNABLE TO RECEIVE NDB:
Climb on Runway Heading to **3000**, then a climbing right turn to **VOR TRN** to **6000** to hold or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	NO DME/ DME (CAT I)	**220**(182)	**229**(191)	**239**(201)	**251**(213)
VM(C)OCA (OCH AAL)	Total Area	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**640**(575)	**710**(645)	**1000**(935)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME
In the absence of DME, radar ranges if available will be provided at the following equivalent DME ranges: D9 outbound on Baseturn, approaching FAP at DME 6 and GP checks at DME 4 and DME 1 on Final Approach.

NOTE 1 To expedite the procedure, aircraft captains may, at their discretion and subject to ATC approval, commence the procedure from NDB(L) PIK at **4000** instead of the usual **3000**.
2 Direct arrivals are subject to prior approval from ATC.

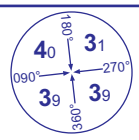
CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 13 MAY 25

AD 2-EGPK-8-1

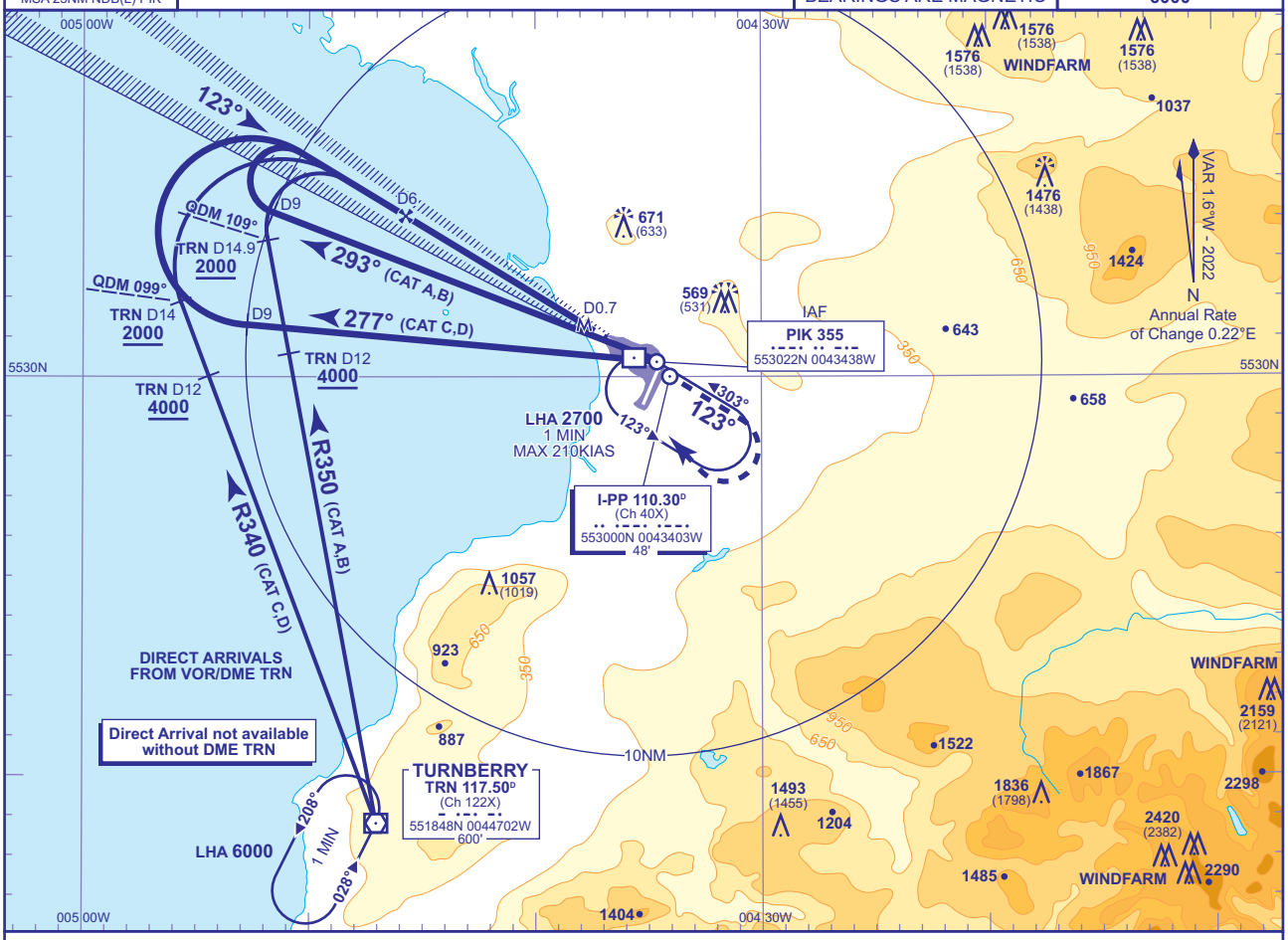
INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
LOC/DME/NDB(L)
RWY 12
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

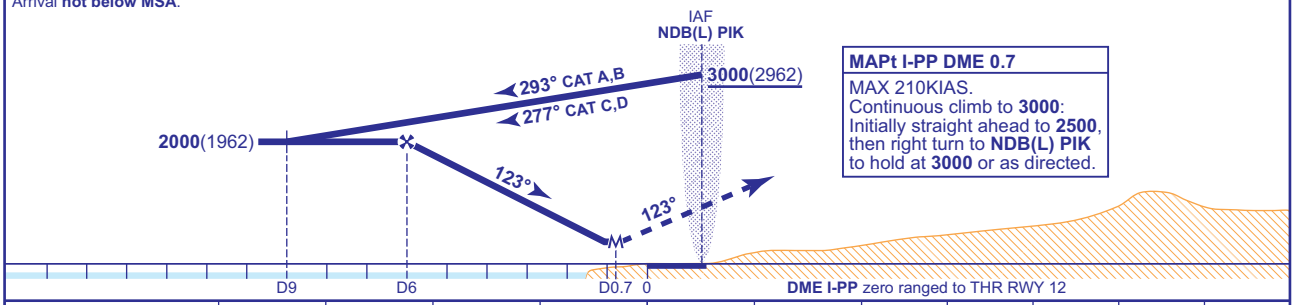
APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	TRANSITION ALTITUDE 6000
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	38	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2382) (ABOVE THR)		
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24, 320FT/NM

DME I-PP	6	5	4	3	2	1
ALT(HGT)	**2000**(1962)	**1680**(1642)	**1360**(1322)	**1050**(1012)	**730**(692)	**410**(372)

Arrival **not below MSA**.



MAPt I-PP DME 0.7
MAX 210KIAS.
Continuous climb to **3000**:
Initially straight ahead to **2500**,
then right turn to **NDB(L) PIK**
to hold at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**370**(332)	**370**(332)	**370**(332)	**370**(332)
VM(C)OCA (OCH AAL)	Total Area	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**640**(575)	**710**(645)	**1000**(935)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 To expedite the procedure, aircraft captains may, at their discretion and subject to ATC approval, commence the procedure from NDB(L) PIK at **4000** instead of the usual **3000**.
2 Direct arrivals are subject to prior approval from ATC.

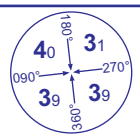
CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 13 MAY 25

AD 2-EGPK-8-2

INSTRUMENT APPROACH CHART - ICAO

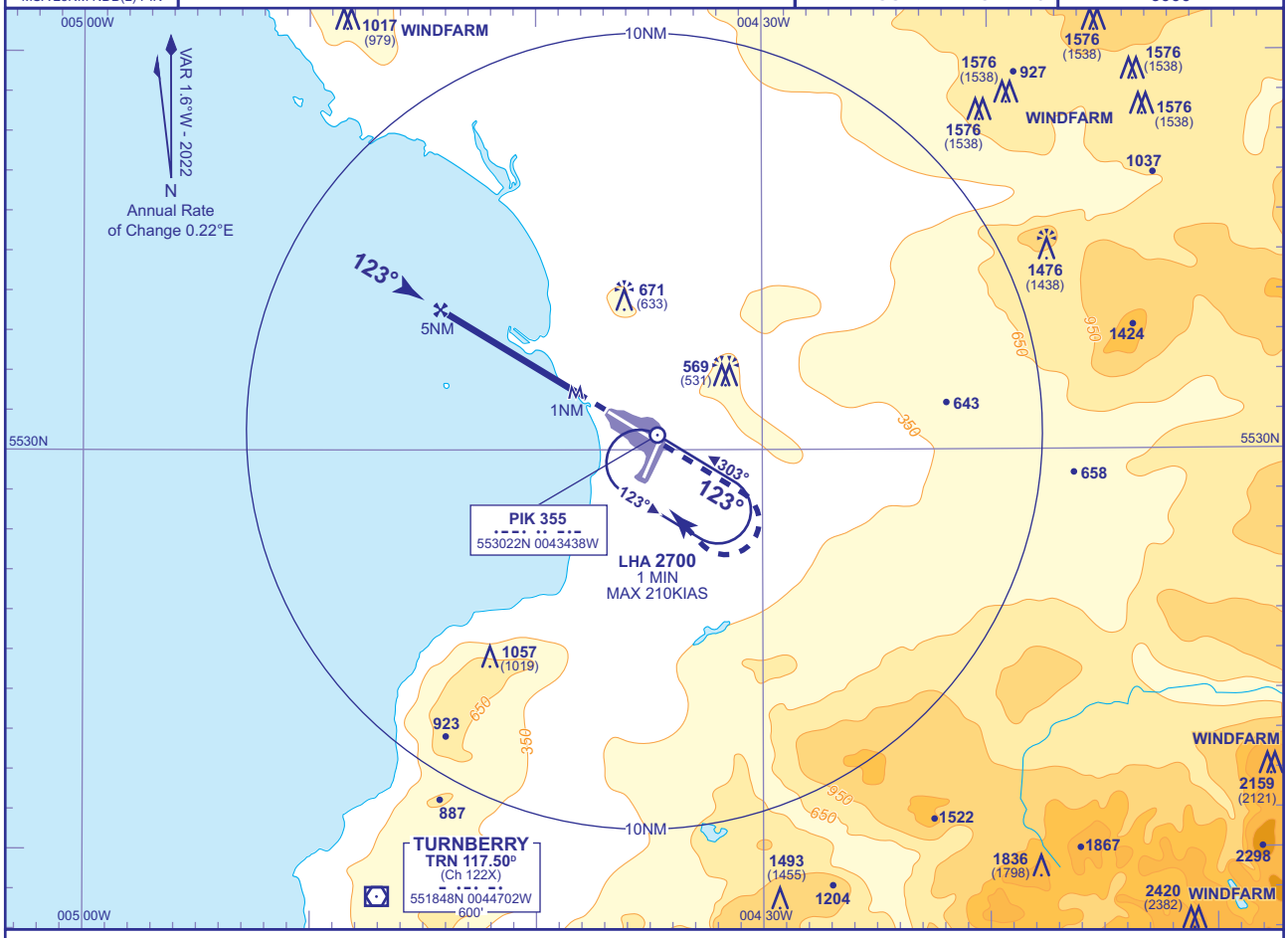
PRESTWICK
SRA RTR 2NM
RWY 12
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

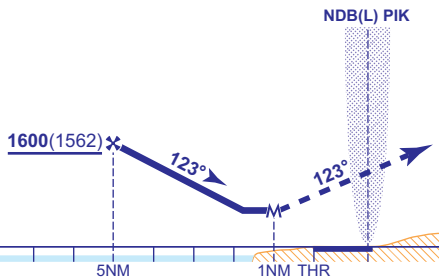
APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	38
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2382) (ABOVE THR)	
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
6000



RECOMMENDED PROFILE Gradient 5.14%, 312FT/NM			
NM	4.0	3.0	2.0
ALT(HGT)	**1290**(1252)	**980**(942)	**660**(622)

Initial and intermediate approach as directed by radar.



MAPt 1NM after RTR

MAX 210KIAS. Continuous climb to **3000**: Initially straight ahead to **2500**, then right turn to **NDB(L) PIK** to hold at **3000** or as directed.

UNABLE TO RECEIVE NDB:
Climb on Runway Heading to **3000**, then a climbing right turn to **VOR TRN** to **6000** to hold or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**570**(532)	**570**(532)	**570**(532)	**570**(532)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**750**(685)	**870**(805)	**1000**(935)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	830	730	620	520	420
RTR to MAPt (1NM)	MIN:SEC	0:23	0:26	0:30	0:36	0:45

CHANGE (5/24): MINIMA.

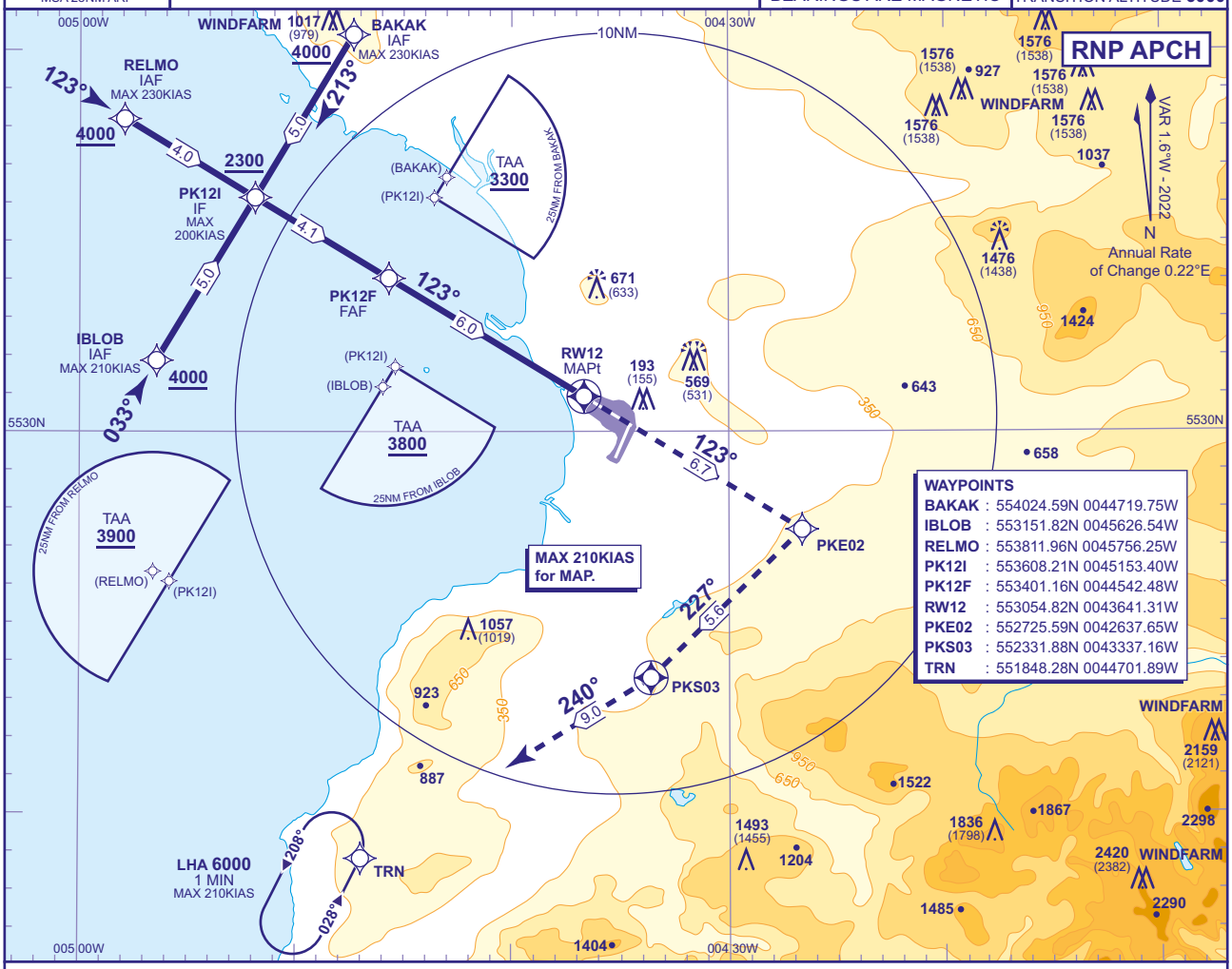
AERO INFO DATE 20 FEB 24

INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
RNP
RWY 12
(ACFT CAT A,B,C,D)

39	APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65
MSA 25NM ARP	TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	38
	RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2382) (ABOVE THR)	
	ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC	

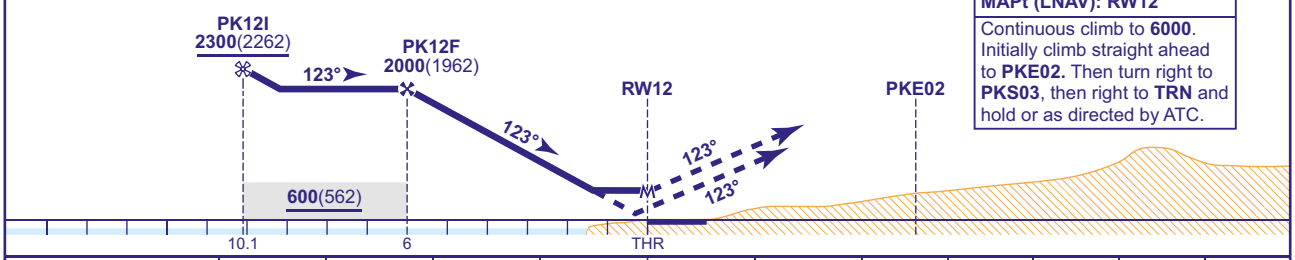
MIN TEMP -15°C
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE VNAV Vertical Path Angle 3.0°(LNAV 5.24%), 320FT/NM

NM to RW12	5	4	3	2	1
ALT(HGT)	**1680**(1642)	**1360**(1322)	**1050**(1012)	**730**(692)	**410**(372)

TCH 53



MAPt (LNAV): RW12
Continuous climb to **6000**. Initially climb straight ahead to **PKE02.** Then turn right to **PKS03**, then right to **TRN** and hold or as directed by ATC.

Aircraft Category		A	B	C	D
OCA (OCH)	LNAV/VNAV	**340**(302)	**350**(312)	**370**(332)	**400**(362)
	LNAV	**420**(382)	**420**(382)	**420**(382)	**420**(382)
VM(C)OCA (OCH AAL)	Total Area	**750**(685)	**870**(805)	**1070**(1005)	**1070**(1005)
	SW of RWY 12/30	**680**(615)	**810**(745)	**910**(845)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

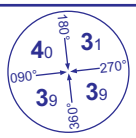
NOTE Portions of this procedure lie outside controlled airspace.

CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 13 MAY 25
AD 2-EGPK-8-4

INSTRUMENT APPROACH CHART - ICAO

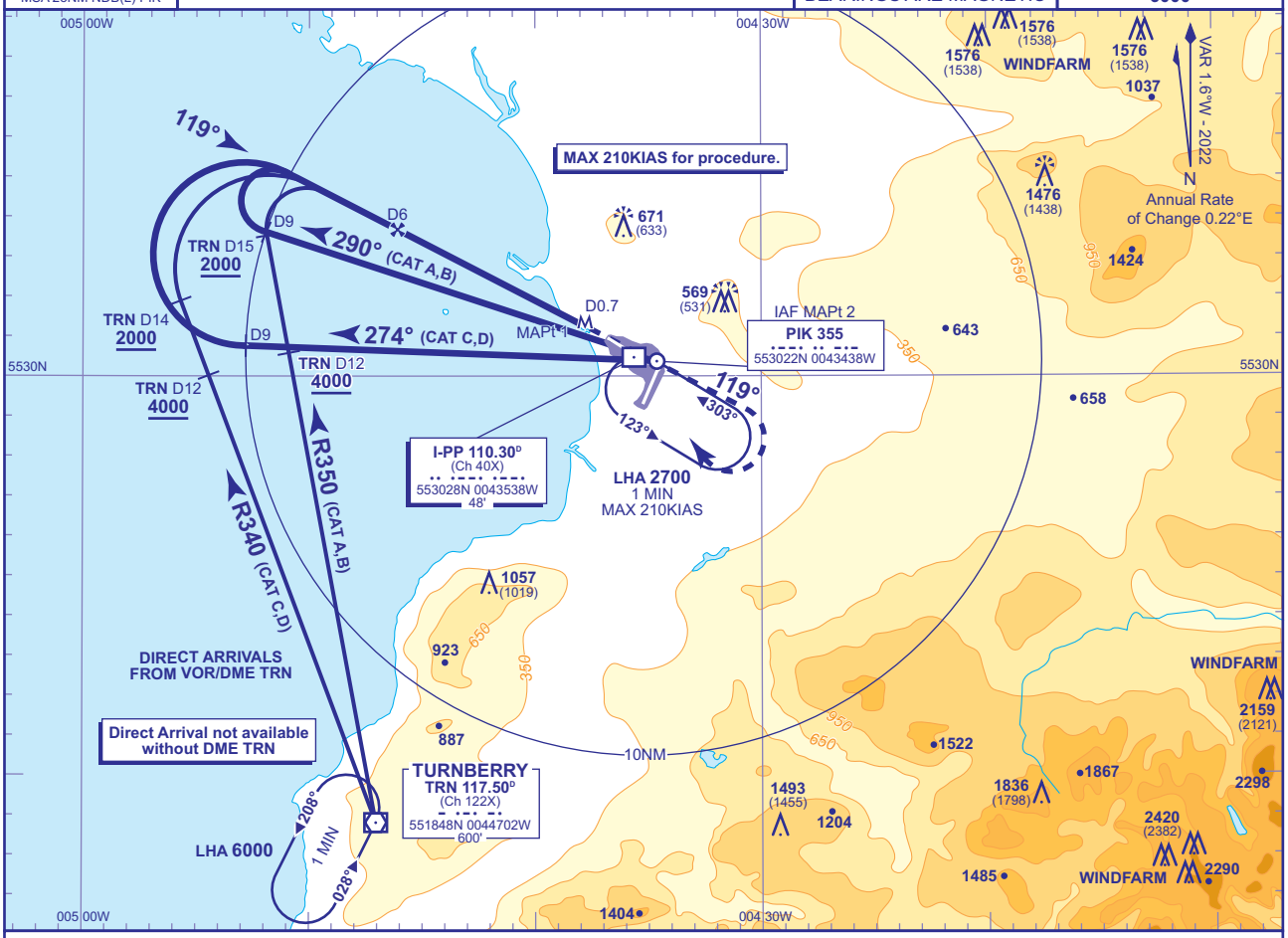
PRESTWICK NDB(L)/DME RWY 12
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

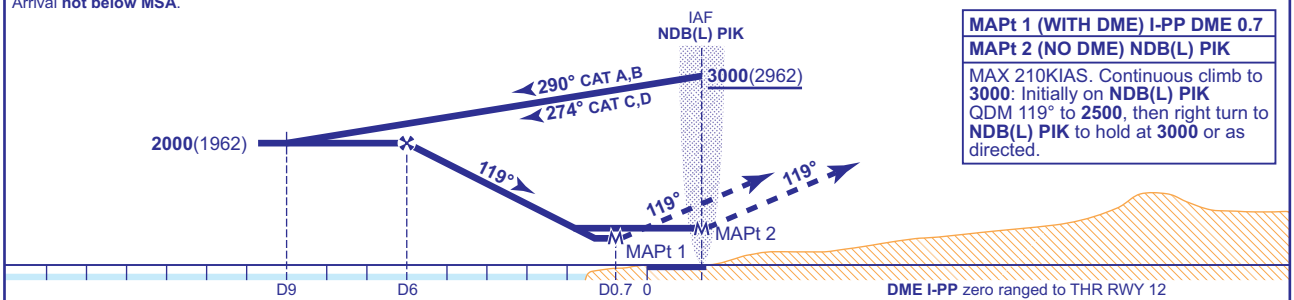
APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	38	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION	2420 AMSL (2382) (ABOVE THR)	
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM					
DME I-PP	6	5	4	3	2
ALT(HGT)	**2000**(1962)	**1680**(1642)	**1360**(1322)	**1050**(1012)	**730**(692)

Arrival **not below MSA**.



MAPt 1 (WITH DME) I-PP DME 0.7
MAPt 2 (NO DME) NDB(L) PIK

MAX 210KIAS. Continuous climb to **3000**: Initially on **NDB(L) PIK** QDM 119° to **2500**, then right turn to **NDB(L) PIK** to hold at **3000** or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**DME**	**450**(412)	**450**(412)	**450**(412)	**450**(412)
	NO DME	**590**(552)	**590**(552)	**590**(552)	**590**(552)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**700**(635)	**810**(745)	**1000**(935)	**1070**(1005)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME
Main procedure: Fly outbound leg of racetrack for 3 MIN (CAT A,B) or 2.5 MIN (CAT C,D) prior to inbound turn.

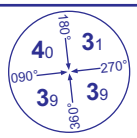
NOTE 1 FAT is offset 3.8° south of RWY C/L and intercepts the extended C/L 0.75NM before the THR RWY 12.
2 To expedite the procedure, aircraft captains may, at their discretion and subject to ATC approval, commence the procedure from NDB(L) PIK at **4000** instead of the usual **3000**.

CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 13 MAY 25

INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
SRA RTR 2NM
RWY 20
(ACFT CAT A,B,C,D)

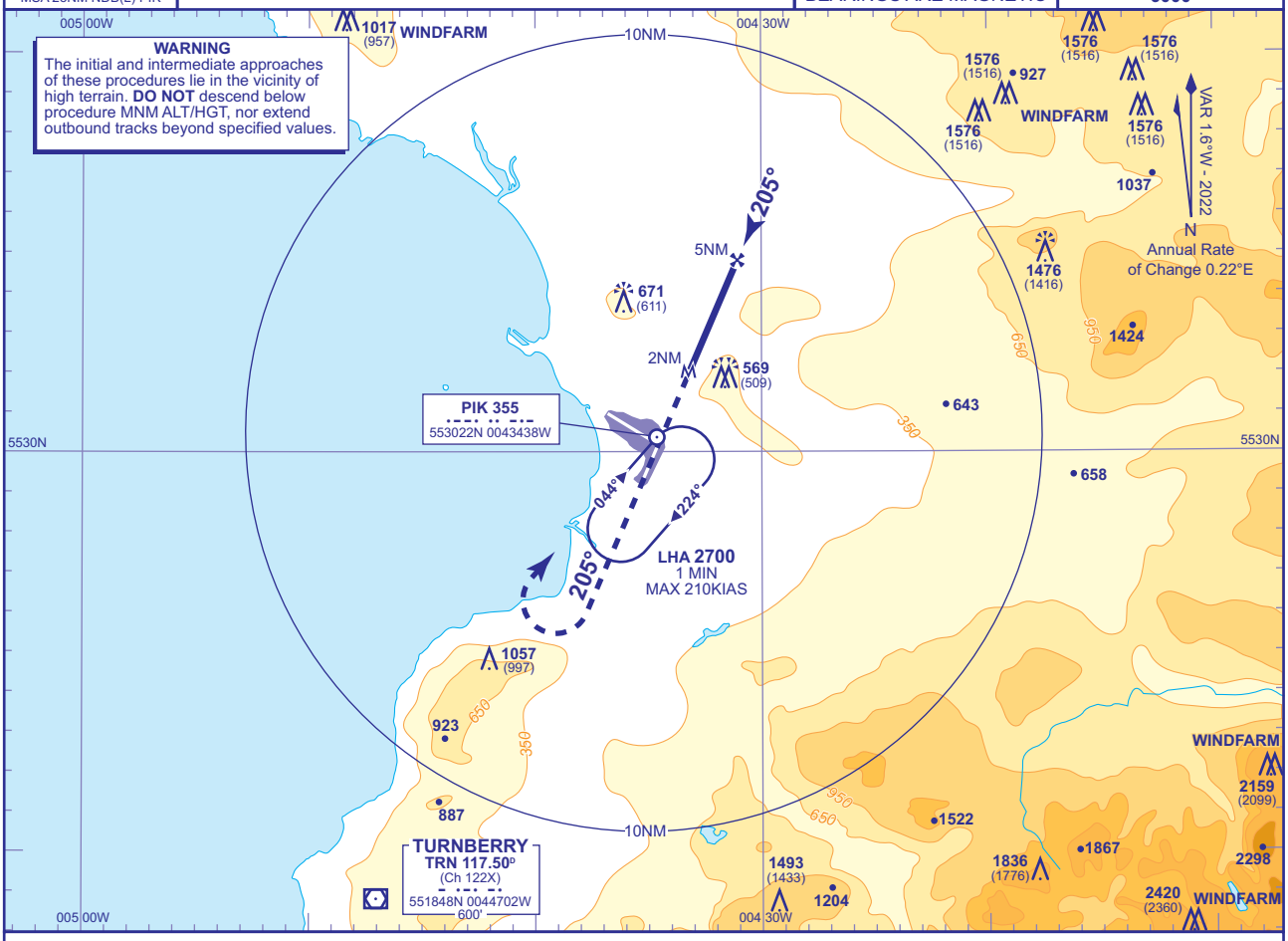


MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	
TWR	118.150, 127.155	PRESTWICK TOWER	
RAD	129.450, 124.630	PRESTWICK RADAR	
ATIS	121.130	PRESTWICK INFORMATION	

AD ELEVATION	**65**
THR ELEVATION	**60**
OBSTACLE ELEVATION **2420 AMSL** (2360) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 6.39%, 390FT/NM

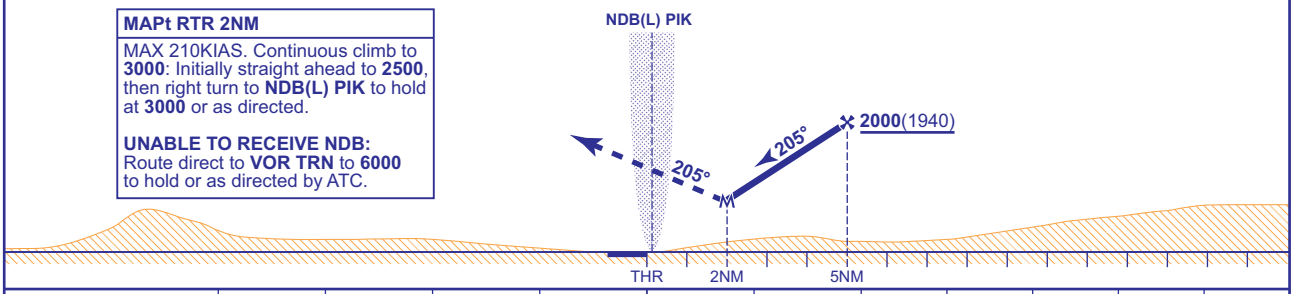
NM	5.0	4.0	3.0	2.0
ALT(HGT)	**2000**(1940)	**1610**(1550)	**1220**(1160)	**840**(780)

Initial and intermediate approach as directed by radar.

MAPt RTR 2NM

MAX 210KIAS. Continuous climb to **3000**: Initially straight ahead to **2500**, then right turn to **NDB(L) PIK** to hold at **3000** or as directed.

UNABLE TO RECEIVE NDB:
Route direct to **VOR TRN** to **6000** to hold or as directed by ATC.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**850**(790)	**850**(790)	**850**(790)	**850**(790)
VM(C)OCA (OCH AAL)	**Total Area**	**850**(785)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**850**(785)	**870**(805)	**1000**(935)	**1070**(1005)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	1030	910	780	650	520

NOTE Portions of this procedure lie outside controlled airspace. Initial and intermediate approach will be conducted under De-confliction Service.

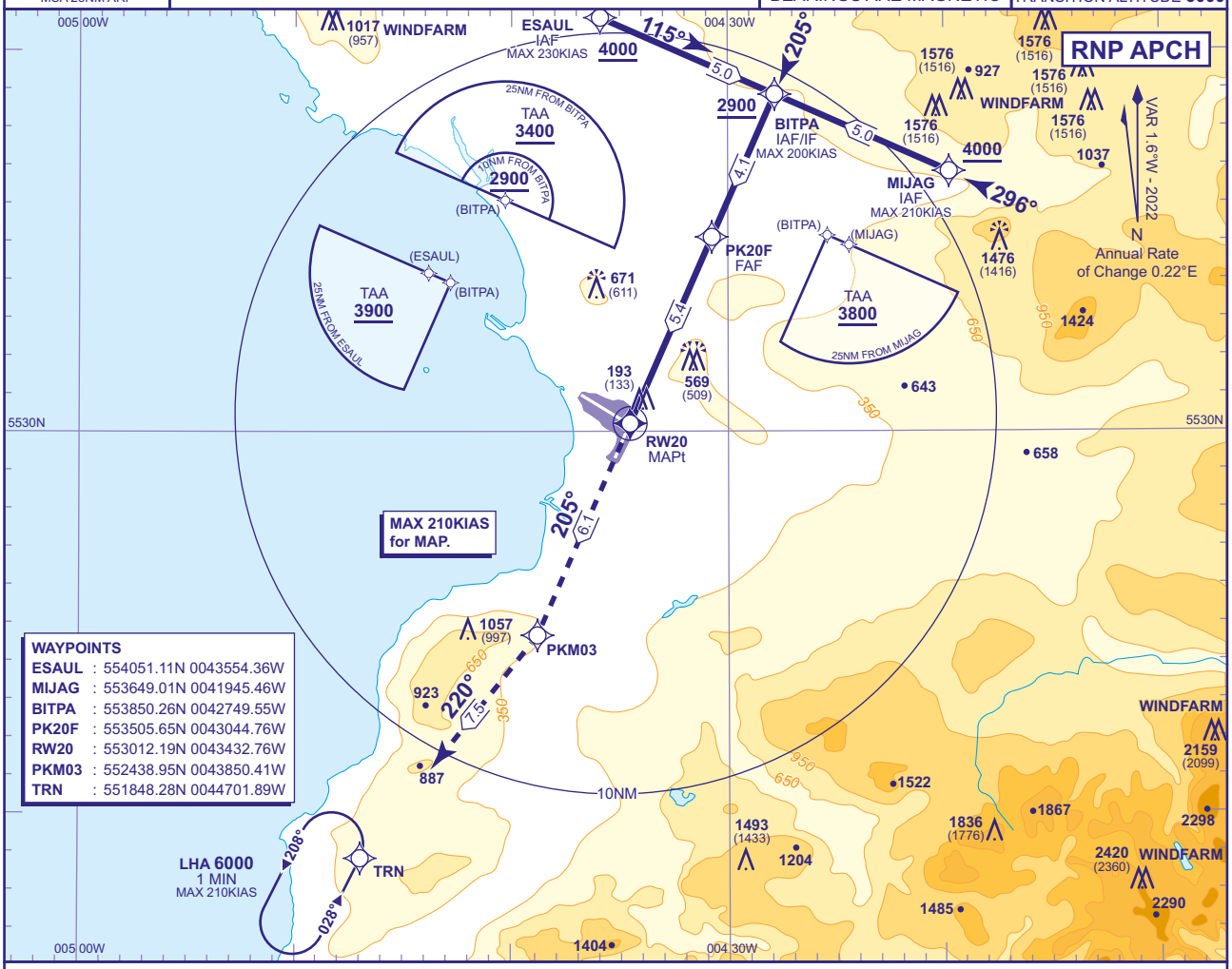
CHANGE (5/24): RWY DESIGNATOR. MINIMA.

INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
RNP
RWY 20
(ACFT CAT A,B,C,D)

3⁹ MSA 25NM ARP	APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65
	TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	60
	RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2360) (ABOVE THR)	
	ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC	

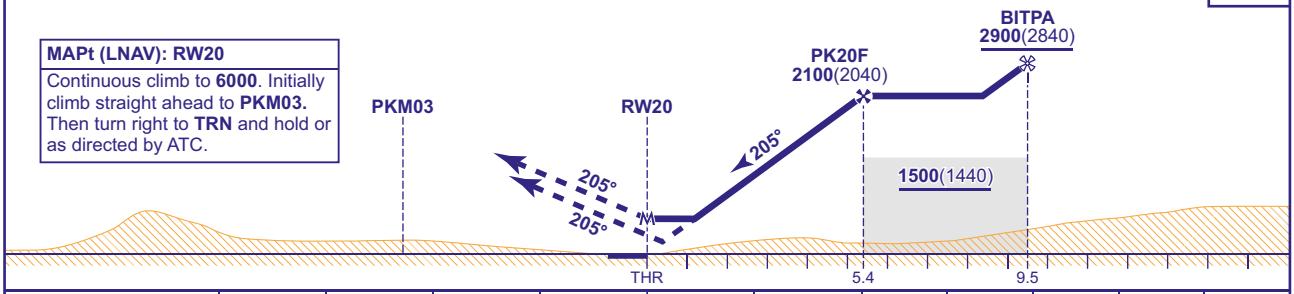
MIN TEMP -15°C
TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE VNAV Vertical Path Angle 3.5°(LNAV 6.12%), 370FT/NM

NM to RW20	4	3	2	1
ALT(HGT)	**1600**(1540)	**1220**(1160)	**850**(790)	**480**(420)

MAPt (LNAV): RW20
Continuous climb to **6000**. Initially climb straight ahead to **PKM03.** Then turn right to **TRN** and hold or as directed by ATC.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**610**(550)	**620**(560)	**640**(580)	**650**(590)		FT/MIN	990	870	740	620	500
	LNAV	**710**(650)	**710**(650)	**710**(650)	**710**(650)							
VM(C)OCA (OCH AAL)	Total Area	**750**(685)	**870**(805)	**1070**(1005)	**1070**(1005)							

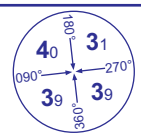
NOTE 1 VPA exceeds 3.5° above 15°C.
2 Portions of this procedure lie outside controlled airspace.

CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 13 MAY 25
AD 2-EGPK-8-7

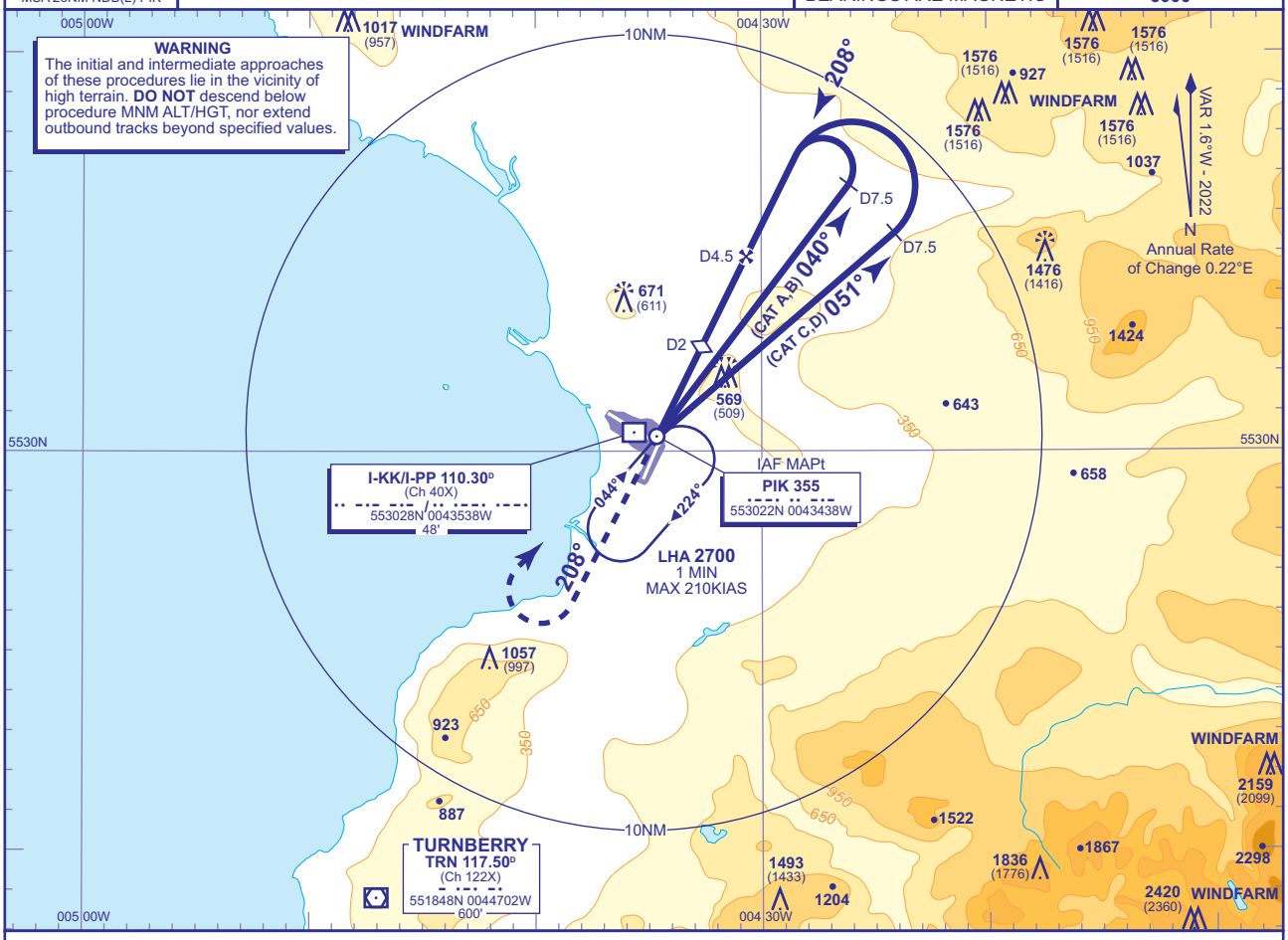
INSTRUMENT APPROACH CHART - ICAO

PRESTWICK NDB(L)/DME RWY 20
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	60	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION	2420 AMSL (2360) (ABOVE THR)	
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000

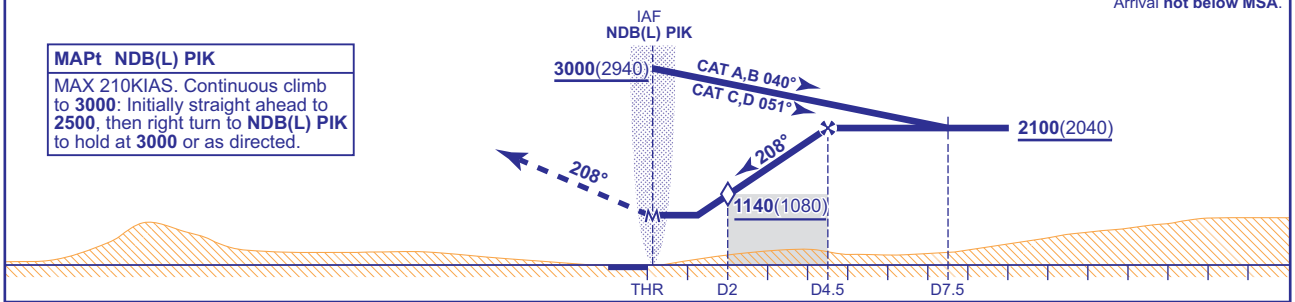


RECOMMENDED PROFILE Gradient 6.3%, 383FT/NM

DME I-KK/I-PP	4	3	2 **(SDF)**	1
ALT(HGT)	**1910**(1850)	**1530**(1470)	**1140**(1080)	**760**(700)

Arrival **not below MSA**.

MAPt NDB(L) PIK
MAX 210KIAS. Continuous climb to **3000**: Initially straight ahead to **2500**, then right turn to **NDB(L) PIK** to hold at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	WITH DME	**820**(760)	**820**(760)	**870**(810)	**870**(810)
	NO DME	**1500**(1440)	**1500**(1440)	**1500**(1440)	**1500**(1440)
VM(C)OCA (OCH AAL)	Total Area	**1500**(1435)	**1500**(1435)	**1500**(1435)	**1500**(1435)
	SW of RWY 12/30	**1500**(1435)	**1500**(1435)	**1500**(1435)	**1500**(1435)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1020	890	770	640	510

AIRCRAFT UNABLE TO RECEIVE DME
From overhead NDB(L) PIK **not below 3000**(2940) fly outbound on track 040° for 2.5 MIN (CAT A,B); on track 051° for 2 MIN at MAX 185KIAS (CAT C,D) descending to **not below 2100**(2040) then turn left to establish on the FAT. Once established, descend to MDA(H).

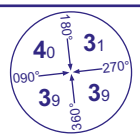
NOTE 1 FAT is offset 2.8° west of RWY CL and intercepts the extended CL 2.4NM (I-PP/I-KK DME 1.7) from the THR RWY 20.
2 Due to siting geometry of NDB(L) PIK and DME I-KK/I-PP, DME 1 occurs nominally 1.6NM before the THR RWY 20. DME arcs become tangential to FAT at short ranges so DME information should not be used after 1 DME.
3 The procedure design Rate of Descent in the final approach exceeds the maximum permissable for straight-in approaches. Published OCA(OCH) are therefore based on VM(C) values.
4 Portions of this procedure lie outside controlled airspace.

CHANGE (5/24): RWY DESIGNATOR. MINIMA.

AERO INFO DATE 20 FEB 24 AD 2-EGPK-8-8

INSTRUMENT APPROACH CHART - ICAO

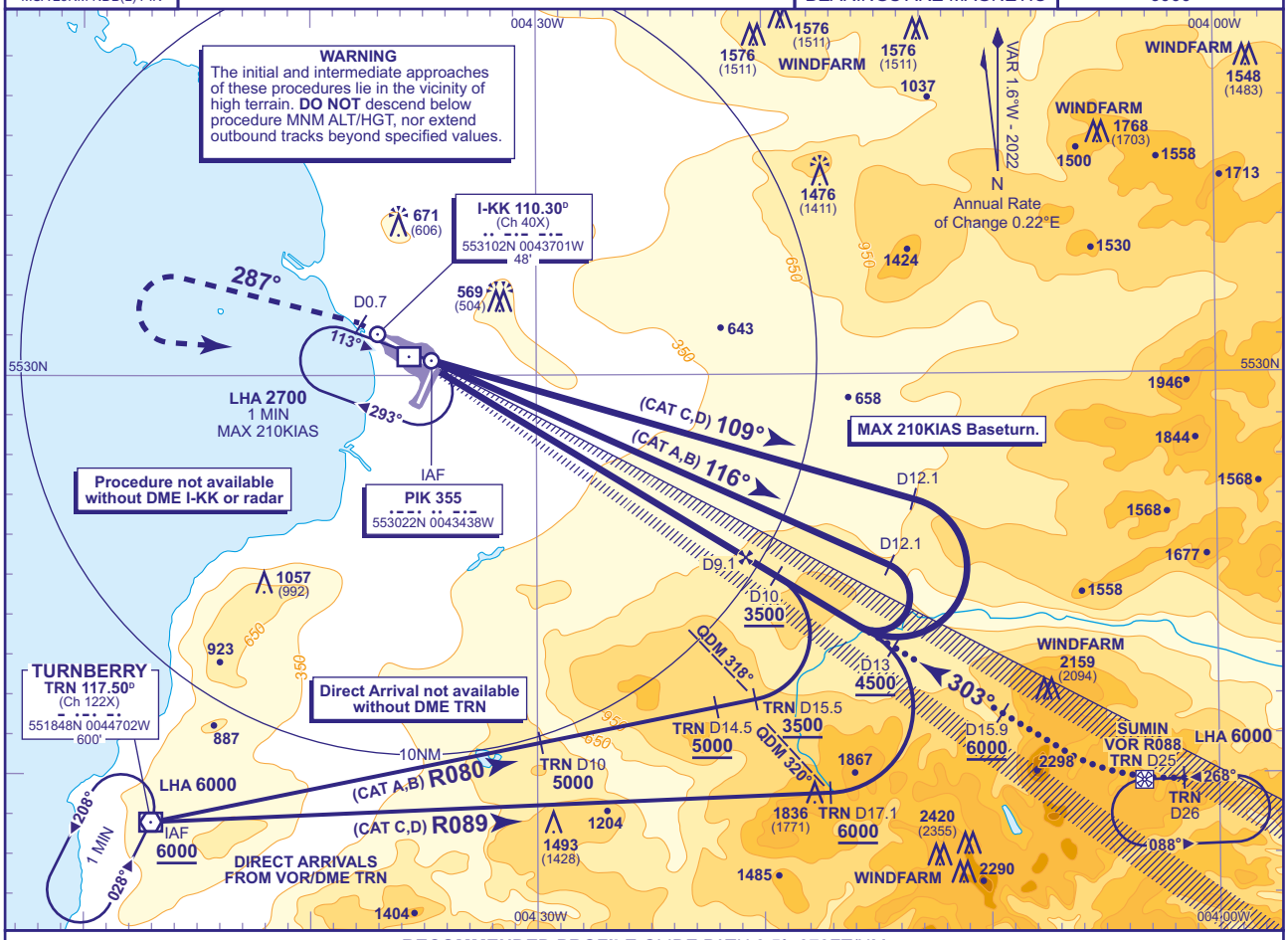
PRESTWICK
ILS/DME/NDB(L)
RWY 30
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	65	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION	2420 AMSL (2355) (ABOVE THR)	
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**

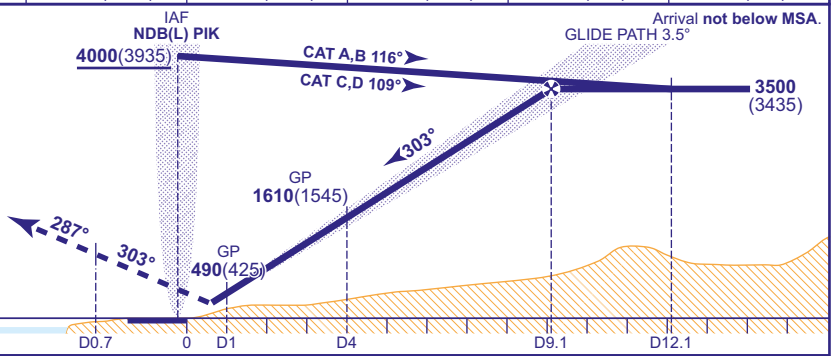


RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-KK	7	6	5	4	3	2	1
ALT(HGT)	**2720**(2655)	**2350**(2285)	**1980**(1915)	**1610**(1545)	**1240**(1175)	**860**(795)	**490**(425)

RDH 56

Continuous climb to **3500.**
Initially, straight ahead to **I-KK** D0.7 outbound, then climbing turn left onto track 287° continuing climb to **2500**, then climbing turn left to **NDB(L) PIK** to hold at **3500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**296**(231)	**309**(244)	**322**(257)	**332**(267)
VM(C)OCA (OCH AAL)	Total Area	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**640**(575)	**710**(645)	**1000**(935)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	980	860	740	620	490

ALTERNATIVE PROCEDURE Approach SUMIN (IAF) on the inbound track of the SUMIN hold **not below 6000**. At TRN DME 26 turn right to establish on the LOC. Once established, descend from I-KK DME 15.9 following the recommended profile to **3500**(3435). From the nominal FAP (I-KK DME 9.1) **not below 3500**(3435) continue descent on the glide path to DA(H).

NOTES 1 Alternative procedure from SUMIN is based on 6.1% gradient CDA from **6000** to the FAP. To ensure CAS containment aircraft must not descend below the following ALT/HGT: I-KK DME 13 - **4500**(4435) I-KK DME 10 - **3500**(3435).
2 Direct arrivals are subject to prior approval from ATC.
3 Aircraft re-commencing the procedure after a missed approach can start the initial approach at **3500**.

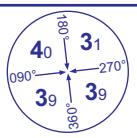
CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 19 MAY 25

AD 2-EGPK-8-9

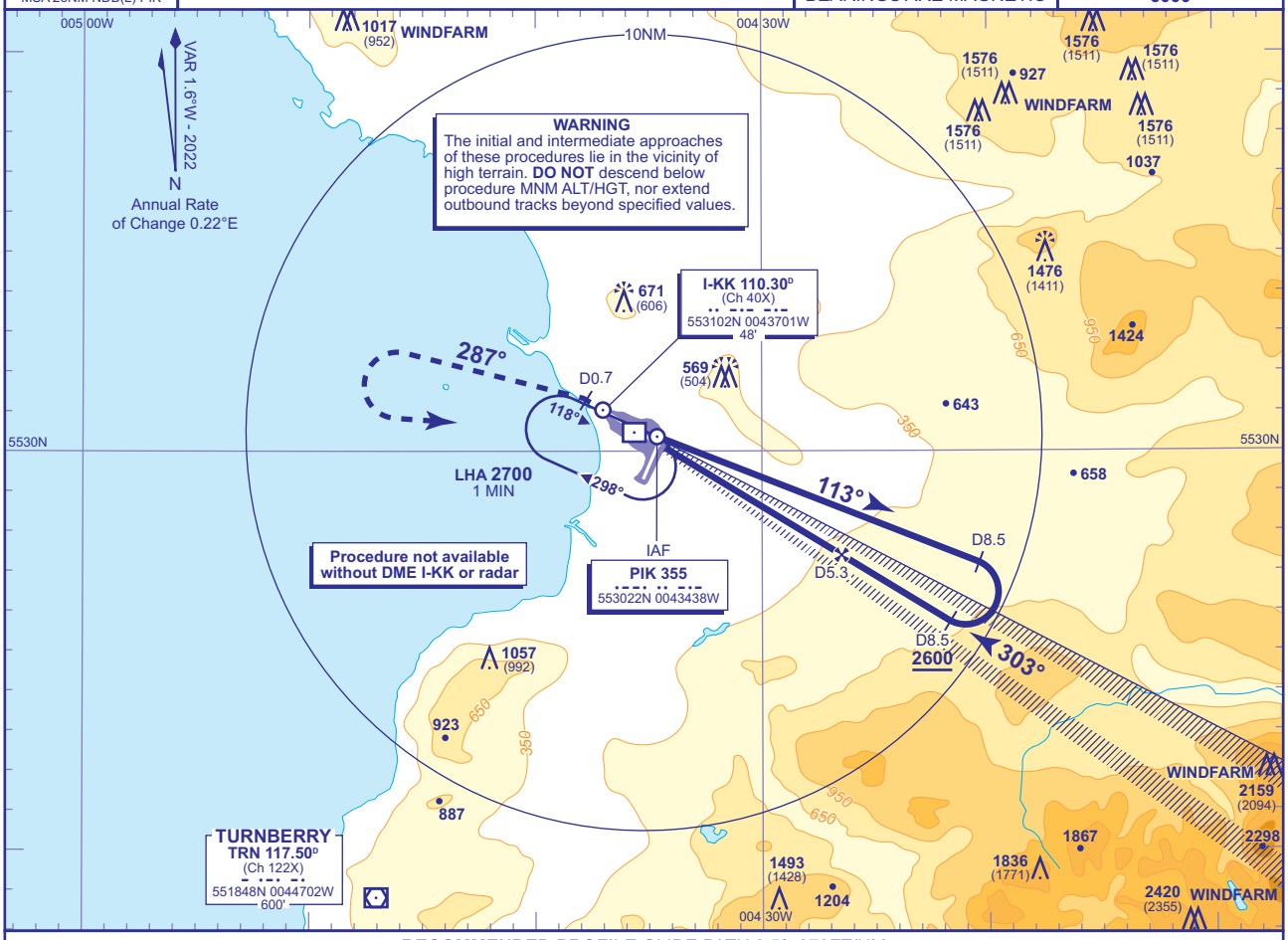
INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
ILS/DME/NDB(L)
RWY 30
(ACFT CAT A,B)
SHORT PROCEDURE



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	TRANSITION ALTITUDE 6000
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	65	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2355) (ABOVE THR)		
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		



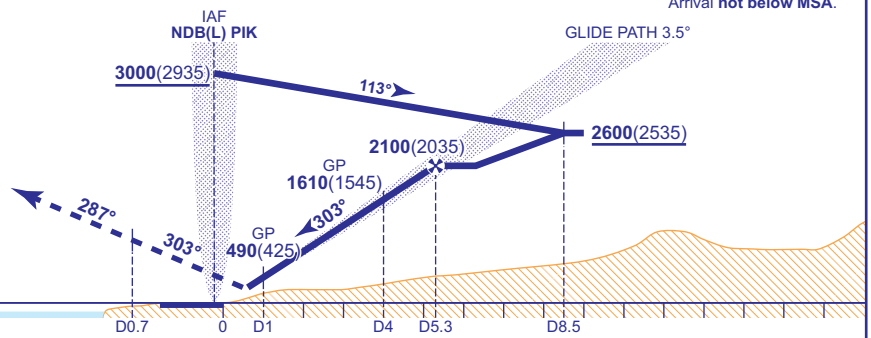
RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-KK	5	4	3	2	1
ALT(HGT)	**1980**(1915)	**1610**(1545)	**1240**(1175)	**860**(795)	**490**(425)

RDH 56

Arrival **not below MSA**.

Continuous climb to **3000.** Initially, straight ahead to **I-KK** D0.7 outbound, then climbing turn left onto track 287° continuing climb to **2500**, then climbing turn left to **NDB(L) PIK** to hold at **3000** or as directed.



Aircraft Category		A	B
OCA (OCH)	**CAT I**	**294**(229)	**307**(242)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(735)	**900**(835)
	SW of RWY 12/30	**640**(575)	**710**(645)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	740	620	500

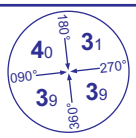
NOTE Procedure only available with prior approval from ATC.

CHANGE (5/24): D8.5 HEIGHT RESTRICTION ADDED. PROFILE DESCENT IAF TO FAF. MINIMA.

AERO INFO DATE 23 FEB 24

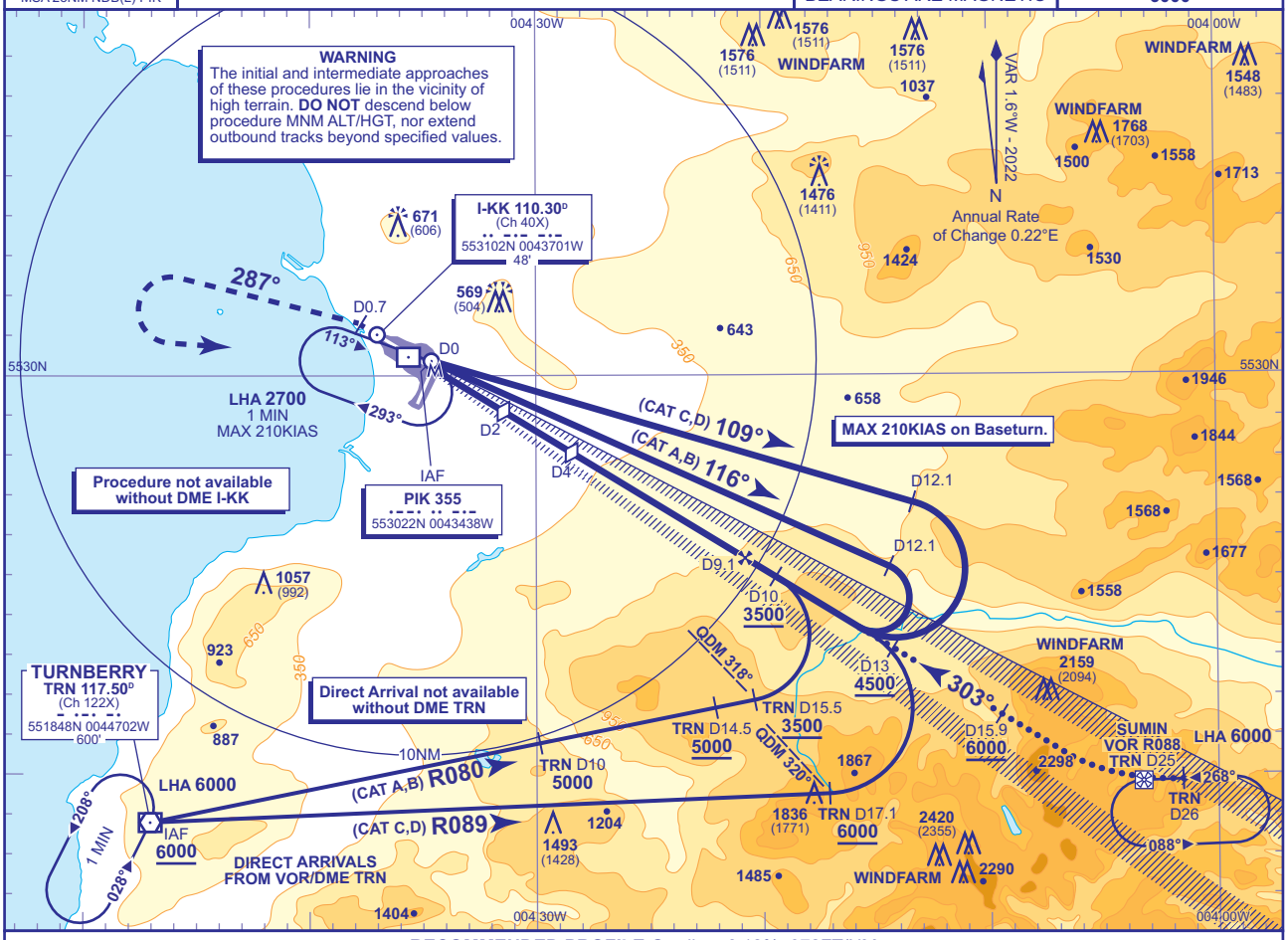
INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
LOC/DME/NDB(L)
RWY 30
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	TRANSITION ALTITUDE 6000
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	65	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2355) (ABOVE THR)		
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		

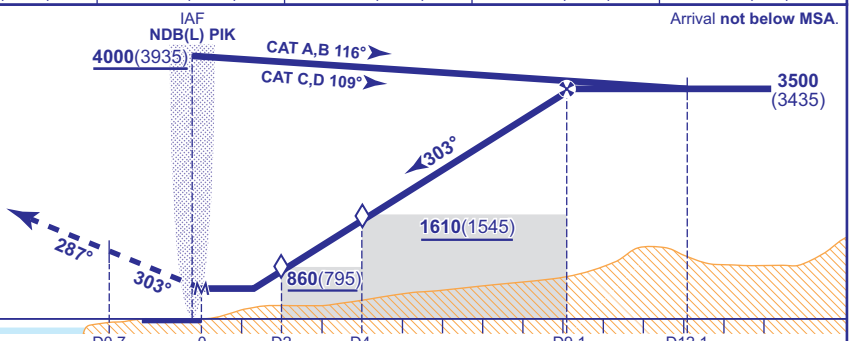


RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

DME I-KK	7	6	5	4 (SDF)	3	2 (SDF)
ALT(HGT)	**2720**(2665)	**2350**(2285)	**1980**(1915)	**1610**(1545)	**1240**(1175)	**860**(795)

MAPt I-KK DME ZERO
(THR RWY 30)

Continuous climb to **3500**. Initially, straight ahead to **I-KK** D0.7 outbound, the climbing turn left onto track 287° continuing climb to **2500**, then climbing turn left to **NDB(L) PIK** to hold at **3500** or as directed.



Arrival **not below MSA**.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**540**(475)	**540**(475)	**540**(475)	**540**(475)
VM(C)OCA (OCH AAL)	Total Area	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**640**(575)	**710**(645)	**1000**(935)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE PROCEDURE
Approach SUMIN (IAF) on the inbound track of the SUMIN hold **not below 6000**. At TRN DME 26 turn right to establish on the LOC. Once established, descend from I-KK DME 15.9 following the recommended profile to **3500**(3435). From the nominal FAF (I-KK DME 9.1) **not below 3500**(3435) continue descent following recomended profile to MDA(H).

NOTES 1 Alternative procedure from SUMIN is based on 6.1% gradient CDA from **6000** to the FAF. To ensure CAS containment aircraft must not descend below the following ALT/HGT: I-KK DME 13 - **4500**(4435) I-KK DME 10 - **3500**(3435).
2 Aircraft re-commencing the procedure after a missed approach can start the initial approach at **3500**.

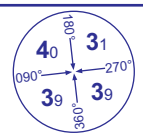
CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 19 MAY 25

AD 2-EGPK-8-11

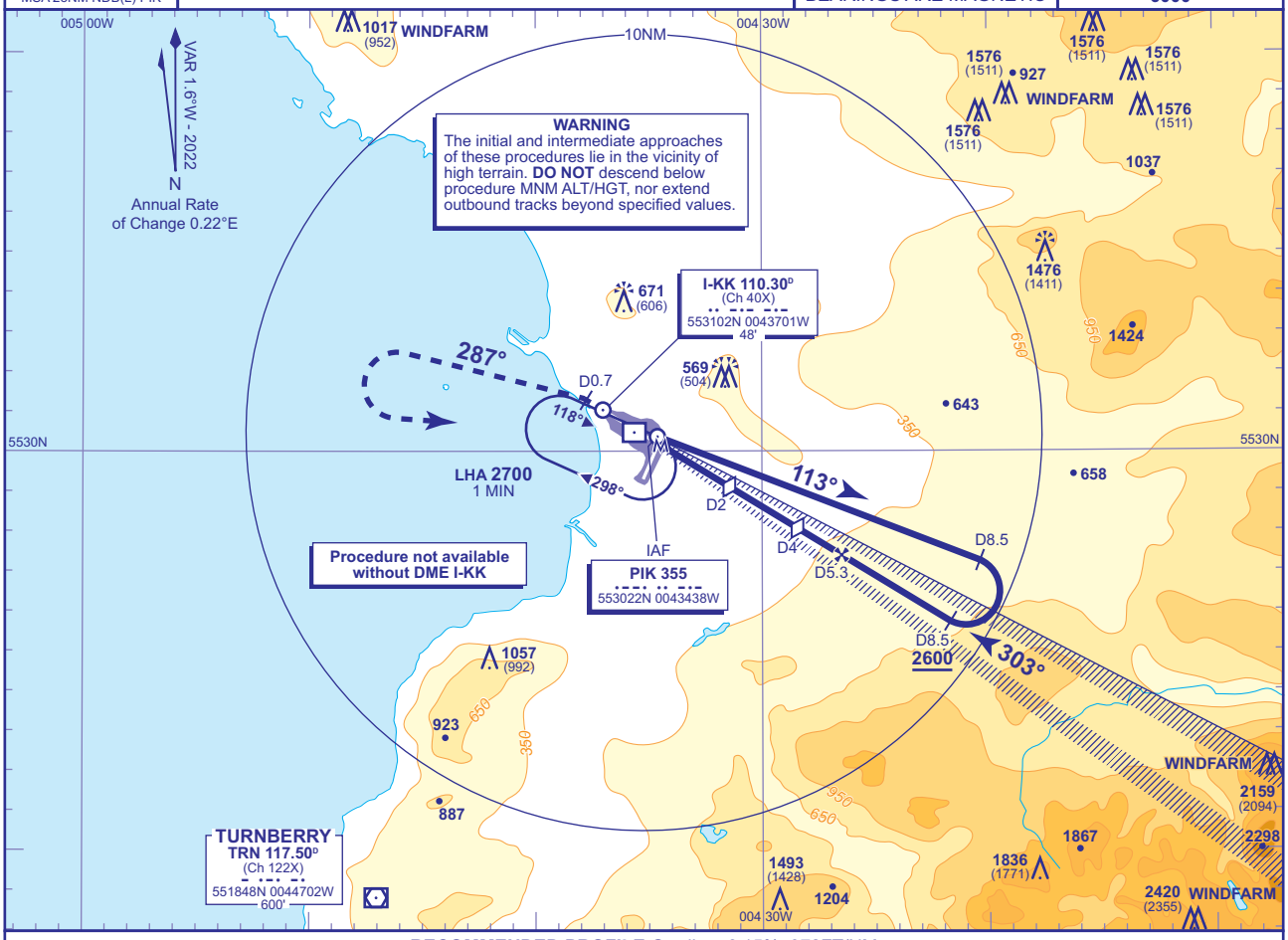
INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
LOC/DME/NDB(L)
RWY 30
(ACFT CAT A,B)
SHORT PROCEDURE



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	TRANSITION ALTITUDE **6000**
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	65	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION **2420 AMSL** (2355) (ABOVE THR)		
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		

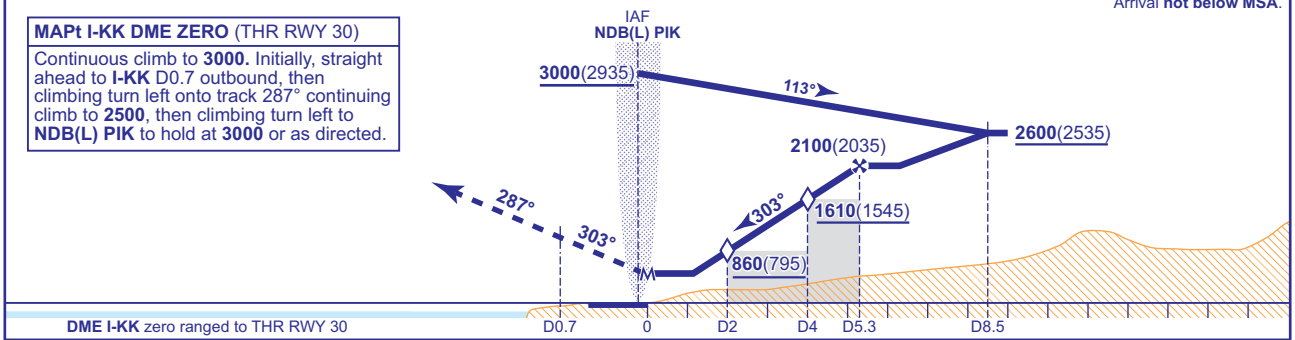


RECOMMENDED PROFILE Gradient 6.15%, 372FT/NM

DME I-KK	5	4 **(SDF)**	3	2 **(SDF)**
ALT(HGT)	**1990**(1925)	**1610**(1545)	**1240**(1175)	**860**(795)

Arrival **not below MSA**.

MAPt I-KK DME ZERO (THR RWY 30)
Continuous climb to **3000.** Initially, straight ahead to **I-KK** D0.7 outbound, then climbing turn left onto track 287° continuing climb to **2500**, then climbing turn left to **NDB(L) PIK** to hold at **3000** or as directed.



Aircraft Category		A	B
OCA (OCH)	**Procedure**	**540**(475)	**540**(475)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(735)	**900**(835)
	SW of RWY 12/30	**640**(575)	**710**(645)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1000	870	750	620	500

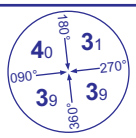
NOTE Procedure only available with prior approval from ATC.

CHANGE (5/24): D8.5 HEIGHT RESTRICTION ADDED. PROFILE DESCENT IAF TO FAF. MINIMA.

AERO INFO DATE 23 FEB 24

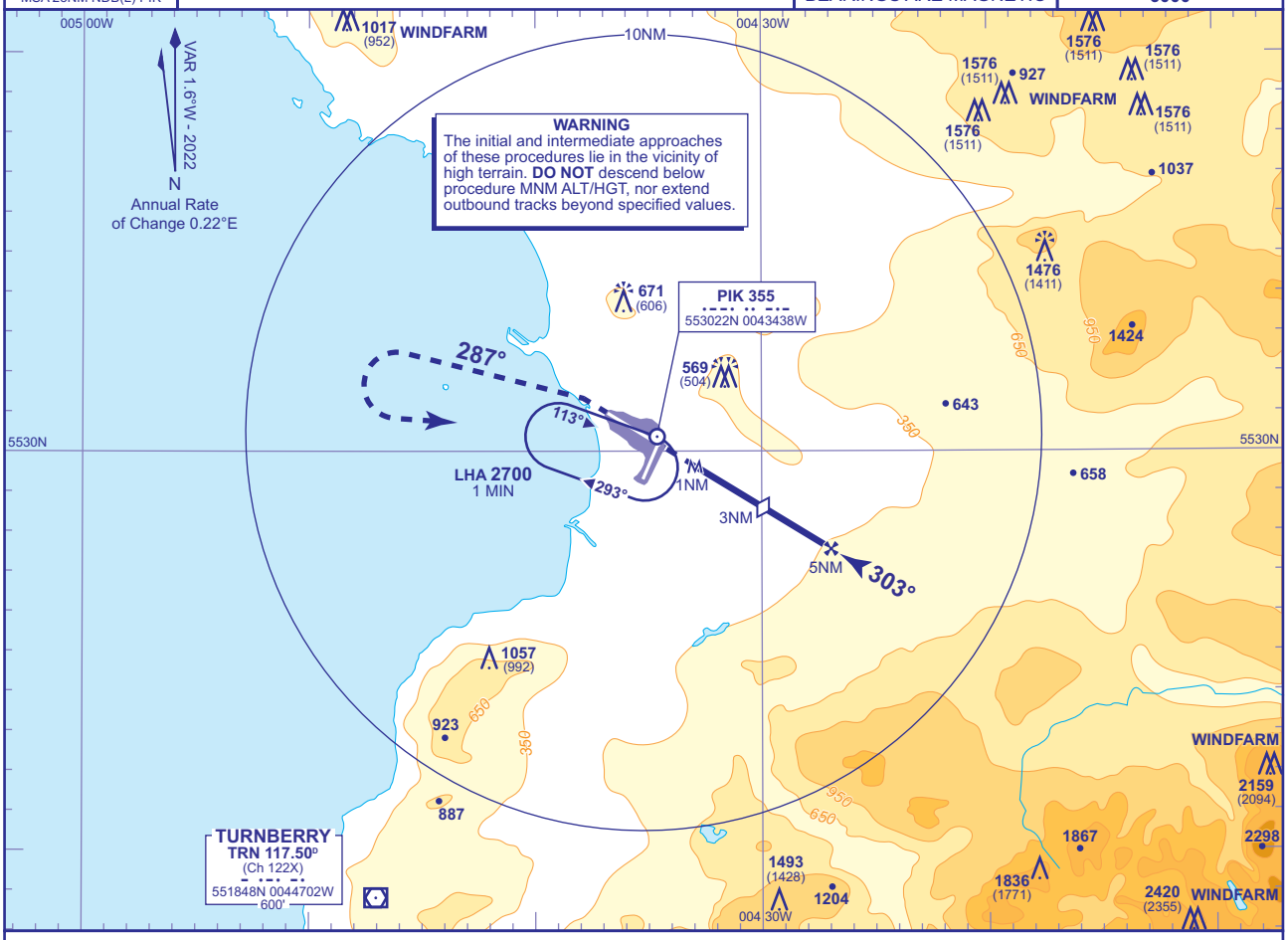
INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
SRA RTR 2NM
RWY 30
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65	TRANSITION ALTITUDE 6000
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	65	
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2355) (ABOVE THR)		
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC		



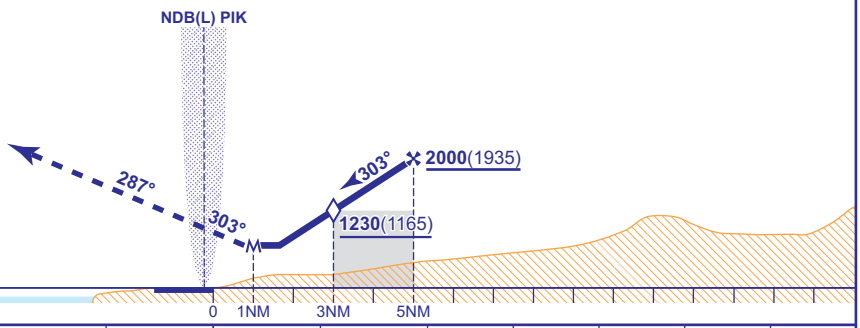
RADAR ADVISORY HEIGHTS Gradient 6.37%, 390FT/NM

NM	5	4	3 (SDF)	2
ALT(HGT)	**2000**(1935)	**1610**(1545)	**1230**(1165)	**840**(775)

Initial and intermediate approach as directed by radar.

MAPt 1NM after RTR

Continuous climb to **3000** Initially, straight ahead to **1300** then climbing turn left onto track 287° continuing to **2500** then climbing turn left to **NDB(L) PIK** to hold at **3000** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**760**(695)	**760**(695)	**760**(695)	**760**(695)
VM(C)OCA (OCH AAL)	Total Area	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**760**(695)	**810**(745)	**1070**(1005)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1030	900	770	640	520

CHANGE (5/24): MINIMA.

AERO INFO DATE 20 FEB 24

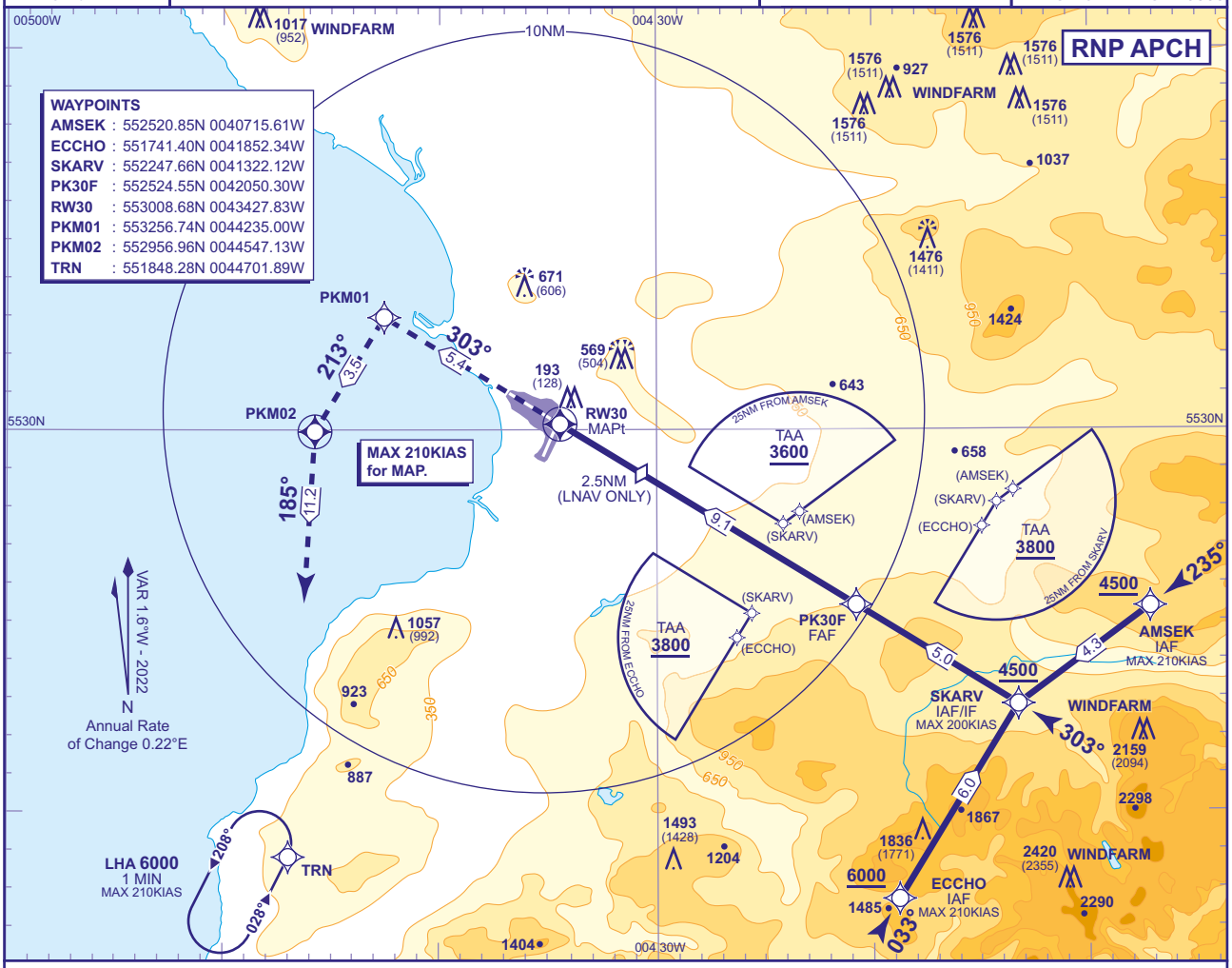
AD 2-EGPK-8-13

INSTRUMENT APPROACH CHART - ICAO

PRESTWICK
RNP
RWY 30
(ACFT CAT A,B,C,D)

39 MSA 25NM ARP	APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65
	TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	65
	RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION 2420 AMSL (2355) (ABOVE THR)	
	ATIS	121.130	PRESTWICK INFORMATION		
				BEARINGS ARE MAGNETIC	

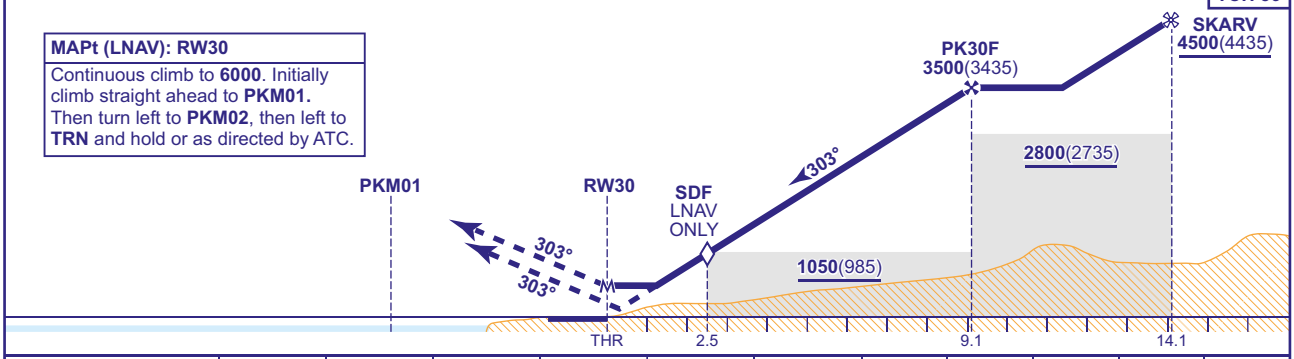
MIN TEMP **-15°C**
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE VNAV Vertical Path Angle 3.5°(LNAV 6.12%), 370FT/NM

NM to RW30	8	7	6	5	4	3	2.5 SDF	2	1
ALT(HGT)	**3090**(3025)	**2720**(2655)	**2350**(2285)	**1980**(1915)	**1610**(1545)	**1240**(1175)	**1050**(985)	**860**(795)	**490**(425)

MAPt (LNAV): RW30
Continuous climb to **6000**. Initially climb straight ahead to **PKM01**. Then turn left to **PKM02**, then left to **TRN** and hold or as directed by ATC.



Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	LNAV/VNAV	**420**(355)	**420**(355)	**430**(365)	**440**(375)		FT/MIN	990	870	740	620	500
	LNAV	**540**(475)	**540**(475)	**540**(475)	**540**(475)							
VM(C)OCA (OCH AAL)	Total Area	**750**(685)	**870**(805)	**1070**(1005)	**1070**(1005)							
	SW of RWY 12/30	**680**(615)	**810**(745)	**910**(845)	**1070**(1005)							

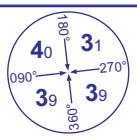
NOTE VPA exceeds 3.5° above 15°C.

CHANGE (8/25): TRN VOR RECALIBRATED.

AERO INFO DATE 13 MAY 25

INSTRUMENT APPROACH CHART - ICAO

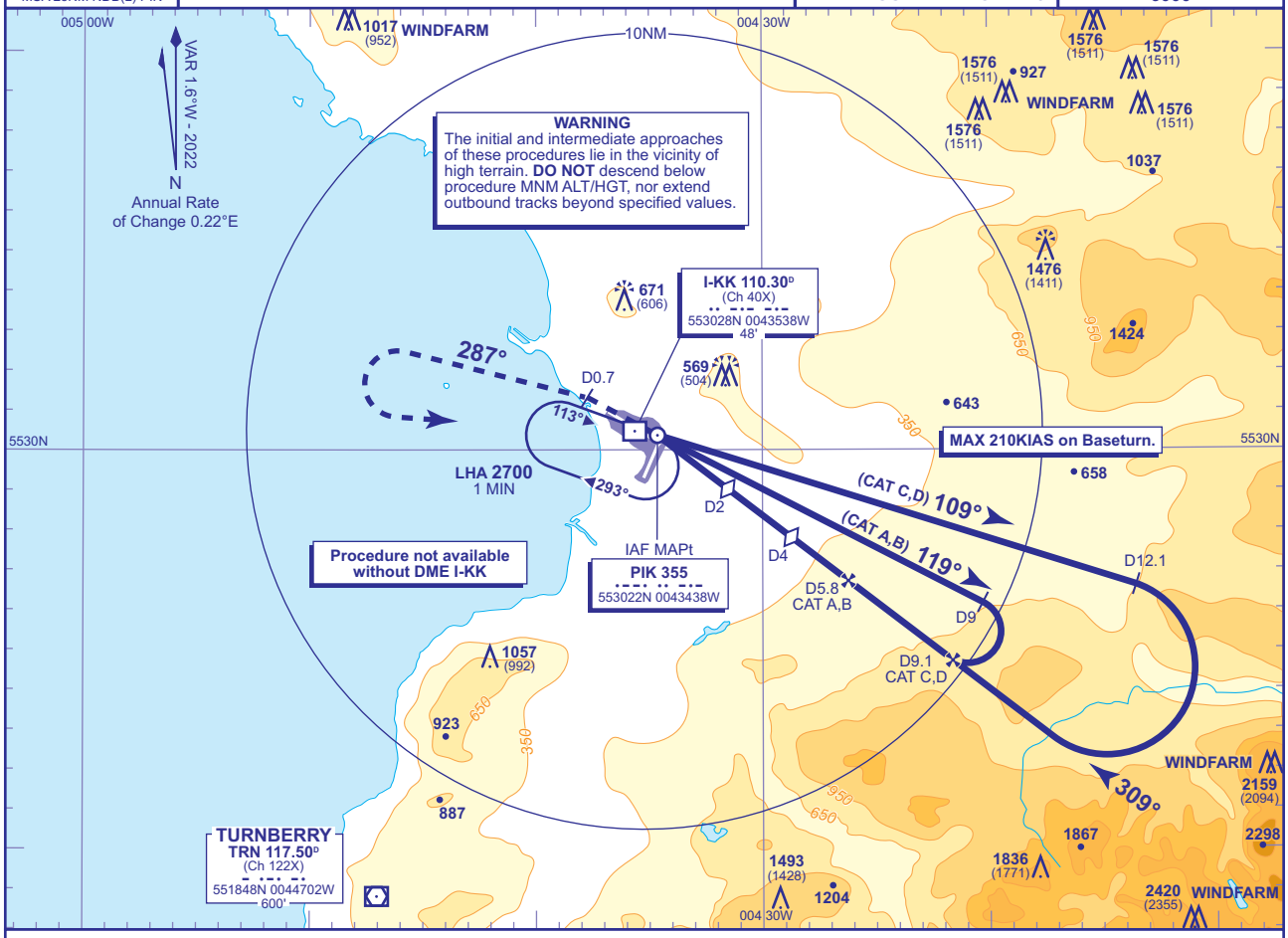
PRESTWICK NDB(L)/DME RWY 30
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) PIK

APP	129.450	PRESTWICK APPROACH	AD ELEVATION	65
TWR	118.150, 127.155	PRESTWICK TOWER	THR ELEVATION	65
RAD	129.450, 124.630	PRESTWICK RADAR	OBSTACLE ELEVATION	2420 AMSL (2355) (ABOVE THR)
ATIS	121.130	PRESTWICK INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**

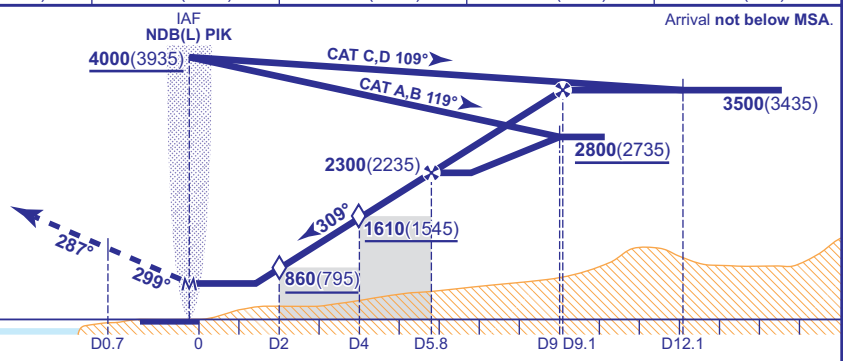


RECOMMENDED PROFILE Gradient 6.11%, 370FT/NM

DME I-KK	7	6	5	4 (SDF)	3	2 (SDF)
ALT(HGT)	**2720**(2655)	**2350**(2285)	**1980**(1915)	**1610**(1545)	**1240**(1175)	**860**(795)

MAPt NDB(L) PIK

Continuous climb to **3500.** Initially, on **NDB(L) PIK** QDM 299° to **I-KK** D0.7 outbound, then climbing turn left onto track 287° continuing climb to **2500**, then climbing turn left to **NDB(L) PIK** to hold at **3500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**600**(535)	**600**(535)	**600**(535)	**600**(535)
VM(C)OCA (OCH AAL)	Total Area	**800**(735)	**900**(835)	**1100**(1035)	**1100**(1035)
	SW of RWY 12/30	**700**(635)	**810**(745)	**1000**(935)	**1070**(1005)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	860	740	620	490

NOTES
1. FAT offset 5.8° south of extended RWY CL and intercepts the CL 1.1NM before THR.
2. Aircraft re-commencing the procedure after a missed approach can start the initial approach at **3500**.
3. No turns before MAPt.

CHANGE (5/24): CAT A/B PROFILE DESCENT IAF TO FAF. NOTE 3 ADDED. MINIMA.

AERO INFO DATE 23 FEB 24

Instrument Approach Procedure Coding Tables

Prestwick RNP RWY 12 - Instrument Approach Procedure via IBLOB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12R	001	IF	IBLOB	N	-	-	4000	210	553151.82N 0045626.54W	IAF
R12R	002	TF	PK12I	N	033° (031.1°)	RIGHT	2300	200	553608.21N 0045153.40W	IF / 10.1NM
R12R	003	TF	PK12F	N	123° (121.1°)	-	2000	-	553401.16N 0044542.48W	FAF / 6.0NM
R12R	004	TF	RW12	Y	123° (121.2°)	-	-	-	553054.82N 0043641.31W	MAPt
R12R	005	CF	PKE02	N	123° (121.3°)	RIGHT	-	210	552725.59N 0042637.65W	-
R12R	006	CF	PKS03	Y	227° (225.6°)	RIGHT	-	210	552331.88N 0043337.16W	-
R12R	007	DF	TRN	N	240° (238.4°)	-	6000	210	551848.28N 0044701.89W	HOLD

Prestwick RNP RWY 12 - Instrument Approach Procedure via RELMO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12C	001	IF	RELMO	N	-	-	4000	230	553811.96N 0045756.25W	IAF
R12C	002	TF	PK12I	N	123° (121.0°)	-	2300	200	553608.21N 0045153.40W	IF / 10.1NM
R12C	003	TF	PK12F	N	123° (121.1°)	-	2000	-	553401.16N 0044542.48W	FAF / 6.0NM
R12C	004	TF	RW12	Y	123° (121.2°)	-	-	-	553054.82N 0043641.31W	MAPt
R12C	005	CF	PKE02	N	123° (121.3°)	RIGHT	-	210	552725.59N 0042637.65W	-
R12C	006	CF	PKS03	Y	227° (225.6°)	RIGHT	-	210	552331.88N 0043337.16W	-
R12C	007	DF	TRN	N	240° (238.4°)	-	6000	210	551848.28N 0044701.89W	HOLD

Prestwick RNP RWY 12 - Instrument Approach Procedure via BAKAK

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R12L	001	IF	BAKAK	N	-	-	4000	230	554024.59N 0044719.75W	IAF
R12L	002	TF	PK12I	N	213° (211.2°)	LEFT	2300	200	553608.21N 0045153.40W	IF / 10.1NM
R12L	003	TF	PK12F	N	123° (121.1°)	-	2000	-	553401.16N 0044542.48W	FAF / 6.0 NM
R12L	004	TF	RW12	Y	123° (121.2°)	-	-	-	553054.82N 0043641.31W	MAPt
R12L	005	CF	PKE02	N	123° (121.3°)	RIGHT	-	210	552725.59N 0042637.65W	-
R12L	006	CF	PKS03	Y	227° (225.6°)	RIGHT	-	210	552331.88N 0043337.16W	-
R12L	007	DF	TRN	N	240° (238.4°)	-	6000	210	551848.28N 0044701.89W	HOLD

CHANGE (7/22): MAG TRACKS.
AERO INFO DATE 26 APR 22

Instrument Approach Procedure Coding Tables

Prestwick RNP RWY 20 - Instrument Approach Procedure via ESAUL

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20R	001	IF	ESAUL	N	-	-	4000	230	554051.11N 0043554.36W	IAF
R20R	002	TF	BITPA	N	115° (113.7°)	RIGHT	2900	200	553850.26N 0042749.55W	IF / 9.5NM
R20R	003	TF	PK20F	N	205° (203.8°)	-	2100	-	553505.65N 0043044.76W	FAF / 5.4NM
R20R	004	TF	RW20	Y	205° (203.8°)	-	-	-	553012.19N 0043432.76W	MAPt
R20R	005	CF	PKM03	N	205° (203.7°)	RIGHT	-	210	552438.95N 0043850.41W	-
R20R	006	TF	TRN	N	220° (218.7°)	-	6000	210	551848.28N 0044701.89W	HOLD

Prestwick RNP RWY 20 - Instrument Approach Procedure via BITPA

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20C	001	IF	BITPA	N	-	-	2900	200	553850.26N 0042749.55W	IAF / IF / 9.5NM
R20C	002	TF	PK20F	N	205° (203.8°)	-	2100	-	553505.65N 0043044.76W	FAF / 5.4NM
R20C	003	TF	RW20	Y	205° (203.8°)	-	-	-	553012.19N 0043432.76W	MAPt
R20C	004	CF	PKM03	N	205° (203.7°)	RIGHT	-	210	552438.95N 0043850.41W	-
R20C	005	TF	TRN	N	220° (218.7°)	-	6000	210	551848.28N 0044701.89W	HOLD

Prestwick RNP RWY 20 - Instrument Approach Procedure via MIJAG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20L	001	IF	MIJAG	N	-	-	4000	210	553649.01N 0041945.46W	IAF
R20L	002	TF	BITPA	N	296° (293.9°)	LEFT	2900	200	553850.26N 0042749.55W	IF / 9.5NM
R20L	003	TF	PK20F	N	205° (203.8°)	-	2100	-	553505.65N 0043044.76W	FAF / 5.4NM
R20L	004	TF	RW20	Y	205° (203.8°)	-	-	-	553012.19N 0043432.76W	MAPt
R20L	005	CF	PKM03	N	205° (203.7°)	RIGHT	-	210	552438.95N 0043850.41W	-
R20L	006	TF	TRN	N	220° (218.7°)	-	6000	210	551848.28N 0044701.89W	HOLD

CHANGE (6/25): R20L WAYPOINT UTITI RENAMED MIJAG.
AERO INFO DATE 25 MAR 25

Instrument Approach Procedure Coding Tables

Prestwick RNP RWY 30 - Instrument Approach Procedure via ECCHO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30L	001	IF	ECCHO	N	-	-	6000	210	551741.40N 0041852.34W	IAF
R30L	002	TF	SKARV	N	033° (031.5°)	LEFT	4500	200	552247.66N 0041322.12W	IF / 14.1NM
R30L	003	TF	PK30F	N	303° (301.6°)	-	3500	-	552524.55N 0042050.30W	FAF / 9.1NM
R30L	004	TF	RW30	Y	303° (301.5°)	-	-	-	553008.68N 0043427.83W	MAPt
R30L	005	CF	PKM01	N	303° (301.4°)	LEFT	-	210	553256.74N 0044235.00W	-
R30L	006	CF	PKM02	Y	213° (211.2°)	LEFT	-	210	552956.96N 0044547.13W	-
R30L	007	DF	TRN	N	185° (183.6°)	-	6000	210	551848.28N 0044701.89W	HOLD

Prestwick RNP RWY 30 - Instrument Approach Procedure via SKARV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30C	001	IF	SKARV	N	-	-	4500	200	552247.66N 0041322.12W	IAF/IF / 14.1NM
R30C	002	TF	PK30F	N	303° (301.6°)	-	3500	-	552524.55N 0042050.30W	FAF / 9.1NM
R30C	003	TF	RW30	Y	303° (301.5°)	-	-	-	553008.68N 0043427.83W	MAPt
R30C	004	CF	PKM01	N	303° (301.4°)	LEFT	-	210	553256.74N 0044235.00W	-
R30C	005	CF	PKM02	Y	213° (211.2°)	LEFT	-	210	552956.96N 0044547.13W	-
R30C	006	DF	TRN	N	185° (183.6°)	-	6000	210	551848.28N 0044701.89W	HOLD

Prestwick RNP RWY 30 - Instrument Approach Procedure via AMSEK

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R30R	001	IF	AMSEK	N	-	-	4500	210	552520.85N 0040715.61W	IAF
R30R	002	TF	SKARV	N	235° (233.7°)	RIGHT	4500	200	552247.66N 0041322.12W	IF / 14.1NM
R30R	003	TF	PK30F	N	303° (301.6°)	-	3500	-	552524.55N 0042050.30W	FAF / 9.1NM
R30R	004	TF	RW30	Y	303° (301.5°)	-	-	-	553008.68N 0043427.83W	MAPt
R30R	005	CF	PKM01	N	303° (301.4°)	LEFT	-	210	553256.74N 0044235.00W	-
R30R	006	CF	PKM02	Y	213° (211.2°)	LEFT	-	210	552956.96N 0044547.13W	-
R30R	007	DF	TRN	N	185° (183.6°)	-	6000	210	551848.28N 0044701.89W	HOLD

CHANGE (7/22): MAG TRACKS.
AERO INFO DATE 26 APR 22

EGKR — REDHILL

EGKR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGKR — REDHILL

EGKR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 511249N Long: 0000819W Mid point of Runway 07R/25L.
2	Direction and distance from city	1.5 NM SE of Redhill.
3	Elevation / Reference temperature / Mean Low Temperature	222 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	149 FT
5	Magnetic Variation / Annual Change	0.55°E (2022) / 0.19°E
6	AD Administration Address Telephone E-mail address	REDHILL AERODROME LTD Terminal Building, Redhill Aerodrome, Surrey, RH1 5YP. 01737-823377 (Administration) Mon-Fri 0900-1700 (0800-1600) 01737-821802 (ATC) 01737-821805 (Fuel) 01737-822947 (ATIS available H24) reception@redhillaerodrome.com (Administration) atc@redhillaerodrome.com (ATC) arffs@redhillaerodrome.com (ARFFS/Fuel)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	ATC telephone calls are recorded.

EGKR AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1800).
2	Customs and immigration	Available by arrangement. Submit GAR form via www.submit-general-aviation-report.service.gov.uk 4 hours notice required for inbound flights. Flights within the UK Common Travel Area require 24hrs notice to Surrey Police.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	0845-1715 (0745-1815).
8	Fuelling	0900-1630 (0800-1730); and by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGKR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (with AL48), AVGAS 100LL W80, W100
3	Fuelling facilities/capacity	AVTUR JET A-1 fixed installation 60,000 lt. Bowser 12,000 lt. AVGAS 100LL fixed installation 25,000 lt.
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGKR AD 2.5 PASSENGER FACILITIES

INTENTIONALLY BLANK

EGKR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFFS Category A2/H2.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGKR AD 2.7 SEASONAL AVAILABILITY - CLEARING

INTENTIONALLY BLANK

EGKR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	
2	Taxiway width, surface and strength	Taxiway A: 10 M Surface: Asphalt Taxiway B: 10 M Surface: Asphalt Taxiway C: 10 M Surface: Asphalt Taxiway C has a width of 10 M, except section marked as unlicensed Runway 06/24, which has a width of 14 M. Taxiway D: 10 M Surface: Asphalt Taxiway E: 10 M Surface: Asphalt Taxiway F: 7.5 M Surface: Concrete Taxiway G: Surface: Grass Taxiway H: 10 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGKR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Taxiway marking aid(s): Painted centre-line and hold markings on Taxiways A, B, C, D, E, F and H. Taxiway light(s): Runway Guard Lights at Holding Points A1 and B1.

3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 511253.19N 0000821.42W (LGTD).

EGKR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKR5823) 18/APPROACH 36/ TAKE-OFF	TREE	511408.44N 0000824.50W	519 FT		No	
(EGKR5828) 18/APPROACH 36/ TAKE-OFF	TREE	511407.54N 0000819.68W	538 FT		No	
(EGKR1134) 18/APPROACH 36/ TAKE-OFF	TREE	511354.78N 0000821.39W	459 FT		No	
(EGKR5754) 18/APPROACH 36/ TAKE-OFF	TREE	511320.28N 0000820.39W	275 FT		No	
(EGKR1373) 36/APPROACH 18/ TAKE-OFF	TREE	511252.90N 0000735.05W	266 FT		No	
(EGKR6121) 36/APPROACH 18/ TAKE-OFF	TREE	511236.10N 0000828.99W	217 FT		No	
(EGKR6098) 36/APPROACH 18/ TAKE-OFF	TREE	511235.56N 0000825.27W	233 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	TV Mast	511517.02N 0001204.10W	1014 FT		Yes	

EGKR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	
2	Hours of service MET Office outside hour	
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Telephone.
6	Flight documentation Language(s) used	METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Automatic MET observations are available on ATIS (125.305 MHz), by telephone on +44 (0)1737-822947 or via http://redhillaerodrome.com/weather-information. Outside ATC hours the information is unverified.

EGKR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
07L	074.43°	683 x 23 M	RWY surface: Grass	511248.83N 0000835.69W	THR 211.3 FT	
25R	254.44°	683 x 23 M	RWY surface: Grass	511254.76N 0000801.79W	THR 198.7 FT	
07R	074.61°	897 x 30 M	RWY surface: Grass	511245.06N 0000841.49W	THR 221.6 FT	
25L	254.62°	897 x 30 M	RWY surface: Grass	511252.76N 0000756.95W	THR 197.2 FT	
18	181.02°	851 x 25 M	RWY surface: Grass	511303.36N 0000826.40W	THR 206.4 FT	
36	001.02°	851 x 25 M	RWY surface: Grass	511240.72N 0000827.04W	THR 199.9 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 07L
						RWY 25R
						RWY 07R
						RWY 25L
						RWY 18 Threshold displaced by 151 M. Pilots are warned that it is dangerous to attempt to land short of the marked displaced threshold.
						RWY 36

EGKR AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07R	897 M	897 M	897 M	897 M	
25L	897 M	897 M	897 M	897 M	
18	851 M	851 M	851 M	699 M	
36	851 M	851 M	851 M	851 M	
07L	683 M	683 M	683 M	683 M	
25R	683 M	683 M	683 M	683 M	

EGKR AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07R		Light intensity high Green wingbars.	APAPI Left/ 4.25° 20 FT			Elev bi-directional with omni-directional component 897 M 59 M spacing. White Light intensity high	Red Light intensity high		Approach: Pilot Activated Lighting available.
25L	Centre-line Simple Bar, with one cross bar at 265 M and one light prior to cross bar. 318 M Light intensity high	Light intensity high Green wingbars.	PAPI Left/3.5° 20 FT			Elev bi-directional with omni-directional component 897 M 59 M spacing. White Light intensity high	Red Light intensity high		Approach: Pilot Activated Lighting available.
H07						HI Fixed flush edge lights.			
H25						HI Fixed flush edge lights.			

EGKR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 511301N 0000837W Flashing White/Green HN
2	LDI location and lighting Anemometer location and lighting	Anemometer: Adjacent to Hold E2. Lit H24.
3	TWY edge and centre line lighting	EDGE: Twy A and E Blue edge lights.
4	Secondary power supply/switch-over time	Generator/5 seconds.
5	Remarks	

EGKR AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	FATO H07/H25: DIR H07: 511245.20N 0000824.82W 149.0 FT FATO H07/H25: DIR H25: 511246.69N 0000816.19W 149.0 FT FATO H18/H36: DIR H18: 511247.71N 0000845.10W 149.0 FT FATO H18/H36: DIR H36: 511242.50N 0000844.57W 149.0 FT
2	TLOF and/or FATO elevation	FATO H07/H25: DIR H07: 202.0 FT FATO H07/H25: DIR H25: 204.0 FT FATO H18/H36: DIR H18: 224.0 FT FATO H18/H36: DIR H36: 219.0 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	FATO H07/H25: 170 M x 20 M FATO surface: Grass flush concrete markings FATO H18/H36: 160 M x 20 M FATO surface: Grass flush concrete markings
4	True BRG of FATO	FATO H07/H25: DIR H07: 074.63°

		FATO H07/H25: DIR H25: 254.63° FATO H18/H36: DIR H18: 176.34° FATO H18/H36: DIR H36: 356.34°
5	Declared distance available	
6	APP and FATO lighting	FATO H07/H25: DIR H07: Lighting: Edge HI Fixed flush edge lights. FATO H07/H25: DIR H25: Lighting: Edge HI Fixed flush edge lights. FATO H18/H36: DIR H18: Lighting: Other location Portable LED lights available.
7	RMK	H07/H25: Pilot Activated Lighting available.

EGKR AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
REDHILL ATZ 511134N 0001048W thence clockwise by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511230N 0000511W - 511134N 0001048W	Upper limit: 2000 FT AGL Lower limit: SFC	D G	REDHILL TOWER English	6000 FT		In the event of being unable to establish 2-way communications with Redhill Tower on 119.605 MHz, pilots wishing to transit the ATZ should contact Gatwick Director on 126.825 MHz. Partly within the London Gatwick CTR and CTA and also partly below Controlled Airspace. Special procedures apply in the Redhill Local Flying Area.

EGKR AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	REDHILL TOWER	119.605 DOC 25 NM/4000 FT.			0845-1715 (0745-1815).	ATZ hours H24.
ATIS	REDHILL INFORMATION	125.305 DOC 20 NM/3000 FT.			H24	Automated observations outside ATC hours.

EGKR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGKR AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) The Aerodrome is not available to flex-wing microlight aircraft.
b) Aerodrome not available to aircraft unable to communicate by radio.
c) All pilots and persons operating on the manoeuvring area are required to wear high visibility clothing at all times. Pilots or operations staff wearing high visibility clothing must escort passengers (not wearing high visibility clothing) to and from their aircraft.
d) Use of the Aerodrome outside ATC hours is restricted to operators who have obtained prior approval from the Aerodrome Manager or SATCO. Specific procedures apply, details will be provided when approval is given.
e) Use of Aerodrome by aircraft not equipped with a serviceable transponder is subject to prior approval from the Aerodrome Licensee.

f) Details of arrival, departure and circuit patterns are available via www.redhillaerodrome.com.

2 GROUND MOVEMENT

a) Fixed-wing aircraft operations are confined to the marked runways and taxiways and to the grass areas north of Runway 07R/25L. Unmarked taxiways should not be used without ATC permission.
b) Pilots of fixed-wing aircraft must exercise caution when taxiing on the grass, especially west of Runway 18/36 where the surface is uneven in places.
c) Hangar Apron - a dashed yellow advisory centre-line is marked to assist pilots in avoiding obstacles located adjacent to the apron. This centre-line is based on aircraft with a wing span of up to but not including 11 M. A red safety line is marked on the eastern edge of the paced apron, aircraft must be parked behind this line. Pilots unsure about their wing tip clearance should either obtain the services of a competent "wing-walker" or request assistance from the ARFFS via ATC.
d) Traffic lights control non-radio vehicles between holds H2 and E1. Radio equipped vehicles may be instructed by ATC to proceed past a red signal. These traffic lights do not apply to taxiing aircraft.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The aerodrome is subject to waterlogging.
b) The surface slopes up 10 FT from the centre to the West boundary.
c) Intensive helicopter operations (Caution wake turbulence): Care must be taken by fixed-wing pilots on approach and departure from all runways not to drift into the helicopter circuit area. Do not vacate any runway until instructed to by ATC.
d) Air Taxiing helicopters direct a forceful blast of air downwards which rolls out in all directions. Also, when a helicopter's weight is transferred from the landing gear to the rotor a strong downwash is created. Fixed-wing aircraft should not be parked close to helicopter aprons.
e) Helicopters may not comply with standard RTF procedures.
f) When Runway 18/36 is in use it is not possible to provide separation between the runway and air-taxiing helicopters. Consequently, delays may occur to both helicopters and fixed-wing aircraft.
g) Operations by Police, Air Ambulance and commercial helicopters take place H24.
h) Ridge running east - west 545 FT AMSL 1.3 NM north of the aerodrome.
i) Caution: Model aircraft flying (North Downs Flyers) approximately 1.3 NM from the threshold of Runway 18 310 M west of centre-line up to 400 FT AGL/790 FT AMSL.
j) Caution: Model aircraft flying (Esher & District Model Flying Club) approximately 2 NM from the threshold of Runway 07R 170 M south of centre-line up to 400 FT AGL/575 FT AMSL.

5 HELICOPTER OPERATIONS

a) Two grass heli-strips (H07/H25 and H18/H36) are marked on the Aerodrome with standard ICAO markings and are available for helicopters up to and including 13 M overall length. Larger helicopters will operate from the marked hover squares or the fixed-wing runways.
b) The helicopter operating areas (heli-strips, confined areas and sloping ground) are separated from the fixed-wing runways and procedures are in place that permit independent and simultaneous helicopter/fixed-wing operations. Special procedures apply to A139 helicopters or larger. Helicopters will only be parked on marked grass or concrete pads. Non based helicopters will be directed by ATC to an appropriate pad.
c) Night Operations

    i. Helicopters are not permitted to arrive and depart via unlit areas of the Aerodrome unless operators have procedures, agreed with the Aerodrome Licensee, published in their Operations Manual.
    ii. At night helicopters will operate to/from H07/H25 (equipped with flush green edge lights) or Runway 07R/25L.
    iii. Additionally a lighted concrete helipad, equipped with green FATO LED edge lights, blue LED taxi area lights and red LED stop line lights, is available adjacent to the Air Ambulance Kent Surrey Sussex (AAKSS) hangar. Use of this pad is PPR through AAKSS Ops.

d) Helicopters operating in the visual circuit must remain east of the Redhill-Brighton Railway Line.

6 USE OF RUNWAYS

a) Runway 07R/25L is the preferential runway.
b) Runway 07L/25R is primarily used as a taxiway, it is only available as a runway when Runway 07R/25L is NOTAM out of service.
c) The aerodrome is equipped with Pilot Activated Lighting, pre-set to 10% intensity. Details from Aerodrome Licensee.
d) An unlicensed paved runway 06/24 is available for use by fixed-wing aircraft when the licensed grass runways are unserviceable. Helicopters equipped with wheeled undercarriage may be directed to use this facility when the grass areas are soft. Details on this runway are available on the aerodrome website www.redhillaerodrome.com
e) Runway 18/36 is not available to aircraft that are not equipped with a serviceable transponder.

7 TRAINING

a) Training is restricted to based operators and approved helicopter operations.

EGKR AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots are to operate their aircraft in a manner that will minimise the disturbance caused to local residents.
b) Aerobatic manoeuvres are prohibited within the Redhill ATZ.
c) Runway 07R/25L is the preferential runway.
d) Fixed-wing aircraft departing Runway 07L/R must climb straight ahead, tracking the extended centre-line, until passed Henhaw Farm before turning on track.
e) Fixed-wing aircraft departing Runway 25L/R must climb straight ahead, tracking the extended centre-line, until reaching the centre of Benting Wood before turning on track.
f) Multi-engine fixed-wing aircraft may only use Runway 18/36 when the surface wind precludes the safe use of Runway 07R/25L.
g) Circuit training by multi-engine fixed-wing aircraft is not permitted on Runway 18/36.
h) Circuit training by multi-engine fixed-wing aircraft is not permitted on a Sunday.
i) Helicopter night flying training within the ATZ is not permitted Mon-Fri after 2359 (2300).
j) Helicopter night flying training within the ATZ is prohibited on Saturday and Sunday.
k) During ATC hours all ground running of helicopters for maintenance purposes is subject to ATC approval. Except for Police and Air Ambulance helicopters ground runs may not take place prior to 0800 (0700) hours or after 2100 (2000) hours.
l) Except for Police, Air Ambulance and based news gathering helicopters flights are not normally permitted during 0001-0700 (2301-0600) Mon-Sat or during the periods of 0001-0800 (2301-0700) and 2200-2359 (2100-2300) on a Sunday.
m) Helicopters departing from the Runway 18 displaced threshold markings to the north are to use their best angle of climb speed.
n) Except for Category A or B flights (MATS Part 1 Section 1 Chapter 4) helicopter departures or arrivals below the circuit altitude are not permitted.
o) Helicopter departures or arrivals via the Runway 18 displaced threshold markings are not permitted if the tail wind component exceeds 10 KTS.

EGKR AD 2.22 FLIGHT PROCEDURES

1 GENERAL

a) All procedures are based on Redhill QNH. ATC will provide QFE when requested by pilots.
b) Variable circuits, no dead-side, helicopters will fly a circuit pattern opposite to that used by fixed-wing aircraft. Circuit height: Fixed-wing and Helicopters 1200 FT QNH.
c) All inbound aircraft must establish contact with Redhill ATC at least 5 minutes prior to their ETA.
d) Runway 18 departing fixed-wing aircraft must commence their left turn within 0.5 NM of crossing Taxiway C/D and track 070°(M) on the crosswind leg.
e) Runway 36 fixed-wing aircraft must turn right base at Burstow Park Farm and track 250°(M) to turn onto final approach at a range not greater than 0.5 NM of the threshold. Report FINAL on crossing the M23 motorway.

2 VFR ARRIVAL AND DEPARTURE PROCEDURES

a) ATC will require all VFR/SVFR aircraft to enter and leave the ATZ by routeing via one of the VRPs (listed in paragraph 4) as follows:

i. Fixed-wing aircraft:

1. Join at 1400 FT QNH. If required to join overhead - enter the ATZ on the runway QDM remaining within the fixed-wing circuit area. When instructed, descend to circuit height and join the visual circuit pattern. Note: overhead join is not available when Runway 36 is in use or on other runways when operating SVFR.
2. Departures are to fly not above 1400 FT QNH until passed the appropriate VRP.

ii. Helicopters:

1. Join at 1200 FT QNH and enter the circuit pattern via the appropriate VRP or outside the Gatwick CTA.

Note: *When Runway 18/36 is in operation helicopters joining from the east may be instructed to route from Godstone Railway Station to the eastern aerodrome boundary at 700 FT QNH.*

2. Departures are fly between 700 FT and 1200 FT QNH until passed the appropriate VRP or until outside the Gatwick CTA.

3 REDHILL LOCAL FLYING AREA (LFA) AND PROCEDURES

a) The southern half of Redhill aerodrome lies within the Gatwick CTR and the northern half lies beneath the Gatwick CTA. During the hours of watch of Redhill ATC, subject to the restrictions listed in paragraph (b), VFR and SVFR flights without reference to Gatwick ATC may be made within a LFA which is bounded by the following positions:

511405N 0001047W - 511437N 0000656W thence south by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511230N 0000511W - 511134N 0001048W - 511248N 0001240W - 511258N 0001129W thence north by the arc of a circle radius 2 NM centred on 511249N 0000819W to 511405N 0001047W.

b) The following restrictions apply within that part of the Redhill LFA that lies within the Gatwick CTR (Area A) (i.e. south of a line joining positions 511258N 0001129W - 511234N 0000510W):

i. Aircraft are to remain clear of cloud and with the surface in sight;
ii. Maximum altitude — 1400 FT QNH;
iii. VFR weather minima: Fixed-wing minimum meteorological visibility 5000 M, helicopter minimum meteorological visibility 1500 M.
iv. SVFR weather minima: Fixed-wing minimum meteorological visibility 3000 M and/or cloud ceiling (BKN) 700 FT. Helicopter minimum meteorological visibility 1500 M and/or cloud ceiling (BKN) 700 FT.
v. Limits of circuit:

- Middle of Benting Wood to the west;
- Redhill — Bletchingley Road (A25) to the north;
- Outwood — Bletchingley road to the east;
- Picketts and Brownslade farms to the south.

c) Within that part of the Redhill Local Flying Area that lies outside the Gatwick CTR (Area B) the maximum altitude is 1400 FT QNH.
d) Aircraft joining or leaving Redhill Local Flying Area must do so at a point north of the Gatwick CTR. Joining procedures and Visual Reference Points are as detailed.
e) The LFA is depicted at AD 2-EGKR-4-1.
f) Refer to Section ENR 1.4 for Notifications.

Note 1: *Aircraft that are in communication with Gatwick ATC and intend either to land or overfly adjacent to Redhill aerodrome must not assume that clearance has been issued to penetrate the Redhill LFA. Pilots must obtain prior permission from Redhill by RTF. Gatwick ATC will, whenever possible, permit an aircraft to leave the frequency temporarily to obtain such clearance.*

Note 2: *Aircraft following the Redhill - Tonbridge railway line, London - Brighton railway line and the M23 Motorway are reminded that these routes traverse the Redhill LFA.*

4 SPECIAL VFR (SVFR) OPERATIONS

a) When the weather conditions reported at Redhill do not allow VFR operations, SVFR flights will be permitted (subject to a clearance from Redhill ATC) within the ATZ/LFA. The minimum weather limits for SVFR flights at Redhill are:

i. Helicopters - meteorological visibility 1500 M and/or cloud ceiling 700 FT;
ii. Fixed-wing - meteorological visibility 3000 M and/or cloud ceiling 700 FT.

b) Radar separation will not be provided by London Terminal Control between aircraft operating within or outside the Redhill ATZ/LFA however, traffic information may be passed to those aircraft operating outside the Redhill ATZ/LFA on those observed to be operating within the Redhill ATZ/LFA.

5 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGKR AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGKR AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGKR-2-1
LOCAL FLYING AREA
AD 2.EGKR-4-1

EGKR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 511249N 0000819W

AD ELEV 222FT

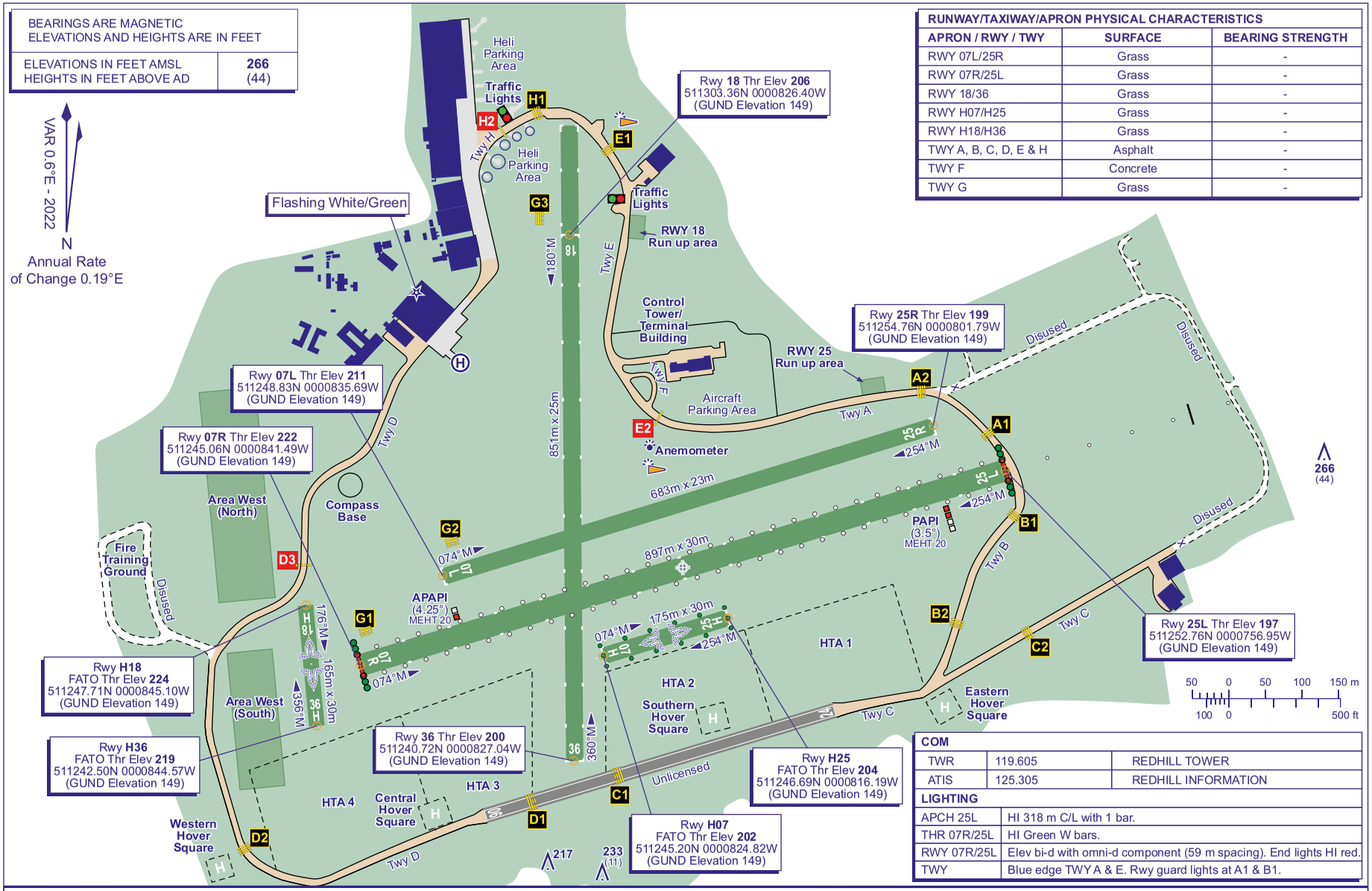
REDHILL
EGKR

AERO INFO DATE 02 MAY 25

BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	266 (44)

VAR 0.6°E - 2022
N
Annual Rate of Change 0.19°E

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 07L/25R	Grass	-
RWY 07R/25L	Grass	-
RWY 18/36	Grass	-
RWY H07/H25	Grass	-
RWY H18/H36	Grass	-
TWY A, B, C, D, E & H	Asphalt	-
TWY F	Concrete	-
TWY G	Grass	-



COM		
TWR	119.605	REDHILL TOWER
ATIS	125.305	REDHILL INFORMATION
LIGHTING		
APCH 25L	HI 318 m C/L with 1 bar.	
THR 07R/25L	HI Green W bars.	
RWY 07R/25L	Elev bi-d with omni-d component (59 m spacing). End lights HI red.	
TWY	Blue edge TWY A & E. Rwy guard lights at A1 & B1.	

CHANGE (7/25): WINDSLEEVES REVISED.

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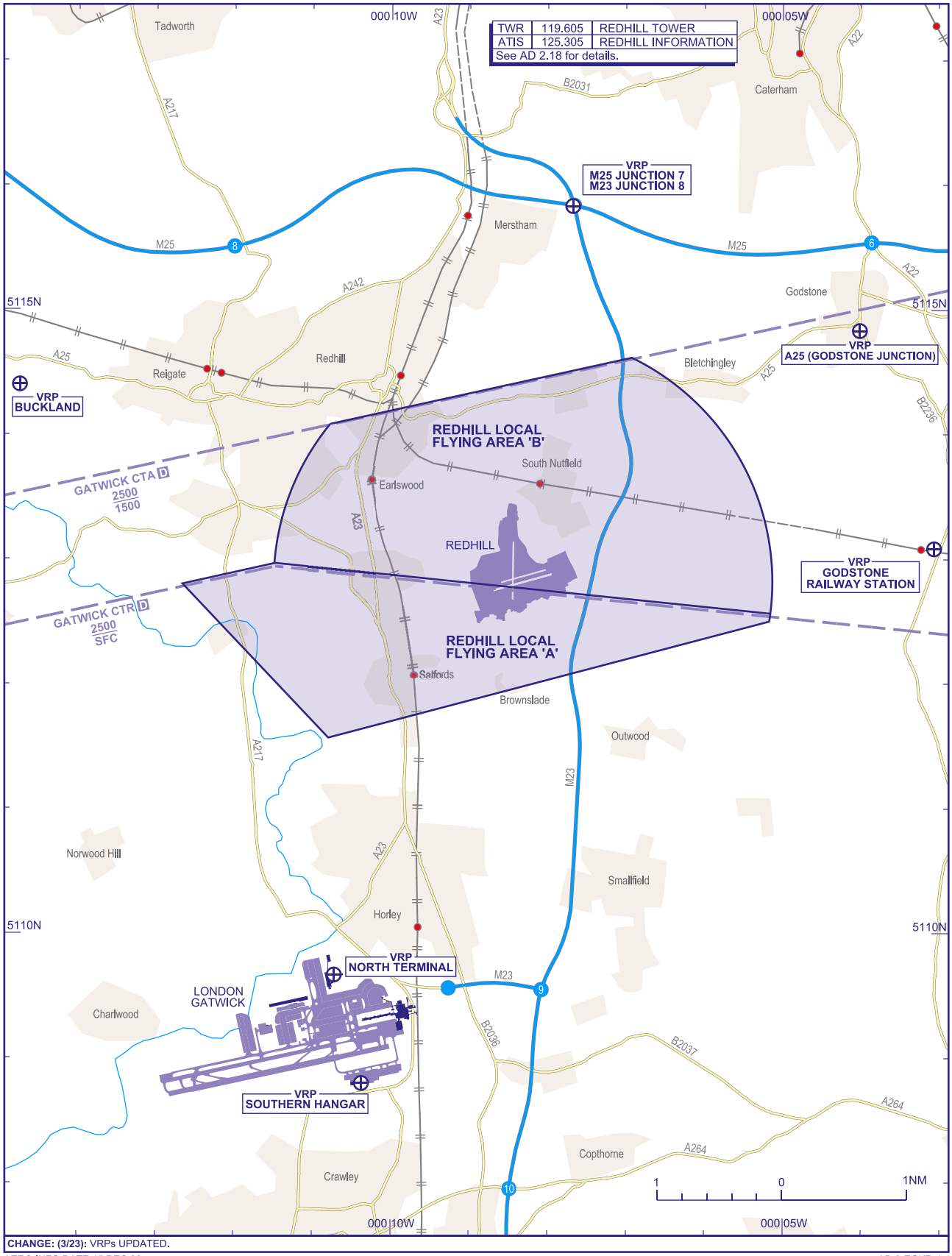
REDHILL LOCAL FLYING AREA

REDHILL



CHANGE: (3/23): VRPs UPDATED.

AERO INFO DATE 15 DEC 22

AD 2-EGKR-4-1

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EGNE — RETFORD/GAMSTON

EGNE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNE — RETFORD/GAMSTON

EGNE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 531650N Long: 0005705W
2	Direction and distance from city	2 NM S of Retford.
3	Elevation / Reference temperature / Mean Low Temperature	87 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	157 FT
5	Magnetic Variation / Annual Change	0.93°E (2027) / 0.18°E
6	AD Administration Address Telephone Web address	GAMSTON AVIATION LTD. Retford (Gamston) Airport, Ollerton Road, Retford, North Nottinghamshire, DN22 0QL. 01777-838521 www.retfordairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGNE AD 2.3 OPERATIONAL HOURS

1	AD Administration	A) Mon-Fri 0800-1800 (0700-1700); Sat, Sun and PH 0900-1800 (0800-1700). B) Extension of hours on request: Mon-Fri 0600-0759 (0500-0659), 1801-2300 (1701-2200); Sat, Sun and PH 0800-0859 (0700-0759), 1801-2100 (1701-2000). Outside of these extended hours, the aerodrome is unavailable for use in line with local noise abatement restrictions except for Emergency Flights. Unless subject to an approved extension of hours, the aerodrome is only available for flights not requiring the facilities of a licensed aerodrome, conducted solely by based operators and users, holding the appropriate 'out of hours permit' and with prior permission. C) Emergency Flights H24 by prior arrangement. D) Gamston Aerodrome is a dual operations facility, operating both general aviation and assistive driving technology vehicle testing. Please contact Gamston Aviation for more information regarding dual-use operations.
2	Customs and immigration	As AD hours.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	Mon-Fri 0800-1745 (0700-1645); Sat, Sun and PH 0900-1745 (0800-1645) or by arrangement.
9	Handling	As AD hours.
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR. A flight plan alone doesn't constitute as PPR. Airborne PPRs are not accepted.

EGNE AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1(anti-icing additive not included), AVGAS 100LL AD80, AD100, 20W50, S100, Turbine oils

3	Fuelling facilities/capacity	Jet A1 Bowser Facility - Pressure and Overwing / approx. 56,000 LT. AVGAS 38,000 LT. AVGAS and JET-A1 delivered by bowser. Fuel capacity is an approx. storage total.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited subject to request with PPR.
6	Repair facilities for visiting aircraft	
7	Remarks	Mandatory ground handling is required for visiting jet and turboprop aircraft. Contact Gamston Aviation Ltd: Tel: 01777-838521; Email: operations@retfordairport.co.uk.

EGNE AD 2.5 PASSENGER FACILITIES

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EGNE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 on request. RFF Category 3 on remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	For details on disabled aircraft recovery contact 01777-838521.
4	Remarks	

EGNE AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGNE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGNE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 02/20: Runway designation, threshold, centre-line and edge marking. Yellow taxi guidance line at turning point beyond each threshold. Unlicensed taxiway between Charlie and Charlie 1 has a white taxi guidance line.
3	Stop bars and runway guard lights (if any)	Guard lights at holds Alpha and Bravo.
4	Other runway protection measures	
5	Remarks	Pilots are advised that Runway 02/20 has white line road markings displayed on the paved area to the west of the declared and marked Runway 02/20 and on Taxiway Bravo. Aircraft should follow the yellow centreline when vacating and taxiing.

EGNE AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	TREE	531708.35N 0005443.43W	253 FT		No	
	TREE	531708.16N 0005442.05W	252 FT		No	
	TREE	531706.88N 0005443.49W	251 FT		No	
	TREE	531704.42N 0005443.82W	259 FT		No	
	TREE	531701.05N 0005442.75W	258 FT		No	
	TREE	531653.95N 0005448.29W	264 FT		No	
	TREE	531652.55N 0005449.59W	262 FT		No	
	TREE	531650.22N 0005449.37W	258 FT		No	
	TREE	531714.47N 0005439.88W	269 FT		No	
	TREE	531710.77N 0005441.14W	259 FT		No	
	TREE	531717.57N 0005441.60W	256 FT		No	

EGNE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGNE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
02	024.98°	1199 x 23 M	RWY surface: Asphalt	531637.59N 0005714.25W 157.0 FT	THR 84.3 FT	
20	204.98°	1199 x 23 M	RWY surface: Asphalt	531712.75N 0005646.92W 157.0 FT	THR 71.1 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		- x 40 M	90 x - M 240 x - M			
		- x 40 M	240 x - M 90 x - M			

EGNE AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02	1199 M	1199 M	1199 M	1199 M	
20	1199 M	1199 M	1199 M	1199 M	

EGNE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02		Green	APAPI Right/ 3.5° 26 FT			LED White Light intensity high	Red		EDGE: Edge lights include omni component.
20		Green	APAPI Left/3.5° 26 FT			LED White Light intensity high	Red		EDGE: Edge lights include omni component.

EGNE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGNE AD 2.16 HELICOPTER LANDING AREA

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EGNE AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
RETFORD/GAMSTON ATZ A circle, 2 NM radius, centred at 531650N 0005705W on longest notified Runway (02/ 20)	Upper limit: 2000 FT AGL Lower limit: SFC	G	GAMSTON RADIO English	5000 FT		

EGNE AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	GAMSTON RADIO	130.480 A/G frequency. DOC 25 NM/ 4000FT.			Mon-Fri 0800-1800 (0700-1700); Sat, Sun and PH 0900-1800 (0800-1700). On request: Mon-Fri 0600-0759 (0500-0659), 1801-2300 (1701-2200); Sat, Sun and PH 0800-0859 (0700-0759), 1801-2100 (1701-2000).	ATZ hours coincident with A/G hours, but not by request.

EGNE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	GAM	75X 112.800 MHz	H24	531653.28N 0005649.79W	115 FT	DME DOC: 80 NM/25,000 FT.

EGNE AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) AD not available to aircraft unable to communicate by radio with A/G station unless specifically arranged.
b) Pilots, other aircrew, engineers and those working in airside areas are required to wear a high visibility vest or jacket at all times whilst accessing the ramp, apron and hangars. Passengers and visitors accessing these areas are required to be escorted at all times by a competent individual wearing a high visibility vest or jacket.
c) Engine testing or high power engine runs by turbine or jet aircraft must only be carried out in the space provided near holding point C. Aircraft conducting engine testing or high power engine runs must maintain radio communication with Gamston Radio on 130.480 MHz for the duration of testing.
d) Large turboprop and jet aircraft may join downwind left-hand for Runway 20 and downwind right-hand for Runway 02, when there is traffic to affect in the established circuit, for separation purposes. Gamston Radio can advise on reported traffic.
e) The airport is strictly PPR for all non-based aircraft. PPR can be obtained via telephone or via the website. Aircraft must obtain confirmation that PPR has been accepted before departing for the AD. Airborne PPRs aren't accepted.

2 GROUND MOVEMENT

a) Access to and from Runway 02/20 is via points A, B and C only. Other paved taxiways are unusable / not available for use by aircraft.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Runway 02 APAPI is positioned to the right-hand side of the runway.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGNE AD 2.21 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) All aircraft inbound and outbound from this airport are required to conform to the following procedures, notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger:

i. Every operator of aircraft using the airport shall always ensure that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
ii. Aircraft operators should conform to the aerodrome circuit and avoid noise sensitive areas as published on the airport website https://retfordairport.co.uk/fly-in.html.
iii. Aircraft should utilise the full declared distances when departing in order to minimise noise in the areas surrounding the airport.

EGNE AD 2.22 FLIGHT PROCEDURES

1 GENERAL

a) Pilots are to contact the A/G station prior to entering the ATZ.

2 PROCEDURES FOR INBOUND AIRCRAFT VIA THE AIRWAYS SYSTEM

a) Aircraft inbound from the South† via the airways system must follow the East Midlands Standard Arrival Routes (STAR) as shown at AD-2- EGNX-7. A STAR will be issued by the relevant area control unit.
b) Aircraft may be vectored off the routes for separation purposes. When separation has been achieved, ATC will give an instruction to resume the STAR via the appropriate fix.
c) East Midlands Radar will position aircraft inbound to Gamston on a heading or own navigation. Aircraft are required to free-call Gamston when clear of CAS.

3 PROCEDURES FOR OUTBOUND AIRCRAFT TO THE SOUTH VIA THE AIRWAYS SYSTEM

a) Departures to the south should route via DCT SAPCO or TNT. Aircraft should include all necessary and relevant waypoints in the flight plan.
b) Gamston will pre-note East Midlands Radar with the aircraft's routing and requested level prior to departure.

4 PROCEDURES FOR OUTBOUND AIRCRAFT TO THE NORTH VIA THE AIRWAYS SYSTEM

a) Departures to the North should route via DCT UPTON or GOLES. Aircraft should include all necessary and relevant waypoints in the flight plan.
b) IFR flights should inform Gamston Radio when they are ready for departure, including which waypoint they intend to join at.
c) Gamston will pre-note Scottish control with the aircraft's routing and requested level prior to an aircraft's departure.

Note: *Pilots are recommended to hold prior to departure and wait for further details from Gamston Radio to avoid delays on joining CAS.*

5 RADIO COMMUNICATION FAILURE PROCEDURE

a) In the event of complete radio communication failure, the pilot will adopt the appropriate procedure notified at ENR 1.1.3.3. Aircraft are then to leave Controlled Airspace routeing UPDUK - GAM DME.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGNE AD 2.23 ADDITIONAL INFORMATION

1 PROXIMITY OF MICROLIGHT FLYING SITE

a) Headon microlight flying site is located 3 NM to the east of the airport and may be active at any time.
b) Darlton gliding site is located 4 NM to the east of the airport and may be active at any time. Confirmation of active launches may be obtained from Waddington LARS.

EGNE AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNE-2-1

EGNE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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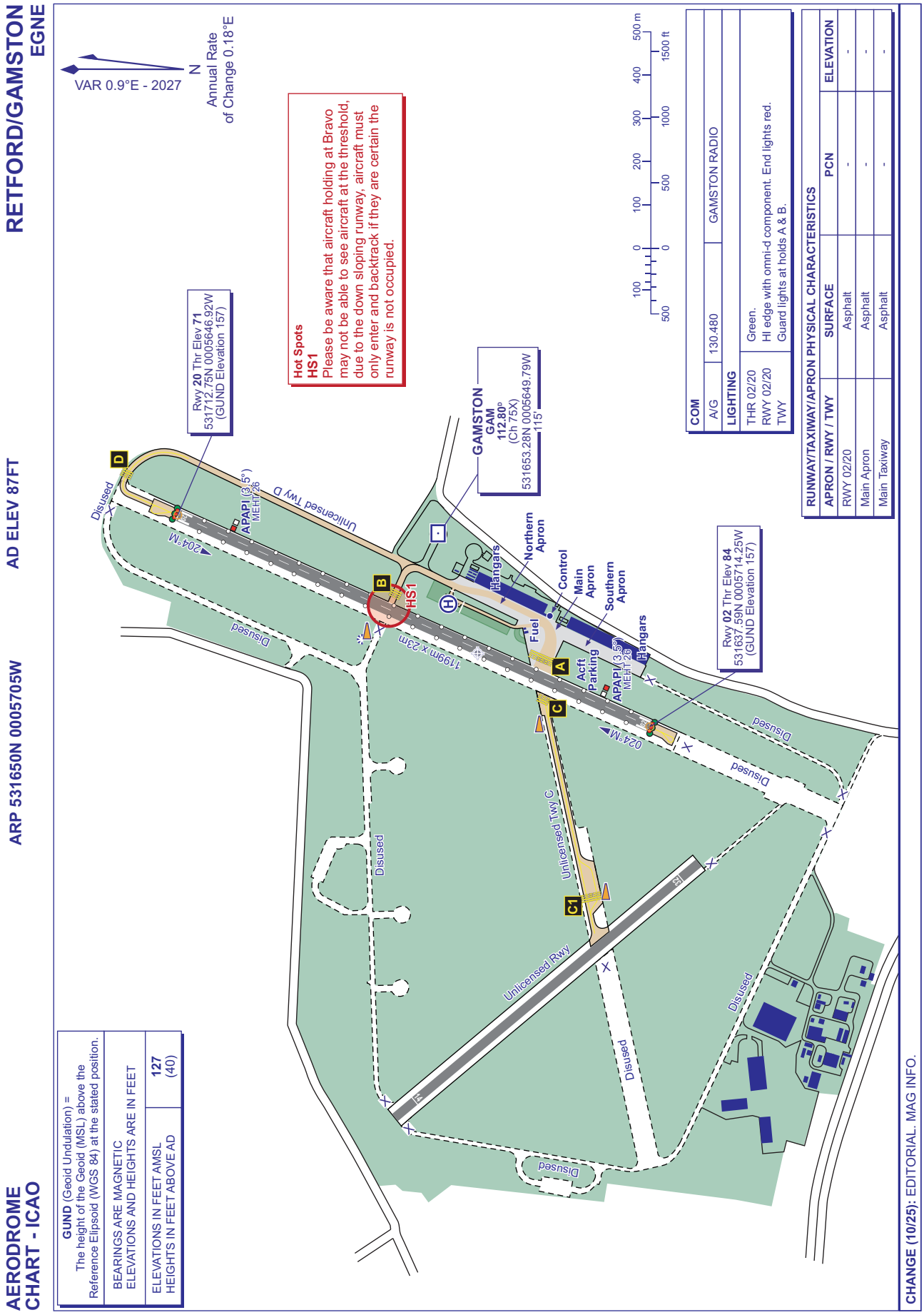
RETFORD/GAMSTON
EGNE

AD ELEV 87FT

ARP 531650N 0005705W

AERODROME
CHART - ICAO



COM		
A/G	130.480	GAMSTON RADIO

LIGHTING	
THR 02/20	Green.
RWY 02/20	HI edge with omni-d component. End lights red.
TWY	Guard lights at holds A & B.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 02/20	Asphalt	-	-
Main Apron	Asphalt	-	-
Main Taxiway	Asphalt	-	-

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	127 (40)

CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 22 JUL 25

AD 2-EGNE-2-1

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EGTO — ROCHESTER

EGTO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTO — ROCHESTER

EGTO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 512107N Long: 0003010E
2	Direction and distance from city	1.5 NM S of Rochester.
3	Elevation / Reference temperature / Mean Low Temperature	420 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	147 FT
5	Magnetic Variation / Annual Change	1.54°E (2027) / 0.17°E
6	AD Administration Address Telephone Telefax	ROCHESTER AIRPORT LTD Rochester Airport, Chatham, Kent, ME5 9SD. 01634-869969 (ATC/Manager/Admin) 01634-861682 (ATC) 01634-869968 (Manager/Admin)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGTO AD 2.3 OPERATIONAL HOURS

1	AD Administration	0830-1730 (0730-1630).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	0830-1715 (0730-1615).
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR.

EGTO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL, UL-91 W80, 100, W100, 15/50 multi-grade.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Arion Aviation: Mon-Fri 0800-1700 (0700-1600), Tel: 01634-864753.
7	Remarks	

EGTO AD 2.5 PASSENGER FACILITIES

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EGTO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category 1.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGTO AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGTO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGTO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI 512102.44N 0003019.40E.

EGTO AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTO1385) 20R/APPROACH 02L/ TAKE-OFF	TREE	512130.71N 0003029.14E	428 FT		No	
(EGTO1386) 20R/APPROACH 02L/ TAKE-OFF	TREE	512130.59N 0003028.34E	434 FT		No	
(EGTO1375) 20R/APPROACH 02L/ TAKE-OFF	TREE	512129.40N 0003032.51E	430 FT		No	
(EGTO1075) 20R/APPROACH 02L/ TAKE-OFF	TREE	512129.10N 0003025.87E	422 FT		No	
(EGTO1374) 20R/APPROACH 02L/ TAKE-OFF	TREE	512128.65N 0003032.37E	435 FT		No	
(EGTO1370) 20R/APPROACH 02L/ TAKE-OFF	TREE	512128.62N 0003034.42E	444 FT		No	
(EGTO1392) 20R/APPROACH 02L/ TAKE-OFF	TREE	512128.11N 0003025.23E	430 FT		No	
(EGTO1373) 20R/APPROACH 02L/ TAKE-OFF	TREE	512127.95N 0003032.41E	439 FT		No	
(EGTO1063) 20R/APPROACH 02L/ TAKE-OFF	TREE	512127.33N 0003034.04E	451 FT		No	
(EGTO1369) 20R/APPROACH 02L/ TAKE-OFF	TREE	512126.55N 0003032.04E	432 FT		No	
(EGTO1371) 20R/APPROACH 02L/ TAKE-OFF	TREE	512126.49N 0003031.62E	436 FT		No	
(EGTO1388) 20R/APPROACH 02L/ TAKE-OFF	TREE	512125.61N 0003024.35E	408 FT		No	
(EGTO1368) 20R/APPROACH 02L/ TAKE-OFF	TREE	512125.30N 0003031.54E	433 FT		No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTO1119) 02L/APPROACH 20R/ TAKE-OFF	TREE	512055.97N 0003007.24E	450 FT		No	
(EGTO1268) 02L/APPROACH 20R/ TAKE-OFF	TREE	512055.79N 0003007.52E	441 FT		No	
(EGTO1120) 02L/APPROACH 20R/ TAKE-OFF	TREE	512054.78N 0003006.95E	443 FT		No	
(EGTO1121) 02L/APPROACH 20R/ TAKE-OFF	TREE	512054.01N 0003007.29E	444 FT		No	
(EGTO1272) 02L/APPROACH 20R/ TAKE-OFF	TREE	512053.70N 0003008.04E	440 FT		No	
(EGTO1271) 02L/APPROACH 20R/ TAKE-OFF	TREE	512053.67N 0003007.76E	442 FT		No	
(EGTO1273) 02L/APPROACH 20R/ TAKE-OFF	TREE	512053.02N 0003008.20E	444 FT		No	
(EGTO1124) 02L/APPROACH 20R/ TAKE-OFF	TREE	512052.68N 0003009.54E	449 FT		No	
(EGTO1274) 02L/APPROACH 20R/ TAKE-OFF	TREE	512052.51N 0003008.37E	455 FT		No	
(EGTO1123) 02L/APPROACH 20R/ TAKE-OFF	TREE	512052.28N 0003008.48E	454 FT		No	
(EGTO1126) 02L/APPROACH 20R/ TAKE-OFF	TREE	512052.25N 0003009.82E	453 FT		No	
(EGTO1275) 02L/APPROACH 20R/ TAKE-OFF	TREE	512052.08N 0003008.74E	453 FT		No	
(EGTO1125) 02L/APPROACH 20R/ TAKE-OFF	TREE	512052.06N 0003008.59E	457 FT		No	
(EGTO1127) 02L/APPROACH 20R/ TAKE-OFF	TREE	512051.70N 0003009.24E	459 FT		No	
(EGTO1573) 02L/APPROACH 20R/ TAKE-OFF	ATC ANTENNA	512051.65N 0003015.33E	462 FT		No	
(EGTO1280) 02L/APPROACH 20R/ TAKE-OFF	TREE	512051.52N 0003010.91E	452 FT		No	
(EGTO1007) 02L/APPROACH 20R/ TAKE-OFF	ANEMOMETER	512051.31N 0003014.00E	479 FT		No	
(EGTO1128) 02L/APPROACH 20R/ TAKE-OFF	TREE	512051.29N 0003010.25E	468 FT		No	
(EGTO1278) 02L/APPROACH 20R/ TAKE-OFF	TREE	512051.28N 0003009.43E	456 FT		No	
(EGTO1279) 02L/APPROACH 20R/ TAKE-OFF	TREE	512051.25N 0003009.90E	456 FT		No	
(EGTO1283) 02L/APPROACH 20R/ TAKE-OFF	TREE	512051.15N 0003010.57E	479 FT		No	
(EGTO1286) 02L/APPROACH 20R/ TAKE-OFF	TREE	512050.74N 0003011.40E	488 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTO1077)	BUILDING	512129.64N 0003024.95E	424 FT		No	
(EGTO1398)	BUILDING AERIAL	512123.71N 0003017.31E	454 FT		No	
(EGTO1365)	TREE	512122.79N 0003031.23E	432 FT		No	
(EGTO1091)	STREETLIGHT	512120.82N 0003018.15E	426 FT		No	
(EGTO1364)	TREE	512119.91N 0003029.64E	440 FT		No	
(EGTO1363)	MAST	512119.68N 0003031.02E	439 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTO1403)	STREETLIGHT	512118.83N 0003017.46E	429 FT		No	
(EGTO1061)	TREE	512118.63N 0003030.94E	444 FT		No	
(EGTO1047)	STREETLIGHT	512112.92N 0003024.92E	419 FT		No	
(EGTO1570)	ANEMOMETER	512102.62N 0003019.42E	441 FT		No	
(EGTO1116)	TREE	512058.30N 0003005.65E	445 FT		No	
(EGTO1117)	TREE	512057.47N 0003006.38E	450 FT		No	
(EGTO1179)	TREE	512025.74N 0002936.38E	588 FT		No	
(EGTO1238)	TREE	512025.65N 0003003.88E	572 FT		No	
(EGTO1235)	TREE	512016.43N 0002959.28E	614 FT		No	
(EGTO1240)	TREE	512006.88N 0003001.40E	641 FT		No	
(EGTO1435)	TREE	512005.69N 0002918.74E	600 FT		No	
(EGTO1471)	TREE	511936.61N 0003031.08E	681 FT		No	
(EGTO1411)	MAST	511934.15N 0003132.72E	777 FT		No	
(EGTO1417)	TREE	511930.25N 0003202.78E	686 FT		No	
(EGTO1469)	TREE	511928.46N 0003035.70E	695 FT		No	
(EGTO1410)	MAST	511927.27N 0003114.43E	806 FT		No	

EGTO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGTO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
02L	021.32°	828 x 32 M	RWY surface: Grass	512057.56N 0003010.34E 147.4 FT	THR 417.5 FT	
20R	201.32°	828 x 32 M	RWY surface: Grass	512122.52N 0003025.88E 147.4 FT	THR 389.4 FT	
02R	021.15°	684 x 21 M	RWY surface: Grass	512056.61N 0003011.54E 147.4 FT	THR 418.8 FT	
20L	201.15°	684 x 21 M	RWY surface: Grass	512117.23N 0003024.38E 147.4 FT	THR 394.3 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		- x 87 M				RWY 02L
		- x 87 M				RWY 20R
		- x 63 M				RWY 02R Used when advised by the FISO.
		- x 63 M				RWY 20L Used when advised by the FISO.

EGTO AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02L	828 M	828 M	828 M	828 M	
20R	828 M	828 M	828 M	828 M	
02R	684 M	684 M	684 M	684 M	
20L	684 M	684 M	684 M	684 M	

EGTO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02L		Green Light intensity low	APAPI Left/4° 21 FT			Light intensity low	Red		
20R		Green Light intensity low	APAPI Left/3.5° 18 FT			Light intensity low	Red		

EGTO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 512052.65N 0003017.67E Rotating White.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 512102.62N 0003019.42E, 512051.73N 0003015.19E.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGTO AD 2.16 HELICOPTER LANDING AREA

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EGTO AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ROCHESTER ATZ A circle, 2 NM radius, centred at 512107N 0003010E	Upper limit: 2000 FT AGL Lower limit: SFC	G	ROCHESTER INFORMATION English	6000 FT		

EGTO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	ROCHESTER INFORMATION	122.255 DOC 10 NM/2,400 FT			0830-1730 (0730-1630).	ATZ hours coincident with AFIS hours.

EGTO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGTO AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Not available at night to aircraft requiring to use a licensed runway when relief Runway 02R/20L is in operation.
b) Aircraft using this aerodrome are required to have third party liability insurance in the sum of at least £1,000,000. Proof of this insurance should be available for inspection at any time whilst the aircraft is at Rochester aerodrome.
c) Use of the aerodrome is restricted to published hours unless prior permission has been obtained from the aerodrome authority.
d) Practice Engine Failure at take-off should not be attempted from Runway 02 due to the flight paths over built up areas.
e) Air training flights, intending to request circuit training, solo students and microlight aircraft are required to obtain prior permission by telephone.
f) Aerobatic manoeuvres are not permitted unless authorised by the duty manager.
g) Home based aircraft may be active outside the published hours. Non-home based aircraft should remain clear of the ATZ. Over flights may listen out on frequency and prefix position reports with ‘Rochester Traffic’.
h) No circuits are permitted outside of published hours.

2 GROUND MOVEMENT

a) Fixed wing aircraft are to taxi with caution on prepared and marked areas only.
b) Pilots must avoid the use of excessive power on the main apron due to poor surface conditions and pedestrian traffic in the vicinity.
c) No centre-line on main apron. Pilots are responsible for wing tip clearance.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Runway 20R APAPI signals are visible to the east of the extended runway centre-line where normal obstacle clearance is not guaranteed. They should not be used until the aircraft is aligned with the runway extended centre-line.
b) Runway 02L APAPI signals are visible to the west of the extended runway centre-line where normal obstacle clearance is not guaranteed. They should not be used until the aircraft is aligned with the runway extended centre-line.
c) The proximity of large buildings and topography may cause turbulence and windsheer in some wind conditions.
d) Pilots are advised that the aerodrome is situated beneath the LTMR of 2500 FT QNH.

5 HELICOPTER OPERATIONS

a) Helicopters air taxiing should avoid low flight over the runway maker boards and parked aircraft due to high energy downwash from rotors.
b) Helicopters landing and taxiing in the northern manoeuvring areas are advised of the close proximity of the main car park and pedestrians.
c) Rescue and Police helicopter flights may take place outside of published hours day and night without notice.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) Circuit training is restricted to visitors at weekends, public holidays, and at other times that the aerodrome authority consider appropriate.

EGTO AD 2.21 NOISE ABATEMENT PROCEDURES

a) All aircraft inbound to or outbound from Rochester are required to conform to the following procedures, notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.
b) Aircraft should not join the circuit or final approach path below 1000 FT QFE.
c) Circuit patterns should be flown to the west avoiding the large built up area to the east.
d) Aircraft taking off should use the full length of the runway, applying take-off power prior to releasing the brakes whenever surface conditions permit.
e) Aircraft fitted with VP propellers must endeavour to reduce RPM consistent with manufacturers noise abatement advice.
f) Aircraft departing from Runway 02 to the east are expected to depart via the overhead unless requesting a right hand turn after passing 1500 FT QNH.
g) Unless making an approach on the PAPIs installed on Runway 02/20 aircraft should adjust their visual approach to maintain a 5° approach angle to the runway threshold.
h) Circuit direction is variable to avoid flying over built up areas: Runway 20R/L - RH; Runway 02L/R - LH.

EGTO AD 2.22 FLIGHT PROCEDURES

1 STANDARD DEPARTURE ROUTES - VIA ATS ROUTE NETWORK

a) Pilots who wish to join the ATS Route Network should flight plan as per the UK SRD.
b) Rochester ATSU will notify the pending departure to London Terminal Control (LTCC) and will co-ordinate the departure with LTCC or Southend.
c) Rochester ATSU will issue pilots with after departure instructions and pilots must remain outside of controlled airspace until a clearance to enter controlled airspace has been issued by LTCC or Southend Radar.
d) Pilots are to ensure they have received and acknowledged a joining clearance before entering controlled airspace.

2 INBOUND AIRCRAFT VIA ATS ROUTE NETWORK

In order to provide improved ATC handling of flights inbound to Rochester via the ATS Route network a system of standard routes has been established.

Approach from	Via	Route
North	N859	N859 – HON – LAM
West	Q63	Q63 – CPT – GWC – SFD – LYD – DET
Southwest	L620	L620 – GIBSO – SAM – GWC – SFD – LYD – DET
South	L980	L980 – KATHY – GWC – SFD – LYD – DET
	M189	M189 – NEVIL – LYD – DET
	L613	L613 – SOVAT – SANDY – DET
Southeast	L9	L9 – KONAN – DVR – DET
East	L980	L980 – LOGAN – JACKO – TANET – DET
	L179	L179 – LOGAN – JACKO – TANET – DET

3 VFR FLIGHT PROCEDURES

a) A standard overhead join is preferred but other joins may be requested.
b) Departing Runways 02 to the east via the overhead is preferred but a right turn after passing 1500 FT QFE can be requested.
c) Departing Runway 20 to the east, aircraft should depart overhead or climb ahead on runway heading until clear of the built up area to the east.
d) Circuit height is 1000 FT QFE, always flown to the west.
e) A standard circuit pattern should be flown within the ATZ which is geographically marked to the north and west by the River Medway, turning on to finals at 2 NM.

4 RADIO COMMUNICATION FAILURE PROCEDURES

a) In the event of complete radio communication failure in an aircraft, the pilot is to adopt the appropriate procedure described at ENR 1.1 paragraph 3.4 until:

i. Inbound Aircraft: Follow the routes detailed in paragraph 2 for inbound aircraft to leave CAS at LAM (4000 FT or below) or DET (3000 FT or below) as appropriate and proceed to Rochester.
ii. Outbound Aircraft: For the purposes of radio failure, the climb to flight planned level should be commenced after the last position shown in the Standard Departure Routes where an altitude or flight level is specified.

EGTO AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGTO AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGTO-2-1

EGTO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 512107N 0003010E

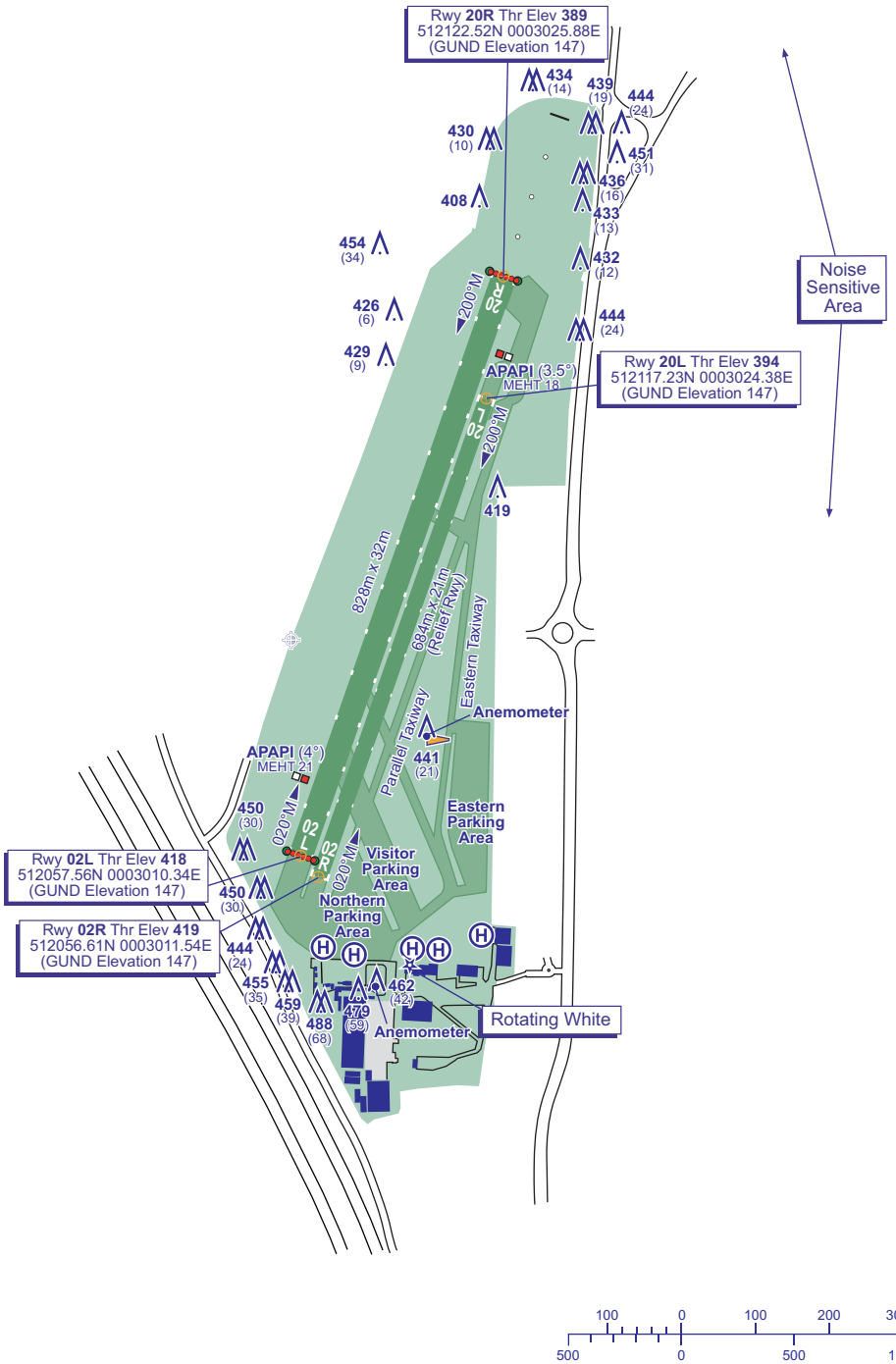
AD ELEV 420FT

ROCHESTER
EGTO

BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**488** (68)

VAR 1.5°E - 2027
N
Annual Rate of Change 0.17°E

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**PCN**	**ELEVATION**
RWY 02L/20R	Grass	-	-
RWY 02R/20L	Grass	-	-
Main Apron	Asphalt	-	-
Main Taxiway	Grass	-	-



COM		
AFIS	122.255	ROCHESTER INFORMATION
LIGHTING		
THR 02L/20R RWY 02L/20R	LI green. LI. End lights red.	

CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 22 JUL 25

AD 2-EGTO-2-1

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EGES — SANDAY

EGES AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGES — SANDAY

EGES AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 591501N Long: 0023430W
2	Direction and distance from city	20 NM NNE of Kirkwall Airport.
3	Elevation / Reference temperature / Mean Low Temperature	62 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.31°W (2027) / 0.22°E
6	AD Administration Address Telephone Telefax E-mail address	ORKNEY ISLANDS COUNCIL. Council Offices, Kirkwall, Orkney Islands, KW15 1NY, Scotland. 01856-873535 01856-876094 developmentandinfrastructure@orkney.gov.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGES AD 2.3 OPERATIONAL HOURS

1	AD Administration	Daylight hours only, subject to PPR .
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR, a valid indemnity is required. Full details of landing fees and rules for airfield users can be found on the Orkney Islands Council website: http://www.orkney.gov.uk/Service-Directory/T/airfields.htm

EGES AD 2.4 HANDLING SERVICES AND FACILITIES

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EGES AD 2.5 PASSENGER FACILITIES

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EGES AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGES AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations. No snow clearing facilities available. During winter months pilots are advised to contact the Airfield Superintendent for the latest runway conditions. Tel: 01856-873535.

EGES AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGES AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGES AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGES4300) 20/APPROACH 02/ TAKE-OFF	Farm Building Ridge Line	591513.41N 0023425.61W	76 FT		No	
(EGES4200) 20/APPROACH 02/ TAKE-OFF	Farm Building Ridge Line	591513.24N 0023426.87W	76 FT		No	
(EGES4100) 16/APPROACH 34/ TAKE-OFF	Farm Building Ridge Line	591510.55N 0023443.80W	86 FT		No	
(EGES4000) 16/APPROACH 34/ TAKE-OFF	Cottage Chimney	591510.03N 0023444.36W	91 FT		No	
(EGES5400) 20/APPROACH 02/ TAKE-OFF	Centre of Road	591509.96N 0023422.90W	52 FT		No	Vehicles
(EGES3900) 16/APPROACH 34/ TAKE-OFF	Cottage Chimney	591509.93N 0023445.06W	91 FT		No	
(EGES5300) 16/APPROACH 34/ TAKE-OFF	Centre of Road	591508.32N 0023436.19W	62 FT		No	Vehicles
(EGES5200) 10/APPROACH 28/ TAKE-OFF	Centre of Road	591505.24N 0023452.68W	63 FT		No	Vehicles
(EGES3800) 10/APPROACH 28/ TAKE-OFF	Small School Windmill Hub	591504.33N 0023507.62W	87 FT		No	
(EGES5500) 28/APPROACH 10/ TAKE-OFF	Centre of Road	591501.54N 0023418.53W	42 FT		No	Vehicles
(EGES5000) 28/APPROACH 10/ TAKE-OFF	Building Ridge Line	591458.21N 0023320.15W	63 FT		No	
(EGES4600) 34/APPROACH 16/ TAKE-OFF	Farm Building Ridge Line	591456.65N 0023420.78W	60 FT		No	
(EGES4800) 28/APPROACH 10/ TAKE-OFF	Building Ridge Line	591456.33N 0023327.82W	82 FT		No	
(EGES4900) 28/APPROACH 10/ TAKE-OFF	Building Ridge Line	591456.14N 0023327.00W	86 FT		No	
(EGES4500) 34/APPROACH 16/ TAKE-OFF	Farm Building Ridge Line	591456.07N 0023421.34W	66 FT		No	
(EGES4700) 34/APPROACH 16/ TAKE-OFF	Cottage Chimney	591456.02N 0023417.24W	74 FT		No	
(EGES4400) 34/APPROACH 16/ TAKE-OFF	Farm Building Ridge Line	591455.42N 0023422.02W	60 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Wind Turbine	591450.88N 0023358.78W	91 FT	72 FT	No	
	BT Mast	591326.78N 0023855.05W	371 FT		No	
	BT Mast	591314.72N 0023916.00W	294 FT		No	
	Windmill	591135.67N 0024140.67W	361 FT		No	
	Windmill	591126.14N 0024127.18W	393 FT		No	
	Windmill	591112.91N 0024122.01W	406 FT		No	

EGES AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGES AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
02	021.30°	527 x 18 M	RWY surface: Graded Hardcore	591453.55N 0023435.37W	THR 43.7 FT	
20	201.30°	527 x 18 M	RWY surface: Graded Hardcore	591507.66N 0023424.63W	THR 51.6 FT	
10	102.02°	410 x 30 M	RWY surface: Grass	591504.71N 0023447.62W	THR 62.1 FT	
28	282.03°	410 x 30 M	RWY surface: Grass	591501.95N 0023422.32W	THR 44.4 FT	
16	158.73°	349 x 30 M	RWY surface: Grass	591506.74N 0023435.03W	THR 58.1 FT	
34	338.73°	349 x 30 M	RWY surface: Grass	591456.20N 0023427.02W	THR 44.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 02 Starter extension of 30 M.
						RWY 20 Starter extension of 30 M.
						RWY 10
						RWY 28
						RWY 16
						RWY 34

EGES AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02	497 M	497 M	497 M	467 M	TORA, TODA and ASDA include a 30 M starter extension.
20	497 M	497 M	497 M	467 M	TORA, TODA and ASDA include a 30 M starter extension.
10	410 M	410 M	410 M	410 M	
28	410 M	410 M	410 M	410 M	
16	349 M	349 M	349 M	349 M	
34	349 M	349 M	349 M	349 M	

EGES AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
20		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
10		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
28		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		

EGES AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGES AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 591507.83N 0023430.12W
2	TLOF and/or FATO elevation	TLOF: 56.0 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	TLOF: Letter H
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGES AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGES AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

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EGES AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGES AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All GA aircraft must park only on the clearly designated grass GA APRON. GA aircraft must not park on the main tarmac apron.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Visiting pilots should note that during periods of prolonged rainfall the grass runway can become very soft especially during the winter months.
b) **Runway 02/20:** Graded hardcore runway is generally unsuitable for light aircraft with low ground/propeller clearance due to unstabilised surface and as a result it would be advisable to carry out any power checks on the tarmac apron before departure.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGES AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGES AD 2.22 FLIGHT PROCEDURES

a) RTF contact with Kirkwall recommended.

EGES AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGES AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGES-2-1

EGES AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 591501N 0023430W

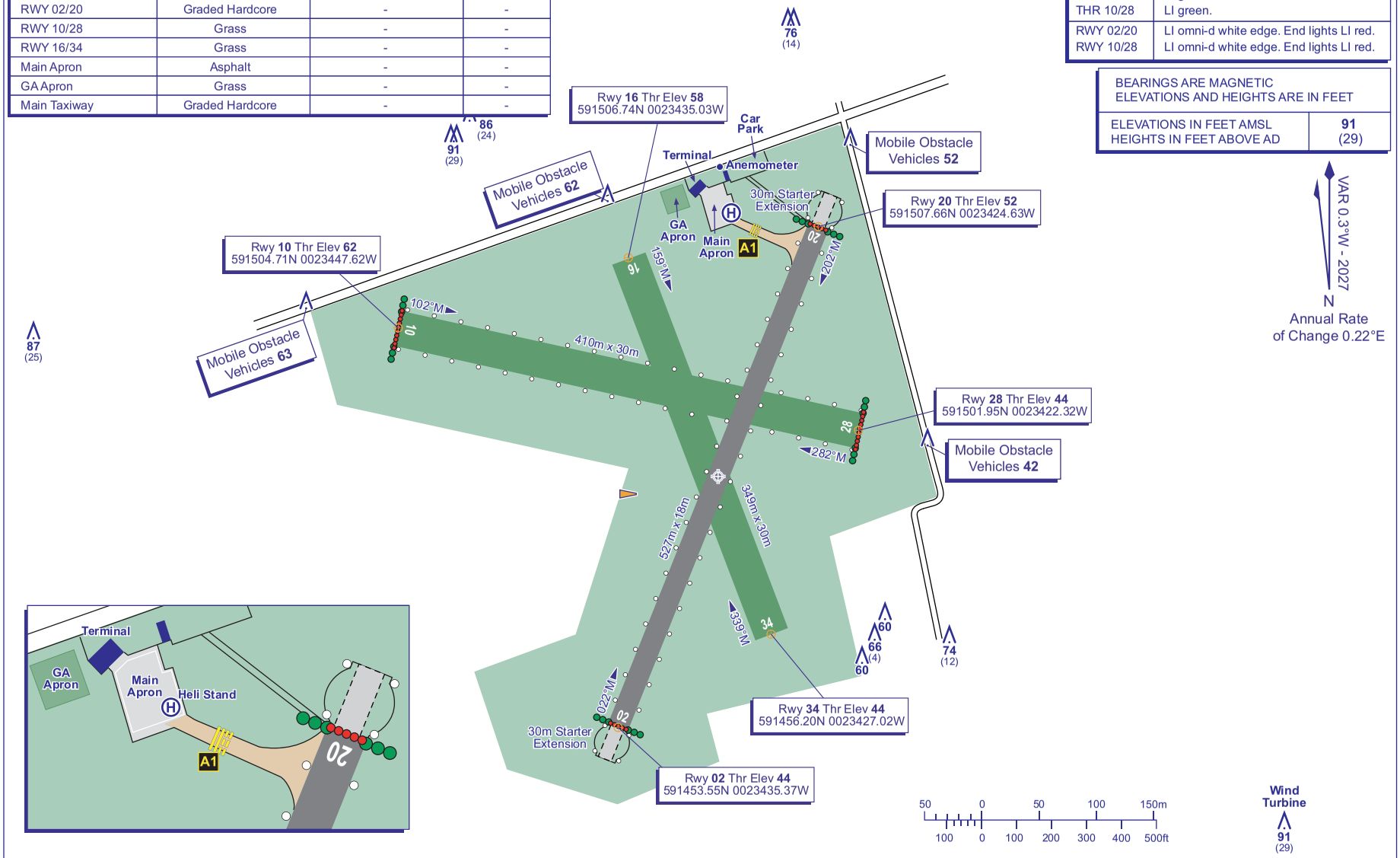
AD ELEV 62FT

SANDAY
EGES

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 02/20	Graded Hardcore	-	-
RWY 10/28	Grass	-	-
RWY 16/34	Grass	-	-
Main Apron	Asphalt	-	-
GA Apron	Grass	-	-
Main Taxiway	Graded Hardcore	-	-

LIGHTING	
THR 02/20	LI green.
THR 10/28	LI green.
RWY 02/20	LI omni-d white edge. End lights LI red.
RWY 10/28	LI omni-d white edge. End lights LI red.

BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	91 (29)



CHANGE (11/25): GA APRON ADDED.

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EGCF — SANDTOFT

EGCF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCF — SANDTOFT

EGCF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 533335N Long: 0005130W Mid point of Runway 05/23.
2	Direction and distance from city	7 NM SW of Scunthorpe.
3	Elevation / Reference temperature / Mean Low Temperature	13 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	156 FT
5	Magnetic Variation / Annual Change	0.07°E (2022) / 0.21°E
6	AD Administration Address Telephone	E-PLANE LTD Sandtoft Aerodrome, Belton, Doncaster, DN9 1PN. 01427-872034
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGCF AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1700).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours.
8	Fuelling	AVGAS only available on Saturdays and Sundays between 0800-1600 (0700-1500). Available during weekdays only by prior arrangement with Aerodrome Management. Call 07802-902535 for details.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Aerodrome PPR for non-radio aircraft, and for non-member movements outside ATS hours. Available for aircraft requiring a licenced aerodrome on Saturdays only until further notice. Contact Operator if a licenced aerodrome status is required on other days.

EGCF AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL W80, W100.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Comprehensive repair facility for EASA/N/2 certified aircraft up to 5700 kg, CAA Annex 2, and LAA type.
7	Remarks	

EGCF AD 2.5 PASSENGER FACILITIES

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EGCF AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category A2 available on remission during licensed hours. Saturday and Sunday only. PPR required if services needed Monday to Friday.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Up to 2730 KG.
4	Remarks	

EGCF AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGCF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGCF AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGCF AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCF6550) 23/APPROACH 05/ TAKE-OFF	TREE	533345.68N 0005108.79W	63 FT		No	
(EGCF6548) 23/APPROACH 05/ TAKE-OFF	TREE	533345.03N 0005111.12W	42 FT		No	
(EGCF6591) 05/APPROACH 23/ TAKE-OFF	BUSH	533323.06N 0005147.54W	25 FT		No	
(EGCF6592) 05/APPROACH 23/ TAKE-OFF	BUSH	533322.84N 0005148.21W	32 FT		No	
(EGCF6595) 05/APPROACH 23/ TAKE-OFF	HEDGE	533321.59N 0005149.89W	23 FT		No	
(EGCF6611) 05/APPROACH 23/ TAKE-OFF	TREE	533321.09N 0005155.71W	37 FT		No	
(EGCF4057) 05/APPROACH 23/ TAKE-OFF	FLOODLIGHT	533320.32N 0005151.96W	35 FT		No	
(EGCF6306) 05/APPROACH 23/ TAKE-OFF	FLOODLIGHT	533319.70N 0005152.69W	36 FT		No	
(EGCF6054) 05/APPROACH 23/ TAKE-OFF	UTILITY POLE	533319.47N 0005153.28W	38 FT		No	
(EGCF6304) 05/APPROACH 23/ TAKE-OFF	UTILITY POLE	533319.29N 0005153.75W	45 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCF6014)	LIGHT GANTRY	533355.11N 0005119.51W	78 FT		No	
(EGCF6007)	LIGHT GANTRY	533347.82N 0005144.03W	79 FT		No	
(EGCF6554)	TREE	533341.37N 0005055.23W	104 FT		No	
(EGCF6003)	LIGHT GANTRY	533336.58N 0005202.14W	81 FT		No	
(EGCF6562)	TREE	533332.40N 0005110.21W	101 FT		No	
(EGCF6564)	TREE	533331.80N 0005108.40W	102 FT		No	

EGCF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGCF AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
05	044.47°	880 x 18 M	RWY surface: Asphalt	533324.67N 0005147.22W 155.0 FT	THR 10.0 FT	
23	224.47°	880 x 18 M	RWY surface: Asphalt	533340.64N 0005120.89W 155.0 FT	THR 9.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 05
						RWY 23 Threshold displaced by 170 M.

EGCF AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	**2**	**3**	**4**	**5**	**6**
05	692 M	692 M	799 M	799 M	
23	799 M Valid: HJ	799 M Valid: HJ	799 M Valid: HJ	692 M Valid: H24	
23	692 M Valid: HN	692 M Valid: HN	692 M Valid: HN		

EGCF AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
23		Green wingbars	APAPI Left/4° 12 FT			Light intensity low	Red		

EGCF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGCF AD 2.16 HELICOPTER LANDING AREA

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EGCF AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SANDTOFT ATZ A circle, 2 NM radius, centred at 533335N 0005130W on longest notified runway (05/ 23)	Upper limit: 2000 FT AGL Lower limit: SFC	D G	SANDTOFT RADIO English	5000 FT		

EGCF AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	SANDTOFT RADIO	130.415 A/G frequency.			0900-1700 (0800-1700).	ATZ hours coincident with A/G hours.

EGCF AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGCF AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Visiting pilots to wear high visibility clothing and follow procedure when crossing runway from Hold F to control.
b) Transponder equipped aircraft operating in the circuit to squawk the VFR aerodrome traffic pattern conspicuity code (7010).

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

Not applicable

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

a) Runway 05 is not licensed for night use.

7 TRAINING

a) Aerodrome available for helicopter/gyrocopter training operations.
b) Non-based aircraft must apply for PPR for training purposes.

EGCF AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots should avoid overflying the village of Belton, adjacent to the east.

EGCF AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Local flying area northeast of aerodrome clear of built up areas.
b) Circuit directions: Join overhead at 1500 FT.

EGCF AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGCF AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCF-2-1

EGCF AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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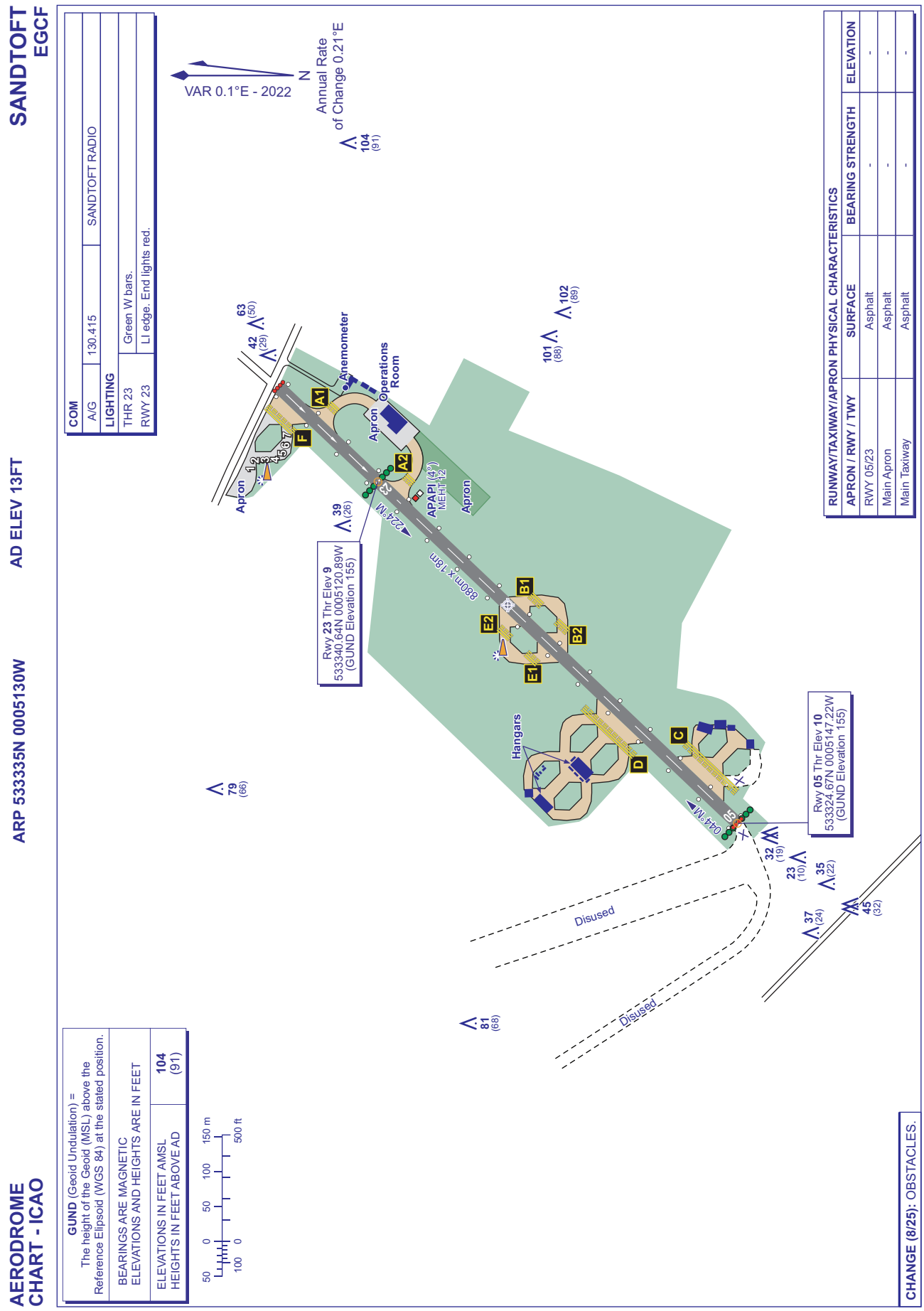
SANDTOFT
EGCF
AERODROME
CHART - ICAO
ARP 533335N 0005130W
AD ELEV 13FT
COM
A/G 130.415 SANDTOFT RADIO
LIGHTING
THR 23 Green W bars.
RWY 23 LI edge. End lights red.
VAR 0.1°E - 2022
N
Annual Rate of Change 0.21°E
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY | SURFACE | BEARING STRENGTH | ELEVATION
RWY 05/23 Asphalt - -
Main Apron Asphalt - -
Main Taxiway Asphalt - -
Rwy 23 Thr Elev 9
533340.64N 0005120.89W
(GUND Elevation 155)
Rwy 05 Thr Elev 10
533324.67N 0005147.22W
(GUND Elevation 155)
Anemometer
Operations Room
Apron
APAPI (4°)
MEHT 12
860m x 18m
224°M
044°M
Hangars
Disused
Disused
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL 104 (91)
HEIGHTS IN FEET ABOVE AD
50 0 50 100 150 m
100 0 500 ft
CHANGE (8/25): OBSTACLES.

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EGHE — SCILLY ISLES/ST MARYS

EGHE AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHE — SCILLY ISLES/ST MARYS

EGHE AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 495448N Long: 0061730W Midpoint of Runway 14/32.
2	Direction and distance from city	1 NM E of Hugh Town.
3	Elevation / Reference temperature / Mean Low Temperature	121 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	175 FT
5	Magnetic Variation / Annual Change	1.45°W (2022) / 0.20°E
6	AD Administration Address Telephone AFS E-mail address	COUNCIL OF THE ISLES OF SCILLY. St Mary's Airport, St Mary's, Isles of Scilly, TR21 0NG. 01720-424335 EGHEZTZX ATC@stmarysairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGHE AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0815-1215, 1315-1730 (0700-1730); Sat 0815-1215 (0700-1730).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	
9	Handling	On request via ATC.
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR by telephone or email only.

EGHE AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	For details Tel: 01720-424335.
2	Fuel and oil types	
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGHE AD 2.5 PASSENGER FACILITIES

1	Hotels	In vicinity.
2	Restaurants	Bar and Buffet.
3	Transportation	Taxis by arrangement.
4	Medical facilities	Wheelchair available.
5	Bank and Post Office	In Hugh Town.
6	Tourist Office	In Hugh Town.
7	Remarks	

EGHE AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A3 Occasionally RFF CAT 3 may be operated under remission as notified by NOTAM.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Aircraft can be removed by outside contractor by arrangement with Airport Authority/ATC.
4	Remarks	

EGHE AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGHE AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt
2	Taxiway width, surface and strength	Taxiway A: 16.5 M Surface: Asphalt Taxiway H: 7.1 M Surface: Concrete
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGHE AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Painted surface guide lines and stand numbers to/from each designated aircraft stand.
2	Runway and taxiway markings and lighting	Runway light(s): Runway guard lights and backlit holding point designator signs at each aircraft runway holding point except at holding point H on Taxiway H. No guard lights or back lit signage at holding point H on Taxiway H, only a reflective holding point designator sign and surface markings available. Low intensity, blue edge Runway end turning circle lights available for all runways.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Apron edge designated by blue reflective Linlaner markers. WDI: 495443.76N 0061730.55W, 139.14 FT (LGTD).

EGHE AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHE1120) 27/APPROACH	TREE	495450.31N 0061714.08W	122 FT	49 FT	No	
(EGHE1112) 32/APPROACH	NATURAL_HIGHPOINT	495438.68N 0061718.42W	84 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHE1025)	MAST	495556.79N 0061819.25W	399 FT	283 FT	Yes Solid Red	
(EGHE1026)	MAST	495545.32N 0061813.31W	272 FT	110 FT	No	

EGHE AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	As per operational hours.
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGHE AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
09	087.10°	522 x 18 M	RWY surface: Asphalt	495447.80N 0061743.44W 175.5 FT	THR 102.5 FT TDZ 120.4 FT	RWY 09 -1:520 Down RWY 27 1:520 Up
27	267.10°	522 x 18 M	RWY surface: Asphalt	495448.62N 0061718.36W 175.4 FT	THR 104.6 FT TDZ 120.4 FT	RWY 09 -1:520 Down RWY 27 1:520 Up
14	139.39°	695 x 23 M	RWY surface: Asphalt	495455.21N 0061740.14W 175.4 FT	THR 103.9 FT TDZ 116.4 FT	RWY 14 -1:105 Down RWY 32 1:105 Up
32	319.39°	695 x 23 M	RWY surface: Asphalt	495440.45N 0061720.54W 175.4 FT	THR 82.4 FT TDZ 116.4 FT	RWY 14 -1:105 Down RWY 32 1:105 Up

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 09 The first 100 M of Runway 09 rises at a 1:20 gradient (5%). The first 100 M of Runway 27 rises at a 1:23 gradient (4.3%). Strip Dimensions: 582 x 60 M

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 27 The first 100 M of Runway 09 rises at a 1:20 gradient (5%). The first 100 M of Runway 27 rises at a 1:23 gradient (4.3%). Threshold inset 21 M. Strip Dimensions: 591 x 140 M
						RWY 14 Starter extension of 13 M. The first 100 M of Runway 14 rises at a 1:32 gradient (3.1%). The first 300 M of Runway 32 rises at a 1:30 gradient (3.3%). Threshold inset 34 M. Strip Dimensions: 663 x 60 M
						RWY 32 Starter extension of 38 M. The first 100 M of Runway 14 rises at a 1:32 gradient (3.1%). The first 300 M of Runway 32 rises at a 1:30 gradient (3.3%). Threshold inset 60 M. Strip Dimensions: 695 x 140 M

EGHE AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
14	622 M	622 M	622 M	603 M	
32	647 M	647 M	647 M	603 M	
09	522 M	522 M	522 M	522 M	
27	510 M	510 M	510 M	501 M	

EGHE AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09		Light intensity high RTILs, variable elevated green wingbars	PAPI Left/3.5° 15 FT			Variable HI elevated white	Variable HI elevated red wingbars		
27	Three HI sequenced strobes 80 M apart to 80 M before threshold. Light intensity high	Light intensity high RTILs, variable elevated green wingbars	PAPI Left/3.5° 15 FT			Variable HI elevated white	Variable HI elevated red wingbars		
14		Light intensity high RTILs, variable elevated green wingbars	PAPI Left/3.5° 15 FT			Variable HI elevated white	Variable HI elevated red wingbars		
32		Light intensity high RTILs, variable elevated green wingbars	PAPI Left/3.5° 15 FT			Variable HI elevated white	Variable HI elevated red wingbars		

EGHE AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 495451.36N 0061741.45W Flashing Green 'SC' - VCR roof.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 495443.45N 0061730.01W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Diesel Generator 10 S
5	Remarks	Apron floodlighting.

EGHE AD 2.16 HELICOPTER LANDING AREA

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EGHE AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SCILLY ISLES/ST MARY'S ATZ A circle, 2 NM radius, centred at 495448N 0061730W on longest notified runway (14/ 32)	Upper limit: 2000 FT AGL Lower limit: SFC	G	SCILLIES APPROACH English	3000 FT		

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LAND'S END RMZ 501705N 0055014W - 501703N 0053706W - 500950N 0052951W - 495559N 0053109W - 495602N 0055051W - 494924N 0061338W thence clockwise by the arc of a circle radius 6 NM centred on 495451N 0061728W (STM NDB) to 500009N 0062148W - 500907N 0055514W - 501705N 0055014W	Upper limit: 4000 FT ALT Lower limit: SFC	G	SCILLIES APPROACH English	3000 FT		ATS Unit callsign: Entering from East: Land's End Tower (eng) OR Culdrose Approach (eng). Entering from West: Scillies Approach (eng). Land's End RMZ hours coincident with EGHC AD hours as detailed in EGHC AD 2.3 or as activated by NOTAM.

EGHE AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	SCILLIES APPROACH	124.880 DOC 40 NM/ 10,000 FT.			Mon-Fri 0815-1215, 1315-1730 (0700-1730); Sat 0815-1215 (0700-1730).	ATZ hours coincident with Approach hours. VDF 495442.91N 0061732.74W
TWR	SCILLIES TOWER	124.880 DOC 40 NM/ 10,000 FT.			Mon-Fri 0815-1215, 1315-1730 (0700-1730); Sat 0815-1215 (0700-1730).	VDF 495442.91N 0061732.74W
OTHER	SCILLIES FIRE	121.600 Fire frequency. Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	SCILLIES RADIO	124.880 A/G frequency. DOC 25 NM/4,000 FT.			Outside of ATS hours.	Air Ground Communication Service available at short notice for SAR and Air Ambulance Flights.

EGHE AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB (L) 0.59°W (2027)	STM	321.000 kHz	Mon-Fri 0815-1215, 1315-1730 (0700-1730); Sat 0815-1215 (0700-1730).	495450.74N 0061727.99W		On AD. Range 15 NM. Normally radiates H24.

EGHE AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Flight Plans should be filed for all flights to and from Scilly Isles/St Mary's aerodrome.
b) Non-radio aircraft not accepted.
c) General Aviation parking on grass only NE of Runway 14.

d) Access from/to GA parking shall be via Exit/Entry gates along boundary fence. Telephone for transport available on front of Fire Station building, or walk via perimeter track around aerodrome to Terminal Building.
e) High Visibility Clothing mandatory with exception of passengers under escort.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Pilots should exercise extreme caution when landing or taking-off at this aerodrome, which is markedly hump-backed. The gradients increase to as much as 1 in 13 at runway ends.
b) A perimeter road runs around the northern part of the aerodrome and the vehicular traffic is liable to cross the approach to Runway 14.
c) Locally based aircraft activity may take place outside of published hours, also SAR aircraft, air ambulance and Trinity House Helicopters.
d) Runway 14 PAPI signals are visible to the east of the runway extended centre-line where normal obstacle clearance is not guaranteed. They should only be used when the aircraft is aligned with the runway.
e) Pilots of aircraft are cautioned to exercise great care when using the Runway 32 end turning circle due to the reduced clearance to the south-south-east where a granite outcrop inhibits the provision of normal taxiway clearances; consequently the reverse turn to line-up on Runway 32 should be commenced as soon as is practicable.
f) Turbulence and/or windshear may affect the final half mile of approaches to all runways and may be increased by valley effect and/or structures when using Runways 09, 14 or 27.
g) Buildings 28 FT AAL adjacent to the northeast boundary.
Building (Lgtd) 37 FT AAL adjacent to the northwest boundary.
h) Footpath crosses the Runway 32 turning circle controlled by traffic lights, pedestrians liable to cross the undershoot.
i) Outside operational hours ATZ may be activated without notice to accommodate SAR and Air Ambulance Flights with an Air Ground Service provided.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGHE AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGHE AD 2.22 FLIGHT PROCEDURES

1 LAND'S END RMZ

a) Passenger carrying flights operating between Land's End Airport, Penzance Heliport, Tresco Heliport and Scilly Isles / St Mary's Aerodrome operate within airspace designated as an RMZ centred on a direct track from Land's End to Scilly Isles from the SFC to 4000 FT ALT. Pilots intending to transit the Land's End RMZ must comply with section 2 below.
b) Pilots intending to transit the Land's End RMZ must contact either Culdrose ATC on 134.055, Land's End ATC on 120.255 MHz (if approaching from the east) or St Mary's ATC on 124.880 MHz (if approaching from the west), prior to entering. Pilots of aircraft transiting the Culdrose AIAA should contact Culdrose ATC on 134.055 (Refer to AD 2-EGHC-3-1).
c) Aircraft operating under VFR may be asked to follow the Northern (R252 LND) route according to traffic and/or weather conditions in the Land's End RMZ.

2 LAND'S END RMZ REQUIREMENTS

For flight within the Land's End RMZ aircraft commanders must comply with one of the following:

a) Establish satisfactory two-way RTF communication with and pass pertinent flight details to ATC prior to entering the Land's End RMZ and maintain two-way communication with ATC whilst operating within the Land's End RMZ.
b) Conduct flight in accordance with valid Letter of Agreement.
c) Conduct flight in accordance with agreed tactical arrangements with either Land's End ATC or St Mary's ATC.

3 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGHE AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGHE AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHE-2-1
LAND'S END RADIO MANDATORY ZONE (RMZ)
AD 2.EGHE-3-1
INSTRUMENT APPROACH CHART NDB(L) RWY 27 (CAT A) - ICAO
AD 2.EGHE-8-1
INSTRUMENT APPROACH CHART NDB(L) RWY 32 (CAT A) - ICAO
AD 2.EGHE-8-2

EGHE AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

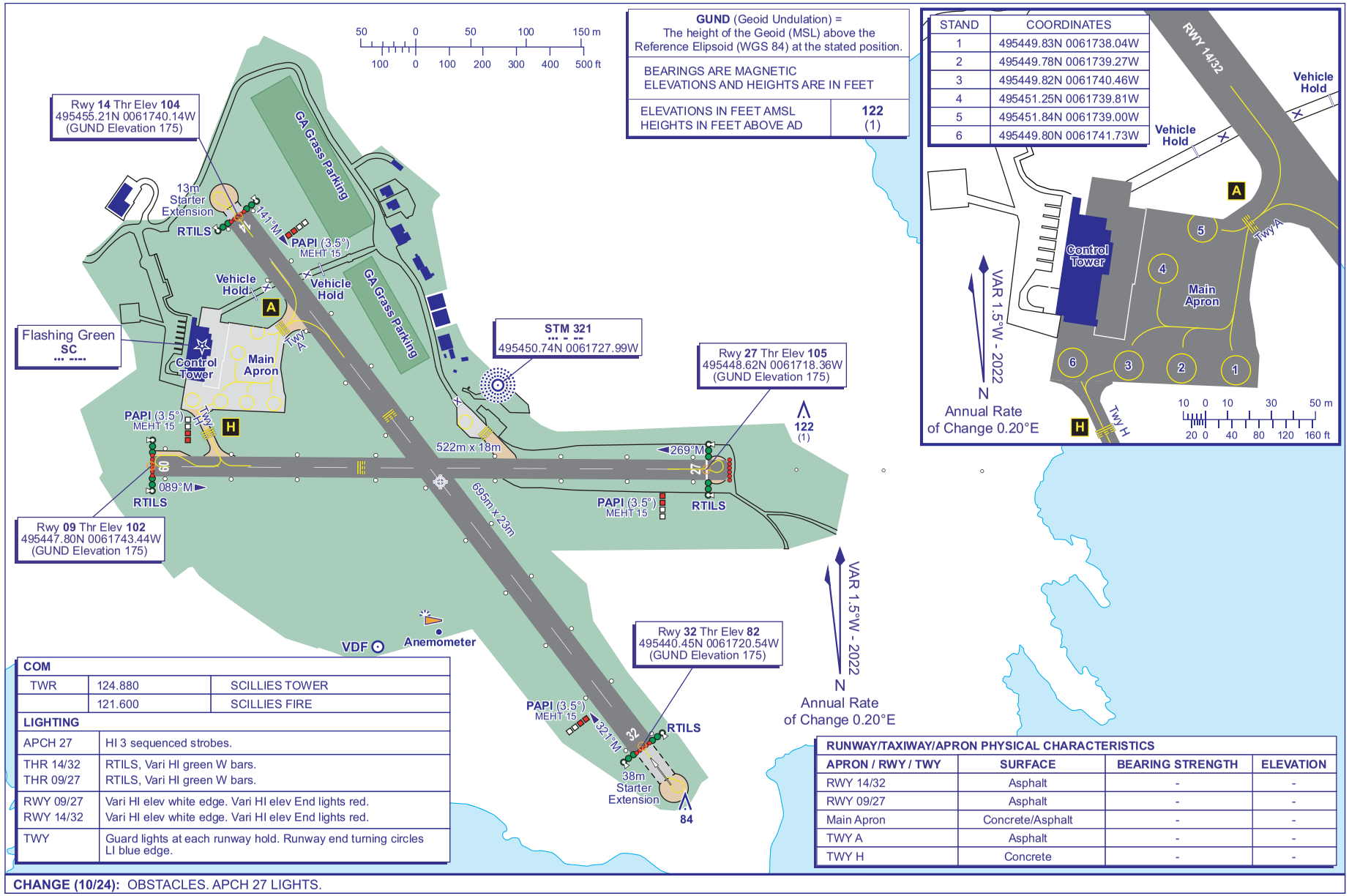
Not applicable

AERODROME CHART - ICAO

ARP 495448N 0061730W

AD ELEV 121FT

SCILLY ISLES/St Mary's
EGHE



GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	122 (1)

STAND	COORDINATES
1	495449.83N 0061738.04W
2	495449.78N 0061739.27W
3	495449.82N 0061740.46W
4	495451.25N 0061739.81W
5	495451.84N 0061739.00W
6	495449.80N 0061741.73W

COM		
TWR	124.880	SCILLIES TOWER
	121.600	SCILLIES FIRE

LIGHTING	
APCH 27	HI 3 sequenced strobes.
THR 14/32 THR 09/27	RTILS, Vari HI green W bars. RTILS, Vari HI green W bars.
RWY 09/27 RWY 14/32	Vari HI elev white edge. Vari HI elev End lights red. Vari HI elev white edge. Vari HI elev End lights red.
TWY	Guard lights at each runway hold. Runway end turning circles LI blue edge.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS

APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 14/32	Asphalt	-	-
RWY 09/27	Asphalt	-	-
Main Apron	Concrete/Asphalt	-	-
TWY A	Asphalt	-	-
TWY H	Concrete	-	-

CHANGE (10/24): OBSTACLES. APCH 27 LIGHTS.

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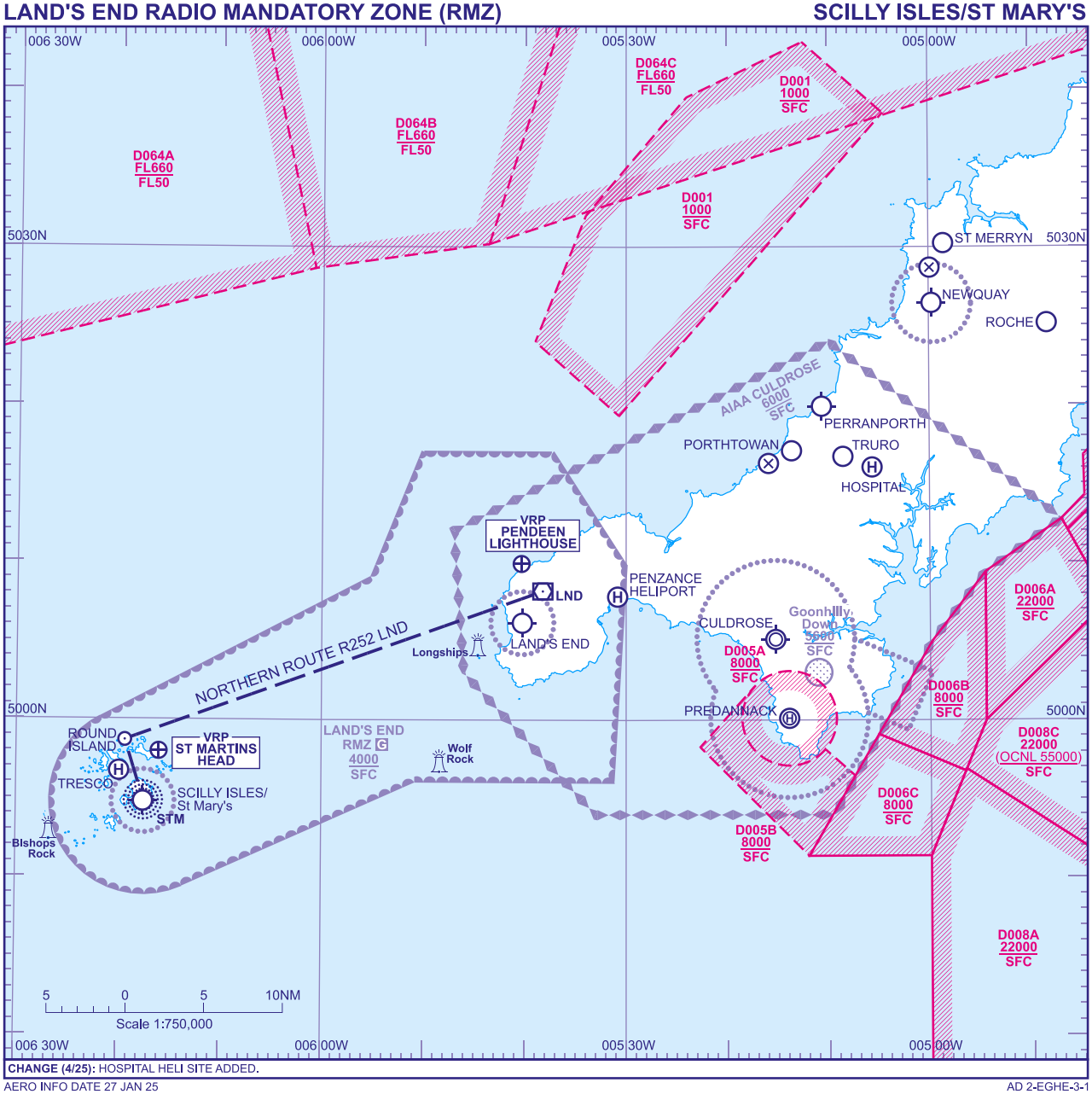
LAND'S END RADIO MANDATORY ZONE (RMZ)

SCILLY ISLES/ST MARY'S



CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 27 JAN 25

AD 2-EGHE-3-1

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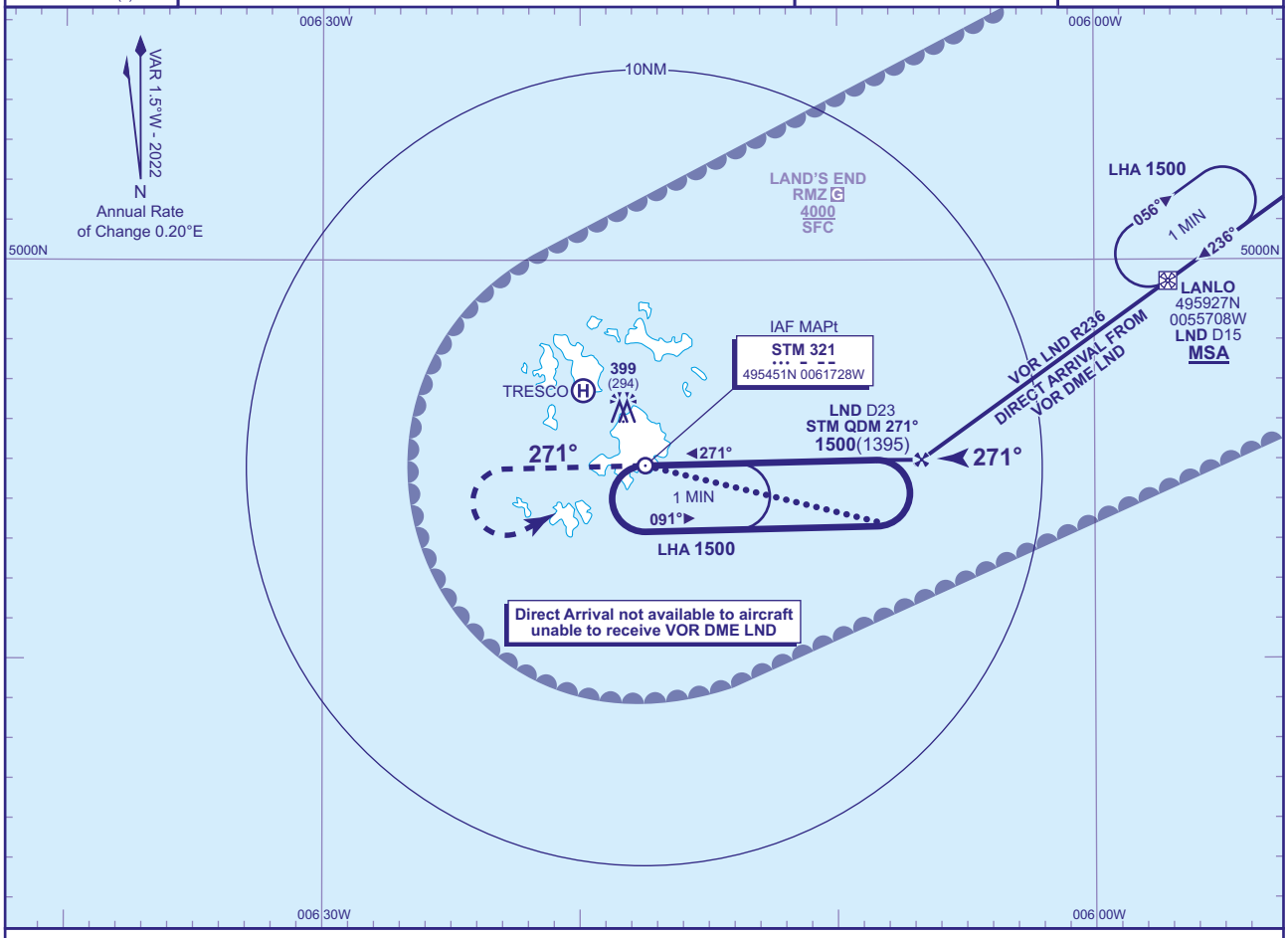
INSTRUMENT APPROACH CHART - ICAO

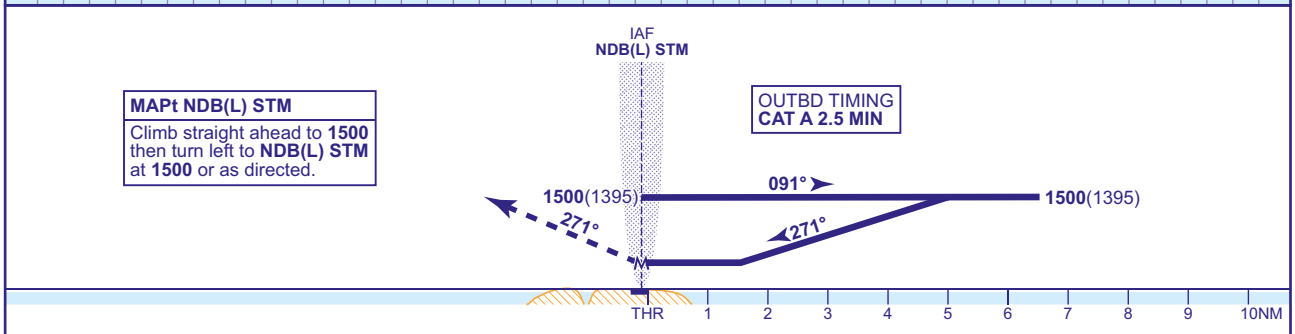
SCILLY ISLES/ST MARY'S
NDB(L)
RWY 27
(ACFT CAT A)



MSA 25NM NDB(L) STM

APP	124.880	SCILLIES APPROACH	AD ELEVATION	121	TRANSITION ALTITUDE 3000
TWR	124.880	SCILLIES TOWER	THR ELEVATION	105	
			OBSTACLE ELEVATION 399 AMSL (294) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		





MAPt NDB(L) STM
Climb straight ahead to **1500** then turn left to **NDB(L) STM** at **1500** or as directed.

Aircraft Category		A
OCA (OCH)	Procedure	**510**(405)
VM(C)OCA (OCH AAL)	Total Area	**700**(579)
	South of RWY 09/27	**520**(399)

ALTERNATIVE BASE TURN PROCEDURE
Overhead NDB(L) STM (IAF) at **1500**(1395) fly outbound on NDB(L) STM QDR 105° for 2.5 MIN. Base turn left onto FAT. When established continue as for basic procedure.

DIRECT ARRIVAL VIA VOR DME LND
Arrival via VOR LND R236 **not below MSA**. After crossing LANLO R236 LND DME 15 (IAF) descend to be at **1500**(1395) by the FAF (R236 LND DME 23). When established on the FAT descend to MDA.

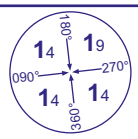
NOTE 1 FAT is offset 2° and intercepts the RWY C/L 0.9NM before the THR.
2 VOR DME LND is not monitored by Scillies ATC.
3 Nominal distance FAF - runway threshold 6.7NM.

CHANGE (13/21): LAND'S END TRANSIT CORRIDOR REPLACED BY RMZ.

AERO INFO DATE 06 OCT 21

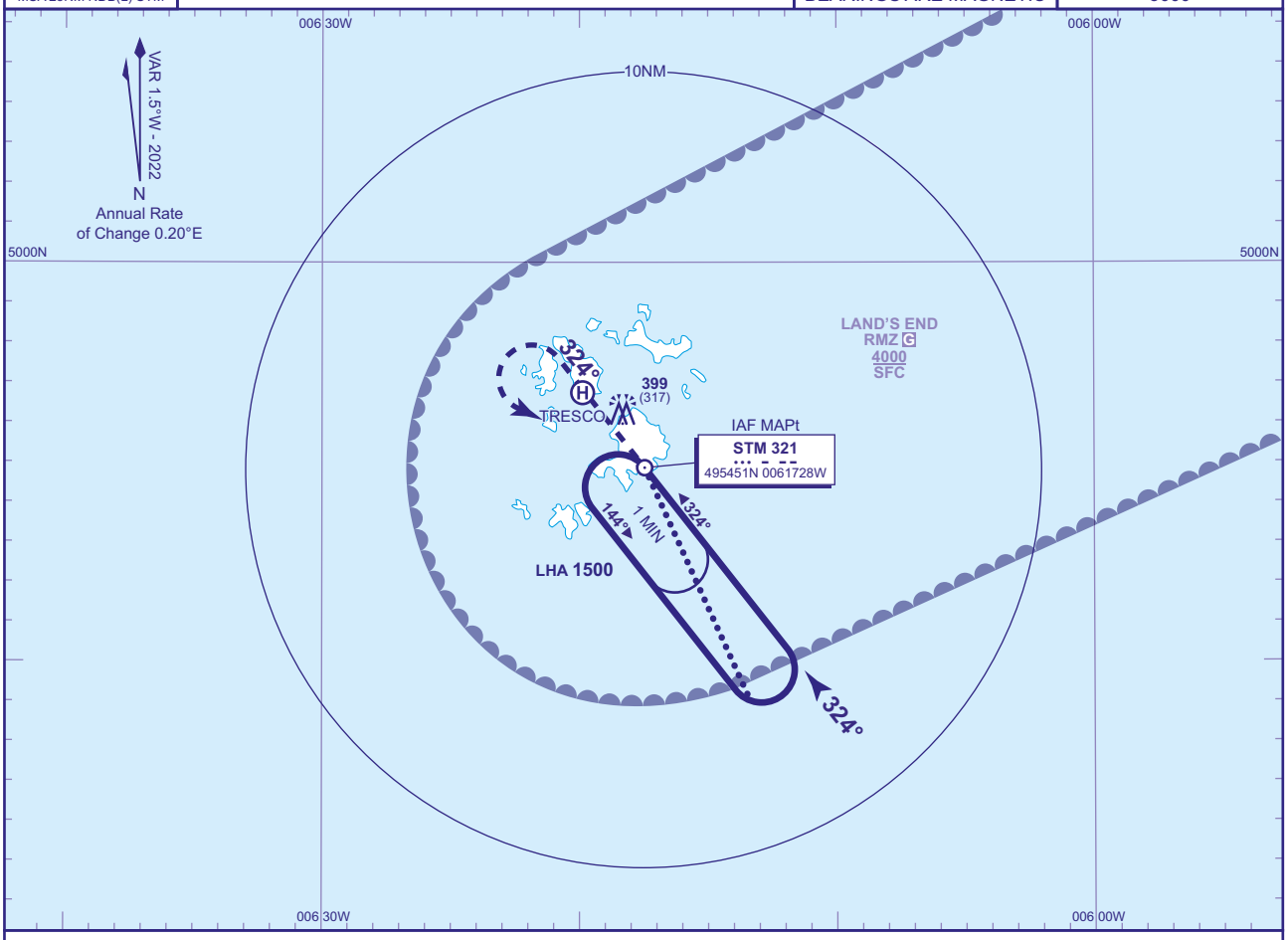
INSTRUMENT APPROACH CHART - ICAO

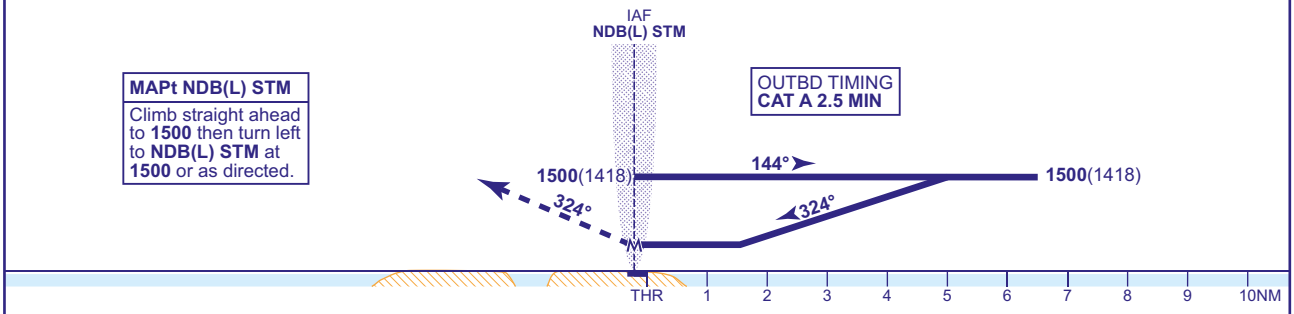
SCILLY ISLES/ST MARY'S
NDB(L)
RWY 32
(ACFT CAT A)



MSA 25NM NDB(L) STM

APP	124.880	SCILLIES APPROACH	AD ELEVATION	**121**	TRANSITION ALTITUDE **3000**
TWR	124.880	SCILLIES TOWER	THR ELEVATION	**82**	
			OBSTACLE ELEVATION **399 AMSL** (317) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		





MAPt NDB(L) STM
Climb straight ahead to **1500** then turn left to **NDB(L) STM** at **1500** or as directed.

Aircraft Category		A
OCA (OCH)	**Procedure**	**500**(418)
VM(C)OCA (OCH AAL)	**Total Area**	**700**(579)
	South of RWY 09/27	**520**(399)

ALTERNATIVE BASE TURN PROCEDURE
Overhead NDB(L) STM (IAF) at **1500**(1418) fly outbound on NDB(L) STM QDR 158° for 2.5 MIN. Base turn left onto FAT. When established descend to MDA.

NOTE FAT is offset 3° from RWY C/L and intercepts the RWY C/L 0.9NM before the THR.

CHANGE (13/21): LAND'S END TRANSIT CORRIDOR REPLACED BY RMZ.

AERO INFO DATE 06 OCT 21 AD 2-EGHE-8-2

EGCJ — SHERBURN-IN-ELMET

EGCJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCJ — SHERBURN-IN-ELMET

EGCJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 534703N Long: 0011304W Midpoint of Runway 10/28.
2	Direction and distance from city	5.5 NM W of Selby.
3	Elevation / Reference temperature / Mean Low Temperature	26 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	158 FT
5	Magnetic Variation / Annual Change	0.09°W (2022) / 0.21°E
6	AD Administration Address Telephone E-mail address Web address	SHERBURN AERO CLUB LTD Sherburn-in-Elmet Aerodrome, New Lennerton Lane, Sherburn-in-Elmet, Leeds, West Yorkshire, LS25 6JE. 01977-682674 flightdesk@sherburnaeroclub.com www.sherburnaeroclub.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGCJ AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-SS (0800-1830).
2	Customs and immigration	By arrangement. Minimum notice periods apply.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours. Self briefing.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As AD hours. Self briefing.
7	ATS	0900-SS (0800-1830).
8	Fuelling	H24. Self service.
9	Handling	As AD hours and by arrangement.
10	Security	
11	De-icing	
12	Remarks	

EGCJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET-A1, AVGAS 100LL, AVGAS UL91 W80, W100, W80+, W100+, 80, 100, W15W-50, Sport Plus 4.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Sherburn Engineering Ltd (Mon-Fri).
7	Remarks	

EGCJ AD 2.5 PASSENGER FACILITIES

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EGCJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGCJ AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGCJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A: 15 M Surface: Asphalt Taxiway B: 15 M Surface: Asphalt Taxiway C: 7.5 M Surface: Asphalt Taxiway LINK L1: 9 M Surface: Grass Link L1 is grass with reinforcement matting.
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGCJ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Limited space available, therefore all aircraft are normally required to park on Main Grass Parking. Surface markings; Yellow centre line, directional arrow guidance for refuelling. Yellow Hatched and Chevron markings for obstruction and hazard warnings surrounding the fuel points.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 10/28: Runway designation, runway centre-line, green reflectors for entry and run off. Runway 28: permanently displayed threshold. Taxiway marking aid(s): Alpha, Bravo and Charlie: Tarmac. Yellow centre-line with green reflectors and blue edge reflectors. Holding positions.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Windsleeves: 534719.81N 0011251.83W, 534701.78N 0011301.81W (LGTD).

EGCJ AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCJ1752) 19/APPROACH 01/ TAKE-OFF	VEHICLES ON ROAD	534726.64N 0011239.15W	41 FT	15 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCJ1758) 24/APPROACH 06/ TAKE-OFF	VEHICLES ON ROAD	534725.19N 0011247.92W	40 FT	14 FT	No	

In circling area and at aerodrome					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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EGCJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	
2	Hours of service MET Office outside hour	
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone through Sherburn Flight Desk.
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	METAR/TAF/FORM 214/FORM 215. Internet access.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Unofficial Met Observations made during AD hours.

EGCJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
01	008.06°	581 x 21 M	RWY surface: Grass	534704.18N 0011249.79W 158.3 FT	THR 23.5 FT	
19	188.06°	581 x 21 M	RWY surface: Grass	534720.99N 0011245.77W 158.3 FT	THR 23.1 FT	
06	058.46°	771 x 21 M	RWY surface: Grass	534711.93N 0011320.48W 158.3 FT	THR 25.5 FT	
24	238.46°	771 x 21 M	RWY surface: Grass	534722.91N 0011250.29W 158.3 FT	THR 23.6 FT	
10	103.23°	828 x 18 M	RWY surface: Macadam	534706.33N 0011325.65W 158.3 FT	THR 25.8 FT	
28	283.23°	828 x 18 M	RWY surface: Macadam	534701.80N 0011253.12W 158.3 FT	THR 24.9 FT	
10G	103.25°	622 x 21 M	RWY surface: Grass	534708.52N 0011323.00W 158.3 FT	THR 25.1 FT	
28G	283.26°	622 x 21 M	RWY surface: Grass	534703.91N 0011249.92W 158.3 FT	THR 23.2 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		613 x 60 M				RWY 01 Threshold displaced by 28 M.
		613 x 60 M				RWY 19 Threshold displaced by 28 M.
		791 x 60 M				RWY 06 Threshold displaced by 75 M.
		791 x 60 M				RWY 24 Threshold displaced by 48 M.
		672 x 60 M				RWY 10
		672 x 60 M				RWY 28 (Tarmac) Threshold displaced by 217 M.
		682 x 60 M				RWY 10G
		682 x 60 M				RWY 28G

EGCJ AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
10	612 M	612 M	612 M	612 M	
28	799 M	799 M	799 M	612 M	
06	723 M	723 M	723 M	676 M	
24	696 M	696 M	696 M	703 M	
10G	622 M	622 M	622 M	622 M	
28G	622 M	622 M	622 M	622 M	
01	553 M	553 M	553 M	553 M	
19	553 M	553 M	553 M	525 M	

EGCJ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
10		Green With elev green wingbars	APAPI Right/ 3.5° 22 FT 95 M			Omni-directional White	Red inserted wingbars		
28		Green With elev green wingbars	APAPI Left/3.5° 17 FT 70 M from displaced threshold			Omni-directional White	Red inserted wingbars		

EGCJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGCJ AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF H2: 534719.17N 0011233.24W, 158.2 FT TLOF H3: 534718.78N 0011233.88W, 158.2 FT
2	TLOF and/or FATO elevation	TLOF H2: 23.5 FT TLOF H3: 23.3 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGCJ AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SHERBURN-IN-ELMET ATZ 534837N 0011510W thence anti-clockwise by the arc of a circle radius 2 NM centred on 534703N 0011304W to 534823N 0011032W - 534837N 0011510W	Upper limit: 2000 FT AGL Lower limit: SFC	G	SHERBURN RADIO English			

EGCJ AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	SHERBURN RADIO	122.610 A/G frequency.			0900-SS (0800-1830).	ATZ hours coincident with A/G hours.

EGCJ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB 0.79°E (2027)	SBL	323.000 kHz	0900-SS (0800-1830).	534723.08N 0011230.60W		On AD. Range 10 NM. For navigation only.

EGCJ AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome is not available for use by public transport passenger flights required to use a licensed aerodrome.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Power Lines and Pylons, 58 ft amsl, 258 m south of RWY 01 THR and following southern AD perimeter east to west.
b) Woods, 275 m south of RWY 01 following southern AD perimeter east to west.
c) Mast, 134 ft amsl (111 ft agl), 830 m to the east and south of RWY 28 THR and left of the extended RWY approach centre-line.

5 HELICOPTER OPERATIONS

a) Helicopters should use grass Runways 10/28, 06/24, 01/19 and touch down at midpoint to minimise rotor vortex at runway thresholds.
b) When Runway 10/28 (Grass) or 10/28 (Tarmac) are in use, helicopters are requested to fly the circuit so as to touch down/lift across grass Runway 01/19 at the runway midpoint.
c) A designated hover practice area is located to the east of Runway 19 threshold and forms part of the Main Grass Parking Area.
d) Helicopters must avoid overflight of fixed-wing parking areas.
e) Helicopters must use the dedicated helicopter pads for refuelling.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGCJ AD 2.21 NOISE ABATEMENT PROCEDURES

a) Aircraft must not overfly the villages of Sherburn-in-Elmet, South Milford, Lumby, Monk Fryston or Hambleton.

EGCJ AD 2.22 FLIGHT PROCEDURES

1 GENERAL

a) Within the circuit, pilots should plan to avoid flight over villages and remain well clear of them at all times when flying within the ATZ.
b) On arrival/departure, avoid Leeds East ATZ to the North.
c) Non-radio aircraft are not accepted.
d) Runway in use and QFE will be passed by A/G (QNH and wind check available on request). Aerodrome elevation 26 FT.
e) Flexwing Microlights welcome (must be radio equipped).
f) Backtracking on active runways is not permitted.

2 ARRIVALS

a) Fixed wing aircraft to join overhead at 2000 FT QFE and descend in accordance with the 'Standard Overhead Join' procedure.
b) Initial contact with A/G 122.610 MHz within range 5 NM of the ATZ.
c) Helicopters route inbound at 700 FT QFE. Should it be necessary to join crossing the active runway, do so at 90° across the runway at midpoint not below 200 FT AAL.

3 CIRCUITS

a) Fixed wing: circuits are to be flown at 1000 FT QFE.
b) Helicopters: circuits are to be flown at 700 FT QFE.

4 CIRCUIT PATTERNS

a) Runway 24 - left hand: Fixed wing and Helicopters.
b) Runway 06 - right hand: Fixed wing and Helicopters.
c) Runway 28 (Tarmac and Grass) - left hand: Fixed wing (right hand Helicopters).
d) Runway 10 (Tarmac and Grass) - right hand: Fixed wing (left hand Helicopters).
e) Runway 19 - left hand: Fixed wing (right hand Helicopters).
f) Runway 01 - right hand: Fixed wing (left hand Helicopters).

5 DEPARTURE

a) Fixed wing to depart at 1000 FT QFE whilst within the ATZ remaining clear of the 'dead side' at all times:

   i. on runway heading;
   ii. extended crosswind left or right as required;
   iii. completion of the ‘downwind’ leg left or right as required.

b) Helicopters to depart not above 700 FT QFE; should it be necessary to cross the active runway, fly across at 90° the midpoint.
c) Traffic departing to the west or northwest may cross the path of instrument approach procedures to Leeds East Airport. Details of IFR arrivals at Leeds East available from Sherburn Radio on 122.610 MHz.

Note: *Aircraft may at times depart from the overhead at 2000 FT for training purposes.*

6 INSTRUMENT APPROACH PROCEDURES

a) IAP at Sherburn-in-Elmet are established in Class G airspace and no approach control service is provided.
b) Runways at Sherburn do not conform to ‘Instrument Runway’ standards.
c) Use of the IAP is by prior permission from Sherburn Operations on 01977-682674. Approach time slot to be agreed with Sherburn Operations to avoid conflict with other IFR arrivals.
d) Sherburn Operations will provide a briefing document relating to IAP. Pilots are to abide by the procedures in the briefing document when executing the IAP.
e) Initial airborne requests for an IAP slot not accepted, unless in an emergency.

EGCJ AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGCJ AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCJ-2-1
INSTRUMENT APPROACH CHART RNP RWY 10 (CAT A,B) - ICAO
AD 2.EGCJ-8-1
INSTRUMENT APPROACH CHART RNP RWY 28 (CAT A,B) - ICAO
AD 2.EGCJ-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 10
AD 2.EGCJ-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 28
AD 2.EGCJ-8-4

EGCJ AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 534703N 0011304W

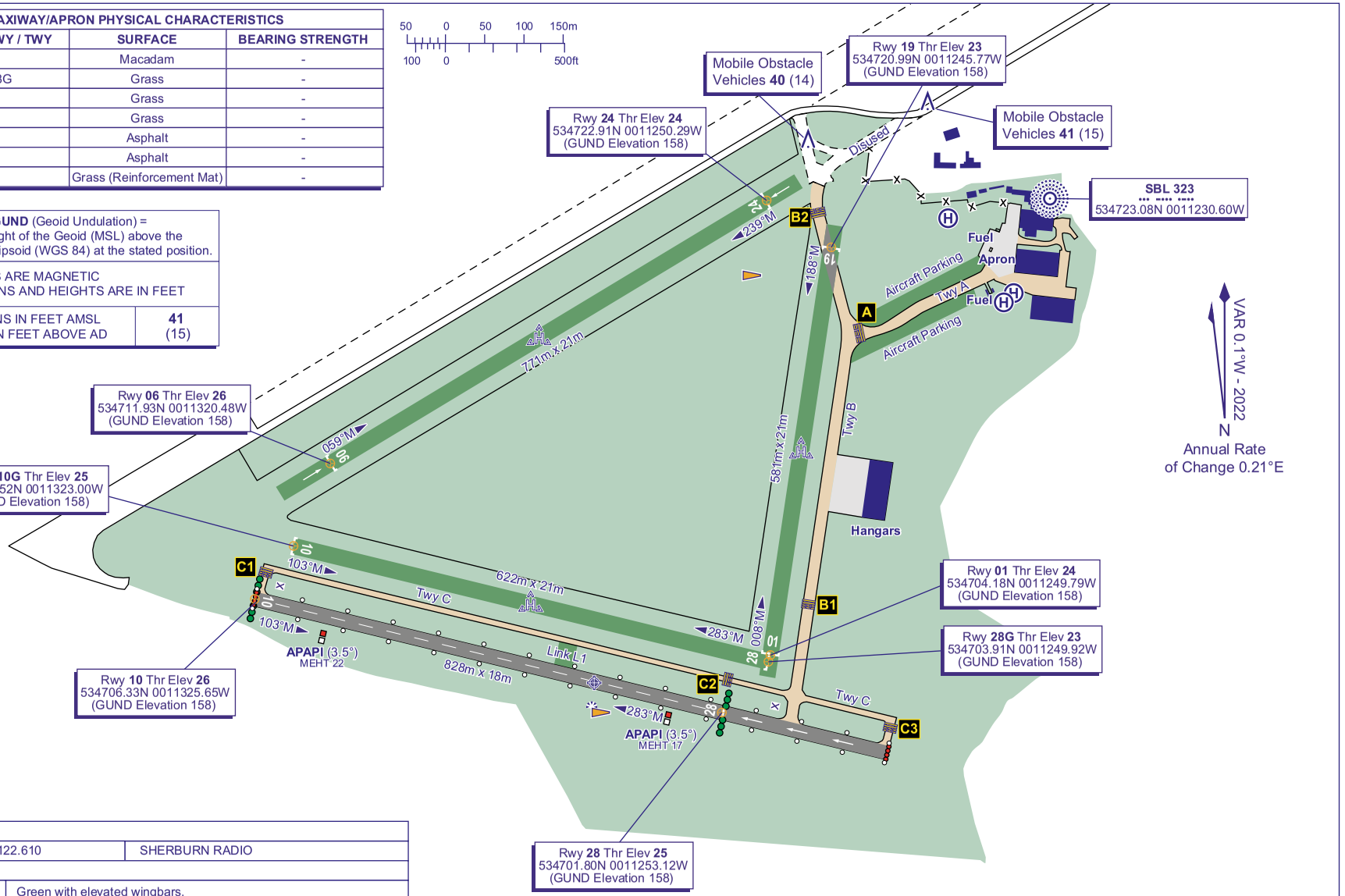
AD ELEV 26FT

SHERBURN-IN-ELMET
EGCJ

AERO INFO DATE 28 JUN 23

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 10/28	Macadam	-
RWY 10G/28G	Grass	-
RWY 01/19	Grass	-
RWY 06/24	Grass	-
Main Apron	Asphalt	-
TWY A/B/C	Asphalt	-
TWY Link L1	Grass (Reinforcement Mat)	-

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL / HEIGHTS IN FEET ABOVE AD: **41** (15)



COM		
A/G	122.610	SHERBURN RADIO
LIGHTING		
THR 10/28	Green with elevated wingbars.	
RWY 10/28	Omni-d white edge. End lights Red with elevated wingbars.	

CHANGE (9/23): RWY DIMENSIONS. DISPLACED THRESHOLDS. EDITORIAL.

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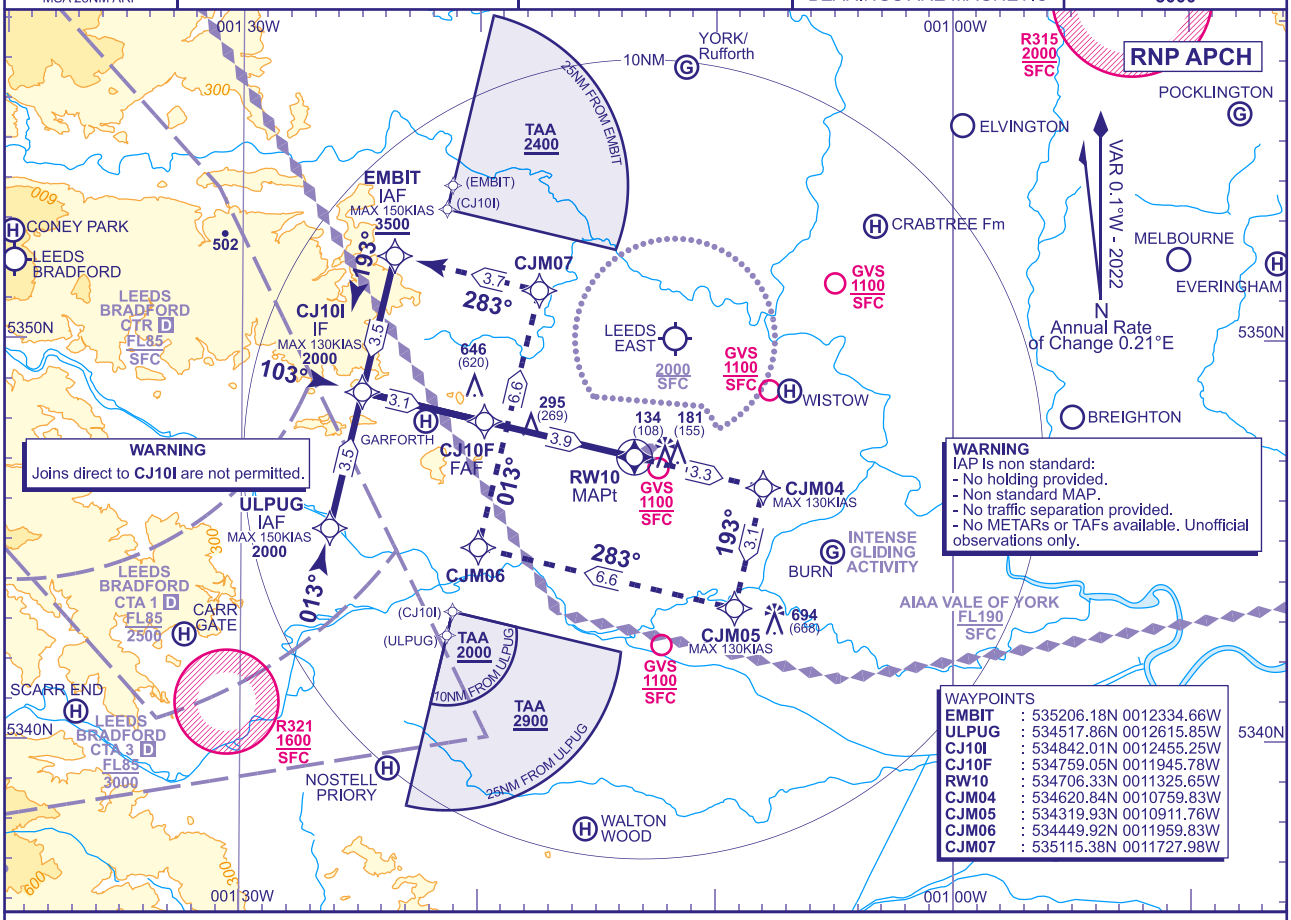
INSTRUMENT APPROACH CHART - ICAO

SHERBURN-IN-ELMET
RNP
RWY 10
(ACFT CAT A,B)

MSA 25NM ARP	A/G 122.610	SHERBURN RADIO	AD ELEVATION 26
			THR ELEVATION 26
			OBSTACLE ELEVATION 694 AMSL (668) (ABOVE THR)
			BEARINGS ARE MAGNETIC

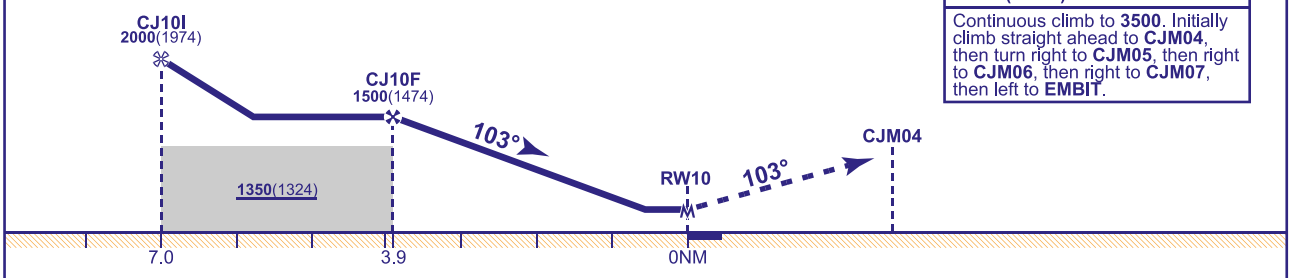
TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW10	3	2
ALT(HGT)	**1180**(1154)	**810**(784)

TCH 40



MAPt (LNAV) RW10

Continuous climb to **3500**. Initially climb straight ahead to **CJM04**, then turn right to **CJM05**, then right to **CJM06**, then right to **CJM07**, then left to **EMBIT**.

Aircraft Category		A	B
OCA (OCH)	LNAV	**550**(524)	**550**(524)
VM(C)OCA (OCH AAL)	Total Area	**630**(604)	**630**(604)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE 1 **CAUTION:** Procedure lies close to Leeds CTA/CTR. Aircraft not in receipt of a zone transit clearance must remain clear.
2 **CAUTION:** Proximity of Leeds East Airport, 3NM to the North.

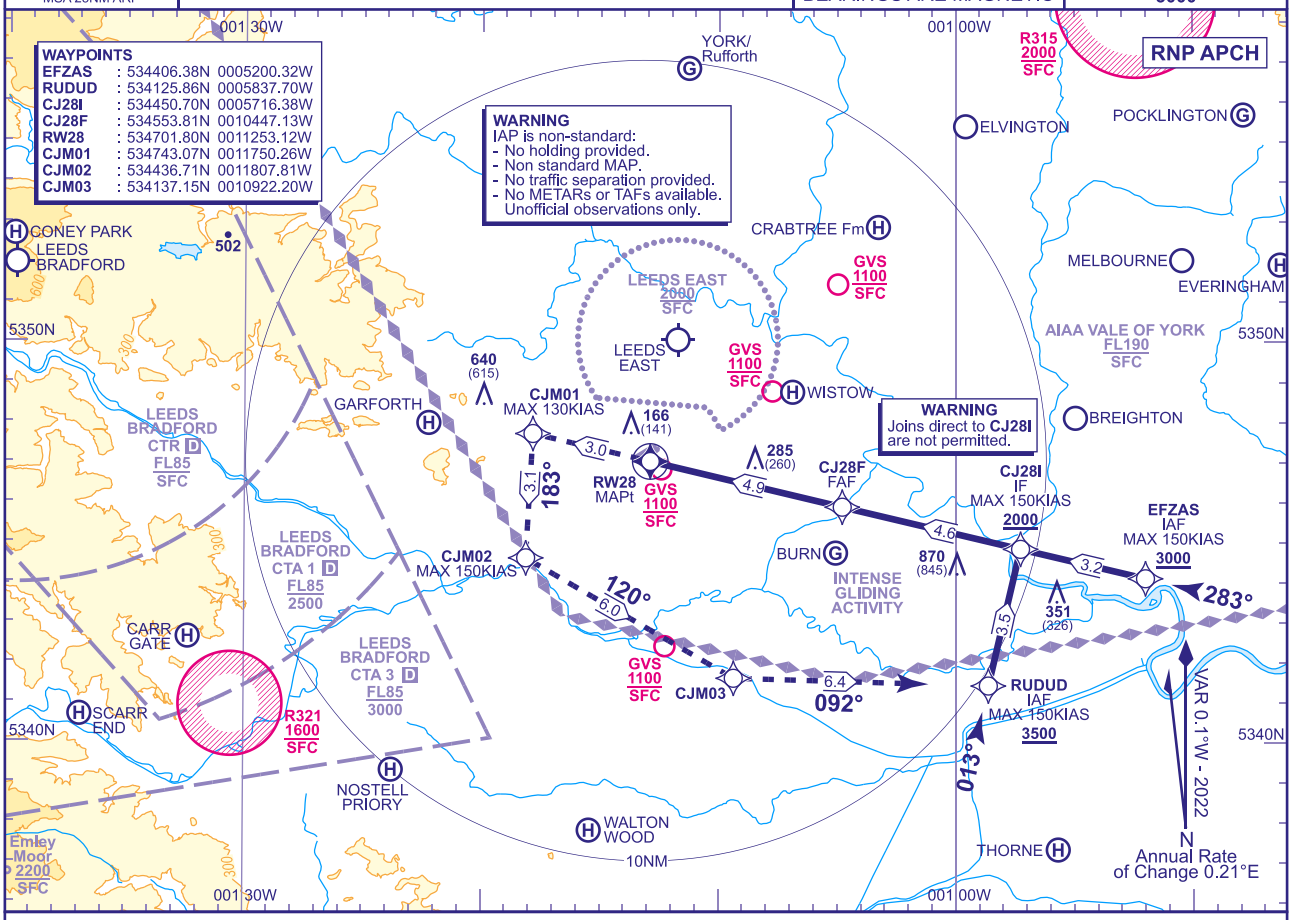
CHANGE (13/23): GVS RICCALL REMOVED.

AERO INFO DATE 03 OCT 23

INSTRUMENT APPROACH CHART - ICAO

SHERBURN-IN-ELMET
RNP
RWY 28
(ACFT CAT A,B)

MSA 25NM ARP: 29 22 35 19	A/G 122.610	SHERBURN RADIO	AD ELEVATION 26
			THR ELEVATION 25
			OBSTACLE ELEVATION 870 AMSL (845)(ABOVE THR)
			BEARINGS ARE MAGNETIC
			TRANSITION ALTITUDE 3000



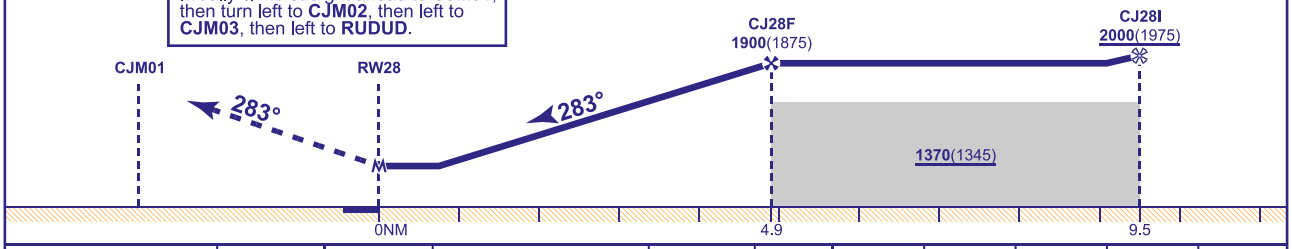
RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

NM to RW28	4	3	2
ALT(HGT)	**1550**(1525)	**1180**(1155)	**810**(785)

TCH 40

MAPt (LNAV) RW28

Continuous climb to **3500**.
Initially climb straight ahead to **CJM01**, then turn left to **CJM02**, then left to **CJM03**, then left to **RUDUD**.



Aircraft Category		A	B
OCA (OCH)	LNAV	**540**(515)	**540**(515)
VM(C)OCA (OCH AAL)	Total Area	**630**(604)	**630**(604)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE **1 Caution:** Procedure lies close to Leeds CTA/CTR. Aircraft not in receipt of a zone transit clearance must remain clear.
2 Caution: Proximity of Leeds East Airport, 3NM to the north.

CHANGE (13/23): GVS RICCALL REMOVED.

AERO INFO DATE 03 OCT 23

Instrument Approach Procedure Coding Tables

SHERBURN-IN-ELMET RNP RWY 10 - Instrument Approach Procedure via EMBIT

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R10L	001	IF	EMBIT	N	-	-	3500	-150	535206.18N 0012334.66W	IAF
R10L	002	TF	CJ10I	N	193° (193.1°)	LEFT	2000	-130	534842.01N 0012455.25W	IF / 7.0NM
R10L	003	TF	CJ10F	N	103° (103.2°)	-	1500	-	534759.05N 0011945.78W	FAF / 3.9NM
R10L	004	TF	RW10	Y	103° (103.1°)	-	-	-	534706.33N 0011325.65W	MAPt
R10L	005	TF	CJM04	N	103° (103.2°)	RIGHT	-	-130	534620.84N 0010759.83W	-
R10L	006	TF	CJM05	N	193° (193.3°)	RIGHT	-	-130	534319.93N 0010911.76W	-
R10L	007	TF	CJM06	N	283° (283.3°)	RIGHT	-	-	534449.92N 0011959.83W	-
R10L	008	TF	CJM07	N	013° (013.1°)	LEFT	-	-	535115.38N 0011727.98W	-
R10L	009	TF	EMBIT	N	283° (283.2°)	-	3500	-150	535206.18N 0012334.66W	-

SHERBURN-IN-ELMET RNP RWY 10 - Instrument Approach Procedure via ULPUG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R10R	001	IF	ULPUG	N	-	-	2000	-150	534517.86N 0012615.85W	IAF
R10R	002	TF	CJ10I	N	013° (013.2°)	RIGHT	2000	-130	534842.01N 0012455.25W	IF / 7.0NM
R10R	003	TF	CJ10F	N	103° (103.2°)	-	1500	-	534759.05N 0011945.78W	FAF / 3.9NM
R10R	004	TF	RW10	Y	103° (103.1°)	-	-	-	534706.33N 0011325.65W	MAPt
R10R	005	TF	CJM04	N	103° (103.2°)	RIGHT	-	-130	534620.84N 0010759.83W	-
R10R	006	TF	CJM05	N	193° (193.3°)	RIGHT	-	-130	534319.93N 0010911.76W	-
R10R	007	TF	CJM06	N	283° (283.3°)	RIGHT	-	-	534449.92N 0011959.83W	-
R10R	008	TF	CJM07	N	013° (013.1°)	LEFT	-	-	535115.38N 0011727.98W	-
R10R	009	TF	EMBIT	N	283° (283.2°)	-	3500	-150	535206.18N 0012334.66W	-

CHANGE (6/23): NEW CHART.
AERO INFO DATE 30 MAR 23

Instrument Approach Procedure Coding Tables

SHERBURN-IN-ELMET RNP RWY 28 - Instrument Approach Procedure via RUDUD

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R28L	001	IF	RUDUD	N	-	-	3500	-150	534125.86N 0005837.70W	IAF
R28L	002	TF	CJ28I	N	013° (013.2°)	LEFT	2000	-150	534450.70N 0005716.38W	IF / 9.5NM
R28L	003	TF	CJ28F	N	283° (283.3°)	-	1900	-	534553.81N 0010447.13W	FAF / 4.9NM
R28L	004	TF	RW28	Y	283° (283.3°)	-	-	-	534701.80N 0011253.12W	MAPt
R28L	005	TF	CJM01	N	283° (283.2°)	LEFT	-	-130	534743.07N 0011750.26W	-
R28L	006	TF	CJM02	N	183° (183.2°)	LEFT	-	-150	534436.71N 0011807.81W	-
R28L	007	TF	CJM03	N	120° (119.9°)	LEFT	-	-	534137.15N 0010922.20W	-
R28L	008	TF	RUDUD	N	092° (091.6°)	-	3500	-150	534125.86N 0005837.70W	-

SHERBURN-IN-ELMET RNP RWY 28 - Instrument Approach Procedure via EFZAS

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R28C	001	IF	EFZAS	N	-	-	3000	-150	534406.38N 0005200.32W	IAF / 12.7NM
R28C	002	TF	CJ28I	N	283° (283.3°)	-	2000	-150	534450.70N 0005716.38W	IF / 9.5NM
R28C	003	TF	CJ28F	N	283° (283.3°)	-	1900	-	534553.81N 0010447.13W	FAF / 4.9NM
R28C	004	TF	RW28	Y	283° (283.3°)	-	-	-	534701.80N 0011253.12W	MAPt
R28C	005	TF	CJM01	N	283° (283.2°)	LEFT	-	-130	534743.07N 0011750.26W	-
R28C	006	TF	CJM02	N	183° (183.2°)	LEFT	-	-150	534436.71N 0011807.81W	-
R28C	007	TF	CJM03	N	120° (119.9°)	LEFT	-	-	534137.15N 0010922.20W	-
R28C	008	TF	RUDUD	N	092° (091.6°)	-	3500	-150	534125.86N 0005837.70W	-

CHANGE (6/23): NEW CHART.
AERO INFO DATE 30 MAR 23

EGBS — SHOBDON

EGBS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBS — SHOBDON

EGBS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 521430N Long: 0025252W
2	Direction and distance from city	6 NM W of Leominster.
3	Elevation / Reference temperature / Mean Low Temperature	317 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	170 FT
5	Magnetic Variation / Annual Change	0.35°E (2027) / 0.18°E
6	AD Administration Address Telephone Telefax E-mail address Web address	HEREFORDSHIRE AERO CLUB LTD. Shobdon Aerodrome, Leominster, Hereford, HR6 9NR. 01568-708369 01568-708508 generalenquiries@shobdonairfield.co.uk www.shobdonairfield.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGBS AD 2.3 OPERATIONAL HOURS

1	AD Administration	0915-1700 (0815-1600).
2	Customs and immigration	By arrangement. Minimum notice periods apply.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18.
8	Fuelling	As AD hours; Jet A-1 fuel available outside AD hours by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Use of the aerodrome is strictly PPR by telephone. Aerodrome may close during adverse weather conditions including snow.

EGBS AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 F35 (FSII additive not included), AVGAS 100LL, AVGAS UL-91 AD80, AD100, ST100, 15W/50.
3	Fuelling facilities/capacity	AVGAS 100LL and AVGAS UL91 fuel installation is self service. AVTUR Jet A1 F35 mobile bowser available. Jet fuel requirements by arrangement with Shobdon Ops before uplift.
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGBS AD 2.5 PASSENGER FACILITIES

1	Hotels	Bed and Breakfasts in vicinity of the aerodrome.
2	Restaurants	On aerodrome
3	Transportation	Car Hire, Taxis. Nearest Railway Station 8 miles.
4	Medical facilities	Limited - first aiders.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	Accommodation and transportation contact information available through Shobdon Ops.

EGBS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	In the event of an incident, light aircraft can be removed using aerodrome resources.
4	Remarks	

EGBS AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGBS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGBS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway light(s): Automatic runway lighting control system is for use by emergency services only. This facility is not available to other aircraft and must not be utilised under any circumstances.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Illuminated windsleeve: 521435.03N 0025255.77W

EGBS AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBS2775) 26/APPROACH 08/ TAKE-OFF	MOBILE OBST	521433.19N 0025224.51W	316 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBS2624)	TREE	521617.29N 0025420.83W	1150 FT		No	

EGBS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. English.
7	Charts and other information available for briefing or consultation	Met Office Aviation Briefing Service Metforms F214 and F215.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	SHOBDON
10	Additional information (limitation of service, etc.)	

EGBS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
08	082.71°	836 x 18 M	RWY surface: Macadam	521428.27N 0025314.31W 170.0 FT	THR 317.0 FT	
26	262.72°	836 x 18 M	RWY surface: Macadam	521431.70N 0025230.59W 170.0 FT	THR 301.3 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 08
						RWY 26

EGBS AD 2.13 DECLARED DISTANCES

Runway designator	**TORA**	**TODA**	**ASDA**	**LDA**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
08	799 M	799 M	799 M	836 M	
26	799 M	799 M	799 M	836 M	

EGBS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
08		Green Light intensity low				Light intensity low	Red Light intensity low		
26		Green Light intensity low	APAPI Left/3.5° 27 FT			Light intensity low	Red Light intensity low		

EGBS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 521436.97N 0025251.70W Flashing White.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 521434.66N 0025308.80W, 521429.64N 0025237.19W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGBS AD 2.16 HELICOPTER LANDING AREA

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EGBS AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SHOBDON ATZ A circle, 2 NM radius, centred at 521430N 0025252W on longest notified runway (08/ 26)	Upper limit: 2000 FT AGL Lower limit: SFC	G	SHOBDON INFORMATION English			

EGBS AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	SHOBDON INFORMATION	118.155 DOC 10 NM/3000 FT.			0915-1700 (0815-1600).	ATZ coincident with AFIS hours. AFIS may downgrade to Air Ground Communication Service at short notice.
OTHER	SHOBDON RADIO	118.155 A/G Frequency.			Outside of published AD opening hours or Temporarily during opening hours.	

EGBS AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGBS AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Non-radio aircraft only accepted by prior arrangement.
b) Runway 08 is not licensed for night use.
c) Each aircraft commander is responsible for the safety of their passengers and other crew members. To ensure the safety of passengers and crew members, the aircraft commander or other competent crew member is to supervise and escort passengers whilst airside.
d) All pilots and personnel, except for passengers and other persons that are being escorted, shall wear high visibility clothing whilst airside.

2 GROUND MOVEMENT

a) Pilots should exercise caution taxiing to and from the Fuel Bay. Aircraft taxiing to the Fuel Bay cross a Bridleway which is used by vehicular traffic, not under the control of the aerodrome operator.
b) On days when parachuting onto the airfield is notified by NOTAM, pilots must call for engine start.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Visiting pilots are warned of intensive gliding on the north side of the aerodrome. Aircraft joining overhead should not descend below 1500 FT QFE dead side due gliding. Descend to circuit height when south of runway centre-line.
b) Pilots should use the access taxiway to Runway 08 with caution. Distance between taxiway centre-line and fence is 10 M.
c) Departure from the marked movement area can be hazardous.
d) During periods of heavy rain runway is liable to have patches of standing water.
e) Pilots landing at night should land as near as possible to the centre of the runway as the surface on the two outer sections (width 36 M) is rough in places. Runway edge lights are not located along the declared width of the runway.
f) A boundary fence on the western edge of the paved taxiway leading to Taxi-Holding Point Bravo, infringes the taxiway strip by 5 M. The fence is marked with high-visibility/reflective markings
g) Windshear may occur when the following conditions apply: Mountain wave accompanied by wind with a northern component.
h) Parachuting takes place onto the airfield on days notified by NOTAM. The NOTAM will specify the dimensions and heights of the drop-zone. Pilots should contact Shobdon Information or Radio on 118.155 for information about scheduled parachuting. Information also available by calling 01568-708369.
i) Periods, usually of up to 15 minutes duration, when parachuting is in progress will be broadcast by Shobdon Information or Radio. During such periods the airfield is closed to all other traffic.
j) Pilots should exercise caution when entering or vacating the asphalt runway via holding points A, B1 or C, as this requires crossing the unlicensed grass runway or its approach/climb-out.

5 HELICOPTER OPERATIONS

a) Holding point 'X' established north of Taxiway A dedicated for the use of helicopters outbound from Tiger Helicopters Limited.
b) Helicopter circuits operate parallel to and inside fixed wing circuits up to a maximum of 700 FT QFE.
c) Arrivals will normally approach to join downwind or base leg on the live side at 700 FT to remain below the fixed wing circuit at 1000 FT.
d) Arrivals from the north will normally approach to join base leg on the dead side or overhead in accordance with the noise abatement join procedure detailed in Warnings, paragraph 4(a). CAUTION – if Gliding Ops taking place, the circuit for which is on the north/dead side, helicopters joining base leg should give the glider circuit a wide berth.
e) Helicopters are required to comply with noise abatement procedures as detailed in AD 2.21.
f) Helicopters requiring AVGAS are required to alight on the grass as directed by ATS, with rotors clear of the roadway.
g) After departure or line up clearance issued, helicopters will cross the grass taxiway onto the grass runway or main runway to depart or report ready.
h) Helicopters taxiing are asked to operate their aircraft so as to minimise the effect of their downdraft on nearby aircraft parked on the grass.
i) Rotors running refuelling (Jet A1 only) available for approved helicopter types subject to staff availability.

6 USE OF RUNWAYS

a) Shobdon has three parallel runways. They are not available for simultaneous landings or departures.
b) The Glider Strip (North Grass runway) and Microlight Strip (South Grass runway) are unlicensed.

7 TRAINING

Not applicable

EGBS AD 2.21 NOISE ABATEMENT PROCEDURES

a) Following take-off on Runway 26, the heading is maintained until Rowe Ditch (a line of hedges running north/south approximately 0.5 nm west of Runway 08 threshold); when a left turn through 90° is made and the southbound crosswind leg flown just to the west of Rowe Ditch. After climbing to 1000 ft QFE crosswind, the heading should be maintained until passing Pembridge on the left, after which a downwind turn can be commenced.
b) Operations for Runway 08 are the exact reciprocal of Runway 26 with the base leg flown with the Rowe Ditch line feature kept to the right of track.

EGBS AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit directions:

   i. Powered aircraft circuit: Runway 26 - LH; Runway 08 – RH (south of airfield);
   ii. Gliding circuit (including glider tug): opposite direction to powered aircraft (north of airfield).

b) Circuit heights:

   i. Powered fixed-wing circuits at 1000 FT QFE to the south of the villages of Pembridge and Eardisland;
   ii. Microlight circuits at 500 FT QFE;
   iii. Helicopter circuits at 700 FT QFE inside the normal circuit pattern;
   iv. Gliding circuit (including glider tug) at variable heights as necessitated.

c) Radio failure procedure for a powered aircraft in VMC is for the circuit to be joined overhead not below 2000 FT QFE and to let down on the dead side, joining over the upwind end of the active runway, observing any light signals displayed.
d) Radio failure procedure for a glider in VMC is to join the normal glider circuit, keeping a good look-out for other traffic and land when safe on an available runway.

EGBS AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBS AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBS-2-1

EGBS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

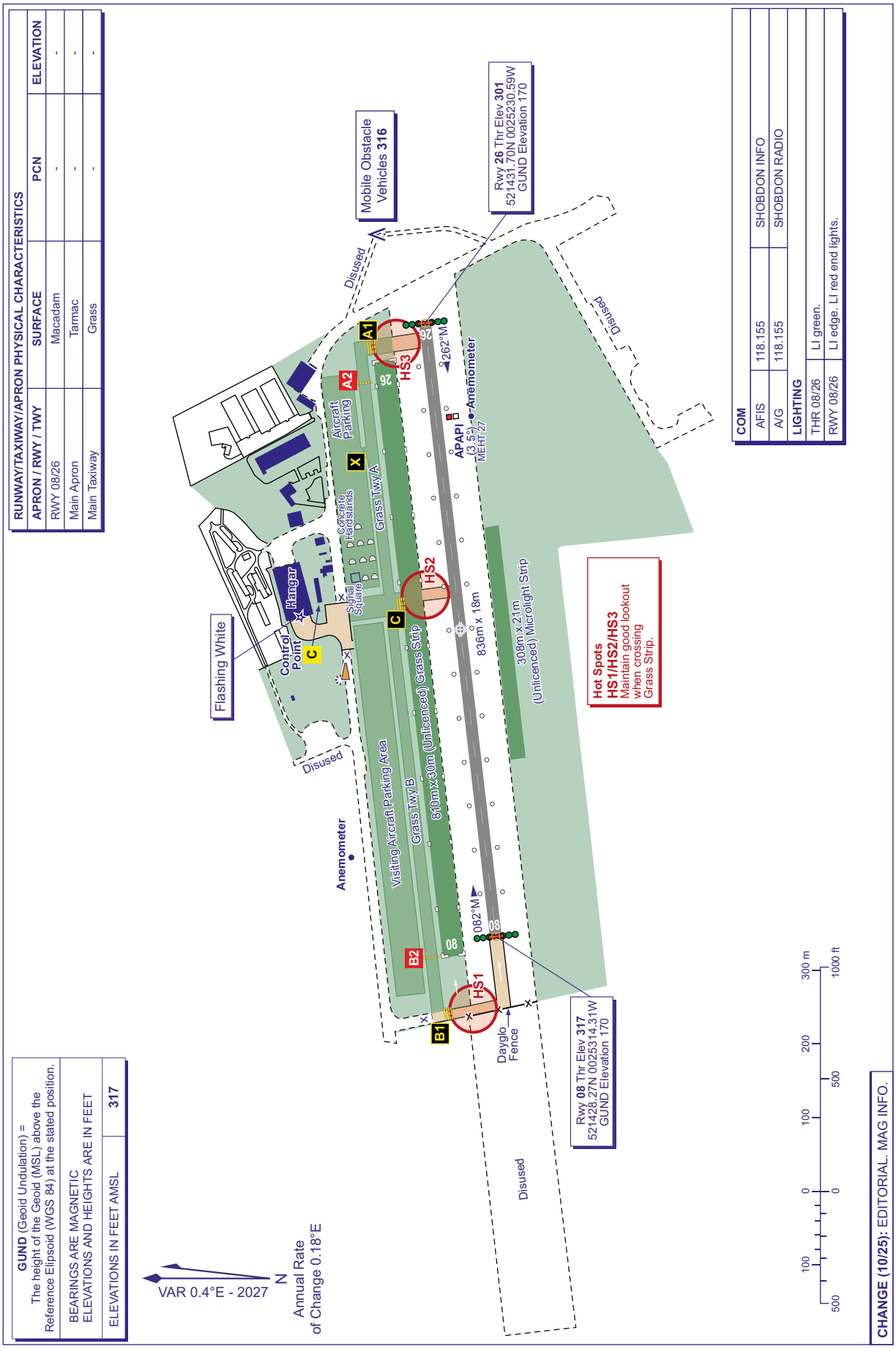
Not applicable

SHOBDON EGBS

AERODROME CHART - ICAO

ARP 521430N 0025252W

AD ELEV 317FT



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EGKA — SHOREHAM

EGKA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGKA — SHOREHAM

EGKA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 505008N Long: 0001750W Mid-point of Runway 02/20.
2	Direction and distance from city	1 NM W of Shoreham-by-Sea.
3	Elevation / Reference temperature / Mean Low Temperature	7 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	148 FT
5	Magnetic Variation / Annual Change	0.53°E (2022) / 0.19°E
6	AD Administration Address Telephone E-mail address Web address	BRIGHTON CITY AIRPORT LTD. Shoreham Airport, Shoreham-by-Sea, West Sussex, BN43 5FF. 01273-467377 (ATS) reception@flybrighton.com airtraffic@flybrighton.com www.flybrighton.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGKA AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0800-2000 (0700-1900); Sat 0900-2000 (0800-1900); Sun 0900-1900 (0800-1800).
2	Customs and immigration	Available on request. Complete and submit GAR forms (available on web site) prior to departure. Do not send to ATC. Phone, Fax and e-mail details for submitting GAR forms available on web site. Immigration, 3 hours notice required. Special Branch 12 hours prior notice required.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	Normally available 30 minutes after opening until 30 minutes prior to close.
9	Handling	Available by arrangement.
10	Security	At night and on request.
11	De-icing	As AD hours.
12	Remarks	All visiting aircraft PPR. IFR training (visitors and based) PPR. Micro-lights and all gliders PPR. Visiting student pilots on qualifying cross-country flights strictly PPR. Flights (visitors and based) during notified periods of A/G strictly PPR. Movements outside notified operational hours are prohibited except by pre-arranged extension.

EGKA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVTUR JET FSII F34, AVGAS 100LL 100, 80, W80, W100, 15/50.
3	Fuelling facilities/capacity	AVTUR JET A1 50,000 LT, AVTUR JET FSII F34 18,000 LT, AVGAS 50,000 LT.
4	De-icing facilities	Through maintenance organisations.
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	By local maintenance organisations on the aerodrome.
7	Remarks	Oxygen and related servicing: Through maintenance organisation. To arrange refuelling at specific times, contact 01273-467395. Handling: Contact handling@flybrighton.com

EGKA AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in vicinity.
2	Restaurants	Restaurant and bar.
3	Transportation	Taxis. Nearest railway station: Shoreham-by-Sea 2 NM.
4	Medical facilities	Limited first aid.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGKA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	MTWA 5080 KG. Contact 01273-467395.
4	Remarks	

EGKA AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGKA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt
2	Taxiway width, surface and strength	Taxiway A: 11 M Surface: Asphalt Taxiway B: 7.5 M Surface: Asphalt Taxiway F: 10 M Surface: Grass Taxiway J: 10 M Surface: Grass Taxiway K: 7.5 M Surface: Asphalt Taxiway L: 10 M Surface: Grass
3	Altimeter checkpoint location and elevation	Apron 6 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGKA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 02/20: Displaced threshold markings and designators on Runway 02/20. Centre marking Runway 02/20. 02G/20G: Threshold markings, designators, and white edge markings. 06/24: Displaced threshold markings and designators on Runways 06 and 24.

		13/31: Displaced threshold markings and designators on Runway 31. Threshold markings and designators on Runway 13. Taxiway marking aid(s): Taxiway holding point markers. Grass taxiways Foxtrot, Juliet and Lima have white edge markings. Hard Taxiways have centre-line marking. Taxiway light(s): Blue edge lights and reflective markers except grass taxiways Foxtrot, Juliet and Lima.
3	Stop bars and runway guard lights (if any)	Runway Guard Lights at A1, B1 and K1.
4	Other runway protection measures	
5	Remarks	3 LGTD WDI: 505017.26N 0001750.56W, 505012.81N 0001722.43W, 504956.16N 0001751.70W. Runway 02/20 and associated taxiway widths meet minimum requirements. Pilots should exercise caution when manoeuvring on hard surfaces.

EGKA AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKA1049) 20/APPROACH	PYLON	505217.70N 0001621.79W	610 FT		No	
(EGKA3061) 20/APPROACH 02/ TAKE-OFF	TRIG PILLAR	505127.45N 0001648.26W	346 FT		No	
(EGKA3036) 20/APPROACH	TREE	505118.32N 0001649.32W	336 FT		No	
(EGKA5847) 20/APPROACH 02/ TAKE-OFF	TREE	505031.70N 0001737.71W	50 FT		No	
(EGKA5808) 20/APPROACH	TREE	505029.30N 0001742.01W	55 FT		No	
(EGKA5817) 20/APPROACH 02/ TAKE-OFF	TREE	505029.15N 0001740.54W	45 FT		No	
(EGKA2321) 20/APPROACH 02/ TAKE-OFF	MOBILE OBST	505028.28N 0001739.55W	28 FT		No	
(EGKA4425) 02/APPROACH	RAILWAY 4 0M	504952.26N 0001755.64W	25 FT		No	
(EGKA4435) 20/TAKE-OFF	RAILWAY 4 0M	504951.47N 0001800.27W	24 FT		No	
(EGKA5650) 02/APPROACH	TREE	504949.68N 0001806.60W	48 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKA4336)	SPOTHEIGHT	505319.41N 0002151.25W	689 FT		No	
(EGKA4320)	MAST	505302.28N 0001536.00W	854 FT		Yes	
(EGKA3044)	PYLON	505216.79N 0001528.14W	560 FT		No	
(EGKA1050)	CHIMNEY	505153.15N 0001739.83W	310 FT		No	
(EGKA1005)	ROOF	505048.04N 0001810.09W	253 FT		No	
(EGKA1001)	TREE	505046.56N 0001929.29W	418 FT		No	
(EGKA1043)	SPIRE	505026.91N 0001708.15W	82 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGKA2425)	NDB	505007.84N 0001743.39W	55 FT		Yes	
KA10/2024	CRANE	504959.41N 0001605.30W	296 FT	292 FT	Yes	Until July 2025.
	CRANE	504957N 0001601W	281 FT	263 FT	Yes	Shoreham Harbour.
KA01/2024	CRANE	504956.79N 0001600.67W	266 FT	263 FT	Yes	Shoreham Harbour. End estimated June 2025.
(EGKA3149)	MAST	504956.26N 0001457.00W	289 FT		Yes	
(KA09/2023)	CRANE	504954N 0001514W	134 FT	121 FT	Yes	
(KA11/2023)	CRANE	504953N 0001509W	153 FT	140 FT	Yes	
(KA12/2023)	CRANE	504952N 0001505W	134 FT	121 FT	Yes	
(EGKA3146)	CHIMNEY	504947.80N 0001356.08W	348 FT		Yes	
	CRANE	504944N 0001644W	109 FT	102 FT	Yes Red	
	CRANE	504838N 0002209W	303 FT	299 FT	Yes	Marine Place, Worthing.

EGKA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing via computer terminal/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	Free wi-fi available in Terminal.
9	ATS units provided with information	SHOREHAM
10	Additional information (limitation of service, etc.)	01273-467372 (ATIS)

EGKA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
02	021.61°	1032 x 18 M	RWY surface: Asphalt PCN 14/F/B/X/U	504957.90N 0001756.61W 147.7 FT	THR 6.7 FT	
20	201.61°	1032 x 18 M	RWY surface: Asphalt PCN 14/F/B/X/U	505020.68N 0001742.36W 147.7 FT	THR 7.2 FT	
02G	021.49°	603 x 23 M	RWY surface: Grass	505002.00N 0001751.15W 147.7 FT	THR 5.6 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
20G	201.49°	603 x 23 M	RWY surface: Grass	505020.14N 0001739.87W 147.9 FT	THR 6.4 FT	
06	063.35°	799 x 25 M	RWY surface: Grass	505000.65N 0001751.61W 147.7 FT	THR 5.5 FT	
24	243.36°	799 x 25 M	RWY surface: Grass	505009.34N 0001724.26W 147.7 FT	THR 6.3 FT	
13	124.82°	536 x 18 M	RWY surface: Grass	505018.02N 0001740.28W 147.7 FT	THR 6.4 FT	
31	304.82°	536 x 18 M	RWY surface: Grass	505010.44N 0001723.07W 147.7 FT	THR 6.2 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 02
						RWY 20
						THR 02G
						THR 20G
						RWY 06
						RWY 24
						RWY 13
						RWY 31

EGKA AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02	1002 M	1031 M	1002 M	838 M	
02	872 M	901 M	872 M		Take off from abeam holding point A1.
20	908 M	971 M	908 M	798 M	
06	599 M	599 M	682 M	682 M	
24	799 M	799 M	799 M	715 M	
02G	602 M	602 M	602 M	602 M	
20G	602 M	602 M	602 M	602 M	
13	410 M	410 M	410 M	410 M	
31	536 M	536 M	536 M	410 M	TORA, TODA, ASDA include 126 M pre-threshold runway.

EGKA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02		Green	PAPI Left/3.5° 16 FT 90 M			Omni-directional Light intensity low	Red	Red	
20		Green	PAPI Right/ 4.5° 21 FT 90 M			Omni-directional Light intensity low	Red		

EGKA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 505009.69N 0001736.44W Flashing Green 'SH'.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 505009.97N 0001736.58W
3	TWY edge and centre line lighting	EDGE: Blue edge lights.
4	Secondary power supply/switch-over time	Standby power. Automatic cut in, 10 seconds. Preset to 30% setting. Taxiway K lighting not available.
5	Remarks	Apron floodlights. Obstacle lighting.

EGKA AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF H2: 505002.20N 0001732.99W TLOF H3: 505001.96N 0001734.49W
2	TLOF and/or FATO elevation	TLOF H2: 6.2 FT TLOF H3: 6.2 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	TLOF H2 Lighting: Entry / Blue Entry to helipad H2 from Taxiway Alpha marked with blue lights. TLOF H3 Lighting: Entry / Blue Entry to helipad H3 from Taxiway Alpha marked with blue lights.
7	RMK	

EGKA AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SHOREHAM ATZ A circle, 2 NM radius, centred at 505008N 0001750W on longest notified runway (02/ 20)	Upper limit: 2000 FT AGL Lower limit: SFC	G	SHOREHAM APPROACH English SHOREHAM RADIO English SHOREHAM TOWER English	6000 FT		

EGKA AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	SHOREHAM APPROACH	123.155 DOC 25 NM/ 10,000 FT.			See AD 2.22 Section 3.	VDF 505009.73N 0001736.59W On AD. ATZ hours coincident with Approach/Tower/A/G hours. Approach Service subject to staff availability.
TWR	SHOREHAM TOWER	123.155			See AD 2.22 Section 3.	VDF 505009.73N 0001736.59W On AD.
		125.405 DOC 10 NM/4000 FT.			As directed by ATC.	
ATIS	SHOREHAM INFORMATION	130.980 DOC 25 NM/ 10,000 FT.			Mon-Sat 1000-2000 (0900-1900).	
OTHER	SHOREHAM RADIO	123.155 A/G frequency DOC 10 NM/3000 FT.			Mon-Fri 0800-1000 (0700-0900); Sat 0900-1000 (0800-0900); Sun 0900-1900 (0800-1800).	VDF 505009.73N 0001736.59W On AD.

EGKA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	SRH	36Y 109.950 MHz	0800-2000 (0700-1900).	505009.98N 0001736.54W	44 FT	On AD. DOC 10 NM/5500 FT. Any ILS indications should be ignored. Normally radiates H24. Zero range indicated at THR of Runway 20. 0.1 NM indicated at THR of Runway 02. DME range errors in excess of 0.03 NM may be experienced between R293 clockwise to R302.
NDB (L) 1.32°E (2027)	SHM	332.000 kHz	0800-2000 (0700-1900).	505007.84N 0001743.39W		On AD. Range 10 NM. Normally radiates H24

EGKA AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of this airport by non-radio aircraft is subject to prior permission.
b) Standard light signals should be followed.
c) High visibility clothing is mandatory airside. Groups of two or more people can be escorted by one wearer of high-visibility clothing (tabard/ jacket) if kept together.
d) Local council by-laws prohibit dogs airside. Dogs are expected to be in a suitable dog carrier or on a lead, under full control of the handler/ owner.
e) While airside, each aircraft commander is responsible for the safety of their passengers and other crew members.
f) The parking rows numbered 70-72 and helipads H4-H6 must only be accessed by persons attending the aircraft for flight purposes. No visitors or sightseers are permitted.
g) When taxiing on the grass, keep to cut grass taxiways. The longer (uncut) grass areas are not inspected and are unfit for manoeuvring of any type.
h) Maintenance is prohibited in all parking areas and main concrete apron without the express permission of aerodrome management.
i) Out of hours movements (fixed wing and rotary) are strictly prohibited without an agreed extension to services.
j) Unless in receipt of authorised handling, all visiting aircraft should report to the Airport RFFS office C.
k) The carriage of dangerous goods into or out of EGKA, as specified by the Air Navigation (Dangerous Goods) Regulations 2002, is strictly prohibited.
l) Use of this aerodrome is subject to the published schedule of fees, charges, terms and conditions. Copies are available from Airport Administration and on the Airport Website www.flybrighton.com.
m) Aircraft engines shall not be run outside of notified operating hours without prior management approval via ATS or Fire Crew. An outside operational hours charge may be applied.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Aircraft approaching Runway 02 are reminded of displaced threshold and should NOT attempt to touch down on the numbers or the threshold line. Pilots to follow PAPIs (MEHT 16 FT) in order to safely overfly trains and railway line embankment on very short final.
b) Caution soft ground either side of Taxiway Kilo. Enter and exit on marked points only.
c) Caution should be used when taxiing on Taxiway A to ensure adequate wing-tip separation from aircraft holding at Hold C1.
d) Caution, model aircraft fly adjacent to Runway 20 approach on the hills at approximately 1 NM from the threshold up to 450 FT AMSL.
e) Caution, kite flying along the coast and on other areas within the ATZ up to 100 FT AGL.
f) Caution, turbulence may be encountered on final approach Runway 24 over the river, especially when the tide is out.
g) Runway 06/24 is not even and level along its length.
h) HT Cables to the North East of aerodrome, running north east-south west 585 FT AMSL at 2 NM. Terrain to the North of the Aerodrome rising to 783 FT AMSL at 4 NM.
i) Caution, reduced wing tip clearance between taxiing and parked aircraft on main concrete apron.
j) Caution, flocks of birds can descend on the aerodrome quickly. Occasionally, pilots may face delays, if birds are difficult to disperse.
k) Grass cutting will take place on the aerodrome daily between March and October.
l) Restrictions to operations will be applied during LVPs. Only the hard runway and Taxiway Alpha will be in use.
m) Wind information passed by ATS is given as Degrees True. Pilots are to allow for current magnetic variation.
n) Pilots are to be aware that the Runway 06 climb-out/Runway 24 approach is over a built-up area. Pilots departing Runway 06 and wishing to make an early turn are to request this from ATC, as helicopters may be operating north side of Runway 06 or inbound from the southeast.
o) Caution, potential for building-induced turbulence on the final approach to Runway 20 and Runway 13 when surface winds are from a south-easterly direction.

5 HELICOPTER OPERATIONS

a) Helicopter circuits from HTA 'W' are frequently active below the fixed-wing 'dead-side' and 'live-side' circuit patterns subject to the runway(s) in use. The profile of the helicopter circuit is described below. The pilot in command of helicopters operating in the helicopter circuit may adopt passive RTF but must maintain a listening watch on the appropriate frequency:

   i. HTA 'W' - Runway 02 in use - Left hand circuit, remain west of 02/20 runway strip. Climb to the north-east to 600 FT QNH. On turning south on the downwind leg climb to 800 FT QNH to be level before crossing the A27. When passing over the football ground descend to 600 FT QNH and continue to the coast before turning left toward the aerodrome and make the approach to HTA ‘W’.
   ii. HTA 'W' - Runway 20 in use - Right hand circuit, remain west of 02/20 runway strip. Climb on a track parallel to the departure lane from the main runway, when crossing the railway line turn right 10 degrees. Continue to the coast and turn north-east for the downwind leg and continue climb to 800 FT QNH to be level by the football training ground. After crossing the A27, descend to 600 FT QNH to be level before turning east and upon reaching the River Adur turn south towards the aerodrome and make the approach to HTA ‘W’.

b) A sloping ground training area is situated adjacent to the northern windsock on the northwestern side of the aerodrome.
c) All helicopter arrivals and departures shall enter/depart the ATZ not above 600 FT QNH unless otherwise authorised and request specific clearance to cross any runway strip.
d) Helicopters should avoid overflying built up areas that are adjacent to the arrival/departure routes and should not fly along the river from the harbour entrance, but shall remain on the coast to the southeastern corner entry route of the aerodrome.
e) Confined helicopter training area (HTA 'Q') is situated NNW of HTA 'W'. Not to be used by solo/student pilots.

6 USE OF RUNWAYS

a) More than one runway may be in use at any one time.
b) Runway 02/20 will always be preferred subject to operational limitations. Aircraft departing Runway 20 should avoid overflying as much of the built up areas to the south and follow the published noise abatement procedures.
c) Circuit heights are 1100 FT AAL for all runways.
d) Variable circuit direction at discretion of ATC.
e) Unless otherwise instructed aircraft joining the circuit will overfly the aerodrome maintaining 2000 FT AAL, until instructed to descend to circuit height on the inactive (dead) side of the runway in use and join the circuit by crossing the upwind end. Pilots should note that there would frequently be helicopters operating both ‘liveside’ and ‘deadside’ in the ATZ up to 800 FT.
f) Aircraft joining direct to the crosswind leg should arrange their flight to track over the upwind end of the runway-in-use, ie in the same position as if approaching it from the ‘deadside’. Unless otherwise instructed, this should be at circuit height.
g) Departing aircraft shall not turn on course below 600 FT QNH unless approved by ATC.
h) All fixed wing aircraft should be aware of helicopters operating live side and dead side beneath the fixed wing circuit patterns.
i) Departing aircraft, and aircraft going around, should be aware of the possibility of aircraft on the crosswind leg at 1100 FT QFE.
j) PAPIs are to be used for Runway 02/20 asphalt only, not for grass 02/20.
k) The Runways 02/20 asphalt and 02/20 grass are operated as a single runway strip. No simultaneous parallel approaches or departures are permitted.
l) Grass runways are unavailable before 1000 (0900) Monday-Friday to facilitate grass cutting, between 01 March-31 October each year.

7 TRAINING

a) Circuit training (fixed-wing & rotary) is not permitted Sundays. It is permitted Mondays 1000-2000 (0900-1900) and Tuesday-Saturday 1000-1800 (0900-1700).
b) Runway 02/20 Grass and 13/31 are not available for touch and go's.
c) Only Runways 02 and 31 may be used for practice engine failure after take-off.
d) Instrument training is strictly PPR.
e) Qualifying cross country flights are strictly PPR.

EGKA AD 2.21 NOISE ABATEMENT PROCEDURES

a) Noise abatement techniques should be practiced at all times, the area to the east and west being particularly sensitive.
b) Aircraft departing Runway 20 should make a 10 degree turn to the right on reaching the railway line. This track should be maintained until reaching the coast before turning left or right on course.
c) Runway 02/20 is the preferred runway for noise abatement purposes.
d) Ground engine runs should not be performed adjacent to buildings, re-fuelling areas or on the concrete apron. These will normally be performed on the B taxiway or C loop. All ground runs are logged by ATS for noise abatement purposes.
e) Prolonged helicopter hovering details should not be completed adjacent to buildings.
f) Prolonged helicopter operations on Runway 24 are to be avoided unless a strong easterly wind prevails.

EGKA AD 2.22 FLIGHT PROCEDURES

1 RADIO COMMUNICATION FAILURE PROCEDURES

a) In the event of an aircraft experiencing a radio failure during daytime, an aircraft should join overhead the aerodrome, fit into the traffic pattern and overfly the runway in use at 500 FT before positioning for landing.

2 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.
b) The RNP IAP's should not be used if an approach service is not available.
c) Rules of the Air regulations, Section 6 apply when using RNP IAP's.
d) Use of the RNP IAP without an approach service may result in investigative action being taken by the ANSP.

3 ATS SERVICES

a) Approach service may not be available every day.
b) Each day is notified on the Airport website at www.flybrighton.com/atc-availability.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGKA AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGKA AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGKA-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGKA-2-2
HELICOPTER ROUTES AND CIRCUIT PATTERNS
AD 2.EGKA-4-1
INSTRUMENT APPROACH CHART RNP RWY 02 (CAT A,B) - ICAO
AD 2.EGKA-8-1
INSTRUMENT APPROACH CHART RNP RWY 20 (CAT A,B) - ICAO
AD 2.EGKA-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 02
AD 2.EGKA-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 20
AD 2.EGKA-8-4

EGKA AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

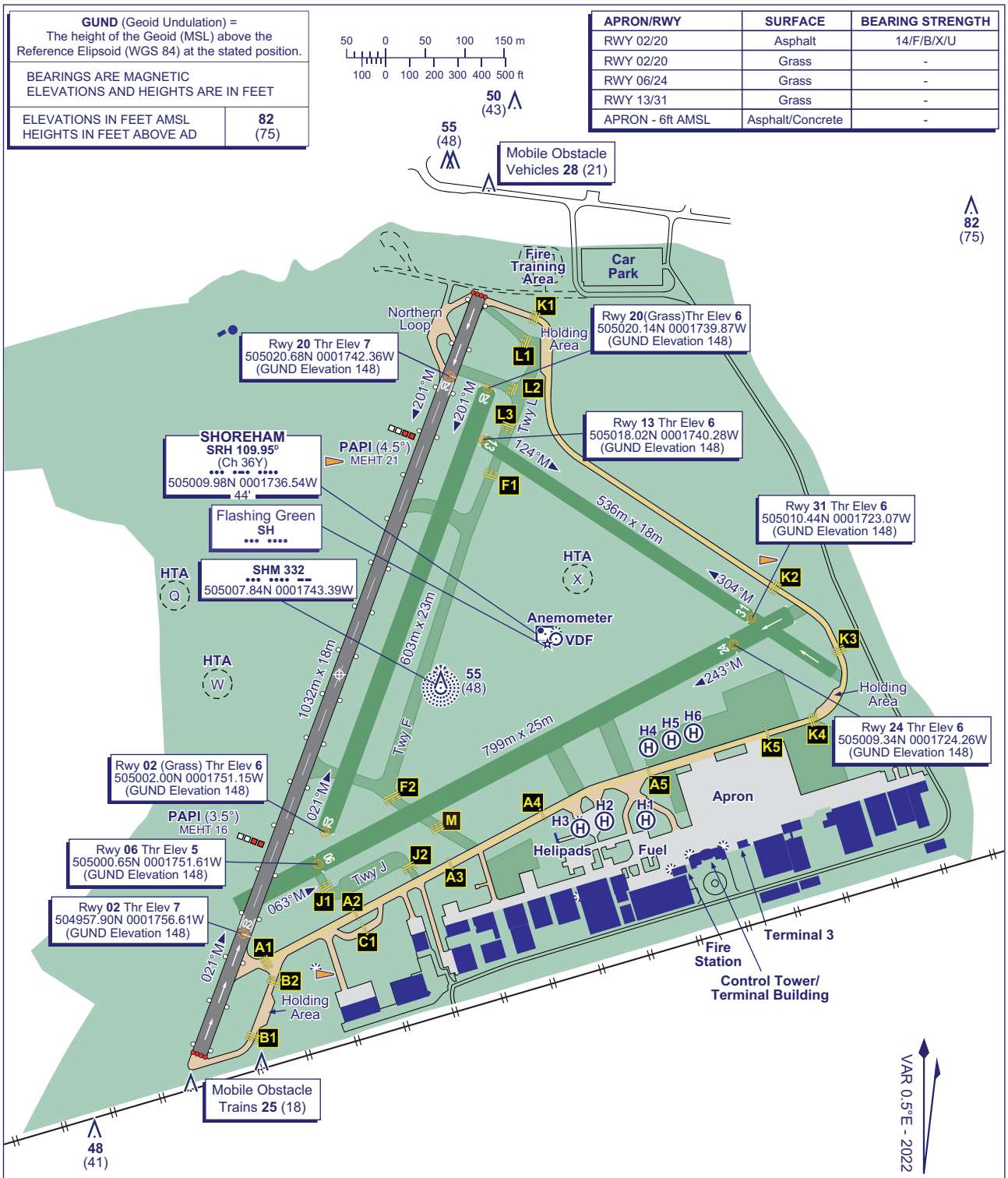
ARP 505008N 0001750W

AD ELEV 7FT

SHOREHAM
EGKA

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	82 (75)

APRON/RWY	SURFACE	BEARING STRENGTH
RWY 02/20	Asphalt	14/F/B/X/U
RWY 02/20	Grass	-
RWY 06/24	Grass	-
RWY 13/31	Grass	-
APRON - 6ft AMSL	Asphalt/Concrete	-



COM		
ATIS	130.980	SHOREHAM INFO
TWR	123.155, 125.405	SHOREHAM TOWER
LIGHTING		
THR 02/20	Green.	
RWY 02/20	LI omni-d. End lights red.	
TWY	Blue edge. RWY guard lights at A1, B1 & K1.	

CHANGE (11/25): EDITORIAL.

AERO INFO DATE 30 JUL 25

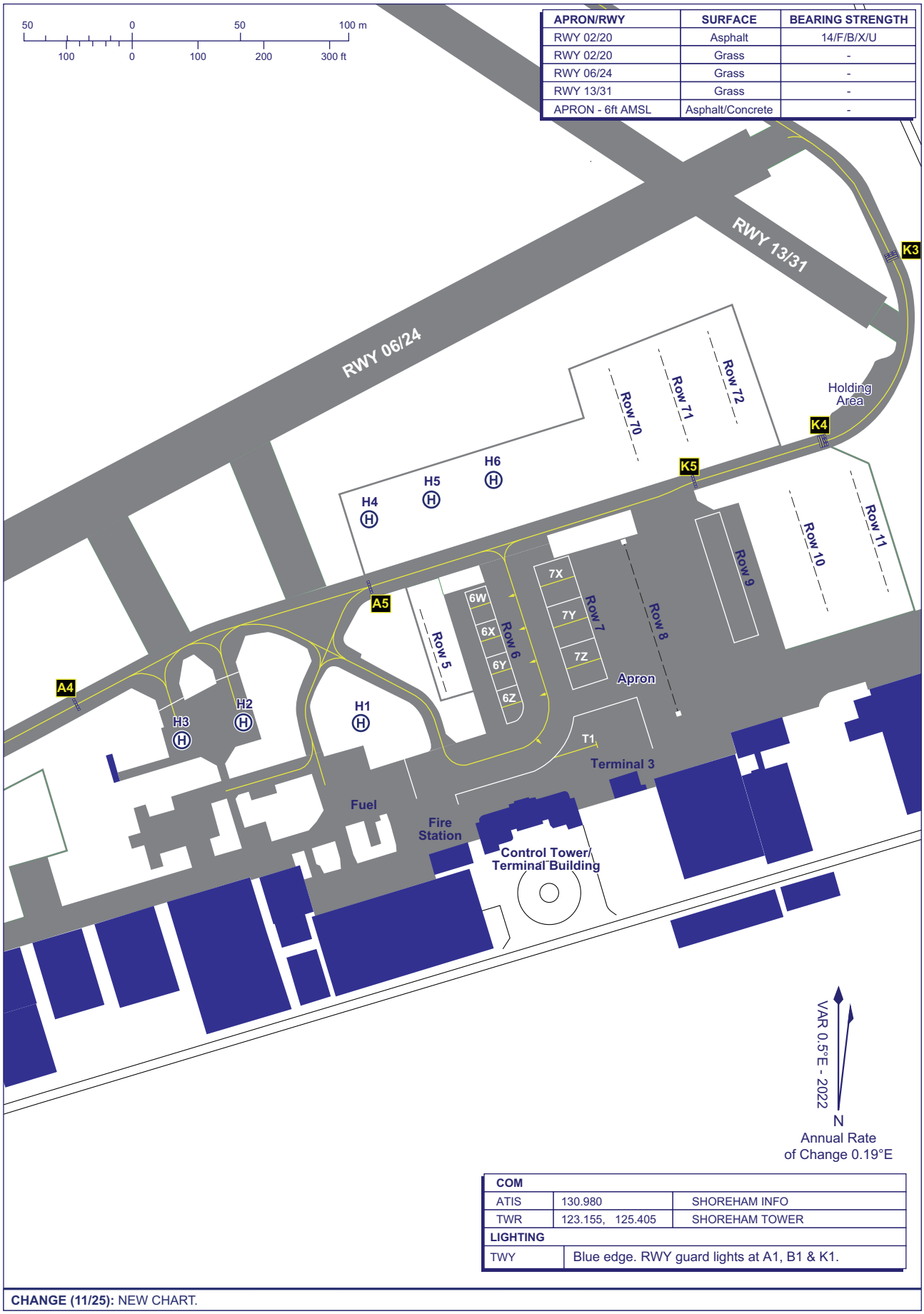
AD 2-EGKA-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 505008N 0001750W

AD ELEV 7FT

SHOREHAM
EGKA



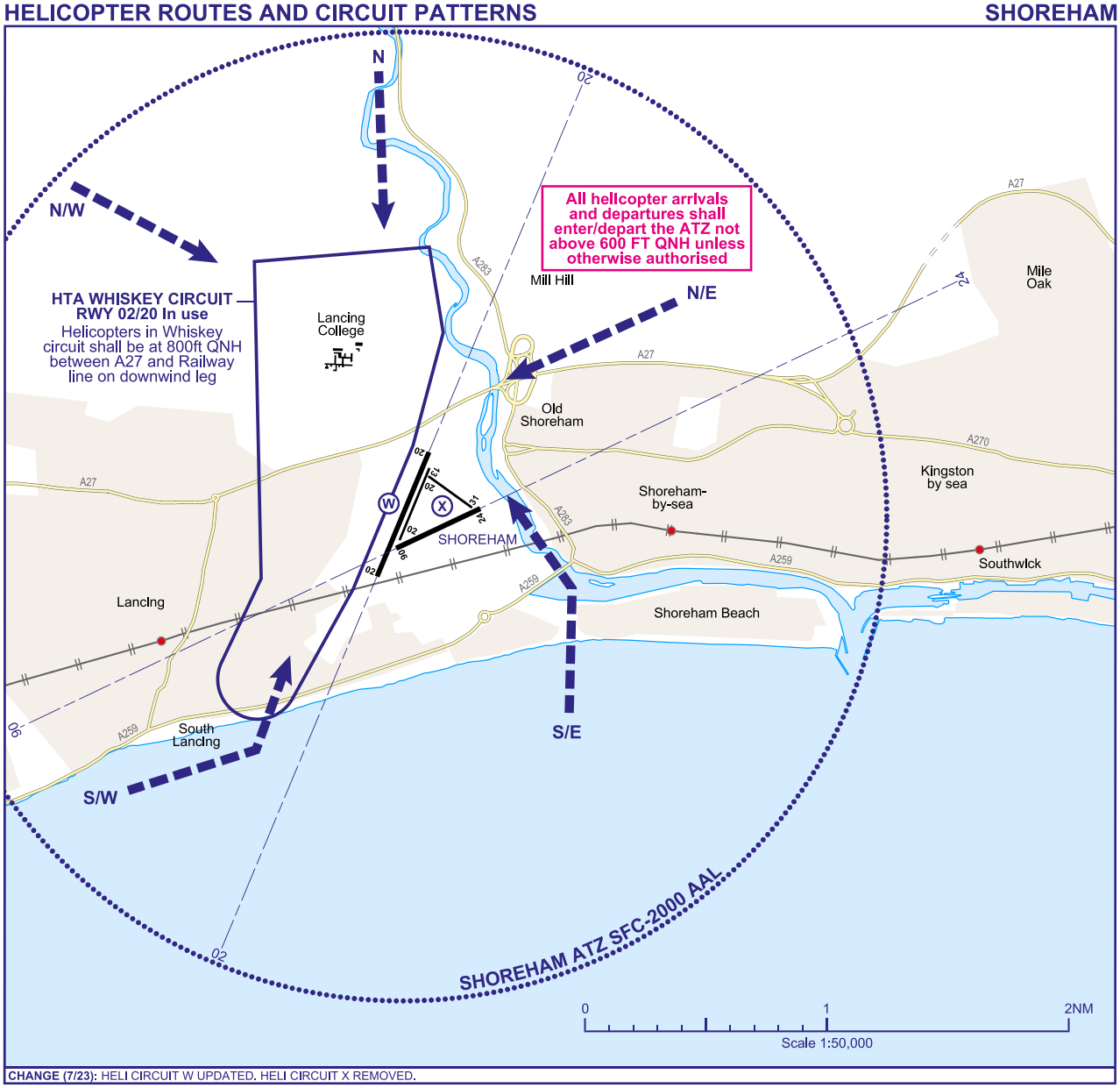
APRON/RWY	SURFACE	BEARING STRENGTH
RWY 02/20	Asphalt	14/F/B/X/U
RWY 02/20	Grass	-
RWY 06/24	Grass	-
RWY 13/31	Grass	-
APRON - 6ft AMSL	Asphalt/Concrete	-

COM		
ATIS	130.980	SHOREHAM INFO
TWR	123.155, 125.405	SHOREHAM TOWER
LIGHTING		
TWY	Blue edge. RWY guard lights at A1, B1 & K1.	

CHANGE (11/25): NEW CHART.

AERO INFO DATE 29 JUL 25

HELICOPTER ROUTES AND CIRCUIT PATTERNS — SHOREHAM



CHANGE (7/23): HELI CIRCUIT W UPDATED. HELI CIRCUIT X REMOVED.

AERO INFO DATE 03 MAY 23

AD 2-EGKA-4-1

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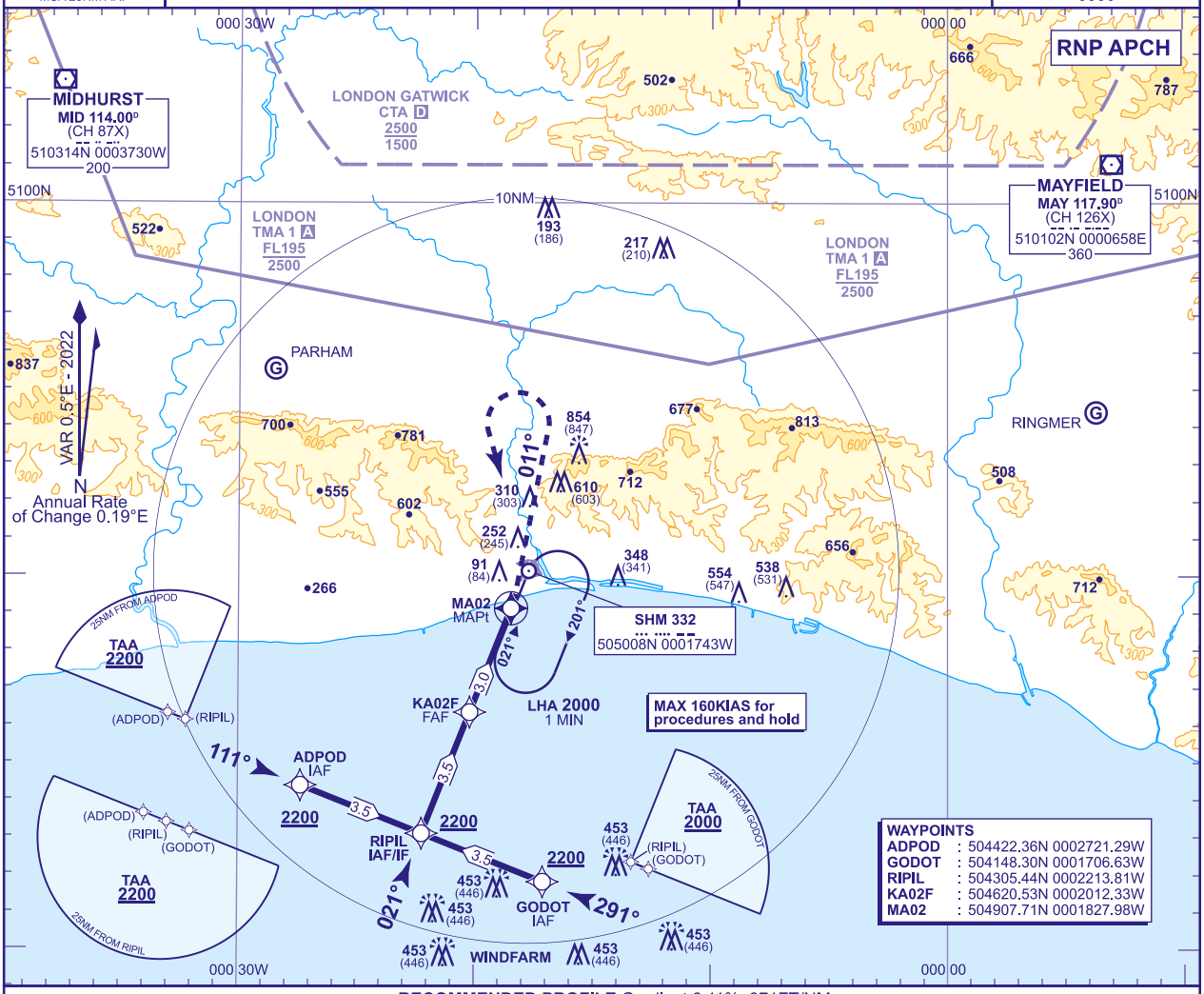
INSTRUMENT APPROACH CHART - ICAO

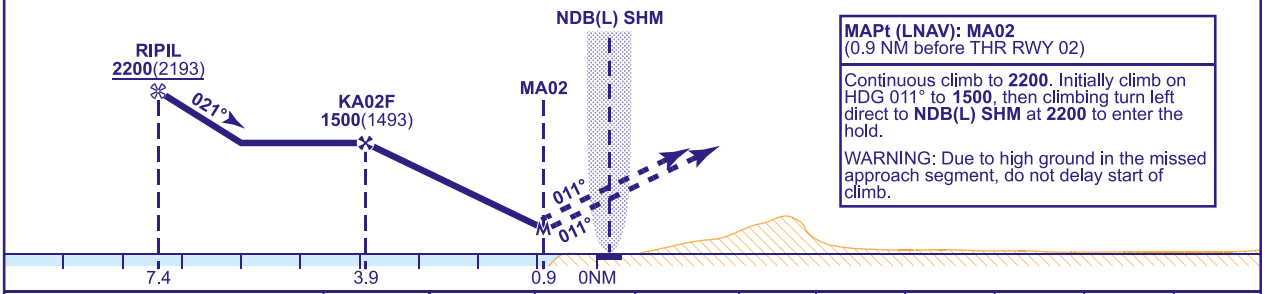
SHOREHAM
RNP
RWY 02
(ACFT CAT A,B)

2200 MSA 25NM ARP	APP 123.155	SHOREHAM APPROACH	AD ELEVATION 7
	A/G 123.155	SHOREHAM RADIO	THR ELEVATION 7
	TWR 123.155, 125.405	SHOREHAM TOWER	OBSTACLE ELEVATION 854 AMSL (847) (ABOVE THR)
	ATIS 130.980	SHOREHAM INFORMATION	BEARINGS ARE MAGNETIC
			TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 6.11%, 371FT/NM

NM to MA02	3	2	1
ALT(HGT)	**1500**(1493)	**1130**(1123)	**760**(753)



MAPt (LNAV): MA02
(0.9 NM before THR RWY 02)

Continuous climb to **2200**. Initially climb on HDG 011° to **1500**, then climbing turn left direct to **NDB(L) SHM** at **2200** to enter the hold.

WARNING: Due to high ground in the missed approach segment, do not delay start of climb.

Aircraft Category			A	B
OCA (OCH)	LNAV	2.5% Climb Grad	**480**(473)	**480**(473)
		5.5% Climb Grad	**430**(423)	**430**(423)
VM(C)OCA (OCH AAL)	Total Area		**720**(713)	**960**(953)
	South of RWY 06/24		**630**(623)	**730**(723)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	490

NOTE 1 Final approach descent gradient 6.11% matched to PAPI angle 3.5°.
2 Missed approach procedure uses **conventional navigation aids** and is not available without **NDB(L) SHM**.
3 Pilots are advised that this instrument approach procedure is established outside controlled airspace.

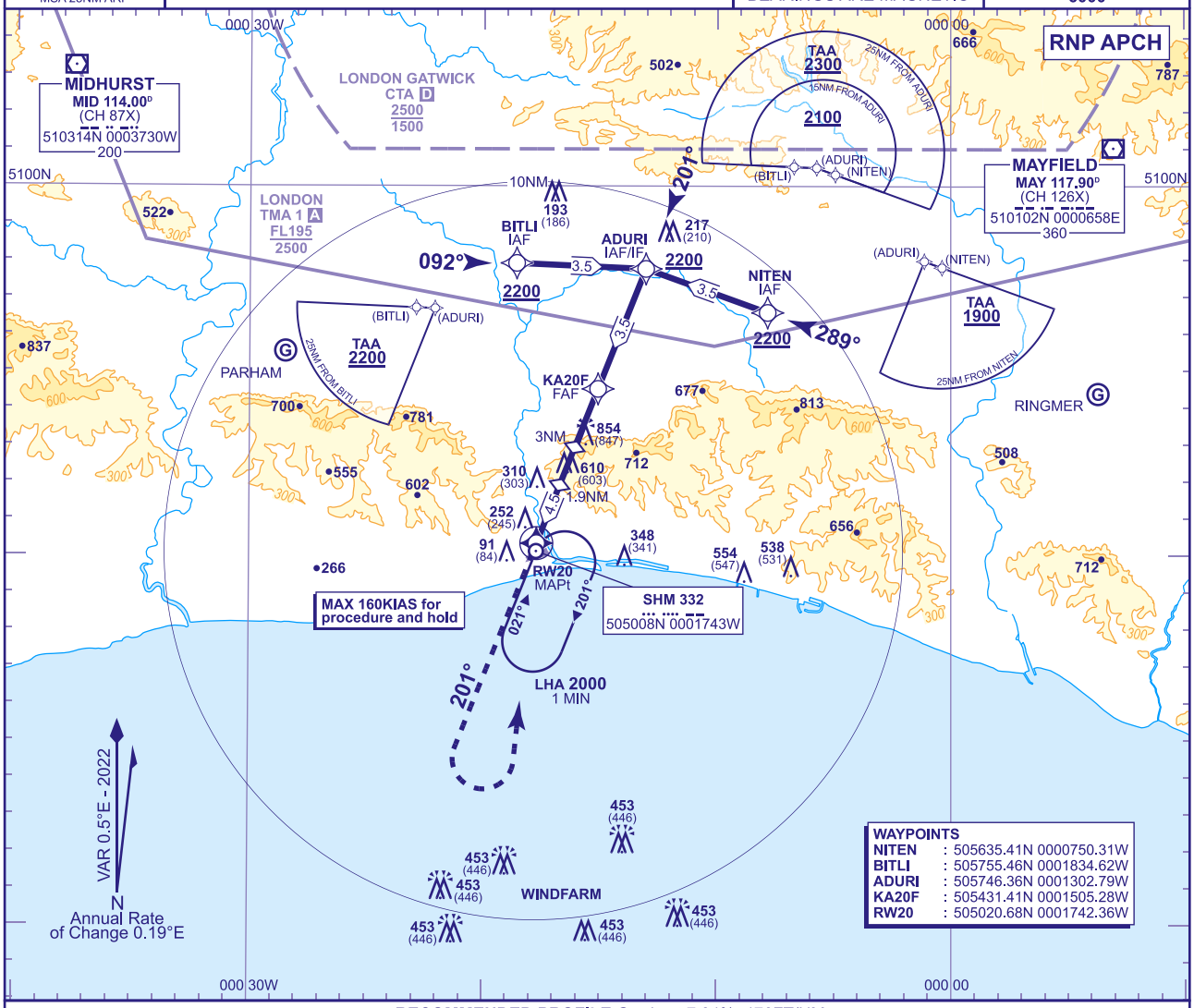
CHANGE (13/24): VM(C)OCA SOUTH OF RWY CAT A. CHART SPECIFICATION.

AERO INFO DATE 21 OCT 24
AD 2 EGKA-8-1

INSTRUMENT APPROACH CHART - ICAO

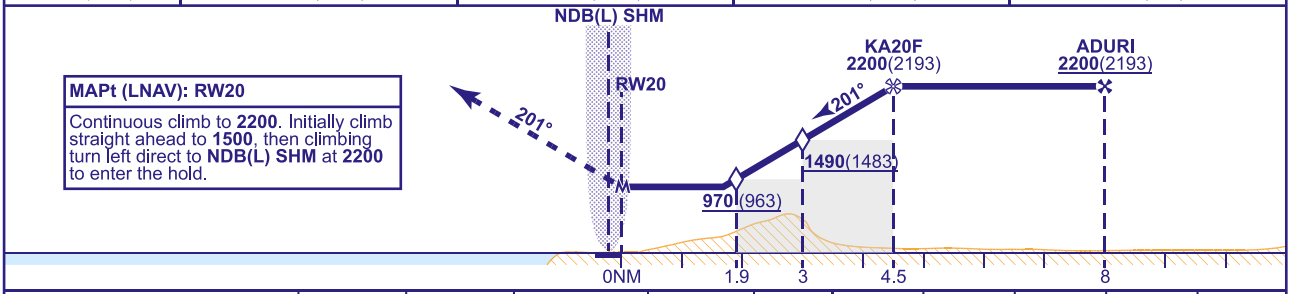
SHOREHAM
RNP
RWY 20
(ACFT CAT A,B)

2200 MSA 25NM ARP	APP 123.155	SHOREHAM APPROACH	AD ELEVATION 7
	A/G 123.155	SHOREHAM RADIO	THR ELEVATION 7
	TWR 123.155, 125.405	SHOREHAM TOWER	OBSTACLE ELEVATION 854 AMSL (847) (ABOVE THR)
	ATIS 130.980	SHOREHAM INFORMATION	BEARINGS ARE MAGNETIC
			TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 7.84%, 476FT/NM

NM to RW20	4	3 (SDF)	2	1.9 (SDF)
ALT(HGT)	1970(1963)	1490(1483)	1010(1003)	970(963)



MAPt (LNAV): RW20

Continuous climb to **2200**. Initially climb straight ahead to **1500**, then climbing turn left direct to **NDB(L) SHM** at **2200** to enter the hold.

Aircraft Category		A	B
OCA (OCH)	LNAV	760(753)	760(753)
VM(C)OCA (OCH AAL)	Total Area	760(753)	960(953)
	South of RWY 06/24	760(753)	760(753)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	1280	1120	960	800	640

NOTE
1 Steep Final Approach Descent Gradient 4.48° (7.84%), matched to PAPI angle of 4.5°
2 Missed approach procedures uses **conventional navigation aids** and is not available without **NDB(L) SHM**.
3 Direct entry to BITLI and NITEN, aircraft to remain clear of Gatwick CTA.
4 Direct entry to ADURI (IAF/IF) from the north, only available to aircraft in receipt of a CTR/CTA transit from Gatwick ATC.
5 Pilots are advised that this instrument approach procedure is established outside of controlled airspace.

CHANGE (11/25): RECOMMENDED PROFILE CORRECTION.

AERO INFO DATE 29 JUL 25
AD 2-EGKA-8-2

Instrument Approach Procedure Coding Tables

SHOREHAM RNP RWY 02 - Instrument Approach Procedure via ADPOD

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R02L	001	IF	ADPOD	N	-	-	2200	-160	504422.36N 0002721.29W	IAF
R02L	002	TF	RIPIL	N	111° (111.5°)	LEFT	2200	-160	504305.44N 0002213.81W	IF / 6.5NM
R02L	003	TF	KA02F	N	021° (021.5°)	-	1500	-	504620.53N 0002012.33W	FAF / 3NM
R02L	004	TF	MA02	Y	021° (021.6°)	-	-	-	504907.71N 0001827.98W	MAPt
R02L	005	CA	-	N	011° (011.1°)	-	1500	-	-	At 1500 revert to conventional navigation

SHOREHAM RNP RWY 02 - Instrument Approach Procedure via GODOT

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R02R	001	IF	GODOT	N	-	-	2200	-160	504148.30N 0001706.63W	IAF
R02R	002	TF	RIPIL	N	291° (291.6°)	RIGHT	2200	-160	504305.44N 0002213.81W	IF / 6.5NM
R02R	003	TF	KA02F	N	021° (021.5°)	-	1500	-	504620.53N 0002012.33W	FAF / 3NM
R02R	004	TF	MA02	Y	021° (021.6°)	-	-	-	504907.71N 0001827.98W	MAPt
R02R	005	CA	-	N	011° (011.1°)	-	1500	-	-	At 1500 revert to conventional navigation

SHOREHAM RNP RWY 02 - Instrument Approach Procedure via RIPIL

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R02C	001	IF	RIPIL	N	-	-	2200	-160	504305.44N 0002213.81W	IAF / IF / 6.5NM
R02C	002	TF	KA02F	N	021° (021.5°)	-	1500	-	504620.53N 0002012.33W	FAF / 3NM
R02C	003	TF	MA02	Y	021° (021.6°)	-	-	-	504907.71N 0001827.98W	MAPt
R02C	004	CA	-	N	011° (011.1°)	-	1500	-	-	At 1500 revert to conventional navigation

CHANGE (13/24): NEW SPECIFICATION.
AERO INFO DATE 16 OCT 24

Instrument Approach Procedure Coding Tables

SHOREHAM RNP RWY 20 - Instrument Approach Procedure via NITEN

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20L	001	IF	NITEN	N	-	-	2200	-160	505635.41N 0000750.31W	IAF
R20L	002	TF	ADURI	N	289° (289.8°)	LEFT	2200	-160	505746.36N 0001302.79W	IF / 8NM
R20L	003	TF	KA20F	N	201° (201.7°)	-	2200	-	505431.41N 0001505.28W	FAF / 4.5NM
R20L	004	TF	RW20	Y	201° (201.6°)	-	-	-	505020.68N 0001742.36W	MAPt
R20L	005	CA	-	N	201° (201.6°)	-	1500	-	-	At 1500 revert to conventional navigation

SHOREHAM RNP RWY 20 - Instrument Approach Procedure via BITLI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20R	001	IF	BITLI	N	-	-	2200	-160	505755.46N 0001834.62W	IAF
R20R	002	TF	ADURI	N	092° (092.5°)	RIGHT	2200	-160	505746.36N 0001302.79W	IF / 8NM
R20R	003	TF	KA20F	N	201° (201.7°)	-	2200	-	505431.41N 0001505.28W	FAF / 4.5NM
R20R	004	TF	RW20	Y	201° (201.6°)	-	-	-	505020.68N 0001742.36W	MAPt
R20R	005	CA	-	N	201° (201.6°)	-	1500	-	-	At 1500 revert to conventional navigation

SHOREHAM RNP RWY 20 - Instrument Approach Procedure via ADURI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R20C	001	IF	ADURI	N	-	-	2200	-160	505746.36N 0001302.79W	IAF / IF / 8NM
R20C	002	TF	KA20F	N	201° (201.7°)	-	2200	-	505431.41N 0001505.28W	FAF / 4.5NM
R20C	003	TF	RW20	Y	201° (201.6°)	-	-	-	505020.68N 0001742.36W	MAPt
R20C	004	CA	-	N	201° (201.6°)	-	1500	-	-	At 1500 revert to conventional navigation

CHANGE (13/24): NEW CHART SPECIFICATION.
AERO INFO DATE 16 OCT 24

EGCV — SLEAP

EGCV AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCV — SLEAP

EGCV AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 525002N Long: 0024618W Mid point of Runway 05/23
2	Direction and distance from city	10 NM N of Shrewsbury.
3	Elevation / Reference temperature / Mean Low Temperature	275 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	170 FT
5	Magnetic Variation / Annual Change	0.33°E (2027) / 0.18°E
6	AD Administration Address Telephone E-mail address Web address	SHROPSHIRE AERO CLUB LTD Sleap Aerodrome, Harmer Hill, Shrewsbury, Shropshire, SY4 3HE 01939-232882 (Airfield Operations Office) info@shropshireaeroclub.co.uk www.shropshireaeroclub.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Aerodrome is available to aircraft needing use of a licensed airfield. PPR by phone or online. Ext 1 - PPR Ext 3 - Aerodrome Ops Ext 6 - Rotors Running Refuel

EGCV AD 2.3 OPERATIONAL HOURS

1	AD Administration	0830-1630 (0830-1800). Out of hours ops available.
2	Customs and immigration	General Aviation Report (GAR) form submission to National Co-ordination Unit (NCU) is required in advance to notify HMRC Border Force and Police. https://www.submit-general-aviation-report.service.gov.uk
3	Health and sanitation	
4	AIS Briefing Office	Self-briefing facility in flight office.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	Self-briefing facility in flight office.
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	H24 Self-service.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	

EGCV AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL, F-34 W15W50, W80, W100, S80, S100, Sport Plus 4.
3	Fuelling facilities/capacity	JET-A1 and F34 rotors running refuels available 24hrs. Contact 01939-232882, Ext 6 or www.shropshireaeroclub.com/heli.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Available.
6	Repair facilities for visiting aircraft	On airfield M3 licenced engineering facility, Shropshire Light Aviation, Tel: 01939-290861.
7	Remarks	

EGCV AD 2.5 PASSENGER FACILITIES

1	Hotels	Premier Inn at Harmer Hill 4 miles from airfield.
2	Restaurants	Bistro cafe on airfield.
3	Transportation	Taxi service available.
4	Medical facilities	Basic first aid trained Initial Emergency Response personnel and defibrillator on site.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGCV AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF category special Wednesday to Sunday as per ops hours.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	On site company resources.
4	Remarks	

EGCV AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGCV AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	HELI EAST Surface: Concrete MAIN APRON Surface: Grass
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	The MAIN APRON is grass but remains well-drained. HELI EAST consists of three 45 M x 45 M helipads on the eastern side of the disused runway, each marked by a white 'H'. It is designated for training, parking, and rotors running refuels. The MAIN APRON may also be utilised for small helicopter parking.

EGCV AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 525002.92N 0024602.04W, 525006.38N 0024624.95W.

EGCV AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
INTENTIONALLY BLANK					

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCV1851)	WINDTURBINE	524957.22N 0024600.72W	341 FT		No	

EGCV AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGCV AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
05	045.18°	798 x 31 M	RWY surface: Asphalt	524953.58N 0024632.43W	THR 271.4 FT	
23	225.18°	798 x 31 M	RWY surface: Asphalt	525011.78N 0024602.20W	THR 274.7 FT	
18	178.61°	770 x 18 M	RWY surface: Asphalt	525011.31N 0024613.26W	THR 273.3 FT	
36	358.61°	770 x 18 M	RWY surface: Asphalt	524946.39N 0024612.26W	THR 270.9 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 05
						RWY 23
						RWY 18
						RWY 36

EGCV AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	**2**	**3**	**4**	**5**	**6**
05	798 M	798 M	798 M	798 M	
23	798 M	798 M	798 M	798 M	
18	770 M	770 M	770 M	770 M	
36	770 M	770 M	770 M	770 M	

EGCV AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05		Light intensity low	OTHER /3.5° 13 FT LITAS			Light intensity low			
23		Light intensity low	OTHER /3.5° 12 FT LITAS			Light intensity low			

EGCV AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 525006.41N 0024625.04W Flashing Green
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	EDGE: Taxiway Alpha and Bravo have blue edge lighting.
4	Secondary power supply/switch-over time	Yes. Less than 10 seconds.
5	Remarks	

EGCV AD 2.16 HELICOPTER LANDING AREA

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EGCV AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SLEAP ATZ A circle, 2 NM radius, centred at 525002N 0024618W on longest notified runway (05/ 23)	Upper limit: 2000 FT AGL Lower limit: SFC	G	SLEAP RADIO English			Sleap ATZ is close to RAF Shawbury ATZ and partially overlaps Shawbury MATZ.

EGCV AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	SLEAP RADIO	122.455 A/G frequency.			0830-1630 (0830-1800).	ATZ hours coincident with A/G hours.

EGCV AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGCV AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) RAF Shawbury is 4.5 NM south-east with identical runway headings and can be mistaken for Sleap. During RAF Shawbury's published MATZ operating hours Mon-Fri 0845-1700 (0745-1600); pilots should initially contact Shawbury Zone (133.155). Shawbury's ATZ is operational Mon-Sun H24 and must be avoided. RAF Shawbury provides an excellent Flight Information Service.
b) An east-west entry and exit lane for helicopters from RAF Shawbury sits on the southern edge of Sleap's ATZ boundary at 1000 FT to 1500 FT. This should be avoided when possible.

2 GROUND MOVEMENT

a) **KEEP CLEAR AREA**: Aircraft should not be left on the fuel bay.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) **Gliders**

i. At Sleap, aero-tow gliding may be operational at any time.
ii. At RAF Shawbury, during weekends and bank holidays, aero-tow gliding is operational.

b) **Aeromodels**

i. Remote controlled model aircraft may be operating at Sleap up to 400 FT QFE on the western end of disused Runway 28.

c) **Military Helicopters**

i. Aircraft should avoid RAF Shawbury's military helicopter entry and exit lane that runs east-west close to the south boundary of the Sleap ATZ at 1000 FT to 1500 FT QFE. Military helicopters using the lane do not monitor Sleap's A/G radio frequency.
ii. Military helicopter training may occur at Sleap. Military helicopters will always operate to the WEST of the active runway. Sufficient clearance of 75 M is to be given to landing and departing civil aircraft.

d) **CAA Low Flying Display Practice Authorisation**

i. The airfield operator holds an aerobatic and low flying exemption from the CAA permitting practice display flying below 500 FT QFE. Pilots of arriving and departing traffic will be informed by Sleap Air/Ground radio when practices are taking place. These flights will normally last only for a short duration and will be conducted only when prevailing traffic conditions suit.

e) **Wake Turbulence**

i. Sleap is often used by large and heavy Military Helicopters and produce Wake Turbulence. The wake turbulence requirements for light aircraft is an absolute minimum of a 4 mile separation. The A/G team will advise if there is large Military traffic in the circuit. If operating a large helicopter, please be mindful of wake in the vicinity of light aircraft.

f) **Out Of Hours Airfield Use**

i. Aircraft based at Sleap operate outside of published airfield operating hours, or by visitors on request.

5 HELICOPTER OPERATIONS

a) **Helicopter Arrival**

i. Helicopters inbound to Sleap can join on direct track at 600 FT QFE, without crossing the active runway. Give way to fixed wing traffic on finals and military helicopter traffic.
ii. Alternatively, helicopters may join the fixed-wing circuit.
iii. Helicopters requiring fuel should liaise with the ops staff regarding best parking and shut down location. Fuel hoses are 20 M (60 FT) long, so there is no need to park too close to the pump.
iv. Helicopters parking should consider downwash and tail rotor safety, clear of fixed-wing aircraft and access to taxiways and grass aprons.
v. Rotors running refuels on request via 01939-232882, Ext 6.
vi. For all helicopter procedures visit www.shropshireaeroclub.com/heli.

b) **Helicopter Departure**

i. Departure should be at 600 FT QFE on track until 2 NM radius away from Sleap, or departing in accordance with the active runway and fixed-wing circuit.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

a) Shropshire Aero Club operates a designated training organisation for ab-initio flying training, night ratings and aerobatics. There is an approved training organisation for commercial pilot's licences, multi engine piston and instrument rating training.

EGCV AD 2.21 NOISE ABATEMENT PROCEDURES

a) Adjust circuit to avoid over flying local villages and towns, particularly Wem, Clive, Loppington, Noneley, Burlton and Ruewood.
b) On departure from Runway 36 turn right 10 degrees to avoid houses in Noneley village.

EGCV AD 2.22 FLIGHT PROCEDURES

1 ARRIVAL PROCEDURES

a) PPR is required by phone or online (shropshireaeroclub.com/fly-in).
b) When RAF Shawbury is operating, contact Shawbury Zone (133.155) before contacting Sleap. Once within visual with the airfield, or Shawbury Zone advises, contact Sleap Radio for airfield data and traffic information. Aircraft inbound to Sleap will normally be requested by Shawbury Zone to fly not below 2500 FT QNH to keep above busy helicopter traffic.
c) It is advised to join from the south via the Montford Bridge (Disused AD) VRP, or from the north via the Ellesmere Lake VRP.
d) Join the circuits from the overhead where possible, remaining inside the ATZ.
e) When display flying practice or aerobatics is operational, arriving traffic must not fly overhead the airfield within a 2 NM radius. Instead, arriving aircraft should join the circuit downwind at 1000 FT QFE.
f) Gyroplane pilots are required to read the specific gyro procedures before their arrival. For more details, please visit www.shropshireaeroclub.com/fly-in or call 01939-232882, extension 1.

2 DEPARTURE PROCEDURES

a) When RAF Shawbury is operating, aircraft should contact Shawbury Zone on 133.155 after leaving Sleap's ATZ.
b) Aircraft **must** always avoid RAF Shawbury's ATZ unless they are in two-way communication and have been given clearance by Shawbury Zone (133.155).

3 CIRCUITS

a) Circuit height is 1000 FT QFE for fixed-wing powered aircraft.
b) Circuit height is 800 FT QFE for gyrocopters and flown inside of fixed-wing circuit.
c) Civil helicopters should fly at 600 FT QFE within Sleap's ATZ, or join the fixed-wing circuit.
d) Monday to Friday, all circuits flown by fixed-wing powered aircraft shall be EAST of the airfield meaning left hand on Runways 18 and 23 and right hand on Runways 36 and 05.
e) On Saturdays, Sundays and Bank Holidays, the direction flown by fixed-wing powered and gyrocopter aircraft shall be left hand circuit.
f) On Saturdays, Sundays and Bank Holidays, gliders shall fly right hand circuit.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGCV AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGCV AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCV-2-1

EGCV AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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SLEAP EGCV

AD ELEV 275FT

ARP 525002N 0024618W

AERODROME CHART - ICAO

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD

341 (66)

VAR 0.3°E - 2027

N

Annual Rate of Change 0.18°E

COM		
A/G	122.455	SLEAP RADIO

LIGHTING	
THR 05/23	LI.
RWY 05/23	LI.
TWY A & B	Blue edge.

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 18/36	Asphalt	-	-
RWY 05/23	Asphalt	-	-
Main Apron	Grass	-	-
Heli East Apron	Concrete	-	-
TWY A & B	Asphalt/Concrete	-	-

Rwy **23** Thr Elev **275**
525011.78N 0024602.20W

Rwy **18** Thr Elev **273**
525011.31N 0024613.26W

Rwy **36** Thr Elev **271**
524946.39N 0024612.26W

Rwy **05** Thr Elev **271**
524953.58N 0024632.43W

Heli East

Disused

Twy A

Twy B

Signal Square

Control Tower

Main Apron

341 (66)

LITAS (3.5°)
MEHT 12

LITAS (3.5°)
MEHT 13

230°M

178°M

358°M

053°M

770m x 18m

798m x 31m

Flashing Green

CHANGE (10/25): EDITORIAL. MAG INFO.

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EGHI — SOUTHAMPTON

EGHI AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHI — SOUTHAMPTON

EGHI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 505701N Long: 0012124W Mid point of Runway 02/20.
2	Direction and distance from city	3.5 NM NNE of Southampton. 1 NM SE of Eastleigh.
3	Elevation / Reference temperature / Mean Low Temperature	44 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	152 FT
5	Magnetic Variation / Annual Change	0.16°E (2022) / 0.20°E
6	AD Administration Address Telephone AFS	SOUTHAMPTON INTERNATIONAL AIRPORT LTD. Southampton Airport, Southampton SO18 2NL. 023-80627102 (Airport Control Centre) EGHIZPZX.
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Aerodrome not normally available to aircraft unable to communicate with ATC by radio.

EGHI AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).
2	Customs and immigration	As AD hours.
3	Health and sanitation	
4	AIS Briefing Office	As AD hours. Self briefing.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	As AIS Briefing hours.
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	By arrangement with handling agents.
10	Security	H24
11	De-icing	By arrangement with Swissport Handling.
12	Remarks	Operational Hours: Hours subject to change, consult latest NOTAM. Aerodrome/ATC hours may be extended by arrangement. Requests for extension of aerodrome hours must be made to the Airside Duty Manager, Tel: 023-80627113. Refer to AD 2.20 item 1.

EGHI AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Facilities available for handling weights up to 4 tonnes by prior arrangement with handling agent. Nearest railway siding, Eastleigh, Hants, 1 NM
2	Fuel and oil types	AVTUR JET A-1 Shell 750 turbine grades.
3	Fuelling facilities/capacity	Bowser. maximum delivery rate (JET A-1) 6.5 lts per second.
4	De-icing facilities	By arrangement with Swissport Handling.
5	Hangar space for visiting aircraft	Prior arrangement with Signature Flight Support, Tel: 0330-0271276, and JetWorks, Tel: 023-81290777.
6	Repair facilities for visiting aircraft	

7	Remarks	Mandatory handling for all non General Aviation aircraft. Handling Agencies are: Signature Aviation, Tel: 023-80616600, SITA: SOUGFCR. Swissport, Tel: 023-80627272 or 023-80627147 or 07815-147809. SITA: SOUOOXH.

EGHI AD 2.5 PASSENGER FACILITIES

1	Hotels	Unlimited within 4 NM of the aerodrome. Limited adjacent to the aerodrome.
2	Restaurants	Restaurant and bar. In terminal building.
3	Transportation	Buses, taxis, car hire, trains. Nearest railway station, Southampton Airport (Parkway), 100 M from terminal building.
4	Medical facilities	Limited first aid treatment provided by aerodrome operator, requests for assistance to Airport Fire Service, Tel: 023-80627222.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGHI AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 6 available Mon-Sat 0610-0630 (0510-0530); Sun 0655-0730 (0555-0630). Aircraft to call on Tower frequency for emergency response only. RFF Category 7 available by arrangement with the Airport Duty Manager. (2 hours notice normally required).
2	Rescue equipment	As required for RFF Category 7.
3	Capability for removal of disabled aircraft	Aircraft lifting capability available with 3 hours notice. Contact Airport Duty Manager, Tel: 023-80627113.
4	Remarks	

EGHI AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Snow ploughs, brushes and movement area de-icing equipment.
2	Clearance priorities	Runway 02/20, Taxiway A, Taxiway B, Apron and airside roads.
3	Remarks	Braking action assessment by Grip Tester. Latest information from Airside Operations Tel: 023-80627102.

EGHI AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	STAND 5 Surface: Concrete PCN 57/R/C/W/T STANDS 2 TO 4 Surface: Brick, Block paving PCN 40/F/C/X/T STANDS 6 TO 14 Surface: Brick, Block paving PCN 23/F/C/Y/T
2	Taxiway width, surface and strength	Taxiway A: 18 M Surface: Concrete and asphalt PCN 35/R/B/W/T Taxiway B: 18 M Surface: Concrete and asphalt PCN 35/R/B/W/T
3	Altimeter checkpoint location and elevation	Apron Stands 2-12, 38 FT AMSL.
4	VOR checkpoints	

5	INS checkpoints	Holding Point A1: 505645.14N 0012139.09W. Holding Point B1: 505701.55N 0012129.96W. See Aircraft Parking/Docking Chart.
6	Remarks	Use of Taxiway Alpha, south of the apron between Alpha 1 and Alpha 2 is restricted to aircraft with a wingspan of 40 M or less.

EGHI AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	All CAT shall be marshalled on to stand by Airside Operations. Stands 2-14, surface stand markings. Illuminated stand designator signs. Stands 2-4 and 6-14. Nose-in parking Stands 2-14. Powerback operations are not permitted from Stands 5, 6, 7, 12, 13 and 14. Aircraft departing from Stands 13 and 14 are to push-back and then tow to holding point A6. APU equipped aircraft are to start engines at A6. Non APU equipped aircraft may start on stand but are to maintain ground idle power setting until at A6.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 02/20: Runway centre-line, designator, aiming points and touchdown zone markings, displaced threshold, side stripes. Taxiway light(s): Blue elevated taxiway edge lights. Runway guard lights and holding points.
3	Stop bars and runway guard lights (if any)	Holds A1 and B1.
4	Other runway protection measures	
5	Remarks	Wind direction indicators located on the eastern side of the runway, 300 M from each threshold. 505644.53N 0012125.52W (LGTD); 505715.10N 0012108.49W (LGTD).

EGHI AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHI19649) 20/APPROACH 02/ TAKE-OFF	TREE	505842.55N 0012007.77W	261 FT	93 FT	No	
(EGHI16053) 20/APPROACH 02/ TAKE-OFF	TREE	505841.34N 0012008.23W	259 FT	90 FT	No	
(EGHI16049) 20/APPROACH 02/ TAKE-OFF	TREE	505840.47N 0012008.65W	244 FT	77 FT	No	
(EGHI19651) 20/APPROACH 02/ TAKE-OFF	TREE	505839.41N 0012008.84W	240 FT	78 FT	No	
(EGHI16045) 20/APPROACH 02/ TAKE-OFF	TREE	505838.46N 0012009.63W	229 FT	73 FT	No	
(EGHI16043) 20/APPROACH 02/ TAKE-OFF	TREE	505837.15N 0012010.00W	227 FT	85 FT	No	
(EGHI16008) 20/APPROACH 02/ TAKE-OFF	TREE	505834.18N 0012015.23W	217 FT	105 FT	No	
(EGHI14501) 20/APPROACH 02/ TAKE-OFF	BUILDING	505741.58N 0012057.67W	97 FT	51 FT	Yes Red	
(EGHI19346) 02/APPROACH 20/ TAKE-OFF	LOC LT	505631.75N 0012141.46W	34 FT	6 FT	Yes Red	
(EGHI19347) 20/TAKE-OFF	LOC LT	505631.47N 0012140.19W	34 FT	6 FT	Yes Red	
(EGHI19569) 02/APPROACH 20/ TAKE-OFF	TREE	505624.86N 0012147.92W	84 FT	68 FT	No	
(EGHI13576) 02/APPROACH 20/ TAKE-OFF	TREE	505618.43N 0012145.08W	81 FT	72 FT	No	
(EGHI19525) 02/APPROACH 20/ TAKE-OFF	TREE	505610.40N 0012145.89W	145 FT	104 FT	No	
(EGHI19545) 02/APPROACH 20/ TAKE-OFF	TREE	505610.25N 0012149.79W	143 FT	100 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHI19555) 20/TAKE-OFF	TREE	505609.30N 0012158.31W	130 FT	118 FT	No	
(EGHI13356) 02/APPROACH 20/ TAKE-OFF	TREE	505608.64N 0012139.14W	158 FT	89 FT	No	
(EGHI19565) 20/TAKE-OFF	TREE	505603.97N 0012209.89W	137 FT	124 FT	No	
(EGHI10837) 20/TAKE-OFF	TREE	505550.15N 0012209.70W	147 FT	59 FT	No	
(EGHI17152) 02/APPROACH 20/ TAKE-OFF	TREE	505547.58N 0012145.36W	207 FT	75 FT	No	
(EGHI17237) 20/TAKE-OFF	TREE	505545.83N 0012205.51W	179 FT	65 FT	No	
(EGHI19535) 02/APPROACH 20/ TAKE-OFF	TREE	505540.74N 0012202.93W	230 FT	64 FT	No	
(EGHI3836) 02/APPROACH 20/ TAKE-OFF	CHIMNEY	505539.41N 0012150.47W	223 FT	30 FT	No	
(EGHI11153) 02/APPROACH 20/ TAKE-OFF	MAST	505534.94N 0012150.56W	240 FT	34 FT	No	
(EGHI11154) 02/APPROACH 20/ TAKE-OFF	MAST	505534.85N 0012150.24W	248 FT	43 FT	No	
(EGHI19528) 02/APPROACH 20/ TAKE-OFF	TREE	505534.76N 0012155.22W	256 FT	48 FT	No	
(EGHI17206) 02/APPROACH 20/ TAKE-OFF	TREE	505533.74N 0012153.42W	262 FT	52 FT	No	
(EGHI7608) 02/APPROACH 20/ TAKE-OFF	CHIMNEY	505533.44N 0012151.89W	250 FT	40 FT	No	
(EGHI4242) 02/APPROACH 20/ TAKE-OFF	TREE	505532.85N 0012202.63W	249 FT	54 FT	No	Highest tree in small copse.
(EGHI7607) 02/APPROACH 20/ TAKE-OFF	CHIMNEY	505532.63N 0012151.01W	255 FT	47 FT	No	
(EGHI3835) 02/APPROACH 20/ TAKE-OFF	TV AERIAL	505532.59N 0012150.96W	259 FT	51 FT	No	
(EGHI17297) 02/APPROACH 20/ TAKE-OFF	TREE	505526.07N 0012204.95W	243 FT	74 FT	No	
(EGHI6779) 20/TAKE-OFF	BUILDING	505442.24N 0012400.92W	224 FT	176 FT	No	Offset to Runway 20.
(EGHI6778) 20/TAKE-OFF	AERIAL	505442.12N 0012401.77W	250 FT	196 FT	No	Offset to Runway 20.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHI16407)	TREE	510052.76N 0011717.12W	447 FT	61 FT	No	
(EGHI9004)	PYLON	510026.09N 0011728.81W	415 FT	106 FT	No	
(EGHI18776)	TREE	505745.96N 0012505.30W	376 FT	91 FT	No	
(EGHI18863)	MAST	505738.84N 0012715.37W	457 FT	201 FT	No	
(EGHI18864)	MAST	505738.81N 0012715.95W	488 FT	230 FT	No	
(EGHI7428)	MAST	505727.04N 0012347.15W	355 FT	103 FT	No	
(EGHI18168)	MAST	505706.57N 0012409.01W	363 FT	113 FT	No	
(EGHI18169)	TREE	505704.62N 0012408.40W	345 FT	92 FT	No	
(EGHI13030)	BLDG AERIAL	505638.73N 0012419.10W	394 FT	139 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHI14922)	TREE	505525.70N 0012027.89W	374 FT	122 FT	No	
(EGHI14924)	TREE	505525.48N 0012029.13W	365 FT	110 FT	No	
(EGHI9945)	MAST	505516.63N 0012015.13W	372 FT	109 FT	Yes Red	
(EGHI9944)	MAST	505505.87N 0011951.32W	388 FT	124 FT	No	
(EGHI17593)	MAST	505450.20N 0011942.59W	389 FT	160 FT	No	
(EGHI4557)	DOCK CRANE	505423.01N 0012639.28W	412 FT	420 FT	Yes Red	

EGHI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	METAR available during aerodrome operating hours with current ATIS broadcast on Tel: 023-8062 5877.
9	ATS units provided with information	SOUTHAMPTON
10	Additional information (limitation of service, etc.)	

EGHI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
02	019.39°	1887 x 36 M	RWY surface: Asphalt, Grooved PCN 52/R/B/X/T	505636.86N 0012137.90W 151.6 FT	THR 30.6 FT TDZ 37.0 FT	RWY 20 0.25% downslope
20	199.39°	1887 x 36 M	RWY surface: Asphalt, Grooved PCN 52/R/B/X/T	505725.87N 0012110.60W 151.6 FT	THR 43.6 FT TDZ 43.6 FT	RWY 20 0.25% downslope

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
	60 x 150 M	1796 x 280 M	90 x 74 M -			RWY 02 Threshold permanently displaced by 73 M.
	60 x 150 M	1796 x 280 M	90 x 74 M -		1665 x 120 M	RWY 20 Threshold permanently displaced by 209 M.

EGHI AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02	1749 M	1809 M	1749 M	1676 M	
20	1814 M	1874 M	1814 M	1605 M	
02	1453 M	1513 M	1453 M		Take-off from intersection with Hold A1.
02	916 M	976 M	916 M		Take-off from intersection with Hold B1.
20	781 M	841 M	781 M		Take-off from intersection with Hold B1.

EGHI AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02	Centre-line with one crossbar. 426 M Light intensity high	Green Light intensity high Wingbars	PAPI Left/3° 51 FT 293 M		Coded 15 M spacing. Alternate white/red coding commences at runway midpoint. Light intensity high	Elevated full length 60 M spacing White Light intensity high	Red Light intensity high		
20	Centre-line with two crossbars. 434 M Light intensity high	Green Light intensity high Wingbars	PAPI Left/3.1° 42 FT 271 M		Coded 15 M spacing. Alternate white/red coding commences at runway midpoint. Light intensity high	Elevated full length 60 M spacing White Light intensity high	Red Light intensity high		

EGHI AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 505708.17N 0012134.18W Flashing White/Green. HN during aerodrome operating hours.
2	LDI location and lighting Anemometer location and lighting	Anemometer: 505640.01N 0012129.20W (LGTD); 505720.61N 0012105.46W (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Secondary power supply only.
5	Remarks	Illuminated wind direction indicators. Obstacle lights.

EGHI AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGHI AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SOUTHAMPTON CTR 510459N 0012017W thence clockwise by the arc of a circle radius 8 NM centred on 505701N 0012124W to 510115N 0011039W - 504928N 0011714W thence clockwise by the arc of a circle radius 8 NM centred on 505701N 0012124W to 505133N 0013037W - 505512N 0013047W - 510123N 0012722W - 510459N 0012017W	Upper limit: 2000 FT ALT Lower limit: SFC	D	SOLENT RADAR English SOUTHAMPTON RADAR English	6000 FT		CTR contiguous with the Solent CTA. See ENR 2.1. Outside the Solent CTA notified hours of operation the Transition Altitude is 3000 FT. Aircraft given approval to enter or leave the CTR when en-route to, or departing from, any unlicensed aerodrome or landing site within the CTR, are to maintain a continuous listening watch on the appropriate ATC radio frequency. A change to 'SAFETYCOM' or other air/ground frequency is only permitted when specific approval has been given by ATC. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. Bishops Waltham Flying Area Provided that the following requirements are complied with, the provisions of SERA Section 4 Flight Plans and CAP 694 The UK Flight Planning Guide are deemed to have been met in respect of aircraft arriving and departing at unlicensed aerodromes Lower Upham (505817.00N 0011508.00W) or Roughay (505920.40N 0011513.20W), without a requirement to establish RTF contact with the ATS Unit specified at 4. Aircraft are to remain within the Bishops Waltham Flying Area (BWFA). Lateral limits of which are that part of the Southampton CTR within a circle radius 1.75 NM centred on 505839.60N 0011331.92W. Upper/lower limits 1500 FT ALT/SFC. Use of Lower Upham and Roughay aerodromes is subject to prior permission from the respective aerodrome operator. Such permission must have been received prior to commencement of a particular flight.
SOUTHAMPTON ATZ A circle, 2.5 NM radius, centred at 505701N 0012124W on longest notified runway (02/20)	Upper limit: 2000 FT AGL Lower limit: SFC	D	SOLENT RADAR English SOUTHAMPTON RADAR English	6000 FT		ATZ within Southampton CTR.

EGHI AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	SOLENT RADAR	120.230 DOC 50 NM/5500 FT.			Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	Outside of these hours, Southampton CTR and all Solent CTA's will be deactivated and reclassified Class G. To facilitate ATC breaks ATS may not be available. Service availability will be tactically managed to accommodate scheduled movements. ATZ hours coincident with Tower hours, but not by arrangement.
	SOUTHAMPTON RADAR	122.730 DOC 50 NM/ 10,000 FT.			As directed by ATC.	
TWR	SOUTHAMPTON TOWER	118.205 DOC 25 NM/4000 FT.			Mon-Sat 0630-2200 (0530-2100); Sun 0730-2200 (0630-2100). PPR until 2300 (2200).	Outside of these hours, Southampton CTR and all Solent CTA's will be deactivated and reclassified Class G. To facilitate ATC breaks ATS may not be available. Service availability will be tactically managed to accommodate scheduled movements. Aircraft that are not equipped for 8.33kHz frequencies cannot operate at this aerodrome.
ATIS	SOUTHAMPTON INFORMATION	130.880 DOC 50 NM/ 15,000 FT.			HO	
OTHER	SOUTHAMPTON FIRE	121.600 Non-ATS Frequency. DOC 25 NM/4000 FT.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGHI AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.97°E (2027)	ISN	110.750 MHz	HO	505631.66N 0012140.80W		(RWY 20)
ILS/GP	ISN	330.050 MHz	HO	505718.54N 0012120.66W		3.1° ILS Ref Datum Hgt 51 FT.
VOR/DME 0.98°E (2027) 0.8°E (2024)	SAM	80Y 113.350 MHz	H24 Hours of operation for aerodrome purposes: HO	505718.90N 0012042.20W	64 FT	VOR DOC: 20 NM/50,000 FT (35 NM/ 50,000 FT in Sector R249-084 and 40 NM/50,000 FT in Sector R359-034). DME DOC: 100 NM/50,000 FT (150 NM/50,000 FT in Sector R224-314). On R202 VOR flag alarms and DME unlocks may be experienced at ranges exceeding 30 NM below 8000 FT.

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	ISN	44Y 110.750 MHz	HO	505718.72N 0012121.75W	65 FT	(RWY 20) DME ILS freq paired with I-SN. Zero range indicated at THR of Runway 20 only.
NDB (L) 0.97°E (2027)	EAS	391.500 kHz	HO	505718.10N 0012121.95W		On AD. Range 15 NM.

EGHI AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of the aerodrome is subject to compliance with the provisions of a document entitled 'Conditions of Use'. Copies of this document are available on request to the aerodrome operator.

b) Use of aerodrome by General Aviation, Military and non-scheduled flights subject to prior permission via Handling Agent (refer AD 2.4) or Airside Operations 023-80627102.

c) Non Chapter 3 aircraft are not permitted to use the aerodrome.

d) Use of the aerodrome by certain jet aircraft in the 'medium/heavy' wake turbulence categories is prohibited. Advice may be obtained from the Airport Duty Manager, Tel: 023-80627113.

e) The operator of an aircraft carrying dangerous or hazardous cargo must notify the Airport Duty Manager, Tel: 023-80627113 prior to the arrival of the aircraft or before loading of cargo prior to departure from the aerodrome.

f) For safety and security reasons occupants of General Aviation aircraft are required to use airport ground transportation. After arrival crew and passengers are to remain at the aircraft until arrival of transportation. Departing crew and passengers are provided transportation from the Terminal Building to the aircraft.

g) The aircraft commander is to ensure that passengers and crew remain with the aircraft unless they are escorted.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

a) Southampton Airport is not equipped for CAT II/III operations, however Low Visibility Procedures are used to protect CAT 1 operations.

b) Low Visibility Procedures will commence when RVR/Met visibility falls to 1000 M or less.

4 WARNINGS

a) A Soft Ground Arrestor Bed is provided to stop aircraft in the event of an overrun on Runway 20. The bed, which is 73 M, is disposed symmetrically about the extended runway centre-line and is twice the runway width. The bed starts 19.5 M beyond the end of the paved surface.

b) Terrain induced turbulence is possible on approach to Runway 02, within 2 NM from touchdown, particularly when strong easterly winds occur.

c) Buildings induced turbulence is possible on approach to Runway 20, within 2 NM from touchdown, when strong surface winds occur.

d) Significant differences may occur between surface wind velocity reported by ATC and actual wind at approximately 200 FT AAL and above.

5 HELICOPTER OPERATIONS

a) All helicopters must land and take-off on the runway.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

a) Use of the aerodrome by training flights is subject to approval from Airside Operations, Tel: 023-80627075.

b) Training flights by helicopters may be permitted. All enquiries to Airport Duty Manager on 023-80627113.

EGHI AD 2.21 NOISE ABATEMENT PROCEDURES

a) Operators of all aircraft arriving or departing from the aerodrome are required to conform to the following procedures, as applicable, notwithstanding that at any time they may be departed from to the extent necessary for avoiding immediate danger or for compliance with instructions from ATC.

b) In order that the least possible noise disturbance is caused in areas surrounding the aerodrome, aircraft operators should ensure that at all times their aircraft conform to the noise abatement techniques laid down for that type of aircraft.

c) Arrivals
Following procedures apply to:

i. All turbo jet aircraft;
ii. all aircraft with a MTOW of 5700 KG or greater;

1. Aircraft flying an ILS approach should at no time descend below 1744 FT AMSL, 1700 FT AGL before intercepting the glide path.

2. Aircraft flying an instrument approach other than ILS, or those aircraft flying a visual approach, should not intercept the appropriate final approach track at a range less than 5 DME SAM, except that aircraft flying a visual approach via the downwind leg should not intercept final approach at less than 2 DME SAM for RWY 20 or 4 DME SAM for RWY 02.

3. Aircraft flying a visual approach should intercept the final approach track at a level not less than that equivalent to a 3° glide path at the intercept range. Final approach should be flown at not less than a nominal 3° glide path.

4. With the exception of the minimum ILS intercept level, nothing herein shall apply to an aircraft authorised by ATC to fly a circling instrument approach procedure.

d) Except as required during normal aircraft operations when flight is immediately intended, or as part of an after landing engine shutdown routine, engine ground running by aircraft is subject to strict control and is prohibited at certain times. Requests for approval must be made to the Airport Duty Manager, Tel: 023-80627113

e) The operation of aircraft auxiliary power units or ground power units should be kept to a minimum consistent with safety.

f) Noise Abatement Procedures (NAP) specified herein are applicable to:

i. All turbo jet aircraft;
ii. all aircraft with a MTOW of 5700 KG or greater;

Take-off Runway	NAP
02	Climb straight ahead until 2.5 DME SAM If VOR SAM is unserviceable, climb straight ahead until 2.5 DME ISN
20	As soon as possible after passing 500 FT ALT, turn right to intercept VOR SAM RDL 215. Maintain RDL 215 until 2000 FT ALT. If VOR SAM is unserviceable, as soon as possible after passing 500 FT ALT, turn right to maintain a track 216 MAG until 2000 FT ALT

g) The NAP specified in (f) may be varied by ATC except for aircraft that do not conform to the provisions of ICAO Annex 16, Vol 1, Chapter 3. If an ATC clearance requires a departure heading other than that specified in (f), the ATC specified heading supersedes that required by the appropriate NAP.

EGHI AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Unless flying a circling approach procedure, circuits shall normally be flown during daylight hours by propeller driven aircraft and helicopters at 1000 FT ALT and turbojet aircraft at 1500 FT ALT. All circuits flown at night shall be flown at 1500 FT ALT.

2 PROCEDURES FOR INBOUND AIRCRAFT

a) Standard Inbound Routes

Full routeings are published in the UK Standard Route Document (SRD). Aircraft inbound to Southampton from the ATS Route network will be routed on the designated Standard Arrival Routes. The Standard Arrival Routes are published in AD 2-EGHI-7-1/4.

b) Holding Procedures

Holding patterns are as follows:

Main Stacks	Holding
Southampton NDB(L) EAS (Lowest level 2000 FT ALT)	Holding axis 017° MAG turning right at the facility.
Southampton VOR SAM (Lowest level 2000 FT ALT)	Holding axis 029° MAG turning right at the facility.
SIERRA (Lowest level 2000 FT ALT)	Holding fix SAM VOR/DME RDL 209°/D8 on an axis of 029° MAG, Turning right at fix, limiting DME SAM D11.
NOVEMBER (Lowest level 2000 FT ALT)	Holding fix SAM VOR/DME RDL 002°/D7.2 on an axis of 182° MAG, Turning left at fix, limiting DME SAM D11.
NEDUL (Lowest level 4000 FT ALT)	Holding fix SAM VOR/DME 204°/19 NM limiting DME SAM D24 on an axis of 024° MAG, turning right at the fix.

3 PROCEDURES FOR OUTBOUND AIRCRAFT

a) The initial departures routes are shown below – full routeings are published in the UK Standard Route Document (SRD). These routes may be varied at the discretion of ATC (e.g. to offer more direct routeing when the traffic situation permits). **Pilots must adhere to the Noise Abatement Procedures (NAP) detailed in EGHI AD 2.21 before turning onto the specified route.**

*: see also UK Standard Route Document

Departing to	Runway	Via	Route*
North	02, 20	Q41	Q41 - NORRY **(Note 1)**
Northwest	02, 20	Y321/N14/Q63	Y321 - NUBRI - N14 - HEKXA/Y321 - NUBRI - DCT - KENET **(Note 1)**
East	02, 20	GWC	GWC
South	02, 20	Q41/Z171	NEDUL - Q41/Z171 **(Note 2)**
West **(Note 3)**	02, 20	FIR	As directed by ATC

Note 1: *Right turn from end of NAP Runway 20.*

Note 2: *Left turn from end of NAP Runway 02.*

Note 3: *There is no contiguous Controlled Airspace to the west of the Solent CTA. Departing aircraft intending to join the ATS Route network will leave controlled airspace at the Solent CTA boundary. Unless prior arrangements have been made by the aircraft operator with another ATS provider, the aircraft commander is responsible for obtaining a service outside controlled airspace.*

4 RADIO COMMUNICATIONS FAILURE PROCEDURES

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1 paragraph 3.4.

b) The routes to be used when leaving the CTR in accordance with the procedures at ENR 1.1 paragraph 3.4 are shown in the table below; the route to be followed is dependent on the position of the aircraft at the time the decision to leave the Airspace is made.

Position at time of decision	Route
Southampton VOR/DME SAM	Track 295°(T)
Southampton NDB(L) EAS	Track 295°(T)

5 Flights Engaged in Instrument Route training - Flow Management Requirements

a) See EGHH AD 2.22, paragraph 4.

6 Visual Reference Points (VRP)

a) VFR traffic requesting transit of the Southampton CTR routeing west-east or east-west can expect clearance subject to traffic as follows:

West Route:	Bishops Waltham VRP - Southampton VOR VRP - Romsey VRP;
East Route:	Romsey VRP - Southampton VOR VRP - Bishops Waltham VRP.

Transit will be subject to ATC clearance.

b) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

7 Frequency Monitoring Code (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Southampton CTR/Solent CTA, within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Solent Radar frequency, 120.230 MHz, are encouraged to select SSR code 7011.

504541N 0011735W - 505302N 0005800W -
505836N 0005856W - 510648N 0010232W -
511031N 0012021W - 510128N 0013420W -
505442N 0013925W - 504229N 0013301W -
504541N 0011735W.

b) Selection of 7011 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Southampton CTR/Solent CTA at all times.

c) Whilst squawking 7011 pilots should be aware that Solent Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.

d) When a pilot ceases to maintain a listening watch, code 7011 shall be deselected.

EGHI AD 2.23 ADDITIONAL INFORMATION

a) Solent/Southampton Radar and Southampton Tower may be provided as a combined function. Periods when active will be notified by ATIS. SRA not available.

EGHI AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHI-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGHI-2-2
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGHI-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGHI-5-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) BUGUP 1S CPT 1S UMBUR 2S - ICAO
AD 2.EGHI-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) COWLY 1S - ICAO
AD 2.EGHI-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) ELDAX 1S - ICAO
AD 2.EGHI-7-3
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) THRED 1S - ICAO
AD 2.EGHI-7-4
STANDARD INSTRUMENT ARRIVAL CODING TABLES - BUGUP 1S CPT 1S UMBUR 2S COWLY 1S
AD 2.EGHI-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES ELDAX 1S THRED 1S
AD 2.EGHI-7-6
RNAV HOLD CODING TABLES NEDUL PEPIS RUDMO SAM
AD 2.EGHI-7-7
INSTRUMENT APPROACH CHART RNP RWY 02 (CAT A,B,C) - ICAO
AD 2.EGHI-8-1
INSTRUMENT APPROACH CHART VOR/DME RWY 02 (CAT A,B,C) - ICAO
AD 2.EGHI-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 02 (CAT A,B,C) - ICAO
AD 2.EGHI-8-3
INSTRUMENT APPROACH CHART (IAF VOR SAM) ILS/DME RWY 20 (CAT A,B,C) - ICAO
AD 2.EGHI-8-4
INSTRUMENT APPROACH CHART (IAF VOR SAM) LOC/DME RWY 20 (CAT A,B,C) - ICAO
AD 2.EGHI-8-5

INSTRUMENT APPROACH CHART (IAF NDB(L) EAS) ILS/DME RWY 20 (CAT A,B,C) - ICAO
AD 2.EGHI-8-6
INSTRUMENT APPROACH CHART (IAF NDB(L) EAS) LOC/DME RWY 20 (CAT A,B,C) - ICAO
AD 2.EGHI-8-7
INSTRUMENT APPROACH CHART VOR/DME RWY 20 (CAT A,B) - ICAO
AD 2.EGHI-8-8
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 20 (CAT A,B,C) - ICAO
AD 2.EGHI-8-9
INSTRUMENT APPROACH CHART VOR/DME 181° TO AERODROME (CAT C) - ICAO
AD 2.EGHI-8-10
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 02
AD 2.EGHI-8-11

EGHI AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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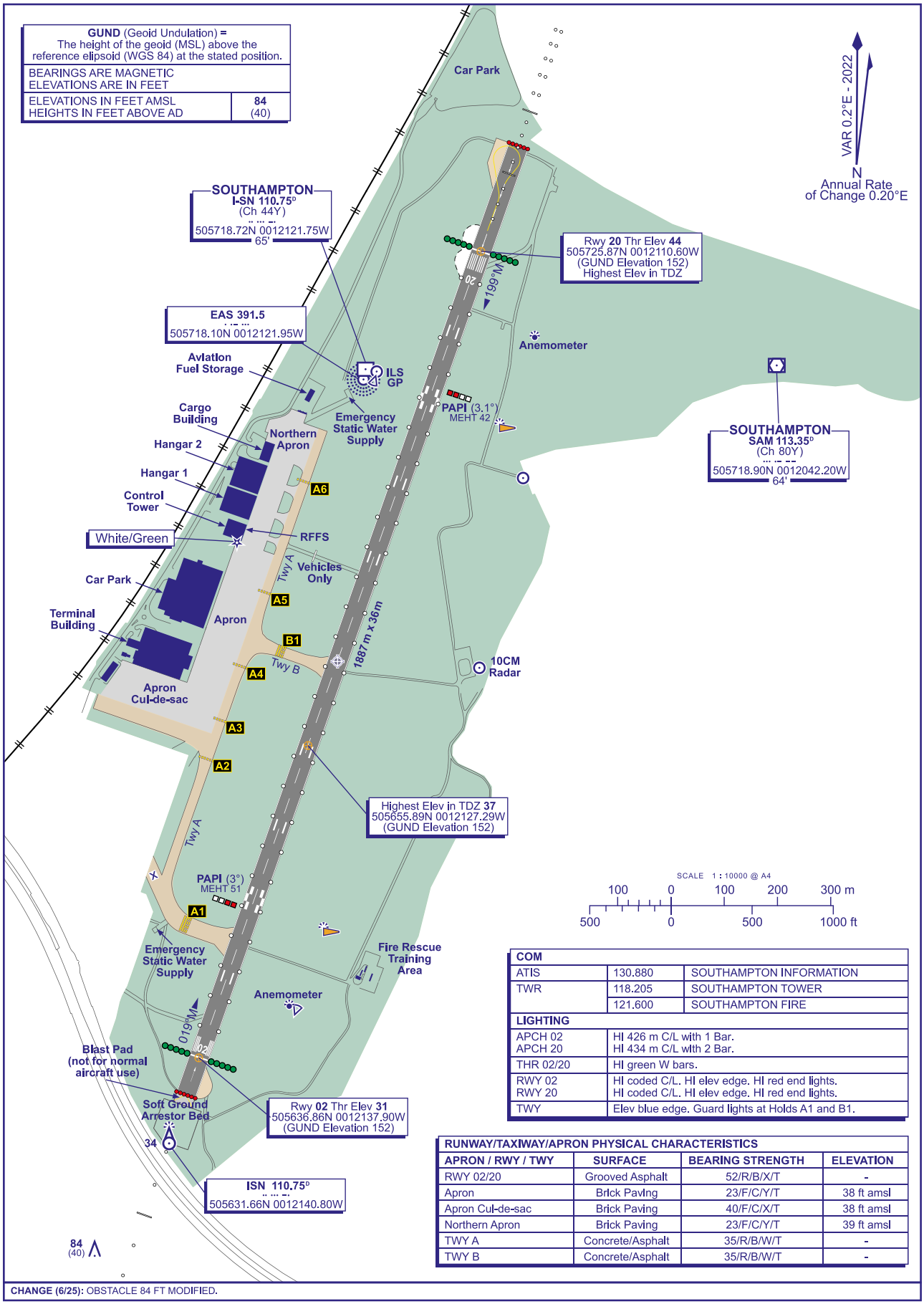
AERODROME CHART - ICAO

ARP 505701N 0012124W | AD ELEV 44 ft

SOUTHAMPTON
EGHI



COM		
ATIS	130.880	SOUTHAMPTON INFORMATION
TWR	118.205	SOUTHAMPTON TOWER
	121.600	SOUTHAMPTON FIRE
LIGHTING		
APCH 02 APCH 20	HI 426 m C/L with 1 Bar. HI 434 m C/L wth 2 Bar.	
THR 02/20	HI green W bars.	
RWY 02 RWY 20	HI coded C/L. HI elev edge. HI red end lights. HI coded C/L. HI elev edge. HI red end lights.	
TWY	Elev blue edge. Guard lights at Holds A1 and B1.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS

APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 02/20	Grooved Asphalt	52/R/B/X/T	-
Apron	Brick Paving	23/F/C/Y/T	38 ft amsl
Apron Cul-de-sac	Brick Paving	40/F/C/X/T	38 ft amsl
Northern Apron	Brick Paving	23/F/C/Y/T	39 ft amsl
TWY A	Concrete/Asphalt	35/R/B/W/T	-
TWY B	Concrete/Asphalt	35/R/B/W/T	-

CHANGE (6/25): OBSTACLE 84 FT MODIFIED.

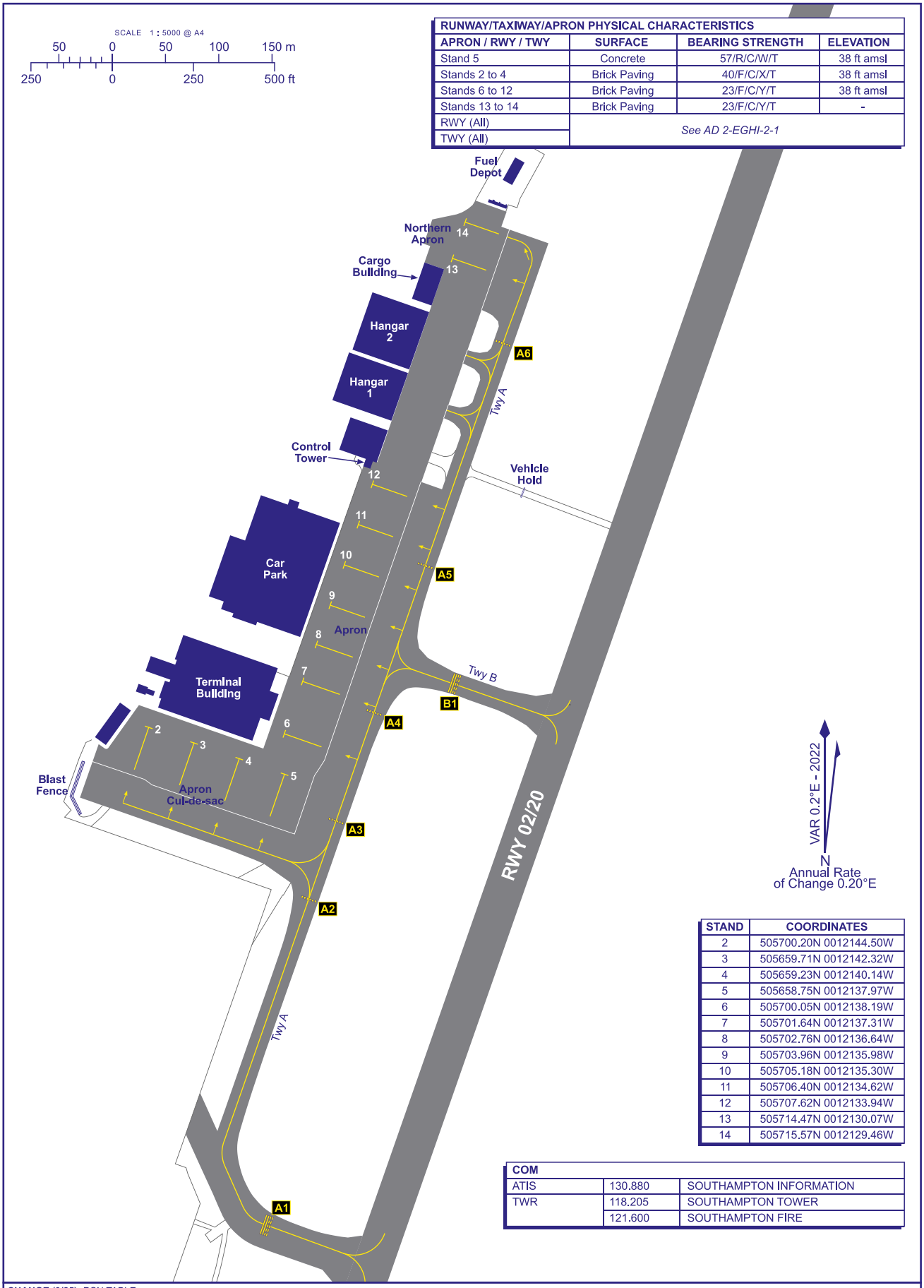
AERO INFO DATE 25 MAR 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 505701N 0012124W

AD ELEV 44 ft

SOUTHAMPTON
EGHI



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
Stand 5	Concrete	57/R/C/W/T	38 ft amsl
Stands 2 to 4	Brick Paving	40/F/C/X/T	38 ft amsl
Stands 6 to 12	Brick Paving	23/F/C/Y/T	38 ft amsl
Stands 13 to 14	Brick Paving	23/F/C/Y/T	-
RWY (All)	*See AD 2-EGHI-2-1*		
TWY (All)			

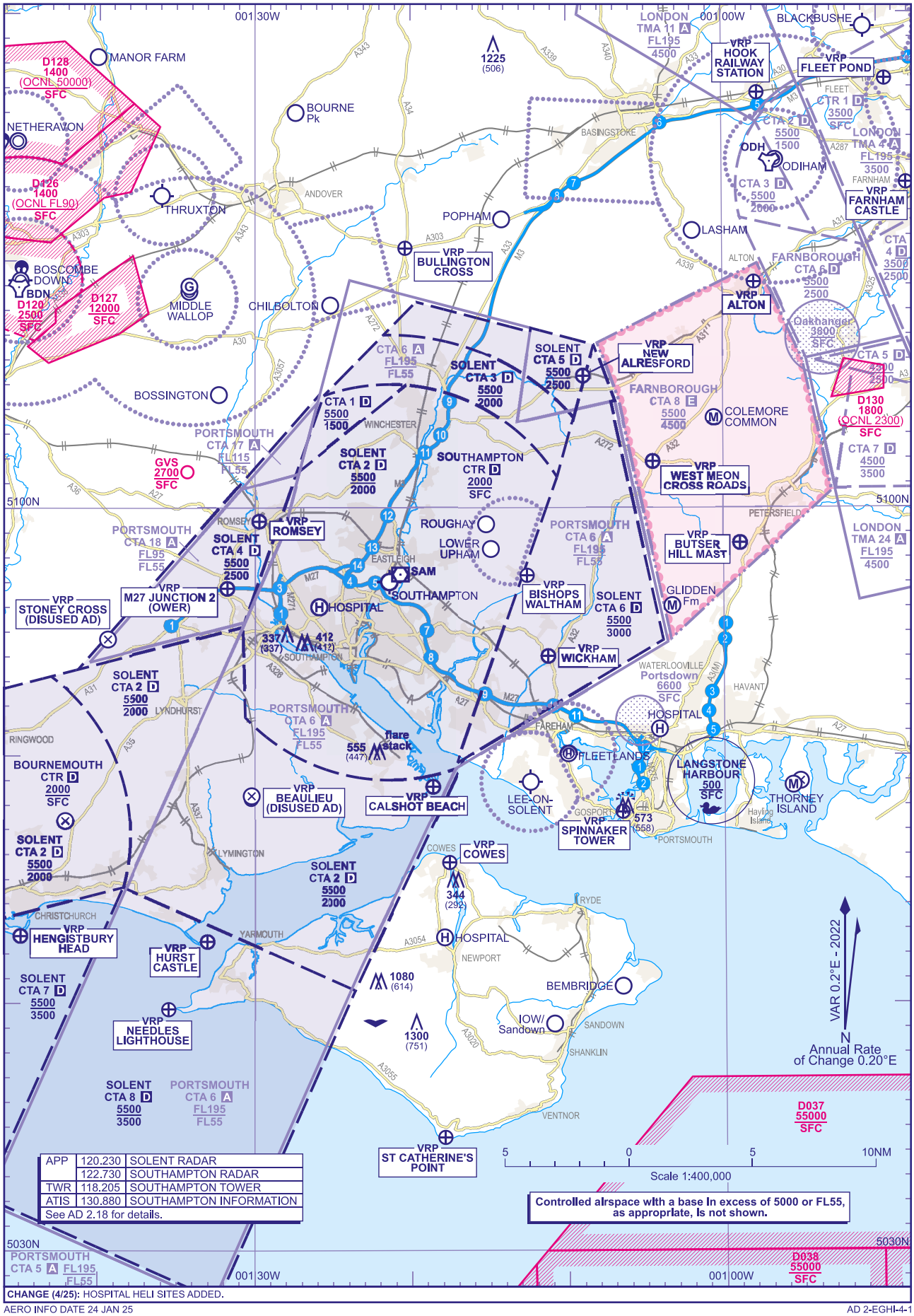
STAND	COORDINATES
2	505700.20N 0012144.50W
3	505659.71N 0012142.32W
4	505659.23N 0012140.14W
5	505658.75N 0012137.97W
6	505700.05N 0012138.19W
7	505701.64N 0012137.31W
8	505702.76N 0012136.64W
9	505703.96N 0012135.98W
10	505705.18N 0012135.30W
11	505706.40N 0012134.62W
12	505707.62N 0012133.94W
13	505714.47N 0012130.07W
14	505715.57N 0012129.46W

COM		
ATIS	130.880	SOUTHAMPTON INFORMATION
TWR	118.205	SOUTHAMPTON TOWER
	121.600	SOUTHAMPTON FIRE

CHANGE (9/25): PCN TABLE.

AERO INFO DATE 24 JUN 25

CONTROL ZONE AND CONTROL AREA CHART — SOUTHAMPTON



CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 24 JAN 25

AD 2-EGHI-4-1

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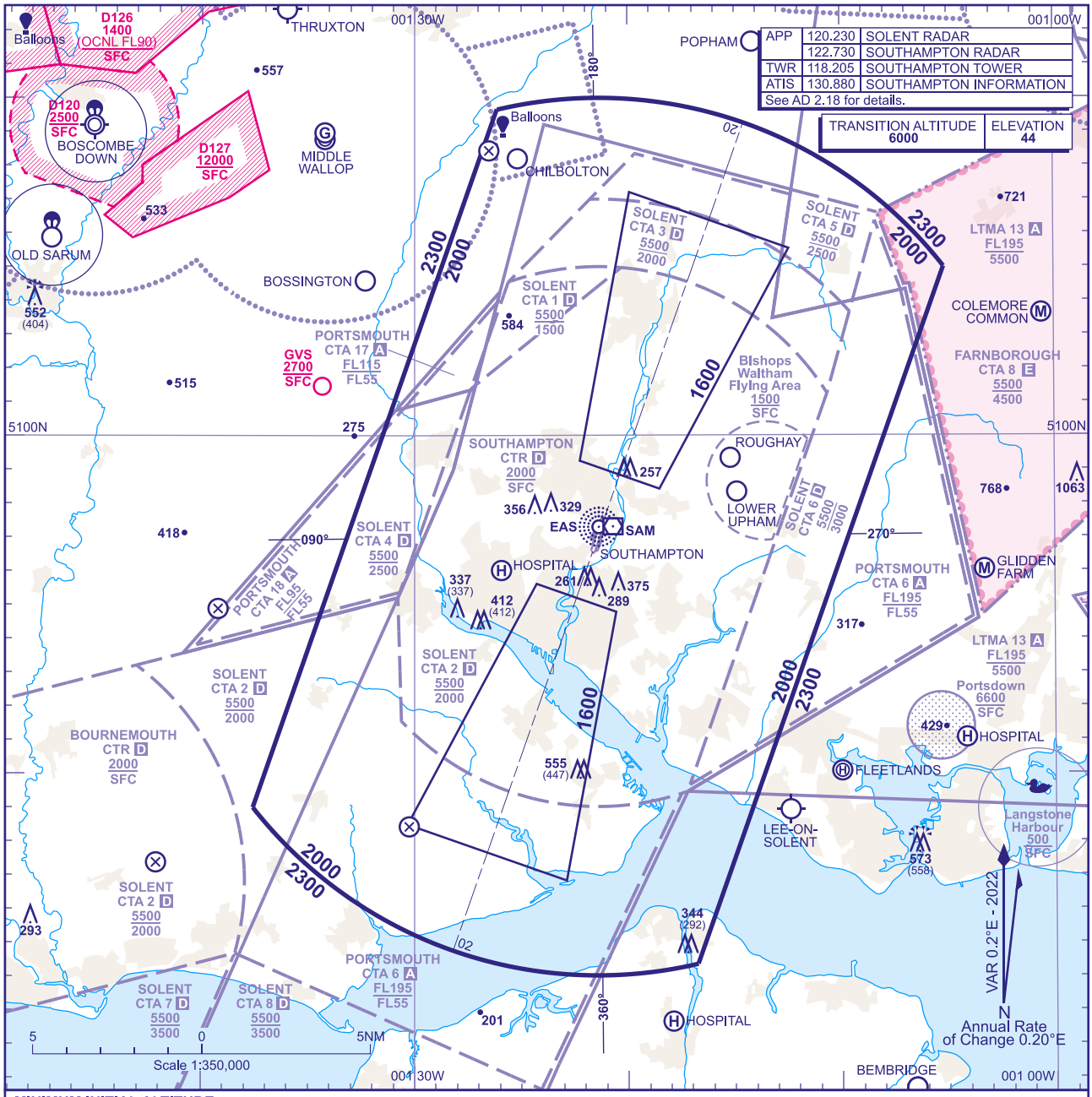
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 947
HEIGHTS IN FEET AGL (498)

SOUTHAMPTON



MINIMUM INITIAL ALTITUDE
Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is **2000** in the sector defined by the lateral limits; 504900N 0013734W - 510940N 0012608W thence clockwise by an arc of a circle radius 13NM centred on 505701N 0012124W to 510500N 0010510W - 504422N 0011645W thence clockwise by an arc of a circle radius 13NM centred on 505701N 0012124W to 504900N 0013734W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA
The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:
a) within 5NM of the aircraft, and
b) within the sector 15NM ahead of and within 20° either side of the aircraft's track.

LOSS OF COMMUNICATION PROCEDURES
Initial Approach
Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher to **NDB(L) EAS**†.
Intermediate and Final Approach
Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) EAS**†.
† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION
1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA. 5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and Secondary Radar equipment, or exceptionally by only Primary or Secondary Radar equipment.
7. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (4/25): HOSPITAL HELI SITES ADDED.

AERO INFO DATE 24 JAN 25

AD 2-EGHI-5-1

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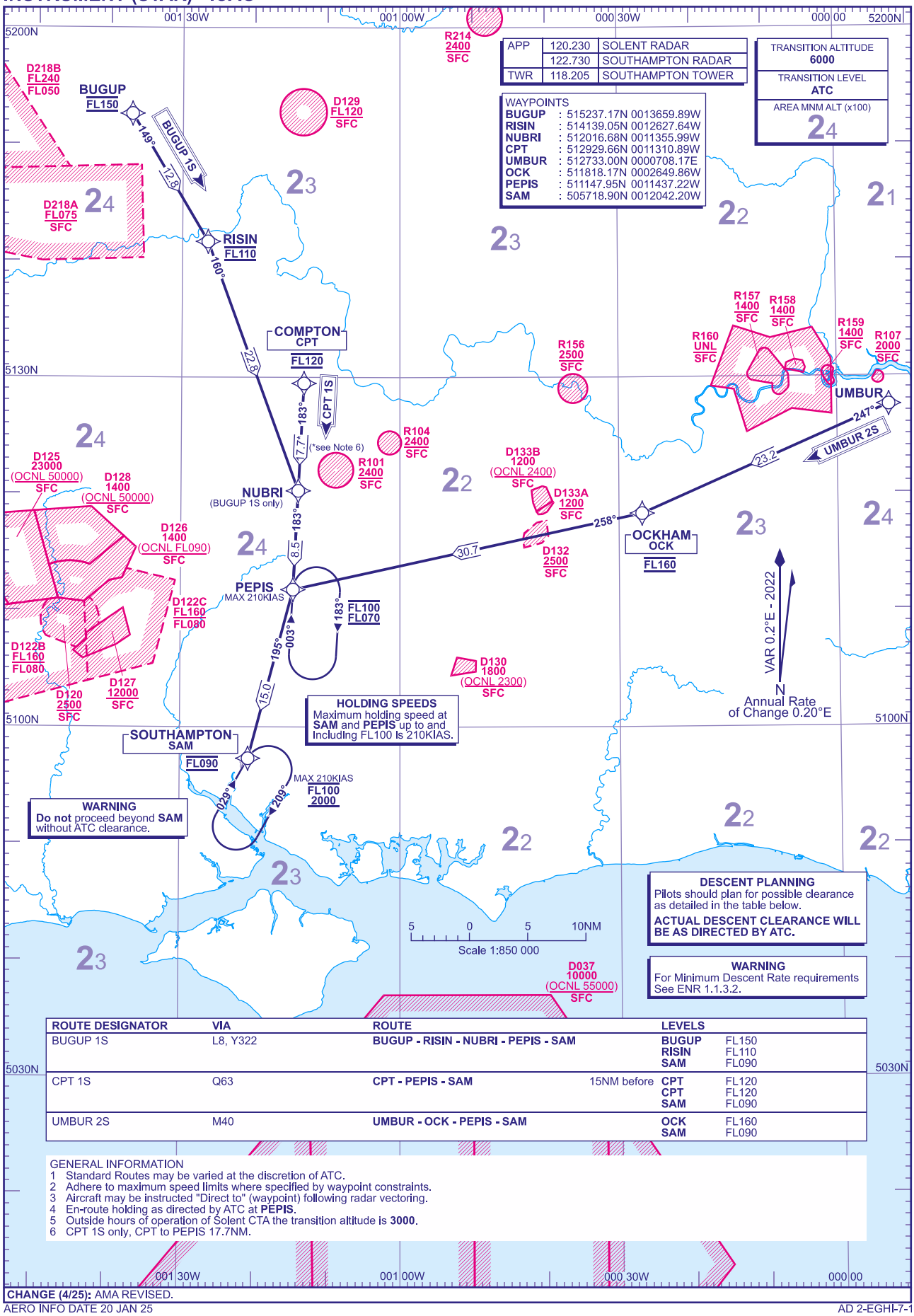
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

SOUTHAMPTON BUGUP 1S CPT 1S UMBUR 2S



ROUTE DESIGNATOR	VIA	ROUTE		LEVELS
BUGUP 1S	L8, Y322	BUGUP - RISIN - NUBRI - PEPIS - SAM		BUGUP FL150 RISIN FL110 SAM FL090
CPT 1S	Q63	CPT - PEPIS - SAM	15NM before	CPT FL120 CPT FL120 SAM FL090
UMBUR 2S	M40	UMBUR - OCK - PEPIS - SAM		OCK FL160 SAM FL090

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
4 En-route holding as directed by ATC at **PEPIS**.
5 Outside hours of operation of Solent CTA the transition altitude is **3000**.
6 CPT 1S only, CPT to PEPIS 17.7NM.

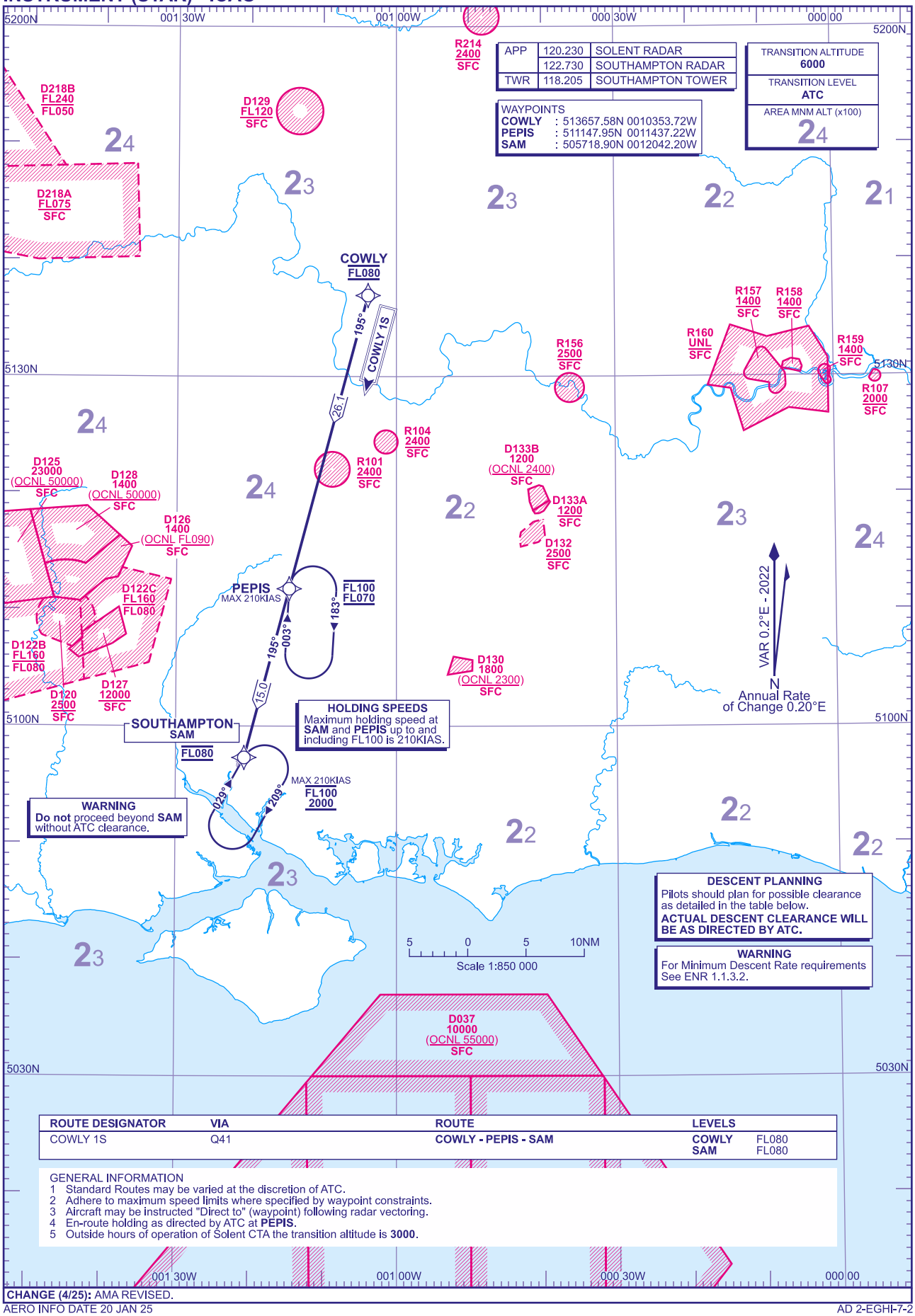
CHANGE (4/25): AMA REVISED.

AERO INFO DATE 20 JAN 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

SOUTHAMPTON COWLY 1S



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS
COWLY 1S	Q41	COWLY - PEPIS - SAM	COWLY FL080 SAM FL080

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
4 En-route holding as directed by ATC at **PEPIS**.
5 Outside hours of operation of Solent CTA the transition altitude is **3000**.

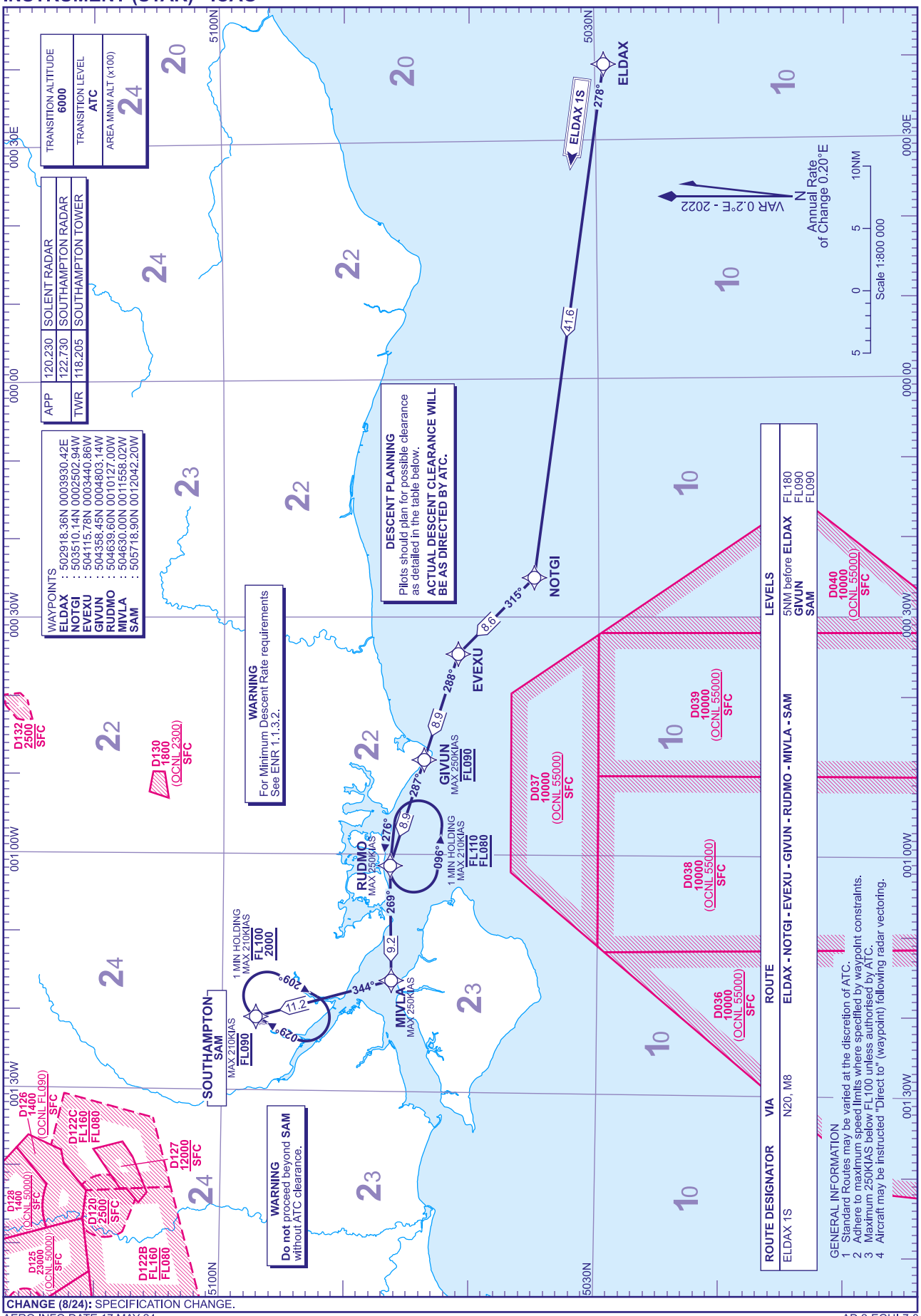
CHANGE (4/25): AMA REVISED.

AERO INFO DATE 20 JAN 25

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

SOUTHAMPTON ELDAX 1S



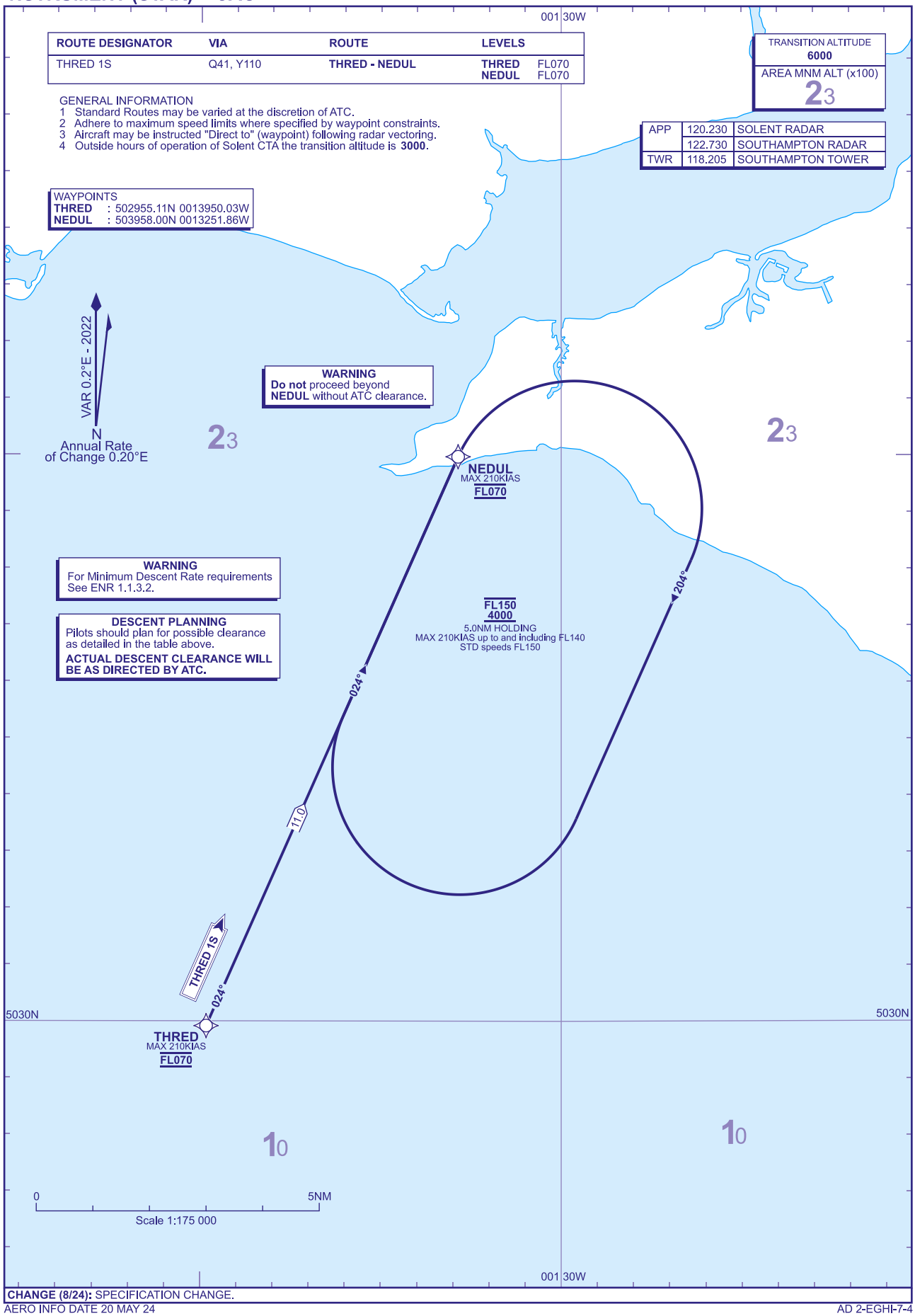
CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 17 MAY 24

AD 2-EGHI-7-3

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

SOUTHAMPTON THRED 1S



CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 20 MAY 24

Standard Instrument Arrival Coding Tables

SOUTHAMPTON BUGUP 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BUGUP1S	001	IF	BUGUP	515237.17N 0013659.89W	N	-	-	-	-	FL150	-	RNAV5
BUGUP1S	002	TF	RISIN	514139.05N 0012627.64W	N	149° (149.1°)	0.2	12.8	RIGHT	FL110	-	RNAV5
BUGUP1S	003	TF	NUBRI	512016.68N 0011355.99W	N	160° (159.8°)	0.2	22.8	RIGHT	-	-	RNAV5
BUGUP1S	004	TF	PEPIS	511147.95N 0011437.22W	N	183° (182.9°)	0.2	8.5	RIGHT	-	-210	RNAV5
BUGUP1S	005	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.2	15.0	-	FL090	-210	RNAV5

SOUTHAMPTON CPT 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
CPT1S	001	IF	CPT	512929.66N 0011310.89W	N	-	-	-	-	FL120	-	RNAV5
CPT1S	002	TF	PEPIS	511147.95N 0011437.22W	N	183° (182.9°)	0.2	17.7	RIGHT	-	-210	RNAV5
CPT1S	003	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.2	15.0	-	FL090	-210	RNAV5

SOUTHAMPTON UMBUR 2S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
UMBUR2S	001	IF	UMBUR	512733.00N 0000708.17E	N	-	-	-	-	-	-	RNAV5
UMBUR2S	002	TF	OCK	511818.17N 0002649.86W	N	247° (246.7°)	0.2	23.2	RIGHT	FL160	-	RNAV5
UMBUR2S	003	TF	PEPIS	511147.95N 0011437.22W	N	258° (258.1°)	0.2	30.7	LEFT	-	-210	RNAV5
UMBUR2S	004	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.2	15.0	-	FL090	-210	RNAV5

SOUTHAMPTON COWLY 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
COWLY1S	001	IF	COWLY	513657.58N 0010353.72W	N	-	-	-	-	FL080	-	RNAV5
COWLY1S	002	TF	PEPIS	511147.95N 0011437.22W	N	195° (195.0°)	0.2	26.1	-	-	-210	RNAV5
COWLY1S	003	TF	SAM	505718.90N 0012042.20W	N	195° (194.9°)	0.2	15.0	-	FL080	-210	RNAV5

CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 16 MAY 24

Standard Instrument Arrival Coding Tables

SOUTHAMPTON ELDAX 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
ELDAX1S	001	IF	ELDAX	502918.36N 0003930.42E	N	-	-	-	-	-	-	RNAV5
ELDAX1S	002	TF	NOTGI	503510.14N 0002502.94W	N	278° (278.5°)	0.2	41.6	RIGHT	-	-	RNAV5
ELDAX1S	003	TF	EVEXU	504115.78N 0003440.86W	N	315° (314.9°)	0.2	8.6	LEFT	-	-	RNAV5
ELDAX1S	004	TF	GIVUN	504358.45N 0004803.14W	N	288° (287.8°)	0.2	8.9	-	FL090	-250	RNAV5
ELDAX1S	005	TF	RUDMO	504639.60N 0010127.00W	N	287° (287.6°)	0.2	8.9	LEFT	-	-250	RNAV5
ELDAX1S	006	TF	MIVLA	504630.00N 0011558.02W	N	269° (269.1°)	0.2	9.2	RIGHT	-	-250	RNAV5
ELDAX1S	007	TF	SAM	505718.90N 0012042.20W	N	344° (344.5°)	0.2	11.2	-	FL090	-210	RNAV5

SOUTHAMPTON THRED 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
THRED1S	001	IF	THRED	502955.11N 0013950.03W	N	-	-	-	-	FL070	-210	RNAV5
THRED1S	002	TF	NEDUL	503958.00N 0013251.86W	N	024° (023.8°)	0.2	11.0	-	FL070	-210	RNAV5

CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 16 MAY 24

RNAV Hold Coding Tables

SOUTHAMPTON NEDUL Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NEDUL	-	-	NEDUL	503958.00N 0013251.86W	Y	024° (023.9°)	0.2	5.0 NM	RIGHT	-FL150 +4000	-210*	RNAV5

*up to and including FL140
std speed FL150

SOUTHAMPTON PEPIS Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
PEPIS	-	-	PEPIS	511147.95N 0011437.22W	Y	003° (003.5°)	0.2	1 MIN	RIGHT	-FL100 +FL070	-210	RNAV5

SOUTHAMPTON RUDMO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
RUDMO	-	-	RUDMO	504639.60N 0010127.00W	Y	276° (275.9°)	0.2	1 MIN	LEFT	-FL110 +FL080	-210	RNAV5

SOUTHAMPTON SAM Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SAM	-	-	SAM	505718.90N 0012042.20W	Y	029° (029.5°)	0.2	1 MIN	RIGHT	-FL100 +2000	-210	RNAV5

CHANGE (8/24): SPECIFICATION CHANGE.
AERO INFO DATE 22 MAY 24

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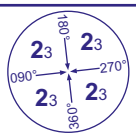
INSTRUMENT APPROACH CHART - ICAO

SOUTHAMPTON RNP RWY 02
(ACFT CAT A,B,C)



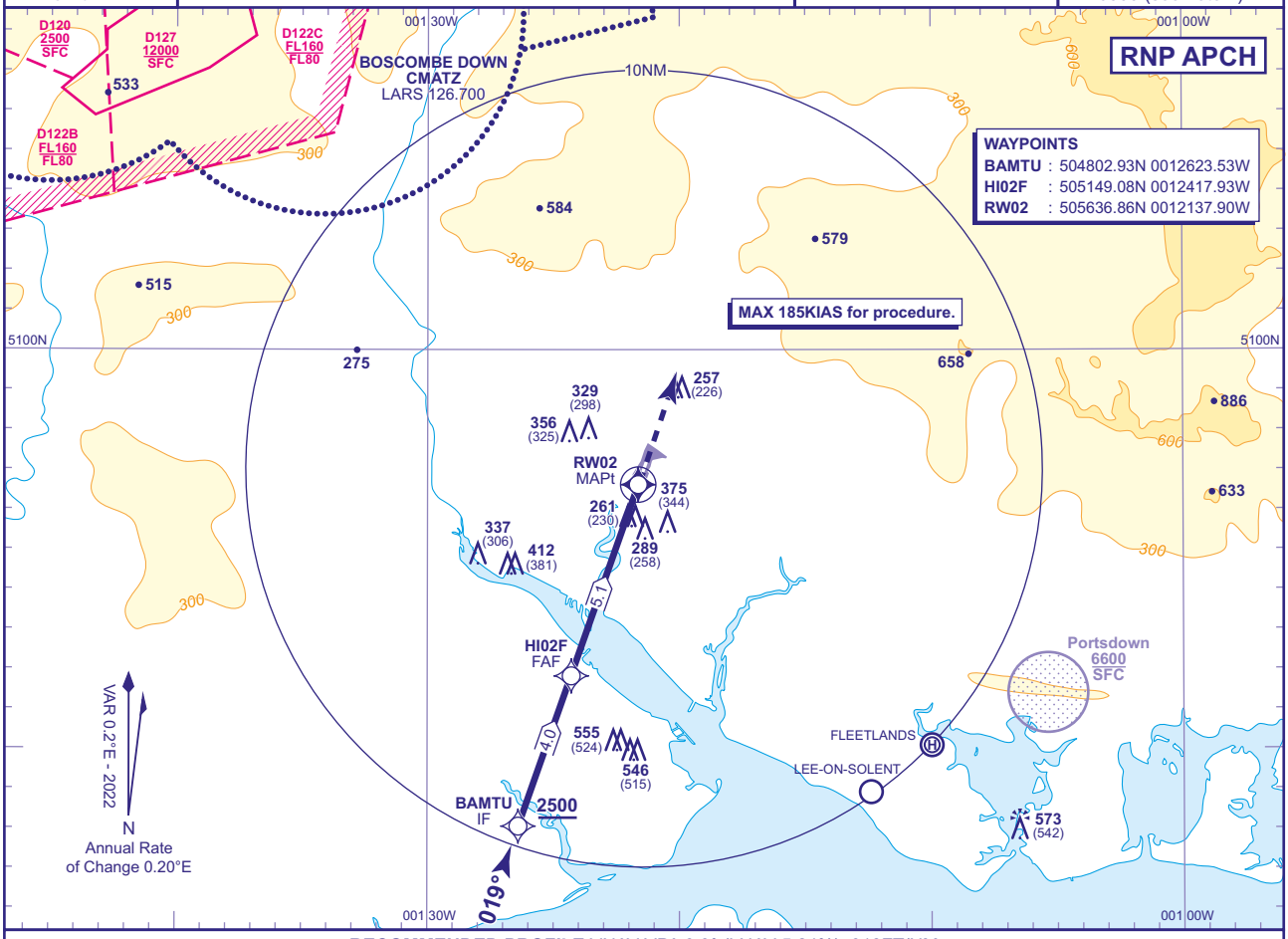
MSA 25NM ARP

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

AD ELEVATION	44
THR ELEVATION	31
OBSTACLE ELEVATION 648 AMSL (617) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

MIN TEMP -10°C

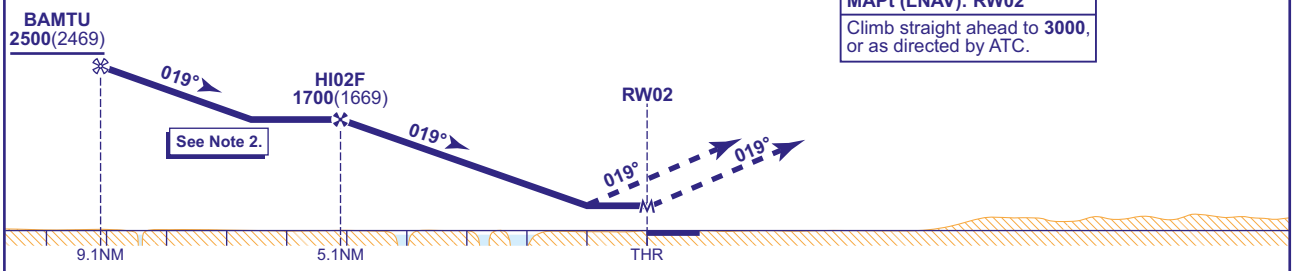
TRANSITION ALTITUDE 6000 (see note 1)



RECOMMENDED PROFILE VNAV VPA 3.0° (LNAV 5.24%), 318FT/NM

NM to RW02	5	4	3	2	1
ALT(HGT)	**1670**(1639)	**1350**(1319)	**1030**(999)	**720**(689)	**400**(369)

TCH 50



MAPt (LNAV): RW02
Climb straight ahead to **3000**, or as directed by ATC.

Aircraft Category		A	B	C
OCA (OCH)	LNAV/VNAV	**510**(479)	**510**(479)	**510**(479)
	LNAV	**530**(499)	**530**(499)	**530**(499)
VM(C)OCA (OCH AAL)	Total Area	**680**(636)	**700**(656)	**890**(846)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.
2 A 3° vertical profile from **BAMTU** to the FAF (**HI02F**) is recommended. An excessive rate of descent may result in leaving controlled airspace.

CHANGE (10/22): OBSTACLES REVISED.

AERO INFO DATE 12 JUL 22

INSTRUMENT APPROACH CHART - ICAO

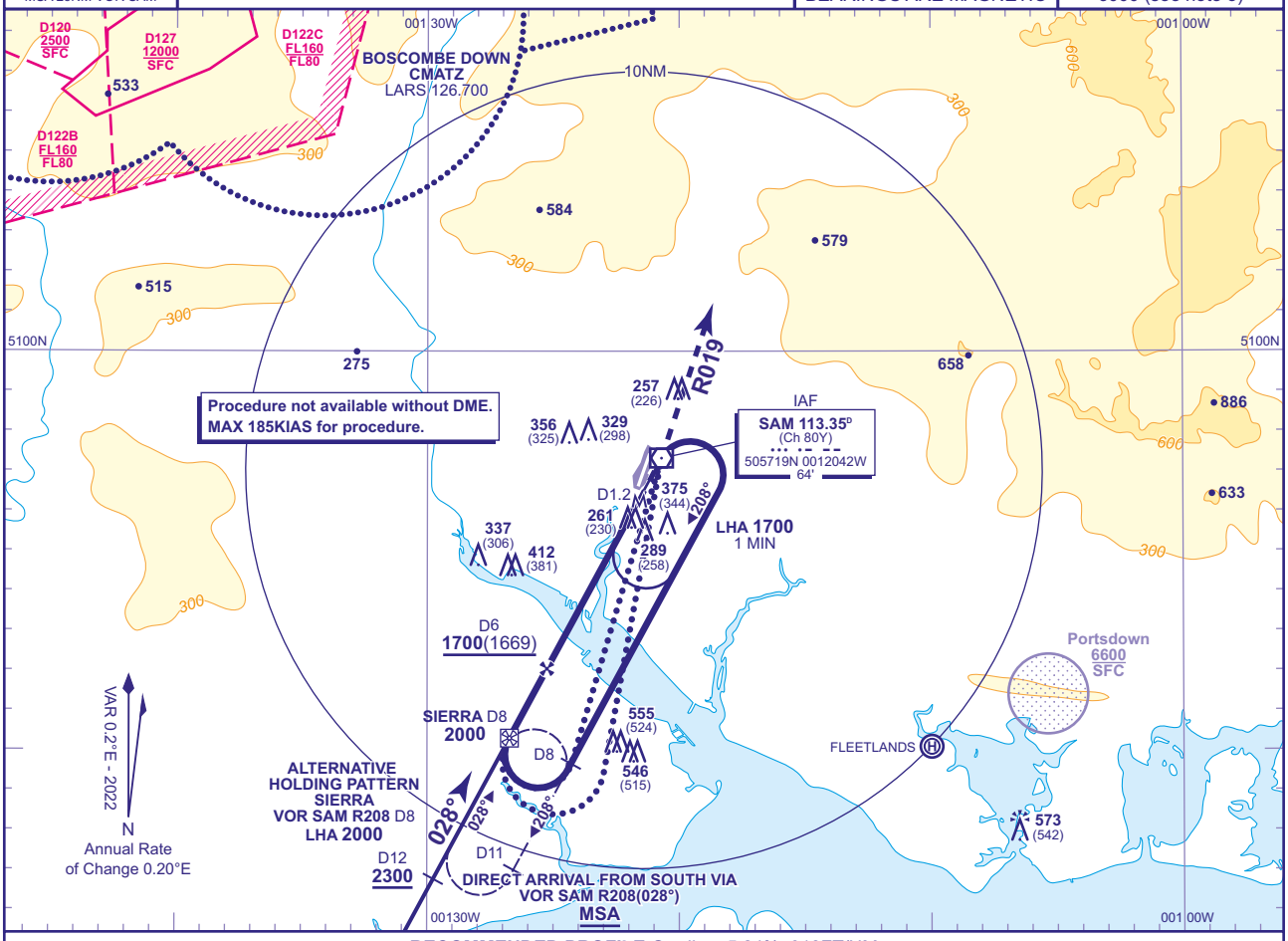
SOUTHAMPTON VOR/DME RWY 02
(ACFT CAT A,B,C)

MSA 25NM VOR SAM

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

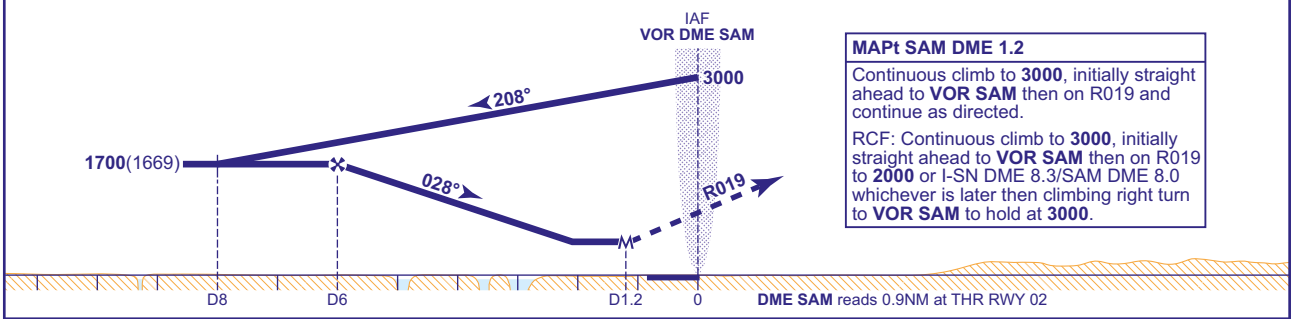
AD ELEVATION	**44**
THR ELEVATION	**31**
OBSTACLE ELEVATION	**648 AMSL** (617) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 3)



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME SAM	6	5	4	3
ALT(HGT)	**1700**(1669)	**1380**(1349)	**1060**(1029)	**740**(709)



MAPt SAM DME 1.2

Continuous climb to **3000**, initially straight ahead to **VOR SAM** then on R019 and continue as directed.

RCF: Continuous climb to **3000**, initially straight ahead to **VOR SAM** then on R019 to **2000** or I-SN DME 8.3/SAM DME 8.0 whichever is later then climbing right turn to **VOR SAM** to hold at **3000**.

Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**Procedure**	**570**(539)	**570**(539)	**570**(539)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(636)	**700**(656)	**890**(846)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE BASE TURN PROCEDURE
Arrival to VOR DME SAM (IAF) at **3000** fly outbound on R197 (CAT A,B); R191 (CAT C) descending to **1700**(1669). At SAM DME D8 base turn right onto extended FAT. When established continue as for main procedure.

ALTERNATIVE PROCEDURE FROM HOLDING PATTERN SIERRA
From holding fix SIERRA inbound (VOR SAM R208 DME 8) at **2000**, descend to cross FAF (SAM DME D6) not below **1700**(1669), then continue as for main procedure.

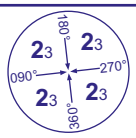
NOTE 1 FAT is offset 10° from RWY C/L and intercepts the extended RWY C/L 1.0NM before the THR.
2 Aircraft will normally be required to hold not lower than **2000**.
3 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (12/24): VOR SAM RECALIBRATED. RADIALS/TRACKS REVISED.

AERO INFO DATE 10 SEP 24 AD 2-EGHI-8-2

INSTRUMENT APPROACH CHART - ICAO

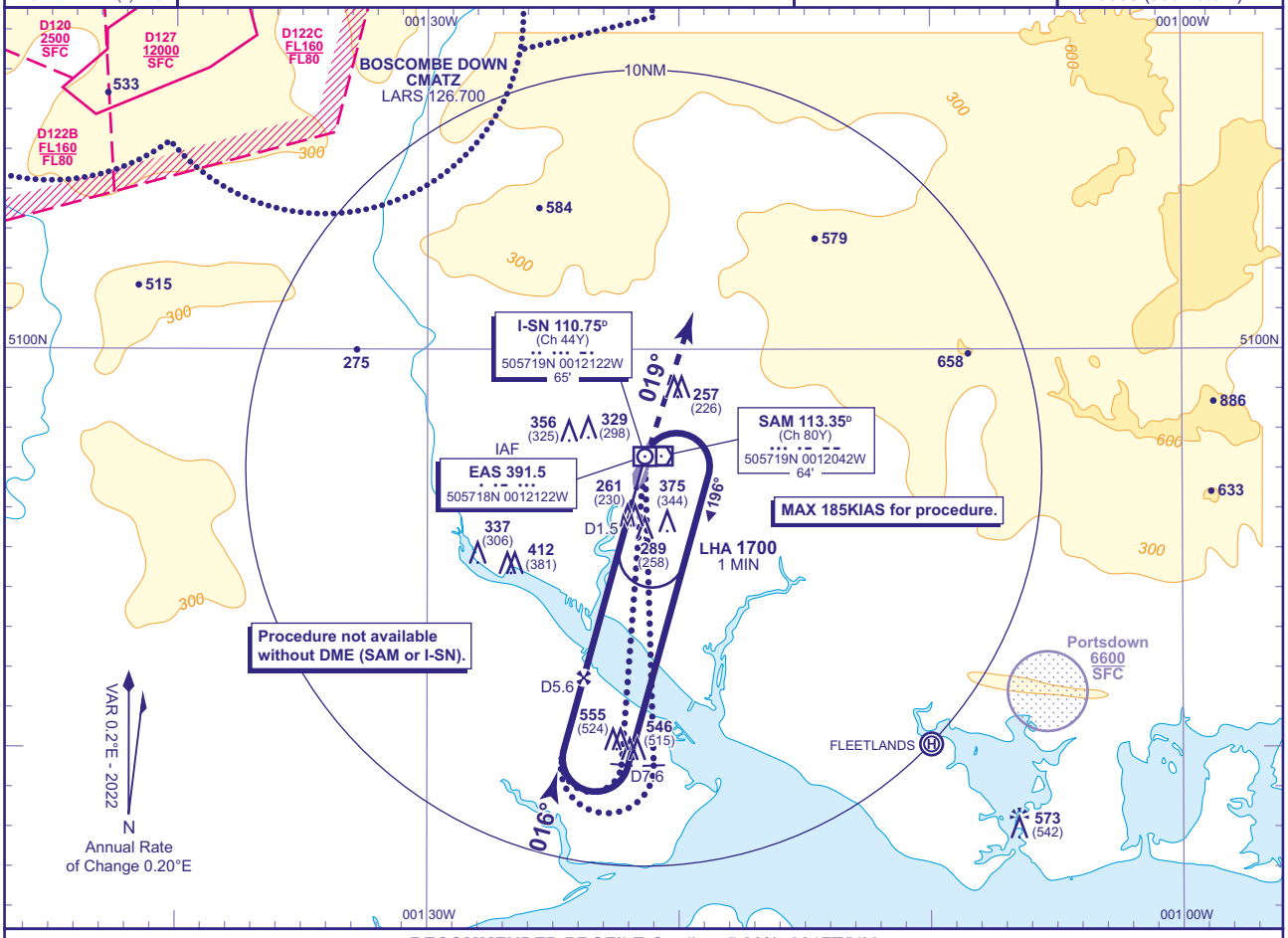
SOUTHAMPTON NDB(L)/DME RWY 02
(ACFT CAT A,B,C)



APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

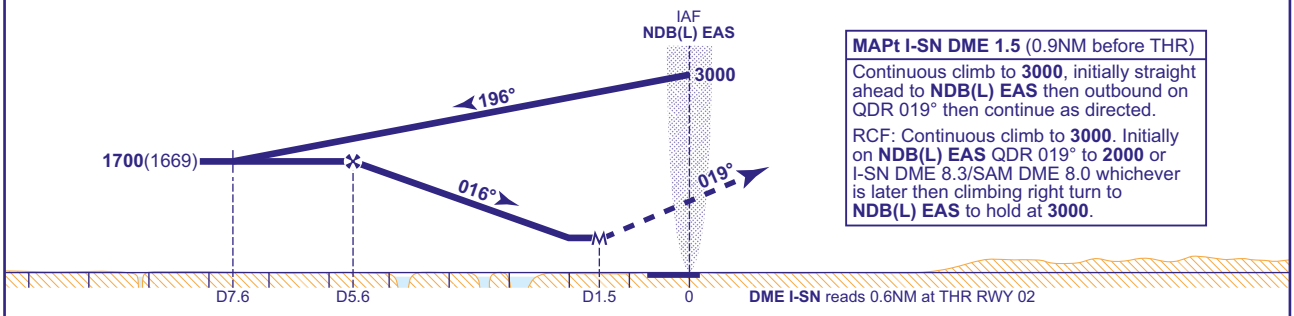
AD ELEVATION	44
THR ELEVATION	31
OBSTACLE ELEVATION	648 AMSL (617) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 4)



RECOMMENDED PROFILE Gradient 5.28%, 321FT/NM

DME I-SN	5	4	3
ALT(HGT)	**1510**(1479)	**1190**(1159)	**870**(839)



MAPt I-SN DME 1.5 (0.9NM before THR)

Continuous climb to **3000**, initially straight ahead to **NDB(L) EAS** then outbound on QDR 019° then continue as directed.

RCF: Continuous climb to **3000**. Initially on **NDB(L) EAS** QDR 019° to **2000** or I-SN DME 8.3/SAM DME 8.0 whichever is later then climbing right turn to **NDB(L) EAS** to hold at **3000**.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**570**(539)	**570**(539)	**570**(539)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(636)	**700**(656)	**890**(846)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	860	750	640	530	430

ALTERNATIVE BASE TURN PROCEDURE
Arrival to NDB(L) EAS (IAF) at **3000** fly outbound on QDR 185° (CAT A,B); QDR 179° (CAT C) descending to **1700**(1669). At I-SN DME D7.6 base turn right onto extended FAT, when established continue as for main procedure.

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 FAT is offset 3° from RWY CL and intersects 0.5NM (I-SN DME 1.1) before THR.
3 Aircraft will normally be required to hold not lower than **2000**.
4 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (8/23): DME NOTE ADDED.

AERO INFO DATE 19 MAY 23

AD 2-EGHI-8-3

INSTRUMENT APPROACH CHART - ICAO

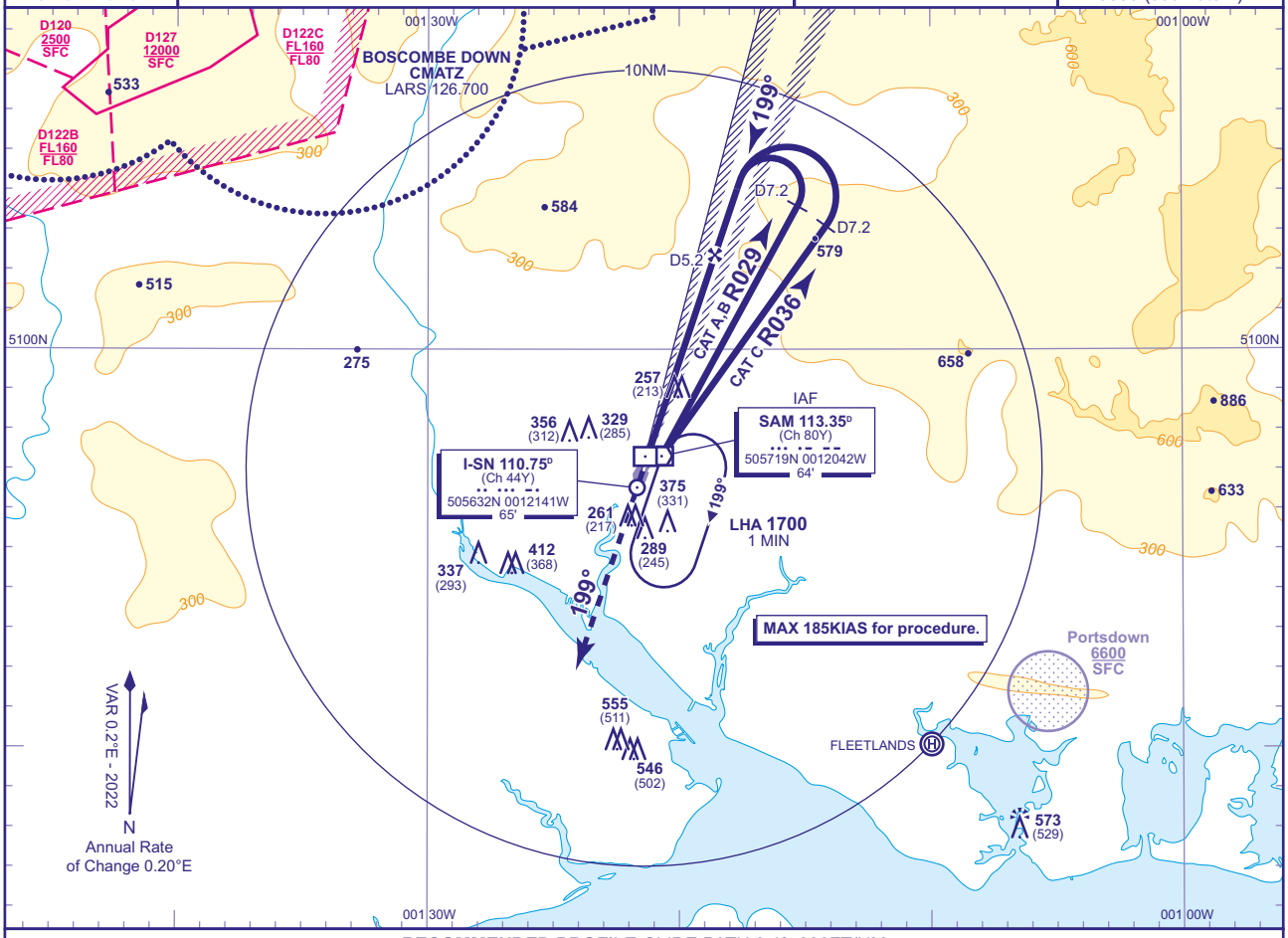
SOUTHAMPTON
(IAF VOR SAM)
ILS/DME
RWY 20
(ACFT CAT A,B,C)

MSA 25NM VOR SAM

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

AD ELEVATION	**44**
THR ELEVATION	**44**
OBSTACLE ELEVATION	**648 AMSL** (604) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 7)



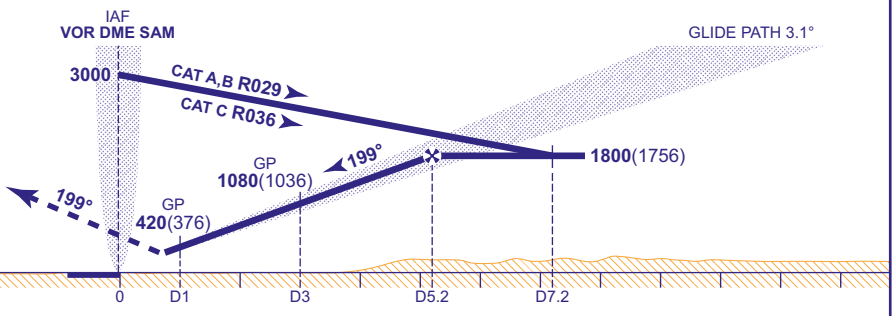
RECOMMENDED PROFILE GLIDE PATH 3.1°, 330FT/NM

DME I-SN	5	4	3	2	1
ALT(HGT)	**1740**(1696)	**1410**(1366)	**1080**(1036)	**750**(706)	**420**(376)

RDH 51

Continuous climb to **3000**, initially straight ahead then as directed.

RCF: Continuous climb to **3000**. Initially straight ahead to **2000** or I-SN DME 7.7 (SAM DME 8) whichever is later then climbing right turn to **VOR SAM** to hold at **3000**.



Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**CAT I**	**219**(175)	**226**(182)	**237**(193)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(636)	**700**(656)	**890**(846)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	880	770	660	550	440

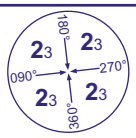
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 DME SAM is situated 0.3NM east of THR RWY 20.
3 DME SAM may be substituted for DME I-SN if required. There are no changes to DME distances when DME SAM is used.
4 In the event of DME being unavailable, radar ranges will be given at 7NM outbound and at the FAP.
5 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn. Aircraft being radar vectored to the LOC may not be provided a period of level flight immediately prior to GP intercept. GP intercept will normally be at **2500**.
6 Aircraft will normally be required to hold not lower than **2000**.
7 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (12/24): VOR SAM RECALIBRATED. RADIALS/TRACKS REVISED.

AERO INFO DATE 10 SEP 24 AD 2-EGHI-8-4

INSTRUMENT APPROACH CHART - ICAO

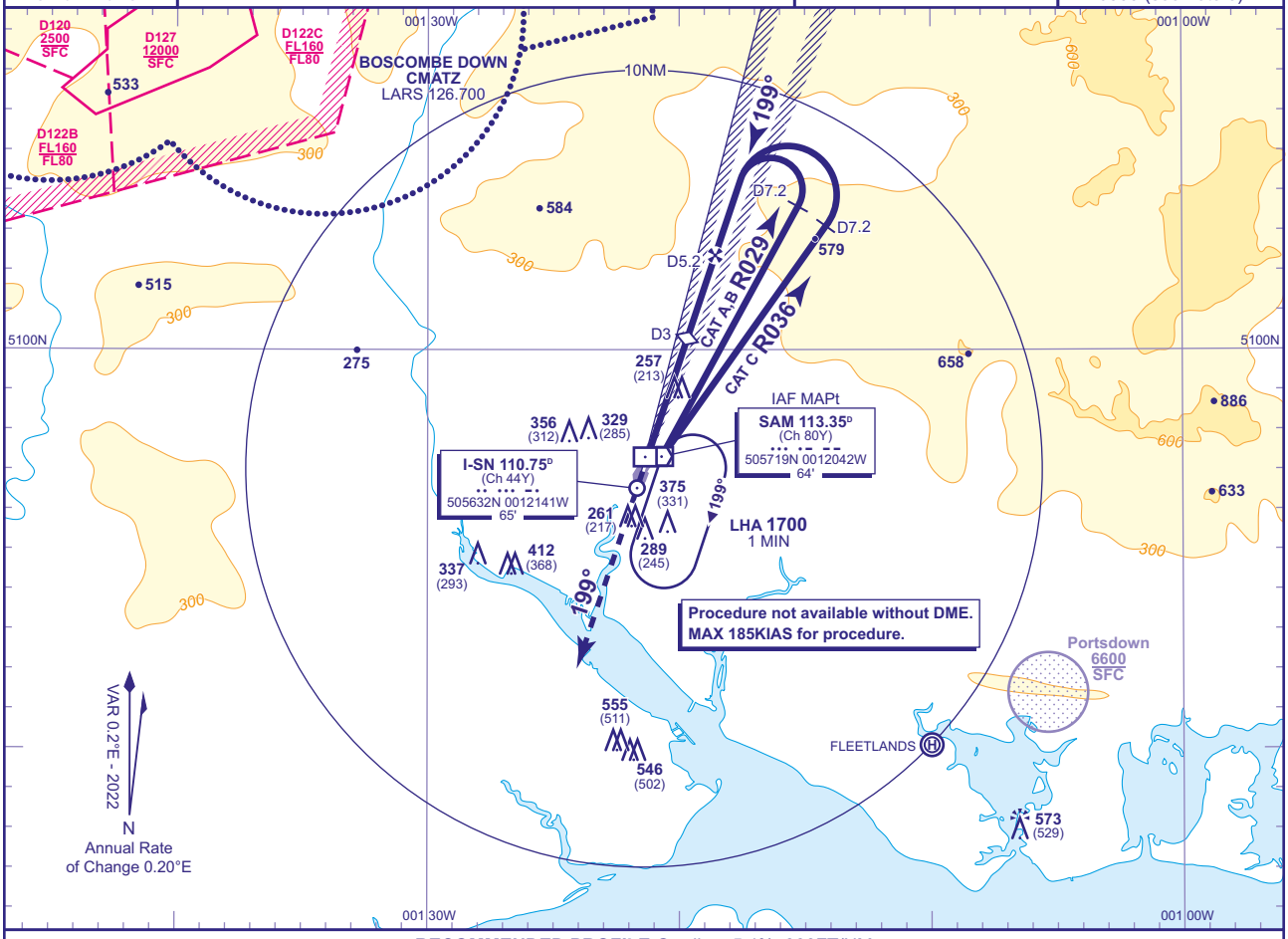
SOUTHAMPTON
(IAF VOR SAM)
LOC/DME
RWY 20
(ACFT CAT A,B,C)



MSA 25NM VOR SAM

APP	120.230	SOLENT RADAR	AD ELEVATION	44
	122.730	SOUTHAMPTON RADAR	THR ELEVATION	44
TWR	118.205	SOUTHAMPTON TOWER	OBSTACLE ELEVATION 648 AMSL (604) (ABOVE THR)	
ATIS	130.880	SOUTHAMPTON INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 6)



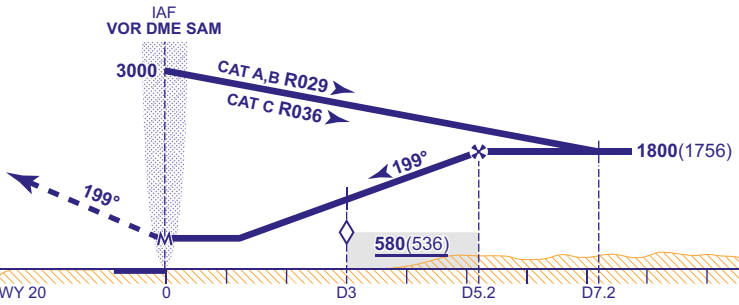
RECOMMENDED PROFILE Gradient 5.4%, 330FT/NM

DME I-SN	5	4	3 **(SDF)**	2
ALT(HGT)	**1740**(1696)	**1410**(1366)	**1080**(1036)	**750**(706)

MAPt VOR SAM

Continuous climb to **3000**, initially straight ahead then as directed.

RCF: Continuous climb to **3000**. Initially straight ahead to **2000** or I-SN DME 7.7 (SAM DME 8) whichever is later then climbing right turn to **VOR SAM** to hold at **3000**.



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**510**(466)	**510**(466)	**510**(466)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(636)	**700**(656)	**890**(846)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	880	770	660	550	440

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 DME SAM is situated 0.3NM east of THR RWY 20.
3 DME SAM may be substituted for DME I-SN if required. There are no changes to DME distances when DME SAM is used.
4 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn. Aircraft being radar vectored to the LOC may not be provided a period of level flight immediately prior to crossing the FAF.
5 Aircraft will normally be required to hold not lower than **2000**.
6 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (12/24): VOR SAM RECALIBRATED. RADIALS/TRACKS REVISED.

AERO INFO DATE 10 SEP 24

INSTRUMENT APPROACH CHART - ICAO

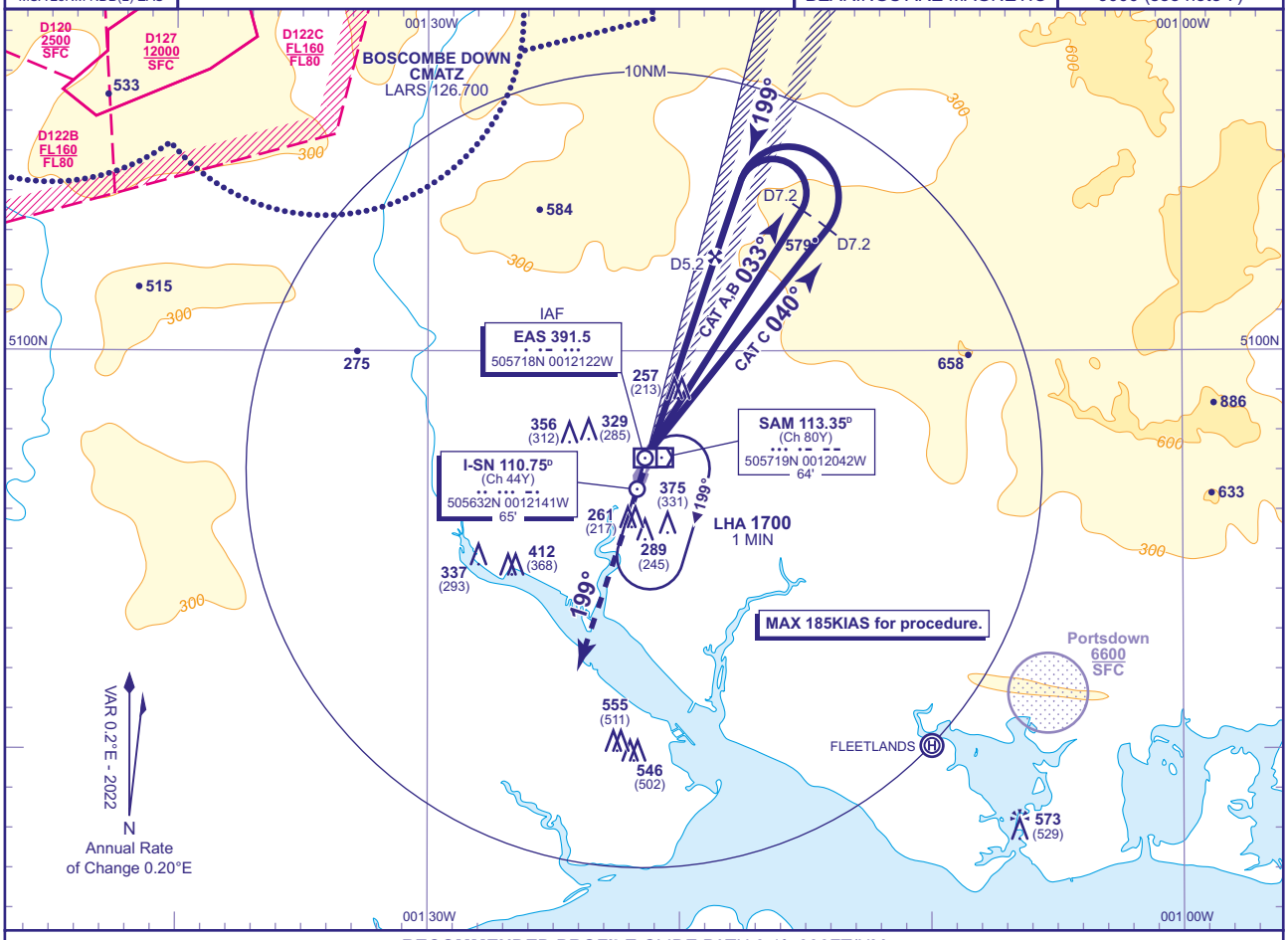
SOUTHAMPTON
(IAF NDB(L) EAS)
ILS/DME
RWY 20
(ACFT CAT A,B,C)

MSA 25NM NDB(L) EAS

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

AD ELEVATION	**44**
THR ELEVATION	**44**
OBSTACLE ELEVATION	**648 AMSL** (604) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 7)



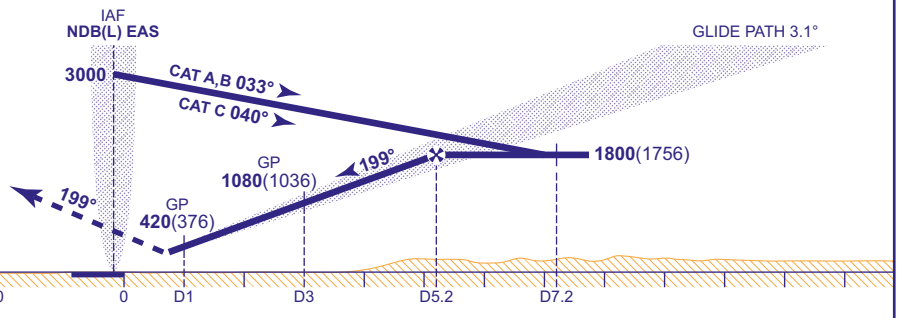
RECOMMENDED PROFILE GLIDE PATH 3.1°, 330FT/NM

DME I-SN	5	4	3	2	1
ALT(HGT)	**1740**(1696)	**1410**(1366)	**1080**(1036)	**750**(706)	**420**(376)

RDH 51

Continuous climb to **3000**, initially straight ahead then as directed.

RCF: Continuous climb to **3000**. Initially straight ahead to **2000** or DME I-SN 7.7 (SAM DME 8) whichever is later then climbing right turn to **NDB(L) EAS** to hold at **3000**.



Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**CAT I**	**219**(175)	**226**(182)	**237(193)**
VM(C)OCA (OCH AAL)	**Total Area**	**680(636)**	**700**(656)	**890**(846)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	880	770	660	550	440

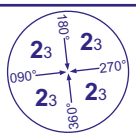
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 DME SAM is situated 0.3NM east of THR RWY 20.
3 DME SAM may be substituted for DME I-SN if required. There are no changes to DME distances when DME SAM is used.
4 In the event of DME being unavailable, radar ranges will be given at 7NM outbound and at the FAP.
5 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn. Aircraft being radar vectored to the LOC may not be provided a period of level flight immediately prior to GP intercept. GP intercept will normally be at **2500**.
6 Aircraft will normally be required to hold not lower than **2000**.
7 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (10/22): OBSTACLES REVISED.

AERO INFO DATE 12 JUL 22

INSTRUMENT APPROACH CHART - ICAO

SOUTHAMPTON
(IAF NDB(L) EAS)
LOC/DME
RWY 20
(ACFT CAT A,B,C)

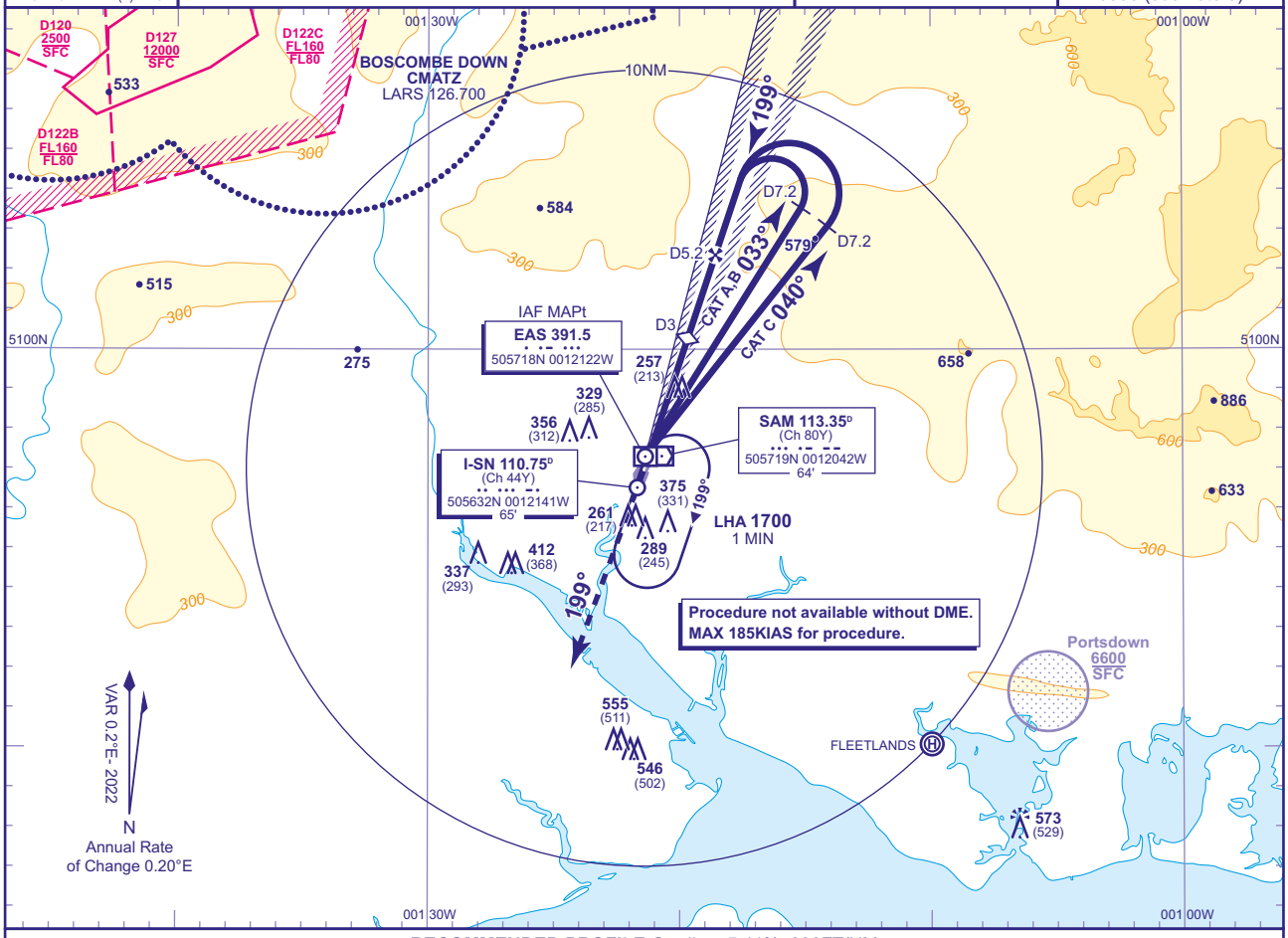


MSA 25NM NDB(L) EAS

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

AD ELEVATION	**44**
THR ELEVATION	**44**
OBSTACLE ELEVATION	**648 AMSL** (604) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 6)



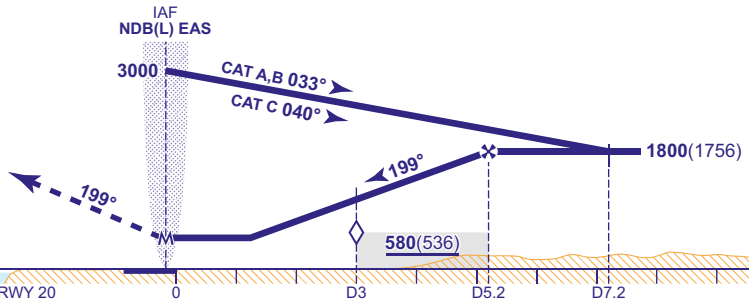
RECOMMENDED PROFILE Gradient 5.41%, 330FT/NM

DME I-SN	5	4	3 **(SDF)**	2
ALT(HGT)	**1740**(1696)	**1410**(1366)	**1080**(1036)	**750**(706)

MAPt NDB(L) EAS

Continuous climb to **3000**, initially straight ahead then as directed.

RCF: Continuous climb to **3000**. Initially straight ahead to **2000** or I-SN DME 7.7 (SAM DME 8) whichever is later then climbing right turn to **NDB(L) EAS** to hold at **3000**.



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**510**(466)	**510**(466)	**510**(466)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(636)	**700**(656)	**890**(846)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	880	770	660	550	440

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 DME SAM is situated 0.3NM east of THR RWY 20.
3 DME SAM may be substituted for DME I-SN if required. There are no changes to DME distances when DME SAM is used.
4 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn. Aircraft being radar vectored to the LOC may not be provided a period of level flight immediately prior to crossing the FAF.
5 Aircraft will normally be required to hold not lower than **2000**.
6 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (10/22): OBSTACLES REVISED.

AERO INFO DATE 12 JUL 22

INSTRUMENT APPROACH CHART - ICAO

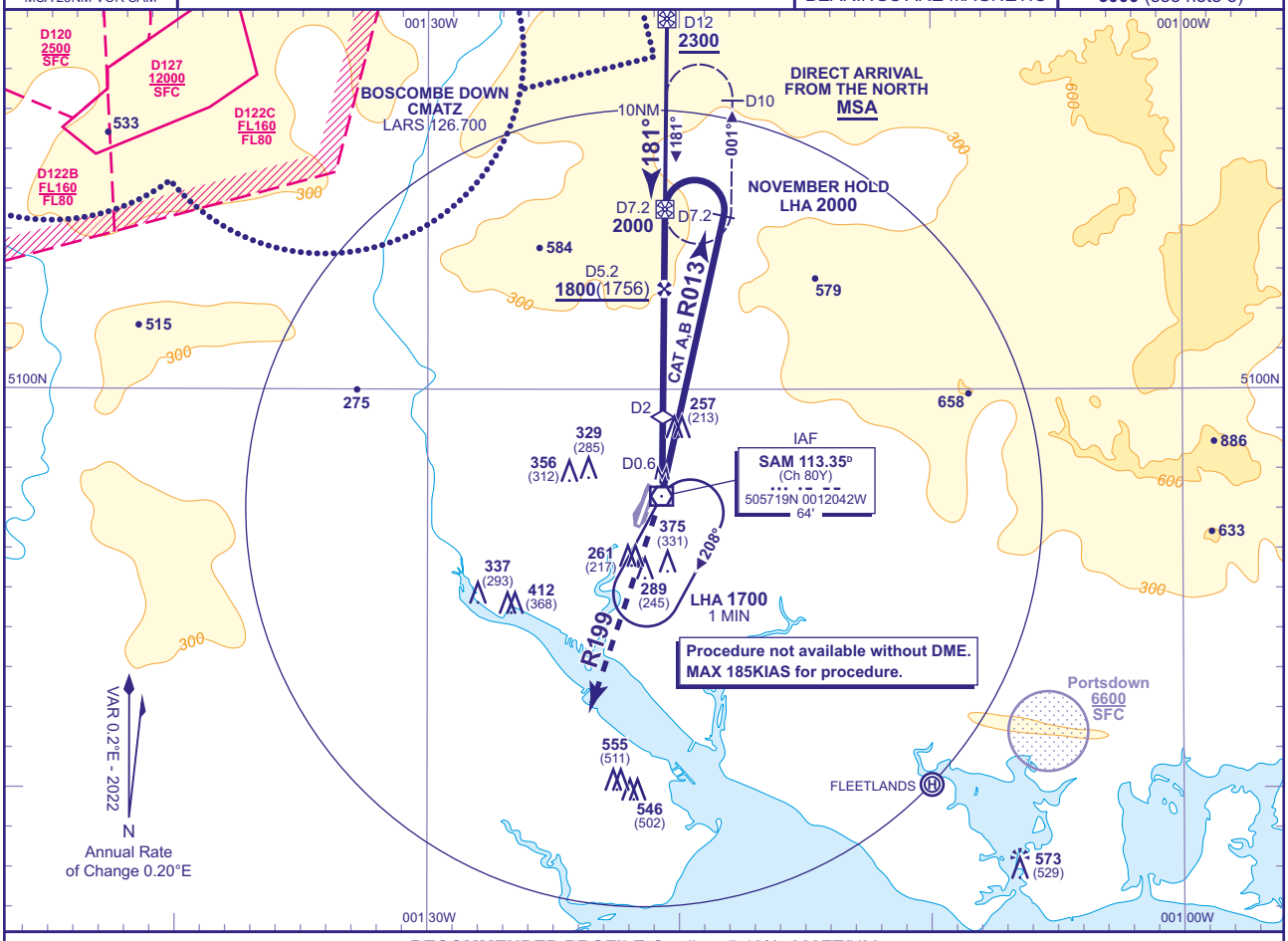
SOUTHAMPTON VOR/DME RWY 20
(ACFT CAT A,B)

MSA 25NM VOR SAM

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

AD ELEVATION	44
THR ELEVATION	44
OBSTACLE ELEVATION	648 AMSL (604) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 5)



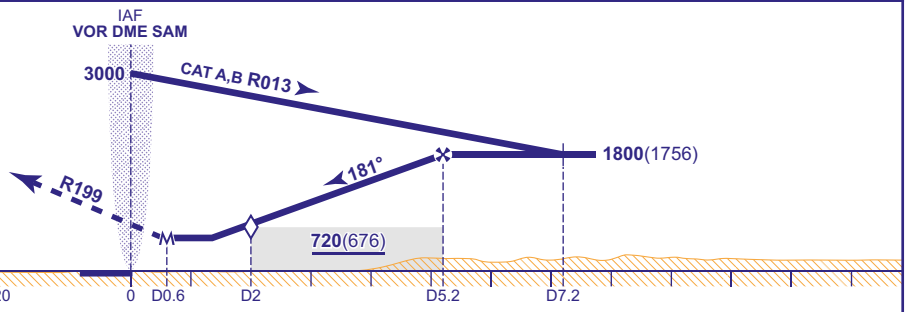
RECOMMENDED PROFILE Gradient 5.40%, 328FT/NM

DME SAM	4	3	2 **(SDF)**
ALT(HGT)	**1410**(1366)	**1080**(1036)	**750**(706)

MAPt SAM DME 0.6

Continuous climb to **3000**, initially straight ahead to **VOR SAM** then on R199 then as directed.

RCF: Continuous climb to **3000**. Initially straight ahead to **VOR SAM** then on R199 to **2000** or SAM DME 8.0 whichever is later then climbing right turn to **VOR SAM** to hold at **3000**.



DME SAM is situated 0.3NM east of THR RWY 20

Aircraft Category		A	B
OCA (OCH)	**Procedure**	**560**(516)	**560**(516)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(636)	**700**(656)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	860	750	640	540	430

ALTERNATIVE PROCEDURE FROM HOLDING PATTERN NOVEMBER
From holding fix/IAF inbound (NOVEMBER VOR SAM R001 DME 7.2) at **2000**, descend to cross FAF (SAM DME 5.2), **not below 1800**(1756), then continue as for main procedure.

ALTERNATIVE VOR DME HOLDING PATTERN NOVEMBER
Inbound 181° to holding fix (VOR SAM R001 DME 7.2) turning left at fix. Limiting outbound distance DME 10.

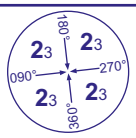
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 FAT offset 18° from RWY CL and intersects RWY CL nominally 1.0NM before THR (nominally SAM DME 1.0).
3 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn. Aircraft being radar vectored to the FAT may not be provided a period of level flight immediately prior to crossing the FAF.
4 Aircraft will normally be required to hold not lower than **2000**.
5 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (12/24): VOR SAM RECALIBRATED. RADIALS/TRACKS REVISED.

AERO INFO DATE 04 SEP 24 AD 2-EGHI-8-8

INSTRUMENT APPROACH CHART - ICAO

SOUTHAMPTON NDB(L)/DME RWY 20
(ACFT CAT A,B,C)

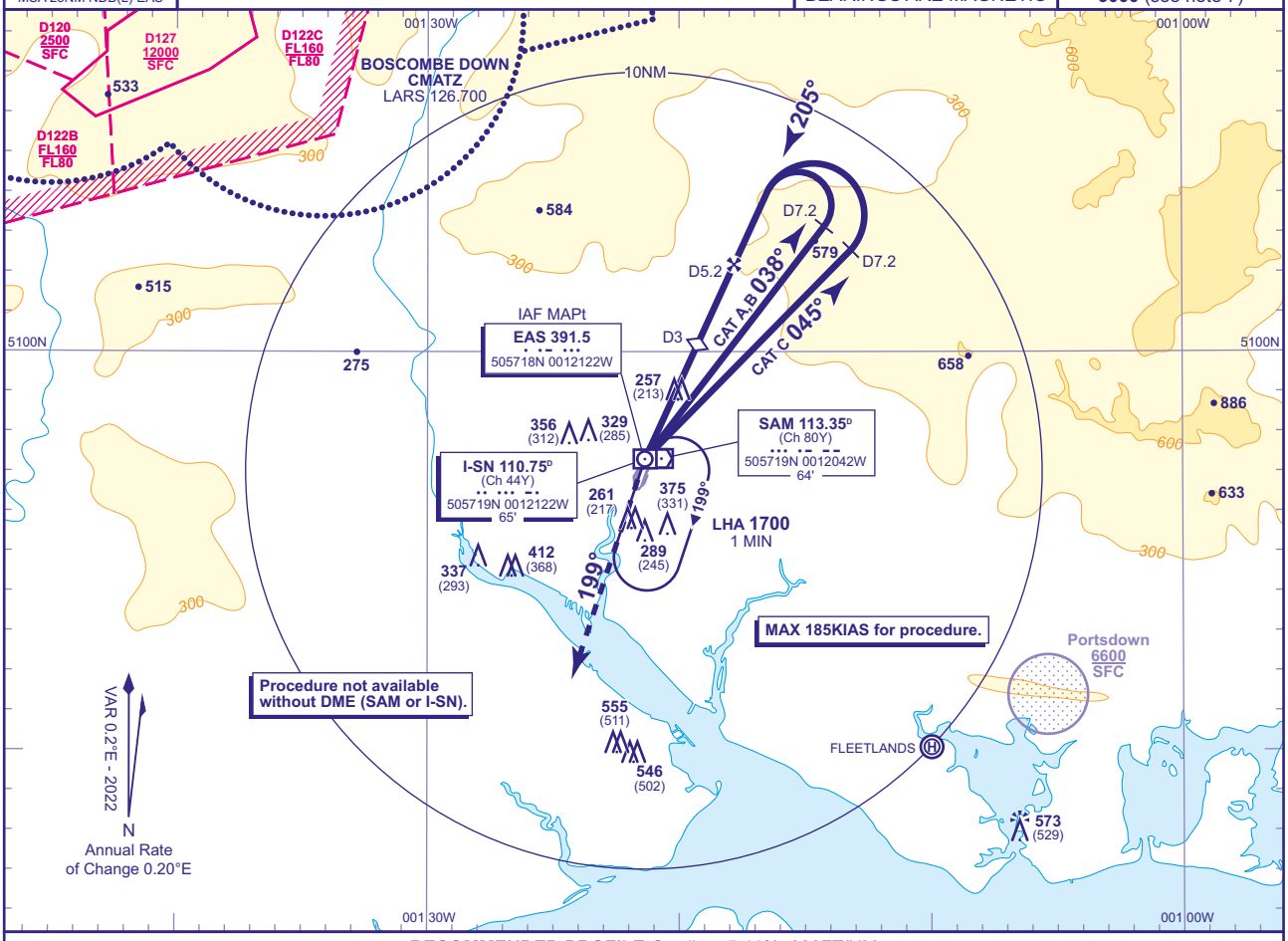


MSA 25NM NDB(L) EAS

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

AD ELEVATION	44
THR ELEVATION	44
OBSTACLE ELEVATION	648 AMSL (604) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000** (see note 7)



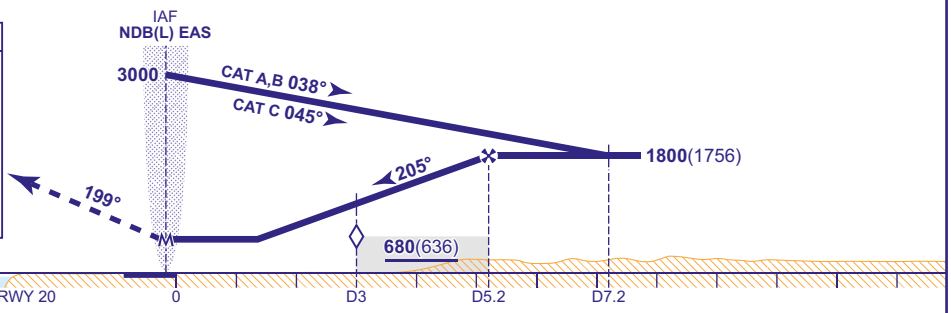
RECOMMENDED PROFILE Gradient 5.41%, 328FT/NM

DME I-SN	4	3 **(SDF)**	2
ALT(HGT)	**1410**(1366)	**1080**(1036)	**750**(706)

MAPt NDB(L) EAS

Continuous climb to **3000**, initially straight ahead to **NDB(L) EAS** then on QDR 199°, then as directed.

RCF: Continuous climb to **3000**. Initially straight ahead to **NDB(L) EAS** then on QDR 199° to **2000** or I-SN DME 7.7 (SAM DME 8) whichever is later then climbing right turn to **NDB(L) EAS** to hold at **3000**.



Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**560**(516)	**560**(516)	**560**(516)
VM(C)OCA (OCH AAL)	**Total Area**	**680**(636)	**700**(656)	**890**(846)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	880	770	660	550	440

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 FAT offset 6° from RWY CL and intersects CL 0.8NM (I-SN DME 0.8) before THR.
3 DME SAM is situated 0.3NM east of THR RWY 20.
4 DME SAM may be substituted for DME I-SN if required. There are no changes to DME distances when DME SAM is used.
5 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn. Aircraft being radar vectored to the FAT may not be provided a period of level flight immediately prior to crossing the FAF.
6 Aircraft will normally be required to hold not lower than **2000**.
7 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (10/22): OBSTACLES REVISED.

AERO INFO DATE 12 JUL 22

INSTRUMENT APPROACH CHART - ICAO

SOUTHAMPTON VOR/DME 181° TO AERODROME
(ACFT CAT C)

APP	120.230	SOLENT RADAR	
	122.730	SOUTHAMPTON RADAR	
TWR	118.205	SOUTHAMPTON TOWER	
ATIS	130.880	SOUTHAMPTON INFORMATION	

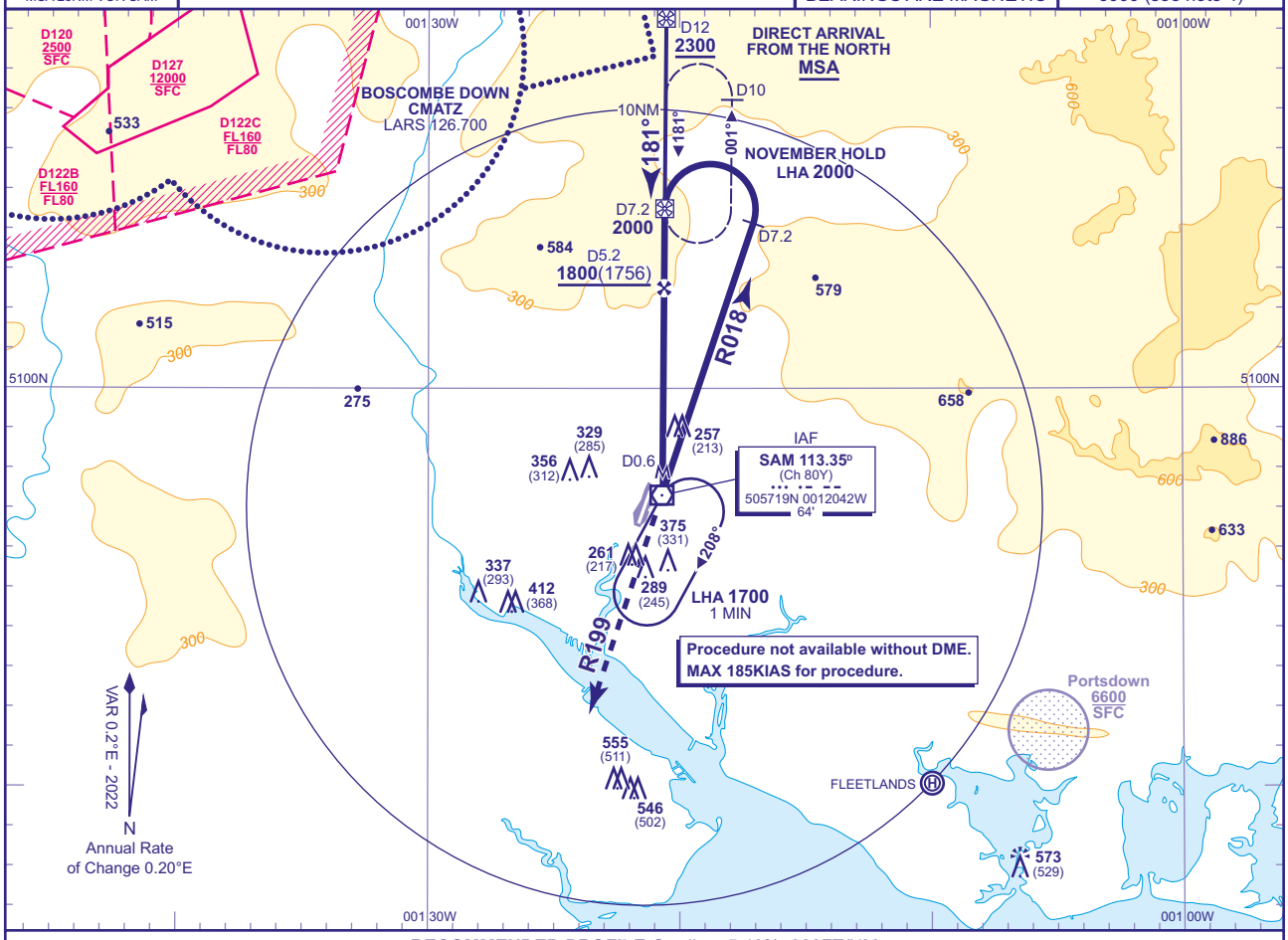
MSA 25NM VOR SAM

AD ELEVATION 44

OBSTACLE ELEVATION
648 AMSL
(604) (ABOVE AD)

BEARINGS ARE MAGNETIC

TRANSITION ALTITUDE
6000 (see note 4)



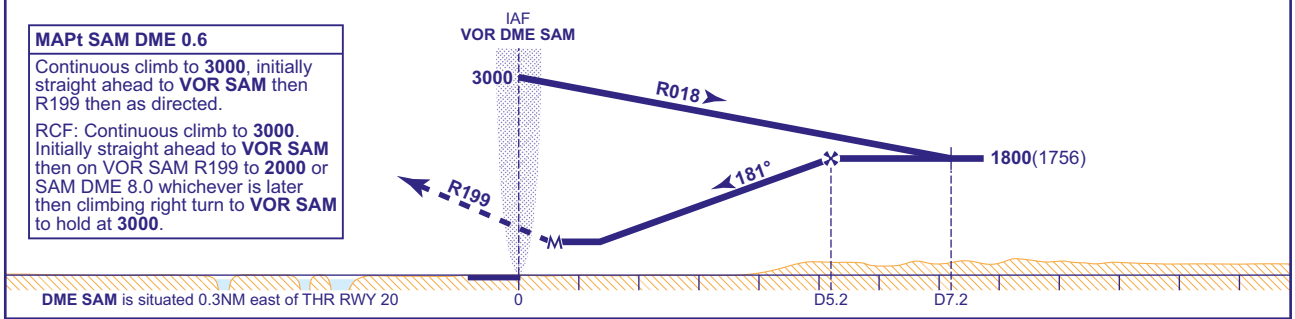
RECOMMENDED PROFILE Gradient 5.40%, 328FT/NM

DME SAM	4	3
ALT(HGT)	**1410**(1366)	**1080**(1036)

MAPt SAM DME 0.6

Continuous climb to **3000**, initially straight ahead to **VOR SAM** then R199 then as directed.

RCF: Continuous climb to **3000**. Initially straight ahead to **VOR SAM** then on VOR SAM R199 to **2000** or SAM DME 8.0 whichever is later then climbing right turn to **VOR SAM** to hold at **3000**.



DME SAM is situated 0.3NM east of THR RWY 20

Aircraft Category		**C**
OCA (OCH)	**Procedure**	**890**(846)
VM(C)OCA (OCH AAL)	**Total Area**	**890**(846)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	860	750	640	540	430

ALTERNATIVE PROCEDURE FROM HOLDING PATTERN NOVEMBER
From holding fix/IAF inbound (NOVEMBER VOR SAM R001 DME 7.2) at **2000**, descend to cross FAF (SAM DME 5.2), **not below 1800**(1756), then continue as for main procedure.

ALTERNATIVE VOR DME HOLDING PATTERN NOVEMBER
Inbound 181° to holding fix (VOR SAM R001 DME 7.2) turning left at fix. Limiting outbound distance DME 10.

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Due to controlled airspace constraints, aircraft may temporarily leave controlled airspace in the base turn. Aircraft being radar vectored to the FAT may not be provided a period of level flight immediately prior to crossing the FAF.
3 Aircraft will normally be required to hold not lower than **2000**.
4 Outside the Solent CTA notified hours of operation the Transition Altitude is **3000**.

CHANGE (12/24): VOR SAM RECALIBRATED. RADIALS/TRACKS REVISED. CHART TITLE REVISED.

AERO INFO DATE 04 SEP 24 AD 2-EGHI-8-10

Instrument Approach Procedure Coding Tables

Southampton RNP RWY 02 - Instrument Approach Procedure via BAMTU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R02	001	IF	BAMTU	N	-	-	2500	185	504802.93N 0012623.53W	IF / 9.1NM
R02	002	TF	HI02F	N	019° (019.36°)	-	1700	-	505149.08N 0012417.93W	FAF / 5.1NM
R02	003	TF	RW02	Y	019° (019.36°)	-	-	-	505636.86N 0012137.90W	MAPt
R02	004	CA	--	-	019° (019.36°)	-	3000	-	-	-

CHANGE (6/21): MAG VAR. MAG TRACKS. PAGE RENUMBERED.
AERO INFO DATE 19 MAR 21

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EGMC — SOUTHEND

EGMC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGMC — SOUTHEND

EGMC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513413N Long: 0004136E Mid point of Runway 05/23.
2	Direction and distance from city	1.5 NM N of Southend-on-Sea.
3	Elevation / Reference temperature / Mean Low Temperature	55 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	148 FT
5	Magnetic Variation / Annual Change	0.79°E (2022) / 0.19°E
6	AD Administration Address Telephone Telefax SITA E-mail address	LONDON SOUTHEND AIRPORT CO LTD London Southend Airport, Southend-on-Sea, Essex SS2 6YF. 01702-538500 (Switchboard) 01702-538420 (ATC) 01702-538401 (AFS) 01702-538600 (London Southend Jet Centre) 01702-538578 (Operations/Commercial aviation handling) 01702-538501 (Administration) SENSHCR lsaairtraffic@londonsouthendairport.com (ATC) lsaenquiries@londonsouthendairport.com (Administration) ops@londonsjc.com (London Southend Jet Centre) LSA.Fire@londonsouthendairport.com (AFS) LSAOperations@londonsouthendairport.com (Operations/Commercial aviation handling)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All payments to be made via AEROPS within 24 hours unless on account or being handled by London Southend Jet Centre.

EGMC AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24.
2	Customs and immigration	H24
3	Health and sanitation	
4	AIS Briefing Office	Briefing services available for aircraft receiving handling from London Southend Jet Centre.
5	ATS Reporting Office (ARO)	Briefing services available for aircraft receiving handling from London Southend Jet Centre. Self-briefing/Pilot brief and limited telephone consultation available from Meteorological Observers in ATC.
6	MET Briefing Office	Briefing services available for aircraft receiving handling from London Southend Jet Centre.
7	ATS	H24. See also AD 2.18.
8	Fuelling	H24
9	Handling	Airline handling 0400-2359 (0300-2300), FBO handling H24.
10	Security	H24
11	De-icing	By arrangement. Contact: 07443-258705. LSA.de-icing@londonsouthendairport.com.
12	Remarks	Use of the airport between 2200-0630 (2100-0530), is subject to prior permission from ATC. This aerodrome is strictly PPR.

EGMC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Yes. Details through Southend Handling.
2	Fuel and oil types	AVTUR JET A1 91/91, AVGAS 100LL 91/90
3	Fuelling facilities/capacity	Jet A1 bowser 80,000 LT + 300,000 LT storage capacity. Avgas bowser 10,000 LT + 14,500 LT storage capacity.
4	De-icing facilities	Available by arrangement through Southend Operations.
5	Hangar space for visiting aircraft	Contact London Southend Jet Centre for hangar space/parking.
6	Repair facilities for visiting aircraft	Repair stations for a variety of fixed wing aircraft, contact Southend operations.
7	Remarks	Oxygen and related servicing: By arrangement with resident operators. Handling mandatory for all non-based civil aircraft with a MTWA of over 2.5 tonnes. London Southend Jet Centre H24 operating hours. Night time slot restrictions are in place for operations between 2300-0630 (2200-0530). London Southend Jet Centre: Tel: 01702-538600; E-mail: ops@londonsjc.com.

EGMC AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel on Airport, 2 Hotels adjacent to Airport.
2	Restaurants	In hotel and fast food outlet adjacent to airport entrance.
3	Transportation	Trains, buses, taxis and car hire. Railway station (Southend Airport) adjacent to terminal.
4	Medical facilities	Limited first aid treatment.
5	Bank and Post Office	Post Office 1 mile.
6	Tourist Office	Limited information available.
7	Remarks	Business lounge and conference facilities available. Contact lsaenquiries@londonsouthendairport.com.

EGMC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A7
2	Rescue equipment	Standard equipment for up to Category 7.
3	Capability for removal of disabled aircraft	Arranged through IATA pool for those with agreements in place, or through based firm that may support recovery: JRB engineering (Tel: 01702-545430).
4	Remarks	

EGMC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing.
2	Clearance priorities	Standard. See AD 1.2.2.
3	Remarks	Latest runway contamination information from ATC Tel: 01702-538420. Estimated braking action assessments and pilot reports may be passed.

EGMC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	NORTH APRON AND STANDS 16-18 Surface: Concrete PCN 47/R/D/X/U STANDS 1-10 Surface: Concrete PCN 47/R/D/X/T STANDS 101 / 102 Surface: Concrete PCN 46/R/C/X/U STANDS 11-15 Surface: Concrete PCN 47/R/D/X/U
2	Taxiway width, surface and strength	Taxiway A: 15 M Surface: Asphalt PCN 47/F/D/X/T Taxiway B: 15 M Surface: Concrete and asphalt PCN 47/R/D/X/U Taxiway C: 15 M Surface: Concrete and asphalt PCN 47/F/D/X/U Taxiway D: 15 M Surface: Asphalt PCN 26/F/B/X/T Taxiway E: 5.5 M Surface: Asphalt Taxiway F: 27 M Surface: Asphalt PCN 26/F/B/X/T Taxiway Z: 15 M Surface: Asphalt PCN 47/F/D/X/U
3	Altimeter checkpoint location and elevation	Stands 11-15 and North Apron 37 FT.
4	VOR checkpoints	
5	INS checkpoints	See Aircraft Parking/Docking Chart.
6	Remarks	Taxiway Echo only available for code A aircraft with an outer main gear wheel span of less than 4.5 M. Aircraft under their own power, do so at owners risk. Code A aircraft with outer main gear wheel span of 4.5 M or greater will be towed along Taxiway Echo with prior approval.

EGMC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1-10 are nose-in pushback stands and have painted centre-lines/stop arrows. Stands also have nose-out markings for aircraft up to E190 and under marshaller guidance. Stands 1-10 are fitted with AGNIS. The activation of the AGNIS is an indication to the Captain that the stand has been inspected and is clear of FOD and any obstacles. If the AGNIS is not switched on, the aircraft should hold its position on the adjacent taxiway until the AGNIS has been activated, or a marshaller is present. Stands 11-15, 16-18 and all other North Apron parking requires marshaller instruction. Stands 101 and 102 can accommodate aircraft up to B737-400. Aircraft are to be towed onto and off stand. Stands 1-6 maximum aircraft nose-in by span B737-700. Stands 7 and 8 maximum aircraft nose-in by span B737-800. Stands 9 and 10 maximum aircraft nose-in by span B737-900. On departure minimum power is to be used when taxiing off stand.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Runway Designators; Runway 23: permanently displaced threshold, Runway 05: Starter extension markings and lighting (turning circle at start of Runway 05 has green centre-line lights and blue edge lights); runway edge stripes; runway centre-line; TDZ markings. Taxiway marking aid(s): Painted yellow centre-line with lead-on/lead-off lines at junctions with Taxiways A, B, C, D and F; holding points. Taxiway light(s): Internally illuminated holding point signs at Holds A1, A2, A3, A4, B1, B2, B3, C1, C2, D, Z1 and Z2. Amber runway guard lights at Holds A1, B1, C1, D, E and F. Taxiways E and F are unlit, night time use is entirely at the operator's discretion.
3	Stop bars and runway guard lights (if any)	Stop bars located at Runway Holding Points A1, B1, C1 & D are unidirectional; aircraft and vehicles are not to cross illuminated red stop bars except when an explicit ATC clearance has been received. Stop bars located at Intermediate Holding Points A2, A3, A4, B3, C2 and C3 are bidirectional, B2 is unidirectional. Intermediate Holding Point stop bars may not always be illuminated.
4	Other runway protection measures	
5	Remarks	Two WDI Runway 05 (LGTD) 513400.38N 0004056.40E, Runway 23 (LGTD) 513425.74N 0004212.38E. Taxiway D may only be used with ATC approval.

EGMC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGMC15182) 23/APPROACH 05/ TAKE-OFF	HV PYLON	513514.41N 0004318.87E	139 FT	115 FT	No	
(EGMC15173) 23/APPROACH 05/ TAKE-OFF	HV PYLON	513450.54N 0004312.07E	107 FT	93 FT	No	
(EGMC10358) 23/APPROACH 05/ TAKE-OFF	TV AERIAL	513434.31N 0004226.80E	59 FT	31 FT	No	
(EGMC10238) 23/APPROACH 05/ TAKE-OFF	05 LLZ CABIN	513433.34N 0004212.44E	44 FT	8 FT	No	
(EGMC14228) 23/APPROACH 05/ TAKE-OFF	BUILDING TV AERIAL	513430.49N 0004224.72E	70 FT	39 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGMC15084) 23/APPROACH 05/ TAKE-OFF	GANTRY	513430.07N 0004220.39E	46 FT	18 FT	No	
(EGMC8283) 23/APPROACH 05/ TAKE-OFF	TV AERIAL	513428.84N 0004224.74E	67 FT	36 FT	No	
(EGMC10832) 05/APPROACH 23/ TAKE-OFF	APPROACH LIGHT	513352.78N 0004049.86E	66 FT	10 FT	No	
(EGMC12134) 05/APPROACH 23/ TAKE-OFF	MOBILE OBS	513350.35N 0004053.58E	66 FT	16 FT	No	
(EGMC12135) 05/APPROACH 23/ TAKE-OFF	MOBILE OBS	513349.95N 0004052.70E	68 FT	13 FT	No	
(EGMC12139) 05/APPROACH 23/ TAKE-OFF	MOBILE OBS	513348.80N 0004050.02E	73 FT	15 FT	No	
(EGMC14664) 05/APPROACH 23/ TAKE-OFF	TREE	513341.21N 0004040.48E	118 FT	46 FT	No	
(EGMC11190) 05/APPROACH 23/ TAKE-OFF	TELEGRAPH POLE	513336.94N 0004027.91E	132 FT	34 FT	No	
(EGMC12883) 05/APPROACH 23/ TAKE-OFF	TREE	513333.23N 0004013.85E	153 FT	35 FT	No	
(EGMC10515) 05/APPROACH 23/ TAKE-OFF	TV AERIAL	513332.97N 0004018.84E	147 FT	30 FT	No	
(EGMC12873) 05/APPROACH 23/ TAKE-OFF	TREE	513331.75N 0004011.79E	160 FT	37 FT	No	

→

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGMC14410)	TREE	513538.11N 0003756.57E	339 FT	86 FT	No	
(EGMC15300)	TREE	513524.03N 0003843.84E	276 FT	86 FT	No	
(EGMC15112)	INDUSTRIAL CHIMNEY	513507.29N 0004215.88E	174 FT	146 FT	Yes Red	
(EGMC15971)	BUILDING	513405.59N 0004137.89E	98 FT	56 FT	No	
(EGMC8101)	SPIRE	513403.71N 0004104.72E	114 FT	66 FT	Yes Red	
(EGMC10247)	FENCE	513402.63N 0004107.43E	55 FT	7 FT	No	
(EGMC15574)	MAST	513334.56N 0003603.64E	357 FT	131 FT	No	
(EGMC7713)	AERIAL ON HOSPITAL	513314.12N 0004121.59E	286 FT	195 FT	Yes Red	
(EGMC15517)	BLDG MAST	513303.07N 0003452.05E	430 FT	175 FT	No	
(EGMC15626)	BLDG MAST	513240.86N 0004233.02E	293 FT	202 FT	Yes Red	
(EGMC7801)	BUILDING OBS LIGHT	513230.96N 0004236.43E	286 FT	190 FT	Yes Red	

EGMC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE HEATHROW 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/Pilot brief and limited telephone consultation available from Meteorological Observers in ATC.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Charts and other information available for briefing or consultation – Internet WI-FI for ASXX, 215 Low Level SIG WX, 214 Spot Winds and Weather warnings.
8	Supplementary equipment available for providing information	ATIS 136.055 MHz.
9	ATS units provided with information	SOUTHEND
10	Additional information (limitation of service, etc.)	Hourly METAR at night. Only Touchdown and Stop end IRVRs available.

EGMC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
05	054.16°	1856 x 36 M	RWY surface: Asphalt, Grooved PCN 65/F/B/W/T	513357.33N 0004059.96E 147.9 FT	THR 55.2 FT TDZ 55.2 FT	RWY 05 0.35% down RWY 23 0.35% up
23	234.17°	1856 x 36 M	RWY surface: Asphalt, Grooved PCN 65/F/B/W/T SWY surface: Asphalt, Grooved PCN 65/F/B/W/T	513427.71N 0004207.48E 147.8 FT	THR 38.1 FT TDZ 41.3 FT	RWY 05 0.35% down RWY 23 0.35% up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	60 x 150 M	1724 x 280 M	138 x 150 M -			RWY 05 Clearway dimensions: 60 x 150 M widening to 180 M. OFZ: Yes. Starter extension of 135 x 30 M grooved asphalt. The turning circle at the extremity has a radius of 15 M. Runway instrument strip infringed by Church, see AD 2.10 and 2.20 Para 4a.
60 x 36 M	60 x 150 M	1724 x 280 M	227 x 150 M -			RWY 23 Threshold displaced by 248 M. OFZ: Yes. RWY Dimensions: 1840 x 36 M Runway instrument strip infringed by Church, see AD 2.10 and 2.20 Para 4a.

EGMC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	1739 M	1799 M	1739 M	1604 M	TORA/ASDA/LDA ends 236 M before the end of runway due to overrun RESA, dimensions 138 x 150 M, grooved asphalt where paved, and strip end provision. TODA ends 188 M before end of runway.
23	1739 M	1799 M	1799 M	1604 M	i Threshold is permanently displaced 248 M from the beginning of the runway. ii TORA/ TODA starts at 12 M from beginning of runway. iii TODA/ASDA ends 44 M before end of runway, TORA ends 104 M before end of runway. iv Overrun RESA, dimensions 227 x 150 M, grooved asphalt where paved, provided beyond the end of the runway.
05	1016 M	1076 M	1016 M		Take-off from intersection at Taxiway C.
05	978 M	1038 M	978 M		Take-off from intersection at Taxiway D.
23	1182 M	1242 M	1242 M		Take-off from intersection at Taxiway B.

EGMC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	Uni-directional centre-line with three crossbars. 540 M Light intensity high	Green Light intensity high Inset Wingbars	PAPI Right/ 3.5° 53 FT 322 M		1840 M 15 M spacing. Red centre-line lights extend beyond end of TORA/ LDA. White Light intensity high	1840 M 60 M spacing. Elev bi-directional with omni-directional component. Blue edge lights to 05 starter extension. White Light intensity high	Red Light intensity high		
23	Uni-directional centre-line with four crossbars. Due siting limitations, there are only 3 centre-line lights between the 2nd and 3rd crossbars from the threshold and between the 3rd and 4th crossbars. 583 M Light intensity high	Green Light intensity high Inset Wingbars	PAPI Left/3° 53 FT 356 M		1840 M 15 M spacing. White centre-line lights in pre-threshold runway. White Light intensity high	1840 M 60 M spacing. Elev bi-directional with omni-directional component. Red pre-threshold lighting. White Light intensity high	Red Light intensity high		CL: Due siting limitations, there are only 3 centre-line lights between the 2nd and 3rd crossbars from the threshold and between the 3rd and 4th crossbars.

EGMC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: R05 (LGTD) 513359.21N 0004115.75E R23 (LGTD) 513432.29N 0004202.68E
3	TWY edge and centre line lighting	CL: Taxiways A and C have centre-line lighting. EDGE: Taxiways A and C have blue edge lights on bends and opposite stands on Taxiway A. Taxiways B, D and Z have blue edge lighting.
4	Secondary power supply/switch-over time	UPS/1 second, AGL/1 second. Remaining facilities/15 seconds.
5	Remarks	Apron floodlighting. Obstacle lighting.

EGMC AD 2.16 HELICOPTER LANDING AREA

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EGMC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SOUTHEND CTR 1 513445N 0002903E - 514206N 0004521E - 513417N 0005000E - 513151N 0005000E - 512719N 0003955E - 512701N 0003630E thence clockwise by the arc of a circle radius 7.5 NM centred on 513357N 0004100E to 513445N 0002903E	Upper limit: 3500 FT ALT Lower limit: SFC	D	SOUTHEND APPROACH English	6000 FT		H24. LTMA airspace 3500 FT upwards. Aircraft given approval to enter or leave the Southend CTR when en-route to, or departing from unlicensed aerodromes or landing sites within the CTR, are to maintain a continuous listening watch on the appropriate ATC radio frequency. A change to 'SAFETYCOM' or other air/ ground frequency is only permitted when specific approval has been given by ATC. See EGMC 2.22 Section 7 for details of the Stoke Local Flying Zone (LFZ) and Canewdon paramotor/powered paraglider sites.
SOUTHEND CTR 2 514206N 0004521E - 514312N 0004748E - 514138N 0005222E - 513618N 0005532E - 513417N 0005000E - 514206N 0004521E	Upper limit: 4500 FT ALT Lower limit: SFC	D	SOUTHEND APPROACH English	6000 FT		H24. LTMA airspace 4500 FT upwards.
SOUTHEND CTR 3 514138N 0005222E - 514057N 0005420E thence clockwise by the arc of a circle radius 10 NM centred on 513428N 0004207E to 513528N 0005805E - 513151N 0005000E - 513417N 0005000E - 513618N 0005532E - 514138N 0005222E	Upper limit: 5500 FT ALT Lower limit: SFC	D	SOUTHEND APPROACH English	6000 FT		H24. LTMA airspace 5500 FT upwards.

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SOUTHEND ATZ A circle, 2.5 NM radius, centred at 513413N 0004136E on longest notified runway (05/23)	Upper limit: 2000 FT AGL Lower limit: SFC	D	SOUTHEND TOWER English	6000 FT		H24.

EGMC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	SOUTHEND APPROACH	130.780 DOC 40 NM/ 10,000 FT.			H24	
TWR	SOUTHEND TOWER	127.730 On occasion combined with Radar/Approach. DOC 25 NM/4000 FT.			H24	
RADAR	SOUTHEND DIRECTOR	128.965 DOC 40 NM/ 10,000 FT.			H24 As directed.	Use of 'Radar' suffix denotes availability only. Provision of a specific service is not implied.
	SOUTHEND RADAR	130.780 DOC 40 NM/ 10,000 FT.			H24	
ATIS	SOUTHEND INFORMATION	136.055 DOC 60 NM/ 20,000 FT.			H24	
OTHER	SOUTHEND FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	
OTHER	SOUTHEND EMERGENCY	121.500 Emergency Frequency			O/R	

EGMC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 1.59°E (2027)	ISO	111.350 MHz	HO	513432.66N 0004218.48E		(RWY 05)
ILS/GP	ISO	332.150 MHz	HO	513359.78N 0004114.81E		3.5° ILS Ref Datum Hgt 52 FT.
ILS/LOC I 1.59°E (2027)	IND	111.350 MHz	HO	513351.85N 0004047.79E		(RWY 23)
ILS/GP	IND	332.150 MHz	HO	513425.85N 0004150.83E		3.0° ILS Ref Datum Hgt 52 FT. Certified for extended range to 15 NM.
NDB (L) 1.59°E (2027)	SND	362.500 kHz	H24	513433.63N 0004200.53E		On AD. DOC 30 NM

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/DME	IND	50Y 111.350 MHz	HO	513416.06N 0004129.84E	57 FT	(RWY 23) On AD. Freq paired with ILS I-ND and I-SO. Zero range is indicated at THR of Runway 05 and 23. Range 25 NM.
ILS/DME	ISO	50Y 111.350 MHz	HO	513416.06N 0004129.84E	57 FT	(RWY 05) On AD. Freq paired with ILS I-SO and I-ND. Zero range is indicated at THR of Runway 05 and 23. Range 25 NM.
VOR/DME 1.41°E (2027) 1.1°E (2025)	LAM	103X 115.600 MHz	H24	513845.69N 0000906.13E	241 FT	VOR DOC: 30 NM/50,000 FT (40 NM/50,000 FT in Sectors R064-099, R139-174 and R249-289). DME DOC: 40 NM/50,000 FT (110 NM/50,000 FT in Sector R314-134).
VOR/DME 1.58°E (2027) 1.2°E (2023)	DET	120X 117.300 MHz	H24	511814.41N 0003550.19E	645 FT	VOR DOC: 20 NM/50,000 FT (35 NM/50,000 FT in Sector R289-029 and 45 NM/50,000 FT in Sector R249-289). DME DOC: 60 NM/50,000 FT.
VOR/DME 1.36°E (2027) 1.1°E (2022)	BKY	109Y 116.250 MHz	H24	515923.17N 0000342.87E	486 FT	VOR DOC: 20 NM/25,000 FT (30 NM/25,000 FT in Sector R069-099). DME DOC: 120 NM/50,000 FT.

EGMC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Pilots and aircraft operators operating into London Southend Airport are deemed to have read and accepted the London Southend Airport 'Terms and Conditions of Use', and to be operating in accordance with them. These are downloadable from: https://southendairport.com/corporate-and-community/doing-business-with-us.
b) Use by aircraft not able to communicate with ATC by radio subject to prior permission by telephone, 01702-538420.
c) Southend airport will not permit any fixed wing aircraft to embark or disembark passengers with any engine running, except in emergency.
d) High visibility clothing must be worn on the apron and manoeuvring area at all times, except for passengers under escort.
e) Operators are advised that a night surcharge applies to movements between 2300-0600 (2200-0500).
f) Any ad-hoc movements between 2200-0630 (2100-0530) must obtain prior permission from ATC by telephone +44 (0)1702-538420 prior to commencement of the flight. Filing a flight plan is not sufficient in this regard.
g) Crew and passengers walking to and from north and south aprons will do so following the green marked walkways.
h) This aerodrome is strictly PPR.

2 GROUND MOVEMENT

a) Not all taxiways are available for use by all aircraft types. A321 sized aircraft and larger shall not vacate the runway via Taxiway Bravo. All code D sized aircraft must have a follow me vehicle or be towed. ATC will advise. Taxiway Echo only available for code A aircraft with an outer main gear wheel span of less than 4.5 M. Aircraft under their own power, do so at owners risk. All flights operating from the north side of the airport will, to aid ATC situational awareness, request taxi clearance. Code A aircraft with outer main gear wheel span of 4.5 M or greater will be towed along Taxiway Echo with prior approval.
b) Taxiway Delta: Pilots are advised that there is no taxiway lighting guidance and that vehicles operate north of Holding Point Delta without clearance or knowledge. Wingtip clearance is not assured and pilots are to take extra care when taxiing. All flights operating from the north side of the airport will, to aid ATC situational awareness, request start, push back and taxi clearance. TP-D on Taxiway Delta signage reads Delta Tug Point (DTP).
c) Runway 05 – Aircraft able to accept a departure from intersection of Taxiways C or D should inform ATC on start–up or taxi. See AD 2.13 for intersection departure declared distances.
d) Jet aircraft are to apply minimum thrust when starting and taxiing off Stands 11-15, due to proximity of buildings and other aircraft.
e) GA Parking will be directed by ATC and the marshaller.
f) Crew are requested to use minimum engine power when manoeuvring on the aprons and taxiways.
g) Taxiway Delta has a longitudinal slope of 2%. Operators are to taxi with caution between Delta holding point and runway edge.
h) The Centralised De-icing Facility (CDF) located towards the southern end of Taxiway Bravo is the only location enabled for the remote de-icing of aircraft.

   i. Remote de-icing is available.
   ii. Remote de-icing operations may occur when snow is falling and accumulating and will be promulgated by Southend Operations.
   iii. When the CDF is "open" this will be broadcast on ATIS and full details are available via the Aerodrome Manual.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) It is a condition of operating at the airport that the operator accepts that St. Laurence Church and graveyard are permanent obstacles within the runway instrument strip and that they take account of them to the extent necessary to ensure a safe operation. Operators must refer to the airport conditions of use, and the pilots briefing pack on the LSACL website. Church roof is at 78 FT AMSL at 94 M from runway centre-line, spire at 114 FT AMSL, 105 M from runway centre-line at approximately 200 M north-east of Runway 05 threshold, lit with a single red obstacle light. Frangible fence around Church graveyard up to 9 FT AGL (56 FT AMSL), at closest 49 M from Runway centre-line. Operators should refer to obstacle data at AD 2.10 and charts at AD 2.24.
b) Low Visibility Operations will commence whenever the meteorological visibility is less than 2000 M and/or the cloud ceiling is less than 300 FT. The ATIS will advise when Low visibility procedures are in force.

   A follow me vehicle may be provided as instructed by ATC.

   Aircraft that require the use of Taxiway Delta should advise ATC at the earliest opportunity in order to facilitate timely removal of safety barriers.
c) Bird hazard: increased bird activity may be encountered on Runway 05 and 23 approaches during Spring and Autumn due to agricultural activity.

5 HELICOPTER OPERATIONS

a) Helicopter circuits as directed by ATC.
b) Helicopters must obtain specific clearance to cross the runway.
c) During Low Visibility Procedures any helicopter movements will be to/from the runway.
d) Helicopters not permitted between 2300-0630 (2200-0530). Exceptions are due to weather diversion; emergencies; when operated by or on behalf of HEMS/Hospital flights; the Military, the Police, or on Search and Rescue duties.

6 USE OF RUNWAYS

a) Variable circuits as instructed by ATC.
b) Circuit height 1000 FT AAL and 1500 FT AAL for aircraft 5700 KG or greater by day. All circuits 1500 FT AAL by night.
c) Operators attention is drawn to the possibility of localiser signal fluctuations due to the proximity of the Runway 05 localiser array to the runway. Landing aircraft vacating Runway 05 via Taxiway Alpha should endeavour to keep the aircraft in continuous motion until passing A1 Holding Point.

7 TRAINING

a) The following require prior permission from ATC by Tel: 01702-538420:

   i. IFR Examination flights
   ii. Circuit details
   iii. Qualifying cross country flights - Inbound
   iv. Instrument approach training.

b) A slot booking system operates for Instrument Approach training and circuit training details. Because of airspace limitations, pilots of instrument training flights must adhere to pre-booked times otherwise their flights may be delayed or curtailed. ATC are to be advised (prior to the time of the original slot) of any cancellations, or delays of 10 minutes or more.
c) In order to maximise capacity, it is preferred that instrument training flights accept radar vectors. Such flights requesting to enter the hold or to fly ‘non-radar’ instrument approaches may be refused or delayed to accommodate non-training traffic.

EGMC AD 2.21 NOISE ABATEMENT PROCEDURES

Operators of all aircraft using the aerodrome shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in the areas surrounding the aerodrome. The following procedures and routeings apply to all aircraft whether landing or taking off or making a missed approach in either VMC or IMC.

a) Aircraft of more than 5.7 tonnes Maximum Certified Weight:

   i. When departing Runway 05 shall climb straight ahead until a range of 1 DME (I-SO or I-ND) **and** an altitude of 1500 FT is reached before turning;
   ii. When departing Runway 23 shall climb straight ahead until a range of 2.5 DME (I-SO or I-ND) **and** an altitude of 1500 FT is reached before turning;
   iii. Aircraft of more than 5.7 tonnes weight intending to operate at below 1500 FT altitude shall conform to the DME distances above before commencing any turn on track.

b) Between 2300-0630 (2200-0530), noise limits, noise quotas and limitations on the number and types of aircraft accepted apply. Operators wishing to operate within this period must seek prior approval from 'London Southend Jet Centre’ +44(0)1702-538600; ops@londonsjc.com. Civil Helicopters not normally permitted.

c) The airport operates a Preferred Runway Usage Scheme as follows: Subject to over-riding Pilot and ATC safety/performance and separation requirements, whenever the tailwind component is 5 KT or less, the preferred runway for departures is Runway 05, and for arrivals is Runway 23. Between 2330-0630 (2230-0530) ATC will avoid using Taxiway C as much as is practically possible. Pilots should expect to enter and vacate the runway via alternative routes.

d) When making a visual approach to either runway, all aircraft of 5.7 tonnes or more AUW are to be established on the extended runway centre-line no later than reaching a range of 3 NM (3 DME) from the threshold of the runway in use and at a height not below the PAPI indicated approach slope. Thereafter aircraft shall follow a descent path not below a normal approach path as indicated by the PAPIs of 3.5° (RWY 05), 3° (RWY 23).

e) The routings and procedures specified above are compatible with normal Air Traffic Control requirements. In individual cases they may be varied by Air Traffic Control when necessary. The use of the procedures is supplementary to standard noise abatement take-off techniques as used by piston, turbo-prop and turbo-jet aircraft. Any of the above requirements may be departed from to the extent necessary for the avoidance of immediate danger.

f) Ground Running of Engines: Due to the close proximity of residential areas ground running of aircraft engines for maintenance purposes will not be permitted as follows:

i. Mon-Sat 2000-0800 (1900-0700)
Sat 1800 (1700) - Sun 0900 (0800)
Sun 1800 (1700) - Mon 0800 (0700)
Between 1055-1105 on the 11 November.

ii. No individual engine runs shall last more than 90 minutes. High power runs must be kept to the minimum necessary and in all cases less than 60 minutes duration.

iii. Ground running of aircraft engines for maintenance purposes is only permitted on Taxiways B and F, and requires authorisation by ATC on 01702-538420. Radio contact must then be established and maintained with ATC during the engine run. ATC is to be informed on each occasion when high power running ceases.

iv. APUs on passenger aircraft shall not be used for more than 30 minutes before departure or after arrival, this limit may be extended to 40 minutes when air temperature is less than minus 5° C, or more than 20° C. During stand re-positioning, the APU is not to be started prior to 10 minutes before the aircraft is moved.

EGMC AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR IFR FLIGHTS

a) **IFR Arrivals - Airways**

i. The standard routes for inbound aircraft via the ATS Route Network are detailed in the Standard Arrival Routes (STAR) shown at AD 2-EGMC-7-STAR Charts (and associated database coding tables).

ii. Pilots should ensure they have received the Southend ATIS prior to transfer to Southend by the airways sector.

iii. Pilots should expect radar vectoring to the runway in use; outside of the hours of radar operation, pilots should expect to route to the SND for a procedural approach to the runway in use.

iv. Arrivals from the north may be issued tactical routing via either of the points SABER, SND or GEGMU. Holding may be required at either SND or GEGMU.

v. Pilots should note that when flying the full procedural ILS/DME/NDB(L) RWY 05 or LOC/DME/NDB(L) RWY 05 that they should not exceed 10.3 DME I-SO in order to remain within CAS. On either runway, the ICAO primary protection areas of the base turn areas of the procedural ILS approaches are not wholly contained within CAS.

b) **IFR Departures – Airways Preferred Departure Routes**

i. The Standard Routes for outbound aircraft are shown in the table below. Revised clearances may be issued prior to departure for integration into the LTMA.

ii. The PDRs are not wholly contained within controlled airspace; ATC will seek to provide CAS containment by issuing tactical instructions.

iii. Pilots must adhere to the Noise Abatement Procedures detailed at EGMC AD 2.21 a (i) and (ii), which must be followed by aircraft of more than 5.7 tonnes Maximum Certified Weight before turning towards the first routing point listed in the PDR route (or before turning onto a radar heading, unless ATC have authorised otherwise).

iv. These routes do not constitute Standard Instrument Departure procedures and are not assessed for obstacle clearance.

Departing to	PDR Designator	Via	Routeing
Northeast	Clacton (CLN)	L608/L620	CLN (**Note 1**)
Southeast	Dover (DVR)	L9/L10/Q70	DET - DVR (**Note 1** and **Note 3**)
South & Southwest	Lydd (LYD)	M189	DET - LYD (**Note 1** and **Note 3**)
West	Compton (CPT)	Q63	EVNAS - LAM - BPK - HEN - CPT (**Note 2**)
North	Brookmans Park (BPK)	L10/N601	EVNAS - LAM - BPK (**Note 2**)

Note 1: *Cross first point in 'Route' level at altitude 3000 FT.*

Note 2: *Cross EVNAS at altitude 3000 FT. When established inbound to LAM climb to altitude 4000 FT.*

Note 3: *Information regarding the status of the Danger Area complex to the east of Southend (see chart AD 2-EGMC-4-1) are provided by ATC. When operating RWY 05, pilots are responsible for maintaining safe separation from the Danger Area complex and shall advise ATC prior to taking off if an alternative clearance is required.*

Flights to London TMA airfields, route in accordance with the UK and Ireland Standard Route Document.

c) **IFR Flights Routing Outside CAS**

i. Arrivals and Overflights are to establish communications with ATC at least 5 minutes prior to the boundary of Southend CTA/CTR whenever possible, stating what type of ATC service they request whilst outside CAS. Pilots should be aware that IFR clearances to enter Southend CAS may be lower than the published upper levels due to the interface with LTMA traffic.
ii. IFR Departures planning to leave Southend CAS that have not filed a flight plan are required to book out either with the FBO in person or via telephone, or with ATC via telephone. Pilots will be expected to supply their initial track or routing and the service they may require outside CAS.

2 RADIO COMMUNICATIONS FAILURE PROCEDURES

a) **IFR Flights**

In the event of complete radio communication failure in an aircraft, the pilot is to adopt the appropriate procedure described at ENR 1.1 sub-section 3.4, then:

i. Inbound aircraft - follow the Southend STARs and proceed as below:

1. SPEAR arrivals from the north and northwest: Leave MAYLA direct SND descending to 3000 FT level by the SND and carry out an ILS approach to Southend.
2. GEGMU arrivals from the east and south - Runway 23: Leave GEGMU and carry out an ILS approach to Runway 23.
3. GEGMU arrivals from the east and south - Runway 05: Leave GEGMU direct SND descending to 3000 FT level by the SND and carry out an ILS approach to Runway 05.
4. Unless advised by ATC, pilots shall regard Danger Areas D136/D138/D138A/D138B as active and shall avoid them accordingly.

ii. Outbound aircraft

1. For the purposes of radio failure, the climb to flight planned level should be commenced after the last position shown in the Preferred Departure Routes where an altitude is specified.

b) **VFR Flights**

The procedures to be adopted by pilots experiencing two-way radio communication failure, inside Southend CAS, are:

i. If suitably equipped, operate the Transponder on Mode A, Code 7600 with Mode C.
ii. If it is believed that the radio communication transmitter is functioning, transmit blind giving position reports, stating intentions and proceed as follows:

1. Aircraft inbound to an aerodrome in the CTR - proceed in accordance with VFR clearance to the aerodrome and land as soon as possible. When in aerodrome traffic circuit watch for visual signals;
2. Aircraft transiting the CTR - continue flight not above the cleared altitude to leave the CTR by the most direct route, taking into account weather limitations, obstacle clearance.

Note: *In (1) and (2), if flying on a heading advised by radar, when radio communication failure occurs, resume own navigation and carry out the appropriate procedure described.*

If entry into Southend CAS has been received but two-way radio communication failure occurs outside controlled airspace, pilot is to remain outside controlled airspace. In all cases notify ATC as soon as possible after landing.

3 IFR HOLDING

a) The holding pattern 'SND' is located overhead the airport NDB. Below 3000 FT it is only available for Category A to C aircraft. The lowest available hold for Category D aircraft at the SND is 3000 FT.
b) Holding pattern 'GEGMU' at 4000 FT and 5000 FT. D138A and B are in close proximity to the hold.
c) London Control may instruct use of alternative holding facilities for traffic inbound to Southend – this will usually be at reporting points SANDY (from the south), LOGAN (from the east or north) or LOREL (from the northwest).

4 PROCEDURES FOR VFR FLIGHTS

a) VFR flight in the CTR/CTAs will be given a routing, and where necessary, altitude instructions in order to integrate with other flights.
b) Pilots should anticipate routing instructions in relation to the Visual Reference Points (VRPs) detailed in paragraph 6.
c) Pilots of VFR flights are reminded of the requirement to remain in VMC at all times and to advise ATC if at any time they are unable to comply with the level or routing clearance as issued.
d) **VFR Arrivals and Overflights**

i. Arrivals and overflights are advised to establish communications with Southend Approach at least 5 minutes prior to ETA for the Southend CTA/CTR boundary.
ii. Pilots wishing to make a Standard Overhead Join are to request this on initial contact.
iii. Pilots are advised that instrument approaches and departures may on occasion be flown that do not conform to the runway in use.

e) **VFR Departures**

i. If a flight plan has not been filed pilots are required to book out with the FBO or ATC via telephone and not on the RTF. Pilots will be expected to supply their initial track or routing.

5 SPECIAL VFR FLIGHT

a) Clearance may be requested for Special VFR flight in IMC or at night within the Southend Control Zone and will be given whenever the traffic situation permits. These flights are subject to the general conditions laid down for Special VFR flights (ENR 1.2 refers).
b) Special VFR clearance will include routing and maximum altitude instructions. Pilots holding a Private Pilots Licence (Aeroplanes) are reminded of the visibility requirements of Special VFR flights.
c) Pilots are reminded that when operating on Special VFR clearance, they must at all times remain clear of cloud and with the surface in sight and in flight conditions which will enable them to determine their flight path and keep clear of obstacles.
d) Radar vectoring will not normally be applied to aircraft operating on a Special VFR clearance. Pilots are reminded that a Special VFR clearance applies only to flights within the CTR and does not extend to flight within the surrounding airspace.
e) Pilots operating under SVFR should be aware that aircraft may be flying VFR within the Stoke LFZ (see 7(a)). Pilots will be provided with generic traffic information.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

7 FIXED WING, HANG-GLIDING, PARAGLIDING AND MICROLIGHT ACTIVITY - SOUTHEND CTR/ CTA

a) **Stoke LFZ** Microlight and fixed wing activity takes place under VFR during daylight hours at an unlicensed aerodrome at Middle Stoke. Use of the Stoke LFZ is strictly controlled by a Letter of Agreement (LOA) between Southend and the Aerodrome Operator. The Stoke Local Flying Zone (LFZ) is defined as the airspace from the surface up to 1500 FT AMSL (based on Southend QNH or Stoke QFE) including that portion of the Southend CTR defined by straight lines between the following co-ordinates: 512853.8068N 0003829.4708E - 512840.8108N 0004044.2613E - 512820.4312N 0004212.9641E - 512718.6516N 0003955.1293E - 512700.6588N 0003629.8230E thence clockwise by the arc of a circle radius 7.5 NM centred on 513357.327N 0004059.963E to 512730.17N 0003454.14E - 512852.75N 0003756.66E - 512853.8068N 0003829.4708E. The Stoke LFZ is Class D airspace.

   Pilots operating to or from Stoke must be fully briefed by Medway Microlights and must comply with the Stoke LFZ LOA.

   Generic traffic information will be provided to aircraft in communication with Southend as appropriate.
b) Para-motors and powered para-gliders sometimes operate during daylight hours under VFR in an area to the west of Canewdon from the surface to 800 FT AMSL. This area is within the Southend CTR and is defined by straight lines between the co-ordinates: 514053N 0004239E (CTR boundary) - 513659N 0004218.50E - 513658N 0004207E - 513852.50N 0003811E (CTR boundary). Traffic information will be provided when necessary. Contact Southend Airport ATC for further information.
c) Sports and Recreational Aviation activity sometimes operate during daylight hours under VFR at the following unlicensed private sites located within the Southend CTR:

   Barling - 513407N 0004742E
   St. Lawrence - 514124N 0004914E
   Tillingham - 514133N 0005222E

   Entry clearance to the Southend CTR must be obtained from Southend Approach/Radar via RTF.

8 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside the Southend controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Southend Radar frequency, 130.780 MHz, are encouraged to select SSR code 5050.

   515805N 0005802E - 515547N 0010701E -
   515903N 0012302E - 515222N 0012635E -
   513905N 0012500E - 512010N 0011421E -
   511217N 0002018E - 513630N 0001545E -
   515805N 0005802E

b) Selection of 5050 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the Southend controlled airspace at all times.
c) Whilst squawking 5050, pilots should be aware that Southend Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 5050 shall be deselected.

EGMC AD 2.23 ADDITIONAL INFORMATION

1 MODE S BAROMETRIC PRESSURE SETTING DATA

a) London Terminal Control has the ability to downlink Mode S Barometric Pressure Setting (BPS) data. Therefore, if the downlinked pressure data is at variance with the BPS expected by Air Traffic Control, pilots can expect additional challenge. When Air Traffic Control pass a reminder of the appropriate BPS, it is anticipated that the aircrew will cross check the altimeter settings and confirm set.

EGMC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGMC-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGMC-2-2
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGMC-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGMC-5-1
RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 05/23 SUMUM 1S XAMAN 1S - ICAO
AD 2.EGMC-7-1
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 05/23 KATHY 1S NEVIL 1S SAM 1S SOVAT 1S - ICAO
AD 2.EGMC-7-2
RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) RWY 05/23 FINMA 1S LISTO 1S SILVA 1S - ICAO
AD 2.EGMC-7-3
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 05/23 SUMUM 1S XAMAN 1S SOVAT 1S KATHY 1S
AD 2.EGMC-7-4
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 05/23 NEVIL 1S SAM 1S SILVA 1S
AD 2.EGMC-7-5
STANDARD INSTRUMENT ARRIVAL CODING TABLES RWY 05/23 FINMA 1S LISTO 1S
AD 2.EGMC-7-6
RNAV HOLD CODING TABLES BOMBO GEGMU GODLU HON JACKO LOGAN OKVAP SPEAR
AD 2.EGMC-7-7
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 05 (CAT A,B,C) - ICAO
AD 2.EGMC-8-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 05 (ACFT CAT D) - ICAO
AD 2.EGMC-8-2
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 05 (ACFT CAT A,B,C) - ICAO
AD 2.EGMC-8-3
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 05 (ACFT CAT D) - ICAO
AD 2.EGMC-8-4
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 05 (ACFT CAT A,B,C) - ICAO
AD 2.EGMC-8-5
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 23 - ICAO
AD 2.EGMC-8-6
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 23 - ICAO
AD 2.EGMC-8-7
INSTRUMENT APPROACH CHART SRA RTR 2NM RWY 23 (CAT A,B,C) - ICAO
AD 2.EGMC-8-8

EGMC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

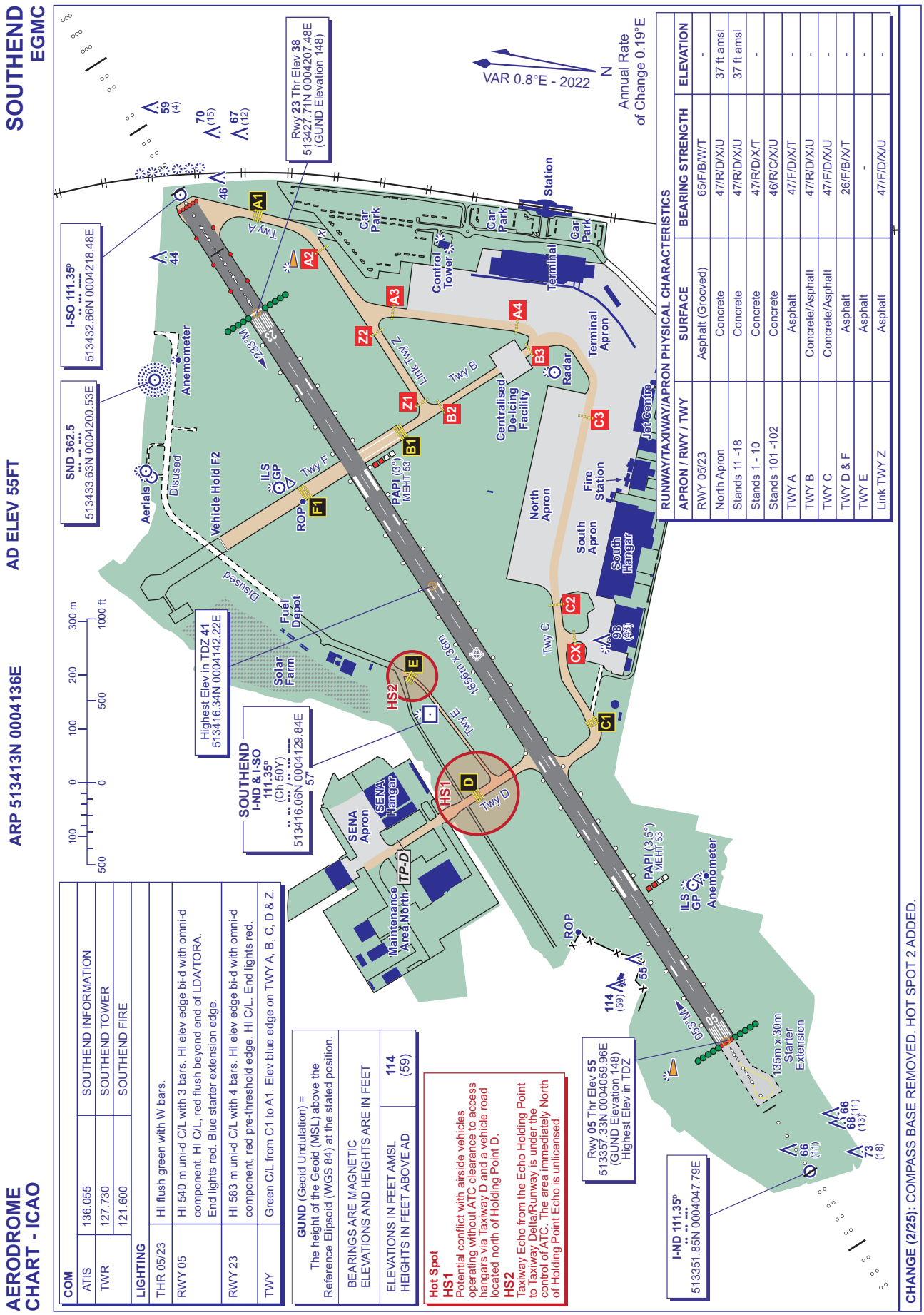
INTENTIONALLY BLANK

AERODROME CHART - ICAO

SOUTHEND EGMC

AD ELEV 55FT

ARP 513413N 0004136E



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 05/23	Asphalt (Grooved)	65/F/B/W/T	-
North Apron	Concrete	47/R/D/X/U	37 ft amsl
Stands 11 -18	Concrete	47/R/D/X/U	37 ft amsl
Stands 1 - 10	Concrete	47/R/D/X/T	-
Stands 101 -102	Concrete	46/R/C/X/U	
TWY A	Asphalt	47/F/D/X/T	-
TWY B	Concrete/Asphalt	47/R/D/X/U	-
TWY C	Concrete/Asphalt	47/F/D/X/U	-
TWY D & F	Asphalt	26/F/B/X/T	-
TWY E	Asphalt	-	-
Link TWY Z	Asphalt	47/F/D/X/U	-

COM		
ATIS	136.055	SOUTHEND INFORMATION
TWR	127.730	SOUTHEND TOWER
	121.600	SOUTHEND FIRE
LIGHTING		
THR 05/23	HI flush green with W bars.	
RWY 05	HI 540 m uni-d C/L with 3 bars. HI elev edge bi-d with omni-d component. HI C/L, red flush beyond end of LDA/TORA. End lights red. Blue starter extension edge.	
RWY 23	HI 583 m uni-d C/L with 4 bars. HI elev edge bi-d with omni-d component, red pre-threshold edge. HI C/L. End lights red.	
TWY	Green C/L from C1 to A1. Elev blue edge on TWY A, B, C, D & Z.	

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL / HEIGHTS IN FEET ABOVE AD: 114 (59)

Hot Spot

HS1
Potential conflict with airside vehicles operating without ATC clearance to access hangars via Taxiway D and a vehicle road located north of Holding Point D.

HS2
Taxiway Echo from the Echo Holding Point to Taxiway Delta/Runway is under the control of ATC. The area immediately North of Holding Point Echo is unlicensed.

CHANGE (2/25): COMPASS BASE REMOVED. HOT SPOT 2 ADDED.

AERO INFO DATE 26 NOV 24

AD 2-EGMC-2-1

AIRCRAFT PARKING/DOCKING CHART - ICAO

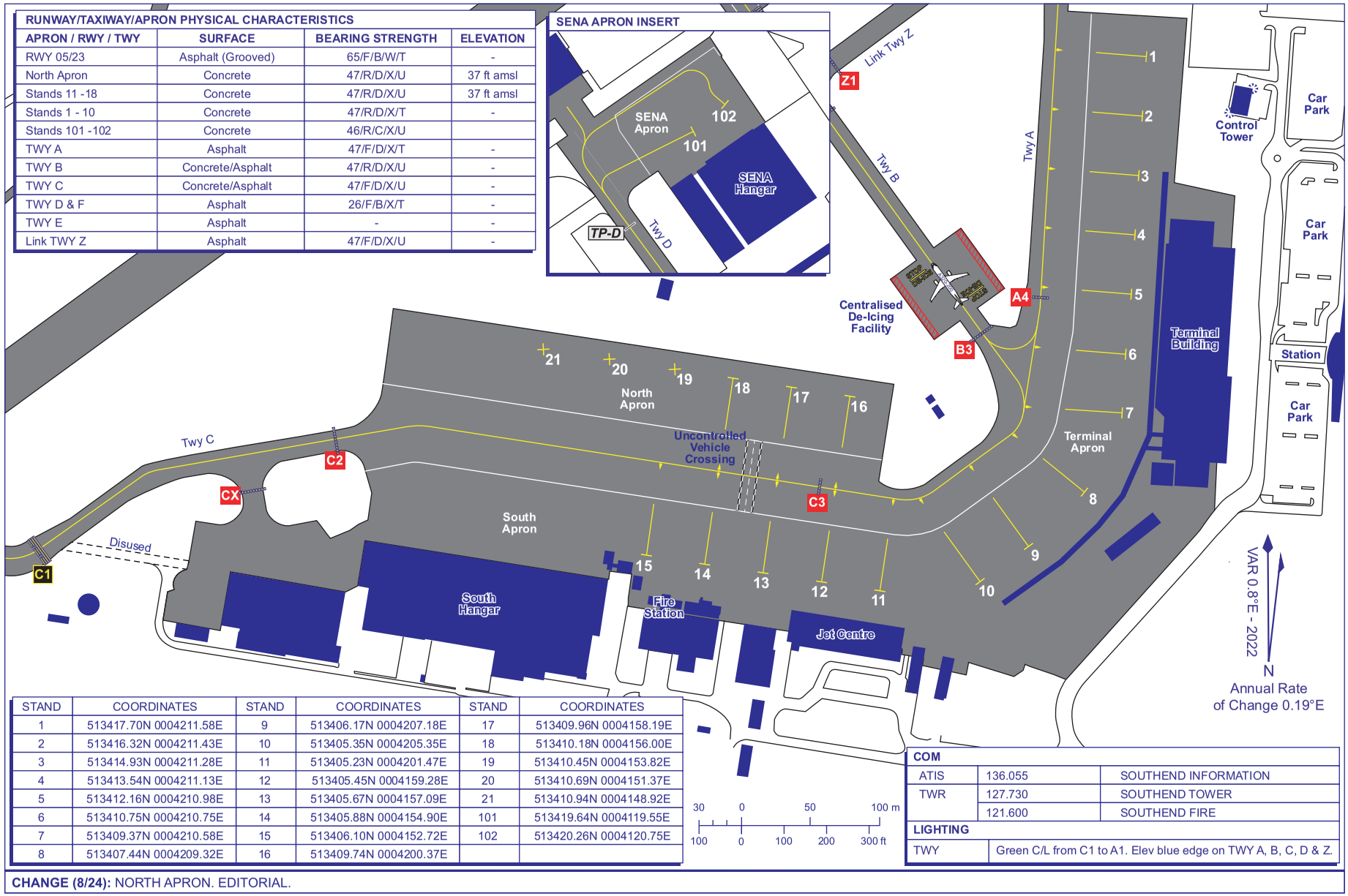
ARP 513413N 0004136E

AD ELEV 55FT

SOUTHEND
EGMC

AERO INFO DATE 31 MAY 24

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 05/23	Asphalt (Grooved)	65/F/B/W/T	-
North Apron	Concrete	47/R/D/X/U	37 ft amsl
Stands 11 -18	Concrete	47/R/D/X/U	37 ft amsl
Stands 1 - 10	Concrete	47/R/D/X/T	-
Stands 101 -102	Concrete	46/R/C/X/U	
TWY A	Asphalt	47/F/D/X/T	-
TWY B	Concrete/Asphalt	47/R/D/X/U	-
TWY C	Concrete/Asphalt	47/F/D/X/U	-
TWY D & F	Asphalt	26/F/B/X/T	-
TWY E	Asphalt	-	-
Link TWY Z	Asphalt	47/F/D/X/U	-



STAND	COORDINATES	STAND	COORDINATES	STAND	COORDINATES
1	513417.70N 0004211.58E	9	513406.17N 0004207.18E	17	513409.96N 0004158.19E
2	513416.32N 0004211.43E	10	513405.35N 0004205.35E	18	513410.18N 0004156.00E
3	513414.93N 0004211.28E	11	513405.23N 0004201.47E	19	513410.45N 0004153.82E
4	513413.54N 0004211.13E	12	513405.45N 0004159.28E	20	513410.69N 0004151.37E
5	513412.16N 0004210.98E	13	513405.67N 0004157.09E	21	513410.94N 0004148.92E
6	513410.75N 0004210.75E	14	513405.88N 0004154.90E	101	513419.64N 0004119.55E
7	513409.37N 0004210.58E	15	513406.10N 0004152.72E	102	513420.26N 0004120.75E
8	513407.44N 0004209.32E	16	513409.74N 0004200.37E		

COM		
ATIS	136.055	SOUTHEND INFORMATION
TWR	127.730	SOUTHEND TOWER
	121.600	SOUTHEND FIRE
LIGHTING		
TWY	Green C/L from C1 to A1. Elev blue edge on TWY A, B, C, D & Z.	

CHANGE (8/24): NORTH APRON. EDITORIAL.

CONTROL ZONE AND CONTROL AREA CHART — SOUTHEND



ATS AIRSPACE VERTICAL LIMITS
Controlled airspace with an upper vertical limit of FL195 and above is not shown.

LATERAL LIMITS
Detailed description of FIR, UIR, CTA and TMA see ENR 2.1. Detailed description of air traffic services airspace organized at the aerodrome see AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 23 JAN 25

AD 2-EGMC-4-1

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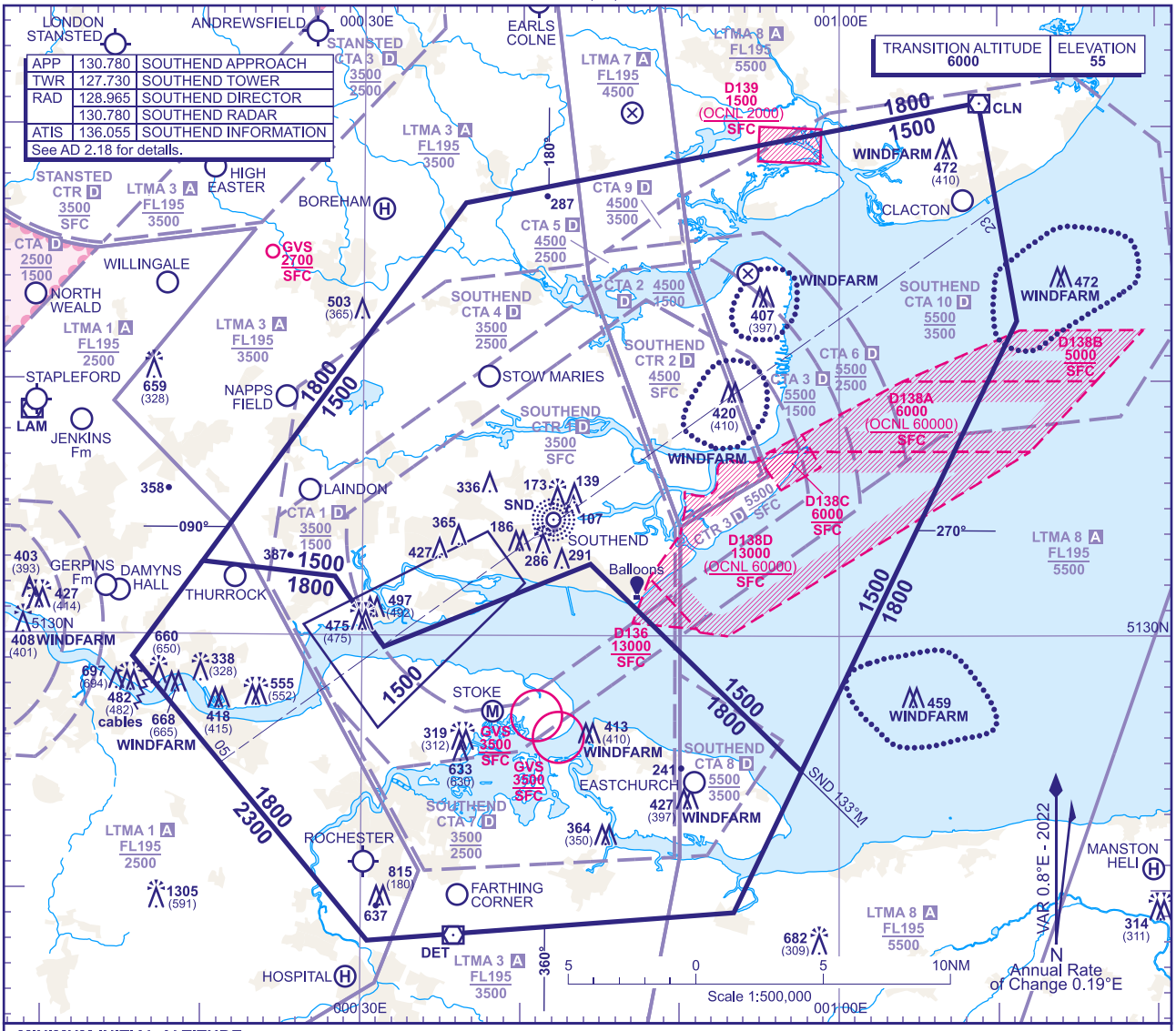
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1305
HEIGHTS IN FEET AGL (591)

SOUTHEND



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1500** in the sector defined by the lateral limits; 513252N 0001957E - 514659N 0003625E - 515056N 0010848E - 514222N 0011113E - 512442N 0005738E - 513249N 0004421E - 512933N 0003123E - 513218N 0002817E - 513252N 0001957E.

b) **1800** in the sector defined by the lateral limits; 512907N 0001535E - 513252N 0001957E - 513218N 0002817E - 512933N 0003123E - 513249N 0004421E - 512442N 0005738E - 511909N 0005324E - 511801N 0003025E - 512907N 0001535E.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2000**, or last assigned level if higher to **NDB(L) SND**†.

Intermedlate and FInal Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) SND**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of NDB SND.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.**

CHANGE (4/25): HOSPITAL HELI ADDED.

AERO INFO DATE 23 JAN 25

AD 2-EGMC-5-1

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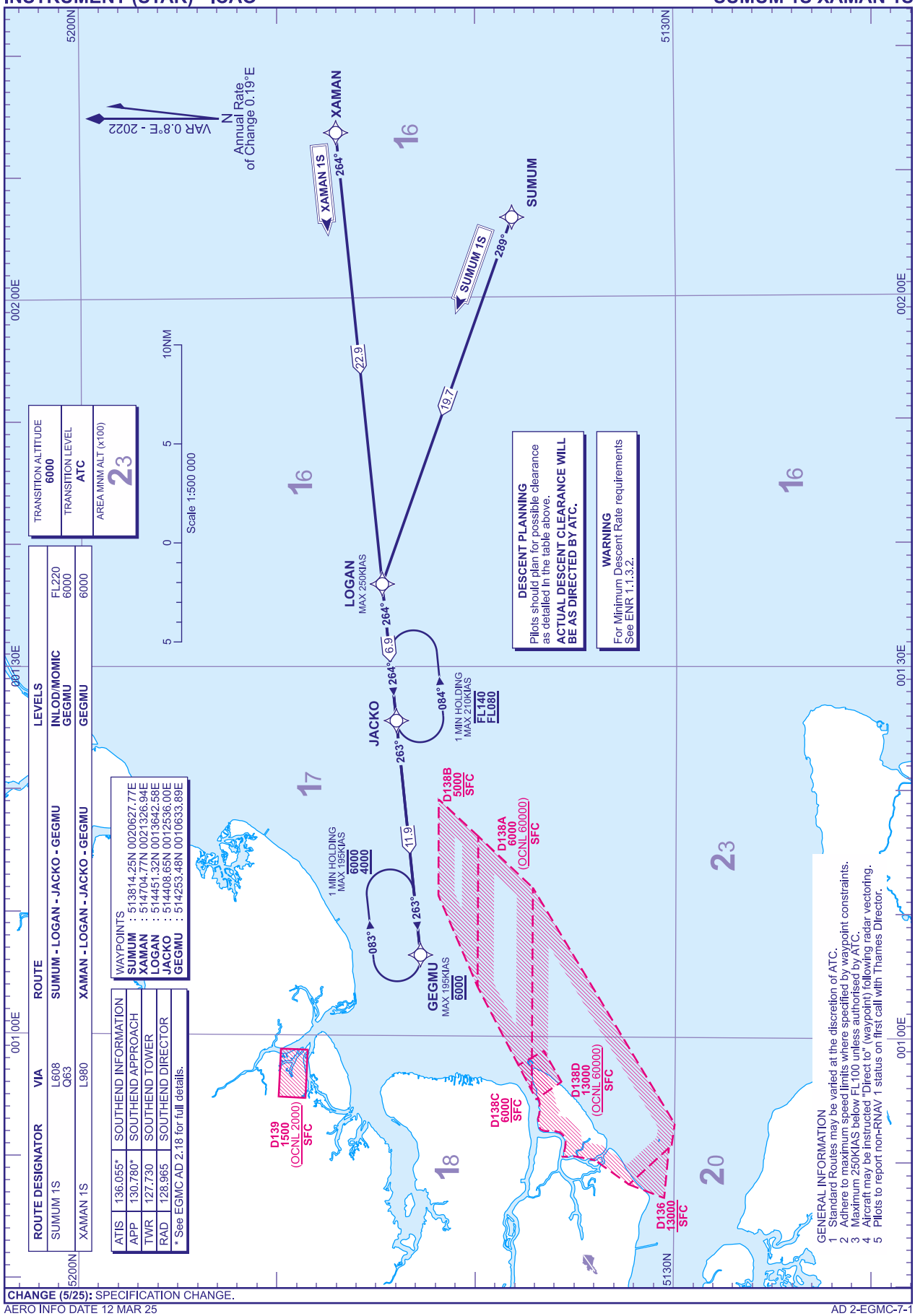
RNAV5 (VOR/DME, DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

SOUTHEND
RWY 05/23
SUMUM 1S XAMAN 1S



ROUTE DESIGNATOR	VIA	ROUTE	LEVELS	
SUMUM 1S	L608 Q63	SUMUM - LOGAN - JACKO - GEGMU	INLOD/MOMIC GEGMU	FL220 6000
XAMAN 1S	L980	XAMAN - LOGAN - JACKO - GEGMU	GEGMU	6000

WAYPOINTS
SUMUM : 513814.25N 0020627.77E
XAMAN : 514704.77N 0021326.94E
LOGAN : 514451.32N 0013642.58E
JACKO : 514408.65N 0012536.00E
GEGMU : 514253.48N 0010633.89E

ATIS	136.055*
APP	130.780*
TWR	127.730
RAD	128.965

SOUTHEND INFORMATION
SOUTHEND APPROACH
SOUTHEND TOWER
SOUTHEND DIRECTOR

* See EGMC AD 2.18 for full details.

GENERAL INFORMATION
1 Standard Routes may be varied at the discretion of ATC.
2 Adhere to maximum speed limits where specified by waypoint constraints.
3 Maximum 250KIAS below FL100 unless authorised by ATC.
4 Aircraft may be instructed "Direct to" (waypoint) following radar vectoring.
5 Pilots to report non-RNAV 1 status on first call with Thames Director.

CHANGE (5/25): SPECIFICATION CHANGE.
AERO INFO DATE 12 MAR 25

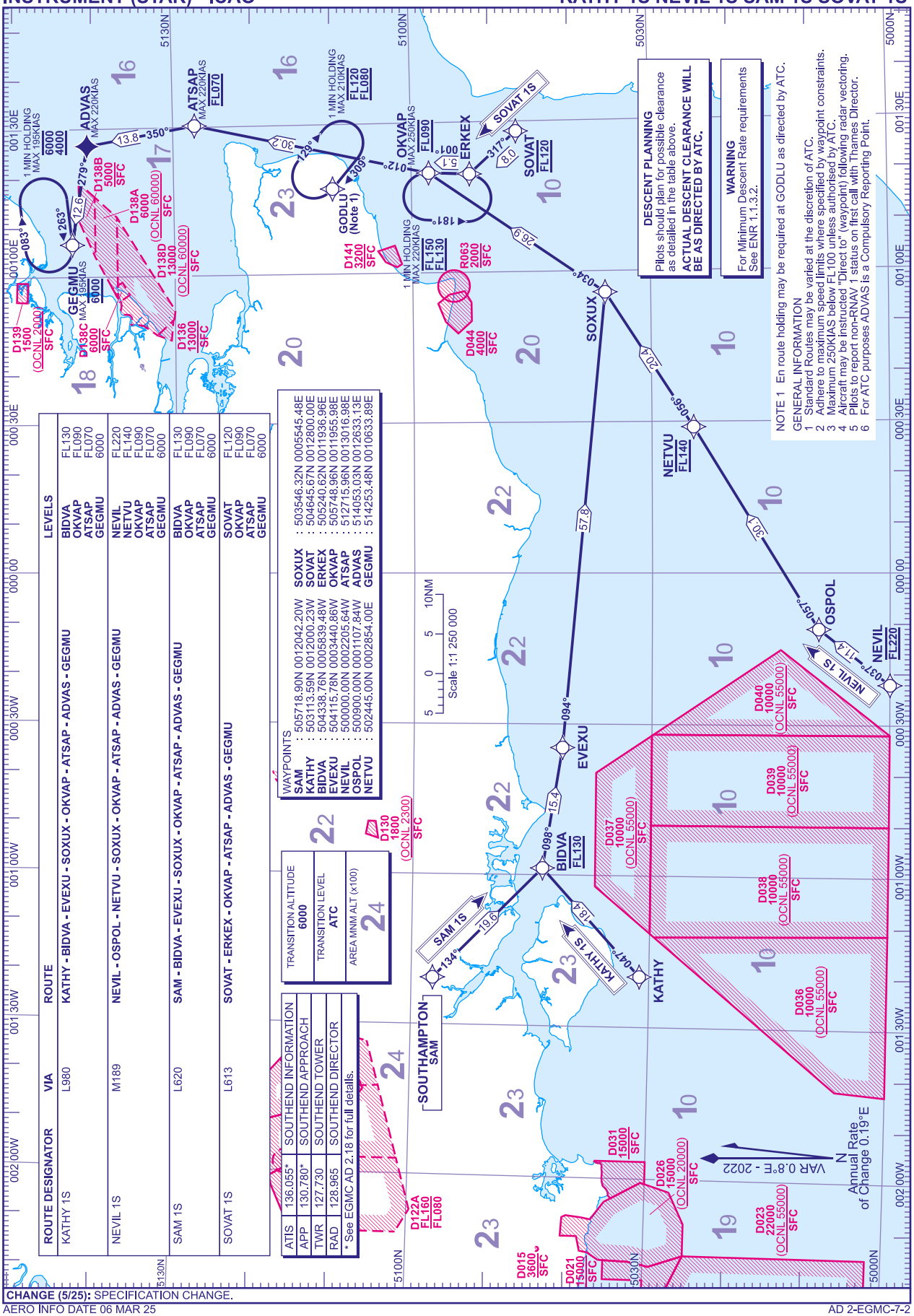
AD 2-EGMC-7-1

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

SOUTHEND
RWY 05/23

KATHY 1S NEVIL 1S SAM 1S SOVAT 1S



CHANGE (5/25): SPECIFICATION CHANGE.
AERO INFO DATE 06 MAR 25

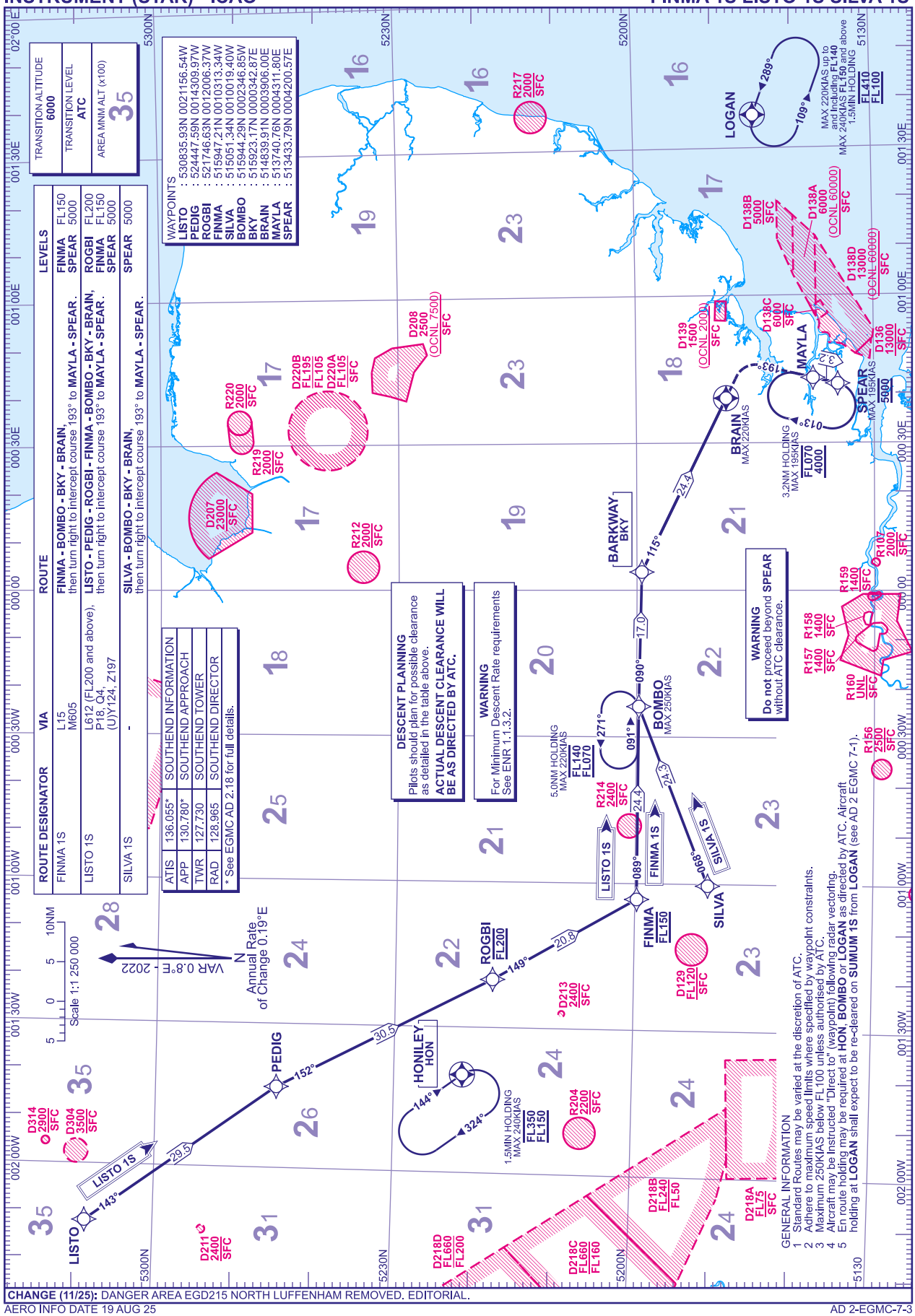
AD 2-EGMC-7-2

RNAV5 (DME/DME or GNSS) STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DISTANCES IN NAUTICAL MILES
TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS ARE IN FEET

SOUTHEND
RWY 05/23

FINMA 1S LISTO 1S SILVA 1S



CHANGE (11/25): DANGER AREA EGD215 NORTH LUFFENHAM REMOVED. EDITORIAL.

AERO INFO DATE 19 AUG 25

AD 2-EGMC-7-3

Standard Instrument Arrival Coding Tables

SOUTHEND Runway 05/23 SUMUM 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SUMUM1S	001	IF	SUMUM	513814.25N 0020627.77E	N	-	-	-	-	-	-	RNAV5
SUMUM1S	002	TF	LOGAN	514451.32N 0013642.58E	N	289° (289.9°)	0.8	19.7	LEFT	-	-250	RNAV5
SUMUM1S	003	TF	JACKO	514408.65N 0012536.00E	N	264° (264.3°)	0.8	6.9	-	-	-250	RNAV5
SUMUM1S	004	TF	GEGMU	514253.48N 0010633.89E	N	263° (264.0°)	0.8	11.9	-	6000	-195	RNAV5

SOUTHEND Runway 05/23 XAMAN 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
XAMAN1S	001	IF	XAMAN	514704.77N 0021326.94E	N	-	-	-	-	-	-	RNAV5
XAMAN1S	002	TF	LOGAN	514451.32N 0013642.58E	N	264° (264.6°)	0.8	22.9	-	-	-250	RNAV5
XAMAN1S	003	TF	JACKO	514408.65N 0012536.00E	N	264° (264.3°)	0.8	6.9	-	-	-250	RNAV5
XAMAN1S	004	TF	GEGMU	514253.48N 0010633.89E	N	263° (264.0°)	0.8	11.9	-	6000	-195	RNAV5

SOUTHEND Runway 05/23 SOVAT 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SOVAT1S	001	IF	SOVAT	504645.67N 0012800.00E	N	-	-	-	-	FL120	-	RNAV5
SOVAT1S	002	TF	ERKEX	505240.62N 0011936.96E	N	317° (318.1°)	0.8	8.0	RIGHT	-	-	RNAV5
SOVAT1S	003	TF	OKVAP	505748.96N 0011955.98E	N	001° (002.2°)	0.8	5.1	RIGHT	FL090	-250	RNAV5
SOVAT1S	004	TF	ATSAP	512715.96N 0013016.98E	N	012° (012.4°)	0.8	30.2	LEFT	FL070	-220	RNAV5
SOVAT1S	005	TF	ADVAS	514053.03N 0012633.13E	N	350° (350.3°)	0.8	13.8	LEFT	-	-220	RNAV5
SOVAT1S	006	TF	GEGMU	514253.48N 0010633.89E	N	279° (279.3°)	0.8	12.6	-	6000	-195	RNAV5

SOUTHEND Runway 05/23 KATHY 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
KATHY1S	001	TF	KATHY	503113.59N 0012000.23W	N	-	-	-	-	-	-	RNAV5
KATHY1S	002	TF	BIDVA	504338.76N 0005839.48W	N	047° (047.4°)	0.8	18.4	RIGHT	FL130	-	RNAV5
KATHY1S	003	TF	EVEXU	504115.78N 0003440.86W	N	098° (098.7°)	0.8	15.4	LEFT	-	-	RNAV5
KATHY1S	004	TF	SOXUX	503546.32N 0005545.48E	N	094° (094.9°)	0.8	57.8	LEFT	-	-	RNAV5
KATHY1S	005	TF	OKVAP	505748.96N 0011955.98E	N	034° (034.7°)	0.8	26.9	LEFT	FL090	-250	RNAV5
KATHY1S	006	TF	ATSAP	512715.96N 0013016.98E	N	012° (012.4°)	0.8	30.2	LEFT	FL070	-220	RNAV5
KATHY1S	007	TF	ADVAS	514053.03N 0012633.13E	N	350° (350.3°)	0.8	13.8	LEFT	-	-220	RNAV5
KATHY1S	008	TF	GEGMU	514253.48N 0010633.89E	N	279° (279.3°)	0.8	12.6	-	6000	-195	RNAV5

CHANGE (5/25): NEW SPECIFICATION.
AERO INFO DATE 04 MAR 25

Standard Instrument Arrival Coding Tables

SOUTHEND Runway 05/23 NEVIL 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
NEVIL1S	001	IF	NEVIL	500000.00N 0002205.64W	N	-	-	-	-	FL220	-	RNAV5
NEVIL1S	002	TF	OSPOL	500900.00N 0001107.84W	N	037° (038.0°)	0.8	11.4	RIGHT	-	-	RNAV5
NEVIL1S	003	TF	NETVU	502445.00N 0002854.00E	N	057° (058.2°)	0.8	30.1	-	FL140	-	RNAV5
NEVIL1S	004	TF	SOXUX	503546.32N 0005545.48E	N	056° (057.1°)	0.8	20.4	LEFT	-	-	RNAV5
NEVIL1S	005	TF	OKVAP	505748.96N 0011955.98E	N	034° (034.7°)	0.8	26.9	LEFT	FL090	-250	RNAV5
NEVIL1S	006	TF	ATSAP	512715.96N 0013016.98E	N	012° (012.4°)	0.8	30.2	LEFT	FL070	-220	RNAV5
NEVIL1S	007	TF	ADVAS	514053.03N 0012633.13E	N	350° (350.3°)	0.8	13.8	LEFT	-	-220	RNAV5
NEVIL1S	008	TF	GEGMU	514253.48N 0010633.89E	N	279° (279.3°)	0.8	12.6	-	6000	-195	RNAV5

SOUTHEND Runway 05/23 SAM 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SAM1S	001	IF	SAM	505718.90N 0012042.20W	N	-	-	-	-	-	-	RNAV5
SAM1S	002	TF	BIDVA	504338.76N 0005839.48W	N	134° (134.3°)	0.8	19.6	LEFT	FL130	-	RNAV5
SAM1S	003	TF	EVEXU	504115.78N 0003440.86W	N	098° (098.7°)	0.8	15.4	LEFT	-	-	RNAV5
SAM1S	004	TF	SOXUX	503546.32N 0005545.48E	N	094° (094.9°)	0.8	57.8	LEFT	-	-	RNAV5
SAM1S	005	TF	OKVAP	505748.96N 0011955.98E	N	034° (034.7°)	0.8	26.9	LEFT	FL090	-250	RNAV5
SAM1S	006	TF	ATSAP	512715.96N 0013016.98E	N	012° (012.4°)	0.8	30.2	LEFT	FL070	-220	RNAV5
SAM1S	007	TF	ADVAS	514053.03N 0012633.13E	N	350° (350.3°)	0.8	13.8	LEFT	-	-220	RNAV5
SAM1S	008	TF	GEGMU	514253.48N 0010633.89E	N	279° (279.3°)	0.8	12.6	-	6000	-195	RNAV5

SOUTHEND Runway 05/23 SILVA 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SILVA1S	001	IF	SILVA	515051.34N 0010019.40W	N	-	-	-	-	-	-	RNAV5
SILVA1S	002	TF	BOMBO	515944.29N 0002346.85W	N	068° (068.3°)	0.8	24.3	RIGHT	-	-250	RNAV5
SILVA1S	003	TF	BKY	515923.17N 0000342.87E	N	090° (091.0°)	0.8	17.0	RIGHT	-	-	RNAV5
SILVA1S	004	TF	BRAIN	514839.91N 0003906.00E	Y	115° (115.9°)	0.8	24.4	RIGHT	-	-220	RNAV5
SILVA1S	005	CF	MAYLA	513740.76N 0004311.80E	N	193° (193.4°)	0.8	-	-	-	-	RNAV5
SILVA1S	006	TF	SPEAR	513433.79N 0004200.57E	N	193° (193.4°)	0.8	3.2	-	5000	-195	RNAV5

CHANGE (5/25): NEW SPECIFICATION.
AERO INFO DATE 12 MAR 25

Standard Instrument Arrival Coding Tables

SOUTHEND Runway 05/23 FINMA 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
FINMA1S	001	IF	FINMA	515947.21N 0010313.34W	N	-	-	-	-	FL150	-	RNAV5
FINMA1S	002	TF	BOMBO	515944.29N 0002346.85W	N	089° (089.9°)	0.8	24.4	-	-	-250	RNAV5
FINMA1S	003	TF	BKY	515923.17N 0000342.87E	N	090° (091.0°)	0.8	17.0	RIGHT	-	-	RNAV5
FINMA1S	004	TF	BRAIN	514839.91N 0003906.00E	Y	115° (115.9°)	0.8	24.4	RIGHT	-	-220	RNAV5
FINMA1S	005	CF	MAYLA	513740.76N 0004311.80E	N	193° (193.4°)	0.8	-	-	-	-	RNAV5
FINMA1S	006	TF	SPEAR	513433.79N 0004200.57E	N	193° (193.4°)	0.8	3.2	-	5000	-195	RNAV5

SOUTHEND Runway 05/23 LISTO 1S

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LISTO1S	001	IF	LISTO	530835.93N 0021156.54W	N	-	-	-	-	-	-	RNAV5
LISTO1S	002	TF	PEDIG	524447.59N 0014309.97W	N	143° (143.7°)	0.8	29.5	RIGHT	-	-	RNAV5
LISTO1S	003	TF	ROGBI	521746.63N 0012006.37W	N	152° (152.3°)	0.8	30.5	LEFT	FL200	-	RNAV5
LISTO1S	004	TF	FINMA	515947.21N 0010313.34W	N	149° (149.9°)	0.8	20.8	LEFT	FL150	-	RNAV5
LISTO1S	005	TF	BOMBO	515944.29N 0002346.85W	N	089° (089.9°)	0.8	24.4	-	-	-250	RNAV5
LISTO1S	006	TF	BKY	515923.17N 0000342.87E	N	090° (091.0°)	0.8	17.0	RIGHT	-	-	RNAV5
LISTO1S	007	TF	BRAIN	514839.91N 0003906.00E	Y	115° (115.9°)	0.8	24.4	RIGHT	-	-220	RNAV5
LISTO1S	008	CF	MAYLA	513740.76N 0004311.80E	N	193° (193.4°)	0.8	-	-	-	-	RNAV5
LISTO1S	009	TF	SPEAR	513433.79N 0004200.57E	N	193° (193.4°)	0.8	3.2	-	5000	-195	RNAV5

CHANGE (5/25): NEW SPECIFICATION.
AERO INFO DATE 06 FEB 25

RNAV Hold Coding Tables

SOUTHEND BOMBO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
BOMBO	-	-	BOMBO	515944.29N 0002346.85W	Y	091° (091.4°)	0.8	5.0	LEFT	-FL140 +FL070	-220	RNAV5

SOUTHEND GEGMU Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GEGMU	-	-	GEGMU	514253.48N 0010633.89E	Y	263° (263.9°)	0.8	1 MIN	RIGHT	-6000 +4000	-195	RNAV1

SOUTHEND GODLU Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
GODLU	-	-	GODLU	510958.44N 0011704.26E	Y	309° (310.0°)	0.8	1 MIN	RIGHT	-FL120 +FL080	-210	RNAV5

SOUTHEND HON Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
HON	-	-	HON	522124.04N 0013949.41W	Y	144° (144.8°)	0.8	1.5 MIN	RIGHT	-FL350 +FL150	-240	RNAV5

SOUTHEND JACKO Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
JACKO	-	-	JACKO	514408.65N 0012536.00E	Y	264° (264.3°)	0.8	1 MIN	LEFT	-FL140 +FL080	-210	RNAV5

SOUTHEND LOGAN Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
LOGAN	-	-	LOGAN	514451.32N 0013642.58E	Y	289° (289.5°)	0.8	1 MIN up to FL140 1.5 MIN FL150+	LEFT	-FL410 +FL100	-220* -240**	RNAV5

*up to and including FL140
**FL150 and above

SOUTHEND OKVAP Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Time (MIN)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
OKVAP	-	-	OKVAP	505748.96N 0011955.98E	Y	001° (002.2°)	0.8	1 MIN	LEFT	-FL150 +FL130	-220	RNAV5

SOUTHEND SPEAR Hold

Designator	Sequence Number	Path Term-inator	Waypoint Name	Co-ordinates	Fly-over	Course/ Track °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Level Constraint	Speed Constraint	Navigation Performance
SPEAR	-	-	SPEAR	513433.79N 0004200.57E	Y	193° (193.3°)	0.8	3.2	RIGHT	-FL070 +4000	-195	RNAV5

CHANGE (5/25): NEW SPECIFICATION.
AERO INFO DATE 25 FEB 25

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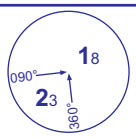
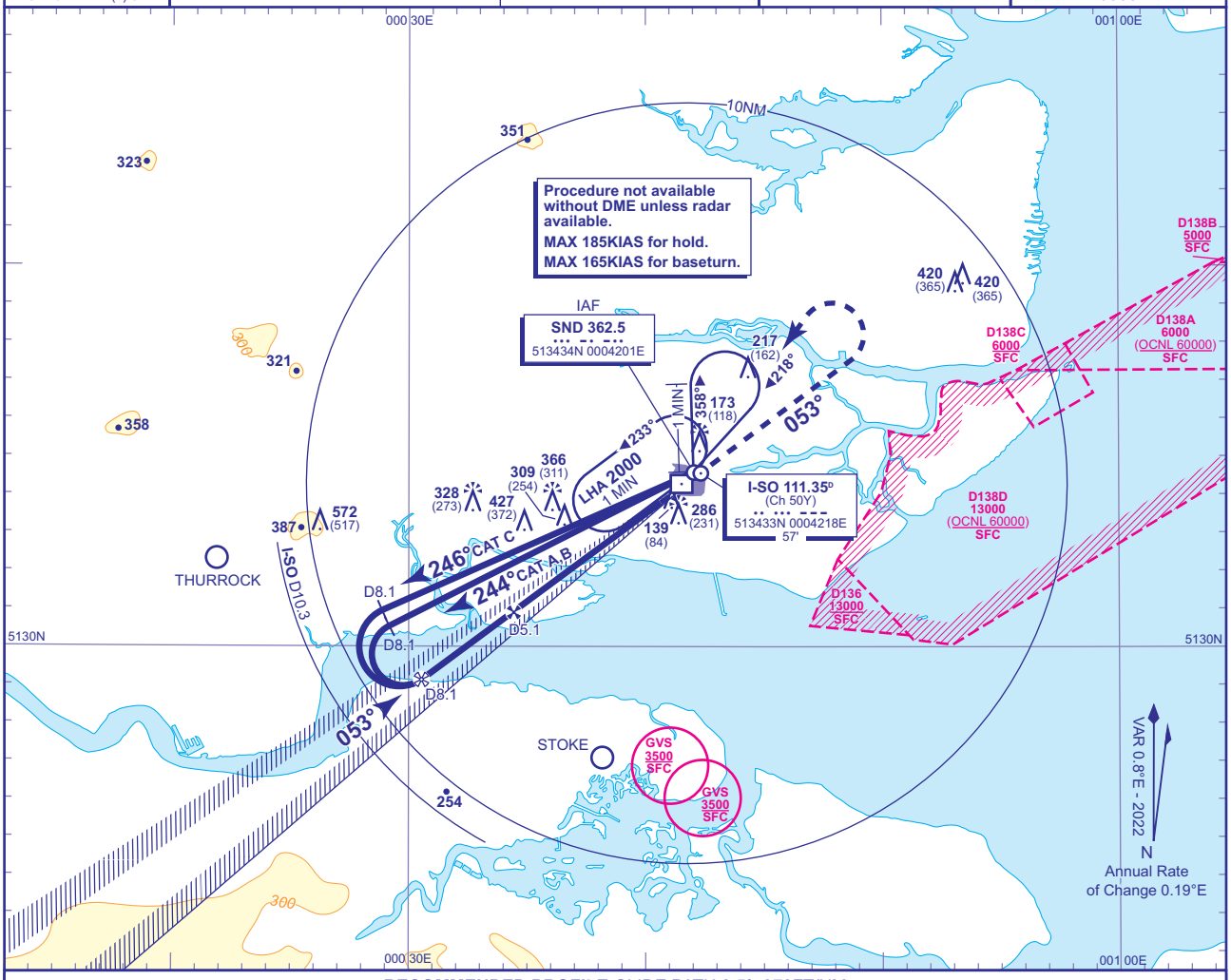
INSTRUMENT APPROACH CHART - ICAO

SOUTHEND
ILS/DME/NDB(L)
RWY 05
(ACFT CAT A,B,C)



MSA 25NM NDB(L) SND

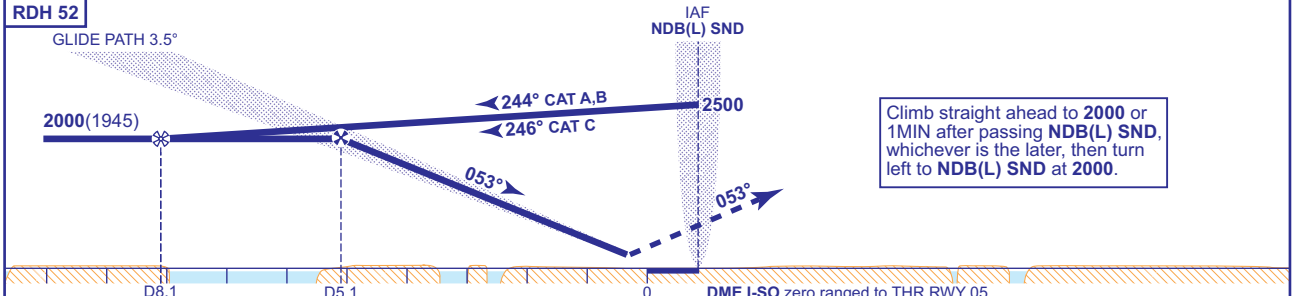
APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	TRANSITION ALTITUDE 6000
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	55	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION 572 AMSL (517) (ABOVE THR)		
	128.965	SOUTHEND DIRECTOR			
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-SO	5	4	3	2	1
ALT(HGT)	**1970** (1915)	**1590** (1535)	**1220** (1165)	**850** (795)	**480** (425)

RDH 52



Climb straight ahead to **2000** or 1MIN after passing **NDB(L) SND**, whichever is the later, then turn left to **NDB(L) SND** at **2000**.

Aircraft Category		A	B	C
OCA (OCH)	CAT I	**248**(193)	**255**(200)	**263**(208)
VM(C)OCA (OCH AAL)	Total Area	**600**(545)	**700**(645)	**900**(845)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

AIRCRAFT UNABLE TO RECEIVE DME I-SO
Advise ATC. Aircraft will be radar vectored onto FAT and radar range passed at 3NM inbound.

NOTES
1. Aircraft will normally be required to hold not lower than **2500**. Lowest altitiude to commence procedure from **NDB(L) SND** following Missed Approach is **2000**.
2. Maximum 185KIAS for hold and 165KIAS base turns.
3. Do not exceed I-SO D10.3 to remain within controlled airspace.

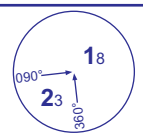
CHANGE (1/25): DIRECT ARRIVAL REMOVED.

AERO INFO DATE 30 OCT 24

AD 2-EGMC-8-1

INSTRUMENT APPROACH CHART - ICAO

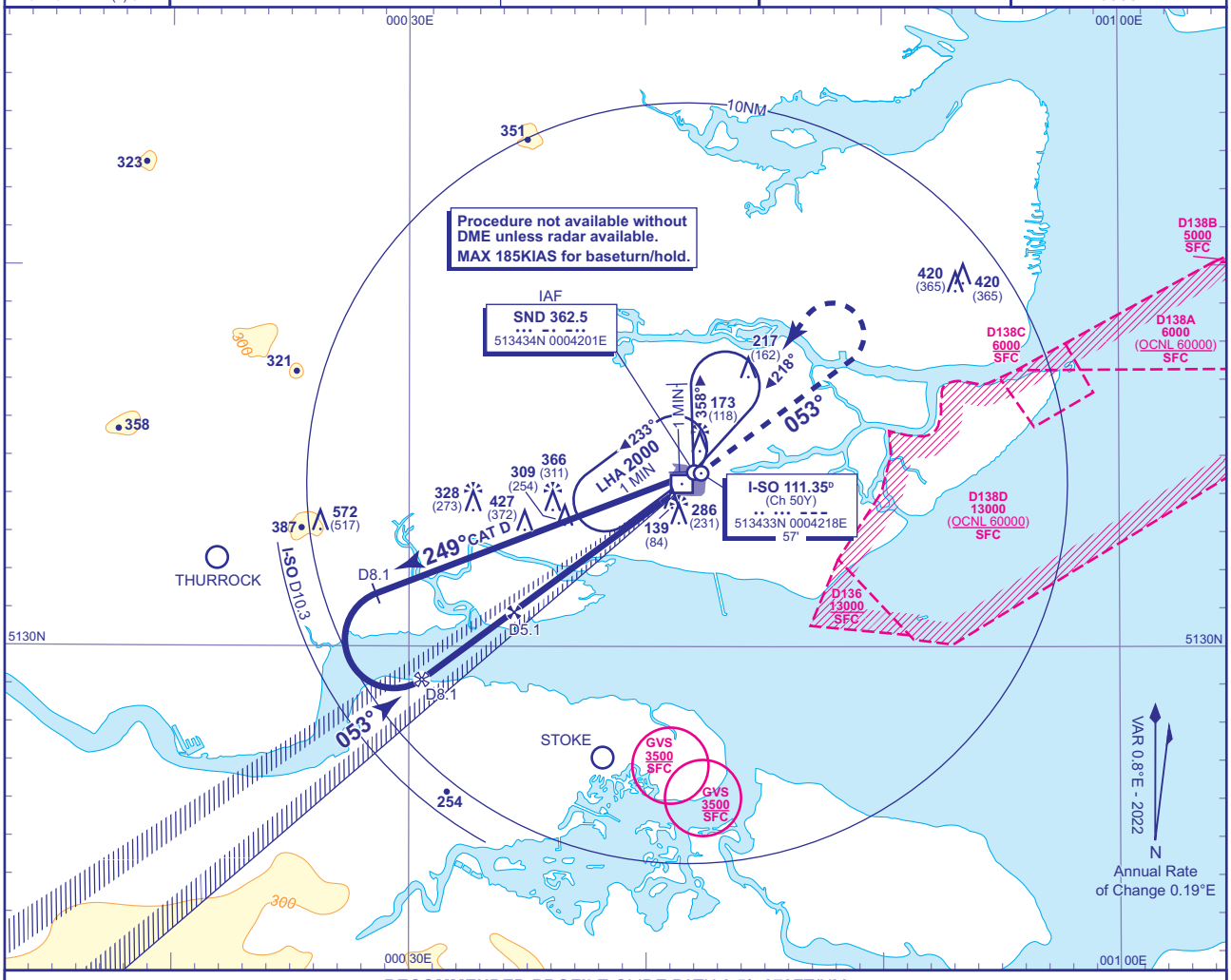
SOUTHEND ILS/DME/NDB(L) RWY 05 (ACFT CAT D)



MSA 25NM NDB(L) SND

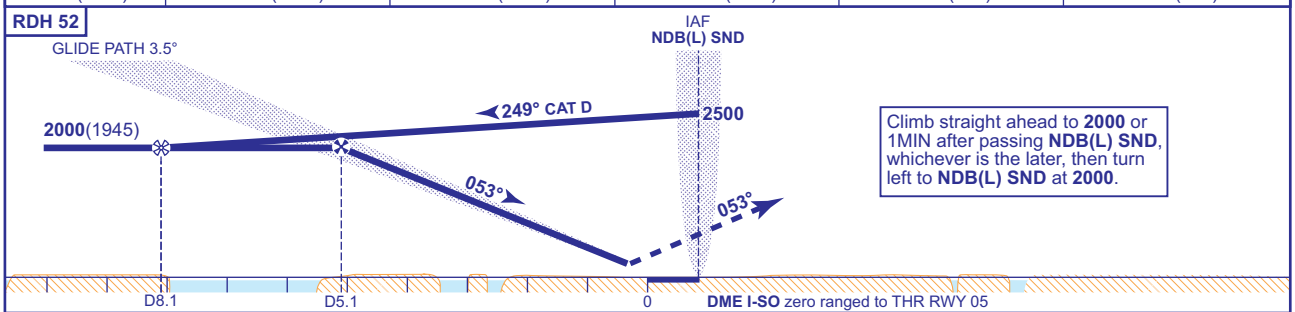
APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	55	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION		
	128.965	SOUTHEND DIRECTOR	572 AMSL (517) (ABOVE THR)		
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE GLIDE PATH 3.5°, 370FT/NM

DME I-SO	5	4	3	2	1
ALT(HGT)	**1970** (1915)	**1590** (1535)	**1220** (1165)	**850** (795)	**480** (425)



Climb straight ahead to **2000** or 1MIN after passing **NDB(L) SND**, whichever is the later, then turn left to **NDB(L) SND** at **2000**.

Aircraft Category		D
OCA (OCH)	CAT I	**272**(217)
VM(C)OCA (OCH AAL)	Total Area	**900**(845) (see note 3)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

AIRCRAFT UNABLE TO RECEIVE DME I-SO Advise ATC. Aircraft will be radar vectored onto FAT and radar range passed at 3NM inbound.

NOTES
1. Aircraft will normally be required to hold not lower than **3000**. Lowest altitiude to commence procedure from **NDB(L) SND** following Missed Approach is **2000**.
2. Maximum 185KIAS for hold and base turns.
3. CAT D circling not authorised south of RWY 05/23 C/L.
4. Do not exceed I-SO D10.3 to remain within controlled airspace.

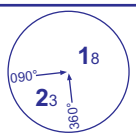
CHANGE (1/25): DIRECT ARRIVAL REMOVED.

AERO INFO DATE 30 OCT 24

AD 2-EGMC-8-2

INSTRUMENT APPROACH CHART - ICAO

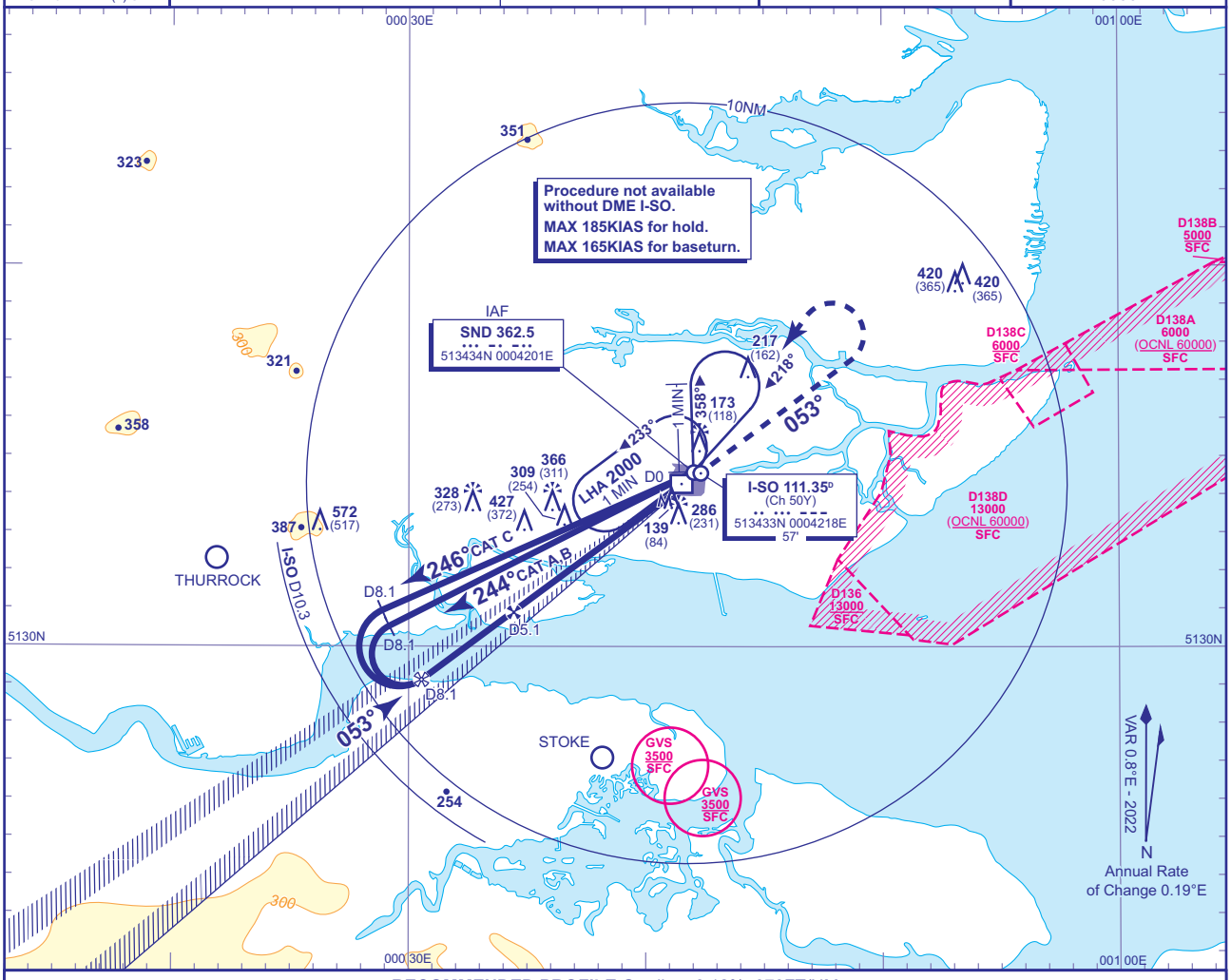
SOUTHEND LOC/DME/NDB(L) RWY 05
(ACFT CAT A,B,C)



MSA 25NM NDB(L) SND

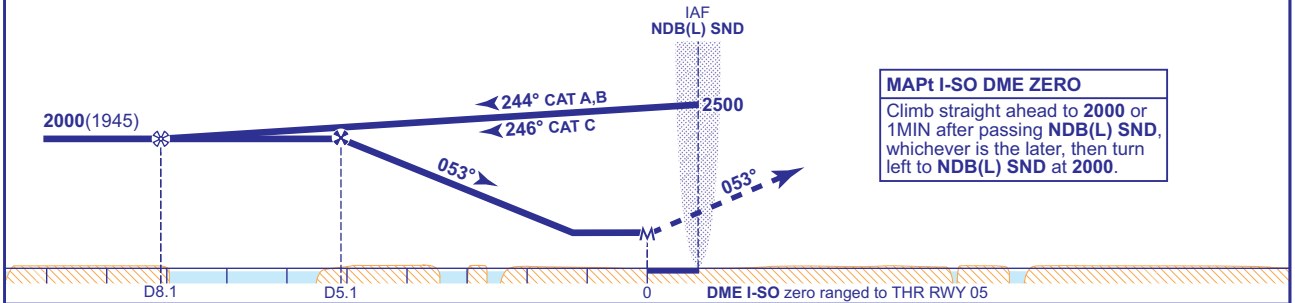
APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	55	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION	572 AMSL (517) (ABOVE THR)	
	128.965	SOUTHEND DIRECTOR			
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 6.12%, 370FT/NM

DME I-SO	5	4	3	2
ALT(HGT)	**1970** (1915)	**1590** (1535)	**1220** (1165)	**850** (795)



MAPt I-SO DME ZERO

Climb straight ahead to **2000** or 1MIN after passing **NDB(L) SND**, whichever is the later, then turn left to **NDB(L) SND** at **2000**.

Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**Procedure**	**580**(525)	**580**(525)	**580**(525)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(545)	**700**(645)	**900**(845)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	740	620	500

NOTES
1. Aircraft will normally be required to hold not lower than **2500**. Lowest altitiude to commence procedure from **NDB(L) SND** following Missed Approach is **2000**.
2. Maximum 185KIAS for hold and 165KIAS base turns.
3. Do not exceed I-SO D10.3 to remain within controlled airspace.

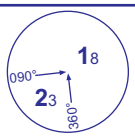
CHANGE (1/25): DIRECT ARRIVAL REMOVED.

AERO INFO DATE 30 OCT 24

AD 2-EGMC-8-3

INSTRUMENT APPROACH CHART - ICAO

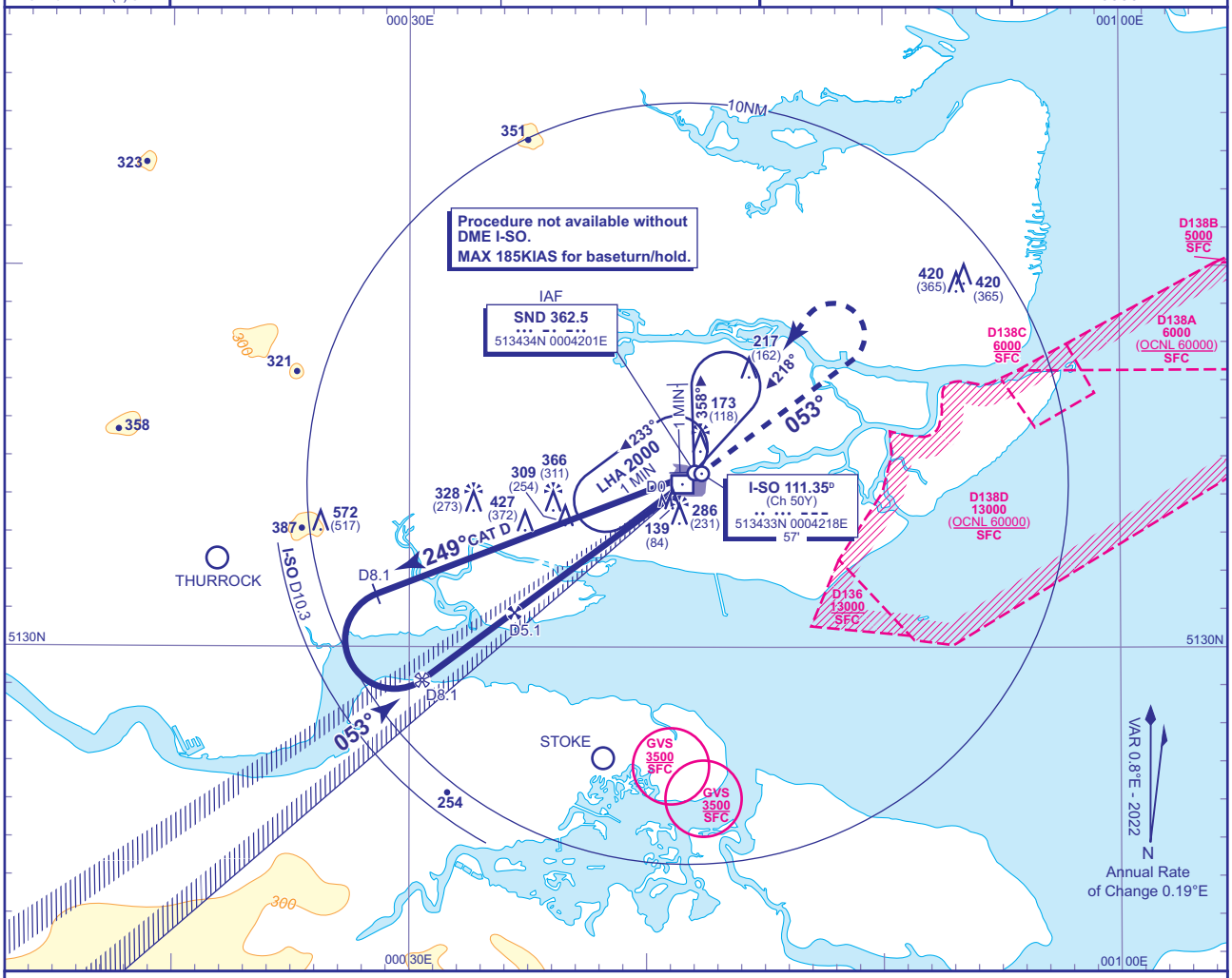
SOUTHEND LOC/DME/NDB(L) RWY 05 (ACFT CAT D)



MSA 25NM NDB(L) SND

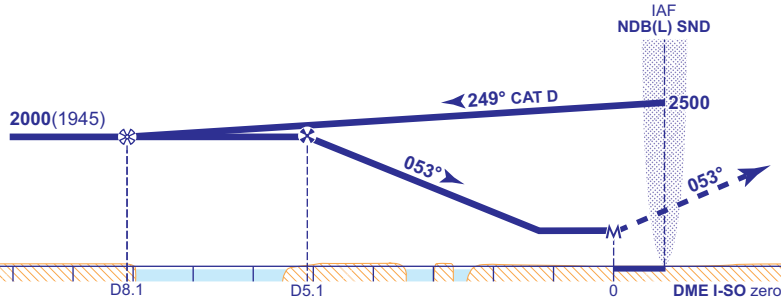
APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	55	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION	572 AMSL (517) (ABOVE THR)	
	128.965	SOUTHEND DIRECTOR			
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 6.12%, 370FT/NM

DME I-SO	5	4	3	2
ALT(HGT)	**1970** (1915)	**1590** (1535)	**1220** (1165)	**850** (795)



MAPt I-SO DME ZERO
Climb straight ahead to **2000** or 1MIN after passing **NDB(L) SND**, whichever is the later, then turn left to **NDB(L) SND** at **2000**.

Aircraft Category		**D**
OCA (OCH)	**Procedure**	**580**(525)
VM(C)OCA (OCH AAL)	**Total Area**	**900**(845) (see note 3)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	990	870	740	620	500

NOTES
1 Aircraft will normally be required to hold not lower than **3000**. Lowest altitiude to commence procedure from **NDB(L) SND** following Missed Approach is **2000**.
2 Maximum 185KIAS for hold and base turns.
3 CAT D circling not authorised south of RWY 05/23 C/L.
4 Do not exceed I-SO D10.3 to remain within controlled airspace.

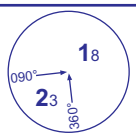
CHANGE (1/25): DIRECT ARRIVAL REMOVED.

AERO INFO DATE 30 OCT 24

AD 2-EGMC-8-4

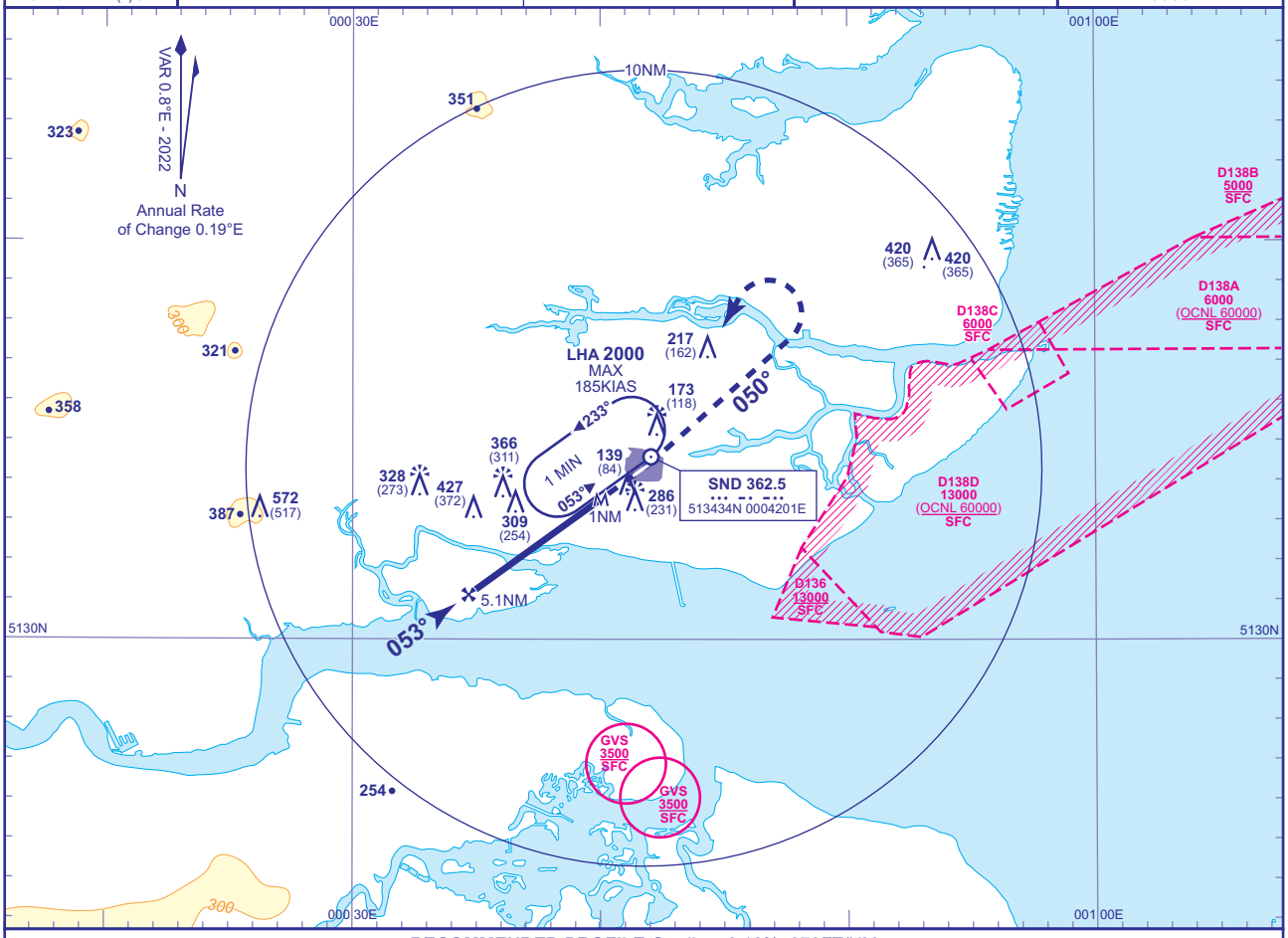
INSTRUMENT APPROACH CHART - ICAO

SOUTHEND
SRA RTR 2NM
RWY 05
(ACFT CAT A,B,C)



MSA 25NM NDB(L) SND

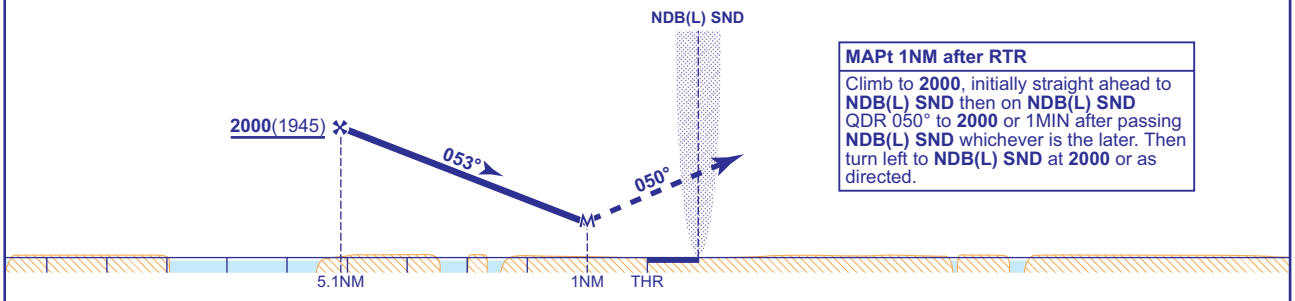
APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	55	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION	572 AMSL (517) (ABOVE THR)	
	128.965	SOUTHEND DIRECTOR			
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



RECOMMENDED PROFILE Gradient 6.12%, 370FT/NM

NM	5.0	4.0	3.0	2.0
ALT(HGT)	**1970**(1915)	**1590**(1535)	**1220**(1165)	**850**(795)

Initial and intermediate approach as directed by radar.



MAPt 1NM after RTR

Climb to **2000**, initially straight ahead to **NDB(L) SND** then on **NDB(L) SND** QDR 050° to **2000** or 1MIN after passing **NDB(L) SND** whichever is the later. Then turn left to **NDB(L) SND** at **2000** or as directed.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**580**(525)	**580**(525)	**580**(525)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(545)	**700**(645)	**900**(845)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500
RTR to MAPT	MIN:SEC	0:23	0:26	0:30	0:36	0:45

NOTE Aircraft will be required to hold not lower than **2500**. Lowest altitude to commence procedure from NDB(L) SND following a missed approach is **2000**.

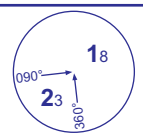
CHANGE (4/24): OCA(OCH) INCREASED. CONTROLLING OBSTACLE ADDED.

AERO INFO DATE 08 FEB 24

AD 2-EGMC-8-5

INSTRUMENT APPROACH CHART - ICAO

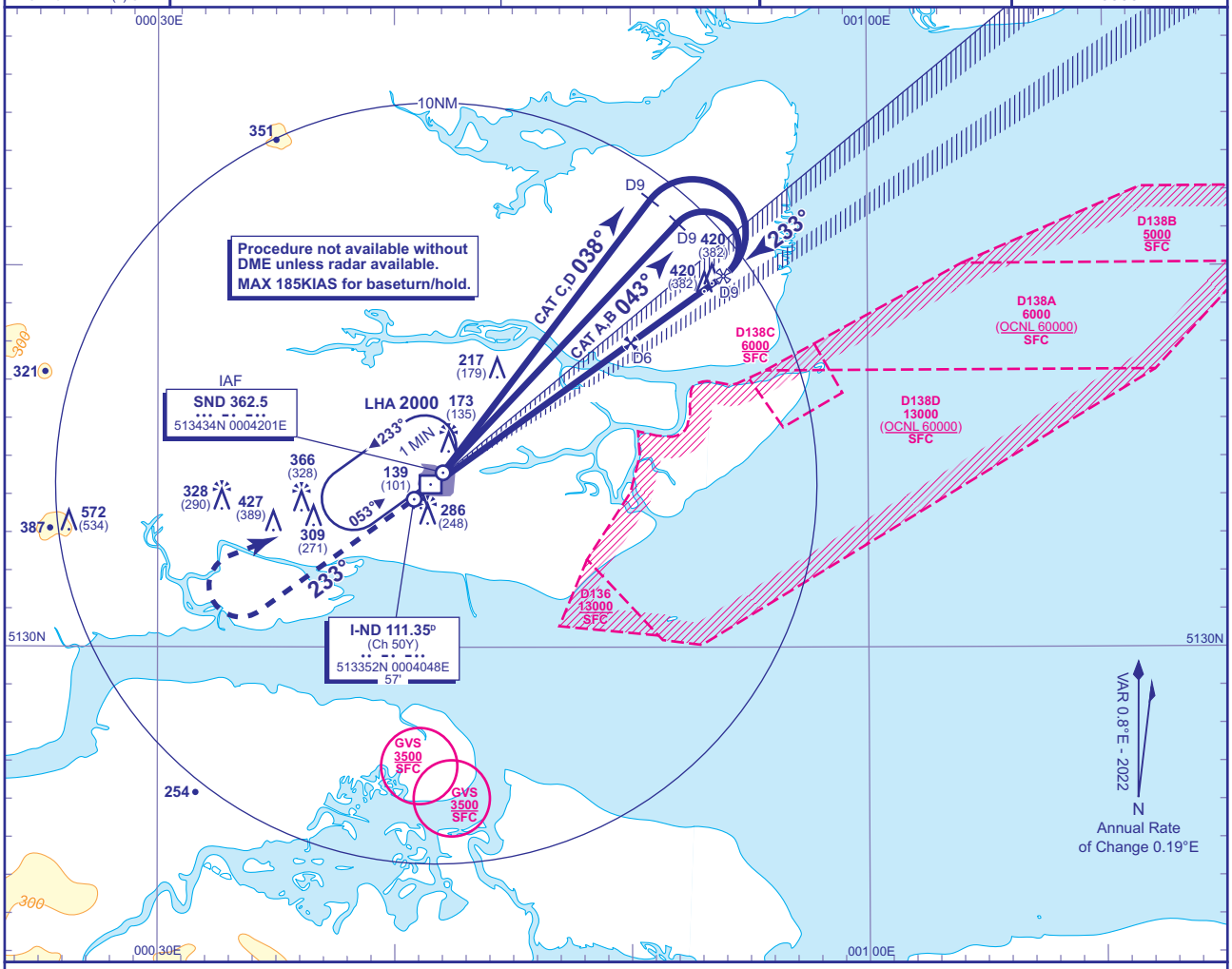
SOUTHEND ILS/DME/NDB(L) RWY 23
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) SND

APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	38	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION		
	128.965	SOUTHEND DIRECTOR	572 AMSL (534) (ABOVE THR)		
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**

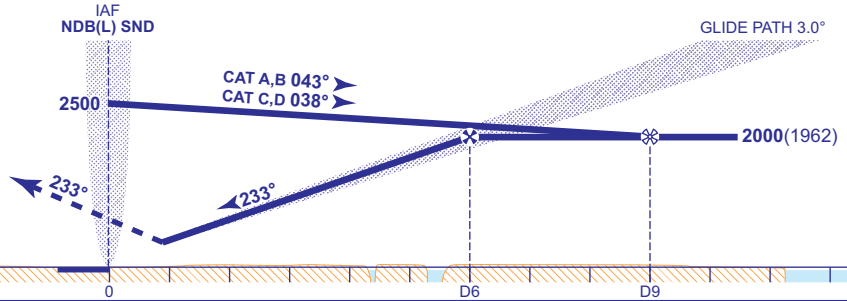


RECOMMENDED PROFILE GLIDE PATH 3.0°, 320FT/NM

DME I-ND	6	5	4	3	2	1
ALT(HGT)	**2000**(1962)	**1680**(1642)	**1360**(1322)	**1050**(1012)	**730**(692)	**410**(372)

RDH 52

Climb straight ahead to **2000** or 1MIN after passing **NDB(L) SND**, whichever is the later, turn right to **NDB(L) SND** at **2000**.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**CAT I**	**196**(158)	**204**(166)	**214**(176)	**223**(185)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(545)	**700**(645)	**900**(845)	**900**(845) (see note 4)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECIEVE DME I-ND Advise ATC. Aircraft will be radar vectored onto FAT and radar range passed at 3NM inbound.

NOTES
1. Aircraft will normally be required to hold not lower than **2500**. Code D aircraft will be required to hold not lower than **3000**. Lowest altitude to commence procedure from NDB(L) SND following a missed approach is **2000**.
2. Maximum 185KIAS for hold and Baseturns.
3. Active danger areas lie adjacent to the localiser course.
4. CAT D circling not authorised south of RWY 05/23 C/L.

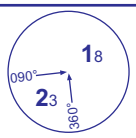
CHANGE (1/25): DIRECT ARRIVAL REMOVED.

AERO INFO DATE 30 OCT 24

AD 2-EGMC-8-6

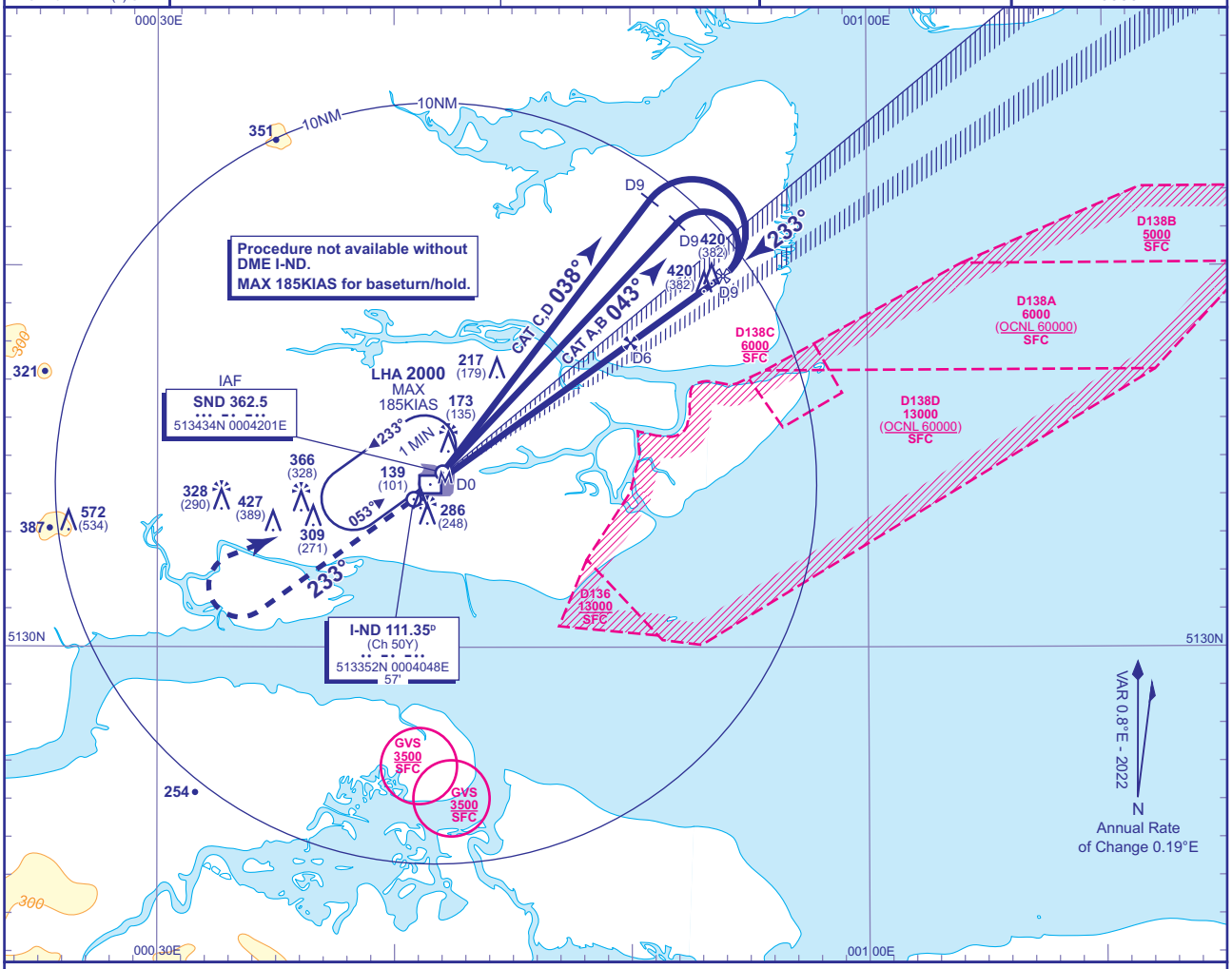
INSTRUMENT APPROACH CHART - ICAO

SOUTHEND LOC/DME/NDB(L) RWY 23
(ACFT CAT A,B,C,D)



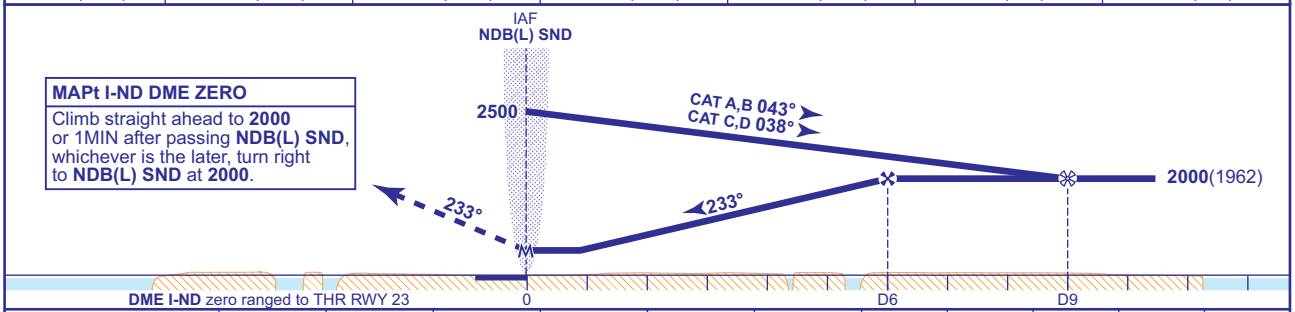
MSA 25NM NDB(L) SND

APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	TRANSITION ALTITUDE 6000
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	38	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION 572 AMSL (534) (ABOVE THR)		
	128.965	SOUTHEND DIRECTOR			
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

DME I-ND	6	5	4	3	2	1
ALT(HGT)	**2000**(1962)	**1680**(1642)	**1360**(1322)	**1050**(1012)	**730**(692)	**410**(372)



MAPt I-ND DME ZERO
Climb straight ahead to **2000** or 1MIN after passing **NDB(L) SND**, whichever is the later, turn right to **NDB(L) SND** at **2000**.

Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**420**(382)	**420**(382)	**420**(382)	**420**(382)
VM(C)OCA (OCH AAL)	Total Area	**600**(545)	**700**(645)	**900**(845)	**900**(845) (see note 4)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

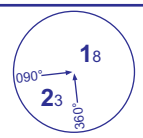
NOTES
1 Aircraft will normally be required to hold not lower than **2500**. Code D aircraft will be required to hold not lower than **3000**. Lowest altitude to commence procedure from NDB(L) SND following a missed approach is **2000**.
2 Maximum 185KIAS for hold and baseturns.
3 Active danger areas lie adjacent to the localiser course.
4 CAT D circling not authorised south of RWY 05/23 C/L.

CHANGE (1/25): DIRECT ARRIVAL REMOVED.

AERO INFO DATE 30 OCT 24
AD 2-EGMC-8-7

INSTRUMENT APPROACH CHART - ICAO

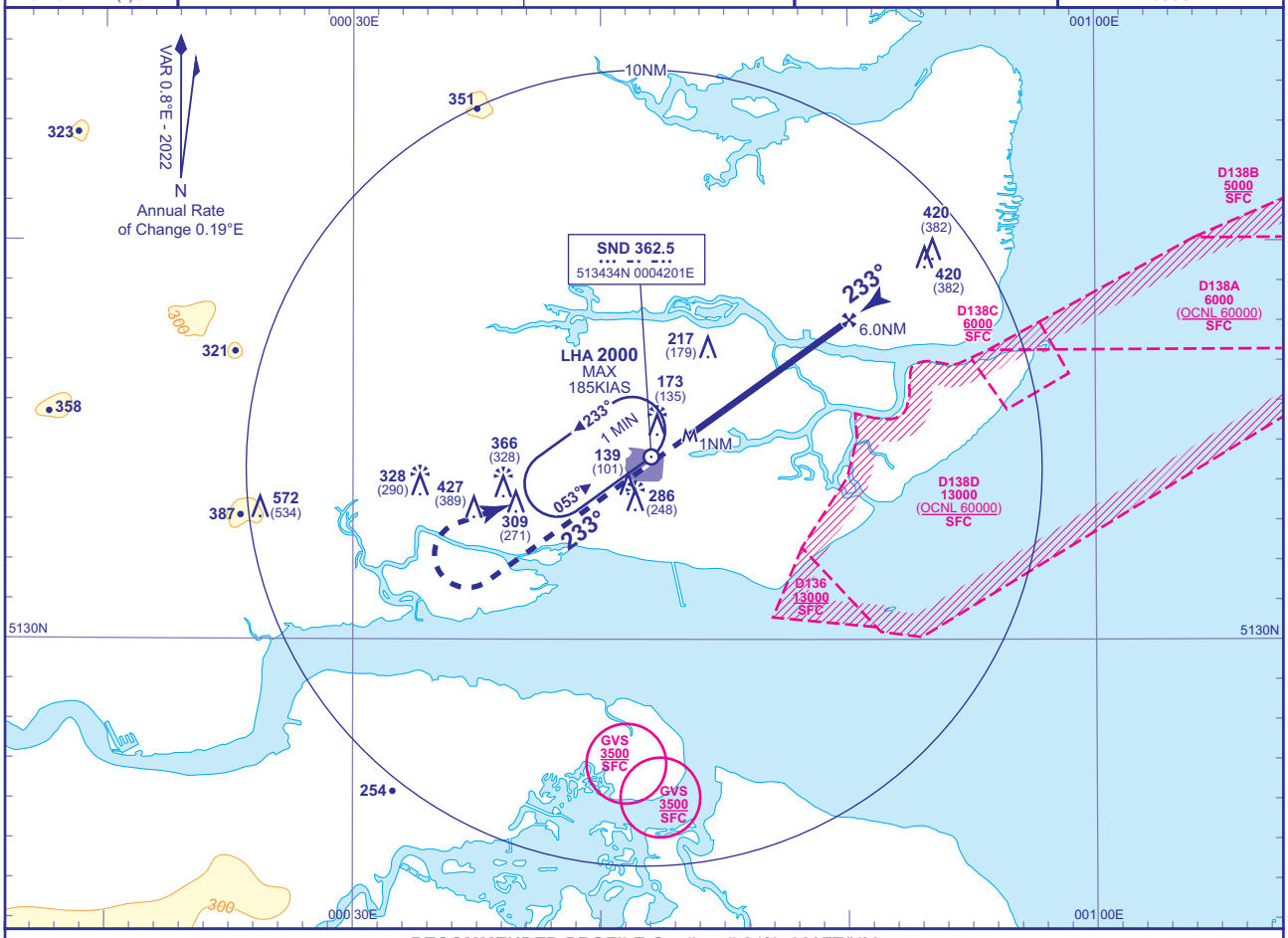
SOUTHEND
SRA RTR 2NM
RWY 23
(ACFT CAT A,B,C)



MSA 25NM NDB(L) SND

APP	130.780	SOUTHEND APPROACH	AD ELEVATION	55	
TWR	127.730	SOUTHEND TOWER	THR ELEVATION	38	
RAD	130.780	SOUTHEND RADAR	OBSTACLE ELEVATION		
	128.965	SOUTHEND DIRECTOR	572 AMSL (534) (ABOVE THR)		
ATIS	136.055	SOUTHEND INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



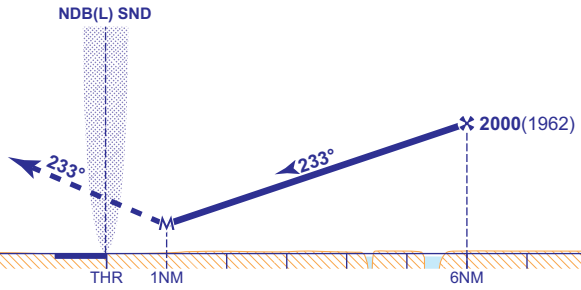
RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

NM	6.0	5.0	4.0	3.0	2.0	1.0
ALT(HGT)	**2000**(1962)	**1680**(1642)	**1360**(1322)	**1050**(1012)	**730**(692)	**410**(372)

Initial and intermediate approach as directed by radar.

MAPt 1NM after RTR

Climb straight ahead to **2000** or 1MIN after passing **NDB(L) SND**, whichever is the later, turn right to **NDB(L) SND** at **2000** or as directed.



Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**Procedure**	**490**(452)	**490**(452)	**490**(452)
VM(C)OCA (OCH AAL)	**Total Area**	**600**(545)	**700**(645)	**900**(845)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420
RTR to MAPT	**MIN:SEC**	0:23	0:26	0:30	0:36	0:45

NOTE Aircraft will be required to hold not lower than **2500**. Lowest altitude to commence procedure from NDB(L) SND following a missed approach is **2000**.

CHANGE (4/24): CONTROLLING OBSTACLE ADDED.

AERO INFO DATE 08 FEB 24

EGSY — ST ATHAN

EGSY AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSY — ST ATHAN

EGSY AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 512417N Long: 0032609W RWY 07/25 intersection with Taxiways E and F.
2	Direction and distance from city	10 NM WSW of Cardiff city.
3	Elevation / Reference temperature / Mean Low Temperature	164 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	169 FT
5	Magnetic Variation / Annual Change	0.61°W (2022) / 0.20°E
6	AD Administration	CARDIFF INTERNATIONAL AIRPORT ON BEHALF OF THE WELSH GOV.
	Address	Aerodrome Manager, Dragon Way, Bro Tathan West, St Athan, Barry, CF62 4AF.
	Telephone	01446-243901 Aerodrome Manager 01446-243940 ATC 01446-243943 ATIS
	E-mail address	stathan.ops@cwl.aero
	Web address	www.cardiff-airport.com
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	IFR Arrivals and Departures, VFR and SVFR see AD 2.22 item 6.

EGSY AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600) PPR H24. Extension of hours by prior arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. Extension of ATC hours by prior arrangement.
8	Fuelling	AVGAS 100LL available 0830-1700 (0730-1600). Jet A1 available 0830-1700 (0730-1600).
9	Handling	By prior arrangement with on-site based operators.
10	Security	On request by prior arrangement.
11	De-icing	
12	Remarks	

EGSY AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	Bowsers: 2 x 5000 LT AVGAS. 1 x 17,400 LT JET A-1, 1 x 17,000 LT JET A-1.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited, by arrangement.
6	Repair facilities for visiting aircraft	Caerdav. Horizon Aircraft Services and eCube.
7	Remarks	All visiting aircraft require to be sponsored by one of the resident AD organisations.

EGSY AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the vicinity.
2	Restaurants	
3	Transportation	Limited.
4	Medical facilities	Limited.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGSY AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4 Category 5, 6 or 7 by 48 hours prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Will be supported by onsite handler/host co-ordinated with Cardiff Airport.
4	Remarks	

EGSY AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	Taxiway Bravo, Runway 07/25 from intersection with Taxiway Foxtrot to the Runway 07 threshold, Taxiway Alpha from the Runway 07 threshold/HP A1 to intersection with Taxiway Foxtrot.
3	Remarks	Anti-iced with KC Potassium acetate fluid.

EGSY AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	ALPHA Surface: Concrete and asphalt PCN 25/F/A/X/T CHARLIE Surface: Concrete PCN 30/R/C/W/T ECHO Surface: Concrete PCN 35/R/C/W/T ENGINE RUNNING PLATFORM Surface: Concrete PCN 35/R/C/W/T KILO 1 Surface: Concrete PCN 45/R/B/W/T MAINTENANCE AREA C Surface: Concrete PCN 35/R/B/W/T MAINTENANCE AREA E Surface: Concrete PCN 35/R/C/W/T MAINTENANCE AREA G Surface: Concrete and asphalt PCN 20/F/B/Y/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 14 M Surface: Asphalt PCN 25/F/A/X/T

		Taxiway BRAVO: 10.5 M Surface: Asphalt PCN 20/F/B/X/T Taxiway CHARLIE: 15 M Surface: Concrete and asphalt PCN 25/R/B/W/T Taxiway DELTA: 15 M Surface: Asphalt PCN 22/F/C/Y/T Taxiway ECHO: 23 M Surface: Asphalt PCN 35/F/C/X/T Taxiway FOXTROT: 23 M Surface: Asphalt PCN 25/F/A/X/T Taxiway GOLF: 15 M Surface: Concrete and asphalt PCN 20/F/B/Y/T Taxiway HOTEL: 15 M Surface: Asphalt PCN 28/F/C/Y/T
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	No lighting provided for night operations on Apron Alpha, Apron Echo and Maintenance Area Echo.

EGSY AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Yellow taxiway markings and parking slot guidance on Apron Echo. There are no aircraft stands or stand markings. Aircraft marshalling is mandatory on Apron Alpha, Apron Charlie, Maintenance Area Echo, and the ecube and Caerdav demised areas.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Runway designation, runway threshold, runway centre-line, touchdown zone markings. Taxiway marking aid(s): Blue edge lights on Taxiway Alpha, Bravo, Charlie and Echo to holding point E. Blue edge lights on Apron Kilo 1 and Apron Charlie.
3	Stop bars and runway guard lights (if any)	Runway guard lights are positioned at Holding Points A1, A6, C, D, E, F, G and H.
4	Other runway protection measures	
5	Remarks	There are 2 illuminated WDIs to the south of Runway 07/25, adjacent to the runway threshold markings.

EGSY AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSY2062) 25/APPROACH 07/ TAKE-OFF	TREE	512441.32N 0032434.27W	208 FT	65 FT	No	
(EGSY2077) 25/APPROACH 07/ TAKE-OFF	TREE	512441.31N 0032428.26W	205 FT	67 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSY2075) 25/APPROACH 07/ TAKE-OFF	TREE	512439.55N 0032429.14W	204 FT	68 FT	No	
(EGSY2033) 25/APPROACH 07/ TAKE-OFF	TREE	512438.26N 0032445.44W	187 FT	43 FT	No	
(EGSY2031) 25/APPROACH 07/ TAKE-OFF	TREE	512437.75N 0032445.54W	184 FT	40 FT	No	
(EGSY2000) 25/APPROACH 07/ TAKE-OFF	TREE	512435.24N 0032453.36W	185 FT	35 FT	No	
(EGSY1992) 25/APPROACH 07/ TAKE-OFF	TREE	512434.66N 0032454.92W	184 FT	36 FT	No	
(EGSY1982) 25/APPROACH 07/ TAKE-OFF	TREE	512434.37N 0032459.47W	189 FT	43 FT	No	
(EGSY1960) 25/APPROACH 07/ TAKE-OFF	ROAD	512433.67N 0032501.14W	154 FT	15 FT	No	
(EGSY2202) 25/APPROACH 07/ TAKE-OFF	TREE	512432.23N 0032500.04W	168 FT	33 FT	No	
(EGSY1947) 07/TAKE-OFF	CHIMNEY	512426.58N 0032502.02W	145 FT	26 FT	No	
(EGSY1442) 07/APPROACH 25/ TAKE-OFF	FENCE	512412.09N 0032650.37W	165 FT	3 FT	No	
(EGSY1416) 07/APPROACH 25/ TAKE-OFF	FENCE	512411.71N 0032653.30W	171 FT	7 FT	No	
(EGSY1284) 07/APPROACH 25/ TAKE-OFF	TREE	512410.50N 0032706.23W	202 FT	41 FT	No	
(EGSY1285) 07/APPROACH 25/ TAKE-OFF	TREE	512410.27N 0032705.75W	201 FT	42 FT	No	
(EGSY1295) 07/APPROACH 25/ TAKE-OFF	TREE	512409.45N 0032704.95W	197 FT	37 FT	No	
(EGSY1347) 07/APPROACH 25/ TAKE-OFF	TREE	512405.42N 0032659.95W	185 FT	28 FT	No	
07/APPROACH 25/TAKE-OFF	DIRECTION FINDING MAST	512402N 0032644W	199 FT	35 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSY2128)	TREE	512756.08N 0032158.06W	482 FT	69 FT	No	
(EGSY2165)	MAST	512733.54N 0031653.72W	1297 FT	883 FT	Yes Red	
(EGSY2091)	MAST	512726.78N 0032410.63W	1161 FT	751 FT	Yes Red	
(EGSY2111)	TREES	512725.84N 0032252.61W	499 FT	71 FT	No	
(EGSY1819)	PYLON	512721.42N 0032526.84W	541 FT	154 FT	No	
(EGSY1931)	MAST	512718.80N 0032510.96W	575 FT	137 FT	No	
(EGSY1824)	PYLON	512709.30N 0032525.57W	520 FT	168 FT	No	
(EGSY2059)	TREE	512703.43N 0032439.96W	433 FT	70 FT	No	
(EGSY2142)	PYLON	512701.34N 0031958.56W	428 FT	135 FT	No	
(EGSY1983)	TREE	512658.14N 0032503.90W	410 FT	82 FT	No	
(EGSY1829)	PYLON	512656.37N 0032524.19W	428 FT	138 FT	No	
(EGSY2083)	TREE	512654.48N 0032428.82W	391 FT	57 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGSY1866)	PYLON	512648.24N 0032519.73W	388 FT	146 FT	No	
(EGSY1197)	TREE	512619.82N 0032859.54W	360 FT	57 FT	No	
(EGSY1191)	TREE	512615.03N 0032911.20W	355 FT	50 FT	No	
(EGSY1213)	TREE	512607.45N 0032839.82W	328 FT	72 FT	No	
(EGSY2126)	TREE	512603.96N 0032218.12W	349 FT	48 FT	No	
(EGSY1207)	TREE	512555.30N 0032842.49W	337 FT	60 FT	No	
(EGSY1168)	HANGAR	512547.13N 0032952.20W	343 FT	47 FT	No	
(EGSY1255)	BUILDING	512543.89N 0032726.32W	274 FT	36 FT	No	
(EGSY1230)	TREE	512506.40N 0032813.58W	281 FT	85 FT	No	
	CRANE	512436N 0032637W	349 FT	197 FT	Yes Red	
(EGSY2096)	CHIMNEY	512351.88N 0032340.39W	378 FT	344 FT	Yes Red	
(EGSY2084)	CHIMNEY	512314.22N 0032416.92W	529 FT	518 FT	Yes Red	

EGSY AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 Hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing / Telephone.
6	Flight documentation Language(s) used	TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Available on the met office website www.metoffice.gov.uk/aviation.
8	Supplementary equipment available for providing information	St Athan ATIS available by telephone on 01446-243943.
9	ATS units provided with information	ST ATHAN
10	Additional information (limitation of service, etc.)	Unverified automatic met observations on ATIS (130.560 MHz) or by telephone (01446-243943) outside of aerodrome/ATC hours.

EGSY AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
07	073.05°	1828 x 45 M	RWY surface: Asphalt, Grooved PCN 40/F/C/W/T	512410.55N 0032643.16W 169.1 FT	THR 160.9 FT TDZ 163.6 FT	RWY 07 - 0.51% down RWY 25 - 0.51% up

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
25	253.07°	1828 x 45 M	RWY surface: Asphalt, Grooved PCN 40/F/C/W/T	512427.18N 0032515.81W 169.0 FT	THR 133.4 FT TDZ 152.0 FT	RWY 07 - 0.51% down RWY 25 - 0.51% up

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
45 x 45 M	17 x 150 M		90 x 90 M -			RWY 07 Strip Dimensions: 1948 x 150 M. White edge markings are not at edge of paved surface and indicate 43 M width. Stopway unlit.
48 x 45 M	12 x 150 M		90 x 90 M -			RWY 25 Strip Dimensions: 1960 x 150 M. White edge markings are not at edge of paved surface and indicate 43 M width. Stopway unlit.

EGSY AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	1828 M	1846 M	1874 M	1778 M	
25	1828 M	1840 M	1877 M	1816 M	
07	1343 M	1360 M	1388 M		Take-off from intersection with Taxiway Charlie.
07	1322 M	1340 M	1367 M		Take-off from intersection with Taxiway Delta.
07	1091 M	1109 M	1136 M		Take-off from intersection with Taxiway Foxtrot.
07	1091 M	1109 M	1136 M		Take-off from intersection with Taxiway Echo.
25	1271 M	1283 M	1319 M		Take-off from intersection with Taxiway Golf.
25	1237 M	1248 M	1285 M		Take-off from intersection with Taxiway Hotel.
25	761 M	773 M	809 M		Take-off from intersection with Taxiway Foxtrot.
25	761 M	773 M	809 M		Take-off from intersection with Taxiway Echo.

EGSY AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07	CL1B 430 M Light intensity high	Green Light intensity high Uni-directional	PAPI Left/3° 25 FT			Elevated (flush at E/F) White Hi Uni with white LI omni component. 600 M Amber.	Uni-directional Red Light intensity high		EDGE: Pilot Controlled Lighting system in use outside ATC op hours. Activates RWY edge and stop end lights only, remains on for 15 minutes (for SAR and Police flights only).
25	CL2B 420 M Light intensity high	Green Light intensity high Uni-directional	PAPI Right/3° 26 FT			Elevated, (flush at E/F) White Hi Uni with white LI omni component. 600 M Amber.	Uni-directional Red Light intensity high		EDGE: Pilot Controlled Lighting system in use outside ATC op hours. Activates RWY edge and stop end lights only, remains on for 15 minutes (for SAR and Police flights only).

EGSY AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 512402.00N 0032642.08W and 512402.13N 0032641.19W.
3	TWY edge and centre line lighting	EDGE: Blue edge lighting on Taxiways Alpha, Bravo (elevated on Bravo) and Echo and on Taxiway Charlie from the runway to Apron Charlie. No centre-line lighting. Spacing of lights on Taxiway Alpha is irregular.
4	Secondary power supply/switch-over time	Yes / 12 seconds.
5	Remarks	Taxiway Alpha, Bravo, Charlie and Echo edge lights remain on outside ATC Ops hours for SAR and Police helicopter operations.

EGSY AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGSY AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ST ATHAN ATZ 512532N 0032328W - 512241N 0032410W thence clockwise by the arc of a circle radius 2 NM centred on 512419N 0032600W to 512532N 0032328W	Upper limit: 2000 FT AGL Lower limit: SFC	D	ST ATHAN TOWER English	6000 FT		Outside St Athan ATC op hours departing helicopters contact Cardiff TWR on 133.105 MHz prior to departure for clearance to enter Cardiff Controlled airspace.

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
ST ATHAN LOCAL FLYING ZONE 512524N 0033307W - 512456N 0032523W - 512406N 0032302W - 512247N 0032302W - 512124N 0033042W - 512209N 0033306W thence clockwise by the arc of a circle radius 8 NM centred on 512348N 0032036W to 512524N 0033307W	Upper limit: 1700 FT ALT Lower limit: SFC	D	ST ATHAN TOWER English	6000 FT		Outside St Athan ATC op hours departing helicopters contact Cardiff TWR on 133.105 MHz prior to departure for clearance to enter Cardiff Controlled airspace. To operate UAS above 400 FT AGL within this area, UAS operators are required to notify NATS via the NATS Non-Standard Flight (NSF) Portal. UAS operators are required to notify NATS at least 14 days before the date of each activity. See EGSY AD 2.22 - Flight Procedures for info.

EGSY AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	CARDIFF APPROACH	119.155 DOC 50 NM/ 19,000 FT. Initial contact frequency.			H24	ATZ hours coincident with Approach hours.
		125.855 DOC 40 NM/ 19,000 FT.			As directed by ATC	
TWR	ST ATHAN TOWER	122.865 DOC 15 NM/4000 FT.			AD Hours.	Operators of aircraft that are not equipped for 8.33 kHz should contact ATC by email at stathanatc@nats.co.uk and stathan.ops@cwl.aero prior to operating to/at this aerodrome.
		241.125 DOC 18 NM/4000 FT. For UWAS Emergencies.			AD Hours.	
RADAR	CARDIFF RADAR	125.855 DOC 50 NM/ 19,000 FT.			0600-2300 (0500-2200)	Radar may be available 2300-0600 (2200-0500).
ATIS	ST ATHAN INFORMATION	130.560 DOC 15 NM/4000 FT.			H24	ATIS information available by telephone 01446-243943.
OTHER	ST ATHAN FIRE	121.600			AD Hours.	Available when fire vehicle attending aircraft on the ground in an emergency.

EGSY AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.24°E (2027)	ISAT	111.150 MHz	HO	512407.64N 0032658.36W		(RWY 25) There is no hold associated with a Missed Approach (MAP) from the ILS at St Athan. In the event of a normal MAP the aircraft will climb ahead to 4000 FT or as directed by Radar and contact Cardiff approach on 119.155 MHz and either be vectored for a further ILS approach at St Athan or diverted to the aircraft captain's nominated diversion aerodrome. An aircraft may not fly an ILS at St Athan if the runway at Cardiff is closed or the Cardiff NDB has failed or unavailable. Runway Closure or NDB failure will be NOTAM'ed, notified on the Cardiff ATIS or passed to the aircraft by the controller.
ILS/GP	ISAT	331.550 MHz	HO	512421.79N 0032530.12W		(RWY 25) Pilots may not receive full fly up indications when left of centreline below glidepath.
DME	ISAT	48Y 111.150 MHz	HO	512421.85N 0032530.27W	146 FT	Frequency paired with ILS ISAT.

EGSY AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use governed by regulations applicable to Cardiff CTR and Cardiff Airport.
b) Terms and Conditions of use of aerodrome available from Airport Operations.
c) PPR. Visiting civil aircraft must book in with the aerodrome based operator who is acting as their sponsor.
d) Ground running of aircraft engines for test or maintenance purposes is permitted between the hours of 0800-2000 (0700-1900) only. ATC require prior notification and additionally ATC prior approval required if conducted outside an operator's demised area. Operators should advise whether, during airfield operating hours, attendance of the Aerodrome Fire Service is required for the duration of the engine run. Outside airfield opening hours, no later than 2000 daily, unless it is an urgent operational requirement, prior permission of the Airfield Manager/Deputy Airfield Manager must be sought by calling 07436-803400 or 07776-649158. In either case, if a full engine ground run is to be conducted on maintenance area northside, or Point Charlie utilising the Jet Blast Efflux Deflector Barrier an email must be sent to the Aerodrome operator (including AML) by the maintenance organisation at least 2 hours prior to EGR taking place to inform them of the anticipated times. Engine Ground Runs (EGR) must be conducted in accordance with company risk assessments and a safety assessment by the Airfield Authority. Risk assessments must be made available to the airfield operator.
e) Non-radio aircraft not permitted.
f) High-visibility clothing MUST be worn airside.
g) Aerodrome not available when MET visibility is less than 1500 M, other than for emergency service helicopters.

2 GROUND MOVEMENT

a) Departing aircraft, on first contact with St Athan ATC, must state aircraft location, type and the code letter of the latest ATIS received. Pilots of departing aircraft are reminded to contact St Athan Tower for clearance 10 minutes before start up.
b) Aircraft larger than B757-200 series and A321 series will be pushed back onto the departure runway threshold prior to departure and towed off the runway after landing.
c) Commanders of aircraft that cannot backtrack on the runway and if unable to vacate at the taxiway Echo turn off on landing, should advise ATC and their sponsor organisation prior to arrival.
d) Wheel to taxiway edge clearances not assured on entrances to southside hangars from Taxiway 'A'.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) St Athan is located 3 NM West of Cardiff Airport within the Cardiff CTR. By arrangement with Cardiff ATC during St Athan ATC hours of operation, and subject to conditions detailed in EGSY AD 2.22 Flight Procedures, flights by St Athan based aircraft may take place in VMC without reference to Cardiff ATC within a Local Flying Zone (LFZ).
b) Helicopter activity (SAR and Police) conducted H24.
c) Uncontrolled vehicular traffic may be encountered on the airfield outside ATC operational hours.
d) Runway 25 in strong north westerly winds, turbulence may be encountered on short finals.

5 HELICOPTER OPERATIONS

a) SAR and Police helicopters operate H24. Aircrew are to make Callsign 'Blind RT calls' on 122.865 MHz when taxiing, departing and arriving out of airfield operating hours.
b) Helicopter traffic arriving and departing outside ATC operational hours are to contact Cardiff Tower on 133.105 MHz to obtain clearance into Controlled Airspace and make 'blind calls' in accordance with paragraph 5(a).
c) Two Helicopter Training Areas (HTAs) delineated by white markers at the corners of the HTAs are established for the use of SAR and Police helicopters.
d) Visiting helicopters are to arrive and depart to/from the runway.

6 USE OF RUNWAYS

a) Aircraft taxiing from the north of the runway can expect to back track on the runway when so cleared by ATC.
b) Aircraft larger than B757-200 require push back off the runway after landing if the landing roll is beyond intersection with Taxiways E and F. This may result in delays until the runway is vacated.

7 TRAINING

a) Visiting aircraft wishing to conduct circuit training at St Athan require an airspace brief by Air Traffic Control before commencing any circuit training details.
b) All aircraft wishing to carry out instrument training within the Cardiff Zone, must have a functioning transponder with Mode C.
c) All IFR training in Cardiff CTR/CTA subject to PPR from Cardiff Approach. Operators wishing to conduct radar vectored ILS approaches to St Athan should do so utilising the web booking form ensuring they specify St Athan https://instrumenttraining.as.me/.
d) Operators must also apply for PPR as well as completing the booking form. For PPR email stathan.ops@cwl.aero or ring 01446-243901/02.

EGSY AD 2.21 NOISE ABATEMENT PROCEDURES

a) Avoid overflight of St Athan village south east of the aerodrome below 1500 FT or 1700 FT QNH.

EGSY AD 2.22 FLIGHT PROCEDURES

1 GENERAL INFORMATION

a) Attention is drawn to the close proximity of Cardiff Airport (3 miles east of St Athan).
b) Approach Radar services are provided by Cardiff Airport ATC.
c) Military operators wishing to conduct unusual air activity on the aerodrome (e.g. TALO, fast roping) should request prior permission from the Aerodrome Manager Contact Tel: 01446-243901.

2 CIRCUIT DIRECTION

a) Runway 07 Right hand circuits.
b) Runway 25 Left hand circuits.

3 CIRCUIT HEIGHTS

a) Light piston aircraft: 800 FT QFE.
b) All other types (Fast Jets, large multi-engine turbine and piston): 1300 FT QFE.
c) Glide Circuit height: 1500 FT QFE.
d) Low level circuit height: 500 FT QFE.
e) No RT/Total electrical failure: 600 FT QFE.
f) When circuit flying is taking place involving mixed military and civil aircraft, civil circuits are to be flown.

4 ST ATHAN LOCAL FLYING ZONE

a) A portion of Cardiff CTR is delegated to St Athan ATC during certain VMC weather criteria to enable St Athan to operate autonomously within the St Athan Local Flying Zone (LFZ), (see EGSY AD 2.17 ATS Airspace) provided:

i. Aircraft are to be in communication with and comply with instructions from St Athan ATC.
ii. All aircraft are to conduct their flights within the weather criteria specified for VFR flights within Class D Airspace.
iii. Maximum Altitude 1,700 FT St Athan QNH (1,500 FT St Athan QFE).

b) Pilots operating in the LFZ are responsible for maintaining their own visual separation from other aircraft, including aircraft on final approach to Cardiff Runway 12 and departing from Cardiff Runway 30, which are in close proximity to the LFZ. (Traffic information will be passed where possible by ATC). Arriving VFR aircraft can expect to be held south and west of the runway 07/25 mid-point when IFR traffic is departing from Cardiff runway 30 or Cardiff IFR approaching traffic is within 15 miles from touchdown to Cardiff runway 12.
c) Flights to and from St Athan which are unable to comply with the requirements to remain within the St Athan Local Flying Zone will be subject to individual clearance from Cardiff ATC and will be integrated with Cardiff arriving and departing traffic.
d) All Airfield users should adopt the VFR Nash departure/arrival to operate to/from the West via a transit along the coast as depicted in the local area map. Aircraft departing St Athan to the West climb straight away to 1500 FT St Athan QNH to exit the LFZ, remaining over land throughout. Aircraft returning from the West enter the LFZ at Nash Point at 1500 FT St Athan QNH, then descend to the appropriate circuit height at Nash Point, remaining over water until the last appropriate moment to join the St Athan circuit.

5 VISUAL REFERENCE POINTS (VRP)

a) Pilots are advised to use caution when routeing via the St Hilary TV Mast and Wenvoe TV Mast VRPs as they are Air Navigation Obstacles with high elevation – See ENR 5.4 dataset for up to date details of ICAO AREA 1 Obstacles.
b) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

6 VFR ROUTES TO/FROM ST ATHAN

a) All arriving aircraft must obtain an ATC clearance from Cardiff ATC to enter Controlled Airspace.
b) In order to reduce RTF congestion, the published outbound and inbound VFR routes are allocated designators. Pilots are to ensure they are familiar with the route alignment. Level instructions will be passed with the appropriate ATC VFR clearance.
c) Pilots filing VFR flight plans should additionally address the flight plan to EGFFZTZX.

Published VFR Departure Routes

Route Designator	RWY	Route	Maximum Altitude QNH	Remarks
East	07/25	Aircraft remain west of the quarry and route to remain West of Aberthaw Power Station over water, clearance limit Aberthaw power station then as directed by Cardiff Tower.	1500 FT	Do not proceed east of Aberthaw Power Station until cleared by Cardiff ATC.
South	07/25	Aircraft remain west of the quarry and leave CAS towards Minehead VRP.	1500 FT	
Nash Point	07/25	After departure remain within the confines of the LFZ and leave CAS to the west via Nash Point VRP remaining overland and south of the Cardiff Runway 12 final track.	1500 FT	Runway 07 departures should remain west of the quarry.
North	07/25	Leave CAS between the St Hilary and Wenvoe TV Masts.	1500 FT	

Note 1: *Pilots who wish to operate above the 'maximum altitude' shall request this once airborne.*

Note 2: *All routes are available Special VFR subject to ATC clearance.*

Note 3: *Pilots can expect to receive a clearance at the holding point in the format "<Callsign>, cleared to leave controlled airspace on a published <designator> departure, not above <altitude restriction> <QNH> VFR." A complete read back is required.*

Published VFR Arrival Routes

Route Designator	RWY	Route	Maximum Altitude QNH	Remarks
East	07/25	From the North East route as directed by Cardiff Tower to hold East of Aberthaw Power Station and as directed by St Athan ATC.	1500 FT	Do not proceed west of Aberthaw Power Station until cleared by St Athan ATC.
South	07/25	Enter CAS from the South, remain west of the quarry and as directed by St Athan ATC.	1500 FT	
Nash Point	07/25	Enter CAS via Nash Point route east bound along the coast over water then as directed by St Athan ATC.	1500 FT	
North Arrival	07/25	Enter CAS towards the St Hilary VRP to orbit and remain north of the mast then as directed by Cardiff Tower.	1500 FT	
Straight In	07/25	Enter CAS to position Straight in for the Runway in use.	1500 FT	

Note 1: *Pilots who wish to operate above the 'maximum altitude' shall request this.*

Note 2: *All routes are available Special VFR subject to ATC clearance.*

Note 3: *Pilots can expect to receive a clearance in the format: "<Callsign>, cleared to enter controlled airspace on a published <designator> arrival, not above <altitude restriction> <QNH> VFR." A complete read back is required.*

7 IFR ARRIVALS FROM THE ATS ROUTE NETWORK

a) Aircraft inbound via the ATS Route Network must follow the Cardiff Standard Arrival Routes (STAR) as shown at AD 2-EGFF-7.

8 IFR DEPARTURES

a) An Abbreviated IFR Departure (AID) shall be passed to all IFR aircraft outbound from St Athan regardless of their intended routing.
b) The AID clearance is defined as: AID 07 or AID 25 - Climb straight ahead to altitude 4000 FT St Athan QNH, squawk <xxxx>.
c) In the absence of an ORCAM SSR code one from the Cardiff IFR allocation shall be allocated.
d) The Cardiff ATC shall issue an AID departure clearance to St Athan ATC.
e) AID is subject to release from Cardiff ATC.

9 RADIO COMMUNICATIONS FAILURE

a) In the event of an RT Failure, except for an ILS approach, the appropriate Procedures detailed in UK AIP ENR 1.1 Para 3.4 should be followed.
b) If at some point during the ILS an RCF is experienced the aircraft is to squawk 7600 and either land at St Athan or carry out an RCF Missed Approach (RCFMAP).

RCFMAP

The aircraft will:

- Squawk 7600.
- Climb to 5000 FT, initially straight ahead to 4000 FT or I-SAT D4, whichever is later, then turn left to NDB CDF to hold at 5000 FT. Max 230 KIAS. Be aware that in the event of a slow climb you may exit controlled airspace for a short time.
- Select Cardiff approach 119.155 MHz or for University of Wales Air Squadron (UWAS) aircraft if directed to by ATC 241.125 MHz.
- Complete two holds.
- Carry out an instrument approach to Cardiff and land at Cardiff or divert to their nominated alternate as per the flight plan.

On planning to make an ILS approach to St Athan the crew of the inbound aircraft must ensure that:

- They are fully briefed for the approach, including the requirements of a RCFMAP at St Athan.
- They have both the Cardiff and St Athan ATIS prior to commencing the approach.

Note: *If an aircraft carries out an RCFMAP it must subsequently land at Cardiff or nominated alternative and not attempt a cloudbreak and landing at St Athan.*

EGSY AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGSY AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSY-2-1
LOCAL FLYING ZONE AND ENTRY EXIT PROCEDURES
AD 2.EGSY-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGSY-5-1
INSTRUMENT APPROACH CHART ILS/DME RWY 25 - ICAO
AD 2.EGSY-8-1
INSTRUMENT APPROACH CHART LOC/DME RWY 25 - ICAO
AD 2.EGSY-8-2

EGSY AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 512417N 0032609W

AD ELEV 164FT

St. ATHAN
EGSY

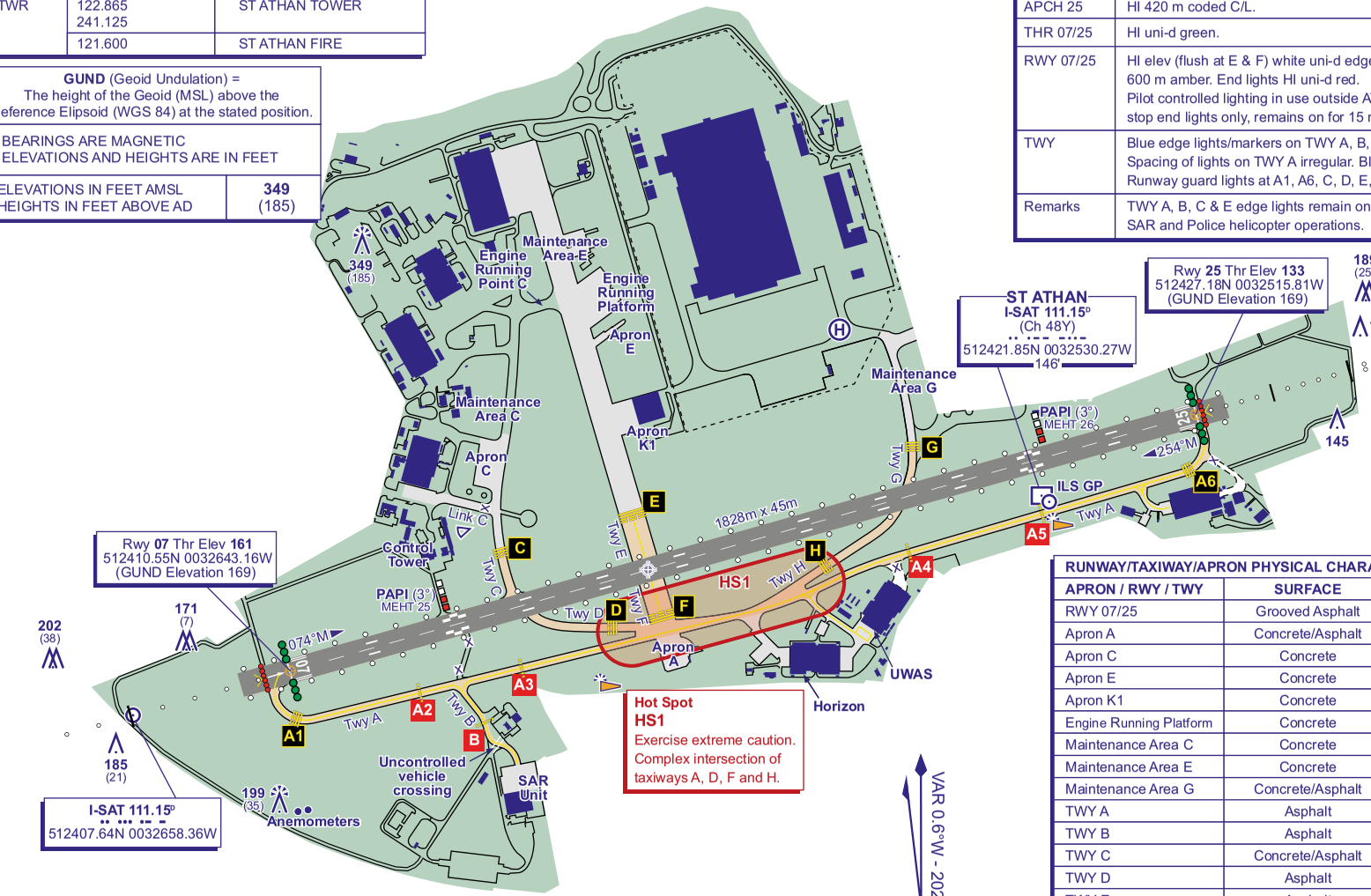
AERO INFO DATE 04 SEP 24

COM		
ATIS	130.560	ST ATHAN INFORMATION
TWR	122.865 241.125	ST ATHAN TOWER
	121.600	ST ATHAN FIRE

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**349** (185)

LIGHTING	
APCH 07 APCH 25	HI 430 m coded C/L. HI 420 m coded C/L.
THR 07/25	HI uni-d green.
RWY 07/25	HI elev (flush at E & F) white uni-d edge with LI omni-d component. 600 m amber. End lights HI uni-d red. Pilot controlled lighting in use outside ATC op hrs. Activates edge and stop end lights only, remains on for 15 min (for SAR & Police only).
TWY	Blue edge lights/markers on TWY A, B, C & E. Spacing of lights on TWY A irregular. Blue Edge lights on Apron K1 & C. Runway guard lights at A1, A6, C, D, E, F, G & H.
Remarks	TWY A, B, C & E edge lights remain on outside ATC Ops hours for SAR and Police helicopter operations.



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
RWY 07/25	Grooved Asphalt	40/F/C/W/T
Apron A	Concrete/Asphalt	25/F/A/X/T
Apron C	Concrete	30/R/C/W/T
Apron E	Concrete	35/R/C/W/T
Apron K1	Concrete	45/R/B/W/T
Engine Running Platform	Concrete	35/R/C/W/T
Maintenance Area C	Concrete	35/R/B/W/T
Maintenance Area E	Concrete	35/R/C/W/T
Maintenance Area G	Concrete/Asphalt	20/F/B/Y/T
TWY A	Asphalt	25/F/A/X/T
TWY B	Asphalt	20/F/B/X/T
TWY C	Concrete/Asphalt	25/R/B/W/T
TWY D	Asphalt	22/F/C/Y/T
TWY E	Asphalt	35/F/C/X/T
TWY F	Asphalt	25/F/A/X/T
TWY G	Concrete/Asphalt	20/F/B/Y/T
TWY H	Asphalt	28/F/C/Y/T

CHANGE (12/24): UWAS, HORIZON LOCATIONS.

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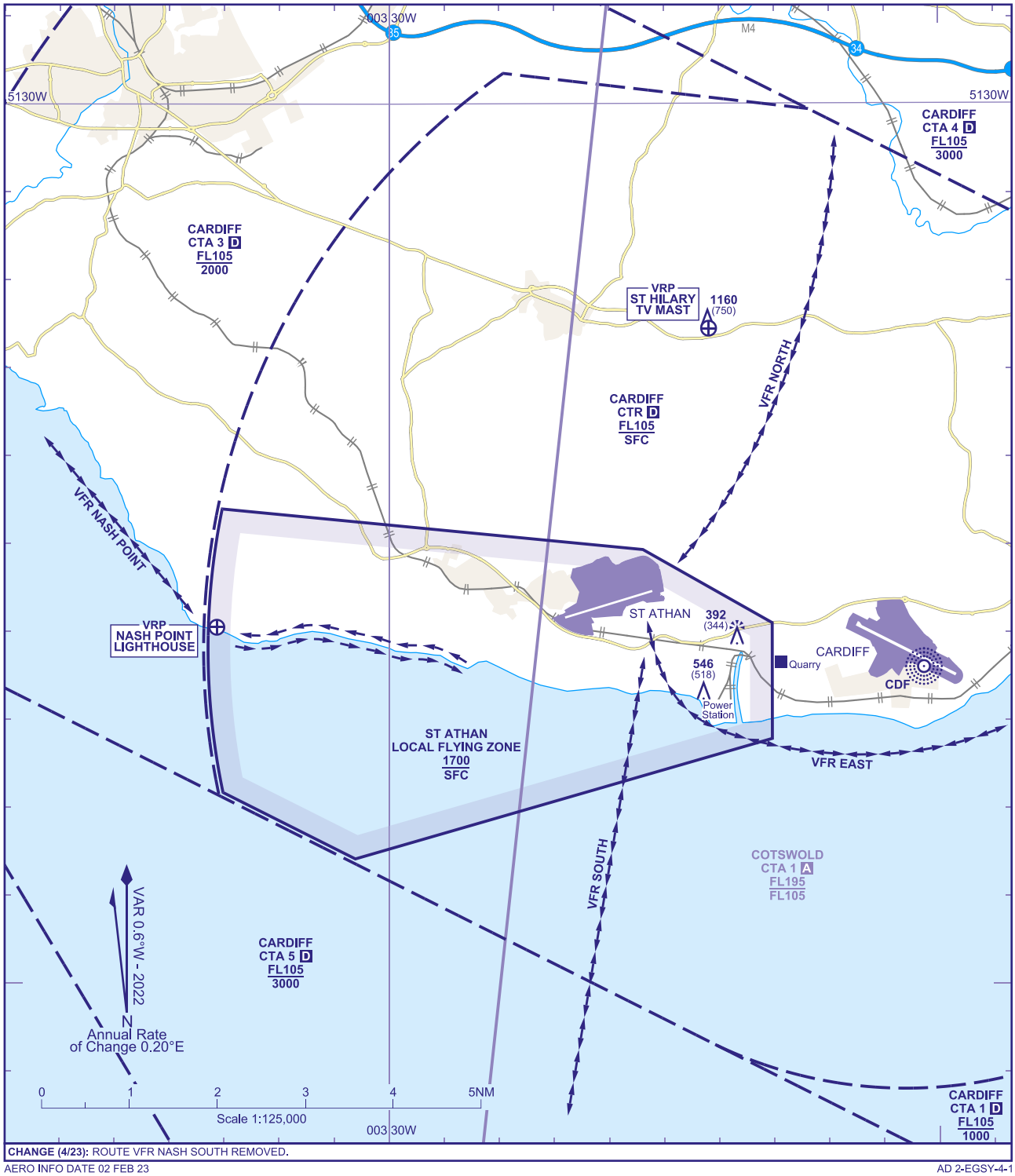
LOCAL FLYING ZONE AND ENTRY EXIT PROCEDURES — ST ATHAN



CHANGE (4/23): ROUTE VFR NASH SOUTH REMOVED.

AERO INFO DATE 02 FEB 23

AD 2-EGSY-4-1

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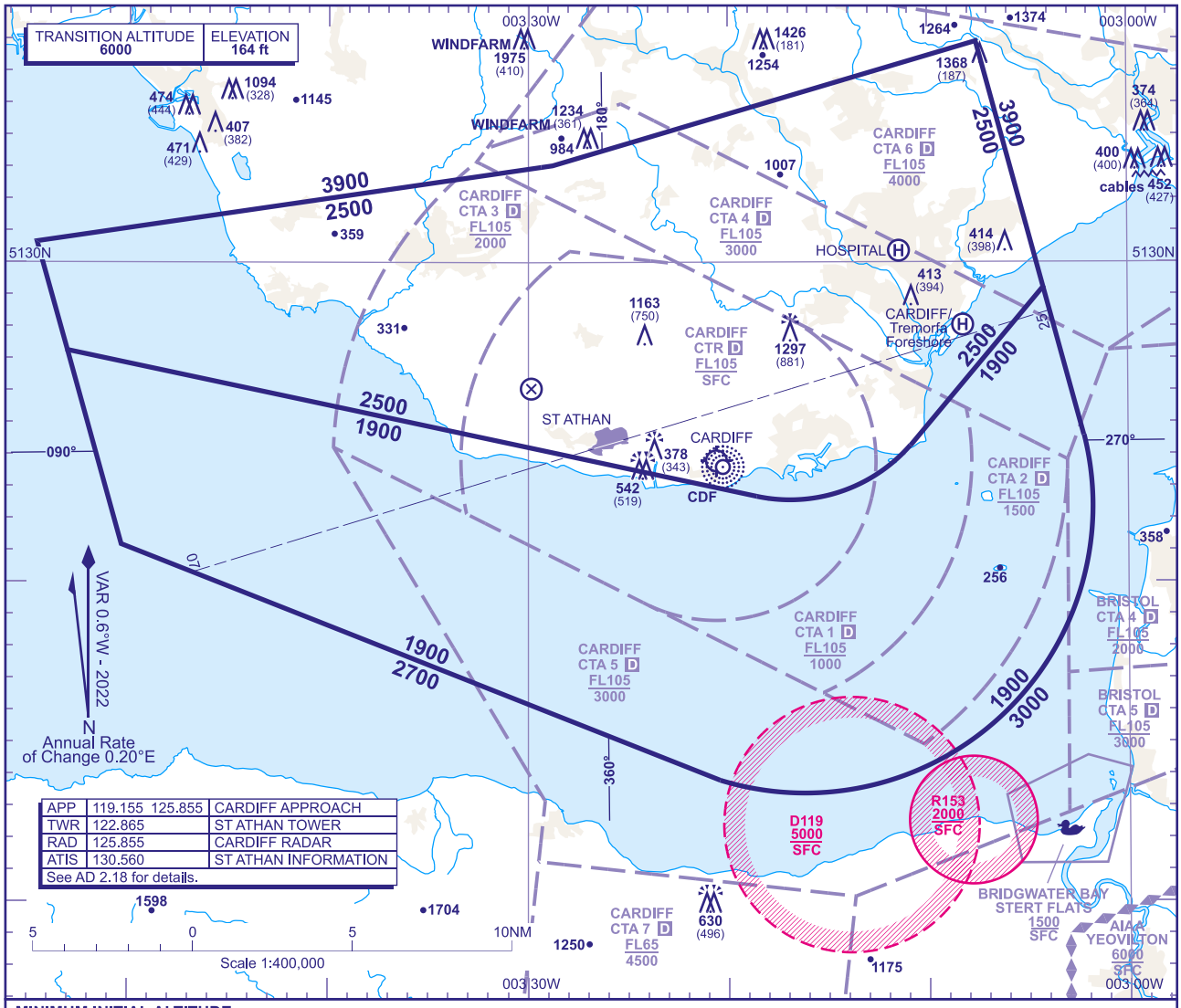
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL **1975**
HEIGHTS IN FEET AGL (410)

ST ATHAN



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2500** in the sector defined by the lateral limits; 513039N 0035438W - 513302N 0032847W - 513655N 0030733W - 512913N 0030413W - 512416N 0031053W thence clockwise by an arc of a circle radius 5NM centred on 512734N 0031654W to 512241N 0031835W - 512715N 0035305W - 513039N 0035438W.

b) **1900** in the sector defined by the lateral limits; 512715N 0035305W - 512241N 0031835W thence anticlockwise by an arc of a circle radius 5NM centred on 512734N 0031654W to 512416N 0031053W - 512913N 0030413W - 512435N 0030213W thence clockwise by an arc of a circle radius 9NM centred on 512224N 0031610W to 511348N 0032026W - 512111N 0035021W - 512715N 0035305W.

NOTE: Radar headings will be allocated so as to avoid Danger Area D119 when active.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible, continue on last assigned heading until reaching **5000** then turn to enter the hold at **NDB(L) CDF**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible follow the RCF Procedure to **NDB(L) CDF**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Radar vectoring for initial approach to St Athan is provided by CARDIFF APPROACH.
2. Levels shown are based on QNH.
3. Only significant obstacles and dominant spot heights are shown.
4. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
5. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
6. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
7. **Thls chart should only be used for the cross-checklng of assigned altltudes whllst In recelpt of an ATC Surveillance servlce.**
8. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
9. Detailed description of ATS airspace organized at Cardiff Airport see EGFF AD 2.17.

CHANGE (4/25): HOSPITAL HELI SITE ADDED.

AERO INFO DATE 23 JAN 25

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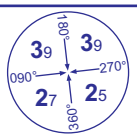
INSTRUMENT APPROACH CHART - ICAO

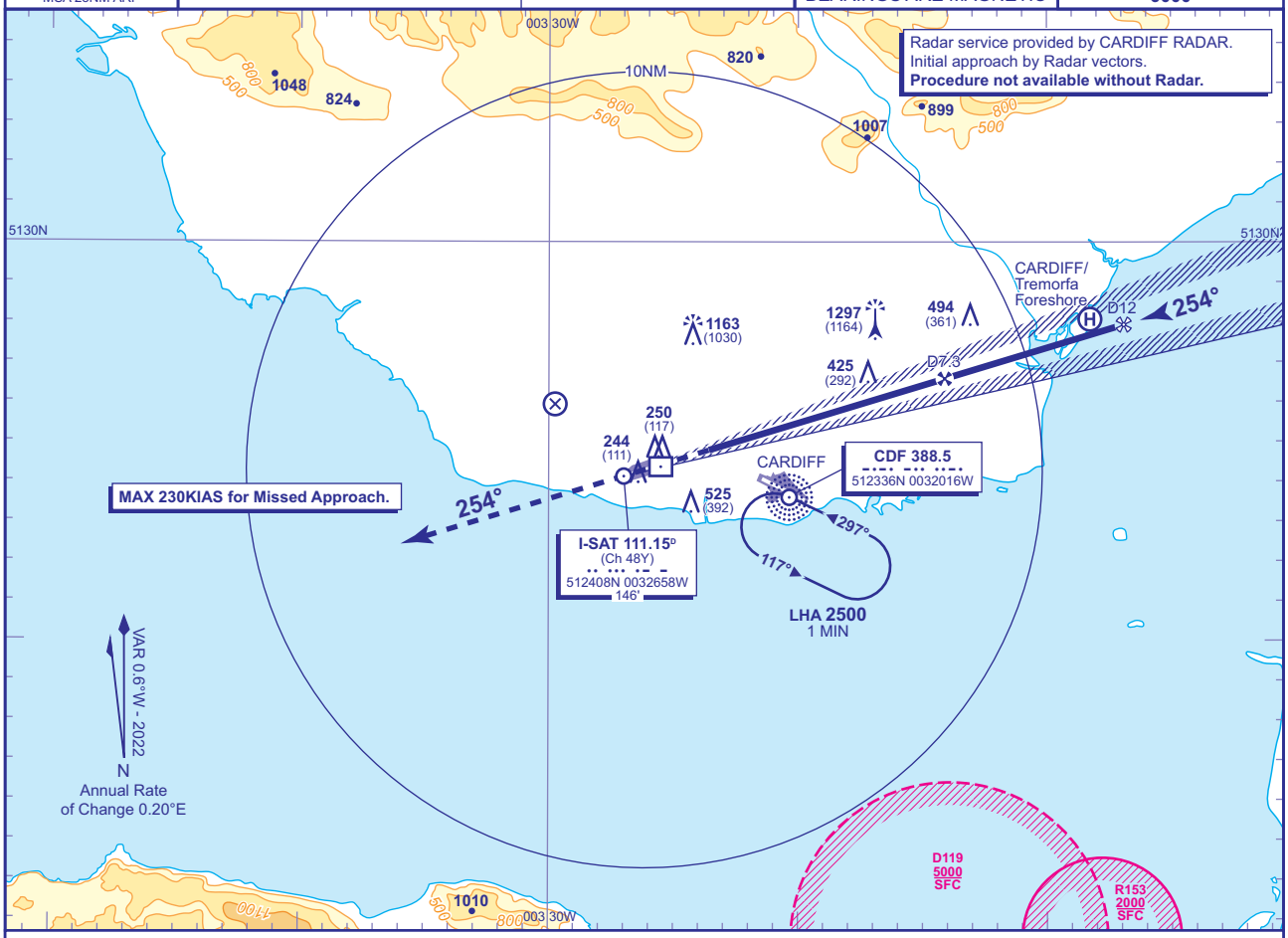
ST ATHAN ILS/DME RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	164
RAD 125.855	CARDIFF RADAR	THR ELEVATION	133
TWR 122.865	ST ATHAN TOWER	OBSTACLE ELEVATION	
ATIS 130.560	ST ATHAN INFORMATION	1297 AMSL (1164) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



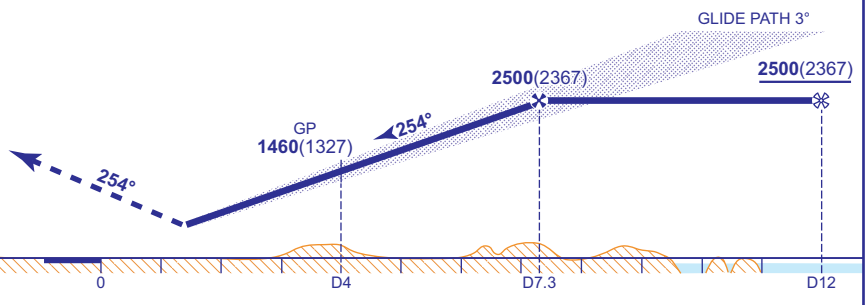
RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-SAT	7	6	5	4	3	2
ALT(HGT)	**2410**(2277)	**2090**(1957)	**1780**(1647)	**1460**(1327)	**1140**(1007)	**820**(687)

RDH 50

Climb straight ahead to **4000** then as directed by ATC.

RCF: Climb to **5000**, initially straight ahead to **4000** or **I-SAT** D4 whichever is later then turn left to **NDB CDF** to hold at **5000.** MAX 230KIAS.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**633**(500)	**633**(500)	**633**(500)	**633**(500)
VM(C)OCA (OCH AAL)	Total Area	**830**(666)	**830**(666)	**1560**(1396)	**1560**(1396)

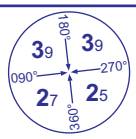
Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

CHANGE (8/21): CARDIFF APPROACH FREQUENCY AMENDED.

AERO INFO DATE 14 MAY 21

INSTRUMENT APPROACH CHART - ICAO

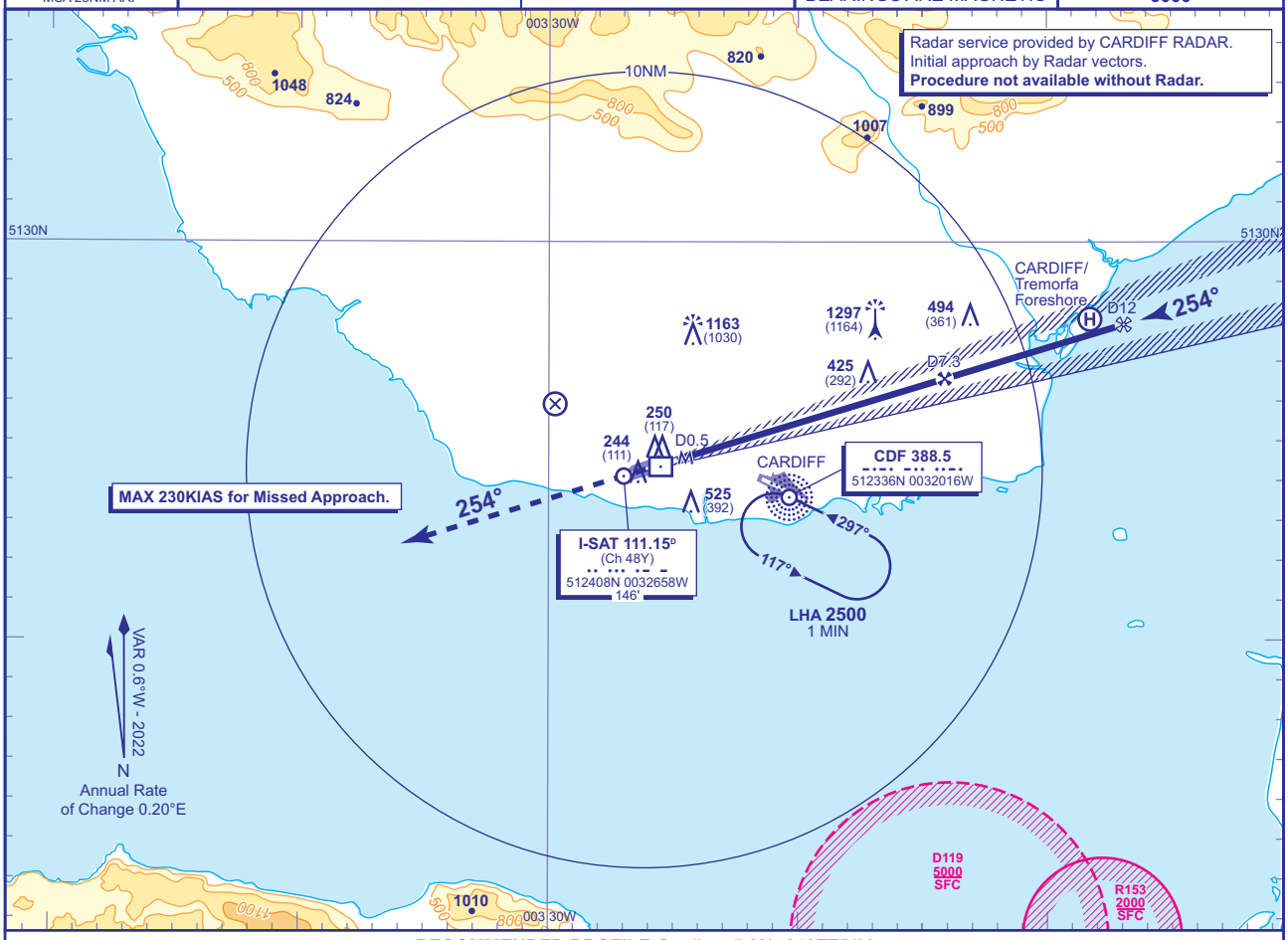
ST ATHAN LOC/DME RWY 25
(ACFT CAT A,B,C,D)



MSA 25NM ARP

APP 119.155, 125.855	CARDIFF APPROACH	AD ELEVATION	164
RAD 125.855	CARDIFF RADAR	THR ELEVATION	133
TWR 122.865	ST ATHAN TOWER	OBSTACLE ELEVATION	
ATIS 130.560	ST ATHAN INFORMATION	**1297 AMSL** (1164) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **6000**



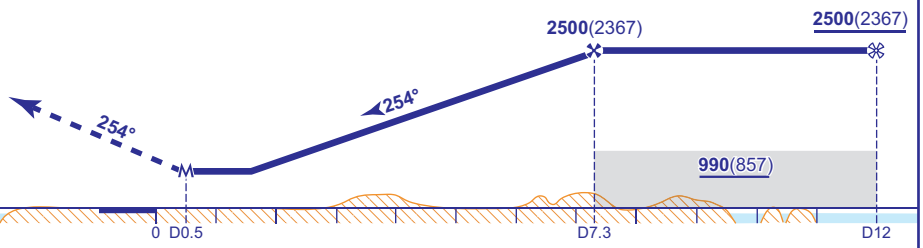
RECOMMENDED PROFILE Gradient 5.2%, 318FT/NM

DME I-SAT	7	6	5	4	3	2
ALT(HGT)	**2410**(2277)	**2090**(1957)	**1780**(1647)	**1460**(1327)	**1140**(1007)	**820**(687)

MAPt I-SAT DME 0.5

Climb straight ahead to **4000** then as directed by ATC.

RCF: Climb to **5000**, initially straight ahead to **4000** or **I-SAT** D4 whichever is later then turn left to **NDB CDF** to hold at **5000.** MAX 230KIAS.



Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**680**(547)	**680**(547)	**680**(547)	**680**(547)
VM(C)OCA (OCH AAL)	**Total Area**	**830**(666)	**830**(666)	**1560**(1396)	**1560**(1396)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

CHANGE (8/21): CARDIFF APPROACH FREQUENCY AMENDED.

AERO INFO DATE 14 MAY 21

AD 2-EGSY-8-2

EGSG — STAPLEFORD

EGSG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGSG — STAPLEFORD

EGSG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513909N Long: 0000922E
2	Direction and distance from city	4.5 NM N of Romford.
3	Elevation / Reference temperature / Mean Low Temperature	185 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	1.41°E (2027) / 0.17°E
6	AD Administration Address Telephone Telefax	STAPLEFORD FLIGHT CENTRE. Stapleford Aerodrome, Nr. Romford, Essex, RM4 1SJ. 01708-688380 01708-688421
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGSG AD 2.3 OPERATIONAL HOURS

1	AD Administration	0830-SS (0730-SS).
2	Customs and immigration	By arrangement (2 HR notice required).
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. Outside published hours of operation a minimum of 2 hours notice is required.

EGSG AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL W80, W100, M15/50.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGSG AD 2.5 PASSENGER FACILITIES

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EGSG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 available on request.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGSG AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGSG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway EASTERN: Surface: Grass Taxiway NORTHERN: Surface: Asphalt Taxiway SOUTHERN: Surface: Grass Taxiway WESTERN: Surface: Grass
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGSG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGSG AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
21/APPROACH 03/TAKE-OFF	Vehicles on Road	513926N 0000936E	130 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Power Lines running NW SE	514017N 0001041E	396 FT		No	
	House	513923N 0000951E	225 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Mast	513807N 0000819E	480 FT		No	

EGSG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGSG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
03L	035.49°	900 x 30 M	RWY surface: Grass	513855.45N 0000903.63E	THR 185.0 FT	
21R	215.50°	900 x 30 M	RWY surface: Grass	513919.26N 0000930.93E	THR 115.0 FT	
03R	035.50°	1077 x 46 M	RWY surface: Asphalt and grass	513854.70N 0000905.20E	THR 185.0 FT	
21L	215.51°	1077 x 46 M	RWY surface: Asphalt and grass	513918.58N 0000932.57E	THR 115.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 03L Runway markings: Runway is marked by white corners and white painted edge markings.
						RWY 21R Runway markings: Runway is marked by white corners and white painted edge markings.
						RWY 03R Includes 50 M starter extension.
						RWY 21L Threshold displaced by 177 M. Includes 23 M starter extension. The first 400 M of Landing distance is asphalt. Runway markings: Displaced threshold and runway designators are marked on the asphalt insert.

EGSG AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03R	1127 M	1150 M	1127 M	1077 M	
21L	1100 M	1150 M	1100 M	900 M	
03L	900 M	900 M	900 M	900 M	
21R	900 M	900 M	900 M	900 M	

EGSG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
03R	Sodium lights at the start of Runway 21L and 03R. Light intensity high	Light intensity low	APAPI Right/ 4.5° 26 FT			Light intensity low			
21L	Sodium lights at the start of Runway 21L and 03R. Light intensity high	Light intensity low	APAPI Left/ 4.25° 26 FT			Light intensity low			

EGSG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGSG AD 2.16 HELICOPTER LANDING AREA

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EGSG AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
STAPLEFORD ATZ A circle, 2 NM radius, centred at 513909N 0000922E on longest notified runway (03R/ 21L)	Upper limit: 2000 FT AGL Lower limit: SFC	G	STAPLEFORD RADIO English	6000 FT		

EGSG AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	STAPLEFORD RADIO	122.805 A/G frequency.			0800-1800 (0700-1700).	ATZ hours coincident with A/G hours.

EGSG AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 1.41°E (2027) 1.1°E (2025)	LAM	103X 115.600 MHz	H24	513845.69N 0000906.13E	241 FT	VOR DOC: 30 NM/50,000 FT (40 NM/ 50,000 FT in Sectors R064-099, R139-174 and R249-289). DME DOC: 40 NM/50,000 FT (110 NM/50,000 FT in Sector R314-134).

EGSG AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

Not applicable

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Caution is necessary when operating from Runway 03/21 because of a radio mast 295 ft aal southwest of the aerodrome and 1 nm from Runway 03R threshold.
b) Caution is necessary as the aerodrome is used heavily for flying training.
c) Not all taxiways are available for use. Pilots are warned that departure from the marked movement area can be hazardous.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGSG AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots of aircraft are requested to avoid overflying the villages of Abridge and Lambourne below 1000 ft agl.

EGSG AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuits normally LH.
b) Runway 21 departures. Right turnout on request.

EGSG AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGSG AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGSG-2-1

EGSG AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 513909N 0000922E

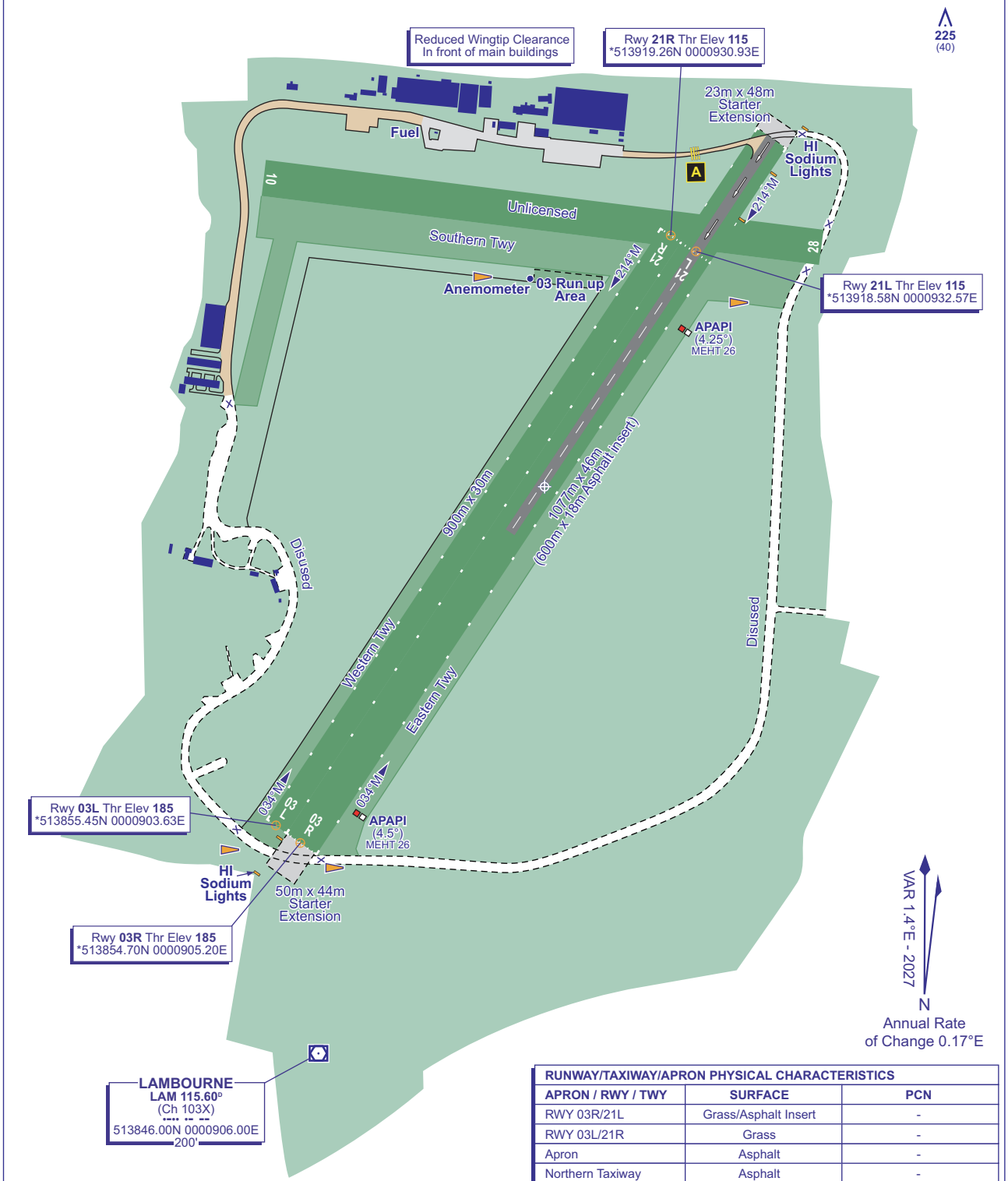
AD ELEV 185FT

STAPLEFORD
EGSG

BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	225 (40)

COM		
A/G	122.805	STAPLEFORD RADIO
LIGHTING		
THR 03R/21L RWY 03R/21L	LI. LI.	

50 0 50 100 150m
100 0 500ft



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**PCN**
RWY 03R/21L	Grass/Asphalt Insert	-
RWY 03L/21R	Grass	-
Apron	Asphalt	-
Northern Taxiway	Asphalt	-
Southern Taxiway	Grass	-
Eastern Taxiway	Grass	-
Western Taxiway	Grass	-

CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 23 JUL 25

AD 2-EGSG-2-1

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EGPO — STORNOWAY

EGPO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPO — STORNOWAY

EGPO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 581256N Long: 0061952W
2	Direction and distance from city	2 NM E of Stornoway.
3	Elevation / Reference temperature / Mean Low Temperature	26 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	184 FT
5	Magnetic Variation / Annual Change	2.86°W (2022) / 0.24°E
6	AD Administration Address Telephone	HIAL Stornoway Aerodrome, Isle of Lewis, HS2 0BN. 01851-702256 (Airport Switchboard) 01851-707444 (ATIS) 01851-703026 (Fuel - North Air) 01851-707406 (Admin)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPO AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645) and by arrangement with AD operator (HIAL).
2	Customs and immigration	Departures direct to an EU destination, no notice required. Arrivals direct from EU, 4 hours notice required. Departures and arrivals from Channel Islands, 12 hours notice required. Departures and arrivals from all other non EU Airports, 48 hours notice.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	See AD 2.18.
8	Fuelling	By arrangement with North Air.
9	Handling	By arrangement with HIAL, Tel: 01851-702256; e-mail: Stornatc@hial.co.uk; or Loganair, Tel: 01851-703673.
10	Security	As AD hours.
11	De-icing	Operational hours.
12	Remarks	This aerodrome is PPR. Filing of a Flight Plan does NOT constitute PPR. To cover the possibility of an aircraft which departs within 15 minutes of normal closing time having to return, the Aerodrome will normally retain sufficient services and equipment for 15 minutes after the time of actual departure. For PPR visit www.hial.co.uk.

EGPO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement with Loganair, Tel: 01851-703673
2	Fuel and oil types	AVGAS JET A-1, AVGAS 100LL.
3	Fuelling facilities/capacity	Bowser delivery. Limited stocks of AVGAS 100LL.
4	De-icing facilities	By arrangement with Loganair, Tel: 01851-703673, e-mail: syycs@loganair.co.uk.
5	Hangar space for visiting aircraft	Yes by arrangement with AD operator (HIAL).
6	Repair facilities for visiting aircraft	
7	Remarks	By arrangement with Loganair, Tel: 01851-703673, e-mail: syycs@loganair.co.uk. Basic handling available from HIAL, Tel: 01851-707415, e-mail: stornatc@hial.co.uk. Electronic motorised tug is available on request to HIAL.

EGPO AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels and B & B in vicinity.
2	Restaurants	Café available during terminal opening times.
3	Transportation	Taxis, Car hire and Buses.
4	Medical facilities	Limited first aid. Medical services contactable.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	Ambulift and wheelchair facilities are available upon request.

EGPO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A5 RFF Category 6 accepted under remission, by prior arrangement.
2	Rescue equipment	Limited water rescue facilities are available for Runways 18/36 and 06/24 during published opening hours and special/on call openings, subject to serviceability of equipment and times when the weather conditions and sea state are conducive to such rescue operations.
3	Capability for removal of disabled aircraft	Limited.
4	Remarks	

EGPO AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical and chemical de-icing. Surfaces de-iced/anti-iced with KAC/EG and/or NAAC.
2	Clearance priorities	Runway in use. Designated Taxi Routes. Main Apron and SAR Apron.
3	Remarks	For latest information telephone ATC.

EGPO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	LOWER APRON Surface: Concrete PCN 6/R/B/X/T MAIN APRON Surface: Brick PCN 32/F/B/X/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 15 M Surface: Asphalt PCN 15/F/A/X/T Taxiway APRON: 15 M Surface: Concrete Taxiway BRAVO: 15 M Surface: Asphalt PCN 9/F/B/Y/U Taxiway CHARLIE: 15 M Surface: Concrete
3	Altimeter checkpoint location and elevation	Main Apron 22 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Marshalling provided for all stands.

2	Runway and taxiway markings and lighting	Runway marking aid(s): 06/24: Runway designators and centre-line markings. Yellow lead on/off lines to all runways. 18/36: Runway designators and centre-line markings. Edge lines, TDZ markings on Runway 18/36. Yellow lead on/off lines to all runways. Taxiway marking aid(s): Yellow centre-line markings. Taxi holding point markings.
3	Stop bars and runway guard lights (if any)	A1, B1, C1, F1
4	Other runway protection measures	
5	Remarks	3 WDI's: 581229.70N 0061954.02W (LGTD) - 581320.23N 0061949.69W (LGTD) - 581257.70N 0061939.77W.

EGPO AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPO7336) 18/APPROACH 36/ TAKE-OFF	LLZ HUT	581332.61N 0062002.52W	27 FT	9 FT	Yes Red	
(EGPO8006) 18/APPROACH 36/ TAKE-OFF	LLZ 36 OBS	581332.44N 0061958.05W	25 FT	9 FT	Yes Red	
(EGPO8007) 18/APPROACH 36/ TAKE-OFF	LLZ 36 OBS	581332.37N 0061959.42W	25 FT	9 FT	Yes Red	
(EGPO8005) 18/APPROACH 36/ TAKE-OFF	LLZ 36	581332.33N 0061958.03W	25 FT	7 FT	No	
(EGPO8008) 18/APPROACH 36/ TAKE-OFF	LLZ 36	581332.26N 0061959.40W	25 FT	7 FT	No	
(EGPO7598) 24/TAKE-OFF	TREE	581233.47N 0062100.19W	126 FT	36 FT	No	
(EGPO8017) 36/APPROACH 18/ TAKE-OFF	APPROACH LT	581215.87N 0061944.19W	17 FT	2 FT	No	
(EGPO8026) 36/APPROACH 18/ TAKE-OFF	NFM 18	581215.56N 0061944.12W	18 FT	4 FT	No	
(EGPO8003) 36/APPROACH 18/ TAKE-OFF	LLZ 18	581213.31N 0061943.01W	27 FT	10 FT	No	
(EGPO8000) 36/APPROACH 18/ TAKE-OFF	LLZ 18	581213.24N 0061944.38W	27 FT	10 FT	No	
(EGPO8002) 36/APPROACH 18/ TAKE-OFF	LLZ 18 OBS	581213.20N 0061942.99W	27 FT	11 FT	Yes Red	
(EGPO8001) 36/APPROACH 18/ TAKE-OFF	LLZ 18 OBS	581213.13N 0061944.36W	27 FT	11 FT	Yes Red	
(EGPO8023) 36/APPROACH 18/ TAKE-OFF	LLZ HUT	581212.64N 0061947.43W	32 FT	7 FT	Yes	
(EGPO7127) 36/APPROACH 18/ TAKE-OFF	MOBILE OBST	581212.41N 0061941.44W	32 FT	16 FT	No	
(EGPO7126) 36/APPROACH 18/ TAKE-OFF	MOBILE OBST	581212.34N 0061942.69W	34 FT	16 FT	No	
(EGPO7125) 36/APPROACH 18/ TAKE-OFF	MOBILE OBST	581212.26N 0061943.98W	38 FT	16 FT	No	
(EGPO7124) 36/APPROACH 18/ TAKE-OFF	MOBILE OBST	581212.18N 0061945.34W	41 FT	16 FT	No	
(EGPO7123) 36/APPROACH 18/ TAKE-OFF	MOBILE OBST	581212.11N 0061946.53W	44 FT	16 FT	No	
(EGPO1136) 36/APPROACH 18/ TAKE-OFF	POWER POLE	581155.29N 0061947.00W	78 FT	27 FT	No	
(EGPO1152) 36/APPROACH 18/ TAKE-OFF	BUILDING	581154.21N 0061954.11W	77 FT	25 FT	No	
(EGPO1146) 36/APPROACH 18/ TAKE-OFF	BUILDING	581154.00N 0061948.79W	72 FT	20 FT	No	
(EGPO3076) 36/APPROACH 18/ TAKE-OFF	TELEPHONE POLE	581153.31N 0061953.84W	82 FT	25 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPO3078) 36/APPROACH 18/ TAKE-OFF	TELEPHONE POLE	581153.29N 0061942.85W	66 FT	28 FT	No	
(EGPO7558) 36/APPROACH 18/ TAKE-OFF	TREE	581153.25N 0061944.42W	65 FT	25 FT	No	
(EGPO7563) 36/APPROACH 18/ TAKE-OFF	TREE	581153.07N 0061952.77W	74 FT	15 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPO1928)	WIND TURBINE	581955.29N 0061354.18W	596 FT	253 FT	No	
(EGPO7930)	TREE	581449.13N 0062022.73W	151 FT	64 FT	No	
(EGPO3066)	WIND TURBINE	581440.19N 0062412.04W	409 FT	132 FT	No	
(EGPO1528)	MAST	581422.92N 0062348.98W	317 FT	49 FT	No	
(EGPO3104)	WIND TURBINE	581357.32N 0063035.55W	967 FT	388 FT	Yes Red	
(EGPO1904)	WIND TURBINE	581357.24N 0063055.84W	857 FT	386 FT	Yes Red	
(EGPO7776)	BUILDING FLAGPOLE	581318.85N 0062401.20W	331 FT	100 FT	No	
(EGPO8012)	NDB SAY	581255.72N 0061944.69W	46 FT	35 FT	Yes Red	
(EGPO8010)	DME STW SOY	581254.56N 0061944.77W	28 FT	16 FT	Yes Red	
(EGPO3030)	TXRX MAST	581251.64N 0061931.70W	55 FT	42 FT	Yes Red	
(EGPO8069)	WIND TURBINE	581239.23N 0062931.89W	995 FT	657 FT	No	
(EGPO7743)	TREE	581237.75N 0062353.15W	229 FT	121 FT	No	
(EGPO7770)	TREE	581211.69N 0062351.41W	259 FT	61 FT	No	
(EGPO3032)	WIND TURBINE	581129.68N 0061608.16W	221 FT	71 FT	Yes Red	

EGPO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing provided by ATS.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English
7	Charts and other information available for briefing or consultation	Available on request from ATC.
8	Supplementary equipment available for providing information	Tel: ATIS (01851-707444 – H24).
9	ATS units provided with information	STORNOWAY
10	Additional information (limitation of service, etc.)	Outside aerodrome hours unverified automatic observations via ATIS on the telephone (see item 8).

EGPO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
06	059.87°	1000 x 23 M	RWY surface: Asphalt PCN 9/F/B/Y/U	581242.81N 0062012.82W 184.4 FT	THR 25.6 FT	
24	239.88°	1000 x 23 M	RWY surface: Asphalt PCN 9/F/B/Y/U	581259.02N 0061919.88W 184.4 FT	THR 21.3 FT	
18	174.27°	2088 x 45 M	RWY surface: Asphalt, Grooved PCN 47/F/A/W/T	581327.77N 0061957.85W 184.3 FT	THR 16.3 FT	
36	354.28°	2088 x 45 M	RWY surface: Asphalt, Grooved PCN 47/F/A/W/T	581220.65N 0061945.10W 184.4 FT	THR 15.2 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	150 x 80 M	1120 x 80 M				RWY 06
	150 x 80 M	1120 x 80 M				RWY 24
	142 x 150 M	2208 x 280 M				RWY 18 The 120 M of asphalt north of Runway 18 threshold is unfit for use by aircraft.
	141 x 140 M	2208 x 280 M				RWY 36 The 120 M of asphalt south of Runway 36 threshold is unfit for use by aircraft.

EGPO AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
18	2088 M	2230 M	2088 M	2088 M	
36	2088 M	2229 M	2088 M	2088 M	
18	1829 M	1972 M	1829 M		Take-off from Intersection with A1.
18	923 M	1065 M	923 M		Take-off from Intersection with RWY 06/24.
36	1715 M	1856 M	1715 M		Take-off from Intersection with C1.
36	1189 M	1330 M	1189 M		Take-off from Intersection with RWY 06/24.
06	1000 M	1150 M	1000 M	1000 M	
24	1000 M	1150 M	1000 M	1000 M	

EGPO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06		Green Light intensity low Portable electric green wingbars. Portable LI electric lights are available for use on Runway 06/24 as edge, threshold wingbar and stop end lighting. Minimum 30 minutes prior notification required in order to deploy lighting.	APAPI Left/4° 25 FT 134.5 M			Portable electric gauge 24 M Light intensity low	Portable electric Red Light intensity low		
24		Green Light intensity low Portable electric green wingbars. Portable LI electric lights are available for use on Runway 06/24 as edge, threshold wingbar and stop end lighting. Minimum 30 minutes prior notification required in order to deploy lighting.	APAPI Left/3.5° 20 FT 135.5 M			Portable electric gauge 24 M Light intensity low	Portable electric Red Light intensity low		
← 18	Centre-line with one crossbar. 150 M Light intensity high	Light intensity high Green wingbars	PAPI Left/3° 64 FT 396 M			Gauge 54 M. White with final 600 M yellow. Light intensity high	Red		
← 36	Centre-line with four crossbars. 750 M Light intensity high	Light intensity high Green wingbars	PAPI Left/3° 38 FT 240 M			Gauge 54 M. White with final 600 M yellow. Light intensity high	Red		

EGPO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: Runway 18 - 581315.67N 0061947.29W, Runway 36 - 581232.16N 0061940.25W.
3	TWY edge and centre line lighting	EDGE: Blue edge Apron/Taxiway Alpha, Bravo and Charlie. Temporary raised taxiway edge lights on parts of Taxiways Bravo and Charlie replacing U/S flush lights.
4	Secondary power supply/switch-over time	Standby generator/15 seconds.
5	Remarks	Apron Floodlighting. Obstacle lighting.

EGPO AD 2.16 HELICOPTER LANDING AREA

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EGPO AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
STORNOWAY ATZ A circle, 2.5 NM radius, centred at 581256N 0061952W on longest notified runway (18/36)	Upper limit: 2000 FT AGL Lower limit: SFC	G	STORNOWAY APPROACH English	3000 FT		ATZ may be re-activated at short notice, at any time, for air ambulance, SAR or emergency traffic. Pilots are advised to regard the ATZ as permanently active and to call and listen out on RTF.

EGPO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	STORNOWAY APPROACH	119.480 DOC 50 NM/ 15,000 FT.			Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	ATZ hours coincident with Approach hours. VDF 581247.95N 0061936.04W
TWR	STORNOWAY TOWER	119.480			Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	VDF 581247.95N 0061936.04W
AFIS	STORNOWAY INFORMATION	119.480			By arrangement outside hours of ATC - Normally only available for SAR and Ambulance flights and aircraft in an emergency	VDF 581247.95N 0061936.04W Due to AFISO training and maintenance of currency, AFISO phraseology may be in use during ATC published hours, with ATC in attendance. ATC service will remain available at all times. Pilots will be advised of periods of AFISO training, normally via ATIS.
ATIS	STORNOWAY INFORMATION	115.100 Frequency shared with VOR STN.			Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	
OTHER	STORNOWAY FIRE CHIEF	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC 1.79°W (2027)	STW	110.900 MHz	Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	581213.22N 0061943.69W		(RWY 18) LOC only. Hours of Operation as APP/TWR. See latest NOTAM for details.
ILS/LOC 1.79°W (2027)	SOY	110.900 MHz	Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	581332.35N 0061958.72W		(RWY 36) LOC only.
VOR/DME 1.72°W (2027) 2.2°W (2022)	STN	98X 115.100 MHz	Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	581225.02N 0061058.97W	299 FT	VOR/DME DOC: 105 NM/50,000 FT (200 NM/50,000 FT in Sector R167-107). L and VOR/DME available for approach and landing purposes only during the hours of APP.
NDB (L) 1.79°W (2027)	SAY	431.000 kHz	Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	581255.72N 0061944.69W		On AD. Range 40 NM. Co-located at DME. Normally radiates H24. L and VOR/DME available for approach and landing purposes only during the hours of APP.
DME	SOY	46X 110.900 MHz	Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	581254.56N 0061944.77W	28 FT	(RWY 36) On AD. DOC 25 NM/10,000 FT. DME frequency paired with LOC STW and SOY. Zero range is indicated at THR of Runway 18 and 36.
DME	STW	46X 110.900 MHz	Mon-Fri 0700-1945 (0600-1845); Sat 0700-1530 (0600-1430); Sun 1245-1745 (1145-1645).	581254.56N 0061944.77W	28 FT	(RWY 18) On AD. DOC 25 NM/10,000 FT. DME frequency paired with LOC STW and SOY. Zero range is indicated at THR of Runway 18 and 36.

EGPO AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of this airport by aircraft not able to communicate with ATC by radio is strictly PPR.
b) Aircraft that do not require the use of a licensed aerodrome and that wish to operate outwith the notified aerodrome hours of operation must comply with Highlands and Islands Airports Limited Out of Hours Indemnity Scheme. Details of the scheme and an application form can be obtained from the HIAL website or HIAL Tel: 01667-462445.
c) Use of Stornoway aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.
d) High visibility clothing is to be worn when airside.

2 GROUND MOVEMENT

a) Pilots are advised that the width of the Alpha and Charlie taxiways on the East side of the aerodrome is 15 M.
b) Pilots are reminded that aircraft using the Main Apron will normally be marshalled. Caution should be exercised when manoeuvring due to the proximity of lighting pylons at the southern edge of the Main apron.
c) Pilots should exercise caution when operating in the area north and south of the hangar because of vehicular activity which is not subject to ground movement control.
d) All parking is normally under the direction of the marshaller.
e) The taxiway to the north of Echo 2 is unusable.
f) To permit crossing of the southern taxiway by pedestrians and non-radio equipped vehicles, a crossing is established between Taxiway Charlie and the Control Tower Building. During the notified hours of ATC/AFIS this crossing is controlled by traffic lights. The traffic light signal is located above the front door of the Control Tower. Pedestrians and vehicles must not cross the taxiway, in either direction, when this light is red. Outwith the notified hours of ATC/AFIS the traffic light is OFF, however, pedestrians/vehicles must exercise extreme caution as aircraft operating out of hours may be using the taxiway. This crossing is not available during LVP operations, ATC will advise.
g) Marshalling will be provided at the Marshaller's discretion when the wind speed is in excess of 40 KT.
h) When manoeuvring on Runway 18/36 aircraft must not proceed beyond the runway stopend lights. The area beyond is unfit for normal movement of aircraft and is marked as such by yellow chevrons.
i) Access from the Lower Apron is restricted to the adjacent exit gate and to the ATC building. A walkway (painted green) with painted footprints and signage will guide all Lower Apron users to either the ATC Control Tower building or the exit gate. Crossing the active taxiway to the ATC Control Tower building is controlled by traffic lights situated above the entry door of the Control Tower building. Airside access to the Terminal building from either the Lower Apron or ATC is strictly prohibited and the exit gate adjacent to the Lower Apron must always be used.To open the pedestrian gate, first press the electrical release switch on the grey cabinet to the left of the gate, then twist the opening handle. Ensure that the gate is securely closed after you pass through. Be advised the access gate is electronically controlled, so when you require access airside you will have to visit the Security Office in the main Terminal who will issue you with a Temporary Airside Pass (don’t forget to have your photo ID and hi-visibility jacket with you), they will then escort you airside.Once airside, hangar access is by request to the marshaller or telephone 01851-707415 (ATC).

j) High ground to north and west rising to 1000 FT within 7 NM.
k) Pilots are reminded that Taxiway Alpha, between main apron Gate 10 and the Gaydon hangar, is used regularly by vehicular traffic under the control of ATS. Vehicles using this taxiway may be seen by taxiing aircraft using the Apron Taxiway, Taxiway Bravo and Taxiway Charlie.
l) Landing fees shall be issued via invoice. Billing address details will be obtained from PPR forms.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) No ground signals except light signals.
b) Flocks of geese present in fields adjacent to the aerodrome, all year round.
c) Birds can be expected on all approaches. Dedicated bird patrols during operational hours under control of ATS. Increased risk from birds at low tide on approach to Runway 18.
d) Minimum approach angles of 3° (indicated by the PAPI) must be strictly adhered to when using Runway 36 due to vehicles on road within undershoot.
e) Grass areas are soft and unsafe. Poor load bearing characteristics may be found on runway/taxiway strips and the area adjacent to the apron. Only marked taxiways are to be used. Pilots are warned to exercise caution whilst taxiing between the Main Apron and Alpha 3 as this portion of taxiway includes a compound curve and taxiway centre-line markings must be followed to ensure clearance distances from pavement edge are maintained.
f) A Coastguard helicopter operates from Stornoway and will be given appropriate priority over other traffic when operating on search and rescue duties. These activities may take place throughout the 24 hour period and pilots using out of hours permission at Stornoway should therefore exercise appropriate caution.
g) Pilots are reminded that they should not cross the Runway 18 threshold when lining up for departure. The area beyond the Runway 18 threshold and marked with chevrons is for the protection of the Runway 36 Localiser monitor antenna (Lit).

5 HELICOPTER OPERATIONS

a) Light helicopters are not required to use the runways and may arrive depart from the appropriate apron.
b) Rotors running refuel is not permitted.
c) Pilots of helicopters engaged in Public Transport Operations are required to provide ATS an ETA/ETD giving at least 10 minutes notice. This may be done via telephone or RTF.
d) Pilots are reminded that routine helicopter winching training takes place on the Gaydon South Apron and the Gaydon North Apron. S92 helicopters may hover, up to a max of 300 FT AGL with the winch cable attached to a ground weight. These operations are separated for wake turbulence purposes from Runways 18/36 and 06/24. Traffic Information on these operations will be passed by ATS.

6 USE OF RUNWAYS

a) Runway 06/24 is not available for night landings but is available for use by Air Ambulance and SAR ops on request.
b) Runway departure restriction for aircraft requiring the use of a licensed aerodrome:

i. **Runway 18/36** . Except where an AOC holder has a less restrictive State authorised take-off minima, departures in RVR conditions of less than 400 M are not permitted;
ii. **Runway 06/24** . Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 800 M or less are not permitted.

c) Runway 06/24 is not available for landing or take-off outside of aerodrome opening hours. Aircraft operating outside aerodrome opening hours in accordance with HIAL's Out of Hours Indemnity Scheme must exercise caution when taxiing on the Charlie, Bravo and Alpha Taxiways as vehicles may be operating on those routes.

7 TRAINING

Not applicable

EGPO AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGPO AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

2 NORTH ATLANTIC DEPARTURES

a) Due to the proximity of the Shanwick Oceanic boundary to Stornoway, pilots must consider timescales for submitting an 'RCL'. Refer to ENR 2.2, paragraph 3.8.2 for details.

3 CIRCUITS

a) Circuit directions: Runways 18 and 24 - LH; Runways 06 and 36 - RH. Unless otherwise instructed by ATC.

4 AIR TRAFFIC SERVICES OUTSIDE CONTROLLED AIRSPACE

a) During notified ATC hours of Service, a procedural service will routinely be applied to IFR flights. Pilots will be expected to accept Level, Radial, Track and Time allocations that may require flight in IMC. A basic service will be routinely applied to VFR flights. A pilot may request another service if considered more appropriate.
b) Outside notified ATC hours of service, a basic service will always be applied to SAR and ambulance flights by an AFISO.

5 RADIO COMMUNICATION FAILURE PROCEDURES

a) The pilot of a VFR flight experiencing communications failure should join overhead at 2000 FT and descend into the circuit pattern for the runway in use watching for light signals from the Tower all the while. Should a light signal not be forthcoming on turning onto final approach, the pilot should level off at not below 450 FT and fly parallel to the runway, and adjacent to the Tower, to attract attention.

6 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGPO AD 2.23 ADDITIONAL INFORMATION

a) Aircraft operators are responsible for the searching of any aircraft parked either overnight or within the demarcated area prior to departure.

EGPO AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPO-2-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 18 - ICAO
AD 2.EGPO-8-1
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 18 - ICAO
AD 2.EGPO-8-2
INSTRUMENT APPROACH CHART NDB(L) RWY 18 - ICAO
AD 2.EGPO-8-3
INSTRUMENT APPROACH CHART DIRECT ARRIVALS to LOC and NDB(L) RWY 18 - ICAO
AD 2.EGPO-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 36 - ICAO
AD 2.EGPO-8-5
INSTRUMENT APPROACH CHART LOC/NDB(L) RWY 36 - ICAO
AD 2.EGPO-8-6
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 36 - ICAO
AD 2.EGPO-8-7
INSTRUMENT APPROACH CHART NDB(L) RWY 36 - ICAO
AD 2.EGPO-8-8
INSTRUMENT APPROACH CHART DIRECT ARRIVALS to LOC and NDB(L) RWY 36 - ICAO
AD 2.EGPO-8-9
INSTRUMENT APPROACH CHART VOR/DME TO AERODROME - ICAO
AD 2.EGPO-8-10

EGPO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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AERODROME CHART - ICAO

ARP 581256N 0061952W

AD ELEV 26FT

STORNOWAY
EGPO

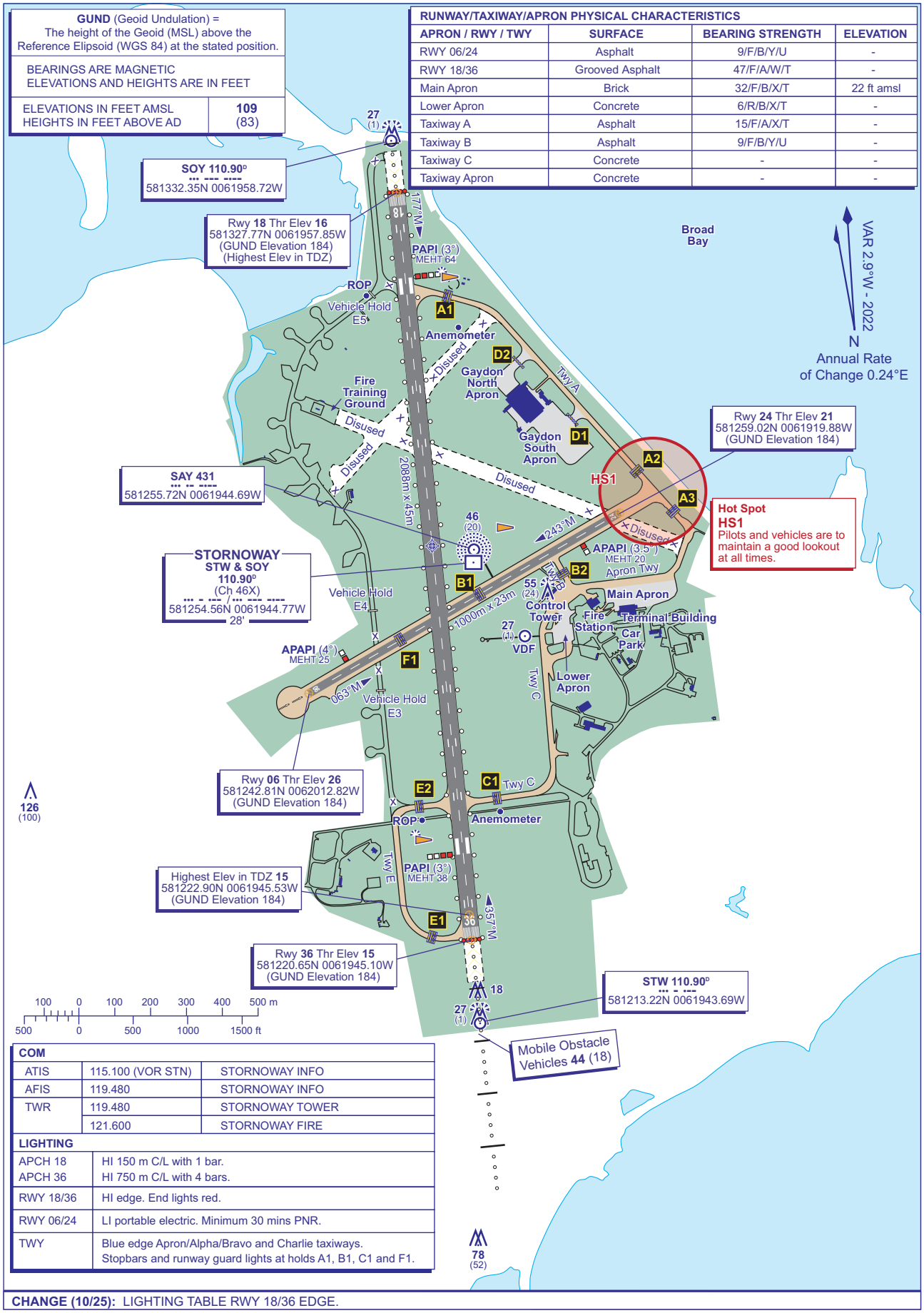
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD — **109** (83)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS

APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 06/24	Asphalt	9/F/B/Y/U	-
RWY 18/36	Grooved Asphalt	47/F/A/W/T	-
Main Apron	Brick	32/F/B/X/T	22 ft amsl
Lower Apron	Concrete	6/R/B/X/T	-
Taxiway A	Asphalt	15/F/A/X/T	-
Taxiway B	Asphalt	9/F/B/Y/U	-
Taxiway C	Concrete	-	-
Taxiway Apron	Concrete	-	-



COM		
ATIS	115.100 (VOR STN)	STORNOWAY INFO
AFIS	119.480	STORNOWAY INFO
TWR	119.480	STORNOWAY TOWER
	121.600	STORNOWAY FIRE

LIGHTING	
APCH 18 APCH 36	HI 150 m C/L with 1 bar. HI 750 m C/L with 4 bars.
RWY 18/36	HI edge. End lights red.
RWY 06/24	LI portable electric. Minimum 30 mins PNR.
TWY	Blue edge Apron/Alpha/Bravo and Charlie taxiways. Stopbars and runway guard lights at holds A1, B1, C1 and F1.

CHANGE (10/25): LIGHTING TABLE RWY 18/36 EDGE.

AERO INFO DATE 15 JUL 25

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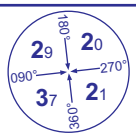
INSTRUMENT APPROACH CHART - ICAO

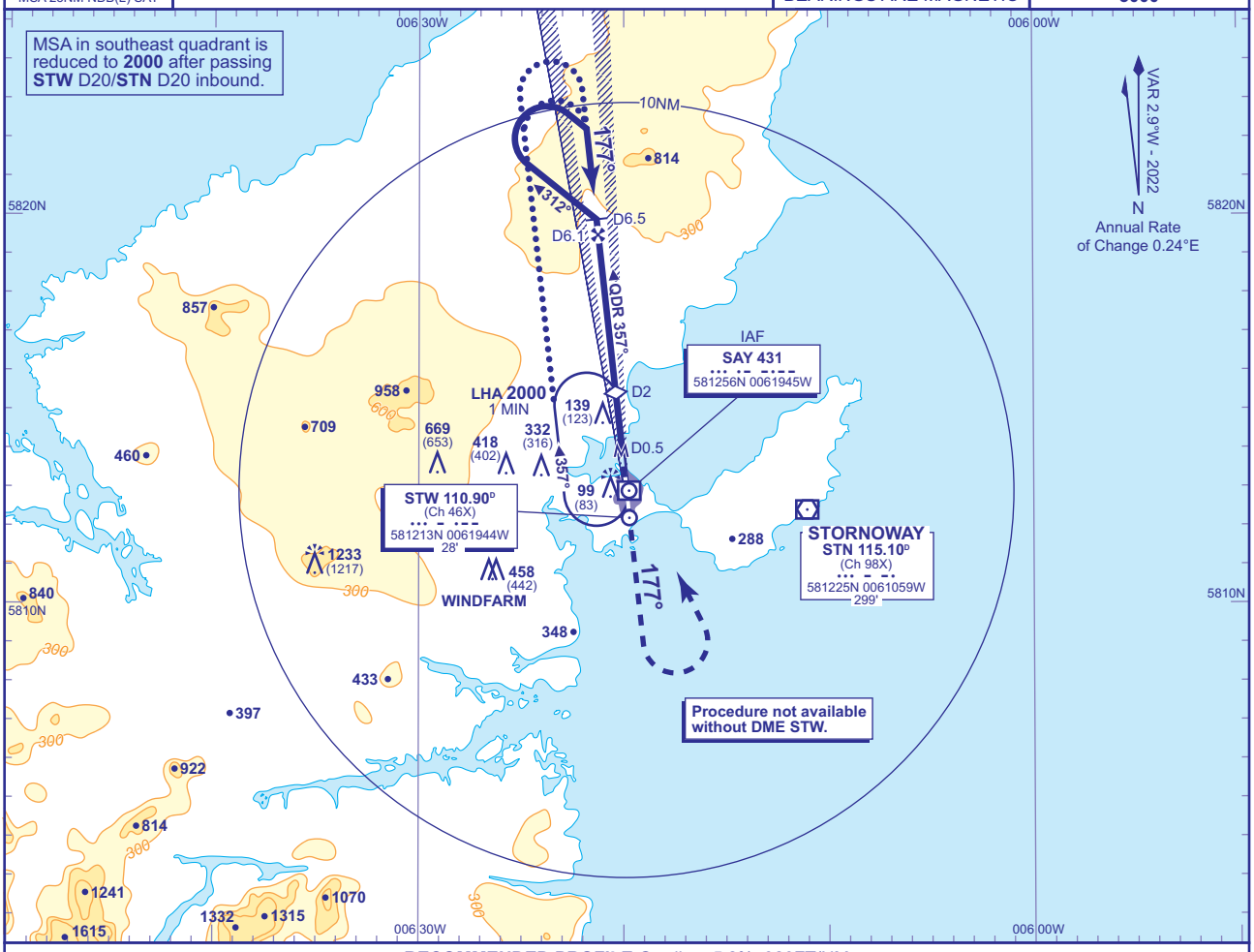
STORNOWAY LOC/DME/NDB(L) RWY 18
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) SAY

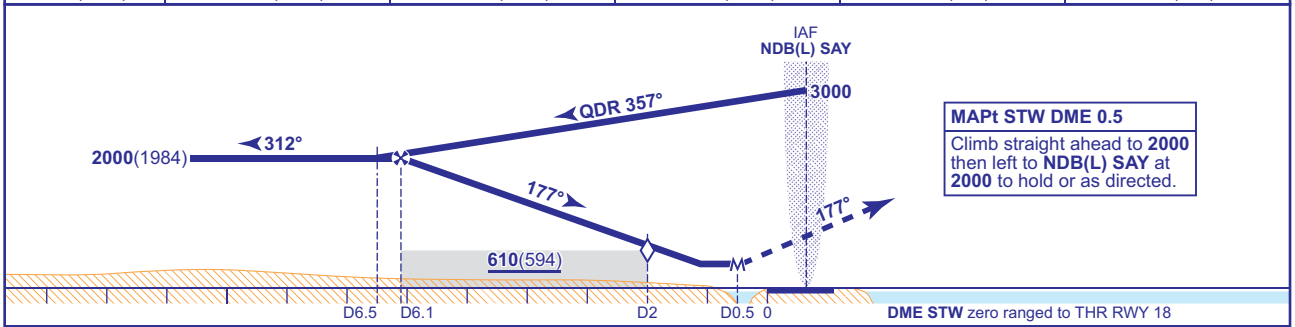
APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	16
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION	1233 AMSL (1217) (ABOVE THR)
ATIS	115.100	STORNOWAY INFORMATION	BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME STW	5	4	3	2 (SDF)	1
ALT(HGT)	**1650**(1634)	**1330**(1314)	**1020**(1004)	**700**(684)	**380**(364)



Aircraft Category		A	B	C	D
OCA (OCH)	LOC/DME	**390**(374)	**390**(374)	**390**(374)	**390**(374)
VM(C)OCA (OCH AAL)	Total Area	**500**(474)	**630**(604)	**860**(834)	**1060**(1034)
	East of RWY 18/36	**500**(474)	**530**(504)	**690**(664)	**770**(744)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	630	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) SAY (IAF) at **3000**(2984) extend the outbound leg of the holding pattern descending to **2000**(1984). At STW DME 9 (CAT A,B); STW DME 10 (CAT C,D), turn right onto LOC and continue as for basic procedure.

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Direct arrivals are detailed on AD 2-EGPO-8-5.
3 Initial approach from VOR/DME STN is detailed on AD 2-EGPO-8-4.

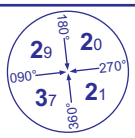
CHANGE (8/22): LOC/DME STW CALLSIGN CORRECTED.

AERO INFO DATE 17 MAY 22

AD 2-EGPO-8-1

INSTRUMENT APPROACH CHART - ICAO

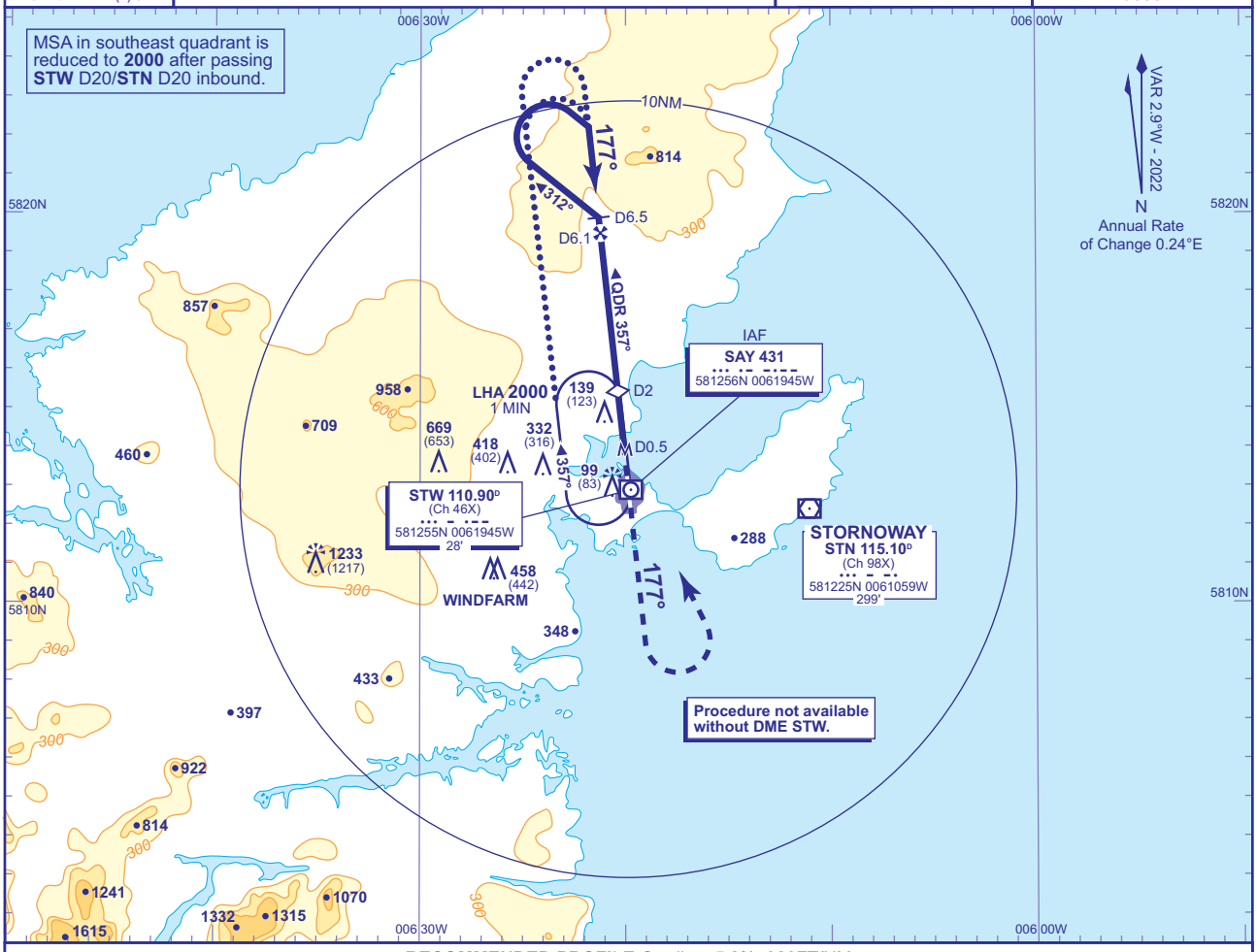
STORNOWAY NDB(L)/DME RWY 18
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) SAY

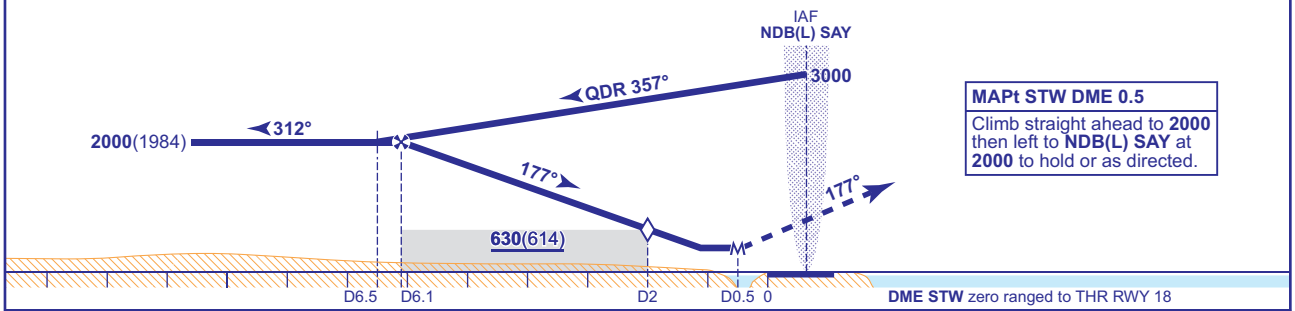
APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26	
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	16	
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION		
ATIS	115.100	STORNOWAY INFORMATION	**1233 AMSL** (1217) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME STW	5	4	3	2 **(SDF)**
ALT(HGT)	**1650**(1634)	**1330**(1314)	**1020**(1004)	**700**(684)



MAPt STW DME 0.5
Climb straight ahead to **2000** then left to **NDB(L) SAY** at **2000** to hold or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**420**(404)	**420**(404)	**420**(404)	**420**(404)
VM(C)OCA (OCH AAL)	**Total Area**	**500**(474)	**630**(604)	**860**(834)	**1060**(1034)
	East of RWY 18/36	**500**(474)	**530**(504)	**690**(664)	**770**(744)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	630	530	420

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) SAY (IAF) at **3000**(2984) extend the outbound leg of the holding pattern descending to **2000**(1984). At STW DME 9 (CAT A,B); STW DME 10 (CAT C,D), turn right onto extended FAT and continue as for basic procedure.

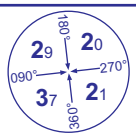
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Direct arrivals are detailed on AD 2-EGPO-8-5.
3 Initial approach from VOR/DME STN is detailed on AD 2-EGPO-8-4.

CHANGE (8/22): DME STW CALLSIGN CORRECTED.

AERO INFO DATE 17 MAY 22 AD 2-EGPO-8-2

INSTRUMENT APPROACH CHART - ICAO

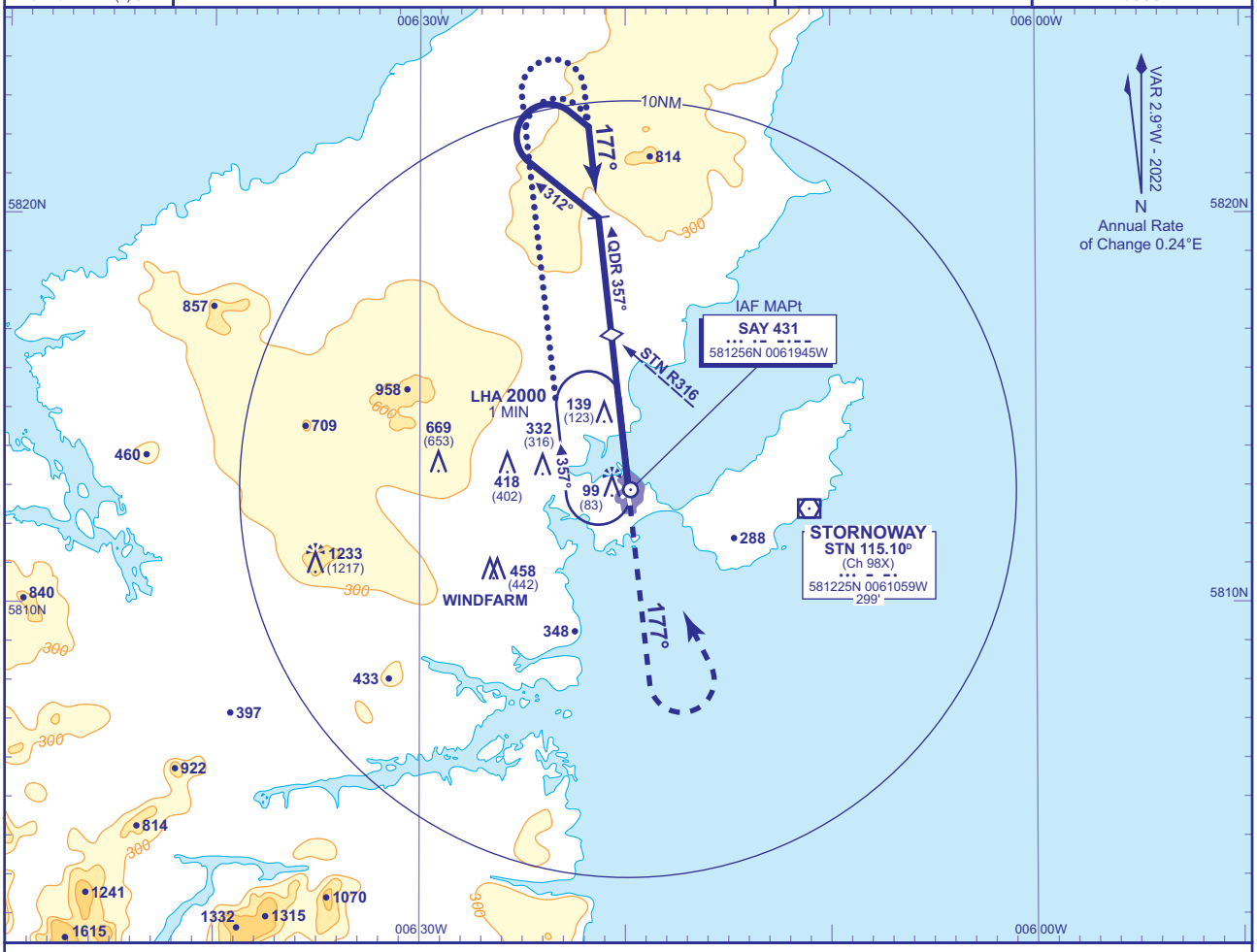
STORNOWAY NDB(L) RWY 18
(ACFT CAT A,B,C,D)

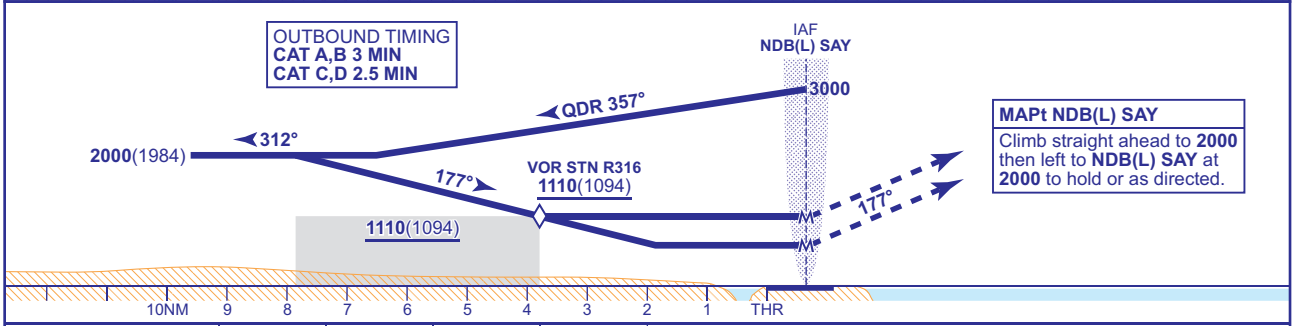


MSA 25NM NDB(L) SAY

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	16
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION	
ATIS	115.100	STORNOWAY INFORMATION	1233 AMSL (1217) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**





MAPt NDB(L) SAY
Climb straight ahead to **2000** then left to **NDB(L) SAY** at **2000** to hold or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	NO DME	**1110**(1094)	**1110**(1094)	**1110**(1094)	**1110**(1094)
	WITH STN	**610**(594)	**610**(594)	**610**(594)	**610**(594)
VM(C)OCA (OCH AAL)	Total Area	**1120**(1094)	**1120**(1094)	**1120**(1094)	**1120**(1094)
	East of RWY 18/36	**1120**(1094)	**1120**(1094)	**1120**(1094)	**1120**(1094)

ALTERNATIVE PROCEDURE EXTENDED HOLDING PATTERN
Overhead NDB(L) SAY (IAF) at **3000**(2984) fly outbound leg of the holding pattern for 3 MIN (CAT A,B) or 2.5 MIN (CAT C,D) descending to **2000**(1984), turn right onto FAT and continue as for basic procedure.

AIRCRAFT ABLE TO RECEIVE VOR STN
Aircraft able to receive VOR STN may continue to lower MDH after passing VOR STN step-down R316 inbound.

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Initial approach from VOR/DME STN is detailed on AD 2-EGPO-8-4.

CHANGE (6/25): VM(C)OCA(OCH AAL) TOTAL AREA AND EAST OF RWY 18/36 ALL CAT.

AERO INFO DATE 31 MAR 25
AD 2-EGPO-8-3

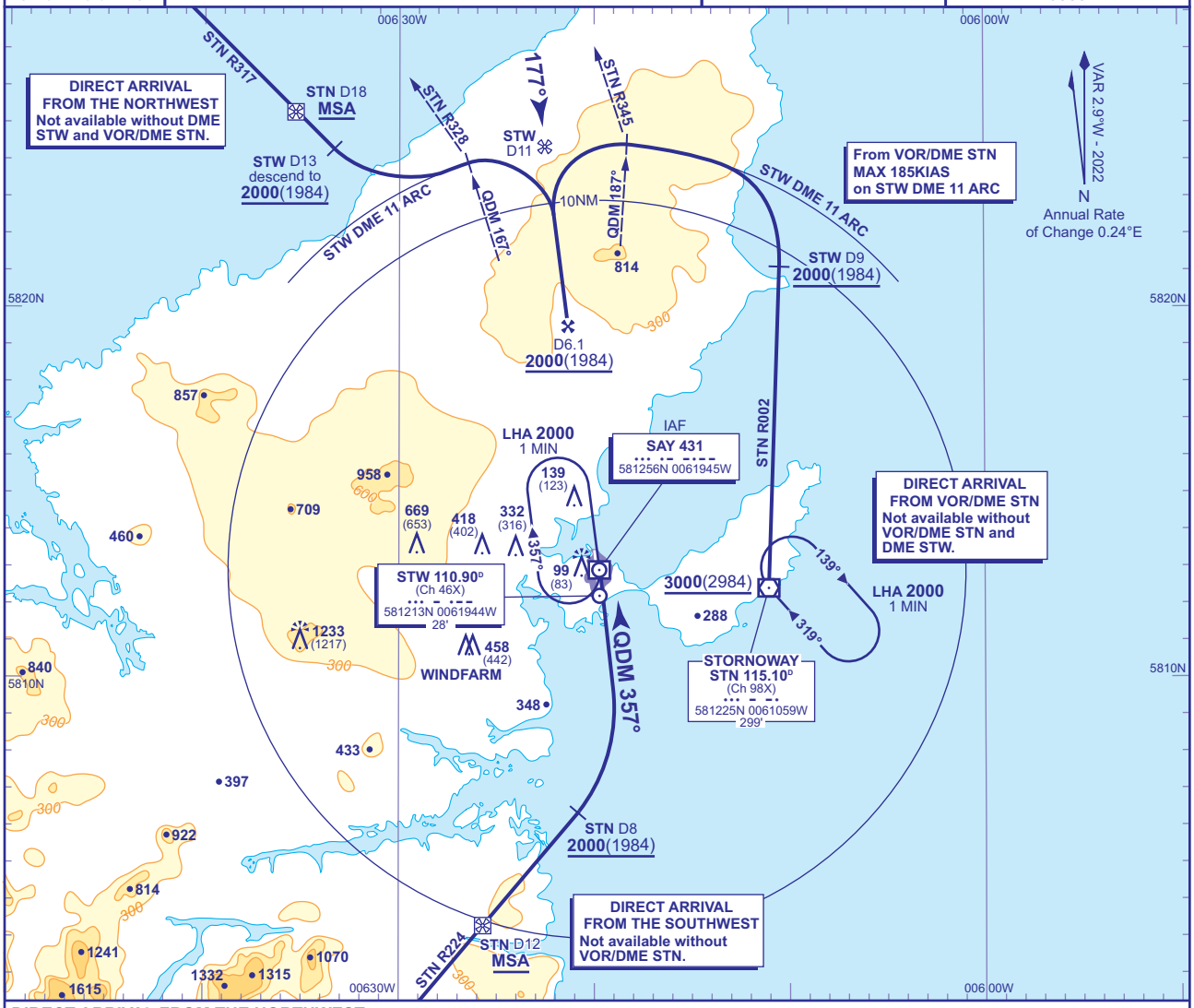
INSTRUMENT APPROACH CHART - ICAO

STORNOWAY DIRECT ARRIVALS to LOC and NDB(L) RWY 18
(ACFT CAT A,B,C,D)

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	16
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION 1233 AMSL (1217) (ABOVE THR)	
ATIS	115.100	STORNOWAY INFORMATION	BEARINGS ARE MAGNETIC	

MSA 25NM VOR/DME STN

TRANSITION ALTITUDE 3000



DIRECT ARRIVAL FROM THE NORTHWEST
Arrival from AKIVO on STN R317 (QDM 137°) **not below FL75**. Request ATC approval for direct arc arrival when within STN D43. Subject to ATC approval, after passing VOR STN D28 (STW D25) descend **not below MSA**, and after passing STN D18 (IAF) continue desecent to **2000**. At STW D13, turn left onto STW DME 11 arc clockwise; at lead radial NDB(L) SAY QDM 167° (VOR STN R328) turn right onto LOC/extended FAT. When established continue as for basic procedure.

DIRECT ARRIVAL FROM THE SOUTHWEST
Arrival on STN R224 (QDM 044°) **not below MSA**. Request ATC approval for direct arrival when within STN D30. Subject to ATC approval, after passing VOR STN D12 descend **not below 2000**. From STN D8 turn left to establish inbound to NDB(L) SAY QDM 357°. From NDB(L) SAY (IAF) at **2000**(1984) continue with appropriate procedure.

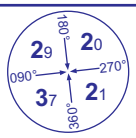
DIRECT ARRIVAL FROM VOR/DME STN
Arrival at VOR/DME STN **not below 3000** (lowest altitude to commence procedure from Hold is **3000**). Request ATC approval for direct arrival when within VOR/DME STN D30. Subject to ATC approval, after passing VOR/DME STN proceed on VOR/DME STN R002, descend to **not below 2000**. At STW D9 turn left onto the STW DME 11 arc anticlockwise; at lead radial NDB(L) SAY QDM 187° (VOR/DME STN R345) turn left on to LOC/extended FAT. When established continue as for basic procedure.

CHANGE (5/23): VOR STN RECALIBRATION.

AERO INFO DATE 24FEB 23 AD 2-EGPO-8-4

INSTRUMENT APPROACH CHART - ICAO

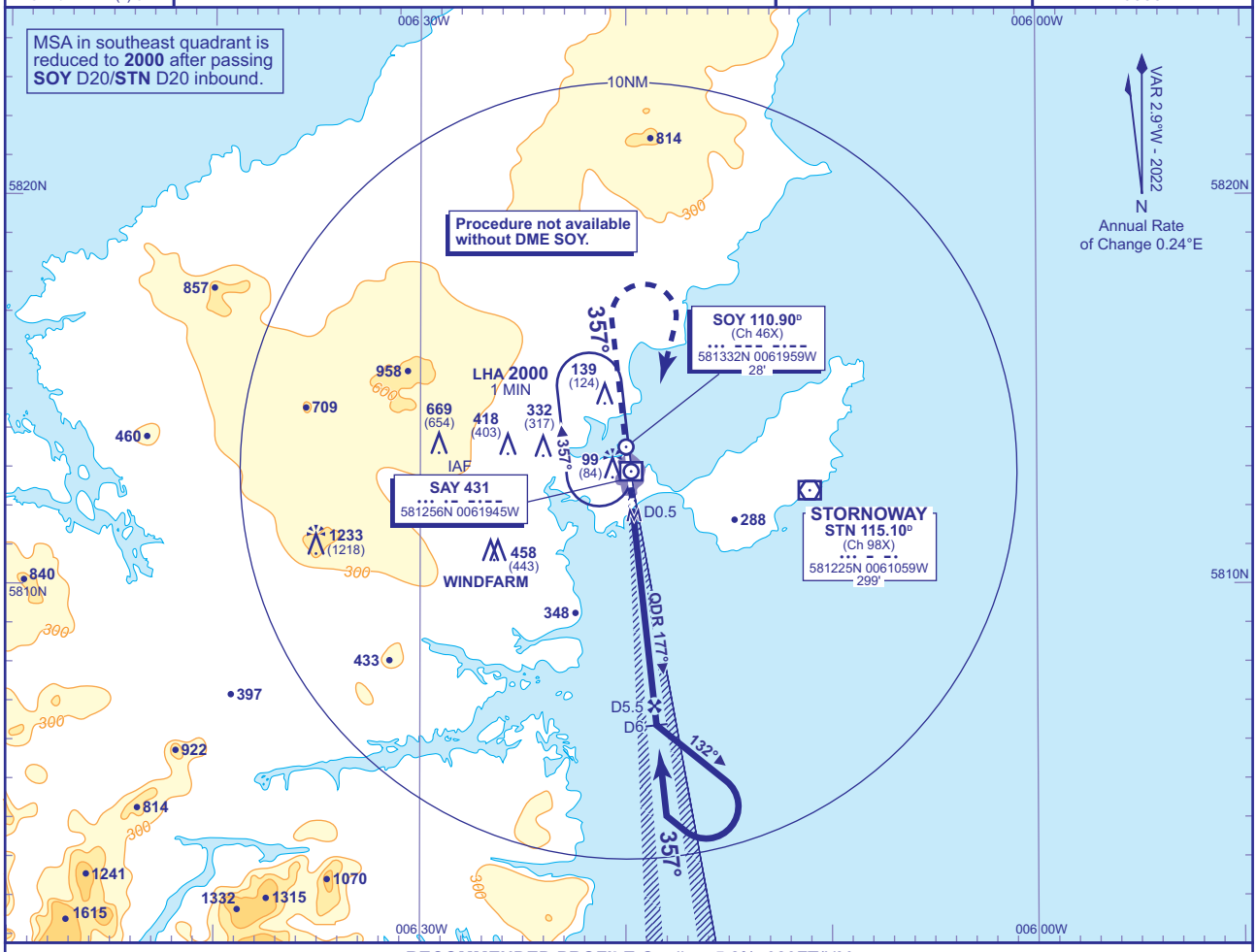
STORNOWAY LOC/DME/NDB(L) RWY 36
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) SAY

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	15
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION	
ATIS	115.100	STORNOWAY INFORMATION	1233 AMSL (1218) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

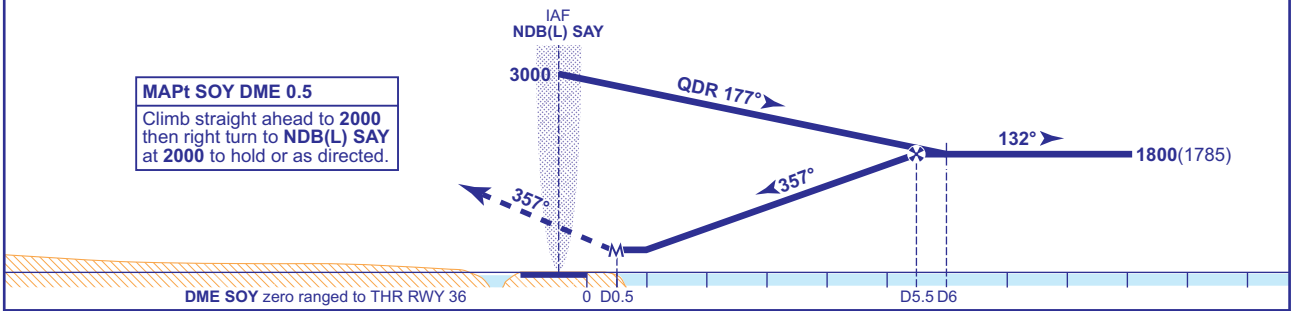
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME SOY	5	4	3	2	1
ALT(HGT)	**1640**(1625)	**1330**(1315)	**1010**(995)	**700**(685)	**380**(365)

MAPt SOY DME 0.5
Climb straight ahead to **2000** then right turn to **NDB(L) SAY** at **2000** to hold or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	LOC/DME	**330**(315)	**330**(315)	**330**(315)	**330**(315)
VM(C)OCA (OCH AAL)	Total Area	**500**(474)	**630**(604)	**860**(834)	**1060**(1034)
	East of RWY 18/36	**500**(474)	**530**(504)	**690**(664)	**770**(744)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	840	740	630	530	420

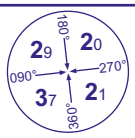
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Direct arrivals are detailed on AD 2-EGPO-8-10.

CHANGE (8/22): LOC/DME SOY CALLSIGN CORRECTED.

AERO INFO DATE 17 MAY 22

INSTRUMENT APPROACH CHART - ICAO

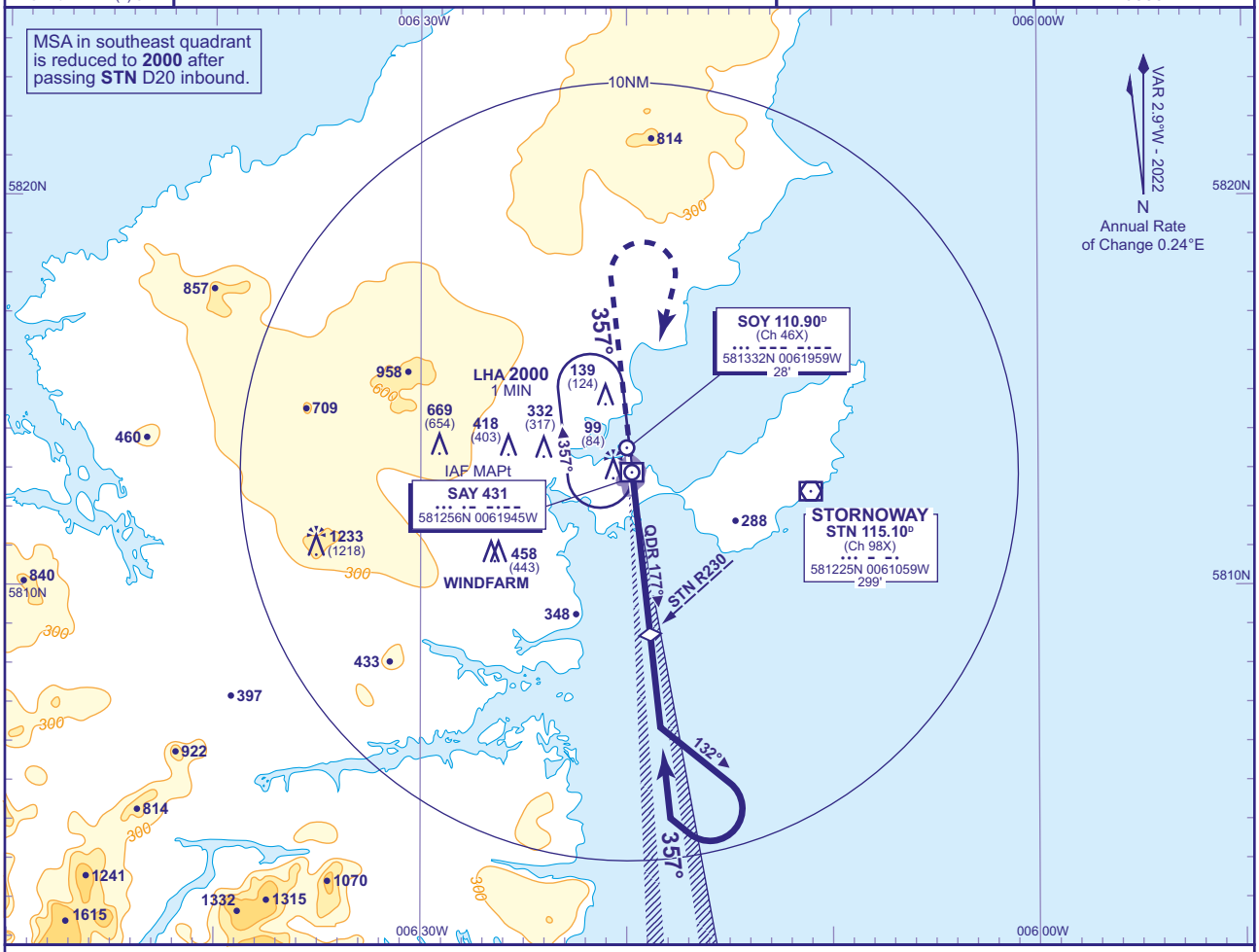
STORNOWAY LOC/NDB(L) RWY 36
(ACFT CAT A,B,C,D)

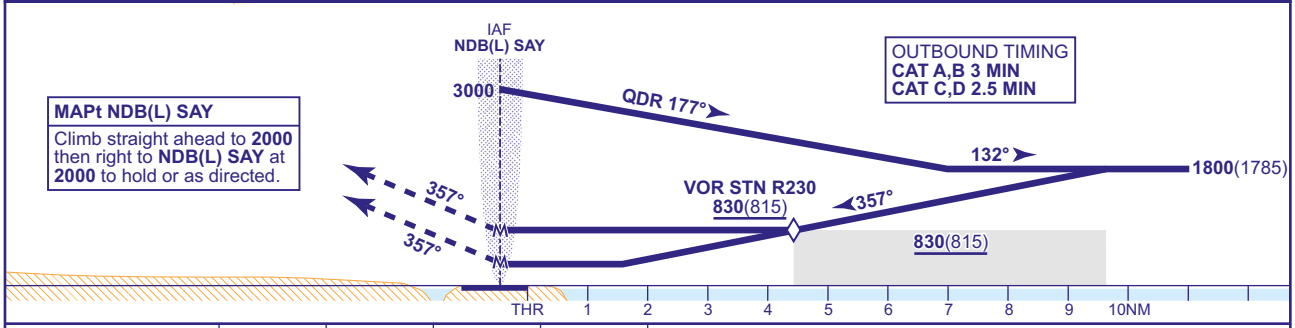


MSA 25NM NDB(L) SAY

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	15
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION	
ATIS	115.100	STORNOWAY INFORMATION	**1233 AMSL** (1218) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**





MAPt NDB(L) SAY
Climb straight ahead to **2000** then right to **NDB(L) SAY** at **2000** to hold or as directed.

OUTBOUND TIMING
CAT A,B 3 MIN
CAT C,D 2.5 MIN

Aircraft Category		A	B	C	D
OCA (OCH)	NO DME	**830**(815)	**830**(815)	**830**(815)	**830**(815)
	WITH STN	**330**(315)	**330**(315)	**330**(315)	**330**(315)
VM(C)OCA (OCH AAL)	Total Area	**850**(824)	**850**(824)	**860**(834)	**1060**(1034)
	East of RWY 18/36	**850**(824)	**850**(824)	**850**(824)	**850**(824)

AIRCRAFT ABLE TO RECEIVE VOR STN
Aircraft able to receive VOR STN may continue to lower MDH after passing VOR STN step-down R230 inbound.

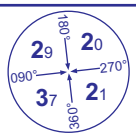
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Direct arrivals are detailed on AD 2-EGPO-8-10.

CHANGE (6/25): VM(C)OCA(OCH AAL) TOTAL AREA CAT A/B, EAST OF RWY 18/36 ALL CAT.

AERO INFO DATE 25 MAR 25 AD 2-EGPO-8-6

INSTRUMENT APPROACH CHART - ICAO

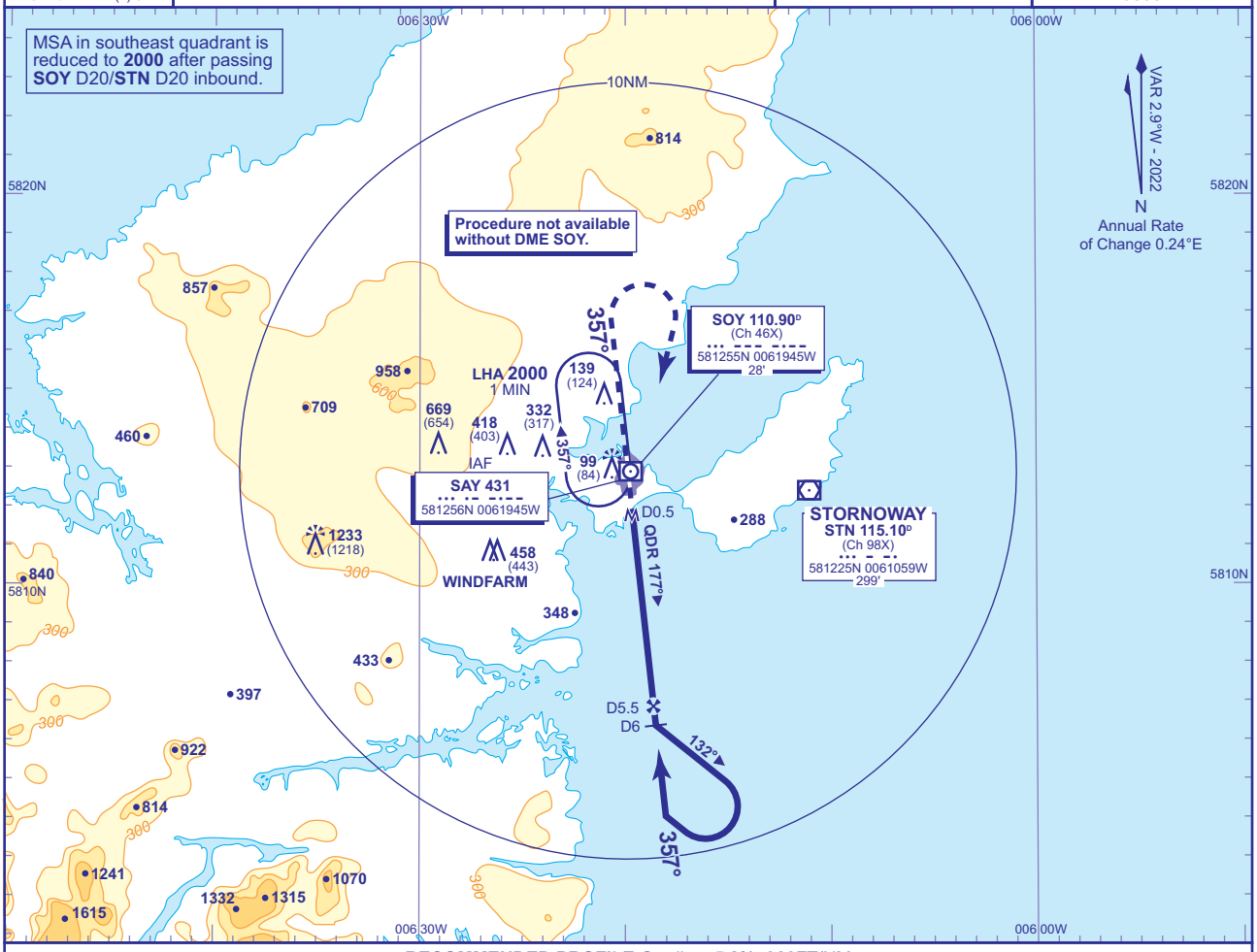
STORNOWAY NDB(L)/DME RWY 36
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) SAY

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	15
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION	
ATIS	115.100	STORNOWAY INFORMATION	1233 AMSL (1218) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

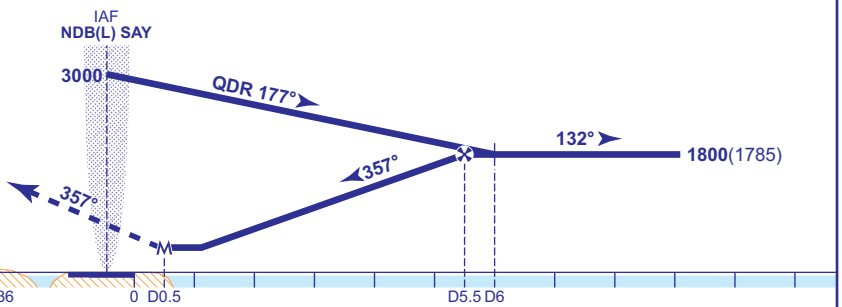
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME SOY	5	4	3	2
ALT(HGT)	**1640**(1625)	**1330**(1315)	**1010**(995)	**700**(685)

MAPt SOY DME 0.5
Climb straight ahead to **2000** then turn right to **NDB(L) SAY** at **2000** to hold or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**400**(385)	**400**(385)	**400**(385)	**400**(385)
VM(C)OCA (OCH AAL)	**Total Area**	**500**(474)	**630**(604)	**860**(834)	**1060**(1034)
	East of RWY 18/36	**500**(474)	**530**(504)	**690**(664)	**770**(744)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	740	630	530	420

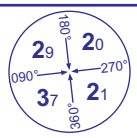
NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Direct arrivals are detailed on AD 2-EGPO-8-10.

CHANGE (8/22): DME SOY CALLSIGN CORRECTED.

AERO INFO DATE 17 MAY 22

INSTRUMENT APPROACH CHART - ICAO

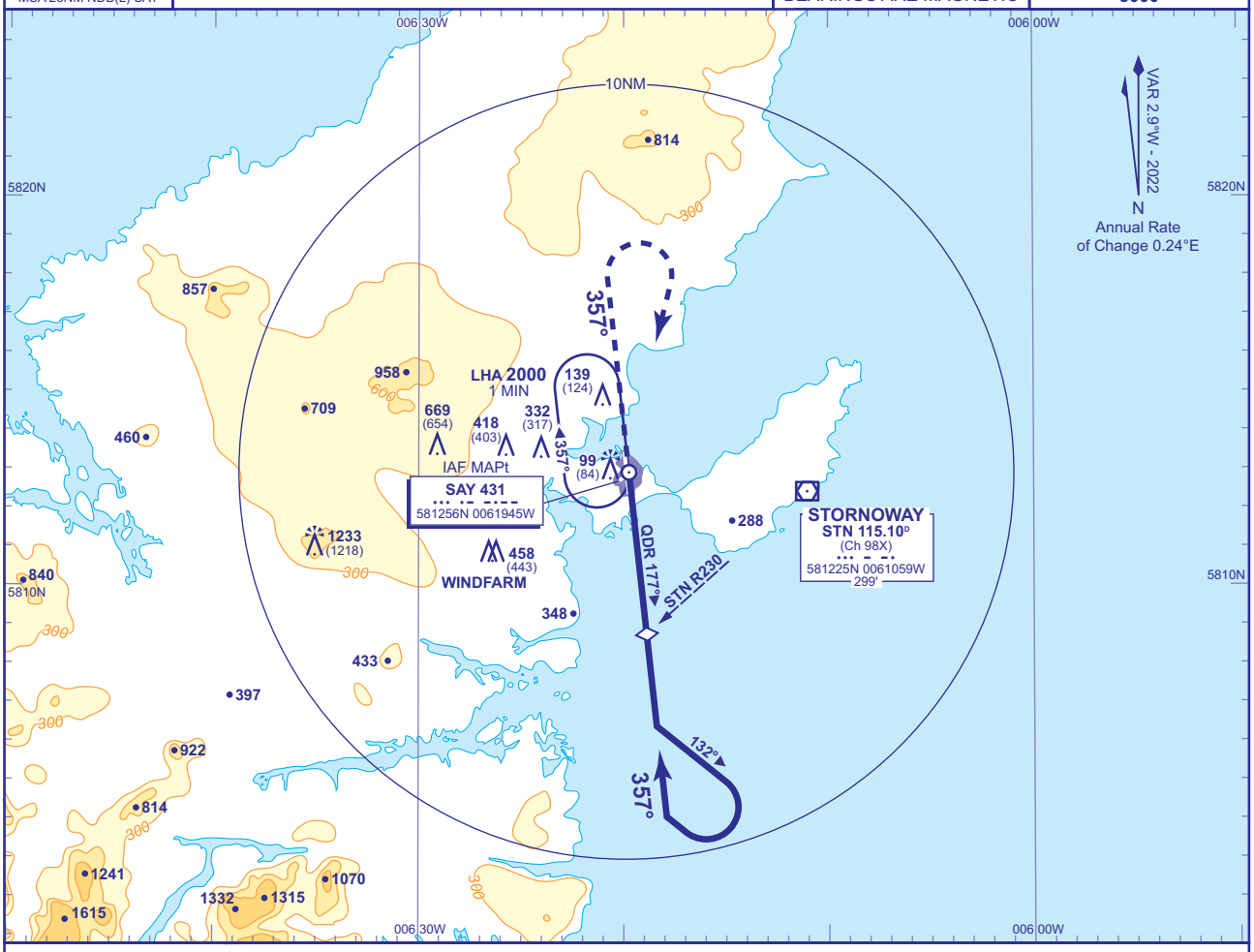
STORNOWAY NDB(L) RWY 36
(ACFT CAT A,B,C,D)

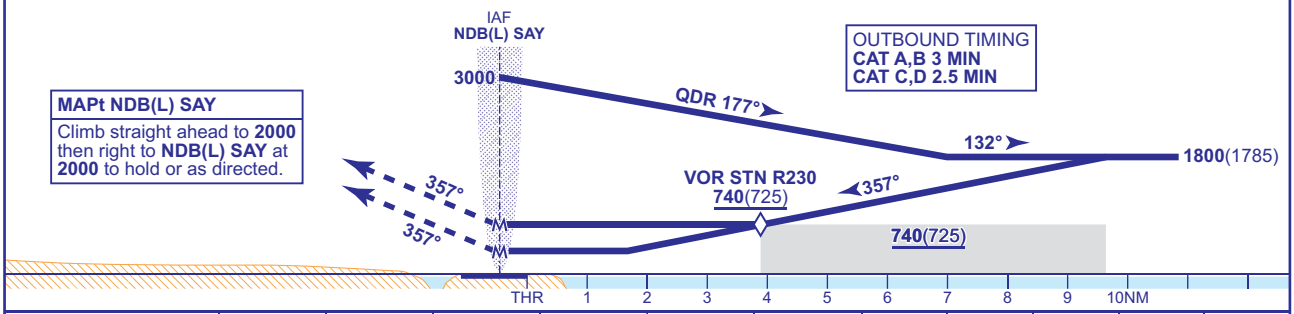


MSA 25NM NDB(L) SAY

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26	
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	15	
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION		
ATIS	115.100	STORNOWAY INFORMATION	1233 AMSL (1218) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **3000**





MAPt NDB(L) SAY
Climb straight ahead to **2000** then right to **NDB(L) SAY** at **2000** to hold or as directed.

OUTBOUND TIMING
CAT A,B 3 MIN
CAT C,D 2.5 MIN

Aircraft Category		A	B	C	D
OCA (OCH)	NO DME	**740**(725)	**740**(725)	**740**(725)	**740**(725)
	WITH STN	**400**(385)	**400**(385)	**400**(385)	**400**(385)
VM(C)OCA (OCH AAL)	Total Area	**760**(734)	**760**(734)	**860**(834)	**1060**(1034)
	East of RWY 18/36	**760**(734)	**760**(734)	**760**(734)	**770**(744)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	750	640	530	430

AIRCRAFT ABLE TO RECEIVE VOR STN
Aircraft able to receive VOR STN may continue to lower MDH after passing VOR STN step-down R230 inbound.

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.
2 Direct arrivals are detailed on AD 2-EGPO-8-10.

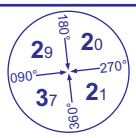
CHANGE (6/25): VM(C)OCA(OCH AAL) TOTAL AREA CAT A/B, EAST OF RWY 18/36 CAT A/B/C.

AERO INFO DATE 25 MAR 25

INSTRUMENT APPROACH CHART - ICAO

STORNOWAY DIRECT ARRIVALS to LOC and NDB(L) RWY 36

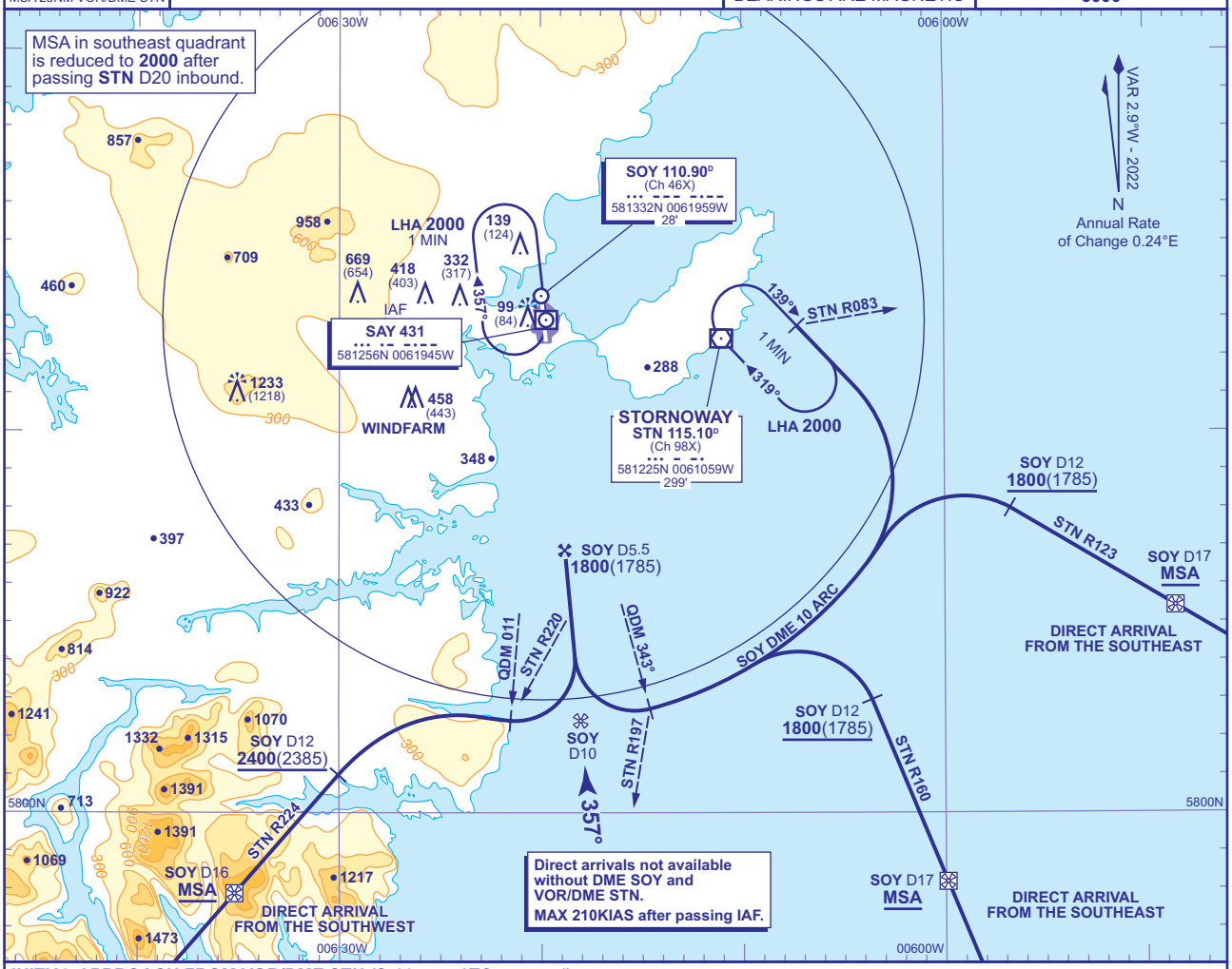
(ACFT CAT A,B,C,D)



MSA 25NM VOR/DME STN

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER	THR ELEVATION	15
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION	
ATIS	115.100	STORNOWAY INFORMATION	1233 AMSL (1218) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



INITIAL APPROACH FROM VOR/DME STN (Subject to ATC approval)
Arrival **not below MSA**. Overhead VOR/DME STN (IAF) at **3000** or as directed (lowest altitude to start procedure from hold is **2000**). Fly outbound in the hold. After passing VOR STN R083, turn right onto SOY D10 arc clockwise descending along the arc to **1800**(1785). From NDB(L) SAY QDM 343° (VOR STN R197) turn right onto LOC/extended FAT. When established continue with appropriate procedure.

DIRECT ARRIVAL FROM SOUTHEAST (Subject to ATC approval)
Arrival on VOR STN R160 (QDM 340°) **not below MSA**. After passing SOY D17 (IAF) descend **not below 1800**. From SOY D12 turn left onto SOY D10 arc clockwise. From NDB(L) SAY QDM 343° (VOR STN R197) turn right onto LOC/extended FAT. When established continue with appropriate procedure.

DIRECT ARRIVAL FROM SOUTHEAST (Subject to ATC approval)
Arrival on VOR STN R123 (QDM 303°) **not below MSA**. After passing SOY D17 (IAF) descend **not below 1800**. From SOY D12 turn left onto SOY D10 arc clockwise. From NDB(L) SAY QDM 343° (VOR STN R197) turn right onto LOC/extended FAT. When established continue with appropriate procedure.

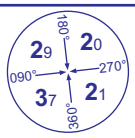
DIRECT ARRIVAL FROM SOUTHWEST (Subject to ATC approval)
Arrival on VOR STN R224 (QDM 044°) **not below MSA**. After passing SOY D16 (IAF) descend **not below 2400**. From SOY D12 turn right onto SOY D10 arc anticlockwise and descend to **1800**. From NDB(L) SAY QDM 011° (VOR STN R220) turn left onto LOC/extended FAT. When established continue with appropriate procedure.

CHANGE (5/23): VOR STN RECALIBRATION.

AERO INFO DATE 24 FEB 23

INSTRUMENT APPROACH CHART - ICAO

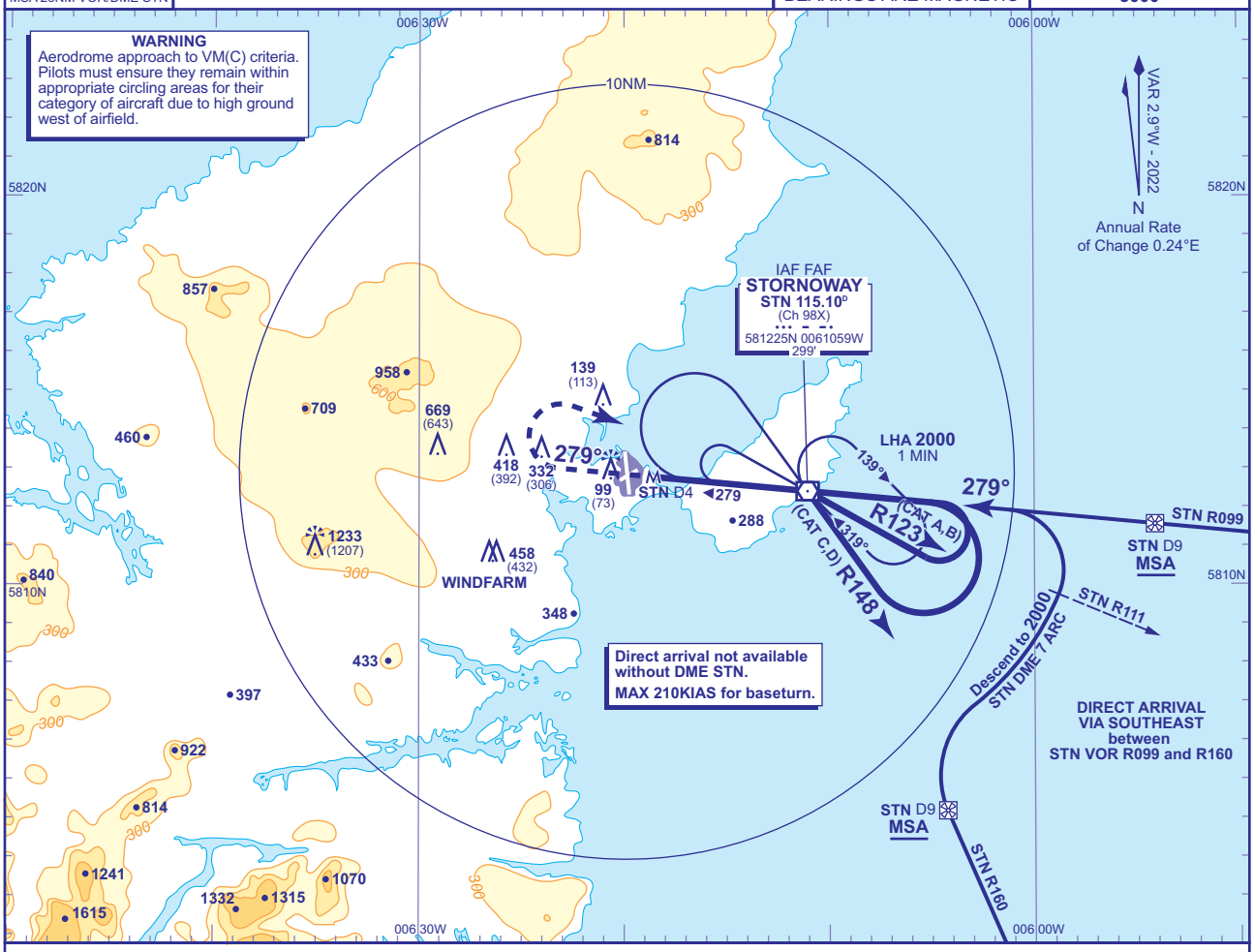
STORNOWAY VOR/DME TO AERODROME
(ACFT CAT A,B,C,D)

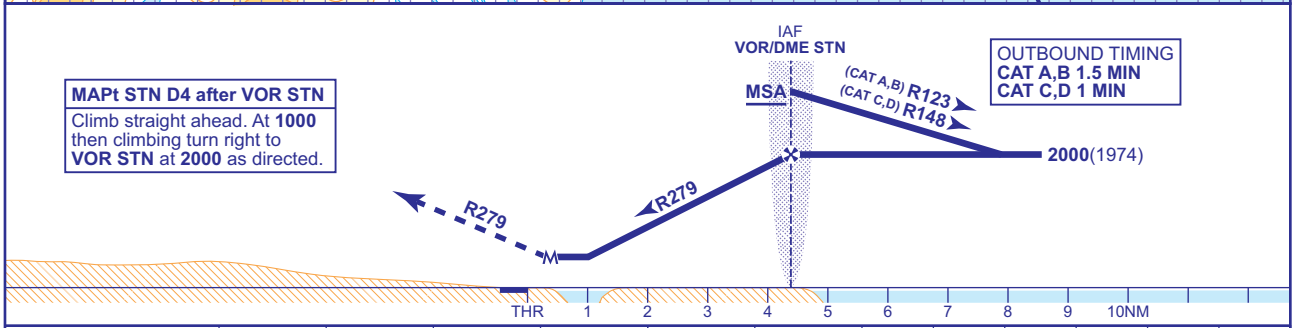


MSA 25NM VOR/DME STN

APP	119.480	STORNOWAY APPROACH	AD ELEVATION	26
TWR	119.480	STORNOWAY TOWER		
AFIS	119.480	STORNOWAY INFORMATION	OBSTACLE ELEVATION	
ATIS	115.100	STORNOWAY INFORMATION	1233 AMSL (1207) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**





Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	500(474)	630(604)	860(834)	1060(1034)
VM(C)OCA (OCH AAL)	Total Area	500(474)	630(604)	860(834)	1060(1034)
	East of RWY 18/36	500(474)	630(604)	860(834)	1060(1034)

VOR STN to MAPT	G/S KT	160	140	120	100	80	60
	MIN:SEC	1:30	1:43	2:00	2:24	3:00	4:00

ENTRY TO BASETURN PROCEDURE AFTER HOLDING
If required, the baseturn procedure may be entered after holding by flying a teardrop manoeuvre from overhead the holding facility after flying inbound in the hold as follows: Fly outbound on track 279° (CAT A,B,C,D) for 1 MIN then turn right to return to the overhead to enter the baseturn procedure. Lowest altitude to commence the procedure from the hold is **2000**.

AIRCRAFT UNABLE TO RECEIVE DME STN
Direct arrivals are unavailable to aircraft unable to receive DME STN, pilots are to join the hold and continue as for the main procedure. The missed approach point is calculated using the designated timings from overhead FAF VOR STN.

NOTE Direct arrivals only available with ATC clearance.

CHANGE (6/25): VM(C)OCA(OCH AAL) EAST OF RWY 18/36 CAT B/C/D.

AERO INFO DATE 25 MAR 25 AD 2-EGPO-8-10

EGER — STRONSAY

EGER AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGER — STRONSAY

EGER AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 590919N Long: 0023829W Mid point of Runway 02/20
2	Direction and distance from city	15 NM NE by N of Kirkwall Airport.
3	Elevation / Reference temperature / Mean Low Temperature	39 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.33°W (2027) / 0.22°E
6	AD Administration Address Telephone Telefax E-mail address	ORKNEY ISLANDS COUNCIL. Council Offices, Kirkwall, Orkney Islands, KW15 1NY, Scotland. 01856-873535 01856-876094 developmentandinfrastructure@orkney.gov.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGER AD 2.3 OPERATIONAL HOURS

1	AD Administration	Daylight hours only, subject to PPR .
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR, a valid indemnity is required. Full details of landing fees and rules for airfield users can be found on the Orkney Islands Council website: http://www.orkney.gov.uk/Service-Directory/T/airfields.htm

EGER AD 2.4 HANDLING SERVICES AND FACILITIES

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EGER AD 2.5 PASSENGER FACILITIES

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EGER AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGER AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations: No snow clearing facilities available. During winter months pilots are advised to contact the Airfield Superintendent for the latest runway conditions. Tel: 01856-873535.

EGER AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGER AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGER AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
20/APPROACH 02/TAKE-OFF	Building Ridge Line	590929.23N 0023816.90W	45 FT		No	
20/APPROACH 02/TAKE-OFF	Cottage Chimney	590927.52N 0023820.52W	35 FT		No	
28/APPROACH 10/TAKE-OFF	Hydro Pole	590918.27N 0023806.48W	41 FT		No	
28/APPROACH 10/TAKE-OFF	Hydro Pole	590911.14N 0023759.89W	48 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590852.86N 0023858.28W	67 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590852.55N 0023859.98W	72 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590852.35N 0023853.81W	68 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590851.12N 0023843.16W	88 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590850.60N 0023857.31W	79 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590850.10N 0023834.35W	111 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590849.03N 0023825.15W	149 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590848.53N 0023854.53W	83 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590848.31N 0023818.74W	161 FT		No	
02/APPROACH 20/TAKE-OFF	Hydro Pole	590846.02N 0023851.20W	85 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Hydro Pole	590930.60N 0023810.00W	53 FT		No	
	Building Chimney	590930.17N 0023811.28W	63 FT		No	
	Hydro Pole	590927.86N 0023809.22W	51 FT		No	
	Hydro Pole	590925.04N 0023808.41W	50 FT		No	
	Hydro Pole	590922.22N 0023807.58W	37 FT		No	

EGER AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGER AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
02	019.86°	515 x 18 M	RWY surface: Graded Hardcore	590911.15N 0023835.27W	THR 41.9 FT	
20	199.86°	515 x 18 M	RWY surface: Graded Hardcore	590925.20N 0023825.39W	THR 16.2 FT	
10	096.22°	331 x 30 M	RWY surface: Grass	590919.34N 0023841.34W	THR 13.5 FT	
28	276.22°	331 x 30 M	RWY surface: Grass	590918.18N 0023820.61W	THR 40.4 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 02 While arriving or departing Runway 02 for approximately 300 M, the 20 threshold is not visible. Starter extension of 13 M.
						RWY 20 While arriving or departing Runway 20 for approximately 200 M, the 02 threshold is not visible. Starter extension of 30 M.
						RWY 10
						RWY 28

EGER AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
02	476 M	476 M	476 M	463 M	TORA, TODA and ASDA include a 13 M starter extension.
20	493 M	493 M	493 M	463 M	TORA, TODA and ASDA include a 30 M starter extension.
10	331 M	331 M	331 M	331 M	
28	331 M	331 M	331 M	331 M	

EGER AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
20		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
10		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
28		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		

EGER AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 590914.41N 0023823.56W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGER AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF 1: 590914.33N 0023826.70W
2	TLOF and/or FATO elevation	TLOF 1: 47.5 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	

7	RMK	

EGER AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGER AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

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EGER AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGER AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All GA aircraft must park only on the clearly designated grass GA APRON. GA aircraft must not park on the main tarmac apron.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Visiting pilots should note that during periods of prolonged rainfall the grass runway can become very soft especially during the winter months.
b) Runway 02/20: Graded hardcore runway is generally unsuitable for light aircraft with low ground/propeller clearance due to unstabilised surface and as a result it would be advisable to carry out any power checks on the tarmac apron before departure.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGER AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGER AD 2.22 FLIGHT PROCEDURES

a) RTF contact with Kirkwall Approach is recommended.

EGER AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGER AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGER-2-1

EGER AD VISUAL SEGMENT SURFACE (VSS) PENETRATION

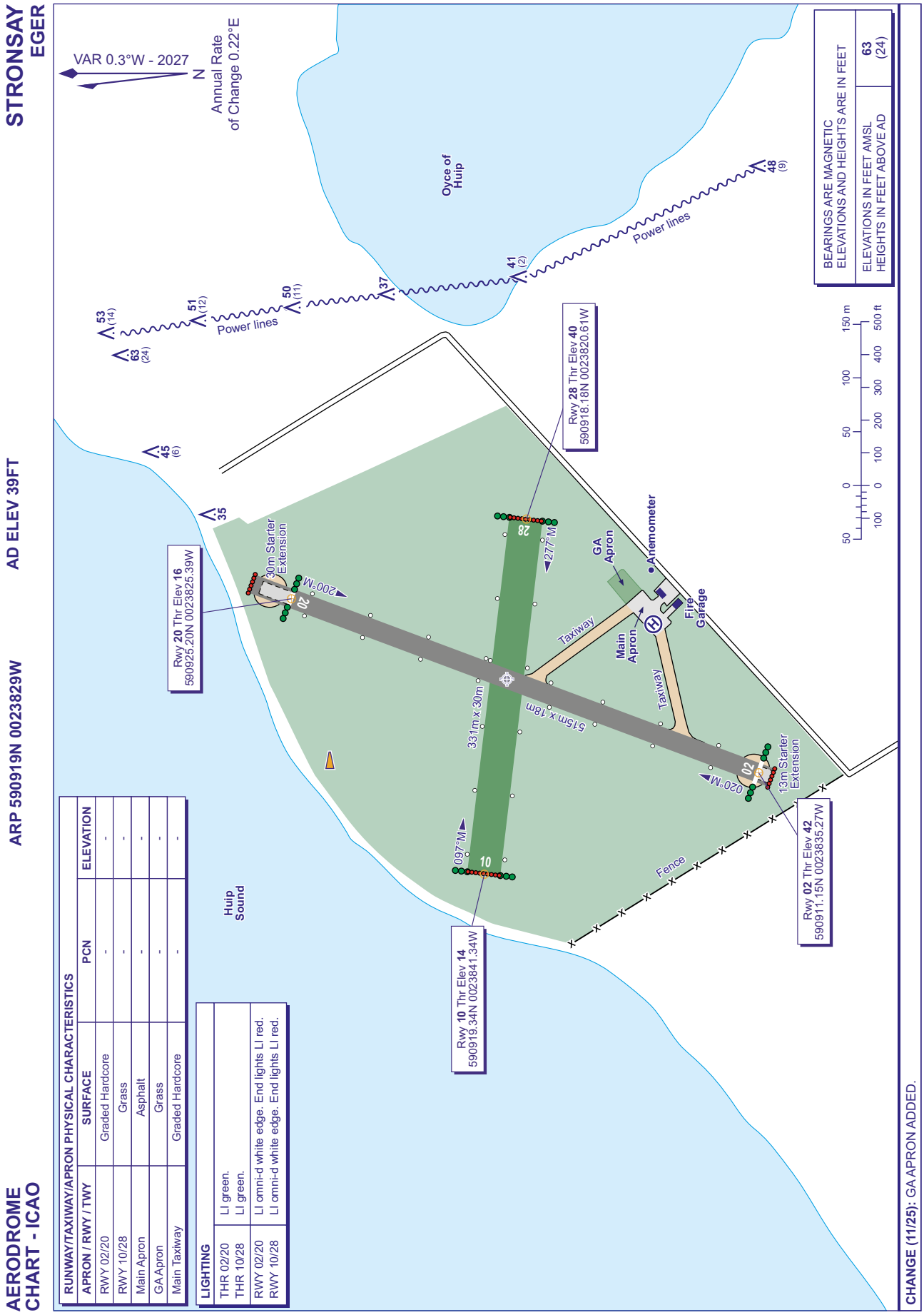
Not applicable

STRONSAY EGER

AERODROME CHART - ICAO

ARP 590919N 0023829W

AD ELEV 39FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	PCN	ELEVATION
RWY 02/20	Graded Hardcore	-	-
RWY 10/28	Grass	-	-
Main Apron	Asphalt	-	-
GA Apron	Grass	-	-
Main Taxiway	Graded Hardcore	-	-

LIGHTING	
THR 02/20	LI green.
THR 10/28	LI green.
RWY 02/20	LI omni-d white edge. End lights LI red.
RWY 10/28	LI omni-d white edge. End lights LI red.

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EGPB — SUMBURGH

EGPB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPB — SUMBURGH

EGPB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 595253N Long: 0011738W Mid-point of 09/27.
2	Direction and distance from city	17 NM S of Lerwick.
3	Elevation / Reference temperature / Mean Low Temperature	21 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	161 FT
5	Magnetic Variation / Annual Change	0.87°W (2022) / 0.24°E
6	AD Administration	HIGHLANDS AND ISLANDS AIRPORTS LTD.
	Address	Sumburgh Airport, Virkie Shetland, ZE3 9JP.
	Telephone	01950-461000 (HIAL) 01950-461008 (ATC)
	Telefax	01950-460218 (HIAL) 01950-460718 (ATC)
	E-mail address	sumbatc@hial.co.uk
	Web address	www.hial.co.uk/sumburgh-airport/
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPB AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0730-2000 (0630-1900); Sat 0745-1615 (0645-1515); Sun 1130-2000 (1030-1900).
2	Customs and immigration	By arrangement with ATC or by request from Loganair.
3	Health and sanitation	On request.
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	As AD hours.
7	ATS	Mon-Fri 0715-2000 (0615-1900); Sat 0730-1615 (0630-1515); Sun 1115-2000 (1015-1900); and by arrangement.
8	Fuelling	Mon-Fri 0730-2000 (0630-1900); Sat 0745-1615 (0645-1515); Sun 1130-2000 (1030-1900). Fuel supplied by North Air; see AD 2.4 remarks.
9	Handling	By arrangement. See AD 2.4 Remarks.
10	Security	Mon-Fri 0630-2015 (0530-1915); Sat 0630-1615 (0530-1515); Sun 1015-2015 (0915-1915).
11	De-icing	By arrangement with Loganair.
12	Remarks	Request for extension of hours should be made to Sumburgh ATC 01950-461008.

EGPB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Limited.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	
4	De-icing facilities	Available through Loganair.
5	Hangar space for visiting aircraft	Limited and only by arrangement with HIAL.
6	Repair facilities for visiting aircraft	

7	Remarks	Pilots not using a resident handling agent must ensure that all relevant airport documentation is completed upon initial arrival. Such documentation may be obtained from security or HIAL administration staff. Fuel supplied by North Air. Tel: 01950-460367; E-Mail: LSIOPS@north-air.co.uk. Hook-up fee and minimum fuel charge on cash sales. No credit card facilities available. Payment by Air BP Card, Fuel Release or cash only. Contact North Air for further information.

EGPB AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in Sumburgh and Lerwick.
2	Restaurants	Buffet, bar.
3	Transportation	Buses, Taxis and Car Hire.
4	Medical facilities	Limited first aid.
5	Bank and Post Office	Bank - Lerwick. Post Office - Mainland's Shop, Boddam.
6	Tourist Office	Lerwick.
7	Remarks	

EGPB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A5 RFF Category A6 available under remission. 24 hours notice period required.
2	Rescue equipment	Water rescue facilities are available for Runway 09/27 and Helicopter Runway 06/24 during published opening hours. Special and on call openings subject to serviceability of equipment and times when the weather conditions and sea state are conducive to such rescue operations.
3	Capability for removal of disabled aircraft	Nil at Airport. MTWA: 30,000 kg using external sources available on the main island.
4	Remarks	

EGPB AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical and chemical de-icing. Surfaces de-iced/anti-iced with KFOR/ NAFO.
2	Clearance priorities	Runways, taxiways, Aprons.
3	Remarks	Latest information from: ATC 01950-461008.

EGPB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	TERMINAL EAST Surface: Concrete PCN 29/R/B/W/T TERMINAL WEST Surface: Concrete PCN 16/R/B/W/T
2	Taxiway width, surface and strength	Taxiway CHARLIE: 18 M Surface: Asphalt PCN 20/F/B/X/T Taxiway EAST: 15 M Surface: Concrete PCN 29/R/B/W/T Taxiway NORTH: 18 M Surface: Asphalt PCN 20/F/B/X/T Taxiway SOUTH: 15 M Surface: Concrete and asphalt PCN 31/F/B/X/T

3	Altimeter checkpoint location and elevation	Apron 19 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Pilots of fixed wing aircraft can anticipate to be marshalled onto stand on arrival. Helicopters self-park on numbered spots/stands; marshalling available on request. Spots 5 and 6 not normally available for shutdown.
2	Runway and taxiway markings and lighting	Runway light(s): Blue edge lights on Runway 15/33 from Hold Kilo to the edge of Runway 09/27. Taxiway light(s): Holding points designated by retro-reflective illuminated signs and red stop lights (except Holds F, W and Z which is unlit). Yellow centre-line paint marking. Green centre-line lighting to stop bars. Blue edge lighting between stop bars and runway edge, and on Runway 15/33 from holding points Kilo and Charlie to the edge of Runway 09/27.
3	Stop bars and runway guard lights (if any)	Holding points are designated by retro-reflective signs, illuminated in hours of darkness. Red stop bars at holding points A, C, E, G, J, K, V. Caution: H06/24 holding points F, W, and Z do not have lit stop bars.
4	Other runway protection measures	
5	Remarks	WDI RWY 09 (LGTD): 595254.95N 0011812.33W; WDI RWY 27 (LGTD): 595251.18N 0011706.70W; WDI RWY 15: 595257.17N 0011757.64W; WDI RWY 33: 595218.86N 0011658.44W; WDI RWY 06/24: 595234.64N 0011704.55W.

EGPB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPB3144) 15/APPROACH 33/ TAKE-OFF	BUILDING	595526.41N 0012120.32W	373 FT	13 FT	No	
(EGPB3143) 33/TAKE-OFF	BUILDING	595526.41N 0012120.20W	372 FT	13 FT	No	
(EGPB4946) 33/TAKE-OFF	BLDG	595525.45N 0012112.61W	357 FT	8 FT	No	
(EGPB3138) 15/APPROACH 33/ TAKE-OFF	BUILDING	595431.45N 0012033.66W	258 FT	9 FT	No	
(EGPB5383) 15/APPROACH 33/ TAKE-OFF	BLDG CHIMNEY	595334.96N 0011840.63W	180 FT	18 FT	No	
(EGPB5374) 15/APPROACH 33/ TAKE-OFF	BLDG CHIMNEY	595333.49N 0011843.66W	163 FT	19 FT	No	
(EGPB4852) 15/APPROACH 33/ TAKE-OFF	BLDG	595320.79N 0011826.37W	131 FT	27 FT	No	
(EGPB4797) 15/APPROACH 33/ TAKE-OFF	BLDG CHIMNEY	595310.37N 0011824.82W	113 FT	25 FT	No	
(EGPB4802) 15/APPROACH 33/ TAKE-OFF	BLDG CHIMNEY	595307.55N 0011818.72W	82 FT	16 FT	No	
(EGPB4771) 15/APPROACH 33/ TAKE-OFF	BLDG	595303.37N 0011816.20W	68 FT	20 FT	No	
(EGPB5608) 15/APPROACH 33/ TAKE-OFF	MOBILE OBSTACLE	595256.74N 0011810.87W	34 FT	16 FT	No	
(EGPB5565) 15/TAKE-OFF	MOBILE OBSTACLE	595216.32N 0011657.93W	33 FT	16 FT	No	
(EGPB5564) 15/TAKE-OFF	MOBILE OBSTACLE	595216.31N 0011658.13W	33 FT	16 FT	No	
(EGPB5560) 33/APPROACH	MOBILE OBSTACLE	595214.52N 0011658.96W	40 FT	16 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPB5561) 33/APPROACH	MOBILE OBSTACLE	595214.48N 0011658.79W	40 FT	16 FT	No	
(EGPB5546) 33/APPROACH	MOBILE OBSTACLE	595214.43N 0011709.75W	30 FT	16 FT	No	
(EGPB5558) 33/APPROACH	MOBILE OBSTACLE	595213.71N 0011659.70W	41 FT	16 FT	No	
(EGPB5559) 33/APPROACH	MOBILE OBSTACLE	595213.67N 0011659.53W	42 FT	16 FT	No	
(EGPB5556) 33/APPROACH	MOBILE OBSTACLE	595212.98N 0011700.75W	42 FT	16 FT	No	
(EGPB5557) 33/APPROACH	MOBILE OBSTACLE	595212.90N 0011700.61W	43 FT	16 FT	No	
(EGPB5294) 33/APPROACH 15/ TAKE-OFF	WALL	595212.80N 0011659.68W	37 FT	3 FT	No	
(EGPB5554) 33/APPROACH	MOBILE OBSTACLE	595212.62N 0011702.44W	42 FT	16 FT	No	
(EGPB3389) 33/APPROACH 15/ TAKE-OFF	MOBILE OBSTACLE	595207.07N 0011644.97W	109 FT	16 FT	No	
(EGPB5189) 15/TAKE-OFF	BLDG CHIMNEY	595203.28N 0011654.36W	101 FT	34 FT	No	
(EGPB5191) 33/APPROACH 15/ TAKE-OFF	BLDG AERIAL	595202.94N 0011654.70W	102 FT	37 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPB4684)	MAST	595710.39N 0011827.59W	1077 FT	229 FT	No	
(EGPB3156)	TELEGRAPH POLE	595446.66N 0011814.95W	239 FT	24 FT	No	
(EGPB5622)	RADAR	595421.07N 0012257.09W	964 FT	37 FT	No	
(EGPB5002)	MAST	595420.06N 0012256.76W	982 FT	53 FT	No	
(EGPB3168)	TELEGRAPH POLE	595349.47N 0011813.78W	292 FT	26 FT	No	
(EGPB5009)	UTILITY POLE	595341.95N 0011827.57W	298 FT	24 FT	No	
(EGPB5384)	POLE	595341.52N 0011830.40W	303 FT	13 FT	Yes Red	
(EGPB5066)	UTILITY POLE	595323.52N 0011710.47W	198 FT	27 FT	No	
(EGPB5149)	BLDG OBS LT	595243.53N 0011800.82W	78 FT	52 FT	Yes Red	
(EGPB5328)	LIGHTNING CNDR	595204.15N 0011623.43W	383 FT	51 FT	Yes Red	
(EGPB5346)	LIGHTHOUSE AERIAL	595114.69N 0011629.62W	333 FT	57 FT	No	
(EGPB3215)	AERIAL	595114.11N 0011630.01W	346 FT	67 FT	No	

EGPB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.

4	Trend forecast Interval of issuance	TREND 30 minutes.
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. English.
7	Charts and other information available for briefing or consultation	Available on request from ATC.
8	Supplementary equipment available for providing information	Automated recording telephone 01950-461037.
9	ATS units provided with information	SUMBURGH
10	Additional information (limitation of service, etc.)	Outside aerodrome hours unverified automatic observation via ATIS is available on 01950-461037.

EGPB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
09	083.55°	1498 x 44 M	RWY surface: Asphalt, Grooved PCN 20/F/B/W/T	595250.98N 0011819.03W 161.0 FT	THR 20.5 FT	
27	263.57°	1498 x 44 M	RWY surface: Asphalt, Grooved PCN 20/F/B/W/T	595255.71N 0011655.59W 160.9 FT	THR 20.6 FT TDZ 20.6 FT	
15	143.41°	1424 x 43 M	RWY surface: Asphalt, Grooved PCN 31/F/B/X/T	595249.88N 0011754.57W 161.0 FT	THR 7.1 FT	
33	323.42°	1424 x 43 M	RWY surface: Asphalt, Grooved PCN 31/F/B/X/T	595222.60N 0011714.28W 161.0 FT	THR 8.2 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		1618 x 280 M	90 x - M -			RWY 09 Landing threshold displaced by 104 M.
		1618 x 280 M	90 x - M -			RWY 27 Landing threshold displaced by 89 M.
		1544 x 150 M				RWY 15 Landing threshold displaced by 184 M. Terrain infringes the runway strip to the south, south east by 3.5 M at 135 M to 142 M from centre-line.
		1544 x 150 M				RWY 33 Landing threshold displaced by 189 M. Terrain infringes the runway strip to the south, south east by 3.5 M at 135 M to 142 M from centre-line.

EGPB AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
15	1424 M	1424 M	1424 M	1240 M	
33	1424 M	1424 M	1424 M	1235 M	

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1319 M	1319 M	1319 M	1245 M	
27	1319 M	1319 M	1319 M	1260 M	
06		H - 544 M		H - 544 M	
24		H - 544 M		H - 544 M	

EGPB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	One flush inset crossbar plus four double flush inset lamps. 110 M Light intensity high	Green Light intensity high Green wingbars	PAPI Left/3° 20 FT 155 M			HI elevated bi-directional and coded LI omni-directional	Red		
27	One flush inset crossbar plus four double flush inset lamps. 90 M Light intensity high	Light intensity high Elevated Green wingbars	PAPI Left/3° 56 FT 411 M			HI elevated bi-directional and coded LI omni-directional	Red		
15		Light intensity high Elevated Green wingbars	APAPI Left/4° 46 FT 210 M			HI elevated bi-directional and coded LI omni-directional	Red		
33		Light intensity high Elevated Green wingbars				HI elevated bi-directional and coded LI omni-directional	Red		

EGPB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 595254.28N 0011807.91W (LGTD) - 595232.66N 0011735.66W (LGTD)
3	TWY edge and centre line lighting	CL: Green centre-line lighting to stop bars. EDGE: Blue edge lighting between stop bars and runway edge.
4	Secondary power supply/switch-over time	Yes. 10 seconds.
5	Remarks	Obstacle lights.

EGPB AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF H24: 595239.62N 0011657.64W
2	TLOF and/or FATO elevation	TLOF H24: 19.6 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	TLOF surface: Asphalt PCN 31/F/B/X/T FATO 06/24: 544 M x 44 M FATO surface: Asphalt PCN 31/F/B/X/T

4	True BRG of FATO	FATO 06/24: DIR 06: 053.44° FATO 06/24: DIR 24: 233.45°
5	Declared distance available	FATO 06/24: DIR 06: LDAH - LDA for Helicopters 544 M FATO 06/24: DIR 06: RTODAH - Rejected TODA for Helicopters 544 M FATO 06/24: DIR 06: TODAH - Take-Off Distance Available for Helicopters 544 M FATO 06/24: DIR 24: LDAH - LDA for Helicopters 544 M FATO 06/24: DIR 24: RTODAH - Rejected TODA for Helicopters 544 M FATO 06/24: DIR 24: TODAH - Take-Off Distance Available for Helicopters 544 M
6	APP and FATO lighting	
7	RMK	Daylight use only.

EGPB AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SUMBURGH CTR 594309N 0005423W - 593839N 0013034W - 594620N 0014725W - 600144N 0013856W - 600406N 0005747W thence clockwise by the arc of a circle radius 15 NM centred on 595244N 0011712W to 594309N 0005423W	Upper limit: FL100 Lower limit: SFC	D	SUMBURGH RADAR English	6000 FT		CTR/CTA/ATZ hours coincident with Tower hours, but not by arrangement. Radar service available 0630-2200 (0530-2100).
SUMBURGH ATZ A circle, 2 NM radius, centred at 595253N 0011738W on longest notified runway (09/27)	Upper limit: 2000 FT AGL Lower limit: SFC	D G	SUMBURGH RADAR English	6000 FT		CTR/CTA/ATZ hours coincident with Tower hours, but not by arrangement. Radar service available 0630-2200 (0530-2100).

EGPB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	SUMBURGH TOWER	118.255 DOC 30 NM/ 10,000 FT.			Mon-Fri 0715-2000 (0615-1900); Sat 0730-1615 (0630-1515); Sun 1115-2000 (1015-1900); and by arrangement.	
RADAR	SUMBURGH RADAR	123.155 Standby frequency not continuously monitored.			0630-2200 (0530-2100).	This service is provided by NATS Aberdeen.
		131.300 Radar services for both Approach Radar and offshore sectors.			0630-2200 (0530-2100).	
AFIS	SUMBURGH INFORMATION	118.255			By arrangement outside hours of ATC. Normally only available for SAR, ambulance flights and aircraft in emergency.	
ATIS	SUMBURGH INFORMATION	125.855			Mon-Fri 0715-2000 (0615-1915); Sat 0730-1615 (0630-1515); Sun 1115-2000 (1015-1900); and by arrangement.	

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	SUMBURGH FIRE CHIEF	121.600 Non-ATS Frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC OTHER:NOCAT 0.18°E (2027)	SUB	108.500 MHz	HO	595257.14N 0011721.92W		(RWY 09) Ignore any glidepath indications observed. The Localizer is offset 2.2° south of the extended RCL and intercepts at 1400 M from THR 09. Localizer only.
ILS/LOC I 0.18°E (2027)	ISG	108.500 MHz	HO	595248.42N 0011812.47W		(RWY 27) The Localizer is offset 2.6° north of the extended RCL and intercepts at 723 M from THR 27. Pilots may not receive full fly-up indications when below glidepath and right of centre-line.
ILS/GP	ISG	329.900 MHz	HO	595256.79N 0011721.12W		3° ILS Ref Datum Hgt 54 FT.
VOR/DME 0.18°E (2027) 0° (2023)	SUM	120Y 117.350 MHz	H24	595243.42N 0011711.51W	80 FT	VOR/DME DOC: 200 NM/50,000 FT. Due to terrain, coverage at low level is reduced in Sectors R140-160, R285-305 and R345-005.
NDB (L) 0.18°E (2027)	SBH	351.000 kHz	H24	595256.56N 0011741.40W		On AD. Range 25 NM.
ILS/DME	ISG	22X 108.500 MHz	HO	595256.72N 0011738.05W	25 FT	(RWY 27) On AD. DME freq paired with ILS I-SG and SUB. Zero range indicated at THR of Runway 09 and 27.
ILS/DME	SUB	22X 108.500 MHz	HO	595256.72N 0011738.05W	25 FT	(RWY 09) On AD. DME freq paired with ILS I-SG and SUB. Zero range indicated at THR of Runway 09 and 27.

EGPB AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) All aircraft are required to request start up from ATC.
b) Pilots are reminded that all flights wishing to depart Sumburgh must, in accordance with the requirements of Class D airspace, notify ATC. This may be in the form of a filed flight plan or contact with Sumburgh ATS via landline prior to departure.

2 GROUND MOVEMENT

a) The centre-line of the northern taxiway is diverted to the south side of the 46 M wide pavement. The edge of the usable taxiway (width 18 M) is marked by blue edge lights and blue reflective markers. Green reflective studs mark the centre-line. Pilots are reminded to adhere to the marked centre-line. A separate vehicle route is marked on the north side of part of the northern taxiway.
b) No ground signals except light signals.
c) Aircraft Parking

   i. Sumburgh operates a parking policy which considers: customs requirements, duration of stay and type of flight. Fixed wing aircraft will be marshalled and may be required to reposition due to operational requirements.

ii. Helicopters will be allocated spots by ATC. Helicopters that require to shutdown should inform Sumburgh Tower at the earliest opportunity, they may be required to reposition to a remote part of the apron.

d) Use of Sumburgh aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.
e) Full ATC clearance is available from EOBT - 15 minutes. Departing aircraft are required to state stand/spot number on initial contact with Sumburgh Tower.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) During strong wind conditions turbulence may be expected on approach to, or climb out from, any runway.
b) Bird colonies are active throughout the year, particularly during the nesting season. Concentrations of birds may be encountered in the vicinity of cliffs and beaches and over the sea.
c) A coastguard and support helicopter operates from Sumburgh and will be given appropriate priority over other traffic when operating on search and rescue duties. These operations may take place throughout the 24 hour period using the call sign 'Rescue'.
d) Unlit mast erected on Scousburgh Hill, 5 NM north of the aerodrome approximate height 220 FT AGL, 1085 FT AMSL.
e) Pilots will observe that a main road crosses the Runway 09 undershoot immediately before the painted threshold. A barrier system closes the public road. These barriers must be closed before any fixed wing aircraft can land or depart.

5 HELICOPTER OPERATIONS

a) Helicopters are treated as fixed-wing traffic and should normally ground taxi, unless skid equipped between the runways and parking areas. In adverse weather conditions and during snow clearing operations, air taxiing may be permitted by ATC. Only one helicopter at any one time may air taxi on any one apron. Pilots may request an air taxi if required.
b) Rotors running refuelling of helicopters with passengers on board is only permitted during exceptionally severe wind conditions, and with the permission of ATC. Rotors-running refuelling is only permitted on helicopter spots 4, 5, 6, 7, 8. Spot 4 may only be used by S92s for rotors-running refuelling in exceptional circumstances.

6 USE OF RUNWAYS

a) With the exception of helicopters, night landings are not permitted on Runways 15 and 33 except in an emergency. Night take-offs from Runways 15 and 33 are restricted to operators with procedures accepted by the Civil Aviation Authority.
b) The helicopter Runway 06/24 is not to be used by fixed-wing aircraft.
c) More than one runway may be lighted, and in use, at any one time.
d) Except for locally based SAR helicopters, out of hours indemnity is not permitted.
e) The thresholds of Runways 09 and 27 are positioned 135 M and 120 M respectively from concrete sea-defenses and the open sea.
f) RVR Conditions

i. Runway 09/27. Except where an AOC holder has a less restrictive State authorised take-off minima, departures in RVR conditions of less than 400 M are not permitted.
ii. Runway 15/33. Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 400 M or less are not permitted.
iii. Helicopter Runway 06/24. Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 800 M or less are not permitted.

g) Pilots will observe that a main road crosses the Runway 09 undershoot immediately before the painted threshold. The road is closed by staffed barriers prior to any movement requiring the closure of the road.

7 TRAINING

Not applicable

EGPB AD 2.21 NOISE ABATEMENT PROCEDURES

a) Helicopters requiring to hover for long periods for test purposes should be directed to a location where they will cause least disturbance to residential areas.
b) Military Practice Diversions

i. Practice diversion approaches by high energy jet aircraft should, whenever possible, be made to Runway 09/27.
ii. Exceptionally, when traffic conditions prevent an approach to Runway 09/27, an approach to Runway 33 may be authorised. When aircraft are carrying out a missed approach from Runway 33 or overflying the aerodrome they are given specific instructions to prevent them from overflying the village of Toab.
iii. The village of Toab is particularly vulnerable to noise from aircraft and approaches to Runway 15 by high energy jet aircraft are not normally permitted.

EGPB AD 2.22 FLIGHT PROCEDURES

1 RADIO COMMUNICATIONS FAILURE PROCEDURE

a) In the event of complete radio communication failure in an aircraft, the pilot will adopt the appropriate procedure notified at ENR 1.1 General Rules, section 3.4 Radiotelephony, Radio Failure and Loss of Communication Procedures. The route to be used when leaving the airspace in accordance with these procedures is as follows:

b) In the event of a communications failure ATS will issue instructions to aircraft and vehicles using visual signals by the use of an ALDIS lamp. These signals will be displayed in accordance with guidelines issued in the CAP 637 Visual Aids Hand Book.

Position at time of decision	Route
VOR SUM or NDB(L) SBH	Track 310°(T) at 2400 FT ALT until clear of the CTR/CTA.

2 HELICOPTER OPERATIONS IN THE SUMBURGH CTR/CTA

a) Procedures for helicopter operations in the Sumburgh CTR/CTA are detailed at ENR 1.6.

3 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

4 NORTH ATLANTIC DEPARTURES

a) Due to the proximity of the Shanwick Oceanic boundary to Sumburgh, pilots must consider timescales for submitting an ’RCL’. Refer to ENR 2.2, paragraph 3.8.2 for details.

5 APPROACH AND APPROACH RADAR SERVICES

a) Approach and Approach Radar Services for Sumburgh Airport are provided from Aberdeen ATSU. If this service is not available during published hours, the CTR/CTA airspace will revert to Class G status. In the event, this will be promulgated by NOTAM.

EGPB AD 2.23 ADDITIONAL INFORMATION

a) Aircraft operators are responsible for the searching of any aircraft parked either overnight or within the demarcated area prior to departure.

EGPB AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPB-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGPB-2-2
CTR - WESTERLY OUTBOUND/INBOUND HMRI
AD 2.EGPB-3-1
CTR - EASTERLY OUTBOUND/INBOUND HMRI
AD 2.EGPB-3-2
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGPB-5-1
INSTRUMENT APPROACH CHART LOC/DME/VOR or NDB(L) RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPB-8-1
INSTRUMENT APPROACH CHART RNP RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPB-8-2
INSTRUMENT APPROACH CHART VOR/DME RWY 09 (CAT A,B,C) - ICAO
AD 2.EGPB-8-3
INSTRUMENT APPROACH CHART RNP RWY 15 (CAT A,B,C) - ICAO
AD 2.EGPB-8-4
INSTRUMENT APPROACH CHART ILS/DME/VOR or NDB(L) RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPB-8-5
INSTRUMENT APPROACH CHART LOC/DME/VOR or NDB(L) RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPB-8-6

INSTRUMENT APPROACH CHART RNP RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPB-8-7
INSTRUMENT APPROACH CHART VOR/DME RWY 27 (CAT A,B,C) - ICAO
AD 2.EGPB-8-8
INSTRUMENT APPROACH CHART VOR/DME 006° TO AERODROME (CAT A,B,C) - ICAO
AD 2.EGPB-8-9
INSTRUMENT APPROACH CHART VOR/DME 147° TO AERODROME (CAT A,B) - ICAO
AD 2.EGPB-8-10
INSTRUMENT APPROACH CHART DIRECT ARRIVALS RWY 09/27 (CAT A,B,C) - ICAO
AD 2.EGPB-8-11
INSTRUMENT APPROACH CHART DIRECT ARRIVALS VOR/DME 147°/006° TO AERODROME (CAT A,B,C)
AD 2.EGPB-8-12
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09
AD 2.EGPB-8-13
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 15
AD 2.EGPB-8-14
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 27
AD 2.EGPB-8-15

EGPB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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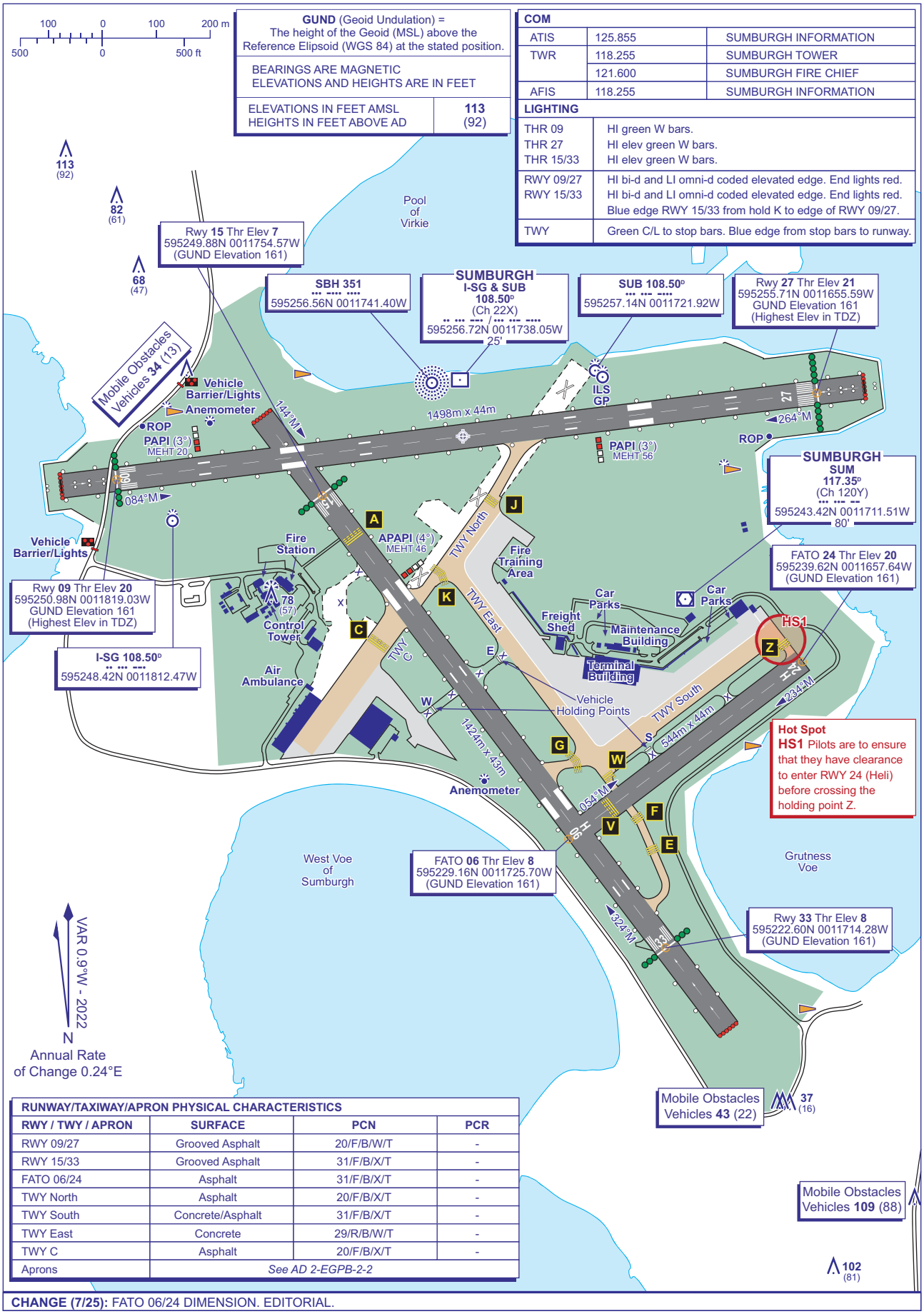
AERODROME CHART - ICAO

ARP 595253N 0011738W

AD ELEV 21FT

SUMBURGH
EGPB



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	SURFACE	PCN	PCR
RWY 09/27	Grooved Asphalt	20/F/B/W/T	-
RWY 15/33	Grooved Asphalt	31/F/B/X/T	-
FATO 06/24	Asphalt	31/F/B/X/T	-
TWY North	Asphalt	20/F/B/X/T	-
TWY South	Concrete/Asphalt	31/F/B/X/T	-
TWY East	Concrete	29/R/B/W/T	-
TWY C	Asphalt	20/F/B/X/T	-
Aprons	*See AD 2-EGPB-2-2*		

CHANGE (7/25): FATO 06/24 DIMENSION. EDITORIAL.

AERO INFO DATE 16 APR 25

AD 2-EGPB-2-1

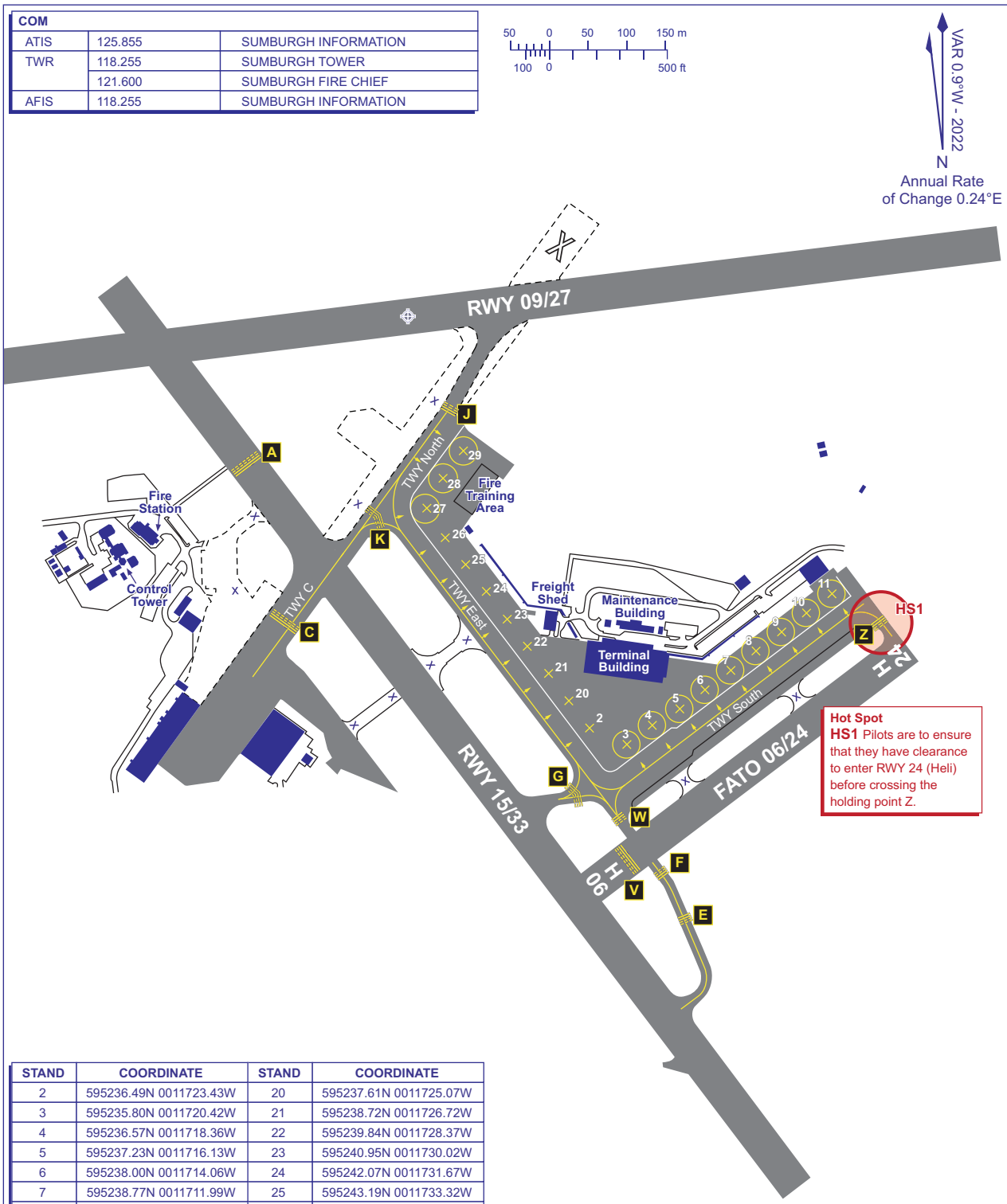
AIRCRAFT PARKING/DOCKING CHART - ICAO

ARP 595253N 0011738W

AD ELEV 21FT

SUMBURGH
EGPB

COM		
ATIS	125.855	SUMBURGH INFORMATION
TWR	118.255	SUMBURGH TOWER
	121.600	SUMBURGH FIRE CHIEF
AFIS	118.255	SUMBURGH INFORMATION



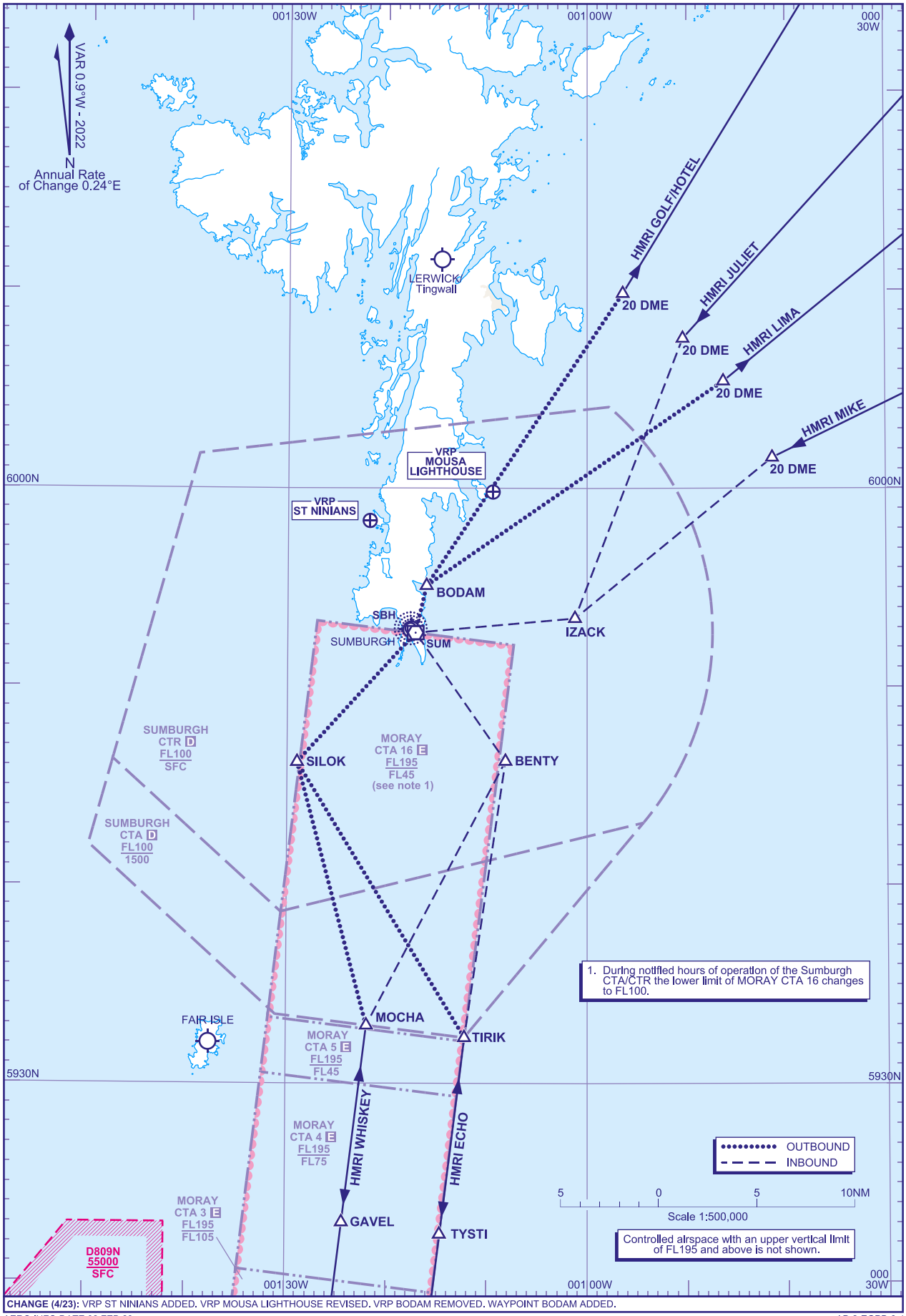
STAND	COORDINATE	STAND	COORDINATE
2	595236.49N 0011723.43W	20	595237.61N 0011725.07W
3	595235.80N 0011720.42W	21	595238.72N 0011726.72W
4	595236.57N 0011718.36W	22	595239.84N 0011728.37W
5	595237.23N 0011716.13W	23	595240.95N 0011730.02W
6	595238.00N 0011714.06W	24	595242.07N 0011731.67W
7	595238.77N 0011711.99W	25	595243.19N 0011733.32W
8	595239.54N 0011709.93W	26	595244.30N 0011734.97W
9	595240.31N 0011707.86W	27	595245.49N 0011736.42W
10	595241.08N 0011705.80W	28	595246.71N 0011735.05W
11	595241.85N 0011703.74W	29	595247.82N 0011733.40W

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS				
APRON / RWY / TWY	SURFACE	PCN	PCR	ELEVATION
Terminal East	Concrete	29/R/B/W/T	-	-
Terminal West	Concrete	16/R/B/W/T	-	-
RWY (All)	*See AD 2-EGPB-2-1*			
TWY (All)				

CHANGE (7/25): EDITORIAL.

AERO INFO DATE 16 APR 25

CTR-WESTERLY OUTBOUND/INBOUND HMRI — SUMBURGH

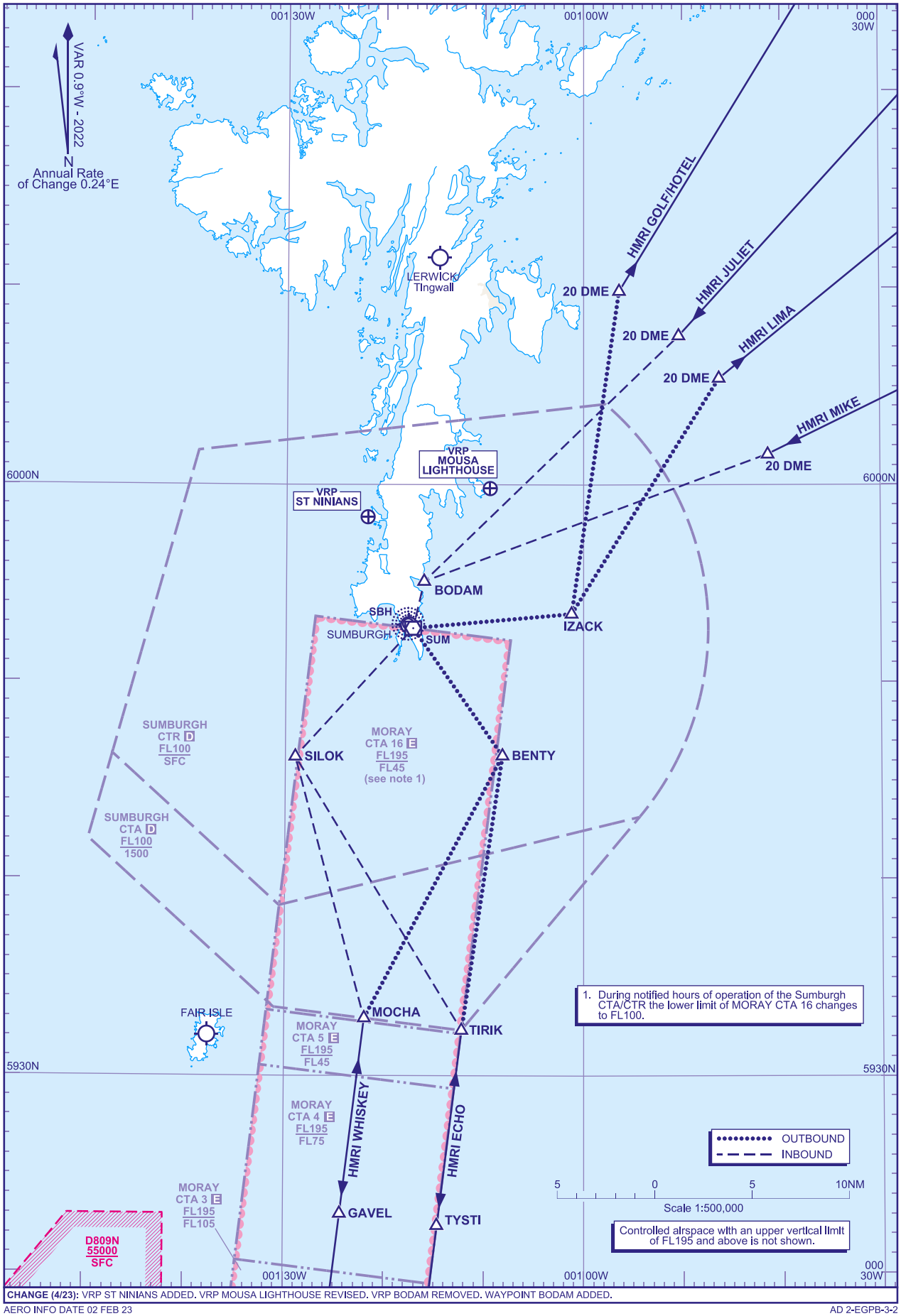


CHANGE (4/23): VRP ST NINIANS ADDED. VRP MOUSA LIGHTHOUSE REVISED. VRP BODAM REMOVED. WAYPOINT BODAM ADDED.

AERO INFO DATE 02 FEB 23

AD 2-EGPB-3-1

CTR-EASTERLY OUTBOUND/INBOUND HMRI — SUMBURGH



CHANGE (4/23): VRP ST NINIANS ADDED. VRP MOUSA LIGHTHOUSE REVISED. VRP BODAM REMOVED. WAYPOINT BODAM ADDED.

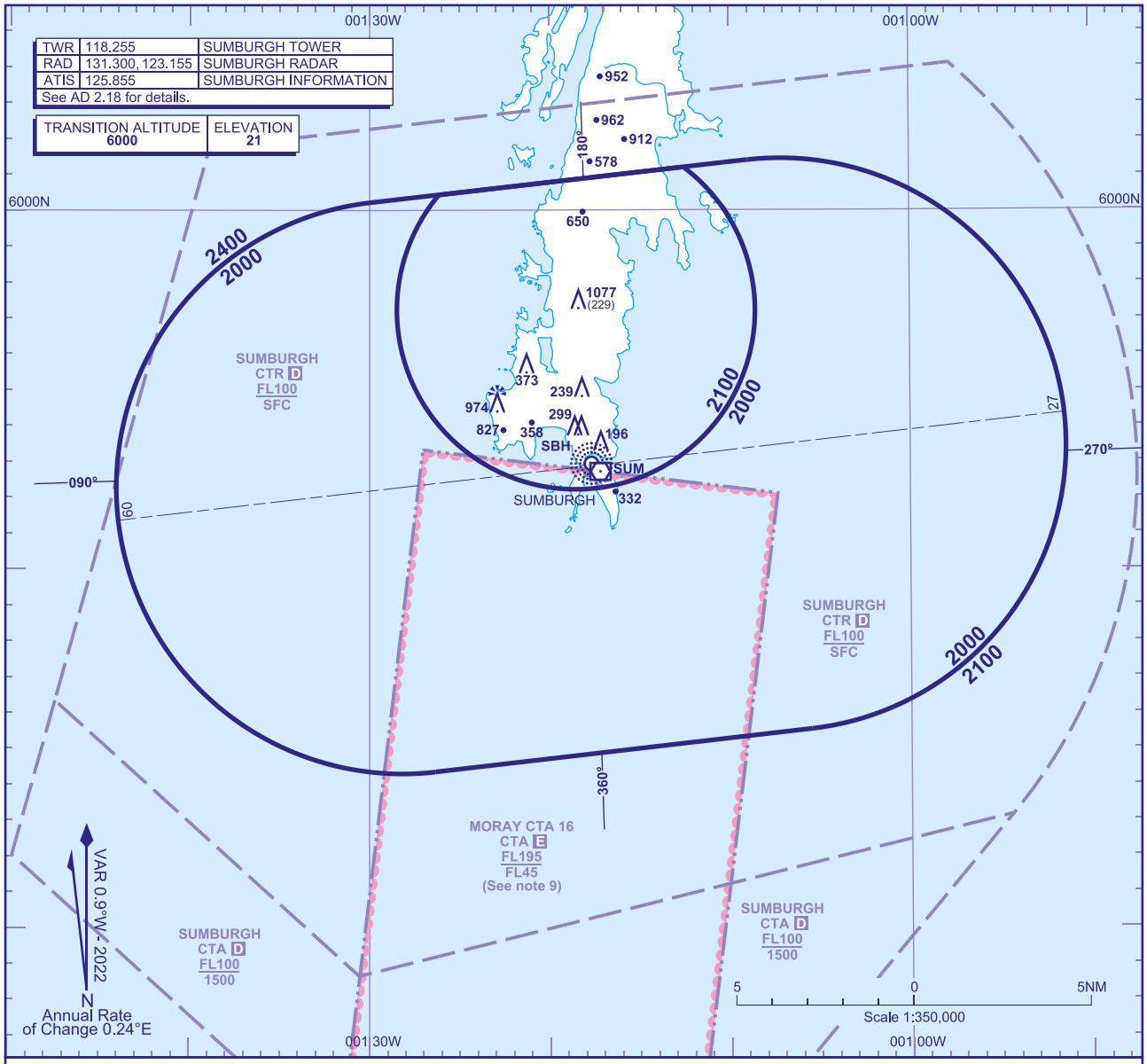
AERO INFO DATE 02 FEB 23

AD 2-EGPB-3-2

ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 1077
HEIGHTS IN FEET AGL (229)

SUMBURGH



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **2000** in the sector defined by the lateral limits; 600013N 0013000W - 600124N 0010859W thence clockwise by an arc of a circle radius 8NM centred on 595328N 0010714W to 594532N 0010530W - 594421N 0012621W thence clockwise by an arc of a circle radius 8NM centred on 595217N 0012810W to 600013N 0013000W, except;

b) **2100** in the sector defined by the lateral limits; 600026N 0012609W - 600112N 0011234W thence clockwise by an arc of a circle radius 5NM centred on 595713N 0011832W to 600026N 0012609W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at 2100, or last assigned level if higher to **VOR SUM**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **VOR SUM**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
7. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
8. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.
9. During notified hours of operation of the Sumburgh CTA/CTR the lower limit of MORAY CTA 16 changes to FL100.

CHANGE (5/22): MORAY CTA 16 AND TMZ ADDED.

AERO INFO DATE 11 MAR 22

AD 2-EGPB-5-1

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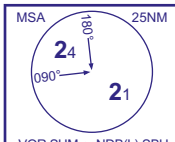
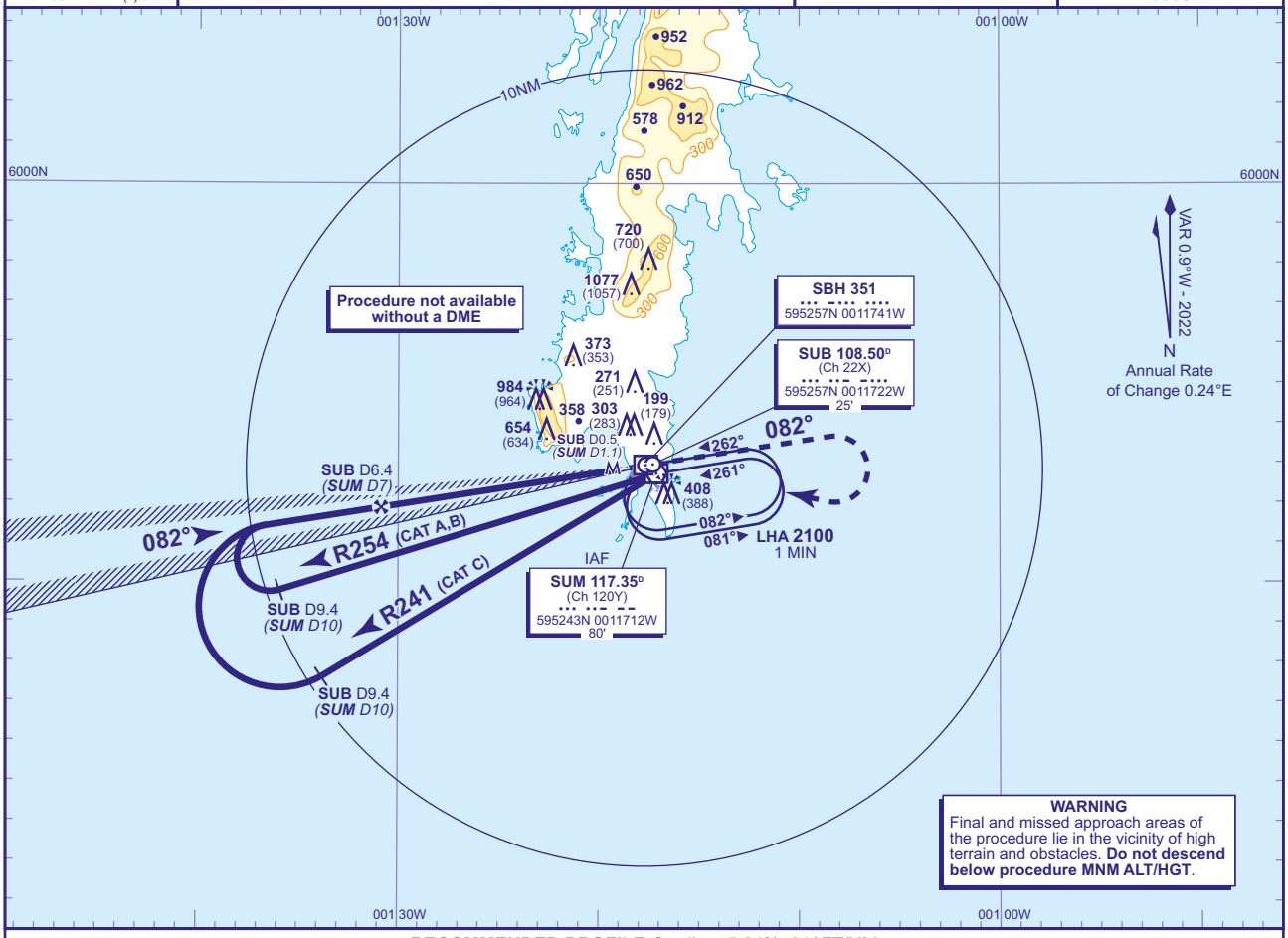
INSTRUMENT APPROACH CHART - ICAO

SUMBURGH LOC/DME/ VOR or NDB(L) RWY 09

(ACFT CAT A,B,C)



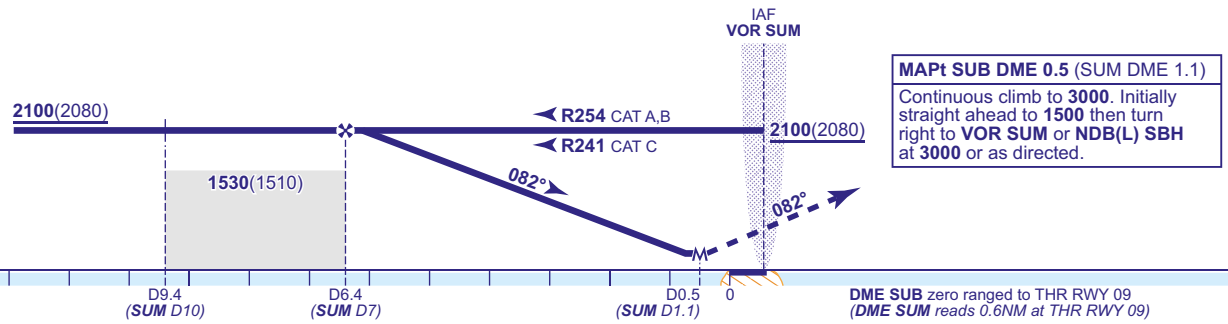
TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	TRANSITION ALTITUDE 6000
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	20	
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION 1077 AMSL (1057) (ABOVE THR)		
AFIS	118.255	SUMBURGH INFORMATION	BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

SUB DME(SUM)	6(6.6)	5(5.6)	4(4.6)	3(3.6)	2(2.6)	1(1.6)
ALT(HGT)	**1980**(1960)	**1660**(1640)	**1340**(1320)	**1030**(1010)	**710**(690)	**390**(370)

Arrival **not below MSA**. Shuttle in hold as necessary.



MAPt SUB DME 0.5 (SUM DME 1.1)

Continuous climb to **3000**. Initially straight ahead to **1500** then turn right to **VOR SUM** or **NDB(L) SBH** at **3000** or as directed.

DME SUB zero ranged to THR RWY 09 (***DME SUM*** *reads 0.6NM at THR RWY 09*)

Aircraft Category		A	B	C
OCA (OCH)	Procedure	**300**(280)	**300**(280)	**300**(280)
VM(C)OCA (OCH AAL)	Total Area	**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 2)	**800**(779)	**800**(779)	**1130**(1109)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
IAF NDB(L) SBH. As for main procedure except fly outbound on baseturn procedure on NDB(L) SBH QDR 253° (CAT A,B), QDR 240° (CAT C).

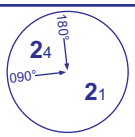
NOTE 1 LOC is offset 2.2° south of the extended RWY C/L and intercepts the RWY C/L 0.8NM from the THR.
2 Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS.

AERO INFO DATE 16 OCT 23

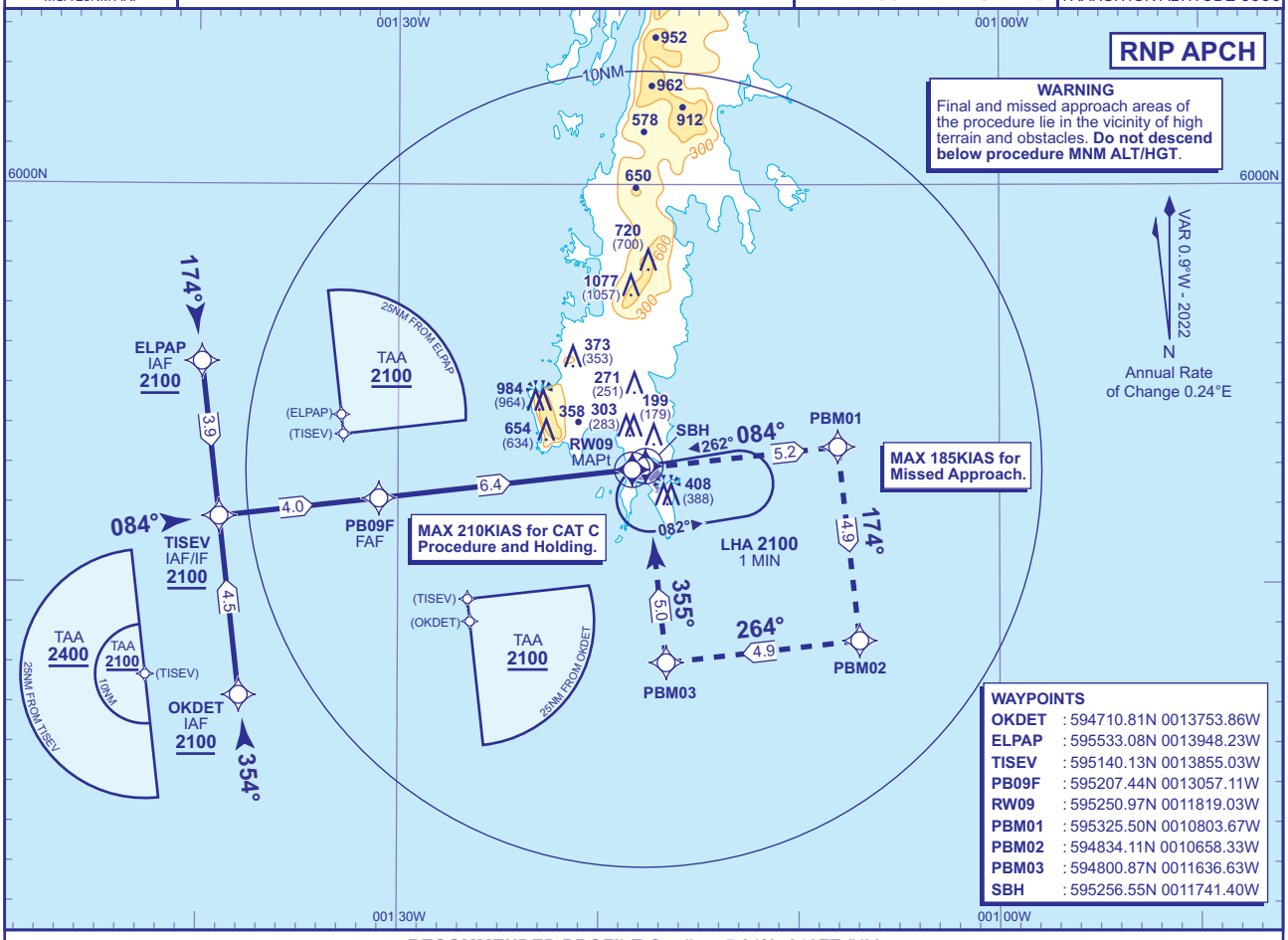
INSTRUMENT APPROACH CHART - ICAO

SUMBURGH
RNP
RWY 09
(ACFT CAT A,B,C)



MSA 25NM ARP

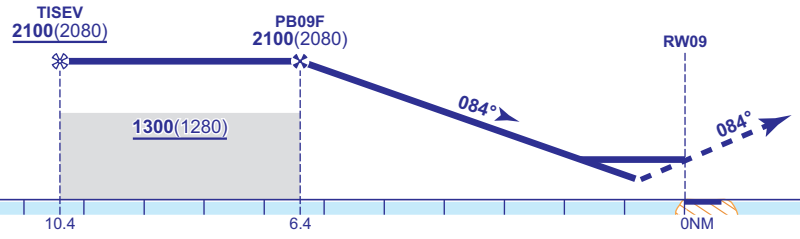
TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	20	
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION		
AFIS	118.255	SUMBURGH INFORMATION	**1077 AMSL** (1057) (ABOVE THR)		
			BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE **6000**	



RECOMMENDED PROFILE Gradient 5.24%, 318FT /NM

NM to RW09	6	5	4	3	2	1
ALT(HGT)	**1970**(1950)	**1650**(1630)	**1330**(1310)	**1020**(1000)	**700**(680)	**380**(360)

TCH 40



MAPt (LNAV): RW09
Continuous climb to **3000**. Initially straight ahead to **PBM01**, then turn right to **PBM02**, right to **PBM03** and right to **SBH** to join the hold or as directed.

Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**LNAV**	**630**(610)	**630**(610)	**630**(610)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 1)	**800**(779)	**800**(779)	**1130**(1109)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

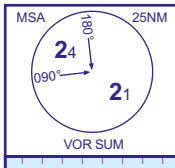
NOTE Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

CHANGE (12/21): EGNOS AND LPV REMOVED.

AERO INFO DATE 30 JUL 21

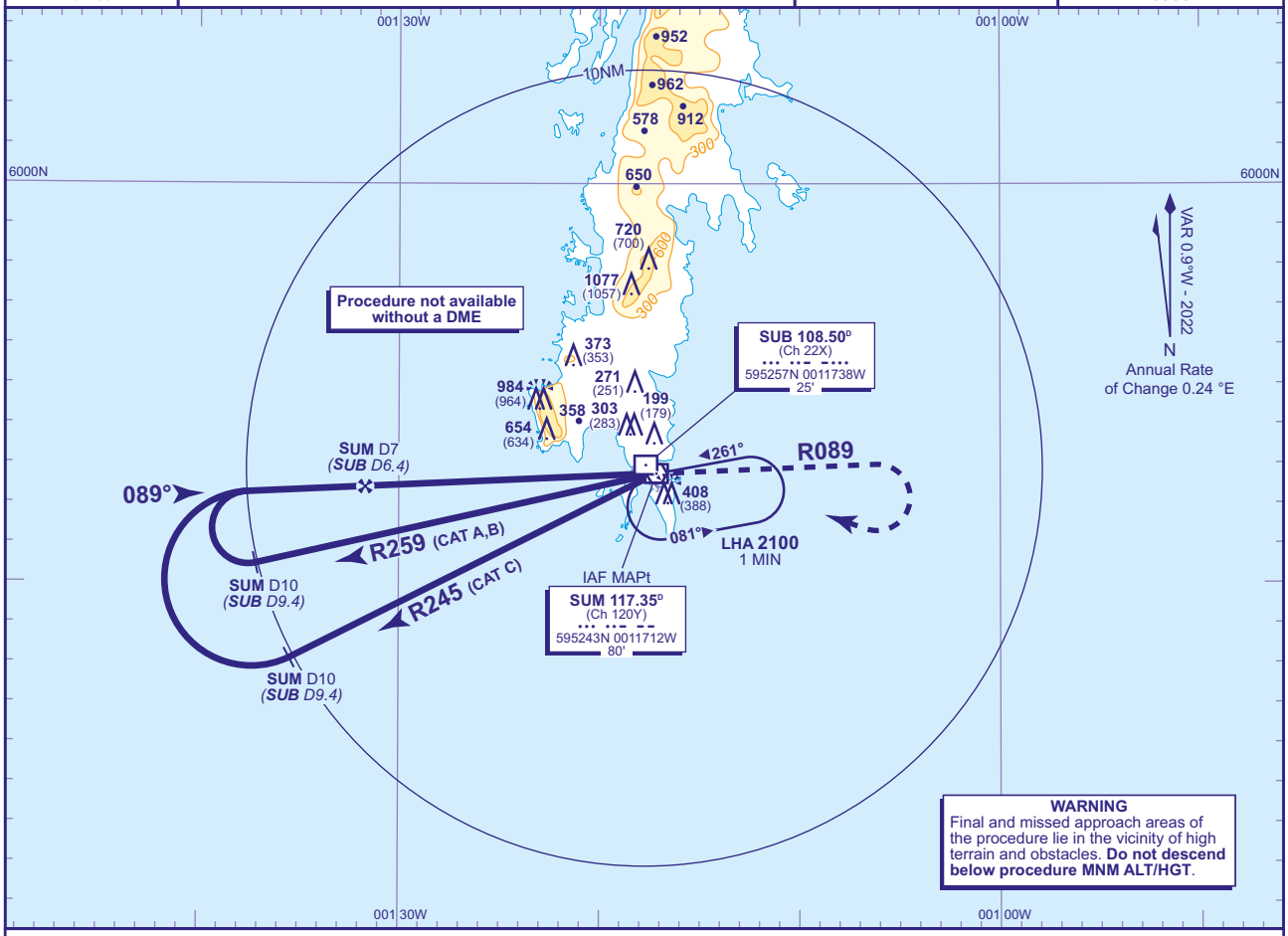
INSTRUMENT APPROACH CHART - ICAO

SUMBURGH VOR/DME RWY 09
(ACFT CAT A,B,C)



TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	20
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION	
AFIS	118.255	SUMBURGH INFORMATION	1077 AMSL (1057) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

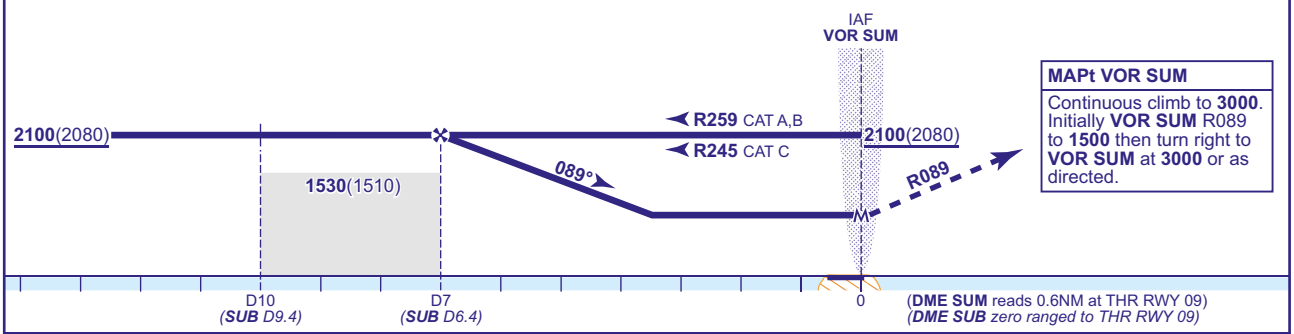
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.22%, 317FT/NM

SUM DME(SUB)	6(5.4)	5(4.4)	4(3.4)
ALT(HGT)	**1790**(1770)	**1470**(1450)	**1150**(1130)

Arrival **not below MSA**. Shuttle in hold as necessary.



MAPt VOR SUM
Continuous climb to **3000**. Initially **VOR SUM** R089 to **1500** then turn right to **VOR SUM** at **3000** or as directed.

Aircraft Category		A	B	C
OCA (OCH)	**Procedure**	**900**(880)	**900**(880)	**900**(880)
VM(C)OCA (OCH AAL)	**Total Area**	**900**(879)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 2)	**900**(879)	**900**(879)	**1130**(1109)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	630	530	420

NOTE 1 FAT is offset 5.1° north of the extended RWY C/L and intercepts the RWY C/L 1.6NM from the THR.
2 Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

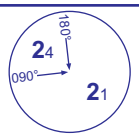
CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS.

AERO INFO DATE 16 OCT 23

AD 2-EGPB-8-3

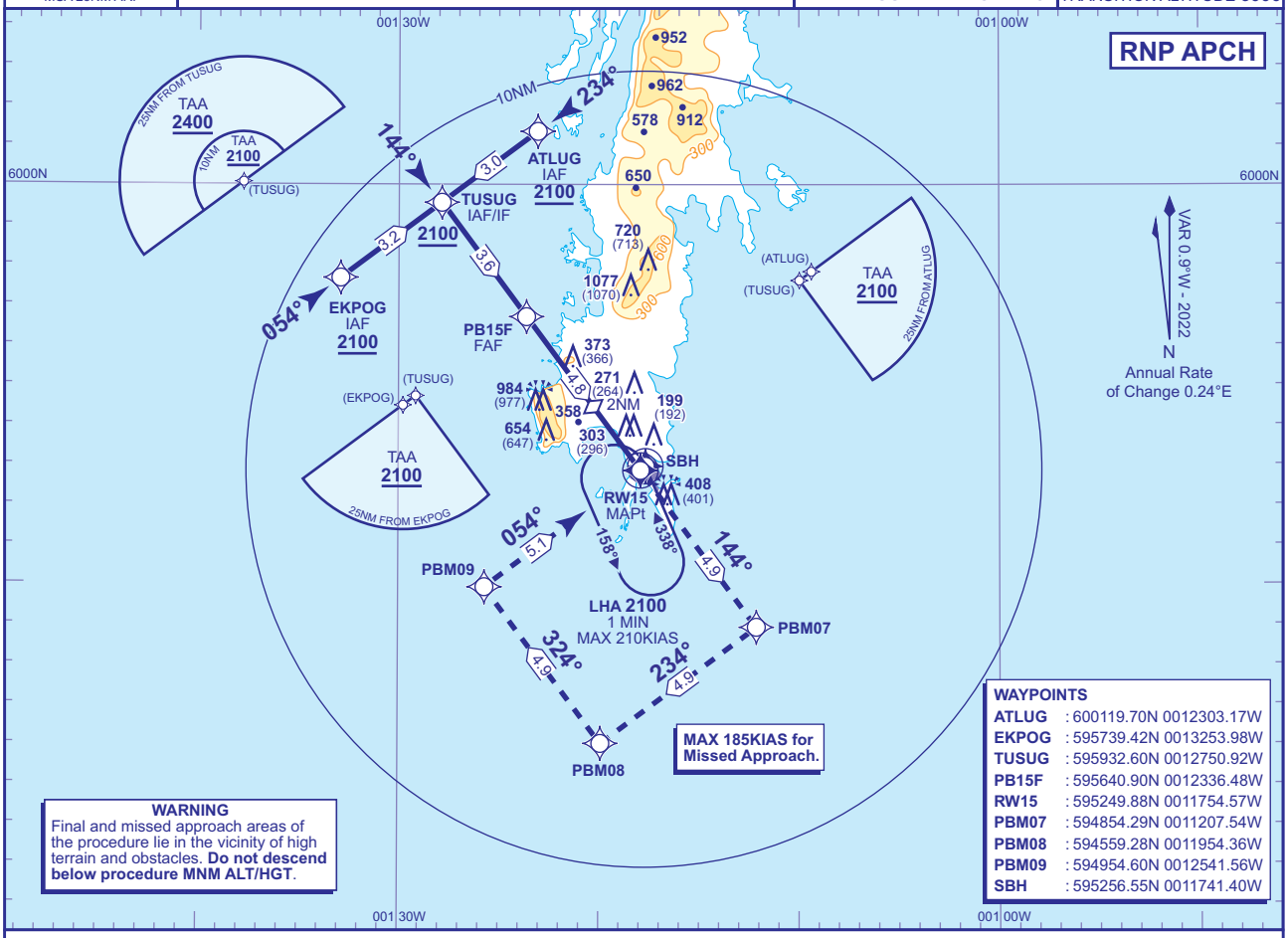
INSTRUMENT APPROACH CHART - ICAO

SUMBURGH
RNP
RWY 15
(ACFT CAT A,B,C)



MSA 25NM ARP

TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	7	
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION	1077 AMSL (1070) (ABOVE THR)	
AFIS	118.255	SUMBURGH INFORMATION	BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000

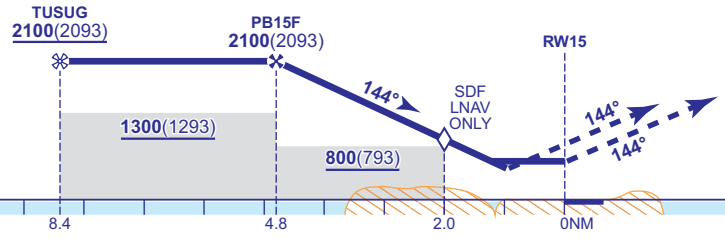


WARNING
Final and missed approach areas of the procedure lie in the vicinity of high terrain and obstacles. **Do not descend below procedure MNM ALT/HGT.**

RECOMMENDED PROFILE Gradient 6.99%, 425FT /NM

NM to RW15	4	3	2 (SDF)	1
ALT(HGT)	**1760**(1753)	**1330**(1323)	**910**(903)	**480**(473)

TCH 50



MAPt (LNAV): RW15
Continuous climb to **3000**. Initially straight ahead to **PBM07**, then turn right to **PBM08**, right to **PBM09** and right to **SBH** to join the hold or as directed.

Aircraft Category		A	B	C
OCA (OCH)	LNAV	**560**(553)	**560**(553)	**610**(603)
VM(C)OCA (OCH AAL)	Total Area	**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 1)	**800**(779)	**800**(779)	**1130**(1109)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

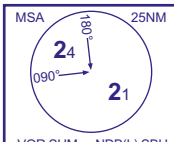
NOTE 1 Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

CHANGE (12/21): EGNOS AND LPV REMOVED.

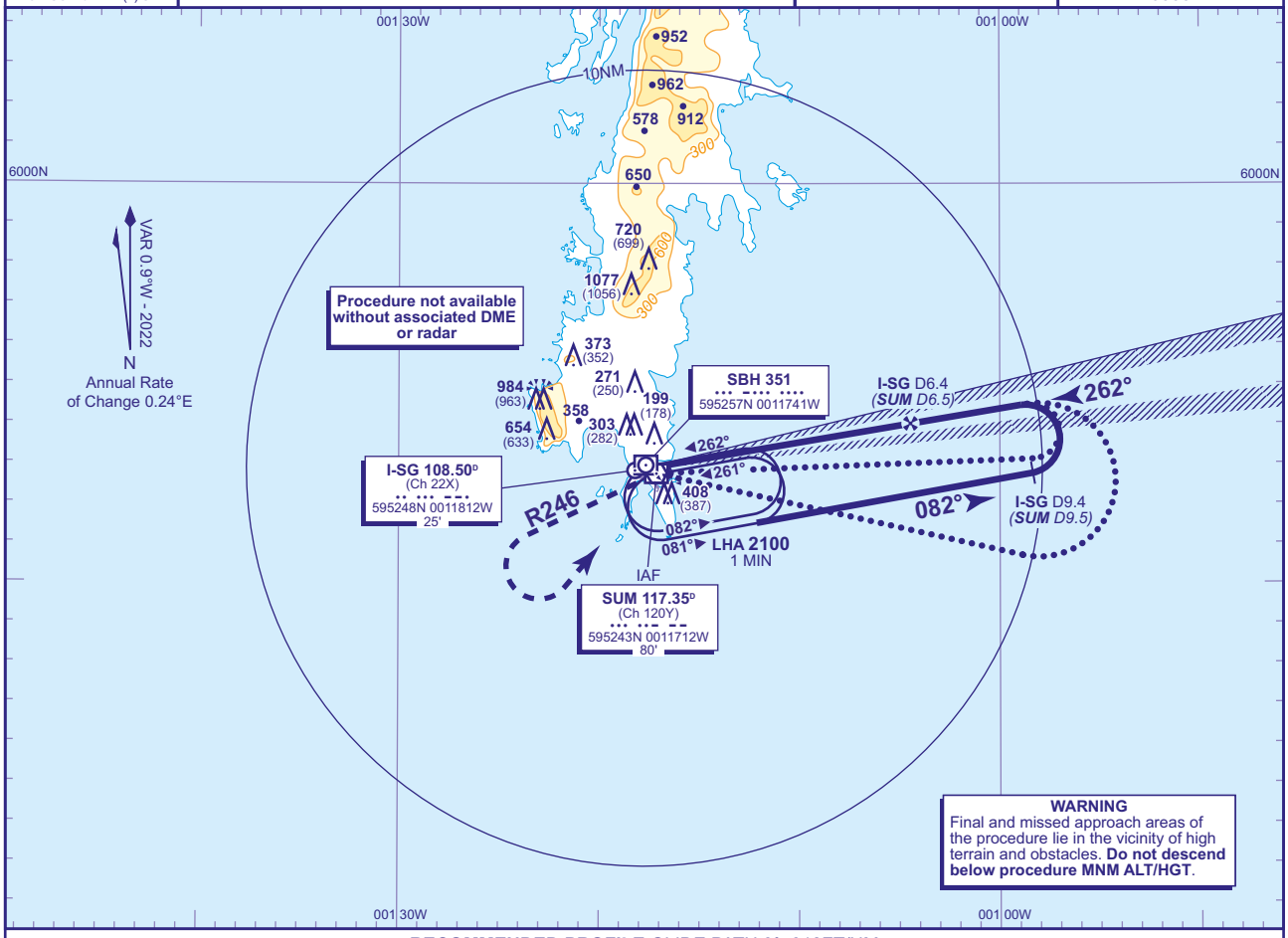
AERO INFO DATE 30 JUL 21

INSTRUMENT APPROACH CHART - ICAO

SUMBURGH ILS/DME/ VOR or NDB(L) RWY 27 (ACFT CAT A,B,C)



TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	TRANSITION ALTITUDE 6000
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	21	
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION 1077 AMSL (1056) (ABOVE THR)		
AFIS	118.255	SUMBURGH INFORMATION	BEARINGS ARE MAGNETIC		

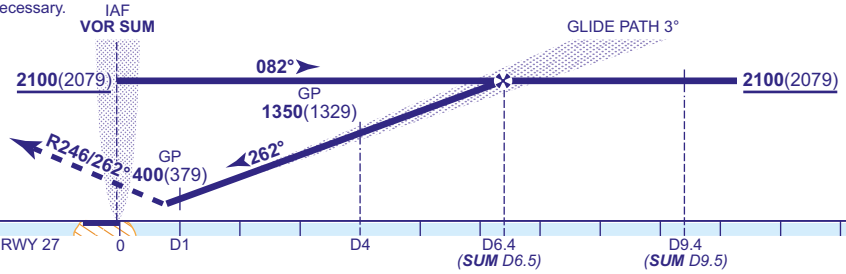


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

I-SG DME	6	5	4	3	2	1
ALT(HGT)	**1990**(1969)	**1670**(1649)	**1350**(1329)	**1030**(1009)	**710**(689)	**400**(379)

RDH 56 Arrival **not below MSA**. Shuttle in hold as necessary.

Continuous climb to **3000**. Initially straight ahead to until abeam **VOR SUM** then turn left to establish on **SUM VOR** R246 (**NDB(L) SBH** QDM 245°). On reaching **1500** turn left to **VOR SUM** or **NDB(L) SBH** climbing to **3000** or as directed.



Aircraft Category		A	B	C
OCA (OCH)	CAT I	**267**(246)	**267**(246)	**267**(246)
VM(C)OCA (OCH AAL)	Total Area	**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 3)	**800**(779)	**800**(779)	**1130**(1109)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURES
From NDB(L) SBH hold: As for main procedure except fly outbound on extended outbound leg of the NDB(L) SBH hold.
From overhead VOR SUM or NDB(L) SBH: From the overhead **not below 2100**(2079) fly outbound on SUM VOR R089/NDB(L) SBH QDR 091 ° (CAT A,B), SUM VOR R104/NDB(L) SBH QDR 105° (CAT C) **not below 2100**(2079). At I-SG DME 9.4 (SUM DME 9.5) base turn left to establish on the LOC. Once established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-SG
Advise ATC. Equivalent radar ranges will be provided at 9.4NM outbound and inbound at 7NM approaching the FAP and at 4NM.

NOTE 1 LOC is offset 2.6° north of the extended RWY C/L and intercepts the RWY C/L 0.4NM from the THR.
2 Due to the relative position of VOR/DME and the THR of RWY 27, DME SUM does not provide reliable ranges to the THR.
3 Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

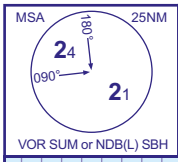
CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS.

AERO INFO DATE 17 OCT 23

I

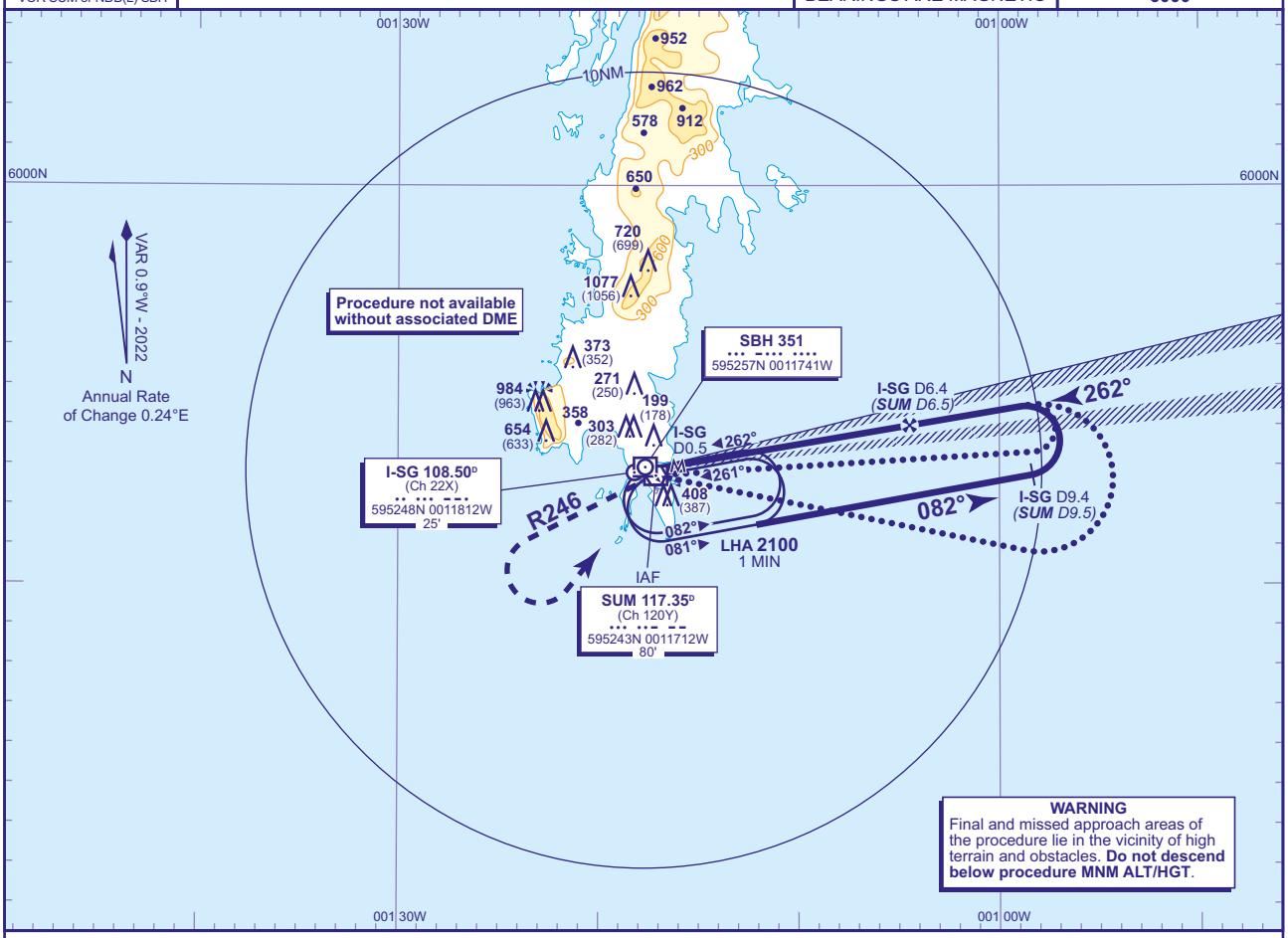
INSTRUMENT APPROACH CHART - ICAO

SUMBURGH LOC/DME/ VOR or NDB(L) RWY 27
(ACFT CAT A,B,C)



TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	21	
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION		
AFIS	118.255	SUMBURGH INFORMATION	**1077 AMSL** (1056) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**

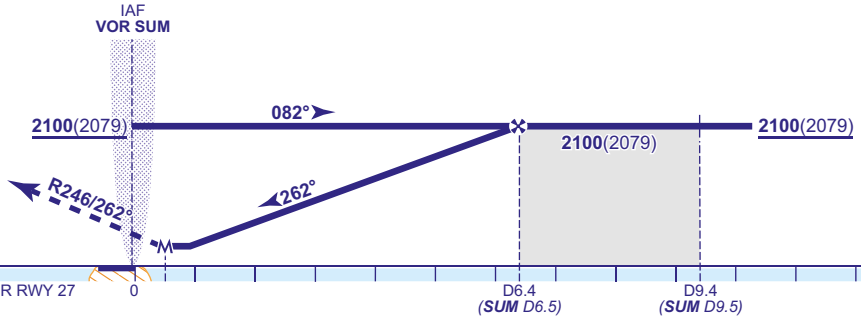


RECOMMENDED PROFILE GRADIENT 5.24%, 318FT/NM

I-SG DME	6	5	4	3	2	1
ALT(HGT)	**1990**(1969)	**1670**(1649)	**1350**(1329)	**1030**(1009)	**710**(689)	**400**(379)

Arrival **not below MSA**. Shuttle in hold as necessary.

MAPt I-SG DME 0.5
Continuous climb to **3000**. Initially straight ahead until abeam **VOR SUM** then turn left to establish on **SUM VOR** R246 (**NDB(L) SBH** QDM 245°). On reaching **1500** turn left to **VOR SUM** or **NDB(L) SBH** climbing to **3000** or as directed.



Aircraft Category		**A**	**B**	**C**
OCA (OCH)	**Procedure**	**330**(309)	**330**(309)	**330**(309)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 3)	**800**(779)	**800**(779)	**1130**(1109)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURES
From NDB(L) SBH hold: As for main procedure except fly outbound on extended outbound leg of the NDB(L) SBH hold.
From overhead VOR SUM or NDB(L) SBH: From the overhead **not below 2100**(2079) fly outbound on SUM VOR R089/NDB(L) SBH QDR 091° (CAT A,B), SUM VOR R104/NDB(L) SBH QDR 105° (CAT C) **not below 2100**(2079). At I-SG DME 9.4 (SUM DME 9.5) base turn left to establish on the LOC. Once established continue as for main procedure.

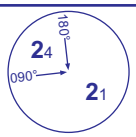
NOTE 1 LOC is offset 2.6° north of the extended RWY C/L and intercepts the RWY C/L 0.4NM from the THR.
2 Due to the relative position of VOR/DME and the THR of RWY 27, DME SUM does not provide reliable ranges to the THR.
3 Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS.

AERO INFO DATE 16 OCT 23 AD 2-EGPB-8-6

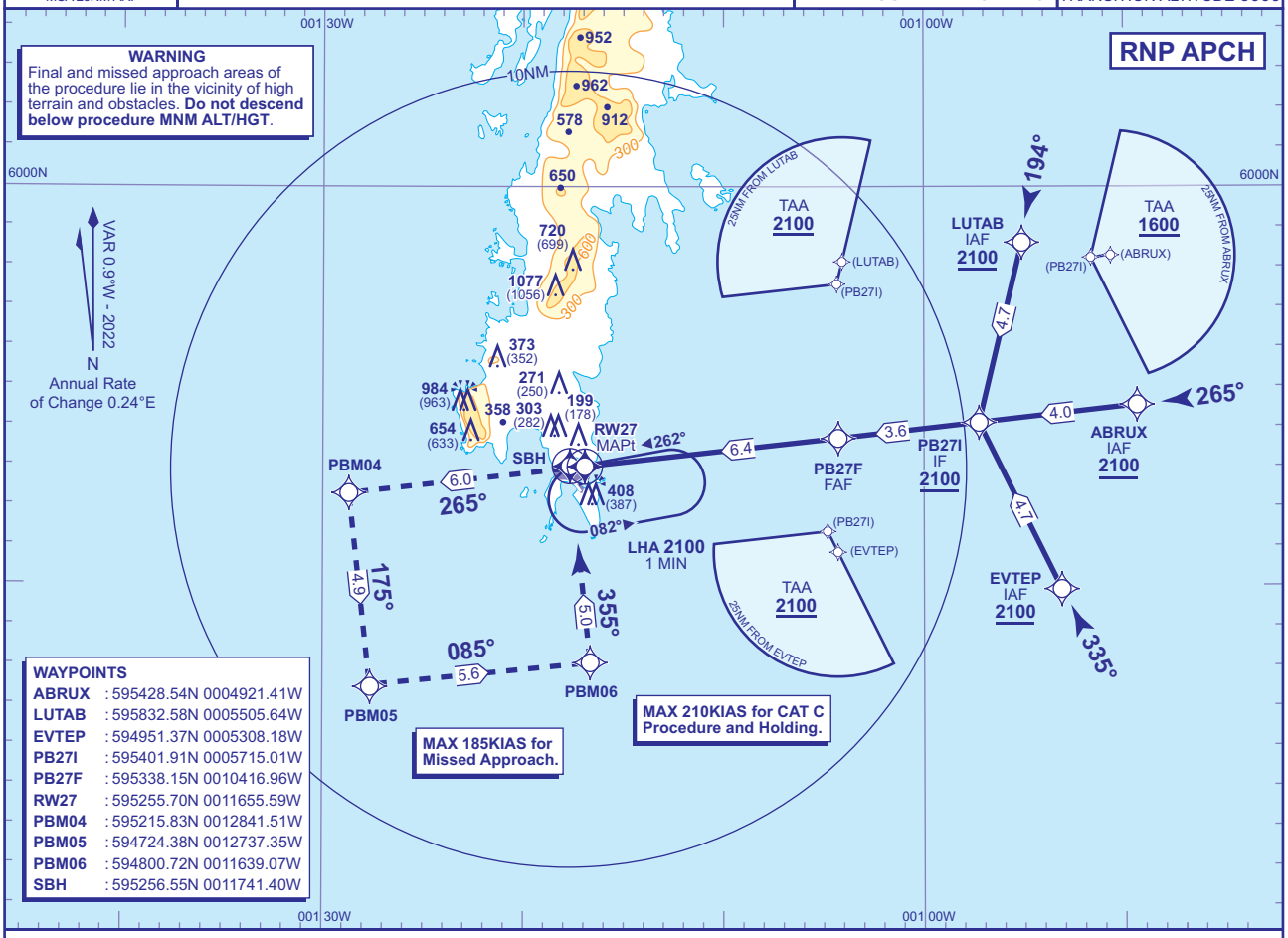
INSTRUMENT APPROACH CHART - ICAO

SUMBURGH
RNP
RWY 27
(ACFT CAT A,B,C)



MSA 25NM ARP

TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	21
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION	
AFIS	118.255	SUMBURGH INFORMATION	1077 AMSL (1056) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 6000



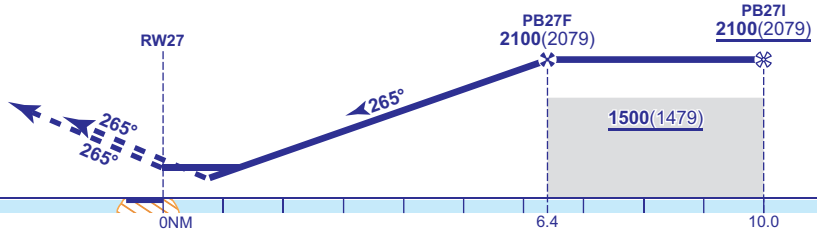
RECOMMENDED PROFILE Gradient 5.24%, 318FT /NM

NM to RW27	6	5	4	3	2	1
ALT(HGT)	**1970**(1949)	**1650**(1629)	**1330**(1309)	**1020**(999)	**700**(679)	**380**(359)

TCH 40

MAPt (LNAV): RW27

Continuous climb to **3000**. Initially climb straight ahead to **PBM04**, then turn left **PBM05**, left to **PBM06** and left to **SBH** to join the hold or as directed.



Aircraft Category			A	B	C
OCA (OCH)	LNAV	2.5%	**730**(709)	**730**(709)	**730**(709)
		5.0%	**470**(449)	**470**(449)	**470**(449)
VM(C)OCA (OCH AAL)	Total Area		**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 1)		**800**(779)	**800**(779)	**1130**(1109)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

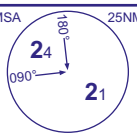
NOTE 1 Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

CHANGE (12/21): EGNOS AND LPV REMOVED.

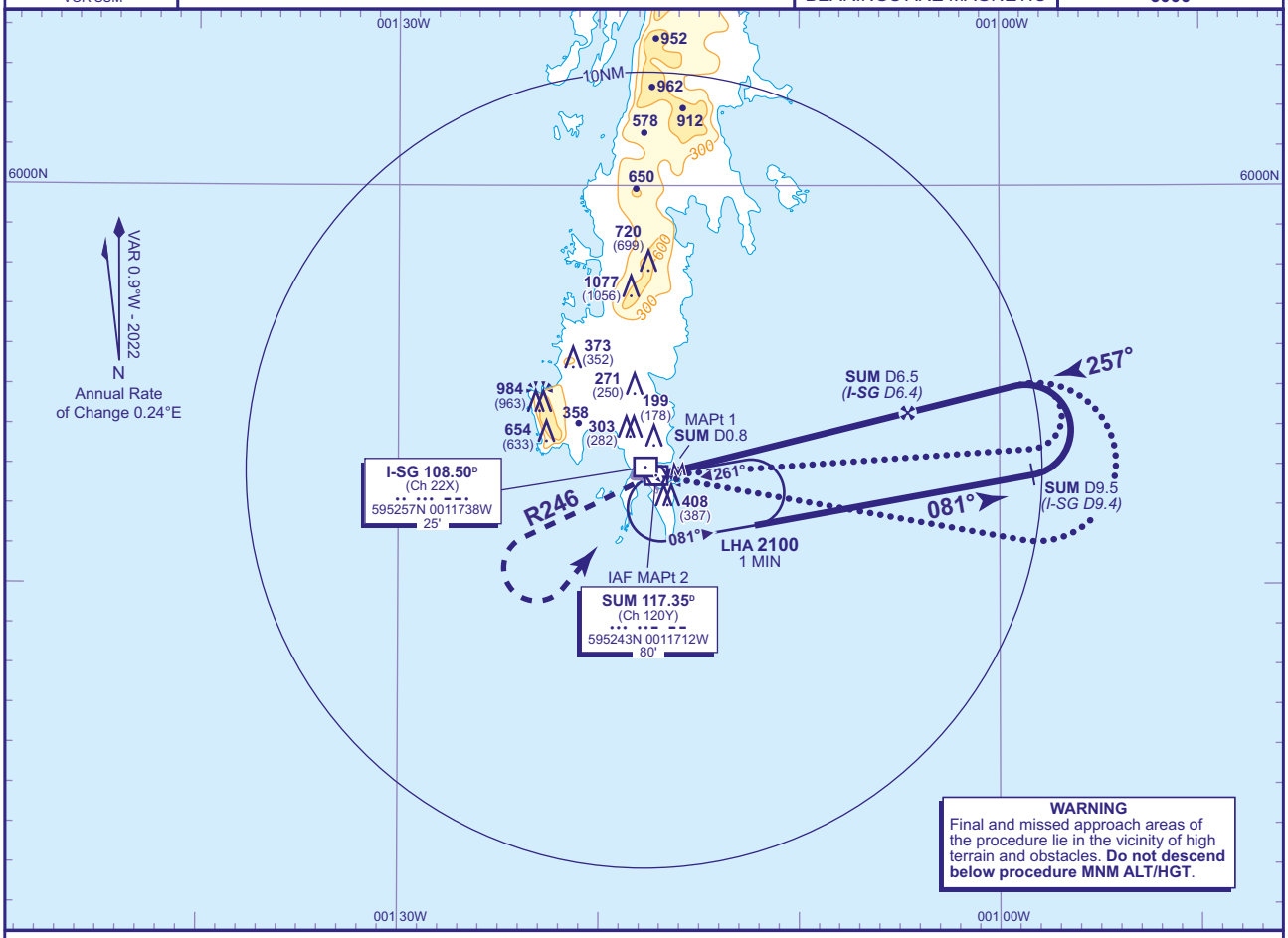
AERO INFO DATE 30 JUL 21

INSTRUMENT APPROACH CHART - ICAO

SUMBURGH VOR/DME RWY 27
(ACFT CAT A,B,C)



TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	TRANSITION ALTITUDE 6000
RAD	131.300, 123.155	SUMBURGH RADAR	THR ELEVATION	21	
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION 1077 AMSL (1056) (ABOVE THR)		
AFIS	118.255	SUMBURGH INFORMATION	BEARINGS ARE MAGNETIC		

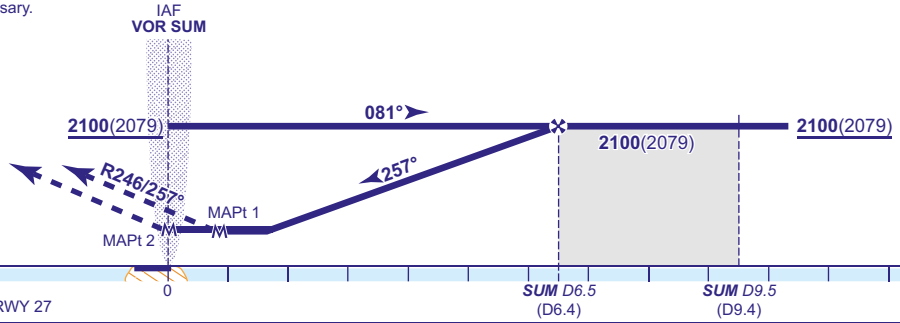


RECOMMENDED PROFILE Gradient 5.21%, 316FT/NM

SUM DME (I-SG)	6(5.9)	5(4.9)	4(3.9)	3(2.8)	2(1.8)
ALT(HGT)	**1940**(1919)	**1630**(1609)	**1310**(1289)	**990**(969)	**680**(659)

Arrival **not below MSA**. Shuttle in hold as necessary.

MAPt 1 (WITH DME) SUM DME 0.8
MAPt 2 (NO DME) SUM VOR
Continuous climb to **3000**. Initially straight ahead to **VOR SUM** then turn left to establish on **SUM VOR** R246. On reaching **1500** turn left to **VOR SUM** climbing to **3000** or as directed.



I-SG DME zero ranged to THR RWY 27

Aircraft Category		A	B	C
OCA (OCH)	**WITH DME**	**560**(539)	**560**(539)	**560**(539)
	NO DME	**590**(569)	**590**(569)	**590**(569)
VM(C)OCA (OCH AAL)	**Total Area**	**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note 3)	**800**(779)	**800**(779)	**1130**(1109)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	740	630	530	420

ALTERNATIVE PROCEDURE
From overhead VOR SUM: From overhead **not below 2100**(2079) fly outbound on SUM VOR R086 (CAT A,B), SUM VOR R101 (CAT C) **not below 2100**(2079). At SUM DME 9.5 (I-SG DME 9.4) base turn left to establish on the FAT. Once established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME Advise ATC. Fly outbound on Racetrack or Alternative Baseturn procedure for 3MIN (CAT A,B) 2.5MIN(CAT C), then turn left to establish on the FAT. Once established descend to OCA(H).

NOTE 1 FAT is offset 6.8° north of the extended RWY C/L and intercepts the RWY C/L 0.4NM from the THR.
2 Due to the relative position of VOR/DME SUM and the THR of RWY 27, DME SUM does not provide reliable ranges to the THR.
3 Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

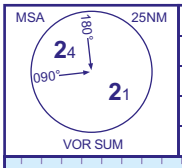
CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS.

AERO INFO DATE 16 OCT 23 AD 2-EGPB-8-8

INSTRUMENT APPROACH CHART - ICAO

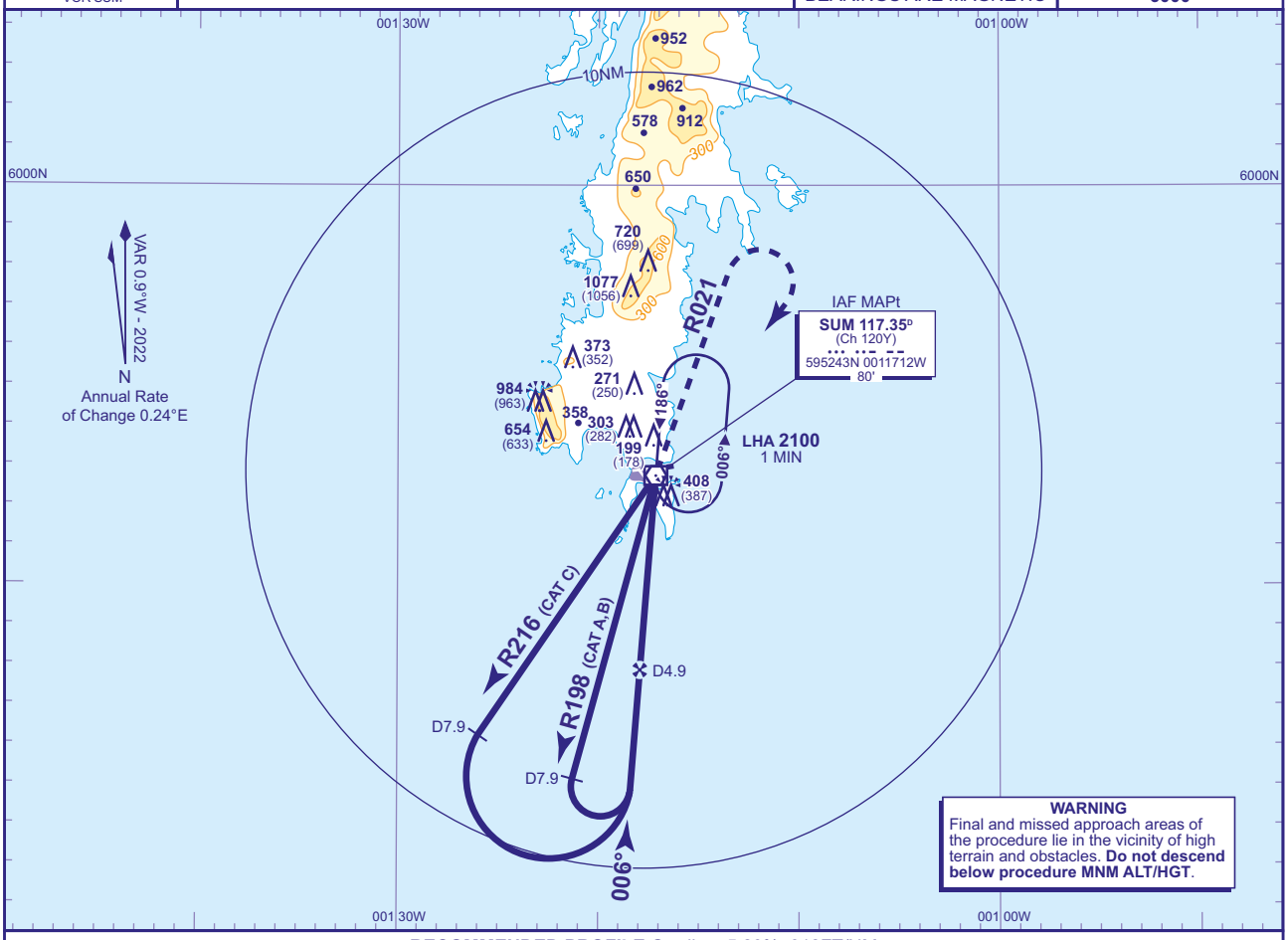
SUMBURGH VOR/DME 006° TO AERODROME
(ACFT CAT A,B,C)

I



TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	
RAD	131.300, 123.155	SUMBURGH RADAR			
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION		
AFIS	118.255	SUMBURGH INFORMATION	1077 AMSL (1056) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		

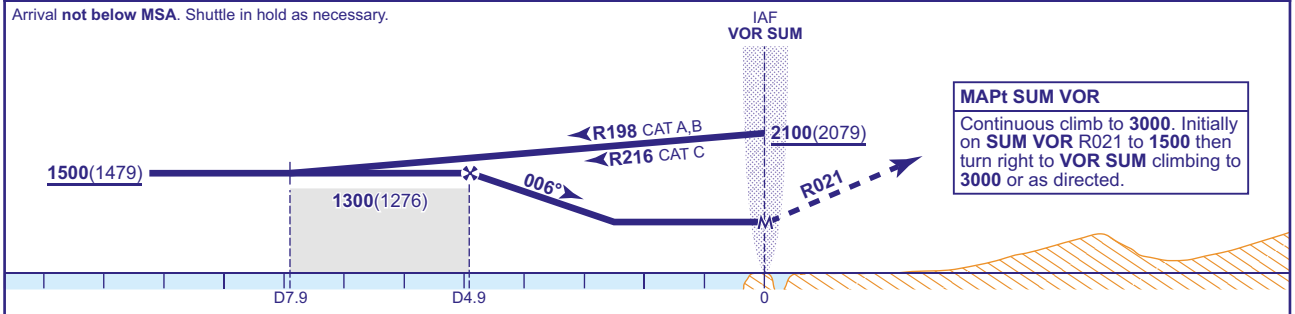
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.23%, 318FT/NM

SUM DME	4	3
ALT(HGT)	**1230**(1209)	**910**(889)

Arrival **not below MSA**. Shuttle in hold as necessary.



MAPt SUM VOR
Continuous climb to **3000**. Initially on **SUM VOR** R021 to **1500** then turn right to **VOR SUM** climbing to **3000** or as directed.

Aircraft Category		A	B	C
OCA (OCH)		**APPROACH TO VM(C)**		
VM(C)OCA (OCH AAL)	**Total Area**	**800**(779)	**1200**(1179)	**1400**(1379)
	Restricted (See Note)	**800**(779)	**800**(779)	**1130**(1109)

Rate of descent						
G/S KT	160	140	120	100	80
FT/MIN	850	740	640	530	420

AIRCRAFT UNABLE TO RECEIVE DME
Advise ATC. Fly outbound on base turn procedure for 2.5MIN (CAT A,B) 2MIN (CAT C), then turn left to establish on the FAT. Once established descend to MDA(H).

NOTE Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

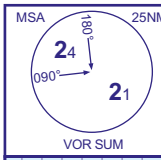
CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS. CHART TITLE.

AERO INFO DATE 16 OCT 23

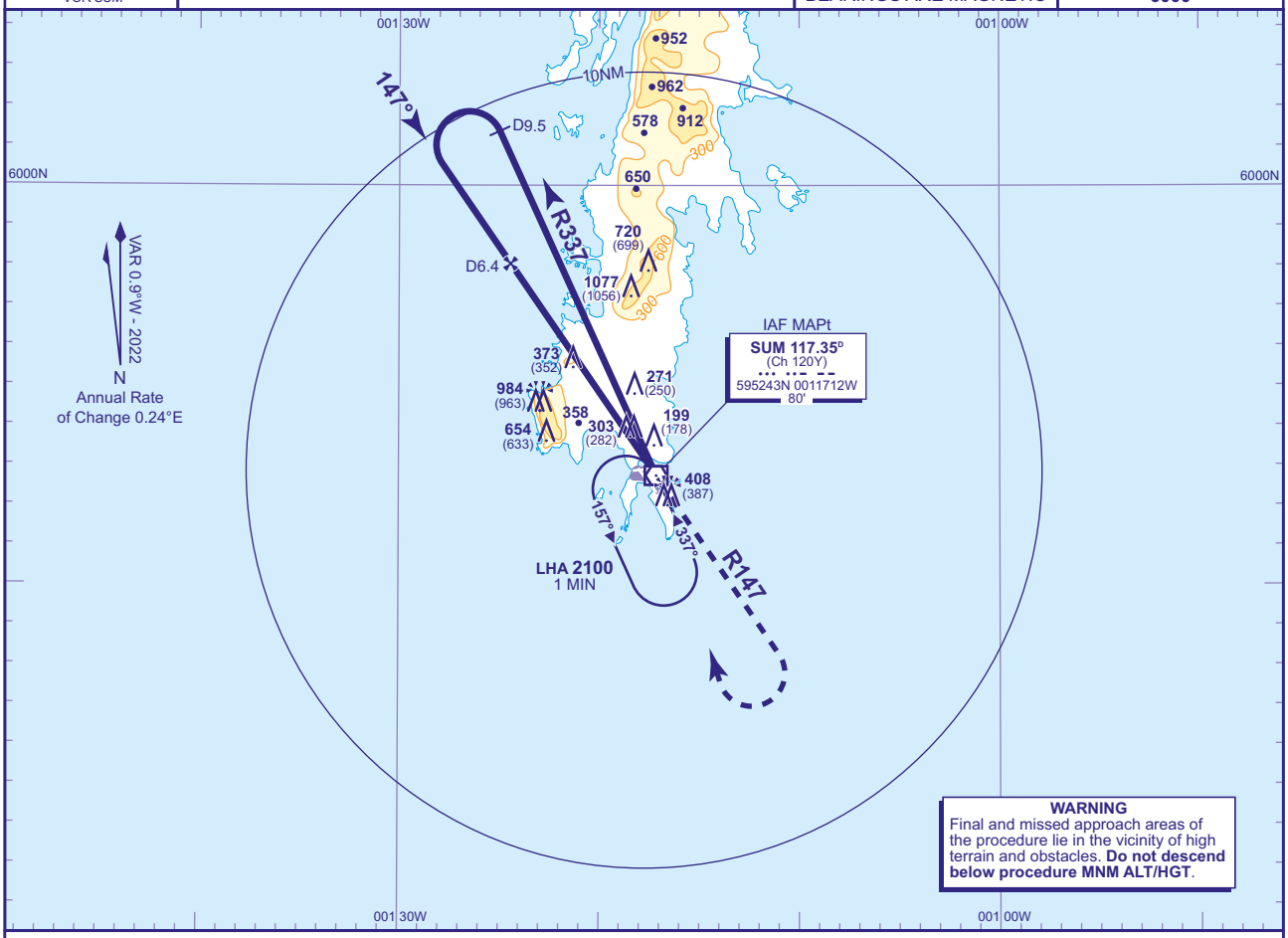
AD 2-EGPB-8-9

INSTRUMENT APPROACH CHART - ICAO

SUMBURGH VOR/DME 147° TO AERODROME
(ACFT CAT A,B)



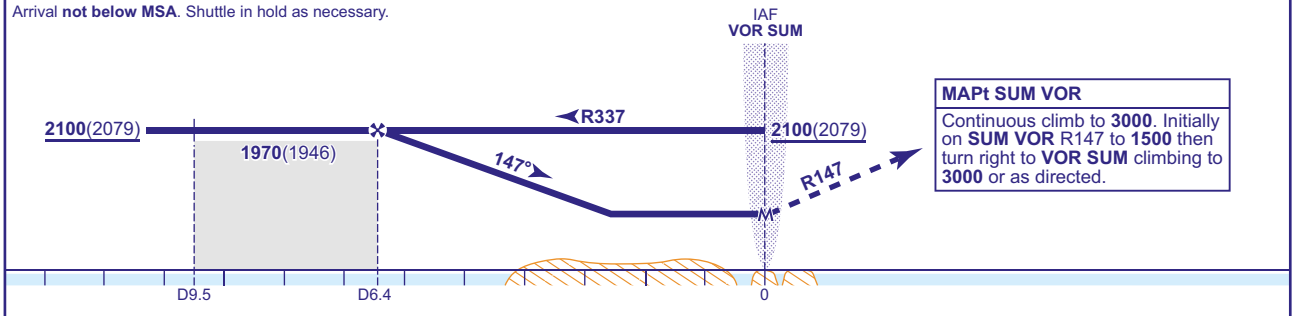
TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	
RAD	131.300, 123.155	SUMBURGH RADAR			
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION		
AFIS	118.255	SUMBURGH INFORMATION	**1077 AMSL** (1056) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.22%, 317FT/NM

SUM DME	6	5	4	3
ALT(HGT)	**1850**(1829)	**1540**(1519)	**1220**(1199)	**900**(879)

Arrival **not below MSA**. Shuttle in hold as necessary.



MAPt SUM VOR
Continuous climb to **3000**. Initially on **SUM VOR** R147 to **1500** then turn right to **VOR SUM** climbing to **3000** or as directed.

Aircraft Category		**A**	**B**
OCA (OCH)	**APPROACH TO VM(C)**		
VM(C)OCA (OCH AAL)	**Total Area**	**860**(839)	**1200**(1179)
	Restricted (See Note)	**860**(839)	**860**(839)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	630	530	420

AIRCRAFT UNABLE TO RECEIVE DME
Fly outbound on base turn procedure for 3MIN then turn left to establish on the FAT.

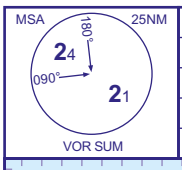
NOTE Reduced VM(C) minima applies to aircraft which manoeuvre outside the quadrant north of RWY 09/27 C/L and west of RWY 15/33 C/L.

CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS. CHART TITLE.

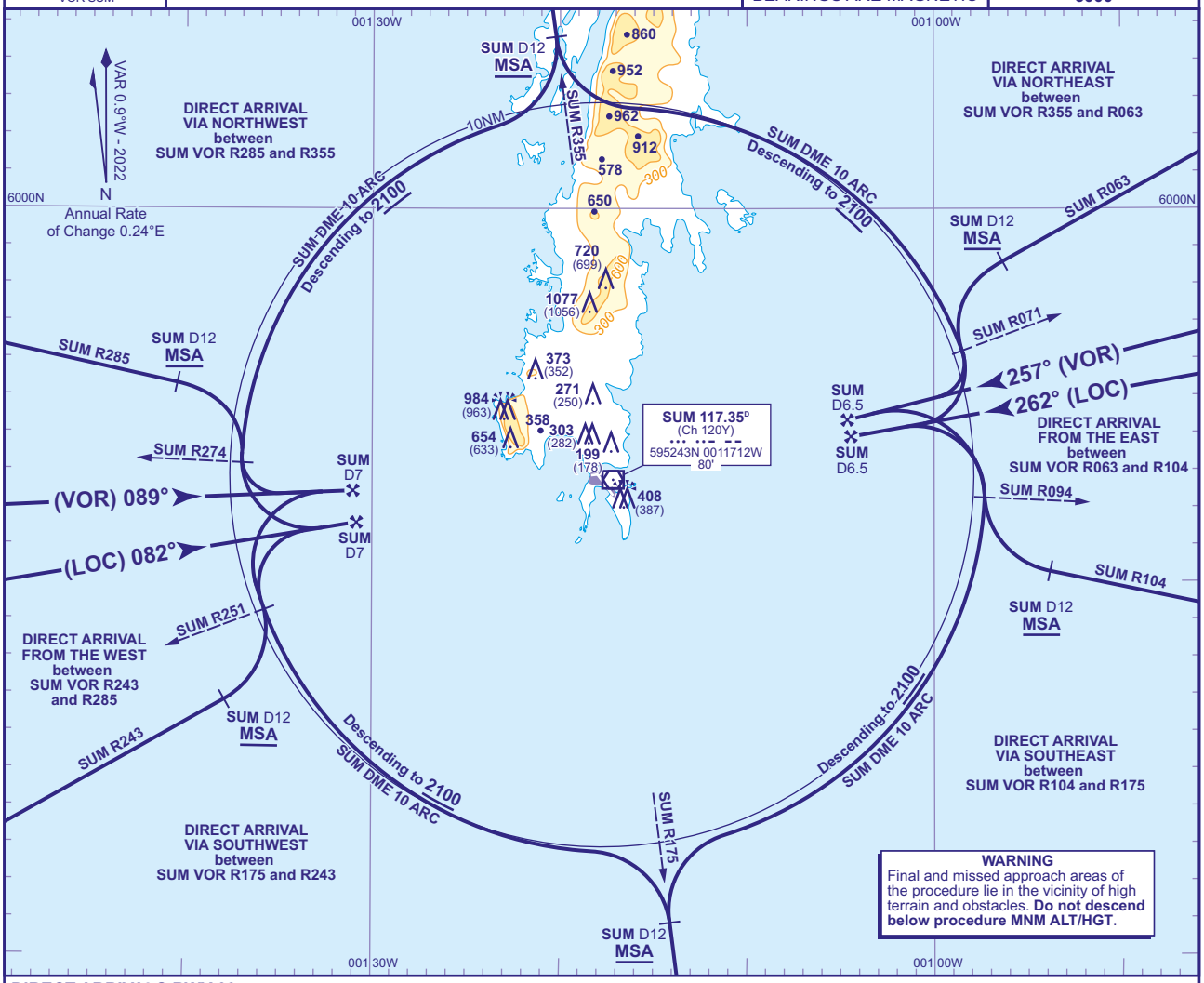
AERO INFO DATE 16 OCT 23 AD 2-EGPB-8-10

INSTRUMENT APPROACH CHART - ICAO

SUMBURGH Direct Arrivals RWY 09/27 (ACFT CAT A,B,C)



TWR	118.255	SUMBURGH TOWER	AD ELEVATION	21	
RAD	131.300, 123.155	SUMBURGH RADAR			
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION		
AFIS	118.255	SUMBURGH INFORMATION	1077 AMSL (1056) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE 6000



DIRECT ARRIVALS RWY 09

From the Northwest (SUM VOR R285 to R355)
Track towards VOR SUM on any radial between SUM VOR R285 and R355 **not below MSA**. At SUM DME 12 turn right to establish on the SUM DME 10 arc anti-clockwise. Once established on the arc descend to **not below 2100**. At SUM R274 turn left to establish on the LOC or FAT. Once established continue as for main procedure.

From the Southwest (SUM VOR R175 to R243)
Track towards VOR SUM on any radial between SUM VOR R175 and R243 **not below MSA**. At SUM DME 12 turn left to establish on the SUM DME 10 arc clockwise. Once established on the arc descend to **not below 2100**. At SUM R251 turn right to establish on the LOC or FAT. Once established continue as for main procedure.

From the West (SUM VOR R243 to R285)
Establish on the extended LOC or FAT **not below MSA**. Once established descend to **2100** and continue as for main procedure.

DIRECT ARRIVALS RWY 27

From the Northeast (SUM VOR R355 to R063)
Track towards VOR SUM on any radial between SUM VOR R355 and R063 **not below MSA**. At SUM DME 12 turn left to establish on the SUM DME 10 arc clockwise. Once established on the arc descend to **not below 2100**. At SUM R071 turn right to establish on the LOC or FAT. Once established continue as for main procedure.

From the Southeast (SUM VOR R104 to R175)
Track towards VOR SUM on any radial between SUM VOR R104 and R175 **not below MSA**. At SUM DME 12 turn right to establish on the SUM DME 10 arc anti-clockwise. Once established on the arc descend to **not below 2100**. At SUM R094 turn left to establish on the LOC or FAT. Once established continue as for main procedure.

From the East (SUM VOR R063 to R104)
Establish on the extended LOC or FAT **not below MSA**. Once established descend to **2100** and continue as for main procedure.

CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS.

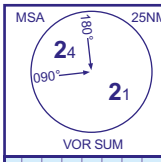
AERO INFO DATE 17 OCT 23

AD 2-EGPB-8-11

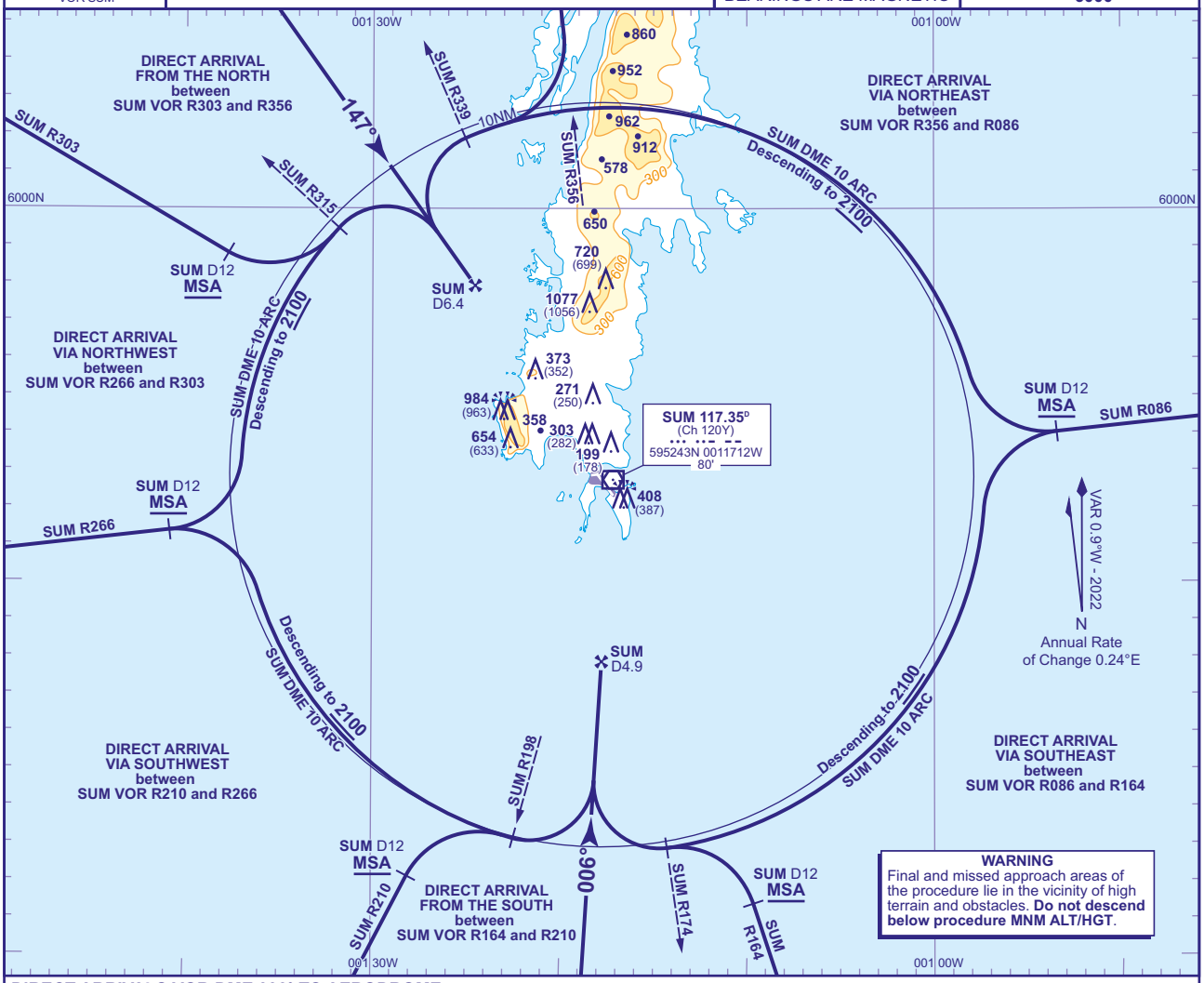
I

INSTRUMENT APPROACH CHART - ICAO

SUMBURGH
Direct Arrivals
VOR/DME 147°/006°
TO AERODROME
(ACFT CAT A,B,C)



TWR	118.255	SUMBURGH TOWER	AD ELEVATION 21	TRANSITION ALTITUDE 6000
RAD	131.300, 123.155	SUMBURGH RADAR		
ATIS	125.855	SUMBURGH INFORMATION	OBSTACLE ELEVATION 1077 AMSL (1056) (ABOVE THR)	
AFIS	118.255	SUMBURGH INFORMATION	BEARINGS ARE MAGNETIC	



DIRECT ARRIVALS VOR DME 006° TO AERODROME

From the Southwest (SUM VOR R210 to R266)
Track towards VOR SUM on any radial between SUM VOR R210 and R266 **not below MSA**. At SUM DME 12 turn right to establish on the SUM DME 10 arc anti-clockwise. Once established on the arc descend to **not below 2100**. At SUM R198 turn left to establish on the FAT. Once established continue as for main procedure.

From the Southeast (SUM VOR R086 to R164)
Track towards VOR SUM on any radial between SUM VOR R086 and R164 **not below MSA**. At SUM DME 12 turn left to establish on the SUM DME 10 arc clockwise. Once established on the arc descend to **not below 2100**. At SUM R174 turn right to establish on the FAT. Once established continue as for main procedure.

From the South (SUM VOR R164 to R210)
Establish on the extended FAT **not below MSA**. Once established and within SUM DME 10 descend to **1500** and continue as for main procedure.

DIRECT ARRIVALS VOR DME 147° TO AERODROME

From the Northwest (SUM VOR R266 to R303)
Track towards VOR SUM on any radial between SUM VOR R266 and R303 **not below MSA**. At SUM DME 12 turn left to establish on the SUM DME 10 arc clockwise. Once established on the arc descend to **not below 2100**. At SUM R315 turn right to establish on the FAT. Once established continue as for main procedure.

From the Northeast (SUM VOR R356 to R086)
Track towards VOR SUM on any radial between SUM VOR R356 and R086 **not below MSA**. At SUM DME 12 turn right to establish on the SUM DME 10 arc anti-clockwise. Once established on the arc descend to **not below 2100**. At SUM R339 turn left to establish on the FAT. Once established continue as for main procedure.

From the North (SUM VOR R303 to R356)
Establish on the extended FAT **not below MSA**. Once established descend to **2100** and continue as for main procedure.

CHANGE (13/23): VOR/DME SUM RECALIBRATED. RADIALS. CHART TITLE.

AERO INFO DATE 16 OCT 23 AD 2-EGPB-8-12

Instrument Approach Procedure Coding Tables

Sumburgh RNP RWY 09 - Instrument Approach Procedure via OKDET

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	OKDET	N	-	-	2100	210	594710.81N 0013753.86W	IAF
R09R	002	TF	TISEV	N	354° (353.5°)	RIGHT	2100	-	595140.13N 0013855.03W	IF / 10.4NM
R09R	003	TF	PB09F	N	084° (083.5°)	-	2100	-	595207.44N 0013057.11W	FAF / 6.4NM
R09R	004	TF	RW09	Y	084° (083.4°)	-	-	-	595250.97N 0011819.03W	MAPt
R09R	005	CF	PBM01	N	084° (083.6°)	RIGHT	-	185	595325.50N 0010803.67W	-
R09R	006	TF	PBM02	N	174° (173.6°)	RIGHT	-	185	594834.11N 0010658.33W	-
R09R	007	TF	PBM03	N	264° (263.6°)	RIGHT	-	185	594800.87N 0011636.63W	-
R09R	008	TF	SBH	Y	355° (353.7°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

Sumburgh RNP RWY 09 - Instrument Approach Procedure via TISEV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09C	001	IF	TISEV	N	-	-	2100	210	595140.13N 0013855.03W	IF / 10.4NM
R09C	002	TF	PB09F	N	084° (083.5°)	-	2100	-	595207.44N 0013057.11W	FAF / 6.4NM
R09C	003	TF	RW09	Y	084° (083.4°)	-	-	-	595250.97N 0011819.03W	MAPt
R09C	004	CF	PBM01	N	084° (083.6°)	RIGHT	-	185	595325.50N 0010803.67W	-
R09C	005	TF	PBM02	N	174° (173.6°)	RIGHT	-	185	594834.11N 0010658.33W	-
R09C	006	TF	PBM03	N	264° (263.6°)	RIGHT	-	185	594800.87N 0011636.63W	-
R09C	007	TF	SBH	Y	355° (353.7°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

Sumburgh RNP RWY 09 - Instrument Approach Procedure via ELPAP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09L	001	IF	ELPAP	N	-	-	2100	210	595533.08N 0013948.23W	IAF
R09L	002	TF	TISEV	N	174° (173.4°)	LEFT	2100	-	595140.13N 0013855.03W	IF / 10.4NM
R09L	003	TF	PB09F	N	084° (083.5°)	-	2100	-	595207.44N 0013057.11W	FAF / 6.4NM
R09L	004	TF	RW09	Y	084° (083.4°)	-	-	-	595250.97N 0011819.03W	MAPt
R09L	005	CF	PBM01	N	084° (083.6°)	RIGHT	-	185	595325.50N 0010803.67W	-
R09L	006	TF	PBM02	N	174° (173.6°)	RIGHT	-	185	594834.11N 0010658.33W	-
R09L	007	TF	PBM03	N	264° (263.6°)	RIGHT	-	185	594800.87N 0011636.63W	-
R09L	008	TF	SBH	Y	355° (353.7°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

CHANGE (5/21): MAG VAR. MAG TRACKS.
AERO INFO DATE 15 FEB 21

Instrument Approach Procedure Coding Tables

Sumburgh RNP RWY 15 - Instrument Approach Procedure via EKPOG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R15R	001	IF	EKPOG	N	-	-	2100	210	595739.42N 0013253.98W	IAF
R15R	002	TF	TUSUG	N	054° (053.3°)	RIGHT	2100	-	595932.60N 0012750.92W	IF / 8.4NM
R15R	003	TF	PB15F	N	144° (143.4°)	-	2100	-	595640.90N 0012336.48W	FAF / 4.8NM
R15R	004	TF	RW15	Y	144° (143.3°)	-	-	-	595249.88N 0011754.57W	MAPt
R15R	005	CF	PBM07	N	144° (143.4°)	RIGHT	-	185	594854.29N 0011207.54W	-
R15R	006	TF	PBM08	N	234° (233.4°)	RIGHT	-	185	594559.28N 0011954.36W	-
R15R	007	TF	PBM09	N	324° (323.4°)	RIGHT	-	185	594954.60N 0012541.56W	-
R15R	008	TF	SBH	Y	054° (053.0°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

Sumburgh RNP RWY 15 - Instrument Approach Procedure via TUSUG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R15C	001	IF	TUSUG	N	-	-	2100	210	595932.60N 0012750.92W	IF / 8.4NM
R15C	002	TF	PB15F	N	144° (143.4°)	-	2100	-	595640.90N 0012336.48W	FAF / 4.8NM
R15C	003	TF	RW15	Y	144° (143.3°)	-	-	-	595249.88N 0011754.57W	MAPt
R15C	004	CF	PBM07	N	144° (143.4°)	RIGHT	-	185	594854.29N 0011207.54W	-
R15C	005	TF	PBM08	N	234° (233.4°)	RIGHT	-	185	594559.28N 0011954.36W	-
R15C	006	TF	PBM09	N	324° (323.4°)	RIGHT	-	185	594954.60N 0012541.56W	-
R15C	007	TF	SBH	Y	054° (053.0°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

Sumburgh RNP RWY 15 - Instrument Approach Procedure via ATLUG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R15L	001	IF	ATLUG	N	-	-	2100	210	600119.70N 0012303.17W	IAF
R15L	002	TF	TUSUG	N	234° (233.4°)	LEFT	2100	-	595932.60N 0012750.92W	IF / 8.4NM
R15L	003	TF	PB15F	N	144° (143.4°)	-	2100	-	595640.90N 0012336.48W	FAF / 4.8NM
R15L	004	TF	RW15	Y	144° (143.3°)	-	-	-	595249.88N 0011754.57W	MAPt
R15L	005	CF	PBM07	N	144° (143.4°)	RIGHT	-	185	594854.29N 0011207.54W	-
R15L	006	TF	PBM08	N	234° (233.4°)	RIGHT	-	185	594559.28N 0011954.36W	-
R15L	007	TF	PBM09	N	324° (323.4°)	RIGHT	-	185	594954.60N 0012541.56W	-
R15L	008	TF	SBH	Y	054° (053.0°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

CHANGE (12/21): PAGE RENUMBERED.

Instrument Approach Procedure Coding Tables

Sumburgh RNP RWY 27 - Instrument Approach Procedure via LUTAB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27R	001	IF	LUTAB	N	-	-	2100	210	595832.58N 0005505.64W	IAF
R27R	002	TF	PB27I	N	194° (193.5°)	RIGHT	2100	-	595401.91N 0005715.01W	IF / 10.0NM
R27R	003	TF	PB27F	N	265° (263.7°)	-	2100	-	595338.15N 0010416.96W	FAF / 6.4NM
R27R	004	TF	RW27	Y	265° (263.7°)	-	-	-	595255.70N 0011655.59W	MAPt
R27R	005	CF	PBM04	N	265° (263.7°)	LEFT	-	185	595215.83N 0012841.51W	-
R27R	006	TF	PBM05	N	175° (173.7°)	LEFT	-	185	594724.38N 0012737.35W	-
R27R	007	TF	PBM06	N	085° (083.7°)	LEFT	-	185	594800.72N 0011639.07W	-
R27R	008	TF	SBH	Y	355° (354.0°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

Sumburgh RNP RWY 27 - Instrument Approach Procedure via ABRUX

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27C	001	IF	ABRUX	N	-	-	2100	210	595428.54N 0004921.41W	IAF
R27C	002	TF	PB27I	N	265° (263.7°)	-	2100	-	595401.91N 0005715.01W	IF / 10.0NM
R27C	003	TF	PB27F	N	265° (263.7°)	-	2100	-	595338.15N 0010416.96W	FAF / 6.4NM
R27C	004	TF	RW27	Y	265° (263.7°)	-	-	-	595255.70N 0011655.59W	MAPt
R27C	005	CF	PBM04	N	265° (263.7°)	LEFT	-	185	595215.83N 0012841.51W	-
R27C	006	TF	PBM05	N	175° (173.7°)	LEFT	-	185	594724.38N 0012737.35W	-
R27C	007	TF	PBM06	N	085° (083.7°)	LEFT	-	185	594800.72N 0011639.07W	-
R27C	008	TF	SBH	Y	355° (354.0°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

Sumburgh RNP RWY 27 - Instrument Approach Procedure via EVTEP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	EVTEP	N	-	-	2100	210	594951.37N 0005308.18W	IAF
R27L	002	TF	PB27I	N	335° (333.7°)	LEFT	2100	-	595401.91N 0005715.01W	IF / 10.0NM
R27L	003	TF	PB27F	N	265° (263.7°)	-	2100	-	595338.15N 0010416.96W	FAF / 6.4NM
R27L	004	TF	RW27	Y	265° (263.7°)	-	-	-	595255.70N 0011655.59W	MAPt
R27L	005	CF	PBM04	N	265° (263.7°)	LEFT	-	185	595215.83N 0012841.51W	-
R27L	006	TF	PBM05	N	175° (173.7°)	LEFT	-	185	594724.38N 0012737.35W	-
R27L	007	TF	PBM06	N	085° (083.7°)	LEFT	-	185	594800.72N 0011639.07W	-
R27L	008	TF	SBH	Y	355° (354.0°)	RIGHT	3000	185	595256.55N 0011741.40W	HOLD

CHANGE (12/21): PAGE RENUMBERED.
AERO INFO DATE 30 JUL 21

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EGFH — SWANSEA

EGFH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGFH — SWANSEA

EGFH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513618N Long: 0040405W Midpoint of Runway 04/22.
2	Direction and distance from city	5 NM WSW of Swansea.
3	Elevation / Reference temperature / Mean Low Temperature	298 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	174 FT
5	Magnetic Variation / Annual Change	0° (2027) / 0.18°E
6	AD Administration Address Telephone	SWANSEA AIRPORT STAKEHOLDER ALLIANCE. Swansea Airport, Fairwood Common, Swansea,SA2 7JU. 01792-687042 (ATC and Admin)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGFH AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Sun 0900-1800 (0800-1700).
2	Customs and immigration	By arrangement.
3	Health and sanitation	Limited.
4	AIS Briefing Office	No briefing facilities available.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	Not available.
7	ATS	See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	As AD hours.
10	Security	As AD hours.
11	De-icing	
12	Remarks	Use of aerodrome PPR by website www.swansea-airport.wales or same day by telephone on 01792-687042. Permission to use aerodrome may be withdrawn during times that adverse weather conditions prevail. Flying by local aircraft and emergency service helicopters may occur outside published hours.

EGFH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Limited, by prior arrangement.
2	Fuel and oil types	AVGAS
3	Fuelling facilities/capacity	AVGAS 5000 LT Tank and Fixed Pump.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited, by arrangement.
6	Repair facilities for visiting aircraft	Limited.
7	Remarks	

EGFH AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in vicinity.
2	Restaurants	On aerodrome. Cafe in terminal building.
3	Transportation	Taxis, Car hire.

4	Medical facilities	Limited First Aid.
5	Bank and Post Office	
6	Tourist Office	Limited during aerodrome hours.
7	Remarks	

EGFH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	Crash Cover on request contact aerodrome operator.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGFH AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGFH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON 1 Surface: Asphalt PCN 12/F/C/Y/T APRON 2 Surface: Concrete PCN 15/R/C/Y/T
2	Taxiway width, surface and strength	Taxiway A: 10 M Surface: Asphalt PCN 8/F/C/Y/T Taxiway B: 19 M Surface: Asphalt Taxiway C: 10 M Surface: Asphalt PCN 8/F/C/Y/T Taxiway D: 5 M Surface: Asphalt PCN 8/F/C/Y/T
3	Altimeter checkpoint location and elevation	Hold B1 275 FT - Hold B2 267 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	The concrete section of the apron slopes from NW to SE up to a maximum gradient of 2.93%. Taxiway adjoining the eastern edge of the apron is provided for access to Hangar 1 only, and is not available to aircraft that require use of a licensed aerodrome.

EGFH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Taxiway guidelines and visual docking. Yellow taxiway centre-line - no visual docking. Parking Guidance System. Marshaller available on request.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 04/22: Runway markings, TDZ markings, Threshold, designators, displaced threshold arrows. Taxiway marking aid(s): Yellow centre-line and holding positions.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Three WDI 513601.07N 0040420.33W; 513609.36N 0040352.96W; 513623.35N 0040352.25W.

EGFH AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFH3499) 22/APPROACH 04/ TAKE-OFF	BUSH	513643.11N 0040339.85W	328 FT		No	
(EGFH3456) 22/APPROACH 04/ TAKE-OFF	FENCE	513638.77N 0040343.73W	308 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFH3455)	FENCE	513638.91N 0040344.09W	309 FT		No	

EGFH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	CARDIFF WEATHER CENTRE
2	Hours of service MET Office outside hour	9 hours.
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	

EGFH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
04	036.31°	1351 x 30 M	RWY surface: Concrete PCN 15/R/C/Y/T	513601.13N 0040425.26W 173.7 FT	THR 261.1 FT	
22	216.32°	1351 x 30 M	RWY surface: Concrete PCN 15/R/C/Y/T	513633.98N 0040346.49W 173.7 FT	THR 295.1 FT	
10	096.32°	857 x 18 M	RWY surface: Asphalt PCN 12/F/C/Y/T	513604.22N 0040432.85W 173.7 FT	THR 255.8 FT	
28	276.33°	857 x 18 M	RWY surface: Asphalt PCN 12/F/C/Y/T	513601.39N 0040351.84W 173.7 FT	THR 254.9 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 04 Runways 04/22 and 10/28 have undulating surface.
						RWY 22 Threshold displaced by 91 M.
						RWY 10 Threshold displaced by 33 M.
						RWY 28 Threshold displaced by 30 M.

EGFH AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
04	1199 M	1199 M	1199 M	1200 M	
22	1199 M	1199 M	1199 M	1200 M	
10	799 M	799 M	799 M	824 M	
28	799 M	799 M	799 M	794 M	

EGFH AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGFH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 513623.37N 0040353.04W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	

5	Remarks	

EGFH AD 2.16 HELICOPTER LANDING AREA

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EGFH AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
SWANSEA ATZ A circle, 2 NM radius, centred at 513619N 0040404W on longest notified runway (04/ 22)	Upper limit: 2000 FT AGL Lower limit: SFC	G	SWANSEA RADIO English	3000 FT		

EGFH AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	SWANSEA RADIO	119.705 A/G frequency.			Mon-Sun 0900-1800 (0800-1700).	ATZ hours coincident with A/G hours and when notified by NOTAM.

EGFH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGFH AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of the aerodrome is subject to the provisions of a document entitled Swansea Airport Limited, Conditions of Use. A copy of this document may be obtained on request to the Airport Manager, at the address specified at AD 2.2.
b) Aerodrome not available to aircraft unable to communicate via radio with the A/G station.
c) Information and/or instructions from the Airport Manager may be relayed via A/G. Such messages will be prefixed 'Message from the aerodrome authority...'. Compliance with any relayed instruction is mandatory.
d) Permission to use the aerodrome either to land or depart, may be withdrawn without notice. Withdrawal of permission may occur due to prevailing weather conditions, if it is considered that the requirements of the airport's Safety Management System cannot be met.

2 GROUND MOVEMENT

a) All aircraft to call for start.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The carriage of Dangerous Goods, as specified by the Air Navigation (Dangerous Goods) Regulations 2002, is prohibited unless written approval has been issued by the Airport Manager or nominated deputy.
b) Each aircraft commander is responsible for the safety of his/her passengers and other crew members. To ensure the safety of passengers and crew members, the aircraft commander or other competent crew member is to supervise and escort passengers whilst airside.
c) Smoking and use of mobile phones whilst airside is strictly prohibited.

d) Except for passengers and other persons that are being escorted, the wearing of High Visibility clothing is mandatory for all persons permitted airside access.

5 HELICOPTER OPERATIONS

a) Helicopter landing spots situated on Apron 1 and adjacent to Holding Point B1.

6 USE OF RUNWAYS

a) Runway 10/28 is restricted to aircraft with MTOW 5700 KG or less.

7 TRAINING

a) Use of the aerodrome by training flights is subject to approval, which may be withdrawn without prior notice. Issue of approval is conditional upon training flights not causing delays to other aircraft and not causing movement area or airspace congestion.

EGFH AD 2.21 NOISE ABATEMENT PROCEDURES

a) Aircraft are to be operated in a manner to cause least disturbance in areas surrounding the aerodrome.

EGFH AD 2.22 FLIGHT PROCEDURES

1 RADIO COMMUNICATION FAILURE PROCEDURES

a) If a radio communications failure is experienced after establishment of RTF contact, a standard overhead joining procedure is to be flown for the notified runway in use and circuit direction. If RTF contact has not been established, unless an emergency is experienced which requires immediate landing, the ATZ is not to be entered, and a diversion made to a suitable alternate aerodrome.

2 CIRCUITS

a) Unless notified by A/G that parachute descents are in progress a standard overhead circuit joining procedure must normally be flown for the notified runway in use and circuit direction. However, a straight-in approach to the notified runway in use may be flown if ‘Swansea Radio’ notify that there is no reported traffic to affect this course of action.
b) Unless otherwise notified by ‘Swansea Radio’ standard circuit directions are as follows: Runway 10 and 22 - Right Hand; Runway 28 and 04 - Left Hand.

3 FREE-FALL PARACHUTING PROCEDURES

a) Free-fall parachuting takes place overhead the aerodrome. ENR 5.5 refers. A/G will notify when parachute descents are taking place.
b) Subject to the notified runway in use, one of two parachute landing areas will be used. When Runway 04/22 is in use, the Southern Parachute Landing Area (PLA), located in the south eastern corner of the aerodrome, south of Runway 28 threshold, will be used. When Runway 10/28 is in use, the Northern PLA, located in the northeast corner of the aerodrome, north of Taxiway A, will be used.
c) Arriving aircraft that have not entered the ATZ are advised to remain outside until notified by A/G that all parachutes have landed. Any aircraft within the ATZ on final approach, requiring to go around, should climb straight ahead and then conform to the notified circuit direction.

EGFH AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGFH AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGFH-2-1

EGFH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

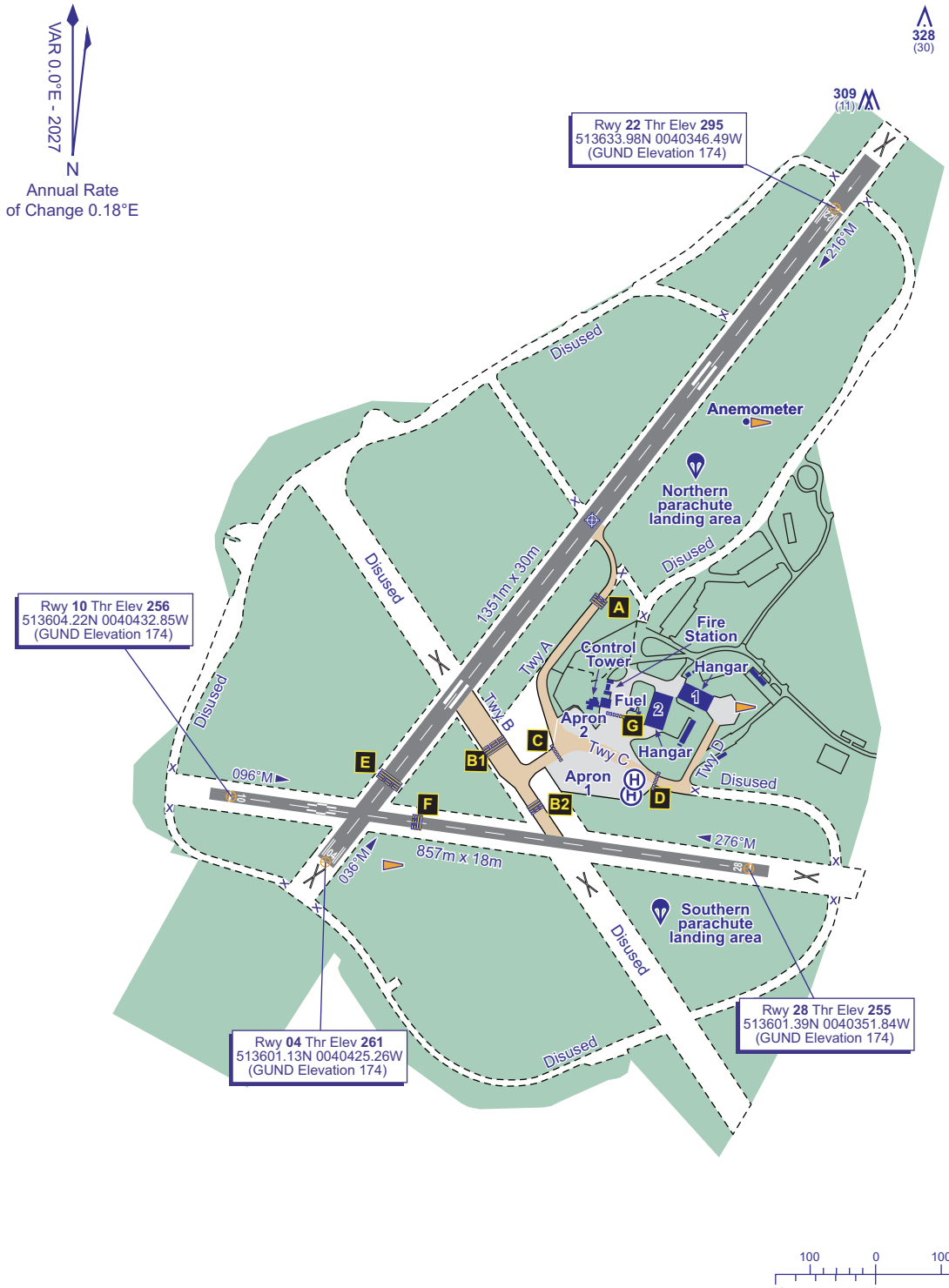
ARP 513618N 0040405W

AD ELEV 298FT

SWANSEA
EGFH

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**328** (29)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**PCN**
RWY 04/22	Concrete	15/R/C/Y/T
RWY 10/28	Asphalt	12/F/C/Y/T
Twy A/B/C/D	Asphalt	8/F/C/Y/T
Apron 1	Asphalt	12/F/C/Y/T
Apron 2	Concrete	15/R/C/Y/T



COM		
A/G	119.705	SWANSEA RADIO

CHANGE (10/25): MAG INFO. TWY C ALIGNMENT. RUNWAY MARKINGS EDITORIAL.

AERO INFO DATE 17 JUL 25

AD 2-EGFH-2-1

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EGBM — TATENHILL

EGBM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBM — TATENHILL

EGBM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 524851N Long: 0014553W Mid point of Runway 08/26
2	Direction and distance from city	4 NM W of Burton-on-Trent.
3	Elevation / Reference temperature / Mean Low Temperature	439 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.18°W (2022) / 0.20°E
6	AD Administration Address Telephone	TATENHILL AVIATION LIMITED Tatenhill Aerodrome, Newborough Road, Need wood, Burton-on-Trent , Staffs, DE13 9PD. 01283-575283
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGBM AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600).
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. Night flying by arrangement.

EGBM AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL D100, 15W/50
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGBM AD 2.5 PASSENGER FACILITIES

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EGBM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGBM AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGBM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt WESTERN APRON Surface: Asphalt (27 x 70 M).
2	Taxiway width, surface and strength	Taxiway NORTH: 8 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGBM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGBM AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
08/APPROACH 26/TAKE-OFF	Pylons	524827.50N 0014810.90W	493 FT		No	HT Cables are running Northwest/Southeast joining these pylons.
08/APPROACH 26/TAKE-OFF	Pylons	524819.40N 0014805.00W	496 FT		No	HT Cables are running Northwest/Southeast joining these pylons.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Mast	524848.10N 0014531.04W	499 FT		Yes	

EGBM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGBM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
03		630 x 18 M	RWY surface: Asphalt			
21		630 x 18 M	RWY surface: Asphalt			
08	073.39°	1190 x 28 M	RWY surface: Asphalt	524845.13N 0014623.55W	THR 412.0 FT	
26	253.41°	1190 x 28 M	RWY surface: Asphalt	524856.10N 0014522.81W	THR 438.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 03 Unlicensed.
						RWY 21 Unlicensed.
						RWY 08 Threshold displaced by more than 120 M. A significant portion of the runway is not visible from the thresholds of Runways 26 or 08. The grass taxiway is normally only available during the summer.
						RWY 26 Threshold displaced by 60 M. A significant portion of the runway is not visible from the thresholds of Runways 26 or 08. The grass taxiway is normally only available during the summer.

EGBM AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
08	1190 M	1190 M	1190 M	1190 M	
26	1190 M	1190 M	1190 M	1190 M	

EGBM AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
26	Runway lighting available by special arrangement only.		APAPI Left/3.5° 21 FT 93 M						

EGBM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGBM AD 2.16 HELICOPTER LANDING AREA

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EGBM AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
TATENHILL ATZ A circle, 2 NM radius, centred at 524851N 0014553W on longest notified runway (08/ 26)	Upper limit: 2000 FT AGL Lower limit: SFC	G	TATENHILL RADIO English	6000 FT		

EGBM AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	TATENHILL RADIO	124.080 A/G frequency.			0900-1700 (0800-1600).	ATZ hours coincident with A/G hours.

EGBM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGBM AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Not available to aircraft unable to communicate by radio.
b) Not available to weight shift microlights.

c) Runway 03/21 is available only with permission of the aerodrome operator. Pilot must have or be familiar with operating procedures for this Runway.

2 GROUND MOVEMENT

a) Grass taxiway and parking usually available during summer only.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Runway 03/21 is unlicensed and not available to operators requiring a licensed runway.

5 HELICOPTER OPERATIONS

a) Helicopters refuelling area is marked by an 'H', located to the east of the fuel pumps. If unavailable helicopters are to refuel in the yellow box area adjacent to the fuel pumps.
b) The following circuit directions apply for helicopter when the specified runways are in use.

1. Helicopters approach north of centreline.

i. Runway 08 - LH.
ii. Runway 26 - LH.

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGBM AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGBM AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Fixed wing to make standard overhead join, helicopters approach north of centreline.
b) The following circuit directions apply for fixed wing aircraft when the specified runways are in use:

1. Fixed wing standard overhead join at 2000 FT.

i. Runway 08 - LH.
ii. Runway 26 - LH.

2 COMMUNICATION

a) Pilots should note the proximity of the Birmingham and Nottingham East Midlands CTA and are advised to call Birmingham or Nottingham East Midlands for traffic information before working Tatenhill Radio.

EGBM AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBM AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO

EGBM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 524851N 0014553W

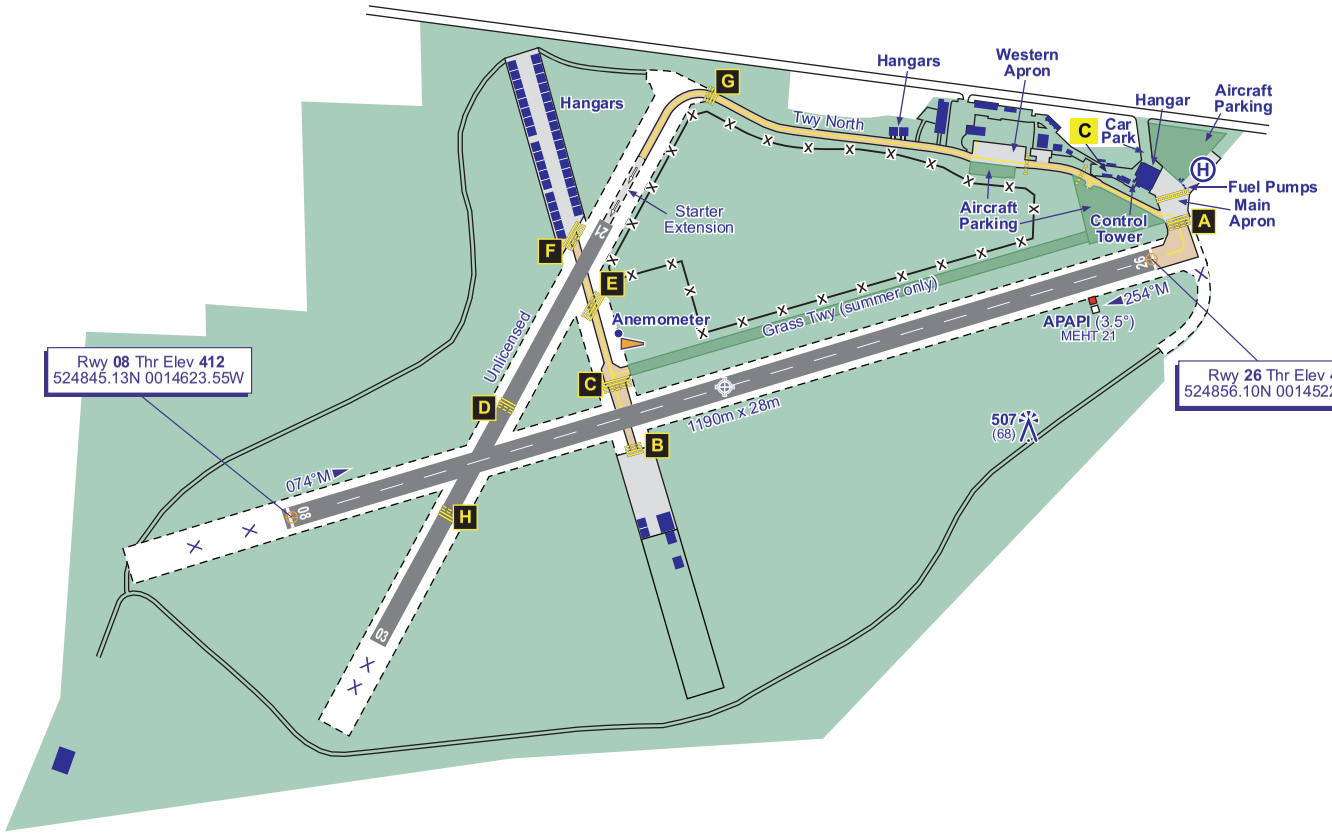
AD ELEV 439FT

TATENHILL
EGBM

BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**507** (68)

100 0 100 200 300 m
500 0 500 1000 ft

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**	**ELEVATION**
RWY 08/26	Asphalt	-	-
Main Apron	Asphalt	-	-
Western Apron	Asphalt	-	-
TWY North	Asphalt	-	-



VAR 0.2°W - 2022
N
Annual Rate of Change 0.20°E

COM		
A/G	124.080	TATENHILL RADIO
LIGHTING		
Runway lighting available by special arrangement only		

CHANGE (10/24): NDB TNL REMOVED. TAXIWAYS. UNLICENCED RUNWAY DESIGNATORS. HOLDS. BUILDINGS. THR COORDS. MAG INFO.

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EGNV — TEESSIDE INTERNATIONAL

EGNV AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNV — TEESSIDE INTERNATIONAL

EGNV AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 543033N Long: 0012546W Mid point of Runway 05/23.
2	Direction and distance from city	4.7 NM SE of Darlington
3	Elevation / Reference temperature / Mean Low Temperature	120 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	161 FT
5	Magnetic Variation / Annual Change	0.65°E (2027) / 0.19°E
6	AD Administration Address Telephone Telefax	TEESSIDE INTERNATIONAL AIRPORT LTD Teesside International Airport Ltd, Darlington, Co Durham DL2 1LU. 01325-332811 01325-332810
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGNV AD 2.3 OPERATIONAL HOURS

1	AD Administration	Sat-Mon 0600-2200 (0500-2100); Tue-Fri 0400-2200 (0300-2100).
2	Customs and immigration	Selective attendance. No hours notified.
3	Health and sanitation	Port Health Authority on request from handling agents
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	As AD hours.
10	Security	H24
11	De-icing	As AD hours.
12	Remarks	Extensions available as per landing fees and charges via the Airport Duty Manager, Tel: 01325-331008.

EGNV AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Available. Nearest railway siding, Dinsdale 1.3 NM
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	500,000 LT, AVTUR JET A-1. 30,000 LT, AVGAS 100LL.
4	De-icing facilities	By arrangement with Teesside International Airport, 01325-331008.
5	Hangar space for visiting aircraft	By arrangement with the Airport Duty Manager
6	Repair facilities for visiting aircraft	By arrangement. Draken 01325-332322.
7	Remarks	Available during normal hours or by arrangement. JET A-1 and AVGAS supplied by Teesside International Airport Ltd on behalf of PHILLIPS 66. All visiting aircraft are subject to mandatory handling and PPR. Operators are requested to contact one of the two handling agents: Teesside International Airport: Tel: 01325-331008; Email: dutymanagers@teessideinternational.com. Jet Centre: Tel: 0330-4407700; Email: jetcentre@willisaviation.com.

EGNV AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels within 5 NM.
2	Restaurants	Cafe.
3	Transportation	Buses, taxis and trains. Nearest railway station, Darlington train station (6.5 miles).
4	Medical facilities	Limited first aid. First aid room in terminal.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGNV AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A6 RFF Category 6 is for scheduled operators utilising aircraft with seating capacity of up to 100 seats. Aircraft operating above 100 seats capacity will require prior approval. Fire cover up to and including Category 8 available with prior notice.
2	Rescue equipment	Cutting and lifting equipment available.
3	Capability for removal of disabled aircraft	MTWA 203,600 KG. Contact 01325-331008.
4	Remarks	

EGNV AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, Chemical de-icing, Sanding/Gritting.
2	Clearance priorities	Runway 05/23. Central axis taxiway. Main apron. Other taxiways.
3	Remarks	Winter operations and surface updates contact Airport Duty Manager 01325-331008.

EGNV AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	EASTERN Surface: Concrete PCN 6/R/D/W/T MAIN Surface: Concrete PCN 47/R/D/W/T WESTERN Surface: Asphalt PCN 13/F/D/X/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 15 M Surface: Concrete and asphalt PCN 30/F/C/X/T Taxiway BRAVO: 23 M Surface: Concrete and asphalt PCN 37/F/D/X/T Taxiway CHARLIE: 15 M Surface: Concrete and asphalt PCN 30/F/D/X/T Taxiway DELTA: 15 M Surface: Concrete and asphalt PCN 30/F/D/X/T
3	Altimeter checkpoint location and elevation	Terminal Apron 120 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGNV AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Stands 1L, 1, 1R, 2, 3, 4, 5 and 5R are marshalled nose-in parking. Follow yellow painted guide lines onto stand.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Runway designator, threshold, centre-line and touchdown zone markings. Runway light(s): Runway edge, lead off/on centre-line, at Bravo, Charlie and Delta, threshold and wingbar lighting. Taxiway marking aid(s): Yellow centre-line marking on all taxiways and in certain location supplemented with green reflective studs. Taxiway light(s): Green centre-line lighting is provided on all taxiways. Runway guard lights at all taxiway entrances to the runway and illuminated runway and taxiway holding position signs. Apron Floodlighting.
3	Stop bars and runway guard lights (if any)	Alpha 1, Bravo, Charlie, Delta 2.
4	Other runway protection measures	
5	Remarks	WDI (LGTD) - 543017.93N 0012623.52W, 543047.66N 0012506.09W.

EGNV AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
INTENTIONALLY BLANK					

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNV1972)	WIND TURBINE	543426.73N 0013004.57W	689 FT	410 FT	No	
(EGNV1973)	WIND TURBINE	543353.51N 0012957.13W	653 FT	410 FT	No	
(EGNV1253)	TREE	543133.85N 0012807.17W	252 FT	81 FT	No	
(EGNV1125)	MAST	543111.72N 0013037.47W	334 FT	163 FT	Yes Solid Red	
(EGNV1373)	MAST	543110.42N 0012647.40W	242 FT	116 FT	Yes Solid Red	
(EGNV1843)	PYLON	543105.46N 0012156.55W	270 FT	190 FT	No	
(EGNV1255)	TREE	543049.05N 0012806.84W	226 FT	75 FT	No	
(EGNV1240)	TREE	543041.09N 0012822.55W	225 FT	70 FT	No	
(EGNV1264)	TREE	543032.95N 0012751.46W	220 FT	96 FT	No	
(EGNV1223)	TREE	543031.48N 0012834.80W	229 FT	65 FT	No	
(EGNV1226)	TREE	543014.43N 0012834.65W	228 FT	73 FT	No	
(EGNV1235)	TREE	543010.55N 0012829.58W	241 FT	92 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNV1233)	TREE	543008.89N 0012829.85W	231 FT	83 FT	No	
(EGNV1202)	TREE	543006.67N 0012859.12W	228 FT	57 FT	No	
(EGNV1188)	TREE	543000.32N 0012906.25W	230 FT	56 FT	No	
(EGNV1179)	TREE	542949.71N 0012909.56W	234 FT	63 FT	No	
(EGNV1209)	TREE	542936.23N 0012854.39W	226 FT	64 FT	No	
(EGNV1865)	PYLON	542927.21N 0012137.39W	287 FT	169 FT	No	
(EGNV1239)	TREE	542909.10N 0012825.36W	225 FT	84 FT	No	
(EGNV1228)	TREE	542904.69N 0012832.09W	226 FT	71 FT	No	
(EGNV1242)	TREE	542901.03N 0012822.75W	229 FT	72 FT	No	

EGNV AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	H24.
8	Supplementary equipment available for providing information	Fax.
9	ATS units provided with information	TEESSIDE INTERNATIONAL
10	Additional information (limitation of service, etc.)	ATIS Telephone number: 01325-331054. AUTO METAR produced outside aerodrome opening hours.

EGNV AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05	047.44°	2291 x 45 M	RWY surface: Asphalt PCN 70/F/C/W/T	543008.03N 0012632.74W 160.9 FT	THR 114.9 FT TDZ 120.1 FT	1: 7516
23	227.46°	2291 x 45 M	RWY surface: Asphalt PCN 70/F/C/W/T	543058.10N 0012459.01W 160.7 FT	THR 116.3 FT TDZ 117.0 FT	1: 7516

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	285 x 150 M					RWY 05 Strip Dimensions: 2411 x 280 M. OFZ: Yes.
	197 x 150 M					RWY 23 Strip Dimensions: 2530 x 280 M. OFZ: Yes.

EGNV AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	2291 M	2576 M	2291 M	2291 M	
23	2291 M	2488 M	2291 M	2290 M	
05	1770 M	2055 M	1770 M		Take-off from intersection with Hold Charlie.
05	997 M	1282 M	997 M		Take-off from intersection with Hold Bravo.
23	1355 M	1552 M	1355 M		Take-off from intersection with Hold Bravo.

EGNV AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	Coded centre-line with four crossbars. 605 M Light intensity high	Green	PAPI Left/3° 53 FT 312 M		Coded centre-line 30 M spacing Light intensity high	HI bi-directional with LI omni-directional component	Red		EDGE: Runway edge lighting is 60 M gauge along the runway designated edge.
23	Coded centre-line with five crossbars. 777 M Light intensity high	Green	PAPI Left/3° 52 FT 345 M		Coded centre-line 30 M spacing Light intensity high	HI bi-directional with LI omni-directional component	Red		EDGE: Runway edge lighting is 60 M gauge along the runway designated edge.

EGNV AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 543048.41N 0012506.39W (LGTD), 543018.15N 0012625.25W (LGTD), 543047.36N 0012507.38W (LGTD). Digital wind indicators at glidepaths of Runways 05 and 23.
3	TWY edge and centre line lighting	CL: Green centreline lighting is provided on all taxiways.
4	Secondary power supply/switch-over time	Yes/ Less than 15 seconds, in LVPs a maximum 1 second switchover.
5	Remarks	Obstacle lighting.

EGNV AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	Helicopters land on the main runway or directly on stands.

EGNV AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
TEESSIDE INTERNATIONAL CTR 544050N 0011909W thence clockwise by the arc of a circle radius 11 NM centred on 543033N 0012546W to 543328N 0010734W - 542541N 0012211W thence clockwise by the arc of a circle radius 5.3 NM centred on 543033N 0012546W to 543303N 0013347W - 544050N 0011909W	Upper limit: 6000 FT ALT Lower limit: SFC	D	TEESSIDE APPROACH English	6000 FT		
TEESSIDE INTERNATIONAL ATZ A circle, 2.5 NM radius, centred at 543033N 0012546W on longest notified runway (05/23)	Upper limit: 2000 FT AGL Lower limit: SFC	D	TEESSIDE APPROACH English	6000 FT		Airspace Class: D/G.

EGNV AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	TEESSIDE APPROACH	118.855 DOC 42 NM/ 19,000 FT.			Sat-Mon 0600-2200 (0500-2100); Tue-Fri 0400-2200 (0300-2100).	ATZ hours coincident with Approach hours. VDF 543100.56N 0012519.38W On AD. Bearing accuracy no better than Class A. VDF not available for en-route navigation.
TWR	TEESSIDE TOWER	119.805 DOC 25 NM/4000 FT.			Sat-Mon 0600-2200 (0500-2100); Tue-Fri 0400-2200 (0300-2100).	VDF 543100.56N 0012519.38W On AD. Bearing accuracy no better than Class A. VDF not available for en-route navigation.

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
RADAR	TEESSIDE DIRECTOR	128.855 DOC 42 NM/ 19,000 FT.			As directed by ATC.	LARS is provided 0800-1800 (0700-1700). VDF 543100.56N 0012519.38W On AD. Bearing accuracy no better than Class A. VDF not available for en-route navigation. TEESSIDE RADAR Teesside Radar service provision may be reduced due to degraded primary surveillance performance within an arc of 330-004 degrees Mag from the ARP.
	TEESSIDE RADAR	118.855 DOC 42 NM/ 19,000 FT.			Sat-Mon 0600-2200 (0500-2100); Tue-Fri 0400-2200 (0300-2100).	
ATIS	TEESSIDE INFORMATION	132.380 DOC 60 NM/ 20,000 FT.			Sat-Mon 0600-2200 (0500-2100); Tue-Fri 0400-2200 (0300-2100).	
OTHER	TEESSIDE FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNV AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.65°E (2027)	ITSE	108.500 MHz	HO	543104.34N 0012447.32W		(RWY 05)
ILS/GP	ITSE	329.900 MHz	HO	543017.02N 0012625.76W		3° ILS Ref Datum Hgt 52 FT.
ILS/LOC I 0.64°E (2027)	ITD	108.500 MHz	HO	543001.78N 0012644.43W		(RWY 23)
ILS/GP	ITD	329.900 MHz	HO	543048.41N 0012506.39W		3° ILS Ref Datum Hgt 50 FT.
DME	ITSE	22X 108.500 MHz	HO	543029.99N 0012540.96W	137 FT	(RWY 05) On AD. DME freq paired with ILS I-TSE and I-TD. Zero range indicated at THR of Runway 05 and 23.
DME	ITD	22X 108.500 MHz	HO	543029.99N 0012540.96W	137 FT	(RWY 23) On AD. DME freq paired with ILS I-TSE and I-TD. Zero range indicated at THR of Runway 05 and 23.
NDB (L) 0.68°E (2027)	TD	347.500 kHz	HO	543337.87N 0012001.10W		Located at 3.9 DME I-TD. Range 25 NM.

EGNV AD 2.20 LOCAL AERODROME REGULATIONS

1 AERODROME REGULATIONS

a) All aircraft using Teesside International Airport and its facilities are required to have third party liability insurance cover in the sum of at least £500,000 sterling. Proof of this insurance must be available for inspection at any time whilst the aircraft is at Teesside International Airport.
b) Aerobatics and other unusual flight manoeuvres or aerial activities are prohibited within the ATZ unless prior written permission has been obtained from the Managing Director of Teesside International Airport Ltd.
c) Aircrew are to wear high visibility jackets whilst on the aprons and movement areas.
d) Booking out details will not be accepted via RTF.
e) Aerodrome not available to aircraft unable to communicate with ATC by radio.

2 GROUND MOVEMENT

a) All taxiways are 15 M wide, apart from Bravo (central taxiway - 23 M). Aircraft requiring greater width must enter or vacate Runway 05/23 via the Bravo Taxiway.
b) Use by aircraft up to a maximum of 50,000 KG MTWA is strictly regulated by ATC.

3 CAT II/III OPERATIONS

a) Teesside is not equipped for CAT II/III operations, however, Low Visibility Procedures are used to protect CAT 1 operations.
b) Safeguarding commences when the visibility reduces to 1500 M and is expected to decrease, or the cloud ceiling reduces to 300 FT and is expected to decrease.
c) LVPs will commence when the visibility or RVR is 800 M or less, or the cloud ceiling reduces below 200 FT.

4 WARNINGS

a) Deer hazard, aircrews to report any sightings to ATC.
b) Bird concentrations may be present on surrounding agricultural land. Active dispersal methods are employed, however, pilots may occasionally be requested to slightly delay a departure or arrival if any potential hazard persists.
c) Model aircraft flying takes place at Redmarshall, 3.7 NM NE of Teesside Aerodrome from 0930 (0830) to SS. Aircraft will remain within 500 M of the site not above 400 FT AGL. ATC will advise when aircraft between 7 KG and 20 KG are operating.
d) A HEMS base is located within Teesside CTR/ATZ. The site lies 1.2 NM North East of Runway 23 threshold and 600 M from 23 FAT. Co-ordinates 543130N 0012258W. The helicopter will not lift without permission from ATC.
e) L159 Fast Jets may operate inside Class D Airspace in excess of 250 KT IAS with ATC permission.
f) Caution - on approach to Runway 23, road lights on adjacent road may cause distraction.

5 HELICOPTER OPERATIONS

a) All helicopters to integrate into traffic pattern/circuit. Training is PPR from ATC, Tel: 01325-331020. There is no dedicated training area.

6 USE OF RUNWAYS

a) Runway 05/23 shall be accessed by Taxiways Alpha, Bravo, Charlie and Delta.
b) Hold C is situated north side approximately 550 M from 05 threshold. Pilots vacating the runway at Hold C must establish the aircraft on and follow the lead off taxi guidance markings and when applicable the centreline lighting and not attempt to cut the corner. ATC will advise when Hold C is available for use.
c) At both ends of Runway 05/23, its width is twice that of the associated edge lights due to extra pavement at the northwest side. Pilots should ensure that they are correctly lined up, especially if take-off is at night, when the runway is contaminated, or in low visibility. The yellow taxiway centre-line marking supplemented with green reflective studs must be followed until alignment with runway centre-line lights is achieved.
d) Aircraft unable to accept the non-standard 15 M wide taxiways should back-track and vacate at taxiway Bravo. See also paragraph 2b above.
e) Aircraft requiring more than runway width (45 M) to turn should turn at the end of the runway where extra width is available. All aircraft turning on the runway should execute gentle turns.

7 TRAINING

a) Operators intending to follow a programme of training flights should obtain prior approval from the Airport Duty Manager: Tel: 01325-331008; Email: dutymanagers@teesideinternational.com.
b) All Airline or aircraft above 5700 KG training flights shall be carried out subject to the following conditions:

   i. Circuits shall be at a height specified by ATC, but at a minimum of 1500 FT AAL;
   ii. circuits will be variable in direction, left or right hand, in accordance with ATC instructions;
   iii. aircraft are to be flown in such a manner as to avoid flight over built up areas in the vicinity of the airport whenever practicable.

c) For aircraft up to 5700 KG MTWA circuit height is 1000 FT AAL.

EGNV AD 2.21 NOISE ABATEMENT PROCEDURES

These procedures may at any time be departed from to the extent necessary for avoiding immediate danger.

a) Operators of all aircraft using the airport shall ensure at all times that aircraft are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.
b) Turbojet and turboprop aircraft approaching Teesside International Airport will be expected to conform to the continuous descent and low power, low drag approach procedures. To facilitate this technique, aircraft should fly within the speed band of 210 KT to 240 KT during the approach phase reducing to the band 160 KT to 180 KT at a range of 12 NM from touchdown and maintain 160 KT from 8 NM to 4 NM DME from touchdown.
c) ATC, in the interests of accurate spacing, as required may request specific speeds and pilots are thus requested to comply with the speed adjustments as promptly as possible within the constraints of their operating procedures. Pilots will advise ATC if circumstances necessitate a speed change for aircraft performance reasons.
d) ATC will advise pilots of an estimate of the track distance to run to touchdown when clearance to descend below the Transition Altitude is given. Further information on the distance to run will be given between this descent clearance and the instruction to turn onto the intercept heading for the ILS localiser.
e) Military aircraft will be vectored for an ILS approach, except during a mass visual recovery in the case of emergency diversions.
f) Ground running of aircraft engines is subject to regulations and control. All ground running must be pre-arranged with the Airport Duty Manager and the appropriate documentation completed. Ground running of aircraft engines is not permitted between 2200-0700 (2100-0600).
g) Aircraft are to avoid overflying nearby villages of Middleton St George, Middleton-One-Row, Yarm and Eaglescliffe wherever practicable.

EGNV AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) The standard routes for aircraft inbound from the Airways System are as follows:

Approach from	Via	Route
South and Southwest	Y250 P18	Leave airways via GASKO to TD NDB
North and Northwest	P18	Leave airways via TILNI to TD NDB

b) Aircraft inbound to EGNV leaving the airways system from the southeast via ERKIT are subject to the availability of derogated services in Class G airspace. Clearance to enter EGNV CTR/CTA should be requested at least 10 minutes before reaching the CTR/CTA boundary.
c) That portion of the transit through Class G airspace, pilots may encounter conflicting VFR traffic.

2 PROCEDURES FOR OUTBOUND AIRCRAFT

a) Aircraft intending to join the airways system should flight plan via the following routes:

Outbound to	Via	Route
South and Southwest	P18 P16	GASKO – POL (below FL 190) GASKO – RIBEL (FL 190 and above)
Southeast	Y250 for L60 and L603	GASKO – Y250 – MAMUL
	N110 for Y70 and L603	ERKIT N110 ABTOS (for Y70) ERKIT N110 DOLAS (for L603)
North and Northwest	P18	TILNI – P18

b) A portion of the transit is through an area of Class G airspace where pilots may encounter conflicting VFR traffic.

3 TRANSIT AIRCRAFT

a) Aircraft wishing to transit controlled airspace should request a crossing clearance at least 10 minutes flying time or 20 NM, whichever is earlier, before reaching the CTR/CTA boundary.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

5 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of, but intending to remain outside Teesside controlled airspace within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Teesside Radar channel, 118.855, are encouraged to select SSR code 7047.

544003N 0015830W - 541152N 0014544W -
541145N 0010539W - 542950N 0003714W -
544655N 0010255W - 544746N 0012813W -
544003N 0015830W.

b) Selection of code 7047 does not imply receipt of an ATC service. Pilots of aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of controlled airspace.
c) Whilst squawking 7047 pilots should be aware that Teesside Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 7047 shall be deselected.
e) Pilot’s who intend to transit Teesside CTR/CTA should still contact Teesside Radar on 118.855 for a service and clearance if required.
f) Pilots operating at adjacent aerodromes such as RAF Leeming, RAF Topcliffe and Sutton Bank BGA are to select the most appropriate frequency to their location and The Rules of the Air Regulations 2015 and be aware that within the MATZ and the area proximate to it, in the notified FMC, may contain high performance military aircraft.

EGNV AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGNV AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNV-2-1
AIRCRAFT PARKING/DOCKING CHART - ICAO
AD 2.EGNV-2-2
CONTROL ZONE and CONTROL AREA CHART
AD 2.EGNV-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNV-5-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 05 - ICAO
AD 2.EGNV-8-1
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 05 - ICAO
AD 2.EGNV-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 05 - ICAO
AD 2.EGNV-8-3
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 23 - ICAO
AD 2.EGNV-8-4
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 23 - ICAO
AD 2.EGNV-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 23 - ICAO
AD 2.EGNV-8-6
INSTRUMENT APPROACH CHART NDB(L) RWY 23 - ICAO
AD 2.EGNV-8-7

EGNV AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

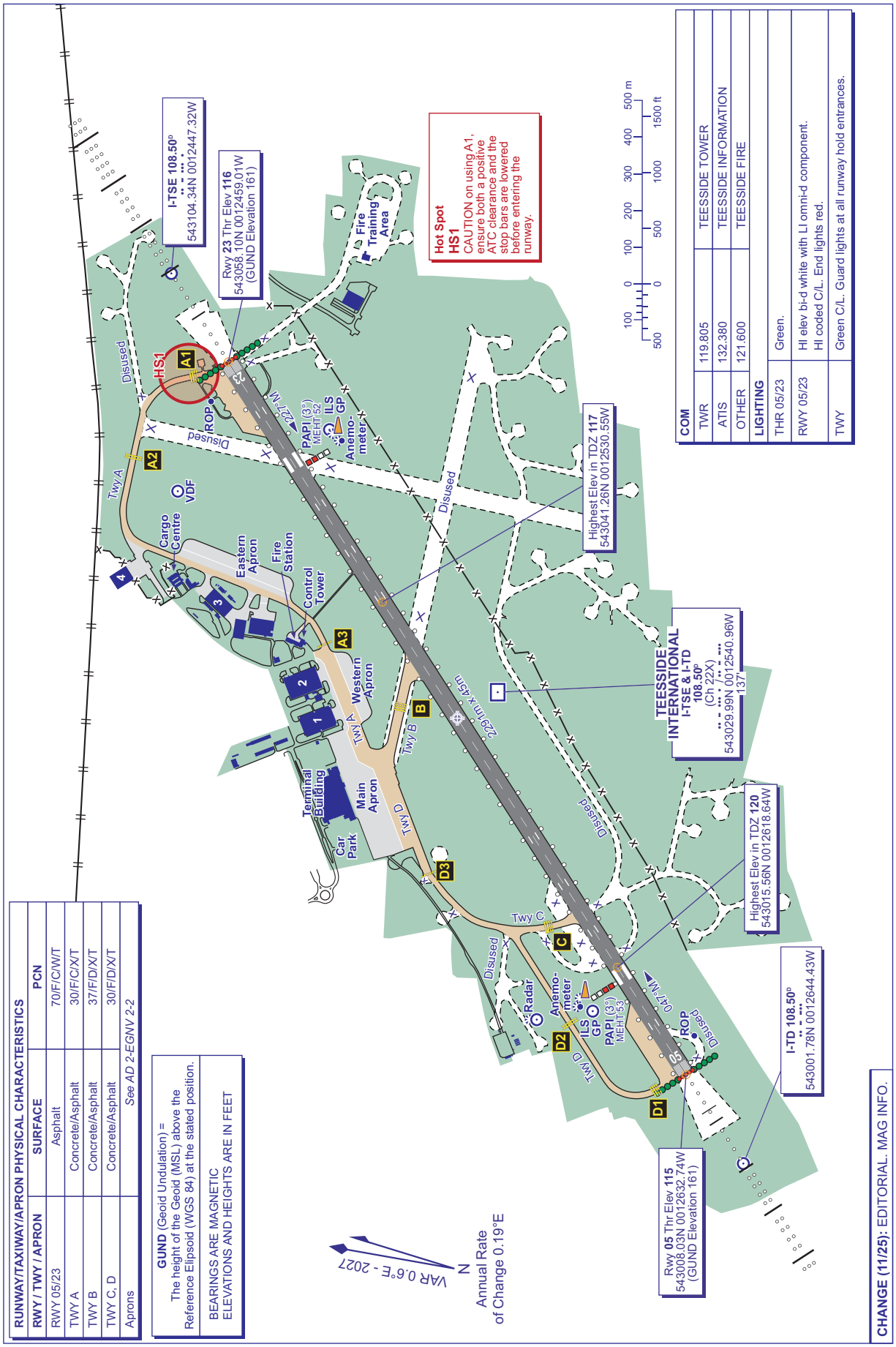
Not applicable

AERODROME CHART - ICAO

TEESSIDE INTERNATIONAL EGNV

AD ELEV 120FT

ARP 543033N 0012546W



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	PCN
RWY 05/23	Asphalt	70/F/C/W/T
TWY A	Concrete/Asphalt	30/F/C/X/T
TWY B	Concrete/Asphalt	37/F/D/X/T
TWY C, D	Concrete/Asphalt	30/F/D/X/T
Aprons	*See AD 2-EGNV 2-2*	

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

CHANGE (11/25): EDITORIAL. MAG INFO.

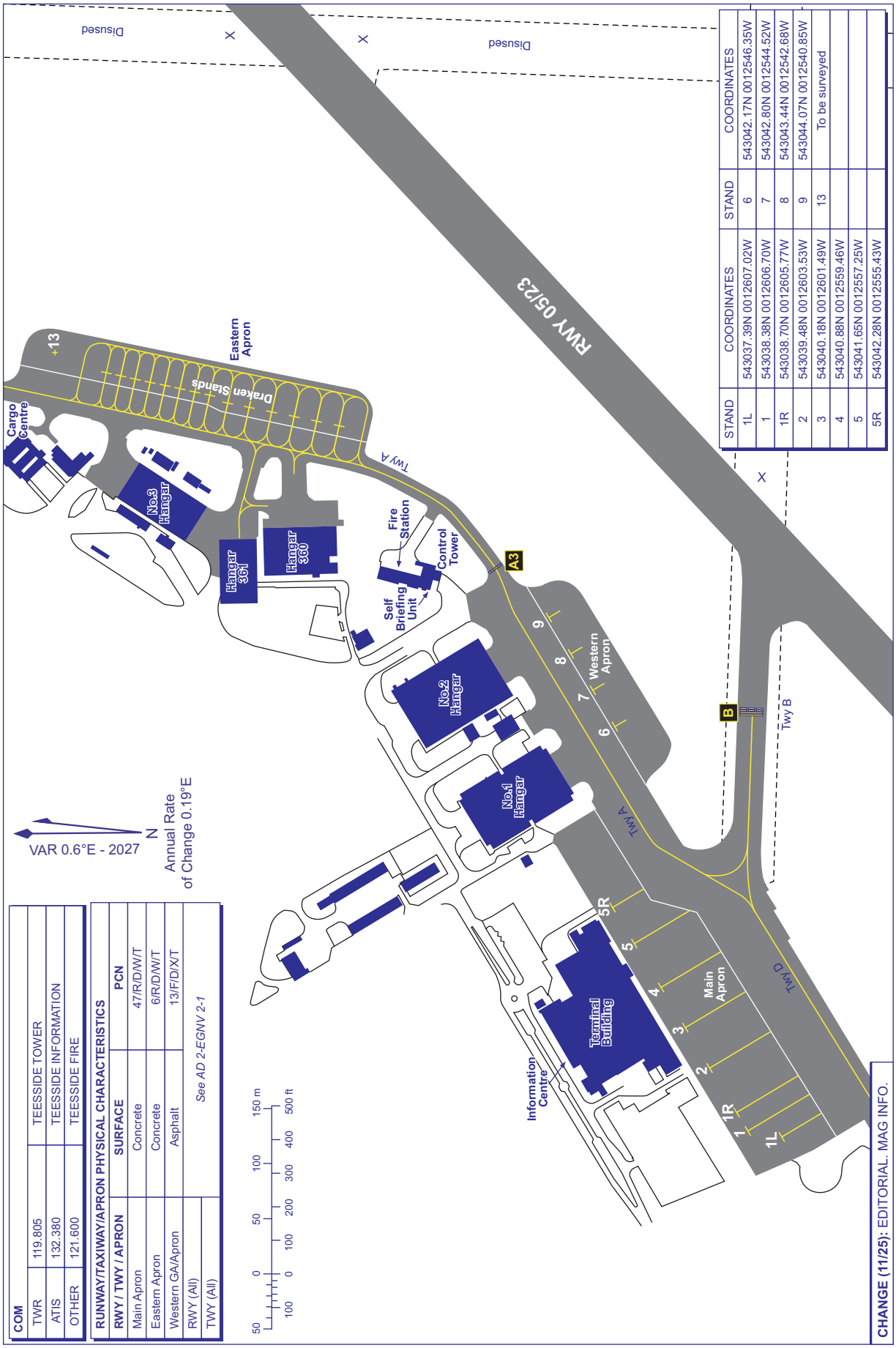
AERO INFO DATE 06 AUG 25

AIRCRAFT PARKING/DOCKING CHART - ICAO

TEESSIDE INTERNATIONAL EGNV

AD ELEV 120FT

ARP 543033N 0012546W



STAND	COORDINATES	STAND	COORDINATES
1L	543037.39N 0012607.02W	6	543042.17N 0012546.35W
1	543038.38N 0012606.70W	7	543042.80N 0012544.52W
1R	543038.70N 0012605.77W	8	543043.44N 0012542.68W
2	543039.48N 0012603.53W	9	543044.07N 0012540.85W
3	543040.18N 0012601.49W	13	To be surveyed
4	543040.88N 0012559.46W		
5	543041.65N 0012557.25W		
5R	543042.28N 0012555.43W		

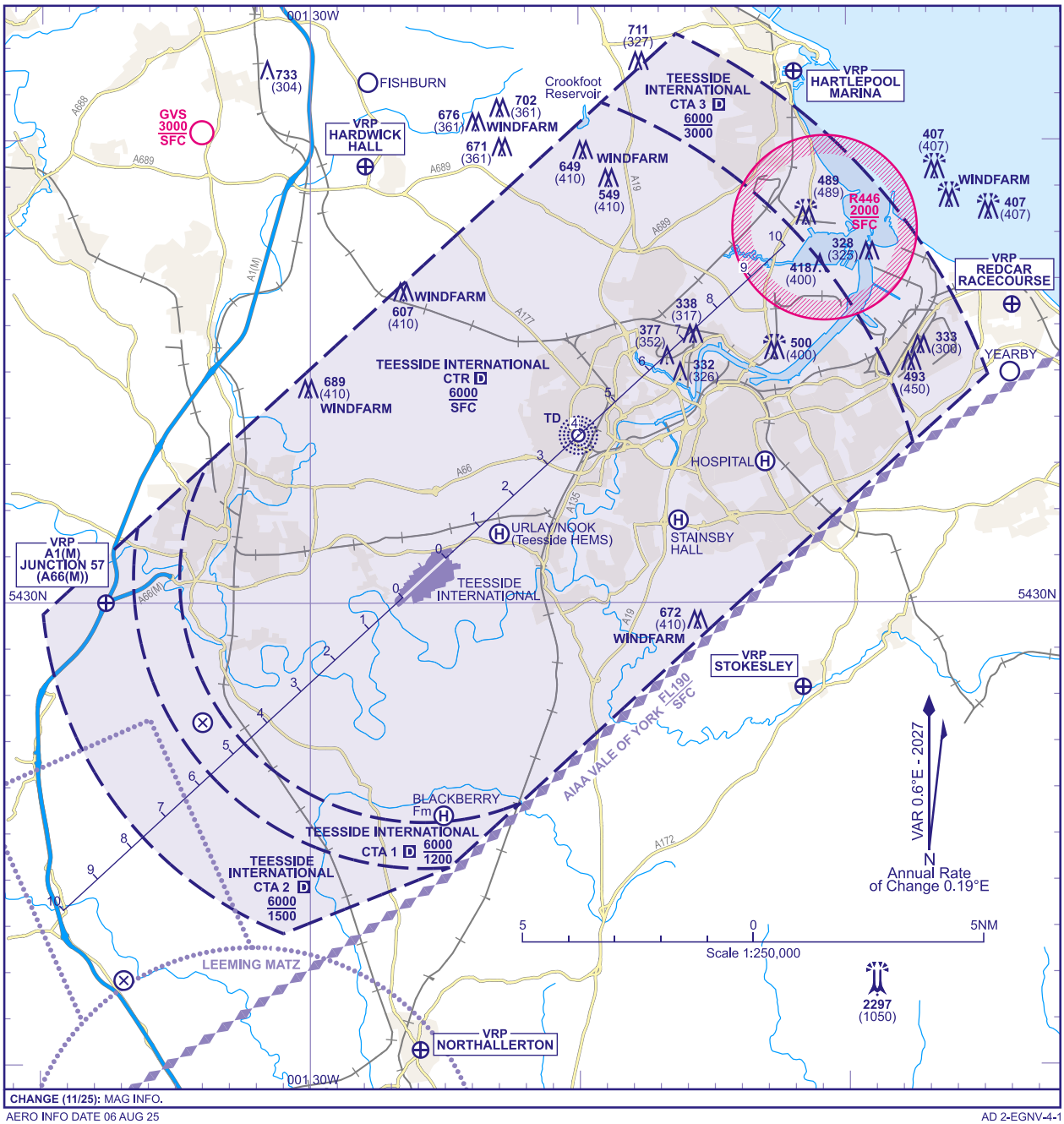
COM		
TWR	119.805	TEESSIDE TOWER
ATIS	132.380	TEESSIDE INFORMATION
OTHER	121.600	TEESSIDE FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
RWY / TWY / APRON	SURFACE	PCN
Main Apron	Concrete	47/R/D/W/T
Eastern Apron	Concrete	6/R/D/W/T
Western GA/Apron	Asphalt	13/F/D/X/T
RWY (All)	*See AD 2-EGNV 2-1*	
TWY (All)		

CHANGE (11/25): EDITORIAL. MAG INFO.

AERO INFO DATE 06 AUG 25

CONTROL ZONE AND CONTROL AREA — TEESSIDE INTERNATIONAL



CHANGE (11/25): MAG INFO.

AERO INFO DATE 06 AUG 25

AD 2-EGNV-4-1

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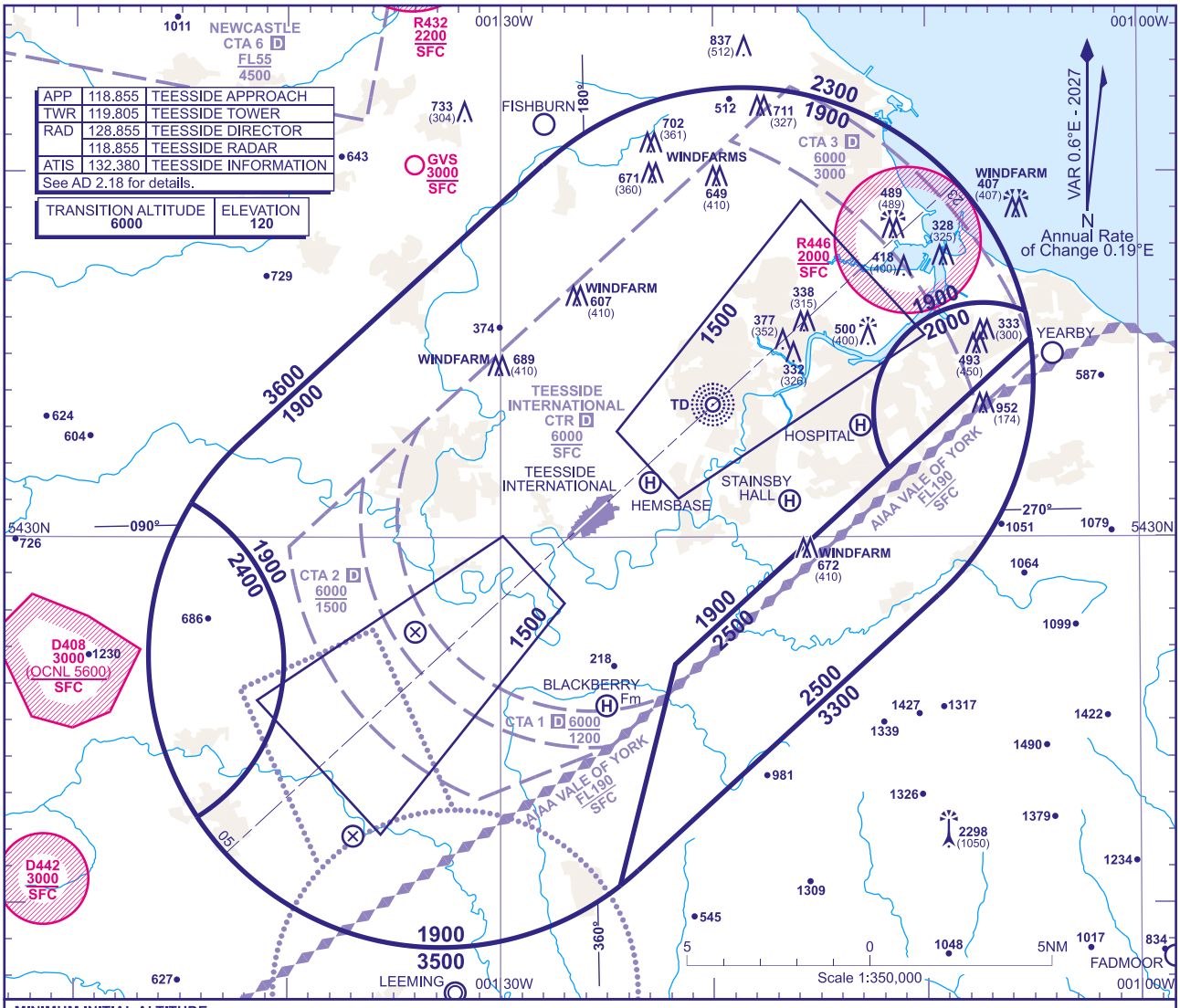
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 982
HEIGHTS IN FEET AGL (328)

TEESSIDE INTERNATIONAL



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1900** in the sector defined by the lateral limits; 543239N 0014208W - 544012N 0012800W thence clockwise by an arc of a circle radius 8NM centred on 543419N 0011841W to 543610N 0010519W thence anticlockwise by an arc of a circle radius 3NM centred on 543324N 0010718W to 543153N 0011145W - 542632N 0012148W - 542029N 0012424W thence clockwise by an arc of a circle radius 8NM centred on 542647N 0013249W to 542221N 0014413W thence anti-clockwise by an arc of a circle radius 5NM centred on 542635N 0014843W to 543056N 0014432W thence clockwise by an arc of a circle radius 8NM centred on 542647N 0013249W to 543239N 0014208W.

b) **2000** in the sector defined by the lateral limits; 543153N 0011145W thence clockwise by an arc of a circle radius 3NM centred on 543324N 0010718W to 543610N 0010519W thence clockwise by an arc of a circle radius 8NM centred on 543419N 0011841W to 543526N 0010504W - 543153N 0011145W.

c) **2400** in the sector defined by the lateral limits; 543056N 0014432W thence clockwise by an arc of a circle radius 5NM centred on 542635N 0014843W to 542221N 0014413W thence clockwise by an arc of a circle radius 8NM centred on 542647N 0013249W to 543056N 0014432W.

d) **2500** in the sector defined by the lateral limits; 542632N 0012148W - 543526N 0010504W thence clockwise by an arc of a circle radius 8NM centred on 543419N 0011841W to 542825N 0010926W - 542054N 0012333W thence clockwise by an arc of a circle radius 8NM centred on 542647N 0013249W to 542029N 0012424W - 542632N 0012148W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **2500**, or last assigned level if higher to **NDB(L) TD**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **NDB(L) TD**†.

† In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of the Aerodrome Reference Point.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. The ATC Surveillance service is provided by Primary and/or Secondary Radar equipment.
7. **This chart may only be used for cross-checking of altitudes assigned when in receipt of an ATC Surveillance service.**
8. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of Instrument approaches other than SRA is cleared to intercept the final approach track.**
9. Detailed description of FIR, UIR, CTA and TMA see ENR 2.1.
10. Detailed description of ATS airspace organized at the aerodrome see AD 2.17.

CHANGE (11/25): MAG INFO UPDATED. NW, NE, SW MSA. MINIMUM INITIAL ALTITUDE.

AERO INFO DATE 06 AUG 25

AD 2-EGNV-5-1

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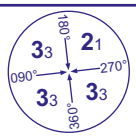
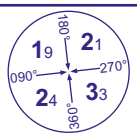
INSTRUMENT APPROACH CHART - ICAO

TEESSIDE INTERNATIONAL
ILS/DME/NDB(L) RWY 05
(ACFT CAT A,B,C,D)



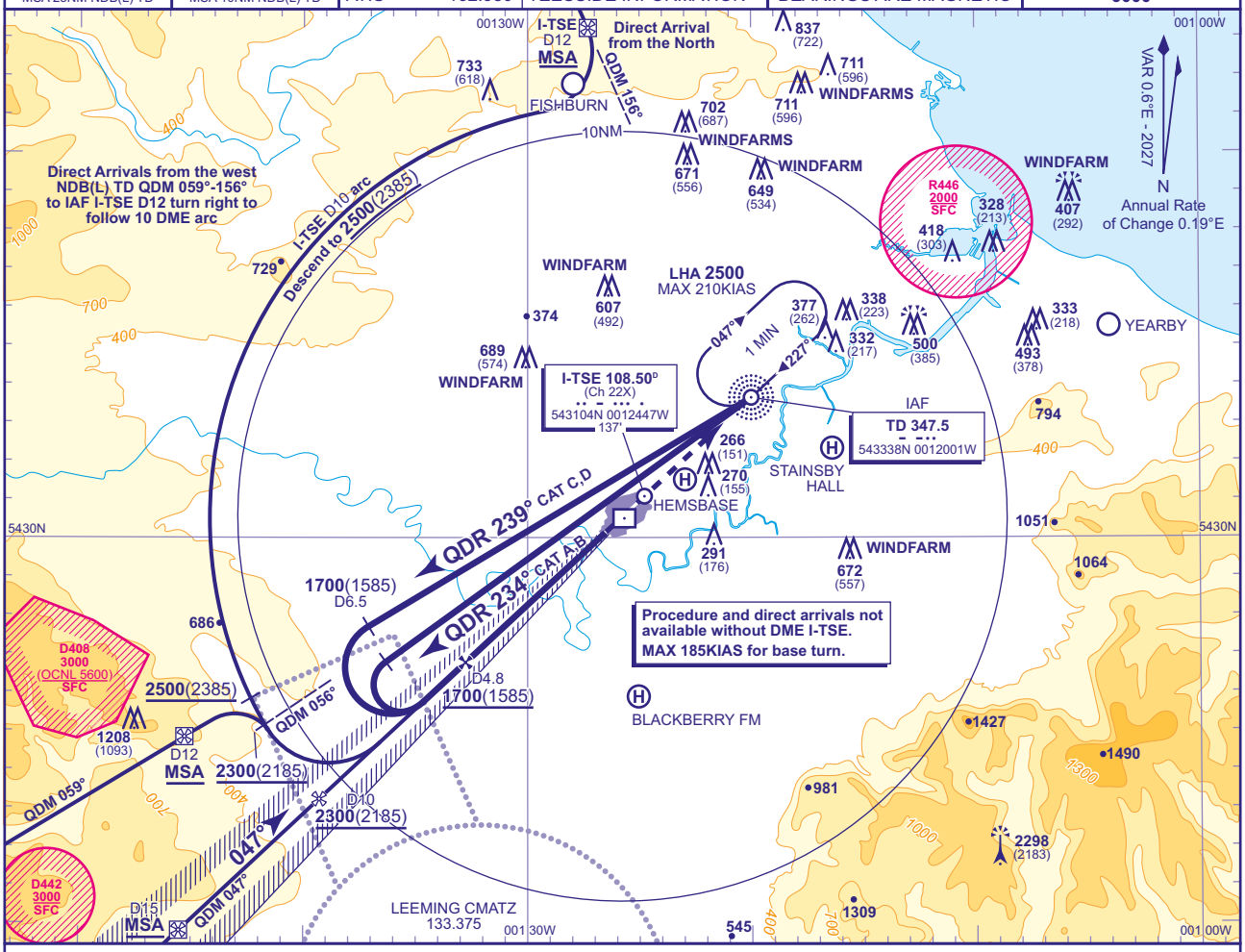
MSA 25NM NDB(L) TD



MSA 10NM NDB(L) TD

APP	118.855	TEESSIDE APPROACH	AD ELEVATION	120	
TWR	119.805	TEESSIDE TOWER	THR ELEVATION	115	
RAD	118.855	TEESSIDE RADAR	OBSTACLE ELEVATION	2298 AMSL (2183) (ABOVE THR)	
RAD	128.855	TEESSIDE DIRECTOR			
ATIS	132.380	TEESSIDE INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**

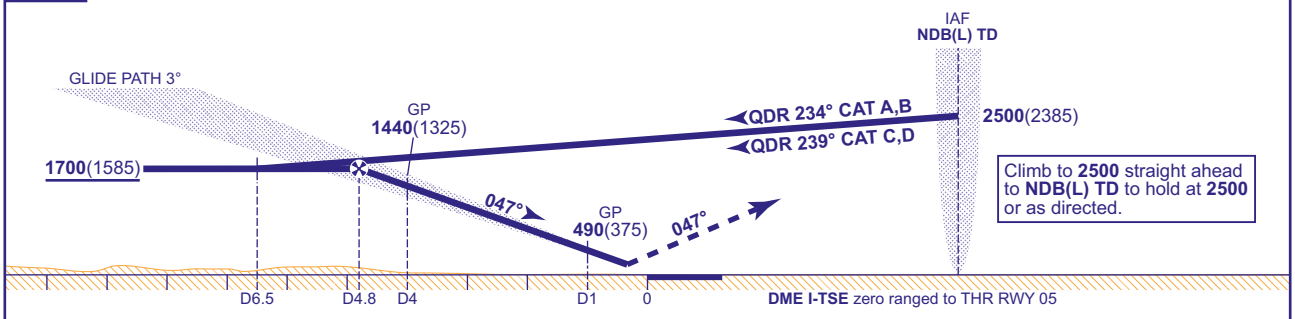


RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-TSE	5	4	3	2	1
ALT(HGT)	**1700**(1585)	**1440**(1325)	**1120**(1005)	**800**(685)	**490**(375)

RDH 52

Arrival **not below MSA**.



Aircraft Category		A	B	C	D
OCA (OCH)	CAT I	**272**(157)	**282**(167)	**292**(177)	**305**(190)
VM(C)OCA (OCH AAL)	Total Area	**590**(470)	**640**(520)	**1050**(930)	**1090**(970)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

NOTE 1 NDB(L) TD and DME I-TSE not co-located beware of potentially confusing DME readings on the outbound leg of base turn procedures
2 Direct/arc arrivals only available with ATC clearance.

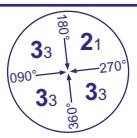
CHANGE (11/25): MSA 25NM SW INCREASE. VM(C)OCA (OCH AAL) CAT C/D INCREASE. MAG VAR. MAG TRACKS.

AERO INFO DATE 12 AUG 25

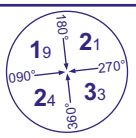
AD 2-EGNV-8-1

INSTRUMENT APPROACH CHART - ICAO

TEESSIDE INTERNATIONAL
LOC/DME/NDB(L) RWY 05
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) TD

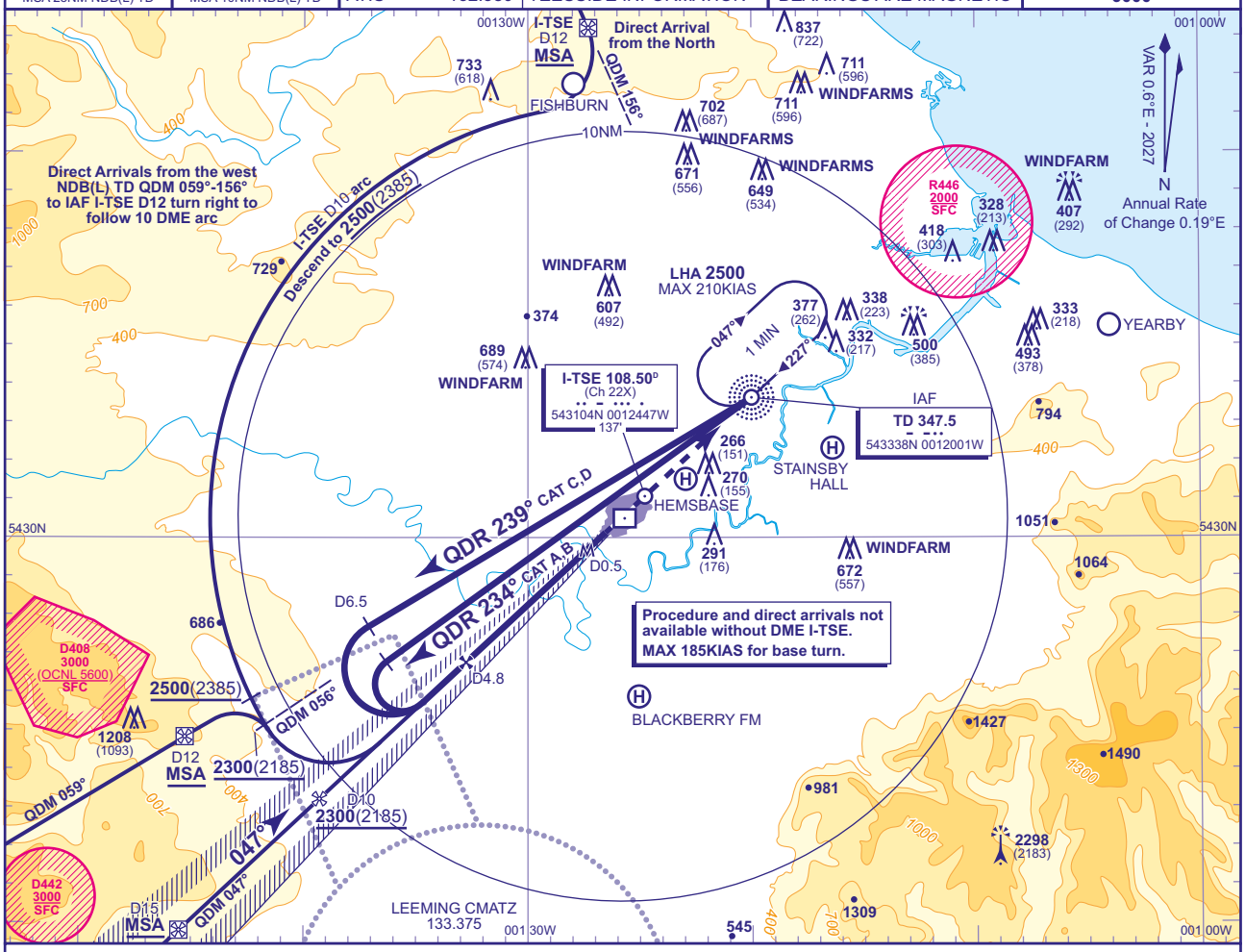


MSA 10NM NDB(L) TD

APP	118.855	TEESSIDE APPROACH	
TWR	119.805	TEESSIDE TOWER	
RAD	118.855	TEESSIDE RADAR	
RAD	128.855	TEESSIDE DIRECTOR	
ATIS	132.380	TEESSIDE INFORMATION	

AD ELEVATION	**120**
THR ELEVATION	**115**
OBSTACLE ELEVATION	**2298 AMSL** (2183) (ABOVE THR)
BEARINGS ARE MAGNETIC	

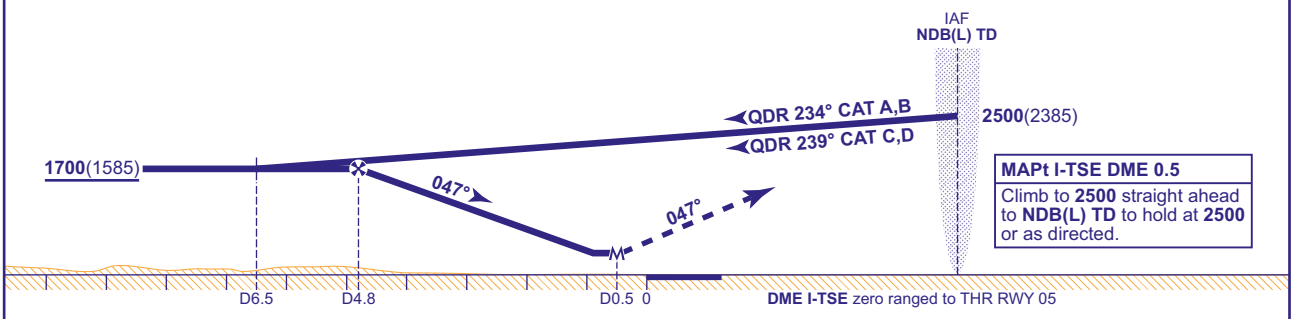
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-TSE	4	3	2
ALT(HGT)	**1440**(1325)	**1120**(1005)	**800**(685)

Arrival **not below MSA**.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**510**(395)	**510**(395)	**510**(395)	**510**(395)
VM(C)OCA (OCH AAL)	Total Area	**590**(470)	**640**(520)	**1050**(930)	**1090**(970)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

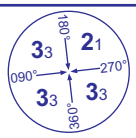
NOTE 1 NDB(L) TD and DME I-TSE not co-located beware of potentially confusing DME readings on the outbound leg of base turn procedures
2 Direct/arc arrivals only available with ATC clearance.

CHANGE (11/25): MSA 25NM SW INCREASE. VM(C)OCA (OCH AAL) CAT C/D INCREASE. MAG VAR. MAG TRACKS.

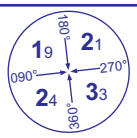
AERO INFO DATE 11 AUG 25

INSTRUMENT APPROACH CHART - ICAO

TEESSIDE INTERNATIONAL
NDB(L)/DME RWY 05
(ACFT CAT A,B,C,D)



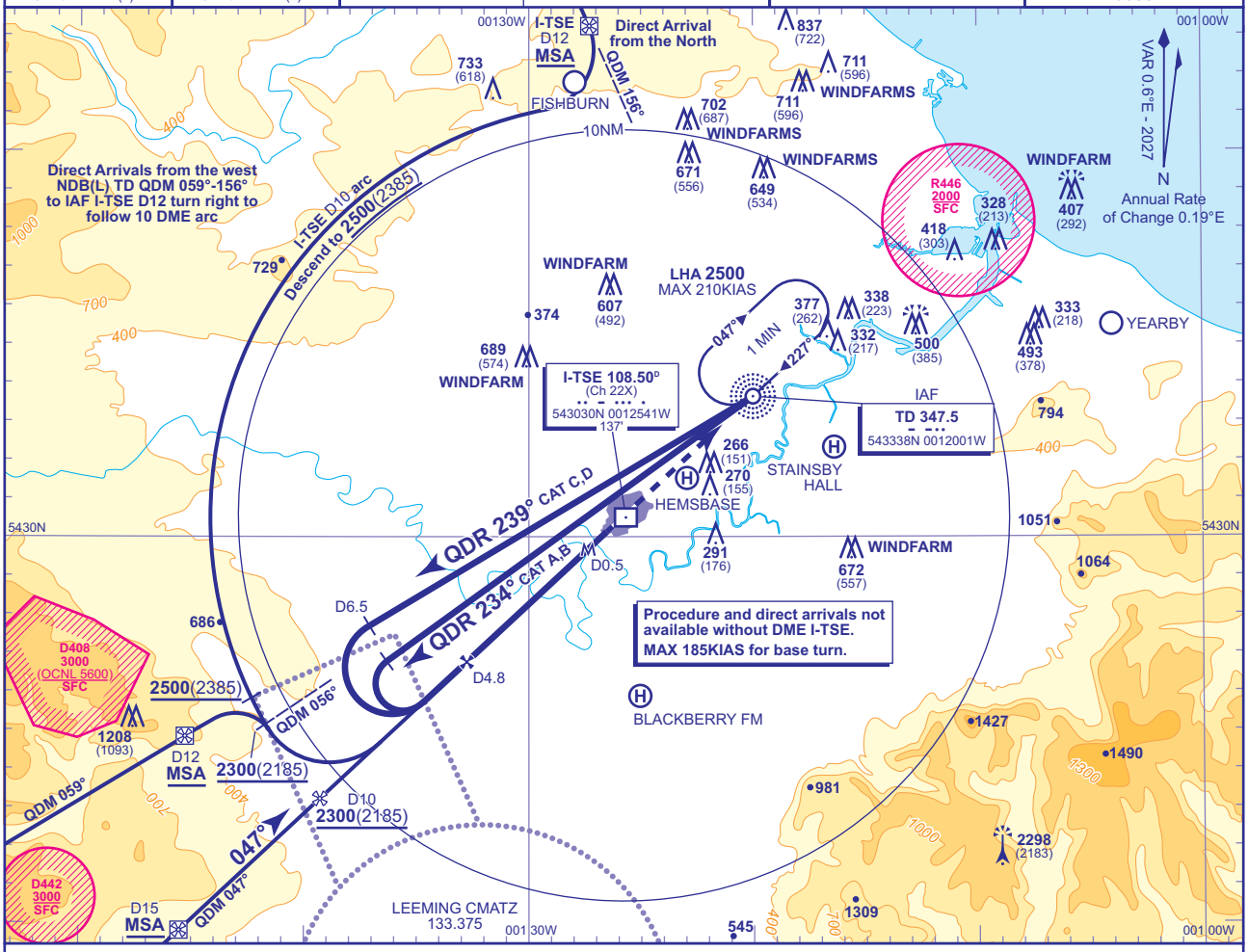
MSA 25NM NDB(L) TD



MSA 10NM NDB(L) TD

APP	118.855	TEESSIDE APPROACH	AD ELEVATION	120	
TWR	119.805	TEESSIDE TOWER	THR ELEVATION	115	
RAD	118.855	TEESSIDE RADAR	OBSTACLE ELEVATION	2298 AMSL (2183) (ABOVE THR)	
RAD	128.855	TEESSIDE DIRECTOR			
ATIS	132.380	TEESSIDE INFORMATION	BEARINGS ARE MAGNETIC		

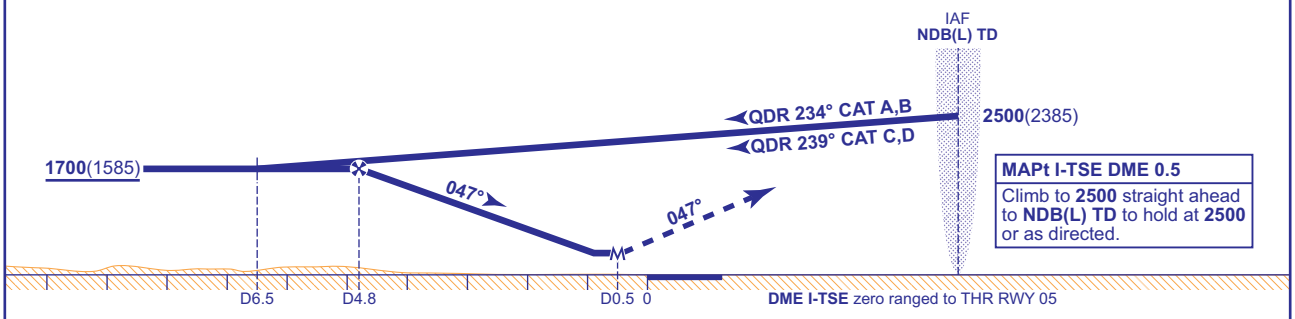
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-TSE	4	3	2
ALT(HGT)	**1440**(1325)	**1130**(1015)	**810**(695)

Arrival **not below MSA**.



Aircraft Category		A	B	C	D
OCA (OCH)	Procedure	**530**(415)	**530**(415)	**530**(415)	**530**(415)
VM(C)OCA (OCH AAL)	Total Area	**590**(470)	**640**(520)	**1050**(930)	**1090**(970)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

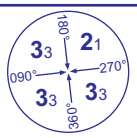
NOTE 1 NDB(L) TD and DME I-TSE not co-located beware of potentially confusing DME readings on the outbound leg of base turn procedures
2 Direct/arc arrivals only available with ATC clearance.

CHANGE (11/25): MSA 25NM SW INCREASE. VM(C)OCA (OCH AAL) CAT C/D INCREASE. MAG VAR. MAG TRACKS.

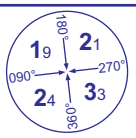
AERO INFO DATE 11 AUG 25

INSTRUMENT APPROACH CHART - ICAO

TEESSIDE INTERNATIONAL
ILS/DME/NDB(L) RWY 23
(ACFT CAT A,B,C,D)



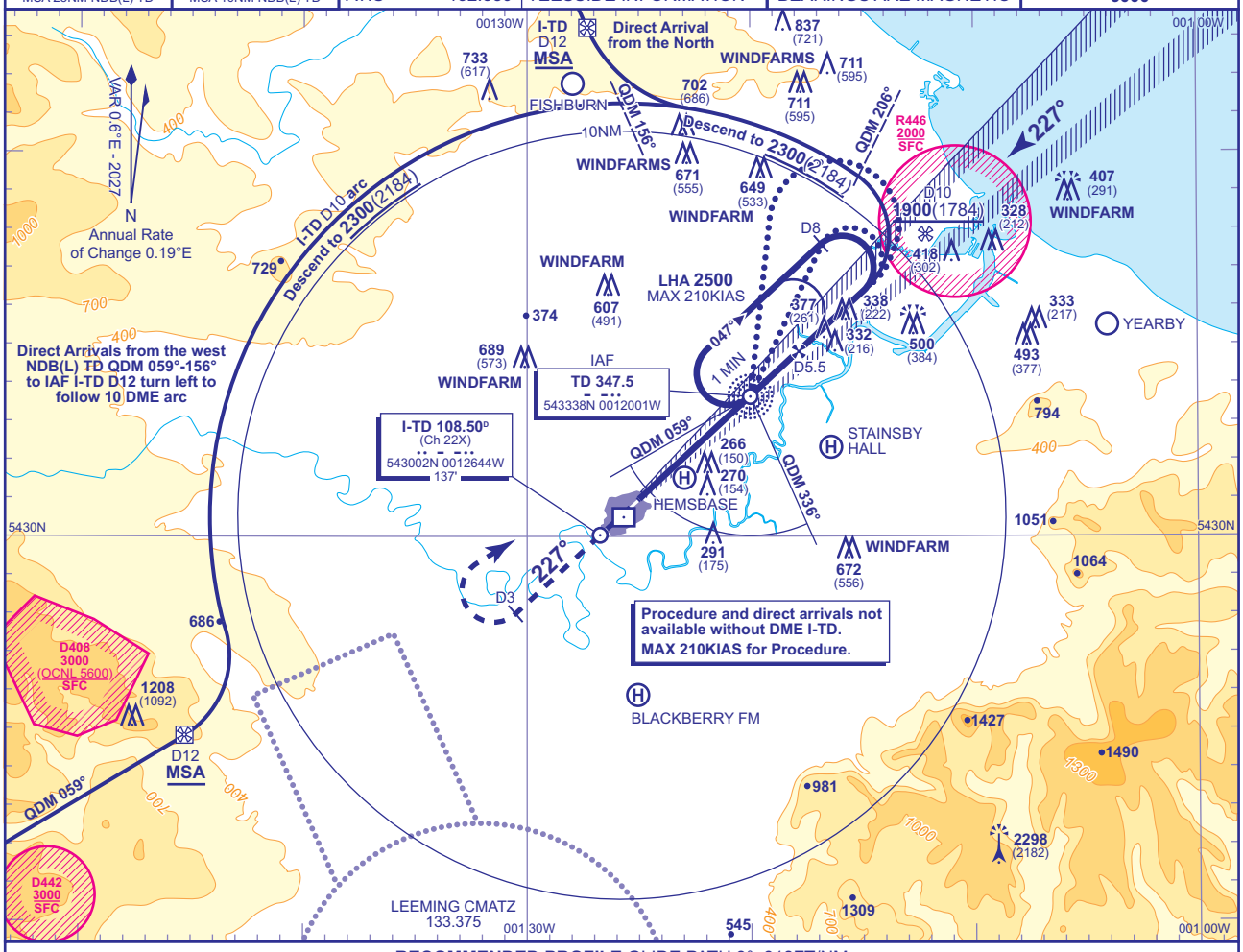
MSA 25NM NDB(L) TD



MSA 10NM NDB(L) TD

APP	118.855	TEESSIDE APPROACH	AD ELEVATION	120	
TWR	119.805	TEESSIDE TOWER	THR ELEVATION	116	
RAD	118.855	TEESSIDE RADAR	OBSTACLE ELEVATION **2298 AMSL** (2182) (ABOVE THR)		
RAD	128.855	TEESSIDE DIRECTOR			
ATIS	132.380	TEESSIDE INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE
6000



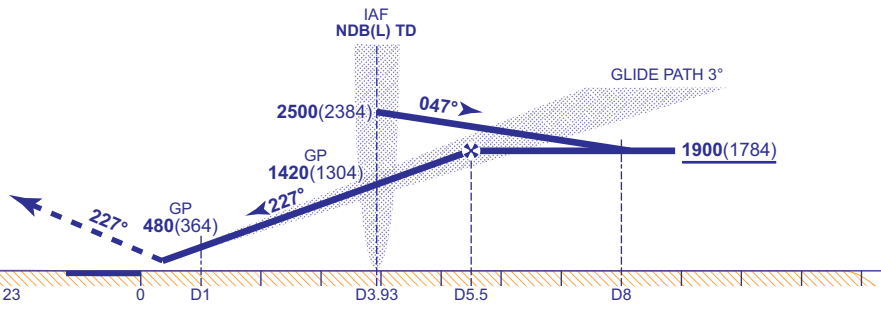
RECOMMENDED PROFILE GLIDE PATH 3°, 318FT/NM

DME I-TD	5	4	3	2	1
ALT(HGT)	**1760**(1644)	**1440**(1324)	**1120**(1004)	**800**(684)	**480**(364)

RDH 50

Arrival **not below MSA**.

Climb straight ahead to **1000** or **I-TD** D3 outbound whichever is later then turn right to return to **NDB(L) TD** to enter hold at **2500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**CAT I**	**261**(145)	**271**(155)	**283**(167)	**297**(181)
VM(C)OCA (OCH AAL)	**Total Area**	**590**(470)	**640**(520)	**1050**(930)	**1090**(970)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
Arrival overhead NDB(L) TD **not below MSA**, only from within sector entry between NDB(L) TD QDM 336° and NDB(L) TD QDM 059° fly outbound on NDB(L) TD QDR 025° CAT A,B and NDB(L) TD QDR 006° CAT C,D descending **not below 1900**(1784). At I-TD DME 8 baseturn right to intercept the LOC, continue as for main procedure.

NOTE 1 No sector 1 entries to racetrack authorised.
2 Direct/arc arrivals only available with ATC clearance.

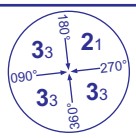
CHANGE (11/25): MSA 25NM SW INCREASE. VM(C)OCA (OCH AAL) CAT C/D INCREASE. MAG VAR. MAG TRACKS.

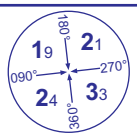
AERO INFO DATE 11 AUG 25

AD 2-EGNV-8-4

INSTRUMENT APPROACH CHART - ICAO

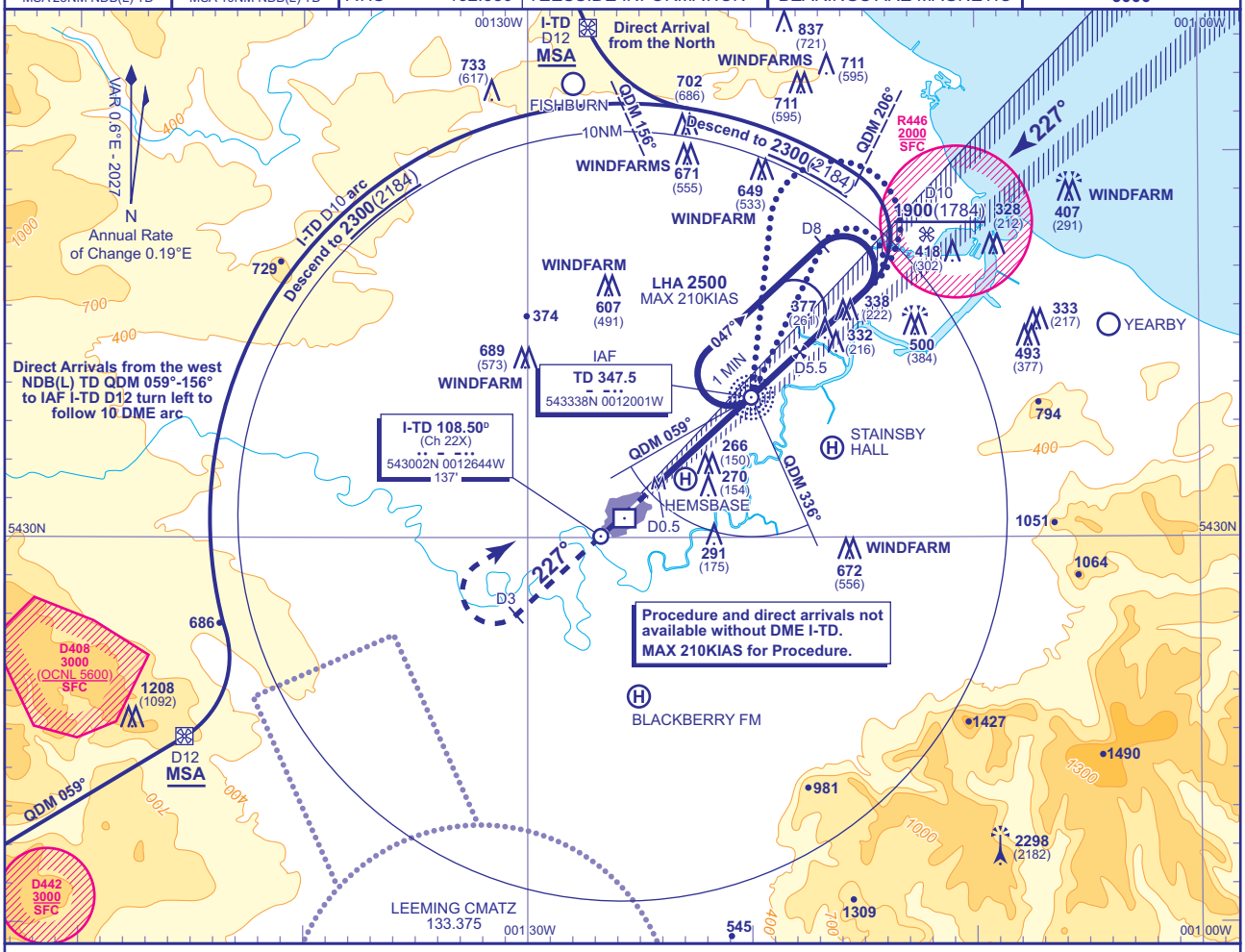
TEESSIDE INTERNATIONAL
LOC/DME/NDB(L) RWY 23
(ACFT CAT A,B,C,D)





APP	118.855	TEESSIDE APPROACH	AD ELEVATION	120	
TWR	119.805	TEESSIDE TOWER	THR ELEVATION	116	
RAD	118.855	TEESSIDE RADAR	OBSTACLE ELEVATION	2298 AMSL (2182) (ABOVE THR)	
RAD	128.855	TEESSIDE DIRECTOR			
ATIS	132.380	TEESSIDE INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



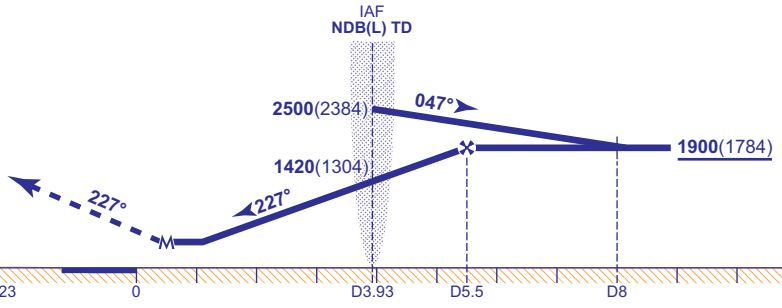
RECOMMENDED PROFILE Gradient 5.24%, 318FT/NM

DME I-TD	5	4	3	2
ALT(HGT)	**1760**(1644)	**1440**(1324)	**1120**(1004)	**800**(684)

Arrival **not below MSA**.

MAPt I-TD DME 0.5

Climb straight ahead to **1000** or **I-TD** D3 outbound whichever is later then turn right to return to **NDB(L) TD** to enter hold at **2500** or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**Procedure**	**500**(384)	**500**(384)	**500**(384)	**500**(384)
VM(C)OCA (OCH AAL)	**Total Area**	**590**(470)	**640**(520)	**1050**(930)	**1090**(970)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
Arrival overhead NDB(L) TD **not below MSA**, only from within sector entry between NDB(L) TD QDM 336° and NDB(L) TD QDM 059° fly outbound on NDB(L) TD QDR 025° CAT A,B and NDB(L) TD QDR 006° CAT C,D descending **not below 1900**(1784). At I-TD DME 8 baseturn right to intercept the LOC, continue as for main procedure.

NOTE 1 No sector 1 entries to racetrack authorised.
2 Direct/arc arrivals only available with ATC clearance.

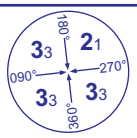
CHANGE (11/25): MSA 25NM SW INCREASE. VM(C)OCA (OCH AAL) CAT C/D INCREASE. MAG VAR. MAG TRACKS.

AERO INFO DATE 11 AUG 25

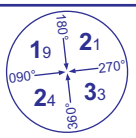
AD 2-EGNV-8-5

INSTRUMENT APPROACH CHART - ICAO

TEESSIDE INTERNATIONAL
NDB(L)/DME
RWY 23
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) TD

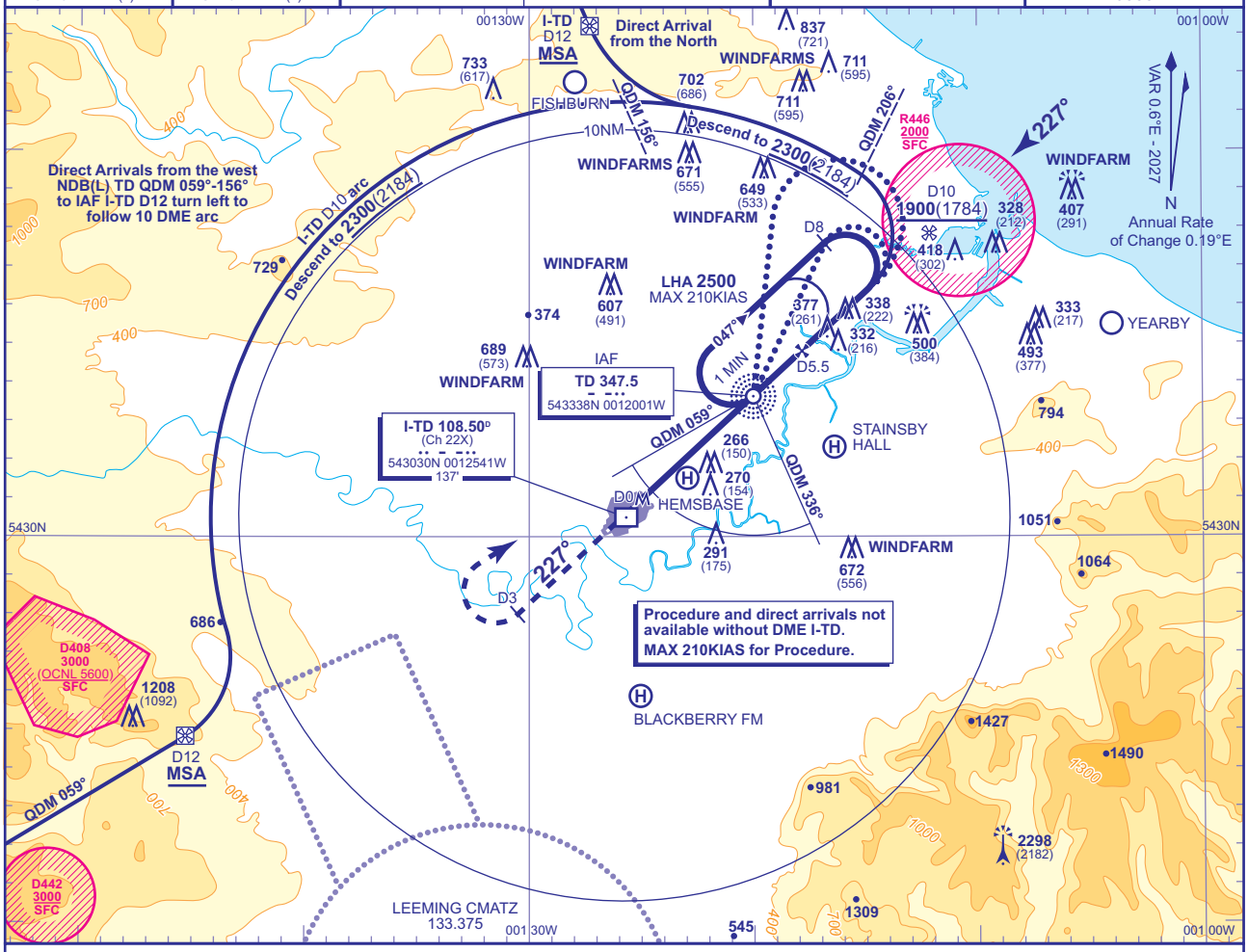


MSA 10NM NDB(L) TD

APP	118.855	TEESSIDE APPROACH	
TWR	119.805	TEESSIDE TOWER	
RAD	118.855	TEESSIDE RADAR	
RAD	128.855	TEESSIDE DIRECTOR	
ATIS	132.380	TEESSIDE INFORMATION	

AD ELEVATION	**120**
THR ELEVATION	**116**
OBSTACLE ELEVATION	**2298 AMSL** (2182) (ABOVE THR)
BEARINGS ARE MAGNETIC	

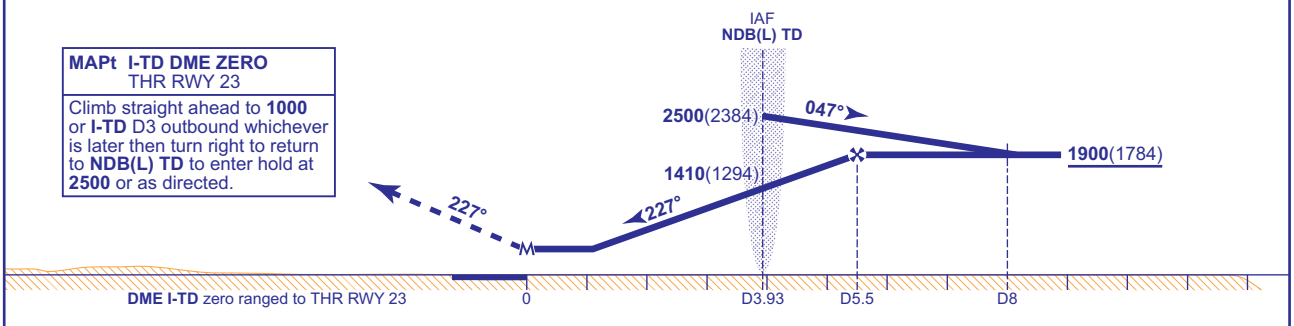
TRANSITION ALTITUDE **6000**



RECOMMENDED PROFILE Gradient 5.19%, 315FT/NM

DME I-TD	5	4	3	2
ALT(HGT)	**1740**(1624)	**1430**(1314)	**1110**(994)	**800**(684)

Arrival **not below MSA**.



MAPt I-TD DME ZERO
THR RWY 23

Climb straight ahead to **1000** or **I-TD** D3 outbound whichever is later then turn right to return to **NDB(L) TD** to enter hold at **2500** or as directed.

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**Procedure**	**540**(424)	**540**(424)	**540**(424)	**540**(424)
VM(C)OCA (OCH AAL)	**Total Area**	**590**(470)	**640**(520)	**1050**(930)	**1090**(970)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	850	740	640	530	420

ALTERNATIVE PROCEDURE
Arrival overhead NDB(L) TD **not below MSA**, only from within sector entry between NDB(L) TD QDM 336° and NDB(L) TD QDM 059° fly outbound on NDB(L) TD QDR 025° CAT A,B and NDB(L) TD QDR 006° CAT C,D descending **not below 1900**(1784). At I-TD DME 8 baseturn right to intercept the FAT, continue as for main procedure.

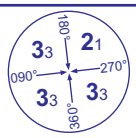
NOTE 1 No sector 1 entries to racetrack authorised.
2 Direct/arc arrivals only available with ATC clearance.

CHANGE (11/25): MSA 25NM SW INCREASE. VM(C)OCA (OCH AAL) CAT C/D INCREASE. MAG VAR. MAG TRACKS.

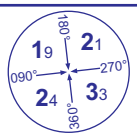
AERO INFO DATE 11 AUG 25 AD 2-EGNV-8-6

INSTRUMENT APPROACH CHART - ICAO

TEESSIDE INTERNATIONAL
NDB(L) RWY 23
(ACFT CAT A,B,C,D)



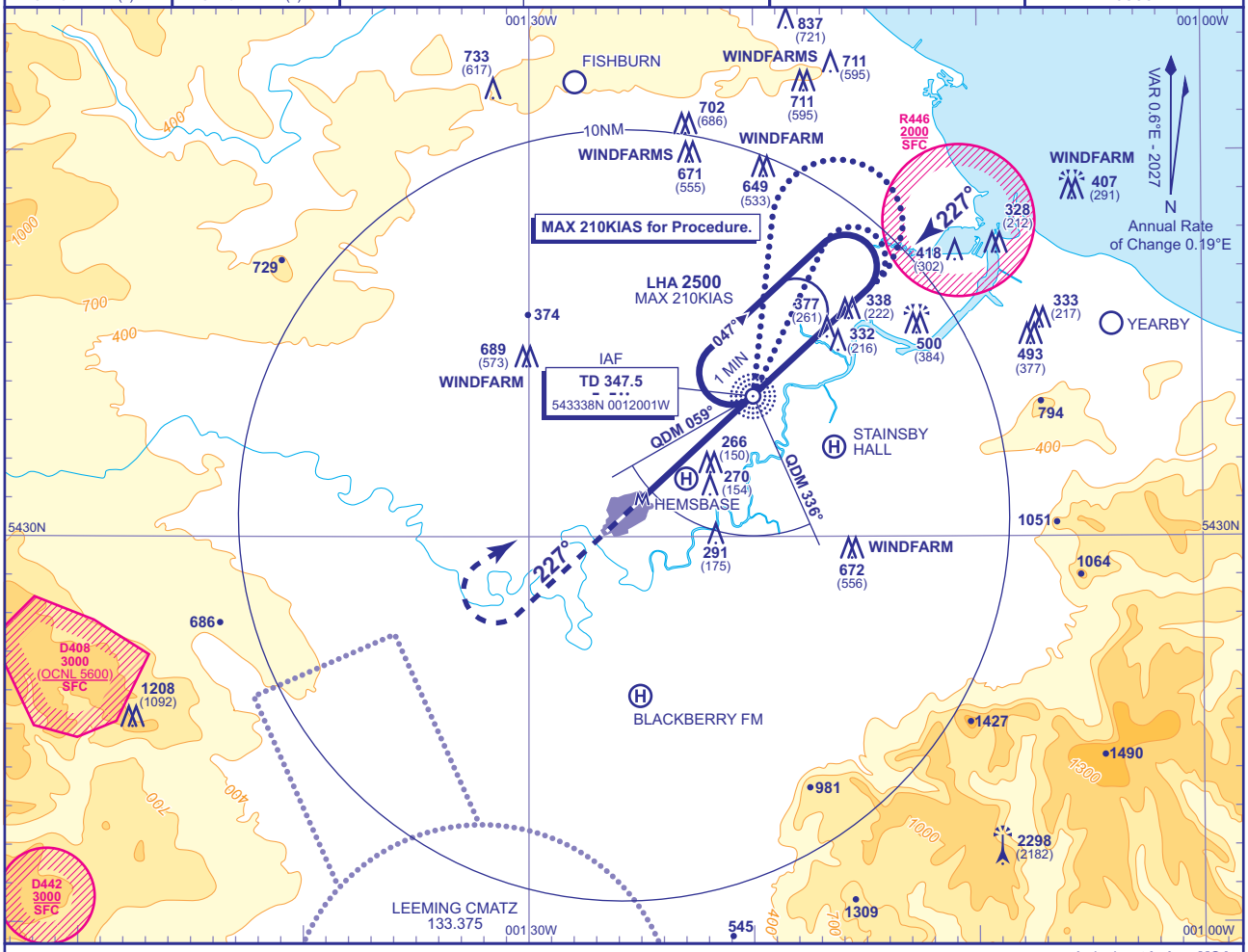
MSA 25NM NDB(L) TD



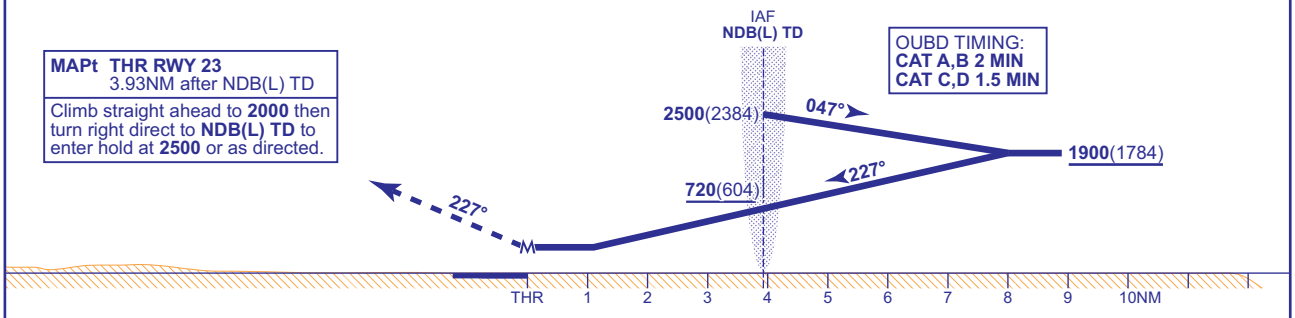
MSA 10NM NDB(L) TD

APP	118.855	TEESSIDE APPROACH	AD ELEVATION	120	
TWR	119.805	TEESSIDE TOWER	THR ELEVATION	116	
RAD	118.855	TEESSIDE RADAR	OBSTACLE ELEVATION	2298 AMSL (2182) (ABOVE THR)	
RAD	128.855	TEESSIDE DIRECTOR			
ATIS	132.380	TEESSIDE INFORMATION	BEARINGS ARE MAGNETIC		

TRANSITION ALTITUDE **6000**



Arrival **not below MSA**.



MAPt THR RWY 23
3.93NM after NDB(L) TD

Climb straight ahead to **2000** then turn right direct to **NDB(L) TD** to enter hold at **2500** or as directed.

Aircraft Category		A	B	C	D	Rate of descent	G/S KT	160	140	120	100	80
OCA (OCH)	Procedure	540(424)	540(424)	540(424)	540(424)		FT/MIN	850	740	640	530	420
VM(C)OCA (OCH AAL)	Total Area	590(470)	640(520)	1050(930)	1090(970)	NDB(L) TD to MAPt	MIN:SEC	1:28	1:41	1:58	2:21	2:57

ALTERNATIVE PROCEDURE
Arrival overhead NDB(L) TD **not below MSA**, only from within sector entry between NDB(L) TD QDM 336° and NDB(L) TD QDM 059° fly outbound on NDB(L) TD QDR 025° CAT A,B and NDB(L) TD QDR 006° CAT C,D descending **not below 1900**(1784). At 2MIN (CAT A,B) 1.5MIN (CAT C,D) baseturn right to intercept the NDB(L) TD QDM 227°. Once established on FAT descend to MDA(H).

NOTE No sector 1 entries to racetrack authorised.

CHANGE (11/25): MSA 25NM SW INCREASE. VM(C)OCA (OCH AAL) CAT C/D INCREASE. MAG VAR. MAG TRACKS.

AERO INFO DATE 11 AUG 25

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EGHO — THRUXTON

EGHO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHO — THRUXTON

EGHO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 511238N Long: 0013600W
2	Direction and distance from city	4.5 NM W of Andover.
3	Elevation / Reference temperature / Mean Low Temperature	319 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	155 FT
5	Magnetic Variation / Annual Change	0.87°E (2027) / 0.17°E
6	AD Administration Address Telephone E-mail address Web address	THRUXTON AERODROME Thruxton, Andover, Hampshire, SP11 8PW. 01264-772352 (A/G) 01264-772171 (Administration) tower@thruxton.com (AGCS) www.thruxtonairport.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGHO AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600); and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Use of the aerodrome is subject to PPR.

EGHO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (AL48 additive not included)., AVGAS 100LL
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGHO AD 2.5 PASSENGER FACILITIES

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EGHO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 1/H0. Category 2 accepted under remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGHO AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGHO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGHO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Windsleeves (LGTD) - 511236.25N 0013546.12W; 511243.36N 0013550.59W.

EGHO AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHO3988) 12/APPROACH 30/ TAKE-OFF	TREE	511249.47N 0013630.48W	382 FT		No	Dominant Obstacle.

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHO3340)	TREE	511303.88N 0013722.34W	541 FT		No	
(EGHO3338)	TREE	511303.61N 0013724.64W	542 FT		No	
(EGHO1033)	HANGAR	511234.50N 0013618.05W	340 FT		Yes	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHO1202)	MAST	511222.26N 0013556.29W	356 FT		Yes White strobe HJ/Flashing red HN	

EGHO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGHO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
07	066.91°	969 x 23 M	RWY surface: Asphalt	511235.59N 0013606.89W 155.3 FT	THR 303.6 FT	
25	246.91°	969 x 23 M	RWY surface: Asphalt	511245.23N 0013530.89W 155.3 FT	THR 305.6 FT	
12	122.84°	757 x 31 M	RWY surface: Grass	511243.15N 0013613.43W 155.3 FT	THR 318.9 FT	
30	302.85°	757 x 31 M	RWY surface: Grass	511229.89N 0013540.64W 155.3 FT	THR 278.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
		1029 x 65 M				RWY 07 Threshold displaced by 180 M.
		1029 x 65 M				RWY 25 Threshold displaced by 29 M.
		817 x 73 M				RWY 12
		817 x 73 M				RWY 30

EGHO AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	**2**	**3**	**4**	**5**	**6**
07	799 M	799 M	799 M	789 M	
25	799 M	799 M	799 M	799 M	
12	757 M	757 M	757 M	757 M	
30	757 M	757 M	757 M	757 M	

EGHO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07		Light intensity low Green wingbars	APAPI Left/4° 20 FT			Light intensity low	Red		
25		Light intensity low Green wingbars	APAPI Left/4° 20 FT			Light intensity low	Red		

EGHO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	Obstacle lighting.

EGHO AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF HELI NORTH: 511232.17N 0013601.39W, 155.3 FT
2	TLOF and/or FATO elevation	TLOF HELI NORTH: 288.7 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGHO AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
THRUXTON ATZ A circle, 2 NM radius, centred at 511240N 0013549W on longest notified runway (07/ 25)	Upper limit: 2000 FT AGL Lower limit: SFC	G	THRUXTON RADIO English			

EGHO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	THRUXTON RADIO	118.280 A/G frequency. DOC 10 NM/3000 FT.			0900-1700 (0800-1600)	ATZ hours coincident with A/G hours.

EGHO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGHO AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) While airside each aircraft commander is responsible for the safety of their passengers and other crew members. Passengers are at all times to be escorted by the aircraft commander or a crew member who is known to be competent to ensure both his/her and the passengers safety. The wearing of high visibility clothing is mandatory.
b) Aircraft commanders or crew members, as applicable, are responsible for ensuring that a total ban on smoking whilst airside is observed.
c) Permission to use the aerodrome, either to land or depart, may be withdrawn without prior notice. Withdrawal of permission may occur due to prevailing weather conditions if it is considered that the requirements of the aerodrome's Safety Management System cannot be met.
d) The carriage of Dangerous Goods, as defined by The Air Navigation (Dangerous Goods) Regulations 2002, is prohibited unless written approval has been issued by the Aerodrome Manager.
e) Permission to use the aerodrome by flights that are subject to the GAR process is conditional upon submission of a copy of the GAR to the aerodrome operator, at the email address listed at AD 2.2, item 6.
f) Thruxton is a regulated aerodrome pursuant to the provisions of the UK Customs and Excise Management Act 1979. Thruxton is not designated as a Customs & Excise airport but operates under an approval managed by UK Border Force.

   Subject to compliance with the provisions of the UK General Aviation Report (GAR) process, flights by general aviation aircraft may enter and depart the UK via Thruxton, except for those aircraft that are being imported, either temporarily or permanently, from a state that is outside the Common Travel Area, in which case they must first enter and, if temporarily imported, leave the UK via a designated customs airport.

g) Use of the aerodrome not permitted for aircraft that are unable to communicate with the A/G station via RTF on 118.280 MHZ.
h) Use of the Main Apron is restricted to aircraft with a wingspan not exceeding 12 M and fuselage length not exceeding 9.5 M. Subject to specific approval from A/G, use by other aircraft may be permitted. This approval is to be requested when permission to use the aerodrome is obtained.
i) Subject to compliance with operating conditions and limitations specified by the Aerodrome Operator, permission may be granted for aircraft that do not require use of a licensed aerodrome to use the aerodrome outside the notified hours of availability of A/G and RFFS. This is referred to as “Outside Hours”. Permission may, at the discretion of the Aerodrome Operator, be temporarily suspended when notified by NOTAM or withdrawn at short notice.
j) Non-aviation public events take place adjacent to the aerodrome and on parts of it. These events result in assemblies of more than 1000 persons requiring compliance with Rules of The Air Regulations 2015 (as amended), Rule 5, (2) (a), whereby any aircraft landings and take-offs within 1000 M of the assemblies must be in accordance with procedures notified by the CAA.

   During assemblies of more than 1000 persons the aerodrome is notified via NOTAM as closed. However, the Aerodrome Operator may, subject to compliance with specific risk mitigating procedures, issue permission to a limited number of aircraft operators to land and take-off when assemblies of more than 1000 persons are present. In these cases the provisions of Rule 5 (2) (a) are deemed to have been met.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Danger Areas EGD126, EGD127 Boscombe Down and Middle Wallop ATZ are located adjacent to the Thruxton ATZ. All are active as notified in the UK AIP.
b) Part of Danger Area EGD126 overlaps with the NW extremity of the ATZ. Within this part of the ATZ, activities including helicopter flying, may take place below 500 FT AGL and also UAS flying at or below 400 FT AGL.

Operation of aircraft within the Thruxton ATZ is subject to a Letter of Agreement with the SUA Authority. Aircraft within the ATZ may accordingly cross the overlapping part of EGD126 at a recommended height of 800 FT AAL (1119 FT ALT) or above. At times that Runway 25 is in use, aircraft on the crosswind leg may enter EGD126 at or above 700 FT AAL whilst climbing to 800 FT AAL or above.

The notified Upper Limit of EGD126 (1400 FT ALT/1081 FT AAL) may from time to time be temporarily raised, as notified via NOTAM. During these times it is recommended that aircraft within the ATZ avoid EGD126.

c) Part of the final approach track to Runway 23 at Boscombe Down passes through the lateral limits of the Thruxton ATZ. During Boscombe Down Combined Military Air Traffic Zone (CMATZ) hours of operation, aircraft being provided ATS by ATC Boscombe Down will transit the Thruxton ATZ above 1450 FT AAL. Recommended arrival and departure procedures are notified at AD 2.22 with the intent of avoiding traffic above 1450 FT AAL.
d) Military helicopter, transport and tactical jet aircraft operations can be anticipated at any time in the vicinity of Thruxton ATZ. These are normally being provided ATS by Boscombe Down or Middle Wallop.
e) Subject to approval by the aerodrome operator, aircraft movements may take place outside notified aerodrome/ATZ operating hours involving aircraft that do not require the use of a licensed aerodrome.

5 HELICOPTER OPERATIONS

a) Helicopters may operate from/to an aiming point designated “Heli North” located 130 M south of the intersection of runways 07/25 and 12/30. The aiming point is marked by two white concentric circles. Circuits flown by helicopters will be as follows, in relation to the specified runway in use, and at the specified height:

- Runway 07 - RH, 1000 FT AAL
- Runway 25 - LH, 1000 FT AAL
- Runway 12 - RH, 800 † FT AAL
- Runway 30 - LH, 800 † FT AAL

† 1000 FT if Boscombe CMATZ is not active.

b) Unless otherwise advised by A/G station, helicopters must arrive and depart the ATZ via Heli North, in accordance with the procedures set out at paragraph (a).

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGHO AD 2.21 NOISE ABATEMENT PROCEDURES

a) Aircraft are to be operated in a manner to cause the least disturbance in areas surrounding the aerodrome. All aircraft should avoid overflying the following residential areas:

- Kimpton Village (adjacent to northern aerodrome boundary);
- Fyfield Village (1 NM northeast of the aerodrome);
- Quarley Village (1.25 NM southwest of the aerodrome);
- Thruxton Village (adjacent to eastern aerodrome boundary);
- The Hawk Conservancy (bird sanctuary 1.5 NM southeast of the aerodrome).

EGHO AD 2.22 FLIGHT PROCEDURES

1 BOSCOMBE DOWN/MIDDLE WALLOP CMATZ

a) If ATC Boscombe Down is the CMATZ managing authority, recommended procedures are set out below. Information on the CMATZ activity status may be obtained from A/G.

i. **Arriving aircraft**

1. Contact Boscombe Zone on 126.705 for a MATZ penetration service (in accordance with ENR 2.2). Unless a direct routeing is offered by Boscombe Down ATC, arriving traffic should route via a point 1 NM north of Andover. Once an aircraft has reported at this point it will be advised to free-call Thruxton A/G. Remain outside the Thruxton ATZ and contact 'Thruxton Radio' on 118.280 MHz for ATZ entry information. ATZ entry should be level at 1200 FT AAL, or lower if necessary to maintain VMC; or,
2. Avoid the Boscombe Down CMATZ, contact 'Thruxton Radio' for ATZ entry information. ATZ entry should be level at 1200 FT AAL, or lower if necessary to maintain VMC.

ii. **Departing aircraft**

1. Leave the Thruxton ATZ not above 1200 FT ALT (Thruxton QNH) on an easterly track. Runway 25 departures should turn right, with the intent to complete the turn within the ATZ.
2. Before climbing above 1200 FT ALT (Thruxton QNH), either free-call 'Boscombe Zone' on 126.705 after leaving the Thruxton ATZ or delay further climb until clear of the CMATZ.
3. In the case of an intention to track westbound through the CMATZ, aircraft should continue on an easterly track until in contact with Boscombe and approval to set course is given.

2 COMMUNICATIONS

a) Aircraft should squawk conspicuity SSR code 2660, without altimeter information, when remaining within the traffic circuit.

3 CIRCUITS

a) Unless otherwise notified by A/G, circuit height is 800 FT AAL (Thruxton QFE) for all runways.
b) During times that the Boscombe Down CMATZ is not in operation, circuit joining height is 1500 FT AAL, or the maximum possible below this level to maintain VMC and circuit height 1000 FT AAL.
c) There is no dead-side for Runway 07/25. Helicopters operate south of Runway 07/25 up to 1000 FT AAL.
d) The following are recommended circuit joining procedures:

i. Runway 07 in use

1. Joining from the east, notify A/G of intent to join downwind, descend to circuit height at the ATZ boundary, enter the circuit via the downwind leg.
2. Joining from the west, fly along the runway centreline, turn crosswind at the RWY 25 threshold, descend to circuit height when crosswind.

ii. Runway 25 in use

1. Joining from the east, fly along the runway centreline, at the Runway 07 threshold turn crosswind, descend to circuit height when crosswind.
2. Joining from the west, notify A/G of intent to join downwind, descend to circuit height at the ATZ boundary, enter the circuit via the downwind leg.

iii. Runway 12/30 in use

1. If entering the ATZ from the north or east, fixed wing and helicopters should position to join the circuit from the north-east, continue on south-westerly heading and join on the downwind leg of the runway/helicopter aiming point in use, as applicable.

e) The following circuit directions apply for fixed wing aircraft when the specified runways are in use:

- Runway 07 - LH
- Runway 25 - RH
- Runway 12 - RH
- Runway 30 - LH

f) Due to the proximity of the Middle Wallop ATZ, aircraft using Runway 12/30 are advised to remain north of the Andover-Salisbury railway line.

EGHO AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGHO AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHO-2-1

EGHO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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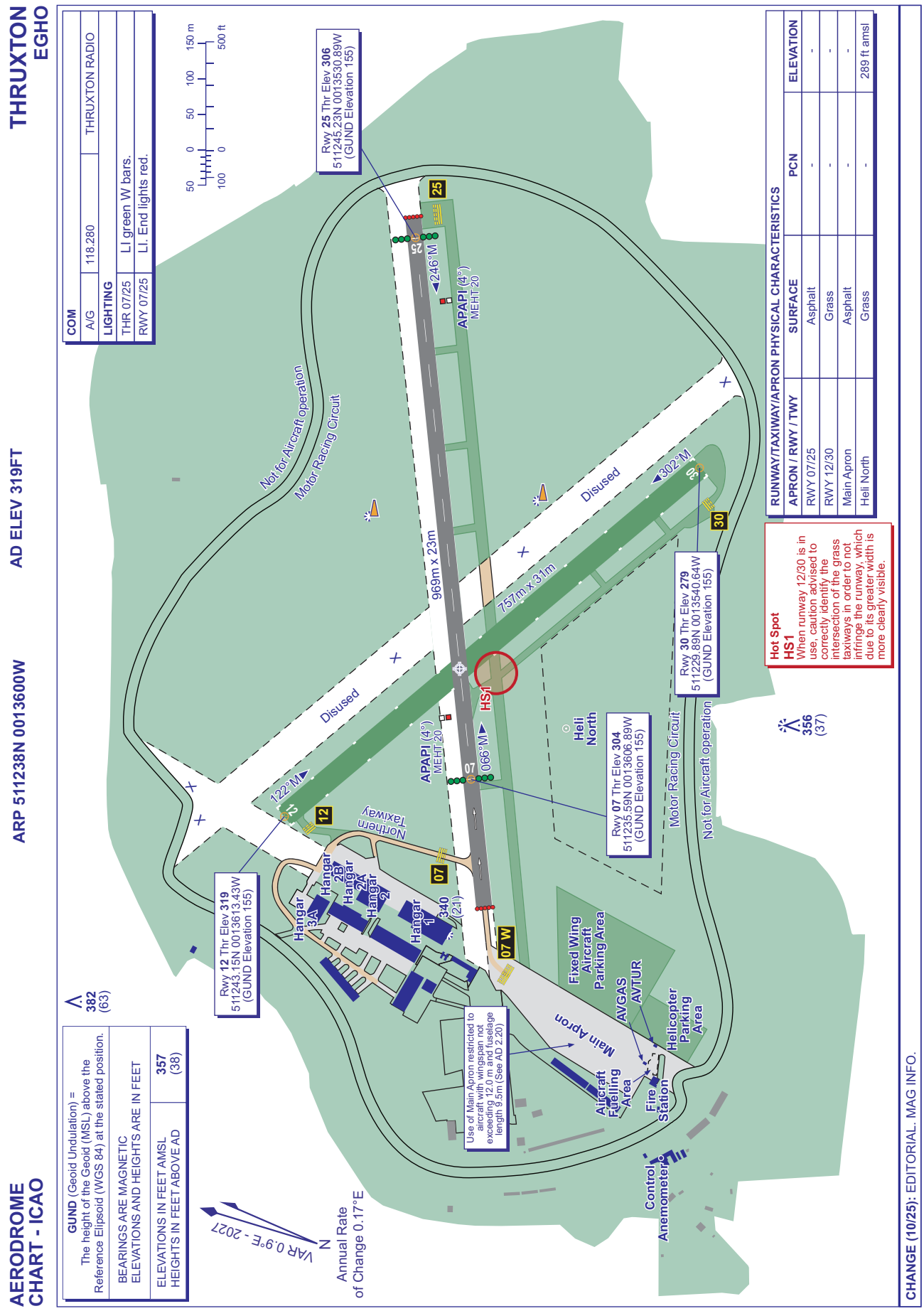
THRUXTON
EGHO
AD ELEV 319FT
ARP 511238N 0013600W
AERODROME
CHART - ICAO
COM
A/G 118.280 THRUXTON RADIO
LIGHTING
THR 07/25 Ll green W bars.
RWY 07/25 Ll. End lights red.
50 0 50 100 150 m
100 0 500 ft
Rwy 25 Thr Elev 306
511245.23N 0013530.89W
(GUND Elevation 155)
Rwy 12 Thr Elev 319
511243.15N 0013613.43W
(GUND Elevation 155)
Rwy 07 Thr Elev 304
511235.59N 0013606.89W
(GUND Elevation 155)
Rwy 30 Thr Elev 279
511229.89N 0013540.64W
(GUND Elevation 155)
969m x 23m
757m x 31m
APAPI (4°)
MEHT 20
246°M
302°M
122°M
066°M
Disused
Not for Aircraft operation
Motor Racing Circuit
Northern Taxiway
Hangar 3A
Hangar 2B
Hangar 2A
Hangar 2
Hangar 1
340 (21)
Heli North
Fixed Wing Aircraft Parking Area
AVGAS
AVTUR
Helicopter Parking Area
Main Apron
Aircraft Fuelling Area
Fire Station
Control Anemometer
Use of Main Apron restricted to aircraft with wingspan not exceeding 12.0 m and fuselage length 9.5m (See AD 2.20)
Hot Spot
HS1
When runway 12/30 is in use, caution advised to correctly identify the intersection of the grass taxiways in order to not infringe the runway, which due to its greater width is more clearly visible.
356 (37)
382 (63)
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL 357 (38)
HEIGHTS IN FEET ABOVE AD
VAR 0.9°E - 2021
N
Annual Rate of Change 0.17°E
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY | SURFACE | PCN | ELEVATION
RWY 07/25 | Asphalt | - | -
RWY 12/30 | Grass | - | -
Main Apron | Asphalt | - | -
Heli North | Grass | - | 289 ft amsl
CHANGE (10/25): EDITORIAL. MAG INFO.

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EGPU — TIREE

EGPU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPU — TIREE

EGPU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 562957N Long: 0065209W Mid point of Runway 05/23.
2	Direction and distance from city	2.5 NM NNE Balemartine.
3	Elevation / Reference temperature / Mean Low Temperature	38 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	186 FT
5	Magnetic Variation / Annual Change	2.76°W (2022) / 0.23°E
6	AD Administration Address Telephone Telefax	HIAL Tiree Aerodrome, Isle of Tiree, Argyll, PA77 6UW. 01879-220456 01879-220714
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPU AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Thu 0930-1815 (0830-1715); Fri 0930-1145 (0830-1045), 1600-1815 (1500-1715); Sat 0930-1515 (0830-1415); Sun 1415-1530 (1315-1430) and by arrangement with AD operator (HIAL).
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18
8	Fuelling	Not applicable.
9	Handling	By arrangement with HIAL
10	Security	
11	De-icing	
12	Remarks	This aerodrome is strictly PPR and arrival/departure times may be allocated.

EGPU AD 2.4 HANDLING SERVICES AND FACILITIES

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EGPU AD 2.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	
3	Transportation	
4	Medical facilities	Limited first aid available.
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	Disabled passenger handling and wheelchair facilities available during AD hours.

EGPU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A2 RFF Category 3 accepted under remission. RFF Category 4 by PPR arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	Limited
4	Remarks	

EGPU AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, chemical de-icing.
2	Clearance priorities	R/W's, Taxiway, Apron, Airport Domestic Area.
3	Remarks	Latest Information from: 01879-220456.

EGPU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A: 13 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	Apron 34 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Runway designators and centre-line markings.
3	Stop bars and runway guard lights (if any)	A, B1.
4	Other runway protection measures	
5	Remarks	WDIs (LGTD) - Runway 05: 562949.25N 0065230.58W; Runway 23: 563006.24N 0065158.04W; Runway 11: 563007.34N 0065227.00W.

EGPU AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPU9552) 05/APPROACH 23/ TAKE-OFF	BUILDING	562933.43N 0065259.60W	59 FT	16 FT	No	
(EGPU9551) 05/APPROACH 23/ TAKE-OFF	BUILDING	562933.36N 0065259.54W	59 FT	16 FT	No	
(EGPU9549) 05/APPROACH 23/ TAKE-OFF	BUILDING CHIMNEY	562933.23N 0065259.53W	61 FT	18 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPU1207)	BUILDING	563028.46N 0064917.76W	133 FT	16 FT	No	
(EGPU9509)	MAST	563013.94N 0065751.48W	444 FT	101 FT	No	
(EGPU9181)	MAST	562959.61N 0064825.43W	137 FT	110 FT	No	
(EGPU9500)	RADOME	562719.85N 0065522.85W	539 FT	81 FT	No	

EGPU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.
4	Trend forecast Interval of issuance	TREND 30 minutes.
5	Briefing/consultation provided	Self briefing/telephone.
6	Flight documentation Language(s) used	TAF/METAR. English.
7	Charts and other information available for briefing or consultation	Available on request from ATS.
8	Supplementary equipment available for providing information	Internet.
9	ATS units provided with information	TIREE
10	Additional information (limitation of service, etc.)	During airport opening hours only.

EGPU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05	047.10°	1481 x 30 M	RWY surface: Asphalt, Grooved PCN 5	562940.96N 0065240.33W 186.5 FT	THR 30.5 FT	
23	227.11°	1481 x 30 M	RWY surface: Asphalt, Grooved PCN 5	563010.89N 0065142.10W 186.4 FT	THR 19.7 FT	
11	107.06°	799 x 19 M	RWY surface: Asphalt PCN 6	563007.76N 0065245.47W 186.5 FT	THR 38.1 FT	
29	287.07°	799 x 19 M	RWY surface: Asphalt PCN 6	563000.09N 0065200.30W 186.5 FT	THR 24.6 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
	69 x 150 M	1531 x 280 M				RWY 05
	71 x 150 M	1531 x 280 M				RWY 23 Threshold displaced by 120 M to provide 1:50 over boundary fence.
		859 x 60 M				RWY 11

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		859 x 60 M				RWY 29

EGPU AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
05	1411 M	1481 M	1411 M	1411 M	
23	1410 M	1481 M	1481 M	1361 M	
11	799 M	799 M	799 M	799 M	
29	799 M	799 M	799 M	799 M	

EGPU AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05		Green Light intensity low	APAPI Left/3°			60 M spacing bi-directional with omni-directional component. White Light intensity low	Red Light intensity low		
23		Green Light intensity low	APAPI Right/3°			60 M spacing bi-directional with omni-directional component. White Light intensity low	Red Light intensity low		
11		Green Light intensity low	APAPI Right/3°			60 M spacing bi-directional with omni-directional component. White Light intensity low	Red Light intensity low		
29		Green Light intensity low	APAPI Right/3°			60 M spacing bi-directional with omni-directional component. White Light intensity low	Red Light intensity low		

EGPU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 562953.92N 0065243.14W Flashing White

2	LDI location and lighting Anemometer location and lighting	Anemometer: Taxiway A Mast: 563001.47N 0065241.07W (LGTD); Runway 23 Mast: 563013.00N 0065147.43W (LGTD); Runway 05 Mast: 562945.20N 0065241.49W (LGTD).
3	TWY edge and centre line lighting	EDGE: Taxiway A blue edge.
4	Secondary power supply/switch-over time	Standby Generator/22 seconds.
5	Remarks	Obstacle light on VCR.

EGPU AD 2.16 HELICOPTER LANDING AREA

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EGPU AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
TIREE ATZ A circle, 2 NM radius, centred at 562957N 0065209W on longest notified runway (05/ 23)	Upper limit: 2000 FT AGL Lower limit: SFC	G	TIREE INFORMATION English	3000 FT		

EGPU AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	TIREE INFORMATION	122.705 DOC 25 NM/6000 FT			Mon-Thu 0930-1815 (0830-1715); Fri 0930-1145 (0830-1045), 1600-1815 (1500-1715); Sat 0930-1515 (0830-1415); Sun 1415-1530 (1315-1430) and by arrangement with AD operator (HIAL).	ATZ hours coincident with AFIS hours, but not by arrangement.

EGPU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 1.73°W (2027) 1.7°W (2024)	TIR	124X 117.700 MHz	H24	562935.61N 0065232.27W	51 FT	VOR/DME DOC: 90 NM/50,000 FT (200 NM/50,000 FT in Sector R227-317).

EGPU AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Runway departure restriction for aircraft requiring the use of a licensed aerodrome:

i. **Runways 05/23 and 11/29**. Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 800 M or less are not permitted.

b) Use of Tiree aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) No ground signals except light signals.
b) All taxiways are closed except between the threshold of Runway 11, the parking apron, south of Runway 11/29. Unserviceable sections of Runway are fenced off and marked with white crosses.
c) Grass areas are soft and unsafe. Poor load bearing characteristics may be found on the runway/taxiway strips and the area adjacent to the apron. Only marked taxiway to be used.
d) Large flocks of geese are prevalent in the vicinity of the aerodrome all year round, with increased activity between October and March.
e) Windsurfing and kite surfing may take place on beaches near the aerodrome.
f) Paramotor activity by non-radio aircraft takes place occasionally throughout the year on the Isle of Tiree.
g) Wind Turbine, 563208N 0064528W, 4.4 NM/59°T from ARP, 262 FT AGL.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGPU AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGPU AD 2.22 FLIGHT PROCEDURES

1 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGPU AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGPU AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPU-2-1
INSTRUMENT APPROACH CHART RNP RWY 05 (CAT A,B) - ICAO
AD 2.EGPU-8-1
INSTRUMENT APPROACH CHART RNP RWY 23 (CAT A,B) - ICAO
AD 2.EGPU-8-2
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 05
AD 2.EGPU-8-3
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 23
AD 2.EGPU-8-4

EGPU AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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TIREE EGPU

AERODROME CHART - ICAO

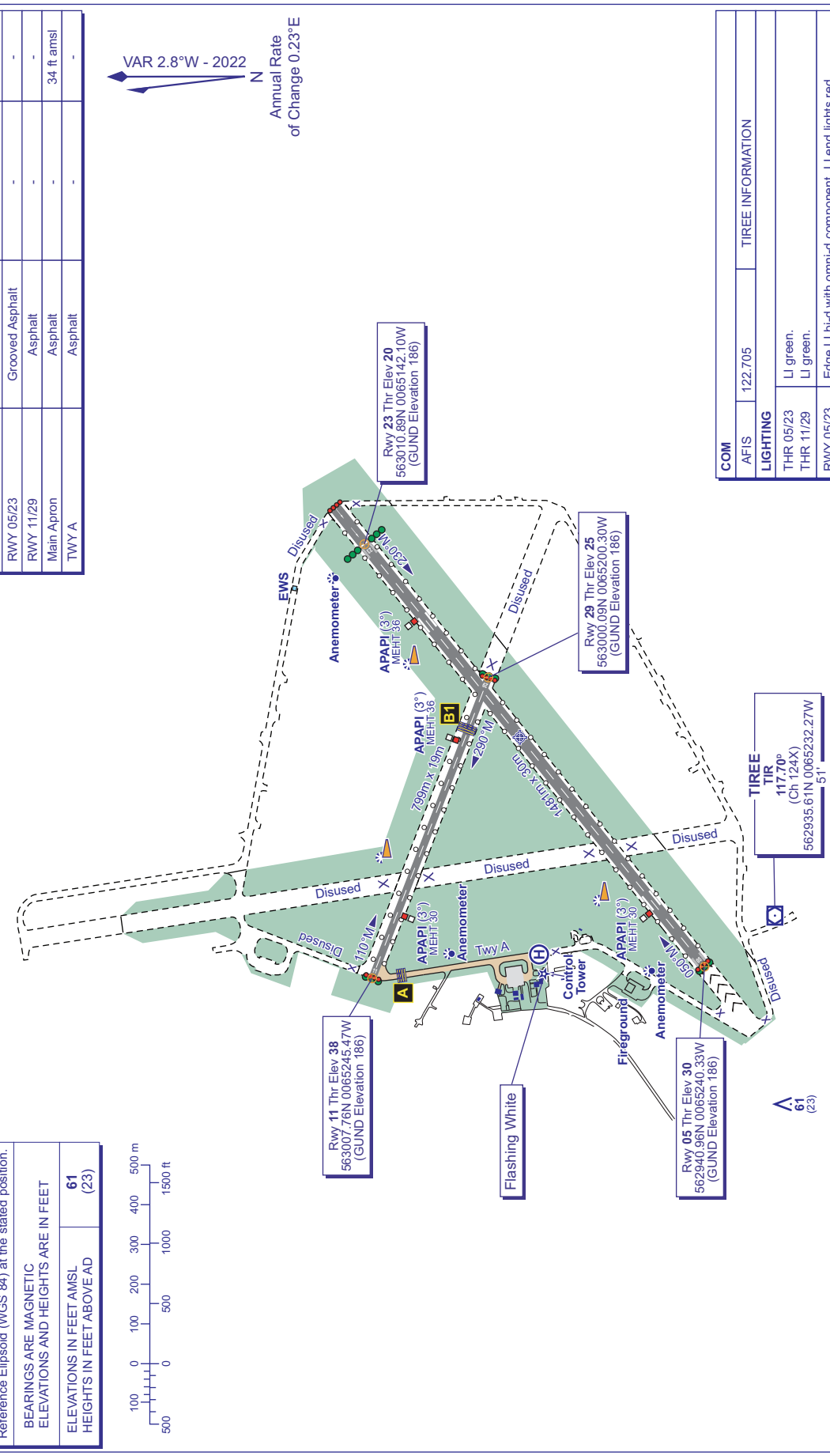
ARP 562957N 0065209W

AD ELEV 38FT

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 05/23	Grooved Asphalt	-	-
RWY 11/29	Asphalt	-	-
Main Apron	Asphalt	-	34 ft amsl
TWY A	Asphalt	-	-

VAR 2.8°W - 2022
Annual Rate of Change 0.23°E

COM		
AFIS	122.705	TIREE INFORMATION
LIGHTING		
THR 05/23	Ll green.	
THR 11/29	Ll green.	
RWY 05/23	Edge Ll bi-d with omni-d component. Ll end lights red.	
RWY 11/29	Edge Ll bi-d with omni-d component. Ll end lights red.	
TWY	TWY A edge blue.	



GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL 61
HEIGHTS IN FEET ABOVE AD (23)

100 0 100 200 300 400 500 m
500 0 500 1000 1500 ft

CHANGE (2/25): TIR VOR/DME COORD & ELEV.

AERO INFO DATE 02 DEC 24

AD 2-EGPU-2-1

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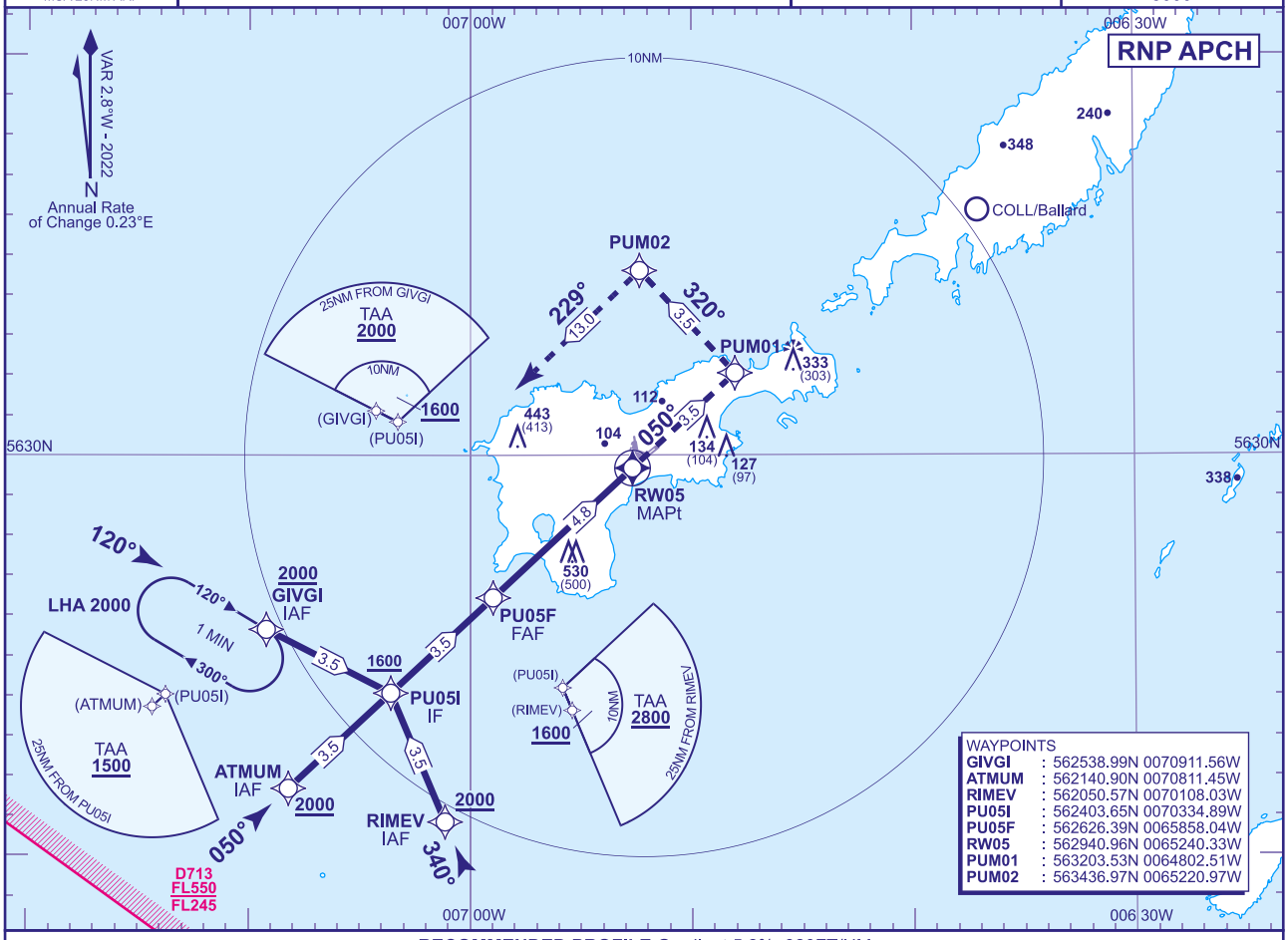
INSTRUMENT APPROACH CHART - ICAO

TIREE
RNP
RWY 05
(ACFT CAT A,B)

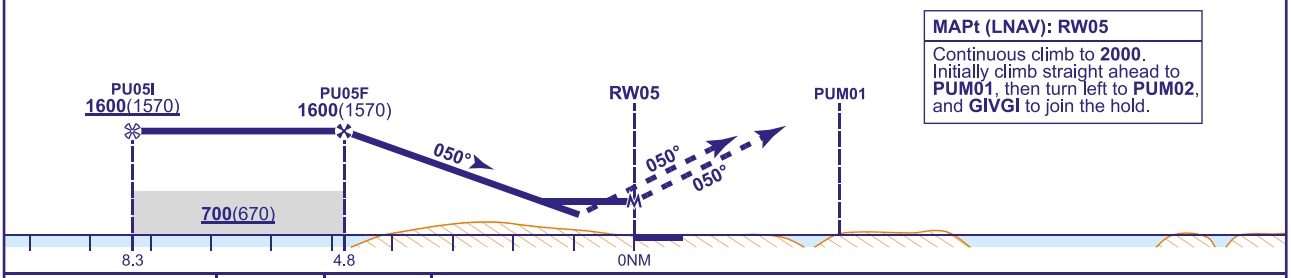
42 MSA 25NM ARP	AFIS 122.705	TIREE INFORMATION	AD ELEVATION 38
			THR ELEVATION 30
			OBSTACLE ELEVATION 530 AMSL (500) (ABOVE THR)
			BEARINGS ARE MAGNETIC
			TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

NM to RW05	4	3	2	1
ALT(HGT)	**1350**(1320)	**1040**(1010)	**720**(690)	**400**(370)

TCH 50



MAPt (LNAV): RW05
Continuous climb to **2000**. Initially climb straight ahead to **PUM01**, then turn left to **PUM02**, and **GIVGI** to join the hold.

Aircraft Category		A	B
OCA (OCH)	LNAV	**680**(650)	**680**(650)
VM(C)OCA (OCH AAL)	Total Area	**690**(652)	**690**(652)

NOTES
1 Use of this procedure is strictly PPR from the aerodrome operator.
2 Prior to commencing the procedure, pilots are to broadcast on AFIS 122.705 with flight details and intentions.

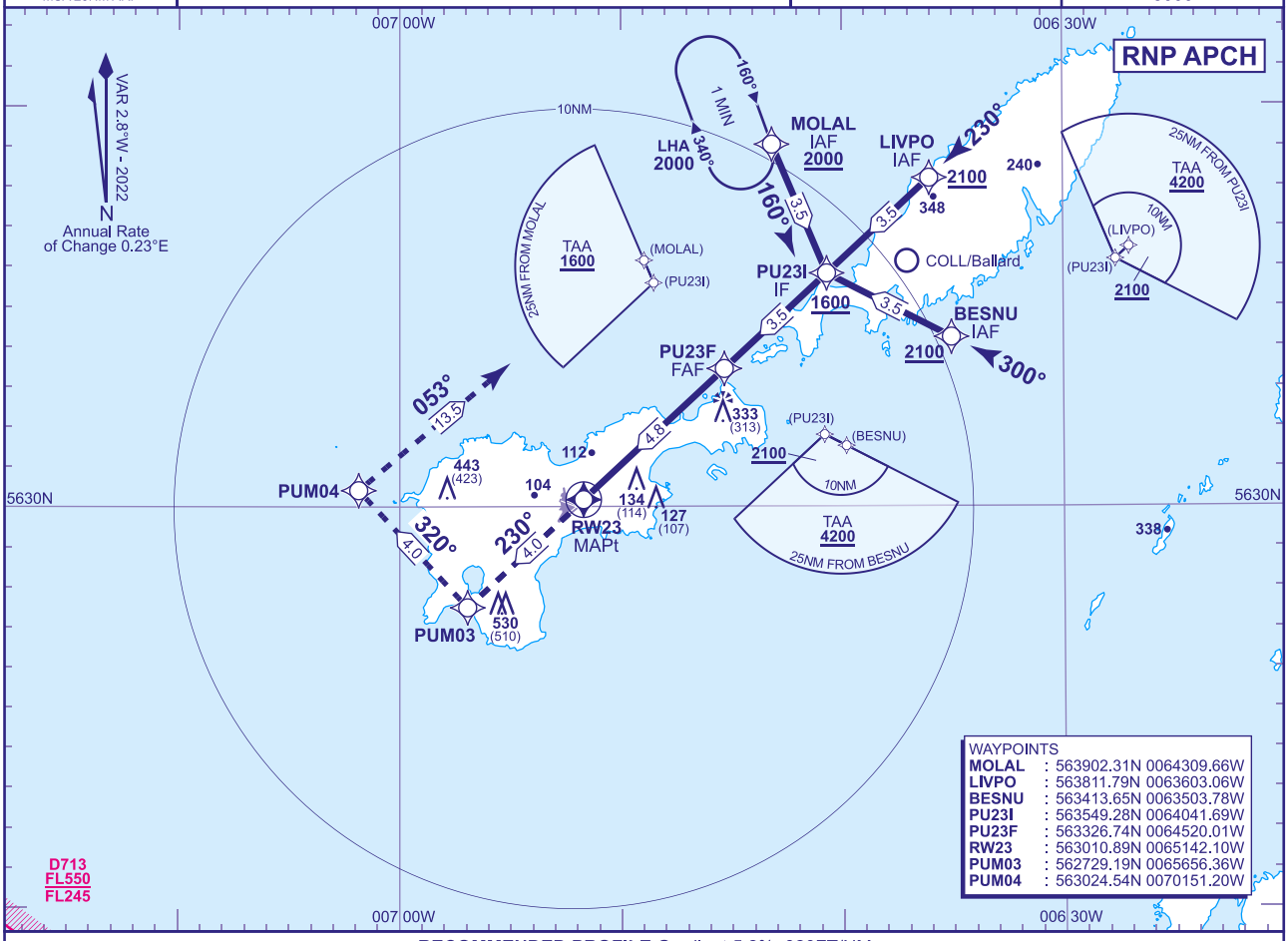
CHANGE (1/25): GIVGI HOLD AMENDED. EGD713 ADDED. SPECIFICATION CHANGE.

AERO INFO DATE 19 NOV 24

INSTRUMENT APPROACH CHART - ICAO

TIREE
RNP
RWY 23
(ACFT CAT A,B)

4₂ MSA 25NM ARP	AFIS 122.705	TIREE INFORMATION	AD ELEVATION 38
			THR ELEVATION 20
			OBSTACLE ELEVATION 530 AMSL (510) (ABOVE THR)
			BEARINGS ARE MAGNETIC
			TRANSITION ALTITUDE 3000

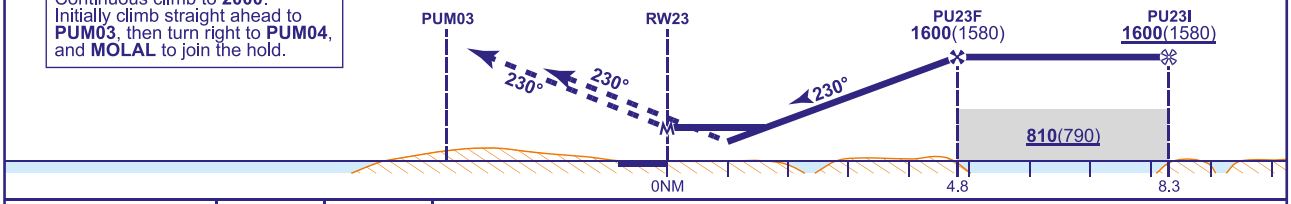


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

NM to RW23	4	3	2	1
ALT(HGT)	**1340**(1320)	**1020**(1000)	**710**(690)	**390**(370)

TCH 50

MAPt (LNAV): RW23
Continuous climb to **2000**.
Initially climb straight ahead to **PUM03**, then turn right to **PUM04**, and **MOLAL** to join the hold.



Aircraft Category		A	B
OCA (OCH)	LNAV	**520**(500)	**520**(500)
VM(C)OCA (OCH AAL)	Total Area	**540**(502)	**600**(562)

NOTES 1 Use of this procedure is strictly PPR from the aerodrome operator.
2 Prior to commencing the procedure, pilots are to broadcast on AFIS 122.705 with flight details and intentions.

CHANGE (1/25): SPECIFICATION CHANGE.

AERO INFO DATE 05 NOV 24
AD 2-EGPU-8-2

Instrument Approach Procedure Coding Tables

TIREE RNP RWY 05 - Instrument Approach Procedure via RIMEV

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R05R	001	IF	RIMEV	N	-	-	2000	-	562050.57N 0070108.03W	IAF
R05R	002	TF	PU05I	N	340° (337.1°)	RIGHT	1600	-	562403.65N 0070334.89W	IF / 8.3NM
R05R	003	TF	PU05F	N	050° (047.0°)	-	1600	-	562626.39N 0065858.04W	FAF / 4.8NM
R05R	004	TF	RW05	Y	050° (047.0°)	-	-	-	562940.96N 0065240.33W	MAPt
R05R	005	CF	PUM01	N	050° (047.1°)	LEFT	-	-	563203.53N 0064802.51W	-
R05R	006	TF	PUM02	N	320° (317.1°)	LEFT	-	-	563436.97N 0065220.97W	-
R05R	007	TF	GIVGI	Y	229° (226.2°)	-	2000	-	562538.99N 0070911.56W	HOLD

TIREE RNP RWY 05 - Instrument Approach Procedure via ATMUM

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R05C	001	IF	ATMUM	N	-	-	2000	-	562140.90N 0070811.45W	IAF
R05C	002	TF	PU05I	N	050° (047.0°)	-	1600	-	562403.65N 0070334.89W	IF / 8.3NM
R05C	003	TF	PU05F	N	050° (047.0°)	-	1600	-	562626.39N 0065858.04W	FAF / 4.8NM
R05C	004	TF	RW05	Y	050° (047.0°)	-	-	-	562940.96N 0065240.33W	MAPt
R05C	005	CF	PUM01	N	050° (047.1°)	LEFT	-	-	563203.53N 0064802.51W	-
R05C	006	TF	PUM02	N	320° (317.1°)	LEFT	-	-	563436.97N 0065220.97W	-
R05C	007	TF	GIVGI	Y	229° (226.2°)	-	2000	-	562538.99N 0070911.56W	HOLD

TIREE RNP RWY 05 - Instrument Approach Procedure via GIVGI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R05L	001	IF	GIVGI	N	-	-	2000	-	562538.99N 0070911.56W	IAF
R05L	002	TF	PU05I	N	120° (117.0°)	LEFT	1600	-	562403.65N 0070334.89W	IF / 8.3NM
R05L	003	TF	PU05F	N	050° (047.0°)	-	1600	-	562626.39N 0065858.04W	FAF / 4.8NM
R05L	004	TF	RW05	Y	050° (047.0°)	-	-	-	562940.96N 0065240.33W	MAPt
R05L	005	CF	PUM01	N	050° (047.1°)	LEFT	-	-	563203.53N 0064802.51W	-
R05L	006	TF	PUM02	N	320° (317.1°)	LEFT	-	-	563436.97N 0065220.97W	-
R05L	007	TF	GIVGI	Y	229° (226.2°)	-	2000	-	562538.99N 0070911.56W	HOLD

CHANGE (1/25): CHART SPECIFICATION.
AERO INFO DATE 05 NOV 24

Instrument Approach Procedure Coding Tables

TIREE RNP RWY 23 - Instrument Approach Procedure via MOLAL

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23R	001	IF	MOLAL	N	-	-	2000	-	563902.31N 0064309.66W	IAF
R23R	002	TF	PU23I	N	160° (157.1°)	RIGHT	1600	-	563549.28N 0064041.69W	IF / 8.31NM
R23R	003	TF	PU23F	N	230° (227.2°)	-	1600	-	563326.74N 0064520.01W	FAF / 4.81NM
R23R	004	TF	RW23	Y	230° (227.2°)	-	-	-	563010.89N 0065142.10W	MAPt
R23R	005	CF	PUM03	N	230° (227.1°)	RIGHT	-	-	562729.19N 0065656.36W	-
R23R	006	TF	PUM04	N	320° (317.1°)	RIGHT	-	-	563024.54N 0070151.20W	-
R23R	007	TF	MOLAL	Y	053° (050.0°)	-	2000	-	563902.31N 0064309.66W	HOLD

TIREE RNP RWY 23 - Instrument Approach Procedure via LIVPO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23C	001	IF	LIVPO	N	-	-	2100	-	563811.79N 0063603.06W	IAF
R23C	002	TF	PU23I	N	230° (227.2°)	-	1600	-	563549.28N 0064041.69W	IF / 8.31NM
R23C	003	TF	PU23F	N	230° (227.2°)	-	1600	-	563326.74N 0064520.01W	FAF / 4.81NM
R23C	004	TF	RW23	Y	230° (227.2°)	-	-	-	563010.89N 0065142.10W	MAPt
R23C	005	CF	PUM03	N	230° (227.1°)	RIGHT	-	-	562729.19N 0065656.36W	-
R23C	006	TF	PUM04	N	320° (317.1°)	RIGHT	-	-	563024.54N 0070151.20W	-
R23C	007	TF	MOLAL	Y	053° (050.0°)	-	2000	-	563902.31N 0064309.66W	HOLD

TIREE RNP RWY 23 - Instrument Approach Procedure via BESNU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R23L	001	IF	BESNU	N	-	-	2100	-	563413.65N 0063503.78W	IAF
R23L	002	TF	PU23I	N	300° (297.2°)	LEFT	1600	-	563549.28N 0064041.69W	IF / 8.31NM
R23L	003	TF	PU23F	N	230° (227.2°)	-	1600	-	563326.74N 0064520.01W	FAF / 4.81NM
R23L	004	TF	RW23	Y	230° (227.2°)	-	-	-	563010.89N 0065142.10W	MAPt
R23L	005	CF	PUM03	N	230° (227.1°)	RIGHT	-	-	562729.19N 0065656.36W	-
R23L	006	TF	PUM04	N	320° (317.1°)	RIGHT	-	-	563024.54N 0070151.20W	-
R23L	007	TF	MOLAL	Y	053° (050.0°)	-	2000	-	563902.31N 0064309.66W	HOLD

CHANGE (1/25): CHART SPECIFICATION.
AERO INFO DATE 05 NOV 24

EGNL — WALNEY

EGNL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNL — WALNEY

EGNL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 540743N Long: 0031603W Mid point of Runway 17/35.
2	Direction and distance from city	1.5 NM NW of Barrow-in-Furness.
3	Elevation / Reference temperature / Mean Low Temperature	44 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	173 FT
5	Magnetic Variation / Annual Change	0.01°E (2027) / 0.19°E
6	AD Administration Address Telephone AFS Web address	BAE SYSTEMS MARINE LTD MARITIME - SUBMARINES Walney Aerodrome, Barrow-in-Furness, Cumbria LA14 3TD. +44 (0)1229-474087 (ATS/Flight Operations) EGNLZTZX https://app.airportal.aero (Drone requests)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All telephone calls to ATS are recorded.

EGNL AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Thu 0700-1900 (0600-1800); Fri 0800-1700 (0700-1600); Sat-Sun closed. Closed Bank Holidays unless stated by NOTAM otherwise. All movements strictly PPR. All UAS movement requests in ATZ/FRZ/RPZ (non-emergency services) minimum 7 days.
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	Mon-Thu 0730-1900 (0630-1800); Fri 0830-1700 (0730-1600).
9	Handling	
10	Security	H24
11	De-icing	
12	Remarks	AD may close earlier than published if no company traffic expected. Visiting aircraft not accepted, unless by arrangement with AD authority.

EGNL AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (FSII additive not included).
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	No de-fuelling facilities available.

EGNL AD 2.5 PASSENGER FACILITIES

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EGNL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 1 (For BAE Systems Marine Ltd aircraft). RFF Category 1 (Approved flights only).
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGNL AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGNL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Concrete
2	Taxiway width, surface and strength	Taxiway ALPHA: 14 M Surface: Concrete Taxiway BRAVO: 14 M Surface: Asphalt Taxiway CHARLIE: 22 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	Taxiway C is subject to limited/restricted use or closure. Orange and white boards across the taxiway indicate the taxiway is closed. ATS will advise if the taxiway is available.

EGNL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 05/23: Runway designation, runway centre-line. 17/35: 17: Runway designation, runway centre-line. 35: Runway designation, runway centre-line, fixed distance, touchdown zone and runway threshold markings.
3	Stop bars and runway guard lights (if any)	Runway guard lights at holding points A and B.
4	Other runway protection measures	
5	Remarks	At night-time, taxiways with reflective markers may be used by aircraft which have a serviceable taxi or landing light which must be illuminated. It is the pilot's responsibility to refuse taxi clearance via these routes at night if not so equipped. Taxiways without powered lighting will not be used in either visibility or RVR of 1500 M or less at night. Holding point indicator signs. WDI near threshold of Runways 05 and 35 - 540731.23N 0031546.48W (LGTD).

EGNL AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNL3109) 23/APPROACH 05/ TAKE-OFF	WIND TURBINE	541014.70N 0031115.37W	540 FT	144 FT	No	
(EGNL3301) 23/APPROACH 05/ TAKE-OFF	MAST	541014.56N 0031122.37W	498 FT	94 FT	No	
(EGNL3063) 23/APPROACH 05/ TAKE-OFF	MAST	540940.44N 0031050.90W	387 FT	159 FT	No	
(EGNL1007) 23/APPROACH 05/ TAKE-OFF	PYLON	540813.46N 0031416.71W	148 FT	99 FT	No	
(EGNL1483) 17/APPROACH 35/ TAKE-OFF	LLZ HUT	540804.69N 0031611.70W	43 FT	8 FT	No	
(EGNL3889) 17/APPROACH 35/ TAKE-OFF	LLZ OBS	540804.51N 0031612.63W	45 FT	11 FT	Yes Red	
(EGNL3800) 23/APPROACH 05/ TAKE-OFF	TERRAIN	540803.36N 0031435.14W	71 FT		No	
(EGNL3905) 35/APPROACH 17/ TAKE-OFF	FENCE	540721.35N 0031553.09W	49 FT	3 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNL3669)	WIND TURBINE	541240.09N 0030933.64W	1173 FT	208 FT	No	
(EGNL3073)	WIND TURBINE	541124.08N 0031042.40W	731 FT	209 FT	No	
(EGNL3072)	WIND TURBINE	541121.27N 0031053.64W	618 FT	210 FT	No	
(EGNL3074)	WIND TURBINE	541119.47N 0031030.33W	756 FT	199 FT	No	
(EGNL3071)	MAST	541119.41N 0031048.61W	577 FT	138 FT	No	
(EGNL3070)	WIND TURBINE	541117.81N 0031045.28W	659 FT	202 FT	No	
(EGNL3069)	WIND TURBINE	541113.74N 0031032.42W	720 FT	197 FT	No	
(EGNL3068)	WIND TURBINE	541107.41N 0031034.06W	683 FT	200 FT	No	
(EGNL3067)	PYLON	541102.82N 0031034.10W	536 FT	84 FT	No	
(EGNL3066)	WIND TURBINE	541059.81N 0031034.60W	634 FT	208 FT	No	
(EGNL3201)	WIND TURBINE	541052.59N 0031005.02W	556 FT	114 FT	Yes Red	
(EGNL1296)	PYLON	541043.18N 0030958.50W	535 FT	97 FT	No	
(EGNL1294)	PYLON	541035.98N 0030945.49W	523 FT	94 FT	No	
(EGNL3203)	WIND TURBINE	541033.55N 0030952.93W	560 FT	115 FT	Yes Red	
(EGNL1297)	PYLON	541031.96N 0030955.49W	534 FT	104 FT	No	
(EGNL3464)	INDUSTRIAL CHIMNEY	540910.09N 0031319.02W	209 FT	91 FT	No	
(EGNL3884)	MAST	540906.16N 0031327.75W	184 FT	75 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNL3440)	HV PYLON	540858.90N 0031349.68W	173 FT	97 FT	No	
(EGNL3608)	FLOODLIGHT	540834.41N 0031303.49W	284 FT	53 FT	No	
(EGNL1243)	FLOODLIGHT	540834.16N 0031307.18W	290 FT	53 FT	No	
(EGNL1242)	FLOODLIGHT	540831.91N 0031306.93W	290 FT	53 FT	No	
(EGNL4100)	INDUSTRIAL CHIMNEY	540831.15N 0031358.13W	219 FT	150 FT	Yes Red	
(EGNL1511)	CHIMNEY	540807.10N 0031231.79W	249 FT	85 FT	No	
(EGNL1201)	CHURCH	540755.74N 0031335.75W	250 FT	60 FT	No	
(EGNL3870)	MAST	540748.55N 0031329.86W	263 FT	57 FT	No	
(EGNL3984)	HV PYLON	540738.03N 0031406.29W	228 FT	161 FT	No	
(EGNL1222)	CHURCH	540718.72N 0031308.76W	183 FT	103 FT	No	
(EGNL3045)	CHURCH	540708.65N 0031400.50W	237 FT	163 FT	No	
(EGNL3093)	CHIMNEY	540614.12N 0031414.29W	266 FT	228 FT	Yes Red	

EGNL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. English
7	Charts and other information available for briefing or consultation	Self-briefing by phone.
8	Supplementary equipment available for providing information	Standby systems available.
9	ATS units provided with information	WALNEY
10	Additional information (limitation of service, etc.)	Walney provides unofficial Met observations half-hourly during aerodrome operating hours.

EGNL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05					THR 37.0 FT	
23					THR 25.6 FT	
17	166.10°	1011 x 44 M	RWY surface: Asphalt PCN 5/R/A/Y/T	540759.25N 0031609.47W 173.4 FT	THR 33.0 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
35	346.11°	1011 x 44 M	RWY surface: Asphalt PCN 5/R/A/Y/T	540727.50N 0031556.09W 173.4 FT	THR 43.7 FT TDZ 43.7 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 05 Unlicensed.
						RWY 23 Unlicensed.
	188 x 150 M	1191 x 150 M	90 x 90 M 90 x 90 M			RWY 17
	133 x 150 M	1191 x 150 M	90 x 90 M 90 x 90 M			RWY 35 Runway 35 has a starter extension of 60 x 22 M.

EGNL AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
17	1011 M	1199 M	1011 M	1011 M	
35	1058 M	1191 M	1058 M	998 M	TORA, TODA and ASDA include a starter extension of 60 x 22 M.

EGNL AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
05		Green Elevated uni-directional with green wingbars	PAPI Left/3.5° 41 FT 85 M			HI bi-directional with LI omni-directional component	Red		
23		Elevated green wingbars	PAPI Left/3.5° 22 FT 110 M			HI bi-directional with LI omni-directional component	Red		
17		Green With elev green wingbars	PAPI Right/ 3.5° 39 FT 110 M			HI Bi-directional with LI omni-directional component	Red		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
35	Uni-directional centre-line with two crossbars. 420 M Light intensity high	Green With elev green wingbars	PAPI Left/3.5° 33 FT 190 M			HI Bi-directional with LI omni-directional component. Last third uni-directional amber.	Red		

EGNL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 540732.55N 0031602.81W (LGTD).
3	TWY edge and centre line lighting	EDGE: Taxiway Alpha, from Runway 05/23 has blue edge lights until the link to the apron which is unlit but the edges marked with brightly coloured/reflective plastic marker posts. Taxiway Bravo is unlit but the edges are marked with brightly coloured/reflective plastic marker posts.
4	Secondary power supply/switch-over time	
5	Remarks	The main apron is floodlit.

EGNL AD 2.16 HELICOPTER LANDING AREA

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EGNL AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WALNEY ATZ A circle, 2 NM radius, centred at 540752N 0031548W on the mid-point of the longest runway	Upper limit: 2000 FT AGL Lower limit: SFC	G	WALNEY INFORMATION English	3000 FT		Caution: Requirements for access to EGR445 as detailed in the UK AIP remain extant.

EGNL AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	WALNEY INFORMATION	118.080 DOC 25 NM/ 10,000 FT.			Mon-Thu 0700-1900 (0600-1800); Fri 0800-1700 (0700-1600); Sat-Sun closed. Closed Bank Holidays unless stated by NOTAM otherwise.	ATZ hours coincident with AFIS hours.

EGNL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.01°E (2027)	IWL	110.150 MHz	Mon-Thu 0700-1900 (0600-1800); Fri 0800-1700 (0700-1600); Sat-Sun closed. Closed Bank Holidays unless stated by NOTAM otherwise.	540804.58N 0031611.71W		(RWY 35) DME instead of markers.
ILS/GP	IWL	334.250 MHz	Mon-Thu 0700-1900 (0600-1800); Fri 0800-1700 (0700-1600); Sat-Sun closed. Closed Bank Holidays unless stated by NOTAM otherwise.	540732.55N 0031602.81W		3.5° ILS Ref Datum Hgt 33 FT.
NDB (L) 0.01°E (2027)	WL	385.000 kHz	Mon-Thu 0700-1900 (0600-1800); Fri 0800-1700 (0700-1600); Sat-Sun closed. Closed Bank Holidays unless stated by NOTAM otherwise.	540738.72N 0031552.02W		On AD. Range 25 NM. Normally radiates H24.
ILS/DME	IWL	38Y 110.150 MHz	Mon-Thu 0700-1900 (0600-1800); Fri 0800-1700 (0700-1600); Sat-Sun closed. Closed Bank Holidays unless stated by NOTAM otherwise.	540737.80N 0031552.61W	52 FT	(RWY 35) On AD. DME freq paired with LOC I-WL. Zero range is indicated at THR of Runway 35. DOC 25 NM/10,000 FT.

EGNL AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) No aircraft is permitted to land at Walney, except in an emergency, when ATS is not available.
b) Use of ILS/NDB/RNP (including training) is strictly PPR.
c) Aircraft that use the ILS Glidepath element for descent must comply with a local ILS RDH requirement that the glidepath receiver antennas on the aircraft and the distance to the lowest part of a fully extended undercarriage must not exceed two metres.
d) Non-radio aircraft not accepted.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Pilots must avoid the EGR445 Barrow-in-Furness. A circle radius 0.5 NM centred on 540635N 0031410W SFC to 2000 FT ALT.
b) Poor R/T coverage at low level to the north - east north east of the AD due topography.
c) Runway 23 Night-time approaches: Aircraft are warned not to descend below the indicated PAPI "on-slope" indication due to an obstruction-chimney (219 FT - Lit) on approach. As described in EGNL AD 2.10, Obstructions - in circling area and at aerodrome.
d) Windshear warning - pilots are warned that windshear can occur on final approach over Walney Channel to the threshold Runway 23, especially when the tide is out and the surface wind is down Runway 23 at a speed of 15-20 KT.
e) Multiple cranes operating within an area bounded by co-ordinates: 540633.6N 0031340.6W - 540618.3N 0031257.6W - 540608.6N 0031313.7W - 540618.2N 0031350.0W - 540603.0N 0031402.2W - 540611.0N 0031417.3W - 540626.4N 0031427.6W - 540637.0N 0031425.2W - 540642.4N 0031420.2W - 540633.6N 0031340.6W. Maximum Elevation 335 FT. Height 308 FT AGL. All cranes will have obstruction lighting.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Runway 05/23 is an unlicensed runway.

7 TRAINING

Not applicable

EGNL AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGNL AD 2.22 FLIGHT PROCEDURES

1 PROCEDURES FOR INBOUND AIRCRAFT

a) Aircraft arriving from the south for a straight-in approach to the instrument approach procedures to Runway 35 should route via:

Name	Co-ordinates	Terminal Area
TUNUP	535548N 0031103W	EGNL RWY 35 IAF ILS/DME/NDB(L), LOC/DME/NDB(L) and NDB(L)/DME

2 COMMUNICATIONS & SSR

a) Aircraft in communication with Walney ATS may be allocated a conspicuity squawk of 4576. Aircraft must not select this squawk unless instructed to do so by ATS.
b) Aircraft remaining in the circuit at Walney will be allocated a conspicuity squawk of 7010. Aircraft must not select this squawk unless instructed to do so by ATS.
c) Allocation of these conspicuity squawks does not constitute any radar service.

EGNL AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNL AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNL-2-1
INSTRUMENT APPROACH CHART RNP RWY 17 (CAT A,B) - ICAO
AD 2.EGNL-8-1
INSTRUMENT APPROACH CHART ILS/DME/NDB(L) RWY 35 (CAT B) - ICAO
AD 2.EGNL-8-2
INSTRUMENT APPROACH CHART LOC/DME/NDB(L) RWY 35 (CAT B) - ICAO
AD 2.EGNL-8-3
INSTRUMENT APPROACH CHART RNP RWY 35 (CAT A,B) - ICAO
AD 2.EGNL-8-4
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 35 (CAT B) - ICAO
AD 2.EGNL-8-5
INSTRUMENT APPROACH CHART NDB(L)/DME TO AERODROME (CAT B) - ICAO
AD 2.EGNL-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 17
AD 2.EGNL-8-7
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 35
AD 2.EGNL-8-8

EGNL AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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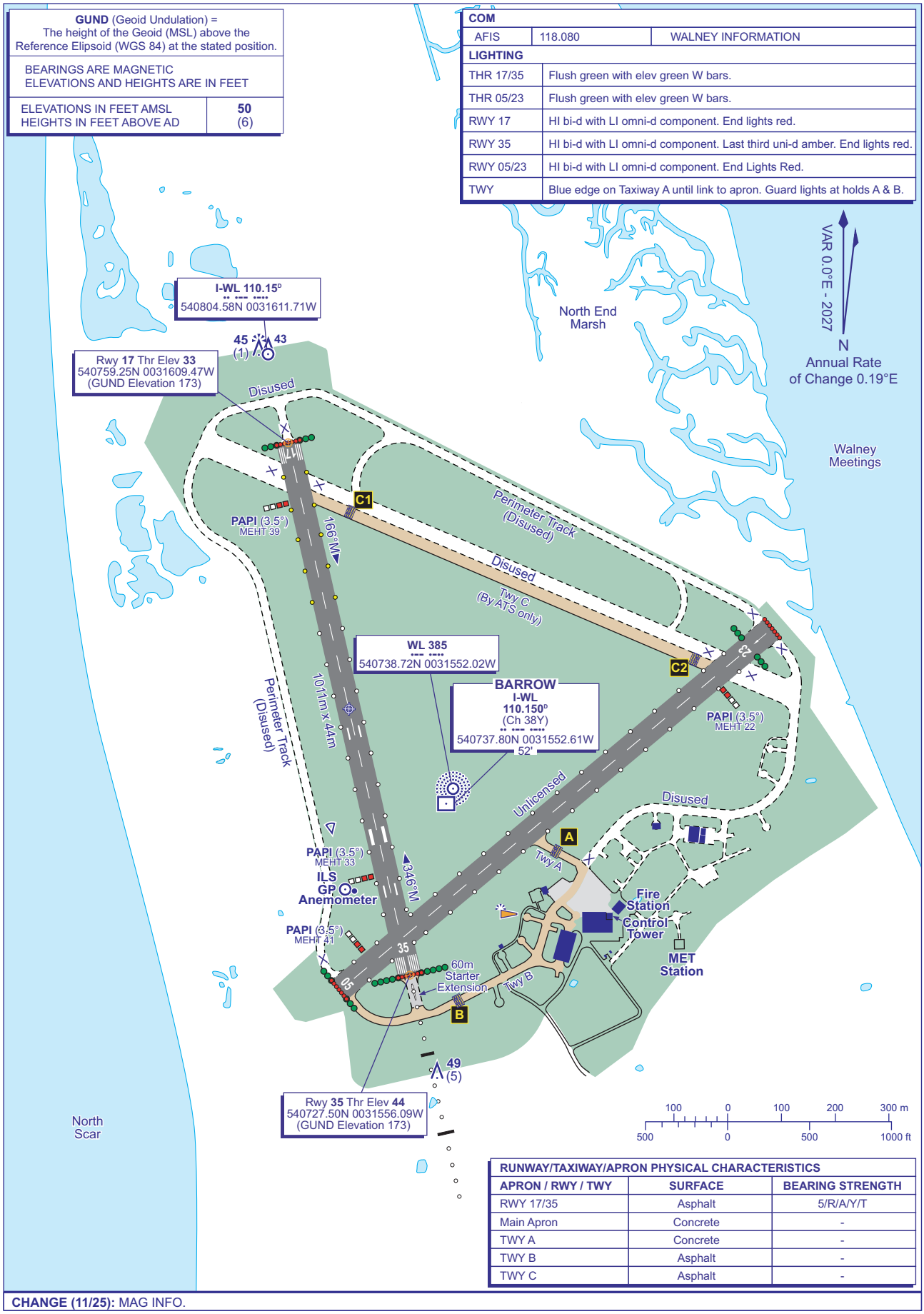
AERODROME CHART - ICAO

ARP 540743N 0031603W

AD ELEV 44FT

WALNEY
EGNL



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	BEARING STRENGTH
RWY 17/35	Asphalt	5/R/A/Y/T
Main Apron	Concrete	-
TWY A	Concrete	-
TWY B	Asphalt	-
TWY C	Asphalt	-

CHANGE (11/25): MAG INFO.

AERO INFO DATE 05 AUG 25

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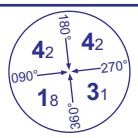
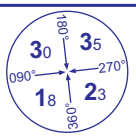
INSTRUMENT APPROACH CHART - ICAO

WALNEY
RNP
RWY 17
(ACFT CAT A,B)



MSA 25NM NDB(L) WL

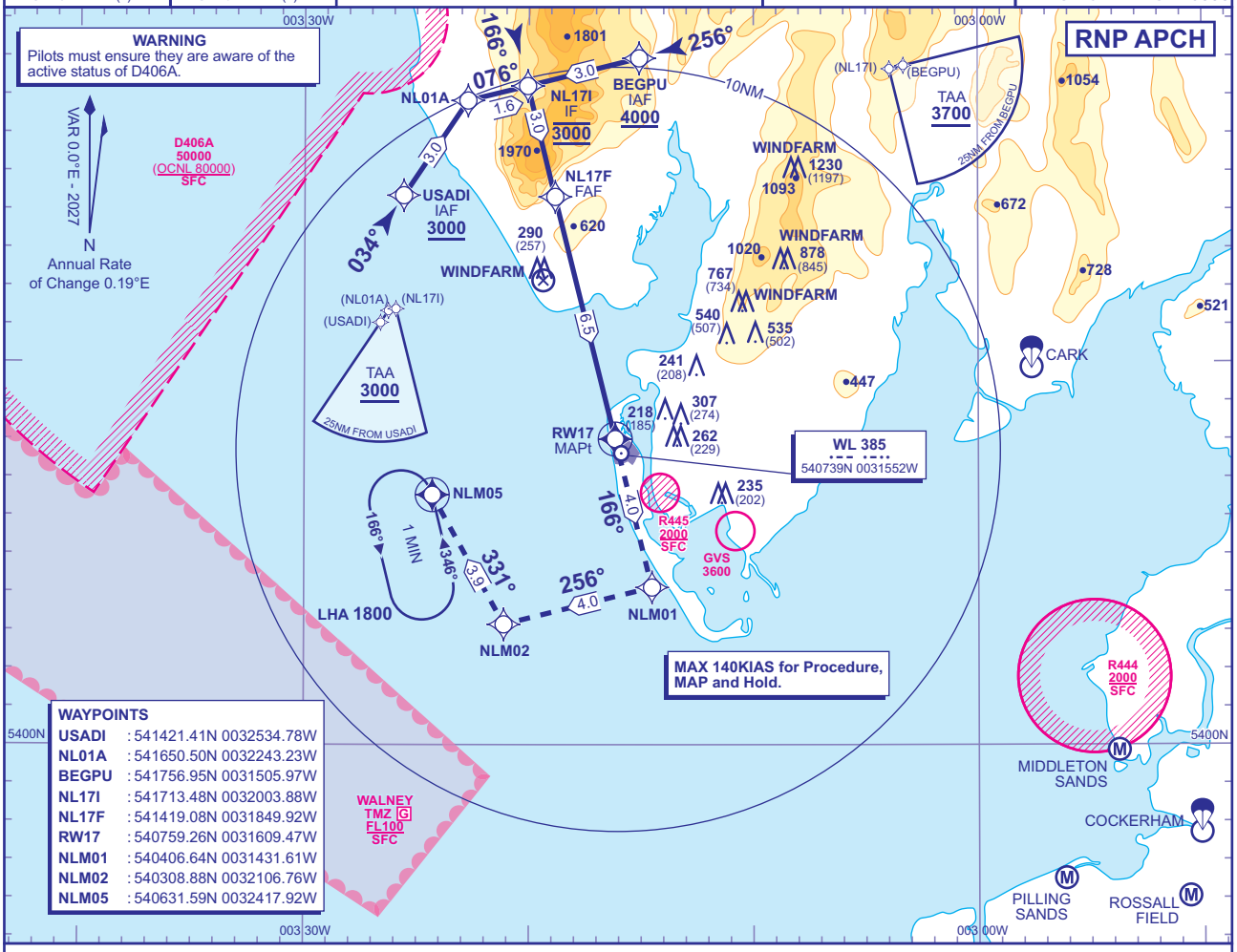


MSA 10NM NDB(L) WL

AFIS	118.080	WALNEY INFORMATION	
AD ELEVATION	44		
THR ELEVATION	33		
OBSTACLE ELEVATION 1230 AMSL (1197) (ABOVE THR)			
BEARINGS ARE MAGNETIC			

MIN TEMP -10°C

TRANSITION ALTITUDE 3000



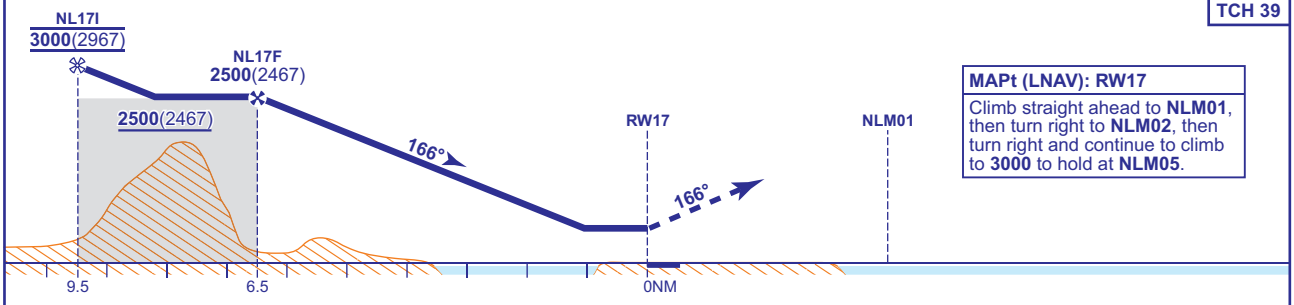
WAYPOINTS

USADI	541421.41N 0032534.78W
NL01A	541650.50N 0032243.23W
BEGPU	541756.95N 0031505.97W
NL17I	541713.48N 0032003.88W
NL17F	541419.08N 0031849.92W
RW17	540759.26N 0031609.47W
NLM01	540406.64N 0031431.61W
NLM02	540308.88N 0032106.76W
NLM05	540631.59N 0032417.92W

RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.5° (LNAV 6.1% 372FT/NM)

NM to RW17	6	5	4	3	2
ALT(HGT)	**2310**(2277)	**1940**(1907)	**1560**(1527)	**1190**(1157)	**820**(787)

TCH 39



MAPt (LNAV): RW17

Climb straight ahead to **NLM01**, then turn right to **NLM02**, then turn right and continue to climb to **3000** to hold at **NLM05**.

Aircraft Category		A	B
OCA (OCH)	LNAV	**880**(847)	**880**(847)
	LNAV/VNAV	**540**(507)	**540**(507)
VM(C)OCA (OCH AAL)	Total Area	**700**(656)	**700**(656)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTES
1. WARNING: High terrain in the intermediate segment. Do not descend below **2500** before reaching the FAF.
2. Arrivals from the north route via BEGPU at **4200**. Arrival via NL17I not available.
3. Subsequent Approach after a MAP is only available via USADI.
4. Use of this procedure is strictly PPR from the aerodrome operator.

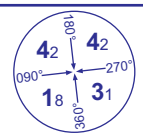
CHANGE (11/25): MAG VAR. MAG TRACKS.

AERO INFO DATE 22 AUG 25

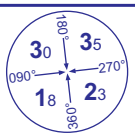
AD 2-EGNL-8-1

INSTRUMENT APPROACH CHART - ICAO

WALNEY
ILS/DME/NDB(L)
RWY 35
(ACFT CAT B)



MSA 25NM NDB(L) WL

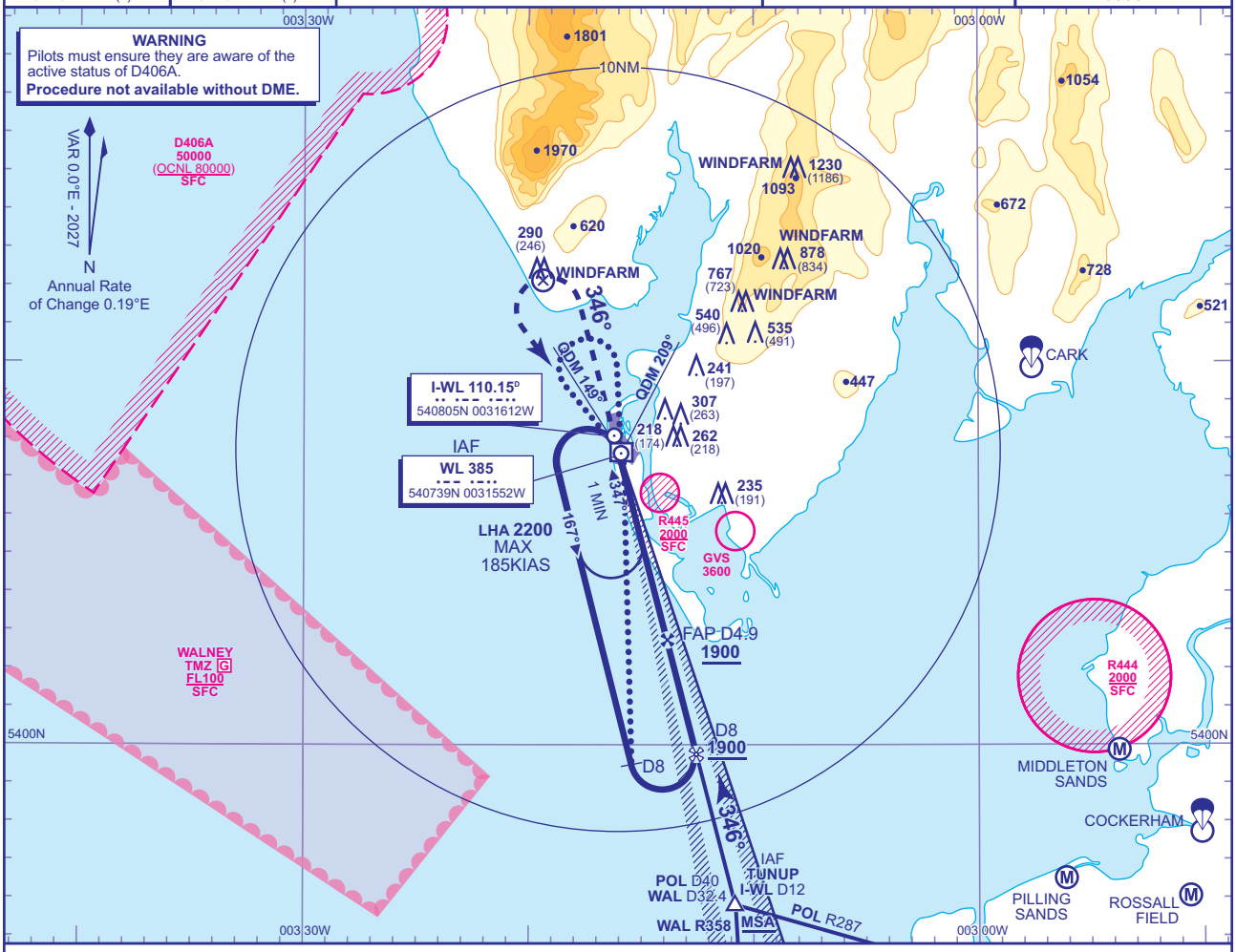


MSA 10NM NDB(L) WL

AFIS 118.080	WALNEY INFORMATION

AD ELEVATION	44
THR ELEVATION	44
OBSTACLE ELEVATION **1230 AMSL** (1186) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

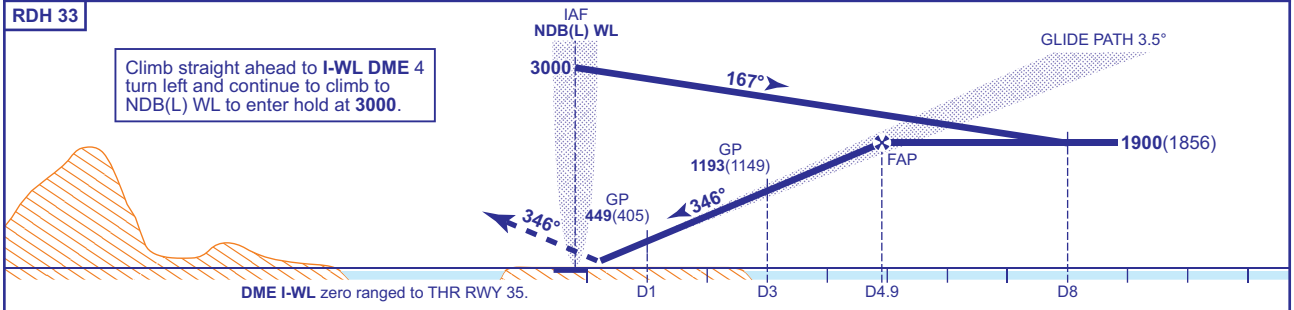


RECOMMENDED PROFILE GLIDE PATH 3.5°, 372FT/NM

DME I-WL	4	3	2	1
ALT(HGT)	**1565**(1521)	**1193**(1149)	**821**(777)	**449**(405)

RDH 33

Climb straight ahead to **I-WL DME** 4 turn left and continue to climb to NDB(L) WL to enter hold at **3000**.



Aircraft Category		**B**
OCA (OCH)	**CAT I**	**216**(172)
VM(C)OCA (OCH AAL)	**Total Area**	**700**(656)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE BASE TURN PROCEDURE AFTER HOLDING
From overhead NDB(L) WL **not below 2300** fly outbound on NDB(L) WL QDR 321° for 1 MIN, baseturn right and manoeuvre onto NDB(L) WL QDM 178° to overhead NDB(L) WL. Continue outbound on NDB(L) WL QDR 178° descending **not below 1900**. At I-WL DME 8 baseturn left to intercept the LOC, continue as for main procedure.

ALTERNATIVE BASE TURN PROCEDURE DIRECT ENTRY
Arrive overhead NDB(L) WL **not below MSA,** only within sector entry between NDB(L) WL QDM 149° and QDM 209°. Fly outbound on NDB(L) WL QDR 178° descending **not below 1900.** At I-WL DME 8 baseturn left to intercept the LOC, continue as for main procedure.

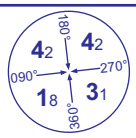
NOTE Use of this procedure is strictly PPR from the aerodrome operator.

CHANGE (11/25): MAG VAR. MAG TRACKS.

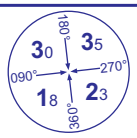
AERO INFO DATE 11 AUG 25 AD 2-EGNL-8-2

INSTRUCTION APPROACH CHART - ICAO

WALNEY
LOC/DME/NDB(L)
RWY 35
(ACFT CAT B)



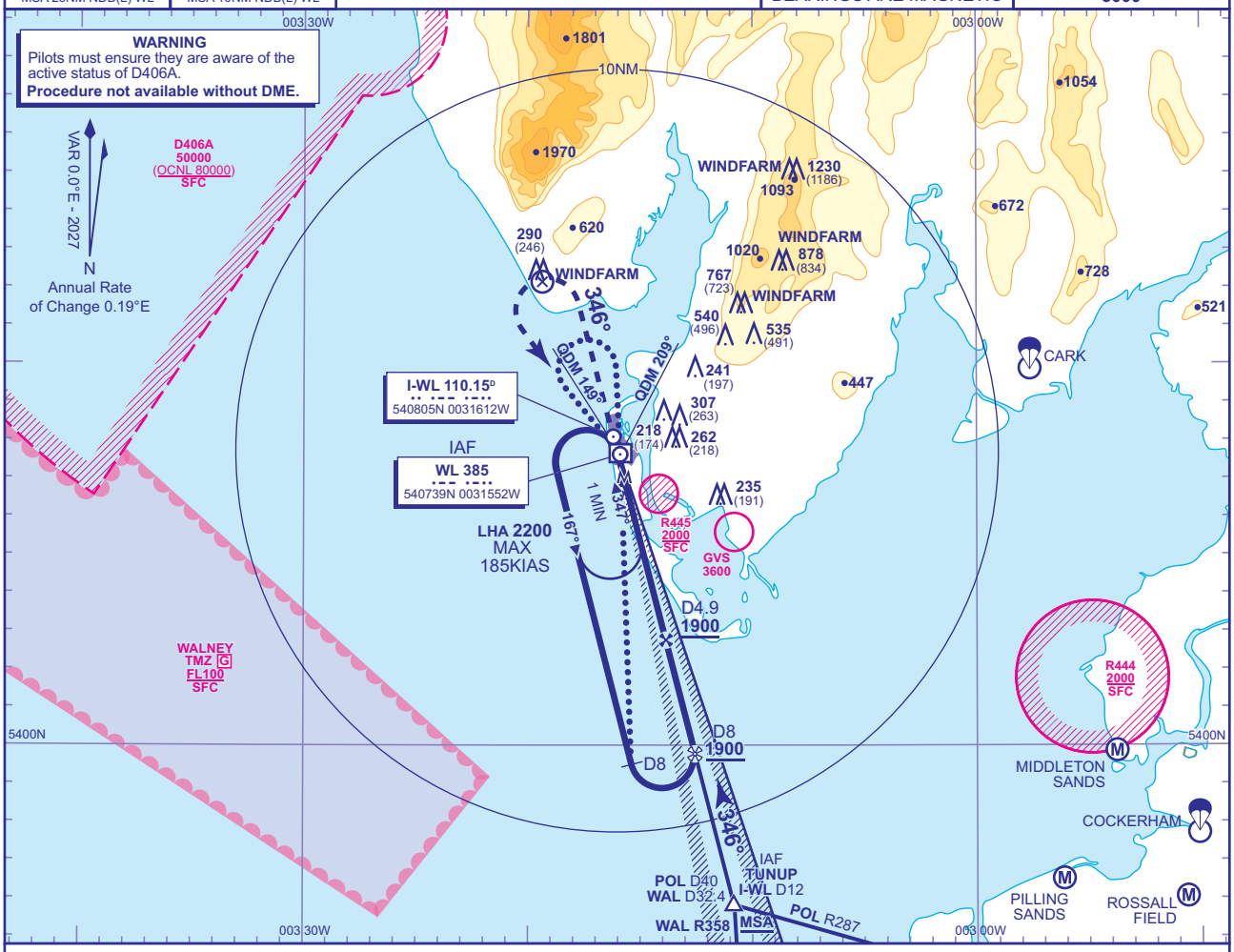
MSA 25NM NDB(L) WL



MSA 10NM NDB(L) WL

AFIS 118.080	WALNEY INFORMATION	AD ELEVATION	44
		THR ELEVATION	44
		OBSTACLE ELEVATION 1230 AMSL (1186) (ABOVE THR)	
		BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

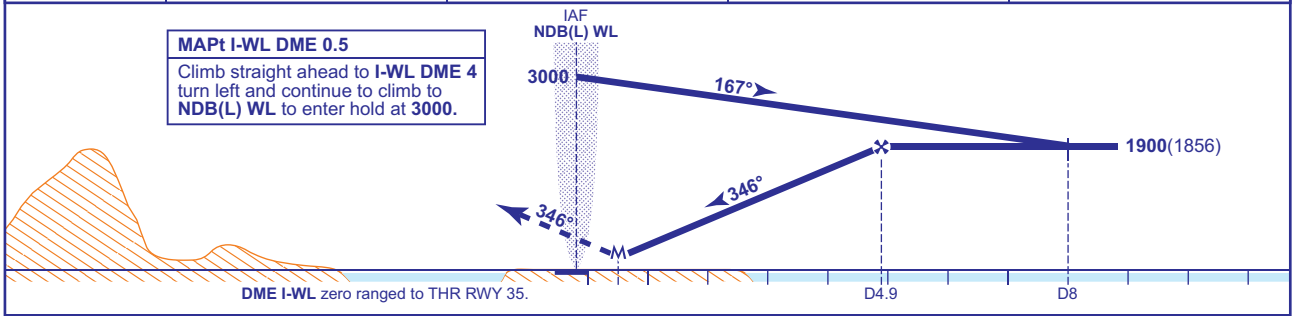


RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

DME I-WL	4	3	2	1
ALT(HGT)	**1565**(1521)	**1193**(1149)	**821**(777)	**449**(405)

MAPt I-WL DME 0.5

Climb straight ahead to **I-WL DME 4** turn left and continue to climb to **NDB(L) WL** to enter hold at **3000.**



Aircraft Category		B
OCA (OCH)	**Procedure**	**380**(336)
VM(C)OCA (OCH AAL)	**Total Area**	**700**(656)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE BASE TURN PROCEDURE AFTER HOLDING

From overhead NDB(L) WL **not below 2300** fly outbound on NDB(L) WL QDR 321° for 1 MIN, baseturn right and manoeuvre onto NDB(L) WL QDM 178° to overhead NDB(L) WL. Continue outbound on NDB(L) WL QDR 178° descending **not below 1900.** At I-WL DME 8 baseturn left to intercept the LOC, continue as for main procedure.

ALTERNATIVE BASE TURN PROCEDURE DIRECT ENTRY

Arrive overhead NDB(L) WL **not below MSA**, only within sector entry between NDB(L) WL QDM 149° and QDM 209°. Fly outbound on NDB(L) WL QDR 178° descending **not below 1900.** At I-WL DME 8 baseturn left to intercept the LOC, continue as for main procedure.

NOTE Use of this procedure is strictly PPR from the aerodrome operator.

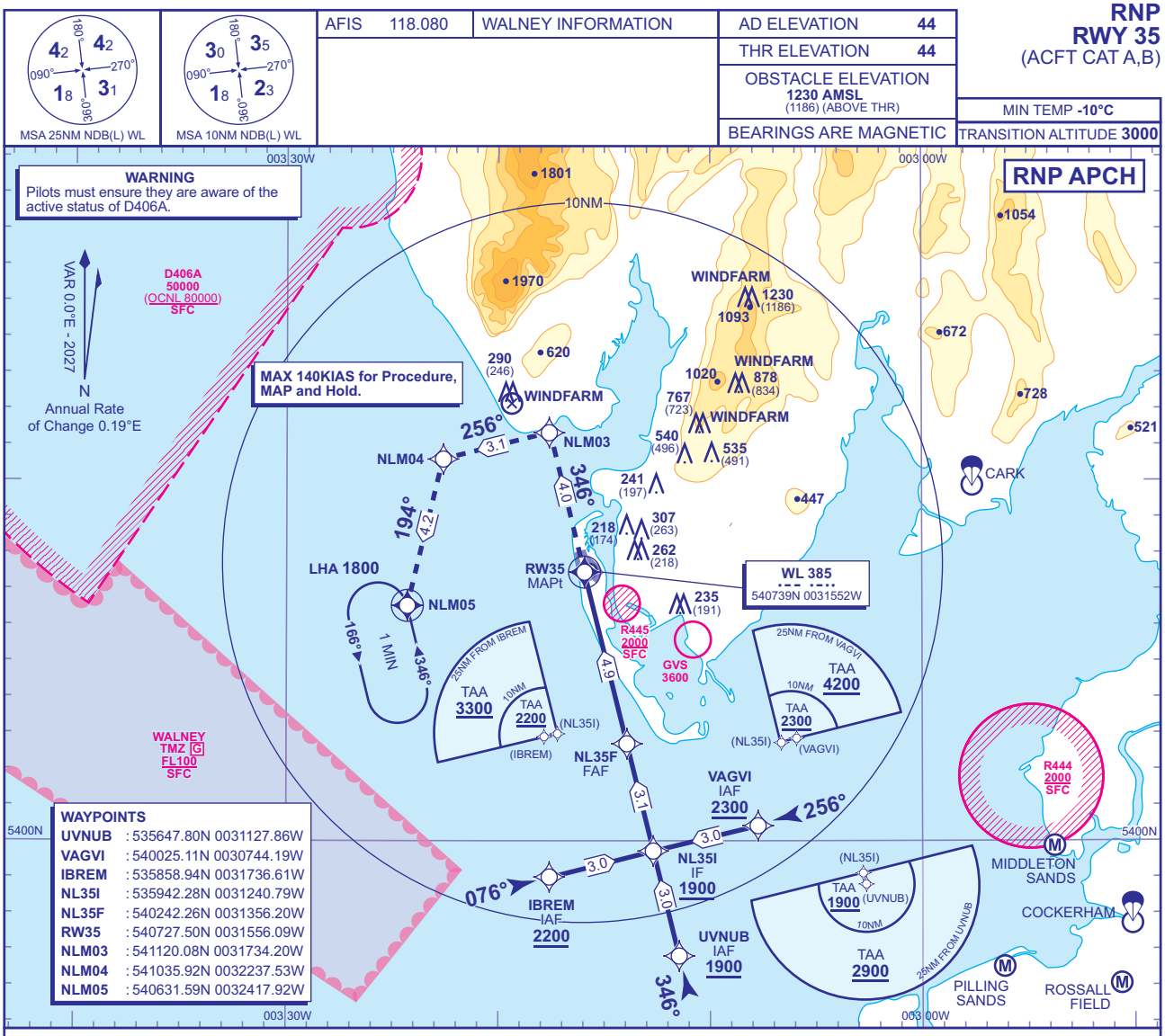
CHANGE (11/25): MAG VAR. MAG TRACKS.

AERO INFO DATE 11 AUG 25

I

INSTRUMENT APPROACH CHART - ICAO

WALNEY
RNP
RWY 35
(ACFT CAT A,B)



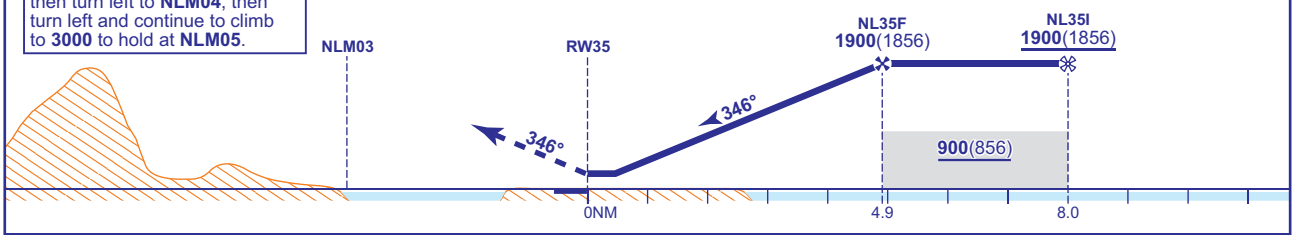
RECOMMENDED PROFILE VNAV - VERTICAL PATH ANGLE 3.5° (LNAV 6.1% 372FT/NM)

NM to RW35	4	3	2	1
ALT(HGT)	**1570**(1526)	**1200**(1156)	**830**(786)	**450**(406)

TCH 33

MAPt (LNAV): RW35

Climb straight ahead to **NLM03**, then turn left to **NLM04**, then turn left and continue to climb to **3000** to hold at **NLM05**.



Aircraft Category		A	B
OCA (OCH)	LNAV	**430**(386)	**430**(386)
	LNAV/VNAV	**300**(256)	**300**(256)
VM(C)OCA (OCH AAL)	Total Area	**700**(656)	**700**(656)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	990	870	740	620	500

NOTE Use of this procedure is strictly PPR from the aerodrome operator.

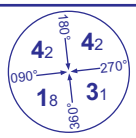
CHANGE (11/25): MAG VAR. MAG TRACKS.

AERO INFO DATE 22 AUG 25

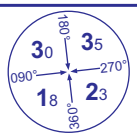
AD 2-EGNL-8-4

INSTRUMENT APPROACH CHART - ICAO

WALNEY NDB(L)/DME RWY 35
(ACFT CAT B)



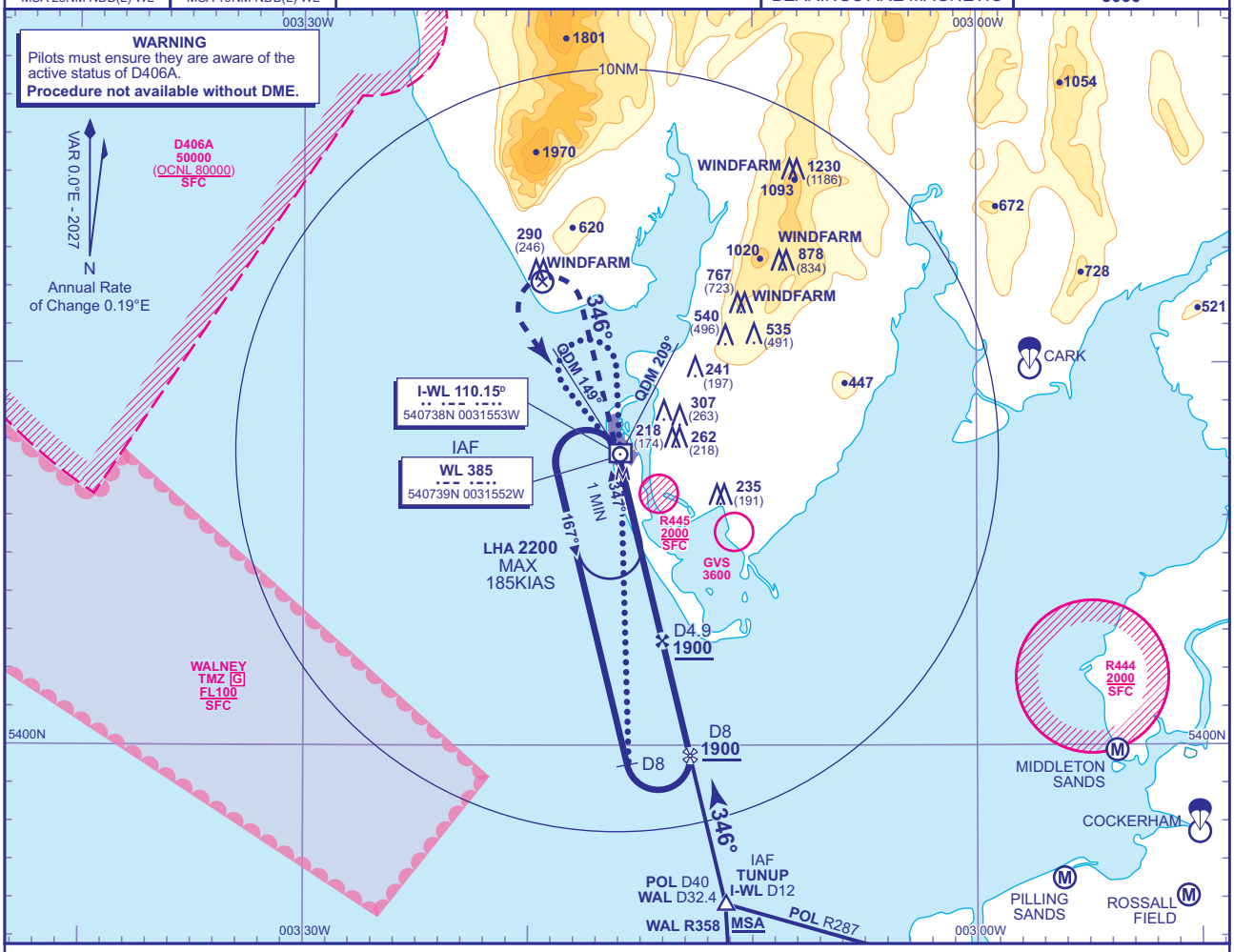
MSA 25NM NDB(L) WL



MSA 10NM NDB(L) WL

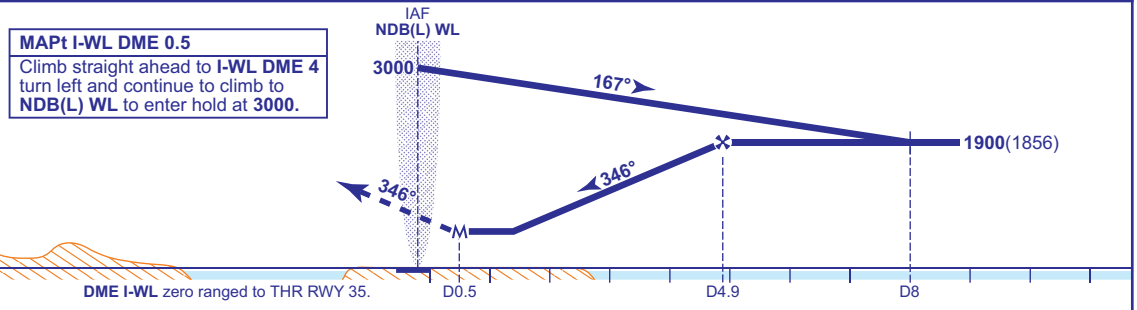
AFIS 118.080	WALNEY INFORMATION	AD ELEVATION 44
		THR ELEVATION 44
		OBSTACLE ELEVATION 1230 AMSL (1186) (ABOVE THR)
		BEARINGS ARE MAGNETIC

TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 6.12%, 372FT/NM

DME I-WL	4	3	2
ALT(HGT)	**1565**(1521)	**1193**(1149)	**821**(777)



MAPt I-WL DME 0.5
Climb straight ahead to **I-WL DME 4** turn left and continue to climb to **NDB(L) WL** to enter hold at **3000.**

Aircraft Category		**B**
OCA (OCH)	**Procedure**	**520**(476)
VM(C)OCA (OCH AAL)	**Total Area**	**700**(656)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	990	870	740	620	500

ALTERNATIVE BASE TURN PROCEDURE AFTER HOLDING
From overhead NDB(L) WL **not below 2300** fly outbound on NDB(L) WL QDR 321° for 1 MIN, baseturn right and manoeuvre onto NDB(L) WL QDM 178° to overhead NDB(L) WL. Continue outbound on NDB(L) WL QDR 178° descending **not below 1900.** At I-WL DME 8 baseturn left to intercept extended FAT, continue as for main procedure.

ALTERNATIVE BASE TURN PROCEDURE DIRECT ENTRY
Arrive overhead NDB(L) WL **not below MSA**, only within sector entry between NDB(L) WL QDM 149° and QDM 209°. Fly outbound on NDB(L) WL QDR 178° descending **not below 1900.** At I-WL DME 8 baseturn left to intercept extended FAT, continue as for main procedure.

NOTE Use of this procedure is strictly PPR from the aerodrome operator.

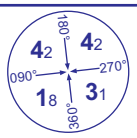
CHANGE (11/25): MAG VAR. MAG TRACKS.

AERO INFO DATE 11 AUG 25

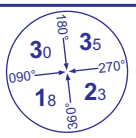
AD 2-EGNL-8-5

INSTRUMENT APPROACH CHART - ICAO

WALNEY NDB(L)/DME TO AERODROME
(ACFT CAT B)



MSA 25NM NDB(L) WL

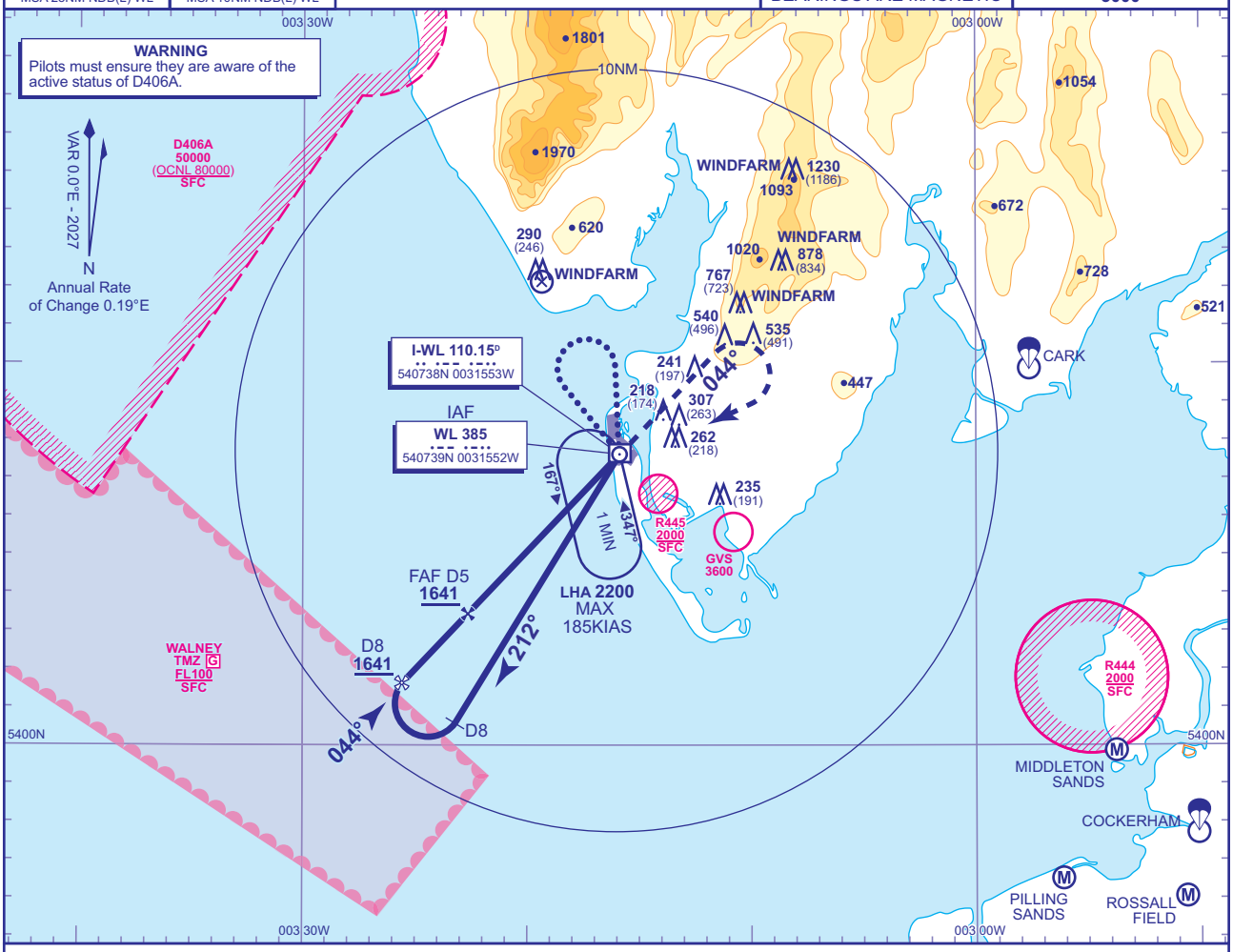


MSA 10NM NDB(L) WL

AFIS 118.080	WALNEY INFORMATION

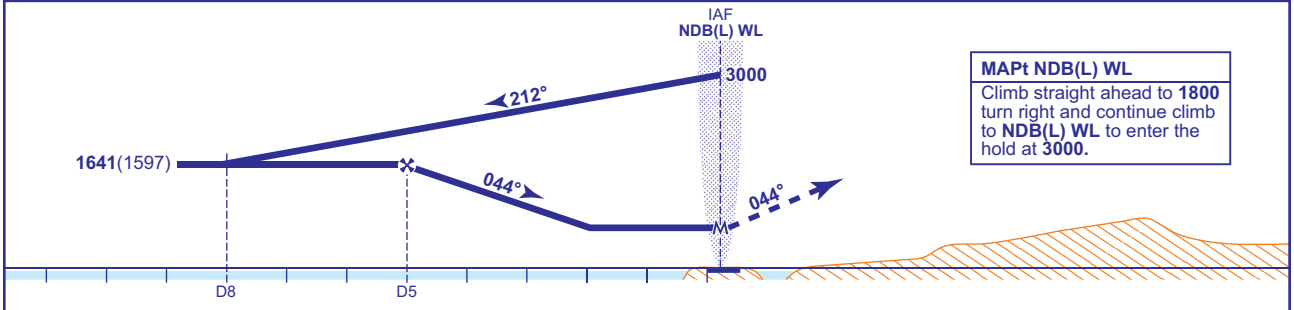
AD ELEVATION	44
THR ELEVATION	44
OBSTACLE ELEVATION	1230 AMSL (1186) (ABOVE THR)
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.16%, 313FT/NM

DME I-WL	5	4	3	2
ALT(HGT)	**1641**(1597)	**1328**(1284)	**1014**(970)	**701**(657)



MAPt NDB(L) WL
Climb straight ahead to **1800** turn right and continue climb to **NDB(L) WL** to enter the hold at **3000.**

Aircraft Category		**B**
OCA (OCH)	**Procedure**	**700**(656)
VM(C)OCA (OCH AAL)	**Total Area**	**700**(656)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	730	630	520	420

BASE TURN PROCEDURE AFTER HOLDING From overhead NDB(L) WL **not below 2300** fly outbound on NDB(L) WL QDR 321° for 1 MIN. Baseturn right and manoeuvre onto NDB(L) WL QDM 178° to overhead NDB(L) WL. Turn right outbound on NDB(L) WL QDR 212°M descending **not below 1641.** At I-WL DME 8 baseturn right to intercept extended FAT, continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME I-WL
From overhead NDB(L) WL **not below 2300** fly outbound on NDB(L) WL QDR 321° for 1 MIN, baseturn right and manoeuvre onto NDB(L) WL QDM 178° to overhead NDB(L) WL. Turn right fly outbound on NDB(L) WL QDR 212° for 3MIN descending **not below 1641**, baseturn right and manoeuvre onto FAT, continue as for main procedure.

NOTE Use of this procedure is strictly PPR from the aerodrome operator.

CHANGE (11/25): MAG VAR. MAG TRACKS.

AERO INFO DATE 07 AUG 25 AD 2-EGNL-8-6

Instrument Approach Procedure Coding Tables

Walney RNP RWY 17 - Instrument Approach Procedure via USADI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R17R	001	IF	USADI	N	-	-	3000	140	541421.41N 0032534.78W	IAF
R17R	002	TF	NL01A	N	034° (033.95°)	RIGHT	3000	140	541650.50N 0032243.23W	-
R17R	003	TF	NL17I	N	076° (076.13°)	RIGHT	3000	140	541713.48N 0032003.88W	IF / 9.5NM
R17R	004	TF	NL17F	N	166° (166.05°)	-	2500	140	541419.08N 0031849.92W	FAF / 6.5NM
R17R	005	TF	RW17	Y	166° (166.07°)	-	-	140	540759.26N 0031609.47W	MAPt
R17R	006	TF	NLM01	N	166° (166.10°)	RIGHT	-	140	540406.64N 0031431.61W	-
R17R	007	TF	NLM02	N	256° (256.09°)	RIGHT	-	140	540308.88N 0032106.76W	-
R17R	008	TF	NLM05	Y	331° (331.01°)	-	3000	140	540631.59N 0032417.92W	HOLD

Walney RNP RWY 17 - Instrument Approach Procedure via BEGPU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R17L	001	IF	BEGPU	N	-	-	4000	140	541756.95N 0031505.97W	IAF
R17L	002	TF	NL17I	N	256° (256.03°)	LEFT	3000	140	541713.48N 0032003.88W	IF/ 9.5NM
R17L	003	TF	NL17F	N	166° (166.05°)	-	2500	140	541419.08N 0031849.92W	FAF / 6.5NM
R17L	004	TF	RW17	Y	166° (166.07°)	-	-	140	540759.26N 0031609.47W	MAPt
R17L	005	TF	NLM01	N	166° (166.10°)	RIGHT	-	140	540406.64N 0031431.61W	-
R17L	006	TF	NLM02	N	256° (256.09°)	RIGHT	-	140	540308.88N 0032106.76W	-
R17L	007	TF	NLM05	Y	331° (331.01°)	-	3000	140	540631.59N 0032417.92W	HOLD

CHANGE (11/25): MAG VAR.

AERO INFO DATE 07 AUG 25

I

Instrument Approach Procedure Coding Tables

Walney RNP RWY 35 - Instrument Approach Procedure via IBREM

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R35L	001	IF	IBREM	N	-	-	2200	140	535858.94N 0031736.61W	IAF
R35L	002	TF	NL35I	N	076° (076.01°)	LEFT	1900	140	535942.28N 0031240.79W	IF / 8NM
R35L	003	TF	NL35F	N	346° (346.15°)	-	1900	140	540242.26N 0031356.20W	FAF / 4.9NM
R35L	004	TF	RW35	Y	346° (346.13°)	-	-	140	540727.50N 0031556.09W	MAPt
R35L	005	TF	NLM03	N	346° (346.11°)	LEFT	-	140	541120.08N 0031734.20W	-
R35L	006	TF	NLM04	N	256° (256.09°)	LEFT	-	140	541035.92N 0032237.53W	-
R35L	007	TF	NLM05	Y	194° (193.58°)	-	3000	140	540631.59N 0032417.92W	HOLD

Walney RNP RWY 35 - Instrument Approach Procedure via UVNUB

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R35C	001	IF	UVNUB	N	-	-	1900	140	535647.80N 0031127.86W	IAF
R35C	002	TF	NL35I	N	346° (346.17°)	-	1900	140	535942.28N 0031240.79W	IF / 8NM
R35C	003	TF	NL35F	N	346° (346.15°)	-	1900	140	540242.26N 0031356.20W	FAF / 4.9NM
R35C	004	TF	RW35	Y	346° (346.13°)	-	-	140	540727.50N 0031556.09W	MAPt
R35C	005	TF	NLM03	N	346° (346.11°)	LEFT	-	140	541120.08N 0031734.20W	-
R35C	006	TF	NLM04	N	256° (256.09°)	LEFT	-	140	541035.92N 0032237.53W	-
R35C	007	TF	NLM05	Y	194° (193.58°)	-	3000	140	540631.59N 0032417.92W	HOLD

Walney RNP RWY 35 - Instrument Approach Procedure via VAGVI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R35R	001	IF	VAGVI	N	-	-	2300	140	540025.11N 0030744.19W	IAF
R35R	002	TF	NL35I	N	256° (256.26°)	RIGHT	1900	140	535942.28N 0031240.79W	IF / 8NM
R35R	003	TF	NL35F	N	346° (346.15°)	-	1900	140	540242.26N 0031356.20W	FAF / 4.9NM
R35R	004	TF	RW35	Y	346° (346.13°)	-	-	140	540727.50N 0031556.09W	MAPt
R35R	005	TF	NLM03	N	346° (346.11°)	LEFT	-	140	541120.08N 0031734.20W	-
R35R	006	TF	NLM04	N	256° (256.09°)	LEFT	-	140	541035.92N 0032237.53W	-
R35R	007	TF	NLM05	Y	194° (193.58°)	-	3000	140	540631.59N 0032417.92W	HOLD

CHANGE (11/25): MAG VAR.

EGNO — WARTON

EGNO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNO — WARTON

EGNO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 534442N Long: 0025300W Mid point of Runway 07/25
2	Direction and distance from city	6 NM W of Preston.
3	Elevation / Reference temperature / Mean Low Temperature	54 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	171 FT
5	Magnetic Variation / Annual Change	0.19°E (2027) / 0.19°E
6	AD Administration Address Telephone	BAE SYSTEMS. BAe Systems, Warton Aerodrome, Warton, Preston, PR4 1AX. 01772-633333 (Switchboard) 01772-852374 (ATC and PPR for training flights) 01772-634330 (Civil Ops and PPR for visiting aircraft) 01772-856060 (ATIS)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	All calls to ATC will be recorded.

EGNO AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Thu 0730-1159 (0630-1059), 1400-1900 (1300-1800); Fri 0730-1159 (0630-1059), 1400-1700 (1300-1600). Aircraft may operate outside of these times with the prior approval of the Aerodrome Operator.
2	Customs and immigration	Mon-Fri 0600-2000 (0500-1900) Subject to 48 hours prior notice.
3	Health and sanitation	As AD hours.
4	AIS Briefing Office	As AD hours.
5	ATS Reporting Office (ARO)	As AD hours.
6	MET Briefing Office	As AD hours.
7	ATS	See AD 2.18.
8	Fuelling	Sun-Fri 0615-1930 (0515-1830).
9	Handling	As AD hours.
10	Security	As AD hours.
11	De-icing	Mon-Fri 0630-1850 (0530-1750). Out of hours de-icing carried out when required to meet business requirements.
12	Remarks	This aerodrome is PPR. The aerodrome may operate outside of the published hours to support business requirements.

EGNO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	18 Tonne Mobile Crane, 10 Tonne Forklift, Atlas ‘K Loader’, 14 Cargo Dolly’s (including 1 Double Dolly), Avi-Ramp Regional Mobile Boarding Bridge, 7 Tonne FMC Commander (Wide) Cargo Loader, various Aircraft steps & Licenced Store. Tow bars available for the following aircraft: Boeing 737 (800 & Classic), 747, 757, Embraer, Typhoon, Tornado, Hawk, short aircraft towbar & hand operated towbar.
2	Fuel and oil types	AVTUR JET A-1 WITH FSII (F34 AVTUR)
3	Fuelling facilities/capacity	3 Bowsers (pressure and overwing). Approximately 500,000 lt.
4	De-icing facilities	2 aircraft de-icers.
5	Hangar space for visiting aircraft	Limited.
6	Repair facilities for visiting aircraft	Limited.
7	Remarks	All civil aircraft handling is carried out by Civil Ops. PPR and ground handling are mandatory for all visiting aircraft. PPR requests must be made to cat.operations@baesystems.com.

EGNO AD 2.5 PASSENGER FACILITIES

1	Hotels	Lytham 3.5 miles.
2	Restaurants	Lytham 3.5 miles.
3	Transportation	Regular bus service, taxis on request. Nearest rail station Lytham 3.5 miles.
4	Medical facilities	Limited first aid on site. Nearest hospital Preston 6 miles.
5	Bank and Post Office	Warton. Lytham 3.5 miles.
6	Tourist Office	St Annes 5 miles.
7	Remarks	

EGNO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category 6 for operations. RFF Category 9 can be made available (with adequate notice) for special operations. RFF Category will be maintained to suit operational requirements for weekend operations.
2	Rescue equipment	3 Rosenbauer Panther 6x6, Major Foam Vehicle, Incident Command Vehicle, Argo Titan, Mud Rescue Support Vehicle, Medical Response Vehicle & Emergency Equipment Trailer.
3	Capability for removal of disabled aircraft	By arrangement with nominated recovery company. Light aircraft removal possible if required.
4	Remarks	

EGNO AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical, chemical de-icing
2	Clearance priorities	Runway, taxiways, apron.
3	Remarks	For latest information on snow clearance programme and runway state Tel: ATC 01772-852374

EGNO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	CARGO APRON Surface: Asphalt PCN 42/F/C/W/T MILITARY TRAINING APRON Surface: Concrete and asphalt PCN 42/F/C/W/T NORTHERN APRON Surface: Concrete and asphalt PCN 42/F/C/W/T SOUTHERN APRON Surface: Concrete and asphalt PCN 48/R/C/W/T
2	Taxiway width, surface and strength	Taxiway ALPHA: 18 M Surface: Asphalt PCN 37/R/C/W/T Taxiway BRAVO: 23 M Surface: Asphalt PCN 42/F/C/W/T Taxiway CHARLIE: 15 M Surface: Asphalt PCN 28/F/C/X/T

		Taxiway DELTA: 23 M Surface: Asphalt PCN 42/F/C/W/T Taxiway ECHO: 15 M Surface: Asphalt PCN 28/F/C/W/T
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGNO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Northern Apron: Apron is accessed via Taxiways Alpha or Bravo. Aircraft are to follow marshalling guidance, no self-parking. Stands 10 & 11 are nose-in/push-back configuration. Stand 12 has been decommissioned & must not be used. Blue reflective marker posts in use to demark Stand 12. Military Training Apron: Apron is accessed via Taxiway Bravo or Northern Apron. Pilots to self park, no marshalling available. Reserved for military aircraft only. Southern Apron: Apron is accessed via Taxiways Charlie and Echo. Aircraft may be asked to self-park when marshalling guidance not available. Cargo Apron: Apron is accessed via Taxiway Delta. Aircraft may be asked to self-park when marshalling guidance not available. Turning circle at the southern end of the apron is available for large aircraft use.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 07/25: Runway designation markings. Runway threshold markings. Runway 07 threshold permanently displaced. Runway centre-line marking. Runway aiming point and touchdown zone markings for Runway 25 only. Runway turning circle markings. The runway side stripe is only 50 mm wide. Runway light(s): High intensity runway edge lights at 60 M spacing. 600 M yellow high intensity caution zone. Red high intensity runway end lights. Green high intensity threshold lights. Illuminated runway distance to go markers every 1000 FT. Taxiway marking aid(s): Centre-line markings. Hold point markings. Taxiway D edge lighting is not coincident with taxiway edge, see AD 2.20 paragraph 4. Narrow paved surface on the south side of Runway 25/07 (opposite Taxiway Alpha) has a yellow centre-line marking & has reflective studs. This route is not to be used as a taxi route. Markings are for towed aircraft only Vehicular access only. Non-standard runway markings to show 'Armament Safe Headings' in the form of yellow arrows are located adjacent to Runway 07 threshold and the end of Taxiway Delta adjacent to D1 hold. Taxiway light(s): Taxiways A, B, D & E blue edge lighting. Taxiway D edge lights are 8 M outside marked edge of taxiway. Taxiway C blue reflective edge markers. Taxiway A alternate green / yellow centreline solar studs (lead off only). Taxiway B green centreline solar studs between aprons and B1 hold. Taxiway C alternate green / yellow centreline solar studs (lead off only) and green centreline solar studs between aprons and C2 hold.
3	Stop bars and runway guard lights (if any)	At holding points A1, B1, C2 and D2. Red high intensity uni-directional stop bar lights. Yellow flashing runway guard lights.
4	Other runway protection measures	
5	Remarks	WDIs (LGTD): 534430.97N 0025315.76W; 534436.76N 0025348.57W; 534447.76N 0025218.31W.

EGNO AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNO10773) 25/APPROACH 07/ TAKE-OFF	TREE	534506.38N 0025133.14W	100 FT	60 FT	No	
(EGNO10778) 25/APPROACH 07/ TAKE-OFF	TREE	534502.60N 0025136.69W	79 FT	30 FT	No	
(EGNO10782) 25/APPROACH 07/ TAKE-OFF	TREE	534502.40N 0025136.23W	83 FT	35 FT	No	
(EGNO10767) 25/APPROACH 07/ TAKE-OFF	TREE	534501.79N 0025140.09W	73 FT	19 FT	No	
(EGNO10785) 25/APPROACH 07/ TAKE-OFF	TREE	534501.72N 0025136.35W	78 FT	29 FT	No	
(EGNO10783) 25/APPROACH 07/ TAKE-OFF	TREE	534501.26N 0025137.60W	78 FT	27 FT	No	
(EGNO5102) 25/APPROACH 07/ TAKE-OFF	ROAD 4 8M	534501.10N 0025138.83W	68 FT	16 FT	No	
(EGNO6980) 25/APPROACH 07/ TAKE-OFF	FENCE	534500.51N 0025144.64W	68 FT	10 FT	No	
(EGNO6984) 25/APPROACH 07/ TAKE-OFF	FENCE	534459.41N 0025150.06W	71 FT	10 FT	No	
(EGNO6988) 25/APPROACH 07/ TAKE-OFF	FENCE	534457.97N 0025157.22W	70 FT	11 FT	No	
(EGNO10811) 25/APPROACH 07/ TAKE-OFF	TREE	534456.41N 0025136.87W	74 FT	38 FT	No	
(EGNO10817) 25/APPROACH 07/ TAKE-OFF	TREE	534455.34N 0025137.98W	75 FT	24 FT	No	
(EGNO10819) 25/APPROACH 07/ TAKE-OFF	TREE	534455.01N 0025137.69W	73 FT	30 FT	No	
(EGNO8919) 25/APPROACH 07/ TAKE-OFF	FENCE	534452.98N 0025145.14W	71 FT	9 FT	No	
(EGNO8918) 25/APPROACH 07/ TAKE-OFF	FENCE	534452.42N 0025149.19W	70 FT	11 FT	No	
(EGNO10852) 25/APPROACH 07/ TAKE-OFF	POLE	534451.85N 0025154.06W	72 FT	15 FT	No	
(EGNO5051) 07/APPROACH 25/ TAKE-OFF	ROAD 4 8M	534451.54N 0025154.22W	74 FT	17 FT	No	
(EGNO11067) 07/APPROACH 25/ TAKE-OFF	TREE	534433.01N 0025409.14W	57 FT	29 FT	No	
(EGNO3089) 07/APPROACH 25/ TAKE-OFF	LAMP POST	534432.92N 0025413.74W	44 FT	17 FT	No	
(EGNO11069) 07/APPROACH 25/ TAKE-OFF	TREE	534432.91N 0025411.13W	61 FT	33 FT	No	
(EGNO3088) 07/APPROACH 25/ TAKE-OFF	FENCE	534430.38N 0025411.22W	40 FT	10 FT	No	
(EGNO11092) 07/APPROACH 25/ TAKE-OFF	TREE	534429.65N 0025421.69W	59 FT	32 FT	No	
(EGNO5817) 07/APPROACH 25/ TAKE-OFF	TP	534427.79N 0025421.14W	52 FT	23 FT	No	
(EGNO5448) 07/APPROACH 25/ TAKE-OFF	CRASHGATE	534425.85N 0025406.71W	42 FT	10 FT	No	
(EGNO8913) 07/APPROACH 25/ TAKE-OFF	FENCE	534425.21N 0025412.22W	43 FT	10 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGNO3316)	PYLON	534745.36N 0025056.68W	246 FT	164 FT	No	
(EGNO3318)	PYLON	534723.96N 0025040.13W	257 FT	162 FT	No	
(EGNO10010)	HV PYLON	534634.98N 0024910.65W	242 FT	174 FT	No	
(EGNO10009)	HV PYLON	534623.90N 0024855.48W	250 FT	187 FT	No	
(EGNO3210)	PYLON	534604.94N 0025358.93W	217 FT	136 FT	No	
(EGNO3214)	PYLON	534553.21N 0025211.05W	205 FT	127 FT	No	
(EGNO3141)	PYLON	534522.92N 0024602.24W	296 FT	272 FT	No	
(EGNO3140)	PYLON	534515.60N 0024555.21W	304 FT	272 FT	No	
(EGNO3343)	PYLON	534515.06N 0024559.47W	277 FT	245 FT	No	
(EGNO10024)	HV PYLON	534508.70N 0025041.47W	101 FT	85 FT	No	
(EGNO5697)	BUILDING	534456.52N 0025211.37W	83 FT	30 FT	No	
(EGNO6998)	FENCE	534454.85N 0025211.49W	64 FT	10 FT	No	
(EGNO10329)	GP MAST	534448.79N 0025214.06W	95 FT	53 FT	Yes Red	
(EGNO10502)	LIGHTNING CONDUCTOR	534448.43N 0025326.86W	124 FT	35 FT	Yes Red	
(EGNO10253)	MAST	534444.72N 0025334.41W	90 FT	57 FT	Yes Red	
(EGNO11236)	LIGHTNING CONDUCTOR	534444.33N 0025350.75W	129 FT	99 FT	Yes Red	
(EGNO10254)	ATC ANEMOMETER	534444.30N 0025320.12W	86 FT	46 FT	No	
(EGNO10252)	MAST	534443.84N 0025333.25W	75 FT	41 FT	Yes Red	
(EGNO3047)	MAST	534433.16N 0025151.74W	126 FT	77 FT	No	
(EGNO5856)	TACAN	534430.29N 0025306.56W	108 FT	74 FT	Yes Red	
(EGNO11023)	BUILDING CHIMNEY	534424.46N 0025250.48W	125 FT	90 FT	Yes Red	
(EGNO3447)	PYLON	534354.25N 0024811.33W	177 FT		No	

EGNO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE EXETER 9 hours
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing in BAE Systems Civil Ops.
6	Flight documentation Language(s) used	Charts available. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Self-briefing in BAE Systems Civil Ops.
8	Supplementary equipment available for providing information	ATIS 121.730 MHz, Telephone 01772-856060.

9	ATS units provided with information	WARTON
10	Additional information (limitation of service, etc.)	Warton provides Met observations half hourly during aerodrome operating hours.

EGNO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
07	071.15°	2420 x 44 M	RWY surface: Asphalt, Grooved PCN 47/F/C/W/T PCR 550/F/C/W/U	534429.77N 0025401.22W 171.3 FT	THR 30.1 FT	RWY 07 0.003% Up RWY 25 0.003% Down
25	251.18°	2420 x 44 M	RWY surface: Asphalt, Grooved PCN 47/F/C/W/T PCR 550/F/C/W/U	534454.39N 0025159.51W 171.2 FT	THR 54.5 FT	RWY 07 0.003% Up RWY 25 0.003% Down

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	278 x 150 M	2476 x 280 M	240 x 90 M -			RWY 07 Threshold displaced by 63 M. Runway instrument strip is infringed in 3 areas, see AD 2.20 para 3. Runway 07 longitudinal slopes are a maximum of 1.03% in the final 450 M. Runway 07 transverse slopes vary between 0.12% and 1.65%. Half width starter extension is for use by trials aircraft only.
	149 x 150 M	2476 x 280 M	90 x 90 M -			RWY 25 Runway instrument strip is infringed in 3 areas, see AD 2.20 para 3. Runway 25 longitudinal slopes are a maximum of 1.03% in the first 450 M. Runway 25 transverse slopes vary between 0.12% and 1.65%. Half width starter extension is for use by trials aircraft only. A soft ground arrestor bed is located 71 M beyond the end of the paved surface. OFZ: Yes.

EGNO AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07	2419 M	2697 M	2419 M	2356 M	
25	2341 M	2490 M	2341 M	2341 M	

EGNO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
07	CL2B. Irregular spacing. See AD 2.20 para 3. 1030 M White Light intensity high	Green Light intensity high Wingbars only.	PAPI Both/3° 32 FT 230 M			Elevated HI full length at 60 M spacing. 600 M Yellow caution zone.	23 M central gap Red Light intensity high		EDGE: Runway edge lighting inset at RHAG, see AD 2.20 para 3. Blue edge lighting is not provided for the runway end turning circle.
25	CL5B. Irregular spacing. Supplemented by LI Omni-directional red T for circling guidance. See AD 2.20 para 3. 879 M White Light intensity high	Green Light intensity high 23 M central gap and HI Wingbars.	PAPI Both/3° 34 FT 364 M Spacing between PAPI lights reduced due to topography.			Elevated HI full length at 60 M spacing. 600 M Yellow caution zone.	23 M central gap Red Light intensity high		EDGE: Runway edge lighting inset at RHAG, see AD 2.20 para 3. Blue edge lighting is not provided for the runway end turning circle.

EGNO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 534421.90N 0025250.18W Flashing Green 'WQ' H24
2	LDI location and lighting Anemometer location and lighting	Anemometer: Runway 07 (LGTD): 534436.69N 0025345.94W; Runway 25: 534448.14N 0025215.47W.
3	TWY edge and centre line lighting	CL: Taxiway A alternate green/yellow centreline solar studs (lead off only). Taxiway B green centreline solar studs between aprons and B1 hold. Taxiway C alternate green/yellow centreline solar studs (lead off only) and green centreline solar studs between aprons and C2 hold. EDGE: Taxiways A, B, D & E blue edge lighting. Taxiway D edge lights are 8 M outside marked edge of taxiway. Taxiway C blue reflective edge markers.
4	Secondary power supply/switch-over time	Yes/1 second.
5	Remarks	Runway guard lights, apron floodlighting, obstacle lighting.

EGNO AD 2.16 HELICOPTER LANDING AREA

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EGNO AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WARTON ATZ A circle, 2.5 NM radius, centred at 534442N 0025300W (ARP)	Upper limit: 2000 FT AGL Lower limit: SFC	G	WARTON RADAR English	3000 FT		The ATZ is notified, for the purposes of Rule 11, as being active H24. For entry into the ATZ see AD 2.22 Flight Procedures. A non-standard MATZ is established as detailed at ENR 2.2 para 2.4 and displayed pictorially at AD 2-EGNO-4-1. Warning: The northern sector of the ATZ is not wholly contained within the MATZ.

EGNO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	WARTON TOWER	130.805 DOC 15 NM/ 10,000 FT.			Mon-Thu 0730-1159 (0630-1059), 1400-1900 (1300-1800); Fri 0730-1159 (0630-1059), 1400-1700 (1300-1600).	Aircraft may operate outside of these times with the prior approval of the Aerodrome Operator.
RADAR	WARTON RADAR	129.530 DOC 40 NM/ 25,000 FT. Provides SRA RTR 2 NM.			Mon-Thu 0730-1900 (0630-1800); Fri 0730-1700 (0630-1600).	VDF 534422.32N 0025320.79W On AD.
	WARTON TALKDOWN	129.730 DOC 40 NM/ 25,000 FT. Provides SRA RTR 0.5 NM.			Mon-Thu 0730-1900 (0630-1800); Fri 0730-1700 (0630-1600).	
ATIS	WARTON AIRFIELD INFORMATION	121.730 DOC 2 NM/GND.			Mon-Thu 0730-1900 (0630-1800); Fri 0730-1700 (0630-1600).	ATIS also available via telephone 01772-856060.
OTHER	WARTON FIRE	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGNO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC I 0.19°E (2027)	IWQ	109.900 MHz	Mon-Thu 0730-1900 (0630-1800); Fri 0730-1700 (0630-1600).	534426.10N 0025419.37W		(RWY 25)

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/GP	IWQ	333.800 MHz	Mon-Thu 0730-1900 (0630-1800); Fri 0730-1700 (0630-1600).	534448.79N 0025214.01W		(RWY 25) 3° ILS Ref Datum Hgt 46 FT.
NDB 0.21°E (2027)	WTN	337.000 kHz	Mon-Thu 0730-1900 (0630-1800); Fri 0730-1700 (0630-1600).	534505.93N 0025108.36W		Range 15 NM. Normally radiates H24.
ILS/DME	IWQ	36X 109.900 MHz	Mon-Thu 0730-1900 (0630-1800); Fri 0730-1700 (0630-1600).	534439.65N 0025254.00W	55 FT	(RWY 25) On AD. DME freq paired with ILS I-WQ. Zero range is indicated at THR of Runway 25. Range 25 NM. Not to be used as an en-route navigation aid.

EGNO AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of the aerodrome is strictly PPR from Civil Ops for all visitors.
b) Use of the aerodrome is strictly PPR from ATC for all instrument and circuit training.
c) Civil private licence circuit training is not permitted when fast jet traffic is in the visual circuit.
d) High visibility clothing must be worn on the apron at all times.
e) During RVR/Low visibility procedures movements restricted to one aircraft at a time.
f) ATC permission required for all aircraft engine starts.
g) Aerodrome not available to aircraft unable to communicate by radio.

2 GROUND MOVEMENT

Due to surrounding topography, the use of Taxiway Echo is restricted to aircraft with a wingspan of 16.3 M or less.

3 WARNINGS

a) Large concentrations of birds are a year round hazard to aircraft due to the aerodrome location on a river estuary.
b) Geese activity is present in the vicinity of the aerodrome from September to April. Skeins range from 10 to 500 birds but can be in significantly larger numbers. Most activity takes place in daylight but the birds may be present at any time of day or night up to 2000 FT.
c) Rotary Hydraulic Arrestor Gear (RHAG) are used on Runway 07/25 to stop military aircraft overrunning the runway in the event of an emergency. The cables are recessed into the runway and are only raised for military aircraft operations.
d) Final approach tracks to RWY 25 Warton and RWY 28 Blackpool converge at approximately 2.5 NM from Warton touchdown zone. Pilots should exercise caution when visually identifying Warton.
e) Restricted Area EGR312 and Blackpool ATZ are in close proximity to the aerodrome.
f) An ATC Mobile Caravan is positioned close to the active threshold of Runway 07/25 when test flying is taking place.
g) Runway 07/25 is treated as an instrument runway for safeguarding purposes. However, owing to real estate limitations, the runway is restricted to visual status. The following runway strip infringements exist:

- Abeam the threshold of Runway 07 on the northerly side, the runway strip narrows to 106 M due to a fence and a line of trees.
- Over the first 880 M of Runway 25 on the northerly side, the runway strip narrows to 91 M due to fences, trees and third party property.
- Over the first 718 M of Runway 25 on the southerly side, the runway strip narrows to 92 M due to fences, trees, a road and third party property.

h) Hazard from EGR Detuners which emit high velocity vertical jet efflux. Overflight of these facilities below 500 FT is prohibited for helicopters and light aircraft at all times.
i) The simple approach lighting system for Runway 07 is non-standard in the following areas due to the approach lighting extending through private land and into the marsh area in the Ribble Estuary:

- There is an additional crossbar sited in the approach. The spacing, widths and number of lights are irregular.
- 1st crossbar at 568 M, 18 M width and 2 lights.

- 2nd crossbar at 839 M, 36 M width and 4 lights.
- Reduced centre-line lighting with 90 M spacing instead of 60 M.
- High intensity white lighting is provided to a distance of 1030 M from the threshold.

j) The precision approach category I lighting system for Runway 25 is non-standard in the following areas due to the approach lighting extending through private land:

- Crossbars have irregular spacing.
  - 1st at 135 M
  - 2nd at 135 M
  - 3rd at 135 M
  - 4th at 175 M
  - 5th at 150 M
- There is single centre-line light source out to the third crossbar, then two light sources for the remainder of the approach lighting.
- There are a reduced number of extended centre-line lights, with an average spacing of 45 M.
- The lighting consists of a red T bar commencing at the 3rd crossbar to provide circling guidance.

k) The edge lighting on Taxiway Delta is located at the extremity of the paved surface and not at the edge of the taxiway. The taxiway is 23 M wide and the paved surface is 46 M wide.
l) Floodlighting on all aprons is limited.
m) At weekends when the aerodrome is closed, a 4 M wide illuminated cross is located at the threshold to indicate the runway is closed. Siting on either 07/25 threshold is dependent on wind conditions. This is a mitigation to help prevent pilots misidentifying Warton for Blackpool.

4 HELICOPTER OPERATIONS

Helicopter Landing Areas are located adjacent to Stands 1, 10, 11, 32, 33 and 34.

5 USE OF RUNWAYS

a) Access to the runway thresholds will require a backtrack from all taxiways.
b) Limited turning circles are available at either end of Runway 07/25.
c) Unless an AOC holder has state approved less restrictive minima, take-offs in RVR less than 400 M will not be permitted as Runway 07/25 is not equipped with centre-line lighting.
d) All circuits are to the south of Runway 07/25.

6 TRAINING

a) Use of the aerodrome is strictly PPR from ATC for all instrument and circuit training.
b) Priority will be given to test and experimental flying.
c) Hazard from EGR Detuners which emit high velocity vertical jet efflux. Overflight of these facilities below 500 FT is prohibited for helicopters and light aircraft at all times.
d) All circuits are to the south of Runway 07/25.

EGNO AD 2.21 NOISE ABATEMENT PROCEDURES

a) All aircraft are to be operated in such a manner as to cause the least possible disturbance to surrounding residential areas.
b) Westerly departures should avoid overflying the town of Lytham.
c) Easterly departures should avoid remaining low or initiating full power climb overhead the town of Preston.

EGNO AD 2.22 FLIGHT PROCEDURES

1 GENERAL

a) Priority will be given to test and experimental flying.
b) Aircraft transiting the Warton MATZ flying at or below 3500 FT will be instructed to set the Warton QNH.
c) Pilots wishing permission to enter Warton ATZ should in the first instance attempt to obtain that permission from Warton ATC on 129.530 MHz. If no response is obtained from Warton ATC, pilots must obtain permission from Blackpool ATC on 119.955 MHz.
d) When flying within the Warton ATZ upon the basis of a permission obtained from Blackpool ATC, a continuous watch must be maintained on the Blackpool ATC frequency of 119.955 MHz. Pilots must communicate their position and altitude to Blackpool ATC. Blackpool ATC is itself not manned H24. Accordingly, it may be that pilots will be unable to obtain positive flight information from either Warton ATC or Blackpool ATC. In that event they are to assume the ATZ to be active and remain clear.

2 CIRCUITS

a) All circuits are to the south of Runway 07/25 at 1000 FT.

b) Low level circuits are not to be below 500 FT.
c) Large aircraft circuits will be at 1500 FT.

3 INSTRUMENT APPROACH PROCEDURES

Non-published Instrument Approach Procedures (IAP) are established outside controlled airspace. See ENR 1.5.

4 IFR ROUTINGS

- Inbound from N864 from the south: Via WAL ESTRY
- Inbound from DTY CTA: Via POL
- Inbound from Scottish TMA: Via DCS
- Outbound to N864 to the south: Via ESTRY WAL
- Outbound to DTY CTA: Via ESTRY WAL
- Outbound to the east: Via POL or RIBEL
- Outbound to Scottish TMA: Via RIBEL or SETEL

Local ATC instructions will be issued to avoid the Blackpool ATZ and overflight of EGR312.

5 VFR ROUTINGS

Local ATC instructions will be issued to avoid the Blackpool ATZ and overflight of EGR312.

6 FREQUENCY MONITORING CODE (FMC)

a) Pilots operating in the vicinity of Warton, but intending to remain outside controlled airspace, within the area defined by straight lines joining successively the following points and maintaining a listening watch only on Warton Radar frequency, 129.530 MHz, are encouraged to select SSR code 3660.

535800N 0022410W - 535240N 0021607W -
534459N 0020433W - 533223N 0025907W -
533213N 0031406W - 533021N 0031621W -
thence clockwise by the arc of a circle radius 20 NM centred on 534442N 0025300W to
540206N 0023628W - 535800N 0022410W.

b) Selection of 3660 does not imply the receipt of an ATC service. Aircraft displaying the code are not expected to contact ATC under normal circumstances, remain responsible for their own navigation, separation, terrain clearance and are expected to remain clear of the controlled airspace at all times.
c) Whilst squawking 3660, pilots should be aware that Warton Radar may make blind transmissions in order to ascertain a particular aircraft's intentions/route.
d) When a pilot ceases to maintain a listening watch, code 3660 shall be deselected.

7 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGNO AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNO AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNO-2-1
AERODROME TRAFFIC ZONE AND MILITARY AERODROME TRAFFIC ZONE
AD 2.EGNO-4-1
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO
AD 2.EGNO-5-1

EGNO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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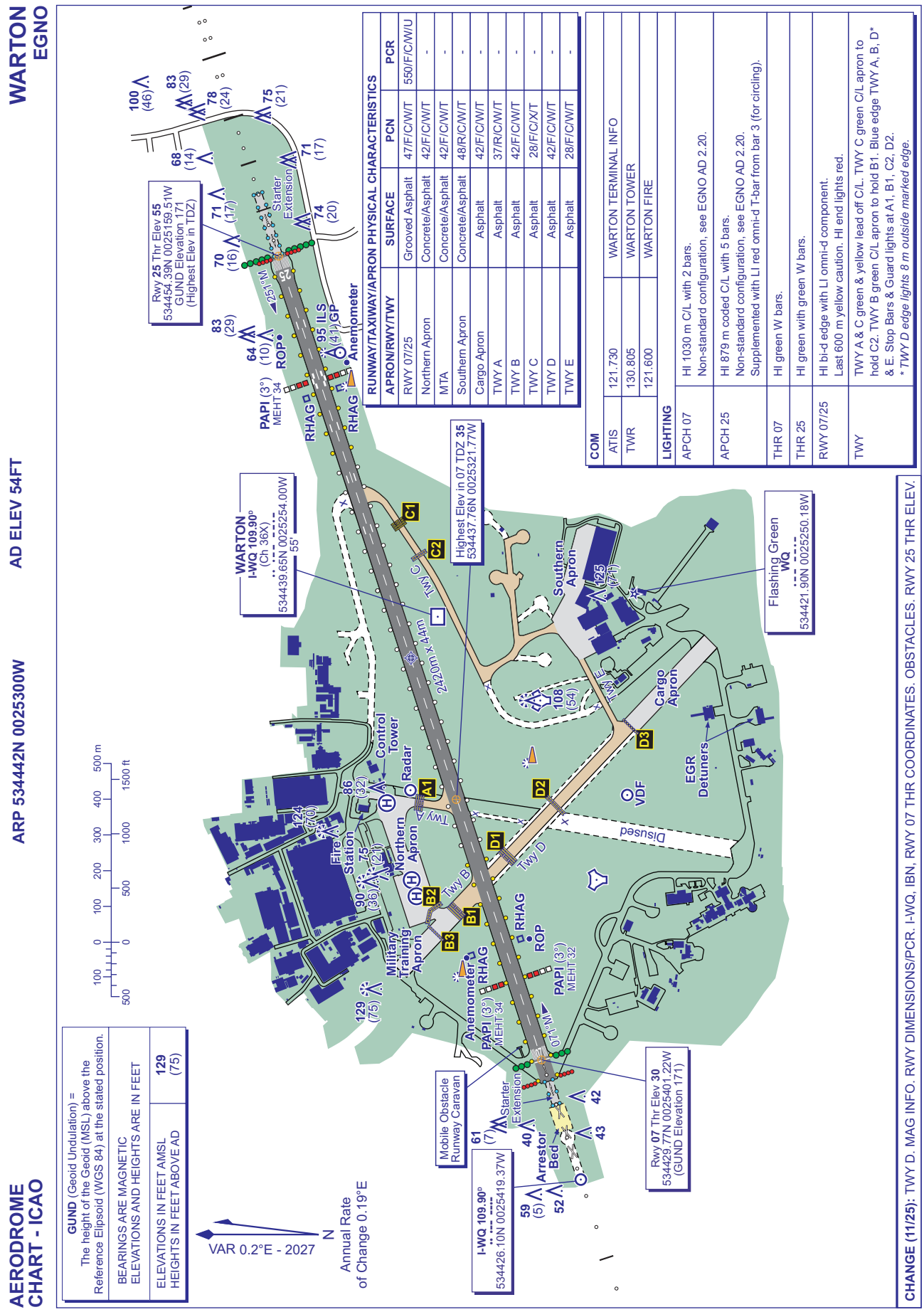
WARTON
EGNO
AERODROME
CHART - ICAO
ARP 534442N 0025300W
AD ELEV 54FT
GUND (Geoid Undulation) =
The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL 129 (75)
HEIGHTS IN FEET ABOVE AD
VAR 0.2°E - 2027
Annual Rate of Change 0.19°E
Rwy 25 Thr Elev 55
534454.39N 0025159.51W
GUND Elevation 171
(Highest Elev in TDZ)
Rwy 07 Thr Elev 30
534429.77N 0025401.22W
(GUND Elevation 171)
WARTON
I-WQ 109.90°
(Ch 36X)
534439.65N 0025254.00W
55'
I-WQ 109.90°
534426.10N 0025419.37W
Flashing Green
WQ
534421.90N 0025250.18W
Highest Elev in 07 TDZ 35
534437.76N 0025321.77W
PAPI (3°)
MEHT 34
RHAG
ROP
ILS
GP
Anemometer
Starter Extension
Arrestor Bed
Mobile Obstacle Runway Caravan
Control Tower
Radar
Fire Station
Military Training Apron
Northern Apron
Southern Apron
Cargo Apron
EGR Detuners
VDF
Twy A
Twy B
Twy C
Twy D
Twy E
Disused
2420m x 44m
C1
C2
A1
B1
B2
B3
D1
D2
D3
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON/RWY/TWY | SURFACE | PCN | PCR
RWY 07/25 | Grooved Asphalt | 47/F/C/W/T | 550/F/C/W/U
Northern Apron | Concrete/Asphalt | 42/F/C/W/T | -
MTA | Concrete/Asphalt | 42/F/C/W/T | -
Southern Apron | Concrete/Asphalt | 48/R/C/W/T | -
Cargo Apron | Asphalt | 42/F/C/W/T | -
TWY A | Asphalt | 37/R/C/W/T | -
TWY B | Asphalt | 42/F/C/W/T | -
TWY C | Asphalt | 28/F/C/XT | -
TWY D | Asphalt | 42/F/C/W/T | -
TWY E | Asphalt | 28/F/C/W/T | -
COM
ATIS 121.730 WARTON TERMINAL INFO
TWR 130.805 WARTON TOWER
121.600 WARTON FIRE
LIGHTING
APCH 07: HI 1030 m C/L with 2 bars. Non-standard configuration, see EGNO AD 2.20.
APCH 25: HI 879 m coded C/L with 5 bars. Non-standard configuration, see EGNO AD 2.20. Supplemented with LI red omni-d T-bar from bar 3 (for circling).
THR 07: HI green W bars.
THR 25: HI green with green W bars.
RWY 07/25: HI bi-d edge with LI omni-d component. Last 600 m yellow caution. HI end lights red.
TWY: TWY A & C green & yellow lead off C/L. TWY C green C/L apron to hold C2. TWY B green C/L apron to hold B1. Blue edge TWY A, B, D* & E. Stop Bars & Guard lights at A1, B1, C2, D2.
* TWY D edge lights 8 m outside marked edge.
CHANGE (11/25): TWY D. MAG INFO. RWY DIMENSIONS/PCR. I-WQ, IBN, RWY 07 THR COORDINATES. OBSTACLES. RWY 25 THR ELEV.

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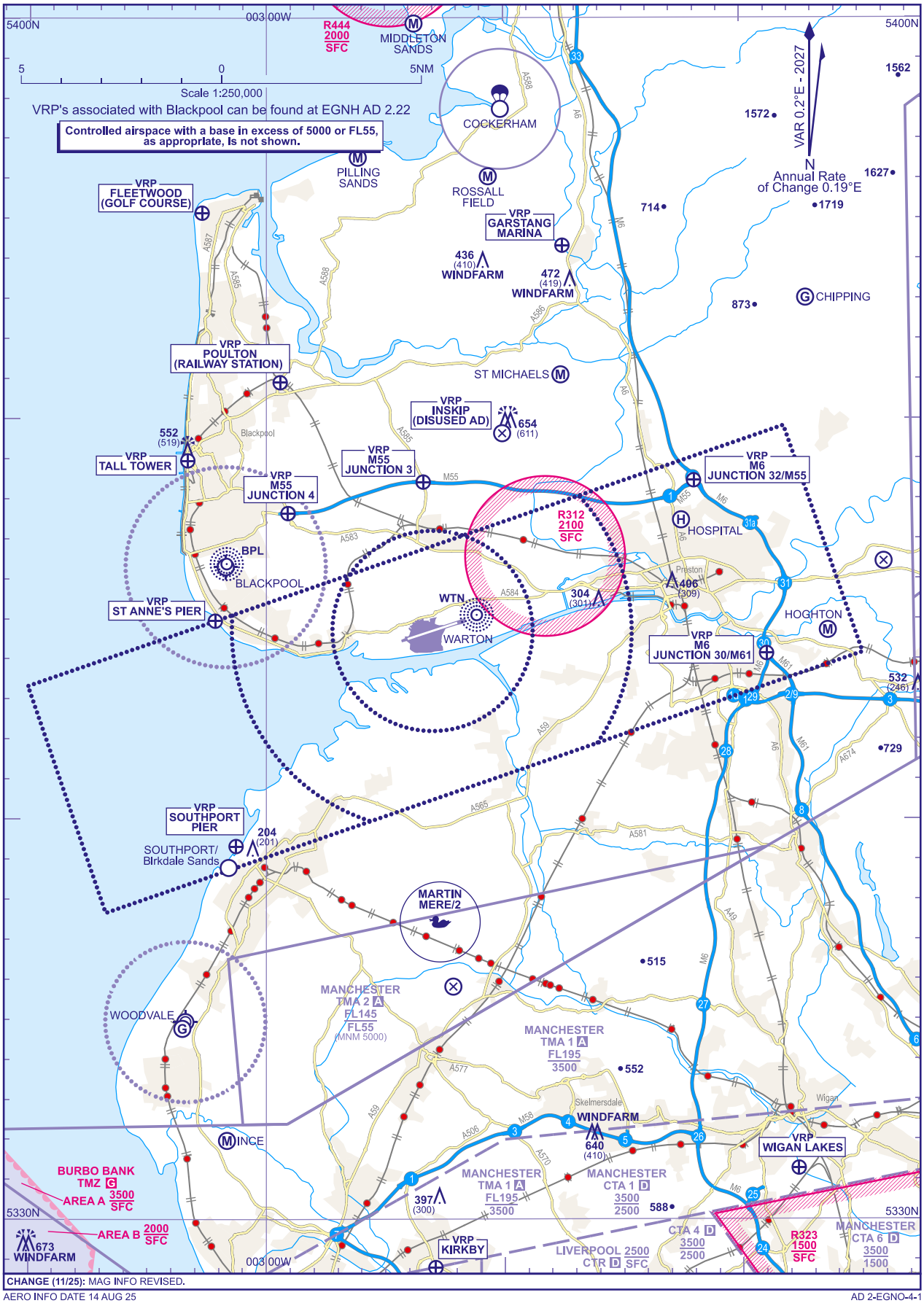
AERODROME TRAFFIC ZONE AND MILITARY AERODROME TRAFFIC ZONE

WARTON



CHANGE (11/25): MAG INFO REVISED.

AERO INFO DATE 14 AUG 25

AD 2-EGNO-4-1

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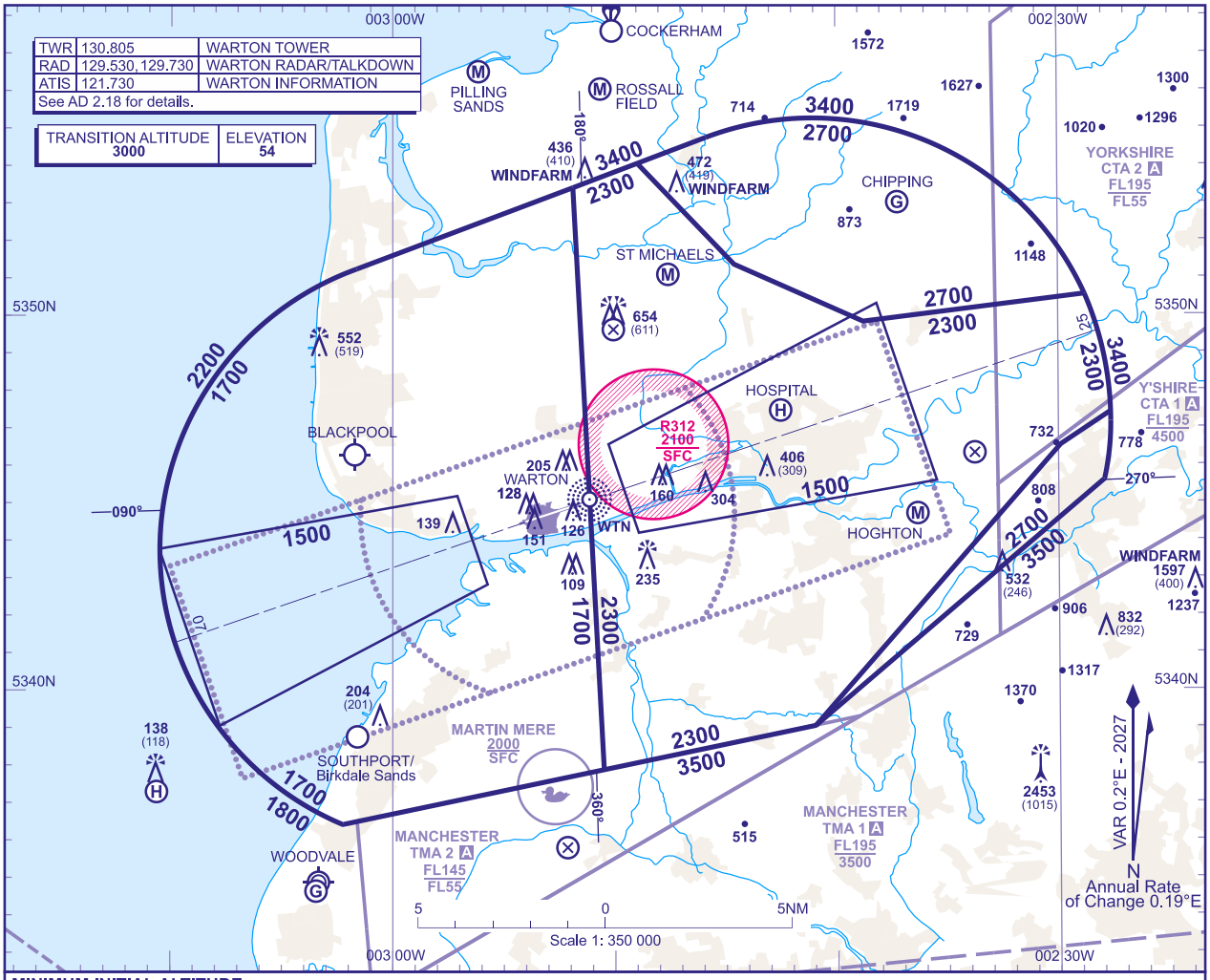
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
ELEVATIONS IN FEET AMSL 2453
HEIGHTS IN FEET AGL (1015)

WARTON



MINIMUM INITIAL ALTITUDE

Within the ATC Surveillance Minimum Altitude area the minimum initial altitude to be allocated by the approach surveillance controller is:

a) **1700** in the sector defined by the lateral limits; 535115N 0030138W - 535325N 0025152W - 533753N 0025030W - 533625N 0030215W thence clockwise by an arc of a circle radius 8NM centred on 534346N 0025704W - 535115N 0030138W.

b) **2300** in the sector defined by the lateral limits; 535325N 0025152W - 535404N 0024858W - 535122N 0024436W - 534950N 0023847W - 535033N 0022848W thence clockwise by an arc of a circle radius 8NM centred on 534716N 0024107W to 534725N 0022738W - 534632N 0022954W - 533903N 0024059W - 533753N 0025030W - 535325N 0025152W.

c) **2700** in the sector defined by the lateral limits; 535404N 0024858W - 535440N 0024548W thence clockwise by an arc of a circle radius 8NM centred on 534716N 0024107W to 535033N 0022848W - 534950N 0023847W - 535122N 0024436W - 535404N 0024858W.

d) **2700** in the sector defined by the lateral limits; 534632N 0022954W - 534725N 0022738W thence clockwise by an arc of a circle radius 8NM centred on 534716N 0024107W to 534536N 0022756W - 533903N 0024059W - 534632N 0022954W.

OUTSIDE THE DESIGNATED ATC SURVEILLANCE MINIMUM ALTITUDE AREA

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude, or **1000** above any fixed obstacles:

a) within 5NM of the aircraft*, and

b) within the sector 15NM ahead of and within 20° either side of the aircraft's track*.

*When the aircraft is within 15NM of the radar antennae, the 5NM in a) and the 15NM in b) may be reduced to 3NM and 10NM respectively.

LOSS OF COMMUNICATION PROCEDURES

Initial Approach

Continue visually or by means of an appropriate approved final approach aid. If not possible proceed at **3500**, or last assigned level if higher, to **WTN NDB**†.

Intermediate and Final Approach

Continue visually or by means of an appropriate final approach aid. If not possible follow the Missed Approach Procedure to **WTN NDB**†.

†In all cases where the aircraft returns to the holding facility the procedure to be adopted is the Radio Failure Procedure detailed at ENR 1.1.3.4.

GENERAL INFORMATION

1. Levels shown are based on QNH.
2. Only significant obstacles and dominant spot heights are shown.
3. The minimum levels shown within the ATC Surveillance Minimum Altitude Area are in conformance with the Standard European Rules of the Air - SERA.5015.
4. Minimum Sector Altitudes are based on obstacles and spot heights within 25NM of **WTN NDB**.
5. Controlled airspace with a base in excess of **5000** or FL55, as appropriate, is not shown.
6. **This chart may only be used for cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.**
7. **When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the SMAA to the FAVA altitude may only be issued if the aircraft is either established on the final approach track or on an Intercept of 40° or less, and in the case of Instrument approaches other than SRA is cleared to Intercept the final approach track.**

CHANGE (11/25): MAG INFO REVISED.

AERO INFO DATE 14 AUG 25

AD 2-EGNO-5-1

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EGBW — WELLESBOURNE MOUNTFORD

EGBW AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBW — WELLESBOURNE MOUNTFORD

EGBW AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 521132N Long: 0013652W Mid point of Runway 18/36.
2	Direction and distance from city	3.3 NM E from Stratford-on-Avon.
3	Elevation / Reference temperature / Mean Low Temperature	159 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.79°E (2027) / 0.18°E
6	AD Administration Address Telephone Telefax E-mail address Web address	RADARMOOR LTD. Wellesbourne Mountford Aerodrome, Wellesbourne, Warwickshire, CV35 9EU. 01789-842007 (Administration) 01789-842000 (Tower) 01789-470465 tower@wellesbourneairfield.com www.wellesbourneairfield.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGBW AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1600); or SS+30, whichever is earlier (and by arrangement).
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD Hours (and by arrangement). See AD 2.18.
8	Fuelling	0900 (0800) - closure time minus 15 minutes.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	All non-based movements strictly PPR. Book in at www.wellesbourneairfield.com. Out of hours movements, refuelling and night flying by arrangement.

EGBW AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL 80, 100, W80, W100, 15W50, W100+, Helix, Turbine.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGBW AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels available within 1 mile.
2	Restaurants	
3	Transportation	Taxis available on request. Nearest railway stations: Stratford-upon-Avon and Warwick Parkway.
4	Medical facilities	
5	Bank and Post Office	
6	Tourist Office	
7	Remarks	

EGBW AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category A2 available on remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGBW AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGBW AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON 1 Surface: Asphalt APRON 2 Surface: Grass
2	Taxiway width, surface and strength	Taxiway A: Surface: Asphalt Taxiway B: Surface: Asphalt Taxiway C: Surface: Asphalt Taxiway D: Surface: Asphalt Taxiway E: Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGBW AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGBW AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
18/APPROACH 36/TAKE-OFF	Vehicles on Road	521152.99N 0013654.16W	167 FT		No	
23/APPROACH 05/TAKE-OFF	Storage Building	521139.00N 0013621.00W	198 FT		No	
23/APPROACH 05/TAKE-OFF	Trees	521127.13N 0013637.46W	186 FT		No	
05/APPROACH 23/TAKE-OFF	Vehicles on Road	521111.15N 0013708.04W	175 FT		No	
36/APPROACH 18/TAKE-OFF	Concrete Posts	521102.68N 0013647.62W	160 FT		No	
36/APPROACH 18/TAKE-OFF	Tree	521057.73N 0013648.52W	204 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	Storage Building	521122.98N 0013641.87W	198 FT		No	
	Wooded Hill	521030.73N 0013654.75W	375 FT		No	

EGBW AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing/Unofficial METAR by telephone.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs and METARs. English.
7	Charts and other information available for briefing or consultation	Warnings, F214/F215/F415, RPS internet/WIFI access.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	WELLESBOURNE MOUNTFORD
10	Additional information (limitation of service, etc.)	Unofficial MET available: www.wellesbourneairfield.com/weatherdisplay.html.

EGBW AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
05	045.90°	587 x 18 M	RWY surface: Asphalt	521114.08N 0013703.20W	THR 159.0 FT	
23	225.90°	587 x 18 M	RWY surface: Asphalt	521127.34N 0013641.29W	THR 156.0 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
18	175.90°	917 x 23 M	RWY surface: Asphalt	521146.67N 0013653.47W	THR 152.0 FT	
36	355.90°	917 x 23 M	RWY surface: Asphalt	521117.22N 0013650.22W	THR 157.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 05
						RWY 23
						RWY 18
						RWY 36

EGBW AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
18	917 M	917 M	917 M	917 M	
36	917 M	917 M	917 M	917 M	
05	587 M	587 M	587 M	587 M	
23	587 M	587 M	587 M	587 M	

EGBW AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
18		Green Light intensity high	APAPI /3° 12 FT 88 M			On edge of paved area 60 M spacing Light intensity high	Red		
36		Green Light intensity high	APAPI /4.25° 12 FT 66 M			On edge of paved area 60 M spacing Light intensity high	Red		

EGBW AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 521127.50N 0013706.00W Flashing White.
2	LDI location and lighting Anemometer location and lighting	
3	TWY edge and centre line lighting	EDGE: Taxiway edge lighting available at the runway 18/36 intersections only.
4	Secondary power supply/switch-over time	
5	Remarks	

EGBW AD 2.16 HELICOPTER LANDING AREA

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EGBW AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WELLESBOURNE MOUNTFORD ATZ A circle, 2 NM radius, centred at 521132N 0013652W on longest notified runway (18/36)	Upper limit: 2000 FT AGL Lower limit: SFC	G	WELLESBOURNE INFORMATION English	6000 FT		

EGBW AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	WELLESBOURNE INFORMATION	124.030 DOC 10 NM/3000 FT			0900-1700 (0800-1600); or SS+30, whichever is earlier (and by arrangement).	ATZ hours coincident with AFIS hours, but not by arrangement.

EGBW AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGBW AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome is not available to aircraft unable to communicate by radio.

2 GROUND MOVEMENT

a) Runway 05/23 is not available from Fri 1600 (1500) - Sun 0900 (0800), or Tue 0900 (0800) following a PH, due to market.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The aerodrome is situated 3 nm from the southern boundary of the Birmingham CTA (base 1500 FT) and below the CTA (base 3500 FT). Aircraft within the vicinity of Birmingham CTA are advised to Squawk 0010 and listen out on Birmingham radar 123.980 MHz.
b) Pilots are warned that departure from the marked manoeuvring area can be hazardous.
c) Buildings to the east of the aerodrome can cause turbulance and windshear.
d) Runway edge lights are located at the outer shoulders of the runway and not at the edges of the area declared for use as the runway.
e) Aircraft should avoid overflying Stratford upon Avon Gliding Club situated 4 NM North West of Wellesbourne. Gliders winch launched to 2400 FT AMSL.
f) Grass areas, including grass Runway 18/36 are subject to restricted use or closure due to water logging and subsequent soak away, during and following periods of wet weather.
g) Reduced wingtip clearance in front of main buildings. Aircraft with a wingspan in excess of 15 M to exercise caution.

5 HELICOPTER OPERATIONS

a) Helicopter arrivals and departures to remain not above 600 FT QFE within the ATZ.

6 USE OF RUNWAYS

a) Runways 18/36 (grass) is unlicensed and can only be used if available and by prior arrangement. For details including dimensions/ declared distances contact the aerodrome.
b) Prior to any pilot using the grass strip they must receive a briefing from the FISO/Airport Manager and familiarise themselves with the runway condition including the location of the high intensity runway lighting positioned on the tarmac runway edge and the crops located on the western side of the grass.
c) Simultaneous operations on Runway 18/36 tarmac and 18/36 grass are not permitted.

7 TRAINING

a) Aerodrome does not meet criteria for training outside published hours of operation.
b) Only one non-based aircraft at a time is permitted to operate in the circuit for approaches, booking is essential.

EGBW AD 2.21 NOISE ABATEMENT PROCEDURES

a) Runway 36 departures: After departure turn right onto a track of 030° to 1000 FT QFE before turning crosswind.
b) Do not overfly Loxley (1.5 NM southwest) or Charlecote/Hampton Lucy (1 NM north) on departure.

EGBW AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit directions variable. Circuit height 1000 FT QFE. Helicopters 600 FT QFE.
b) Helicopter aiming points Whiskey and Echo for circuits, arrivals and departures. (Echo not available Saturdays and Bank Holidays)
c) No touch-and-go's allowed outside of published hours.

2 ARRIVALS

a) Overhead joins preferred.

3 RADIO COMMUNICATION FAILURE PROCEDURES

a) Standard radio failure procedures apply at Wellesbourne ENR section 1.1, paragraph 3.4.2 refers.
b) Fixed wing aircraft will join from the overhead at 2000 FT QFE, letting down to circuit height on the dead side, then join downwind at 1000 FT QFE observing any light signals displayed.
c) Rotary aircraft should arrive from the west and join midpoint downwind at 600 FT AGL for either runway 18RH or runway 36LH and aim for Heli 'W', remaining clear of all runways and final approach paths observing any light signals displayed. From 'W' air taxi to suitable parking away from any fixed-wing aircraft.

EGBW AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBW AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBW-2-1

EGBW AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

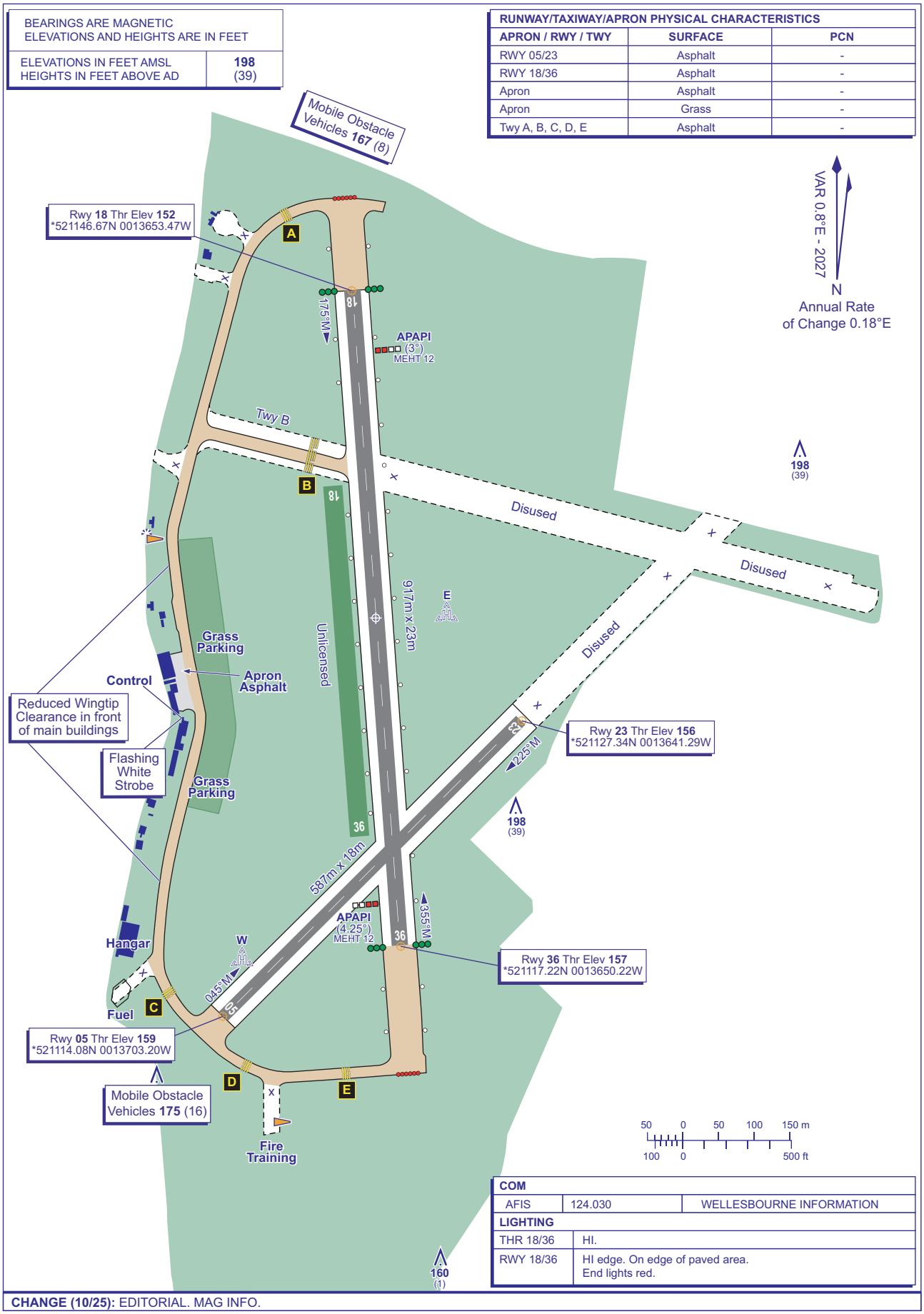
ARP 521132N 0013652W

AD ELEV 159FT

WELLESBOURNE MOUNTFORD
EGBW

BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	**198** (39)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**PCN**
RWY 05/23	Asphalt	-
RWY 18/36	Asphalt	-
Apron	Asphalt	-
Apron	Grass	-
Twy A, B, C, D, E	Asphalt	-



COM		
AFIS	124.030	WELLESBOURNE INFORMATION
LIGHTING		
THR 18/36	HI.	
RWY 18/36	HI edge. On edge of paved area. End lights red.	

CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 24 JUL 25

AD 2-EGBW-2-1

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EGCW — WELSHPOOL

EGCW AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGCW — WELSHPOOL

EGCW AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 523743N Long: 0030912W Mid point of Runway 04/22
2	Direction and distance from city	2 NM S of Welshpool.
3	Elevation / Reference temperature / Mean Low Temperature	235 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.22°E (2027) / 0.18°E
6	AD Administration Address Telephone	MID WALES AIRPORT LTD. Welshpool Aerodrome, Welshpool, Powys, SY21 8SG. 01938-555560
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGCW AD 2.3 OPERATIONAL HOURS

1	AD Administration	Licensed by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	As AD hours.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. Open Mon - Sun for aircraft that do not require the use of a licensed aerodrome. Aerodrome may be closed due to inclement weather.

EGCW AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	Limited space available - Telephone for details.
6	Repair facilities for visiting aircraft	
7	Remarks	

EGCW AD 2.5 PASSENGER FACILITIES

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EGCW AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category A2 accepted under remission. RFF available outside licensed hours by arrangement.

2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGCW AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGCW AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt NORTHERN APRON Surface: Concrete SOUTHERN APRON Surface: Concrete
2	Taxiway width, surface and strength	Taxiway NORTHERN TAXIWAY: 10 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGCW AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI (LGTD): 523749.89N, 0030907.83W.

EGCW AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCW3315) 22/APPROACH 04/ TAKE-OFF	VEHICLES ON ROAD	523756.97N 0030855.70W	249 FT		No	
(EGCW3228) 22/APPROACH 04/ TAKE-OFF	HEDGE	523756.88N 0030855.80W	240 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGCW1151)	TV MAST	523839.89N 0030511.20W	1508 FT		No	
(EGCW1161)	TREE	523743.51N 0030739.95W	470 FT		No	
(EGCW1054)	TREE	523722.75N 0031111.61W	788 FT		No	

EGCW AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGCW AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
04	035.11°	1020 x 18 M	RWY surface: Asphalt	523732.18N 0030924.36W 173.7 FT	THR 233.7 FT	
22	215.11°	1020 x 18 M	RWY surface: Asphalt	523753.59N 0030859.62W 173.7 FT	THR 233.1 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 04 Threshold displaced by 100 M. End of runway strip infringed by a hedge.
						RWY 22 Threshold displaced by 111 M. End of runway strip infringed by fences.

EGCW AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
04	799 M	799 M	799 M	902 M	
22	799 M	799 M	799 M	879 M	

EGCW AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
04		Green wingbars	APAPI Other/3° 14 FT 92 M			White Light intensity low	Red Light intensity low		

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
22		Green wingbars	APAPI Other/3° 16 FT 100 M			White Light intensity low	Red Light intensity low		THR: Runway 22 displaced threshold green wingbar lights are approximately 13 M beyond the mark threshold location.

EGCW AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGCW AD 2.16 HELICOPTER LANDING AREA

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EGCW AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WELSHPOOL ATZ A circle, 2 NM radius, centred at 523743N 0030912W on longest notified runway (04/ 22)	Upper limit: 2000 FT AGL Lower limit: SFC	G	WELSHPOOL RADIO English			

EGCW AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	WELSHPOOL RADIO	128.005 A/G frequency.			0900-1700 (0800-1600); or SS+30, whichever is earlier (and by arrangement).	ATZ hours coincident with A/G hours, but not by arrangement. A/G cover also provided Mon-Fri and Sat/Sun afternoons during aerodrome unlicensed operations.

EGCW AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	WPL	106Y 115.950 MHz	0900-1700 (0800-1800).	523747.85N 0030913.73W	252 FT	On AD. Zero range is indicated at THR of Runway 04 and 22. Any VOR indications should be ignored. Due to terrain effects, the DME may unlock in two sectors, 055 to 155 MAG and 245 to 355 MAG; range error in these sectors may be experienced up to 0.3 NM. DOC 15 NM/25000 FT.
NDB 0.21°E (2027)	WPL	323.000 kHz	0900-1700 (0800-1800).	523747.74N 0030913.90W		On AD. Range 10 NM. Normally radiates H24. Poor ADF performance may be experienced due to terrain effects.

EGCW AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome is not available to aircraft unable to communicate by radio.
b) No solo flying training for the purpose of the grant of a licence shall take place when the visibility at the aerodrome is less than 8 KM or the cloud base is less than 2500 FT above aerodrome level.

2 GROUND MOVEMENT

a) The Northern Taxiway is limited to aircraft with a wing span no greater than 12.8 M.
b) Aircraft parking is on grass apron in summer season.
c) Power checks:

   i. Rwy 22 – Alpha Hold (Avoid pointing propwash onto North Apron).
   ii. Rwy 04 – Delta Hold.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) The aerodrome is located in the River Severn Valley with high ground on each side of the valley. Pilots are advised not to descend below safety height until on final approach after having positively identified the runway.
b) The fins of aircraft parked on the Southern Apron may infringe the aerodrome transitional area.
c) Trees infringe the transitional surface by 16 M, east-southeast of the aerodrome:

   i. Single oak tree located 130 M south east of the centreline, 400 M from the north eastern end of the runway, 23 M tall;
   ii. Row of poplars located 120 M south east of the centreline, 345 M from the south western end of the runway, 34 M tall.

d) Runway 04 Procedure – Aircraft holding on the far end turning pad are to hold at marker board Delta. Landing aircraft are to note that any aircraft holding at Delta will be abeam the undershoot, separated by 70 M from the displaced threshold.

5 HELICOPTER OPERATIONS

a) Light aircraft are warned of the possible effect of wake turbulence by preceding helicopters on approach or departure. Light aircraft should also be aware of the possible effect of rotor downwash generated by large helicopters operating on the aerodrome, including the home based Air Ambulance EC145 Helicopter which may lift at short notice. Both Civil and Military Helicopter training takes place at the airfield, fields to the east and west of the runway are often used for hover practice.

6 USE OF RUNWAYS

Not applicable.

7 TRAINING

a) Rotary, fixed wing & microlight training takes place at this aerodrome.

EGCW AD 2.21 NOISE ABATEMENT PROCEDURES

a) Avoid flying overhead Powis Castle.

EGCW AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Overhead Joins 2500 FT QFE.
b) Fixed Wing Circuit 22/04 LH 1500 FT AGL.
c) Rotary Circuit LH 22/04 1200 FT AGL inboard of fixed wing circuit.
d) State Position on first contact with Welshpool Radio.

EGCW AD 2.23 ADDITIONAL INFORMATION

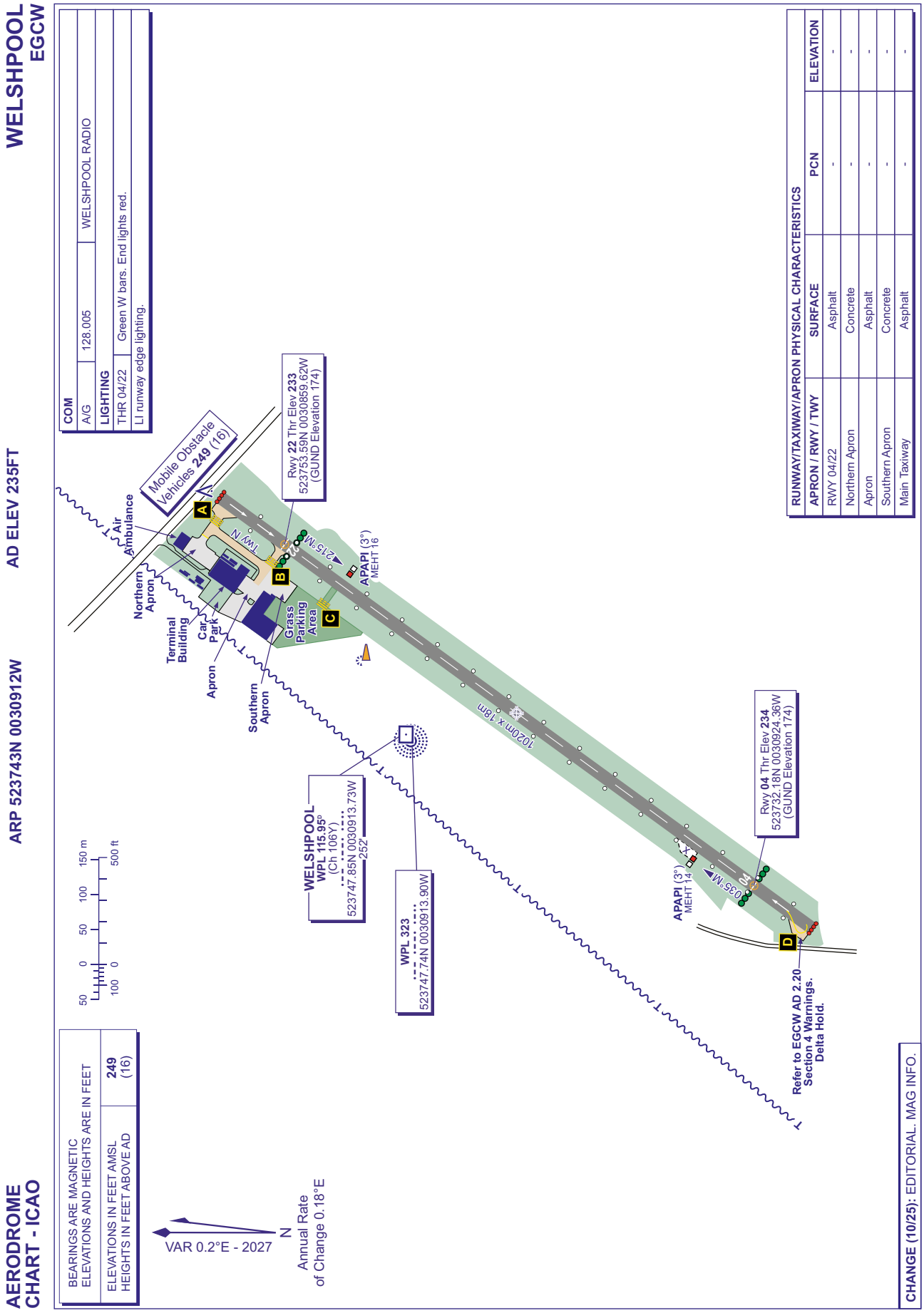
Not applicable

EGCW AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGCW-2-1

EGCW AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable


WELSHPOOL
EGCW
AERODROME
CHART - ICAO
ARP 523743N 0030912W
AD ELEV 235FT
COM
A/G 128.005 WELSHPOOL RADIO
LIGHTING
THR 04/22 Green W bars. End lights red.
LI runway edge lighting.
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY | SURFACE | PCN | ELEVATION
RWY 04/22 | Asphalt | - | -
Northern Apron | Concrete | - | -
Apron | Asphalt | - | -
Southern Apron | Concrete | - | -
Main Taxiway | Asphalt | - | -
Mobile Obstacle Vehicles 249 (16)
Air Ambulance
Rwy 22 Thr Elev 233
523753.59N 0030859.62W
(GUND Elevation 174)
Rwy 04 Thr Elev 234
523732.18N 0030924.36W
(GUND Elevation 174)
Northern Apron
Terminal Building
Car Park
Apron
Southern Apron
Grass Parking Area
Twy N
A
B
C
D
APAPI (3°)
MEHT 16
APAPI (3°)
MEHT 14
022°
215°W
040°
035°W
1020m x 18m
WELSHPOOL
WPL 115.95
(Ch 106Y)
523747.85N 0030913.73W
252°
WPL 323
523747.74N 0030913.90W
Refer to EGCW AD 2.20 Section 4 Warnings. Delta Hold.
50 0 50 100 150 m
100 0 500 ft
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL 249
HEIGHTS IN FEET ABOVE AD (16)
VAR 0.2°E - 2027
N
Annual Rate of Change 0.18°E
CHANGE (10/25): EDITORIAL. MAG INFO.

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EGFA — WEST WALES/ABERPORTH

EGFA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGFA — WEST WALES/ABERPORTH

EGFA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 520653N Long: 0043334W Mid point of Runway 07/25.
2	Direction and distance from city	4 NM east of Cardigan.
3	Elevation / Reference temperature / Mean Low Temperature	428 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	178 FT
5	Magnetic Variation / Annual Change	0.23°W (2027) / 0.19°E
6	AD Administration Address Telephone E-mail address Web address	WEST WALES AIRPORT LTD. West Wales Airport, Blaenannerch, Aberporth, Ceredigion, SA43 2DZ. 01239-811100 enquiries@flyuav.co.uk http://www.flyuav.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGFA AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri, except PH 0900-1630 (0800-1530); or SS, whichever is earlier.
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	By arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR for all movements. Requests should be made via telephone. Requests made via RTF will be considered.

EGFA AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGFA AD 2.5 PASSENGER FACILITIES

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EGFA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 available by arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGFA AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGFA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway A: 16 M Surface: Asphalt Taxiway B: 10 M Surface: Asphalt
3	Altimeter checkpoint location and elevation	Apron 424 FT - Taxiway A holding point 423 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGFA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 520650.68N 0043332.51W.

EGFA AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas					
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**	**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
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In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFA3655)	MAST	520726.72N 0043358.84W	538 FT		No	
(EGFA2803)	MAST	520656.90N 0042944.01W	775 FT		No	
(EGFA2628)	TELEGRAPH POLE	520600.72N 0043241.78W	621 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGFA2400)	TELEGRAPH POLE	520559.48N 0043300.58W	610 FT		No	

EGFA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	
6	Flight documentation Language(s) used	
7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Unofficial MET reports for the aerodrome available on the website listed at AD 2.2.

EGFA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
07	072.45°	1257 x 30 M	RWY surface: Asphalt PCN 15/F/C/Y/U	520647.17N 0043403.72W 177.9 FT	THR 406.2 FT	
25	252.46°	1257 x 30 M	RWY surface: Asphalt PCN 15/F/C/Y/U	520658.74N 0043304.27W 177.9 FT	THR 413.6 FT	

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 07 Threshold displaced by 34 M.
						RWY 25 Threshold displaced by 37 M.

EGFA AD 2.13 DECLARED DISTANCES

Runway designator	**TORA**	**TODA**	**ASDA**	**LDA**	**Remarks**
1	**2**	**3**	**4**	**5**	**6**
07	1199 M	1199 M	1199 M	1186 M	
25	1199 M	1199 M	1199 M	1186 M	

EGFA AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGFA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 520657.65N 0043334.84W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGFA AD 2.16 HELICOPTER LANDING AREA

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EGFA AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WEST WALES ABERPORTH ATZ A circle, 2 NM radius, centred at 520653N 0043334W on longest notified runway (07/25)	Upper limit: 2000 FT AGL Lower limit: SFC	G	WEST WALES INFORMATION English WEST WALES RADIO English	3000 FT		

EGFA AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	WEST WALES INFORMATION	122.155 DOC 25 NM/6000 FT.			Mon-Fri, except PH 0900-1630 (0800-1530); or SS, whichever is earlier.	ATZ hours coincident with AFIS. During these times, service may temporarily be downgraded to A/G.
OTHER	WEST WALES RADIO	122.155 A/G frequency. DOC 25 NM/6000 FT.			Mon-Fri, except PH 0900-1630 (0800-1530); or SS, whichever is earlier.	

EGFA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGFA AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) While airside each commander is responsible for the safety of his/her passengers and other crew members. Passengers are at all times to be escorted by the aircraft commander or a crew member who is known to be competent to ensure both his/her and the passengers' safety. The wearing of high visibility clothing when airside is strongly recommended.
b) Aircraft commanders or crew members, as applicable, are responsible for ensuring that a total ban on smoking while airside is observed.
c) The carriage of Dangerous Goods, as specified by The Air Navigation (Dangerous Goods) Regulations 2002, is prohibited unless written approval has been issued by the Airport Manager.
d) Use of the airport by aircraft unable to communicate via RTF, is not permitted.
e) Permission to use the airport, either to land or depart, may be withdrawn without prior notice. Withdrawal of permission may occur due to prevailing weather conditions, if it is considered that the requirements of the airports safety management system cannot be met.

2 GROUND MOVEMENT

a) Runway incursion Hot Spots HS1 and HS2 shown on Aerodrome Chart at AD 2-EGFA-2-1.
b) During times that AFIS is provided, aircraft intending to depart Runway 07/25 will continue to be subject to instructions after passing the holding points until lined up for departure.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Parts of the ATZ are located within Danger Areas EGD201H and EGD202D. Operation of these areas is not continuous and is accordingly notified via NOTAM. Aircraft given permission to use the aerodrome during notified hours of operation of these Danger Areas should use the flight procedures set out at AD 2.22.
b) Unmanned aircraft flying takes place at the aerodrome, within the ATZ and surrounding Danger Areas. During times that unmanned aircraft are airborne temporary restrictions to manned aircraft flights may be applied. Permission to use the aerodrome during these times will specify conditions which are intended to minimise delays. Unmanned aircraft flying will normally result in Danger Area EGD202D being notified active.
c) During times that EGD202D is notified active arriving flights are required to contact the current Danger Area managing authority for entry approval. This will be either:

   Aberporth Radar 120.835 MHz; or

   West Wales Radar 127.090 MHz; or

   West Wales Information 122.155 MHz.

d) During times that unmanned aircraft flying is taking place, support equipment may be present on Runway 07/25 and/or within the runway strip. During times that such equipment is present Runway 07/25 may operate unlicensed.

5 HELICOPTER OPERATIONS

a) All wheel equipped helicopters are required to land and take-off on the runway.

6 USE OF RUNWAYS

Runway 04/22 available by prior arrangement for fixed-wing aircraft not requiring use of a licensed runway.

7 TRAINING

Not applicable.

EGFA AD 2.21 NOISE ABATEMENT PROCEDURES

a) Aircraft are to be operated in a manner to cause least disturbance in areas surrounding the airport.
b) Use of Hangar 1 is subject to noise abatement requirements.

   i. No engine ground running is permitted on the paved maintenance area adjacent to the Hangar.
   ii. Subject to AFIS approval aircraft are to be towed to a designated location on Taxiway B before engine start up.
   iii. Aircraft vacating Runway 07/25 at Taxiway B are to shutdown engine(s) north of Hold B and then towed to Hangar 1.

EGFA AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuit height is 1000 FT AAL/1424 FT AMSL.
b) The following circuit directions apply when the specified runway is in use:

Runways 07 and 04 RH; Runway 25 and 22 LH.

c) Unless otherwise notified by 'West Wales Information/Radio' a standard circuit joining procedure via overhead the aerodrome is not permitted. The southern lateral limit of Danger Area EGD201H is located approximately 1 NM north of Runway 07/25 centre-line. When notified active, entry into the circuit is to ensure that aircraft avoid entry into the Danger Area. The intended entry point into the circuit should be notified to 'West Wales Information/Radio'.
d) Wheel equipped helicopters are to land and depart on the runway in use and ground taxi to/from the apron.

EGFA AD 2.23 ADDITIONAL INFORMATION

Not applicable.

EGFA AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGFA-2-1

EGFA AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

ARP 520653N 0043334W

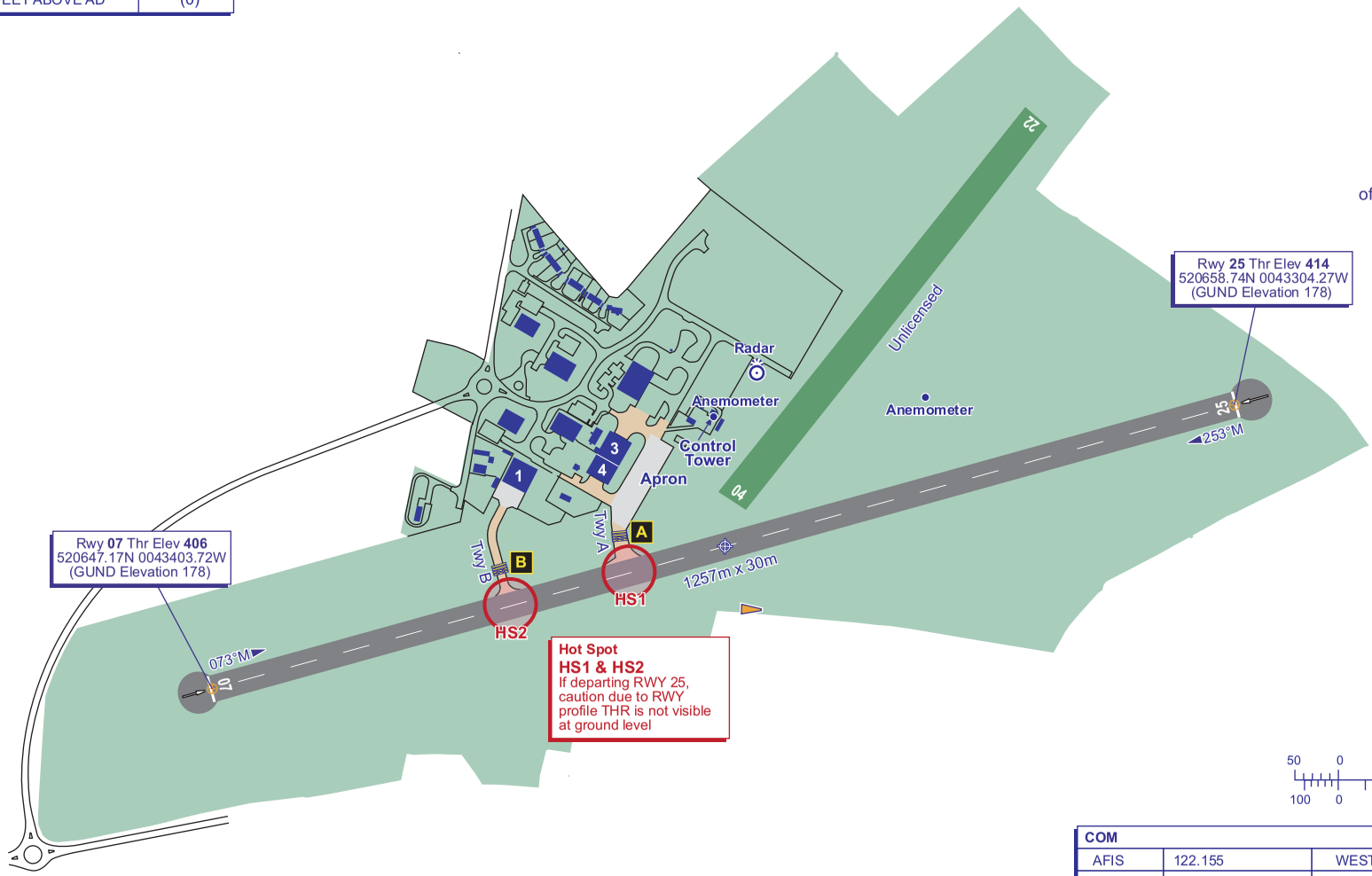
AD ELEV 428FT

WEST WALES/ABERPORTH
EGFA

AERO INFO DATE 23 JUL 25

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	428 (0)

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	PCN
RWY 07/25	Asphalt	15/F/C/Y/U
Main Apron	Asphalt	-
TWY	Asphalt	-



COM		
AFIS	122.155	WEST WALES INFO
A/G	122.155	WEST WALES RADIO

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EGEW — WESTRAY

EGEW AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGEW — WESTRAY

EGEW AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 592100N Long: 0025701W Mid point of Runway 09/27
2	Direction and distance from city	22 NM N of Kirkwall Airport.
3	Elevation / Reference temperature / Mean Low Temperature	30 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	1.54°W (2022) / 0.24°E
6	AD Administration Address Telephone Telefax E-mail address	ORKNEY ISLANDS COUNCIL Council Offices, Kirkwall, Orkney Islands, KW15 1NY, Scotland. 01856-873535 01856-876094 developmentandinfrastructure@orkney.gov.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGEW AD 2.3 OPERATIONAL HOURS

1	AD Administration	Daylight hours only, subject to PPR .
2	Customs and immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR, a valid indemnity is required. Full details of landing fees and rules for airfield users can be found on the Orkney Islands Council website: http://www.orkney.gov.uk/Service-Directory/T/airfields.htm

EGEW AD 2.4 HANDLING SERVICES AND FACILITIES

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EGEW AD 2.5 PASSENGER FACILITIES

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EGEW AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission by prior arrangement.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGEW AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	
2	Clearance priorities	
3	Remarks	Winter Operations. No snow clearing facilities available. During winter months pilots are advised to contact the Airfield Superintendent for the latest runway conditions. Tel: 01856-873535.

EGEW AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Macadam
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGEW AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

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EGEW AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEW6300) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592149.19N 0025801.25W	77 FT		No	
(EGEW5400) 13 APPROACH/31 TAKE OFF	BUILDING CHIMNEY	592120.81N 0025728.97W	77 FT		No	
(EGEW5700) 13 APPROACH/31 TAKE OFF	BUILDING RIDGE	592109.11N 0025727.80W	82 FT		No	
(EGEW5500) 13 APPROACH/31 TAKE OFF	BUILDING RIDGE	592108.85N 0025724.94W	79 FT		No	
(EGEW5600) 13 APPROACH/31 TAKE OFF	BUILDING CHIMNEY	592108.24N 0025726.14W	82 FT		No	
(EGEW5800) 13 APPROACH/31 TAKE OFF	BUILDING RIDGE	592106.83N 0025728.72W	78 FT		No	
(EGEW7200) 13 APPROACH/31 TAKE OFF	HYDRO POLE	592106.80N 0025722.17W	77 FT		No	
(EGEW7100) 13 APPROACH/31 TAKE OFF	HYDRO POLE	592105.54N 0025726.30W	72 FT		No	
(EGEW7000) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592103.99N 0025731.34W	62 FT		No	
(EGEW6900) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592102.42N 0025736.43W	56 FT		No	
(EGEW5900) 09 APPROACH/27 TAKE OFF	BUILDING CHIMNEY	592101.96N 0025727.25W	63 FT		No	
(EGEW6800) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592100.88N 0025741.44W	55 FT		No	
(EGEW6100) 09 APPROACH/27 TAKE OFF	BUILDING RIDGE	592059.90N 0025752.82W	62 FT		No	
(EGEW6000) 09 APPROACH/27 TAKE OFF	BUILDING CHIMNEY	592059.56N 0025751.17W	63 FT		No	
(EGEW6700) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592059.00N 0025747.52W	54 FT		No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEW6600) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592056.37N 0025751.18W	51 FT		No	
(EGEW6500) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592052.91N 0025756.04W	50 FT		No	
(EGEW6400) 09 APPROACH/27 TAKE OFF	HYDRO POLE	592051.01N 0025758.69W	57 FT		No	
(EGEW6200) 09 APPROACH/27 TAKE OFF	BUILDING RIDGE	592048.75N 0025756.87W	71 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGEW5300)	BUILDING RIDGE LINE	592053.37N 0025708.80W	34 FT		No	

EGEW AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGEW AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
09	083.25°	527 x 18 M	RWY surface: Graded Hardcore	592059.13N 0025716.11W	THR 30.0 FT	
27	263.26°	527 x 18 M	RWY surface: Graded Hardcore	592101.13N 0025642.99W	THR 14.0 FT	
13	128.56°	457 x 30 M	RWY surface: Grass	592106.09N 0025703.82W	THR 22.0 FT	
31	308.56°	457 x 30 M	RWY surface: Grass	592058.58N 0025645.37W	THR 15.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 09 While arriving or departing from Runway 27 for approximately 180 M the 09 threshold is not visible and when arriving or departing from Runway 09 for approximately 250 M the 27 threshold is not visible.
						RWY 27 While arriving or departing from Runway 27 for approximately 180 M the 09 threshold is not visible and when arriving or departing from Runway 09 for approximately 250 M the 27 threshold is not visible.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 13 Starter extension of 39 M.
						RWY 31 Starter extension of 46 M.

EGEW AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	527 M	527 M	527 M	527 M	
27	527 M	527 M	527 M	527 M	
13	411 M	411 M	411 M	372 M	TORA, TODA and ASDA include a 39 M starter extension.
31	418 M	418 M	418 M	372 M	TORA, TODA and ASDA include a 46 M starter extension.

EGEW AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
27		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
13		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		
31		Green Light intensity low				Omni-directional White Light intensity low	Red Light intensity low		

EGEW AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 592102.35N 0025706.95W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGEW AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	TLOF: 592104.72N 0025705.31W
2	TLOF and/or FATO elevation	TLOF: 29.8 FT
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	

EGEW AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

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EGEW AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

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EGEW AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGEW AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

Not applicable

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Rock sub-strata prevents natural drainage of water. After any period of heavy or continuous rainfall, pilots intending to land or take-off at this aerodrome should establish the location of any significant standing water or mud patches by contacting the airfield coordinator on site.
b) Visiting pilots should note that during periods of prolonged rainfall the grass runway can become very soft especially during the winter months.
c) **Runway 09/27:** Graded hardcore runway is generally unsuitable for light aircraft with low ground/propeller clearance due to unstabilised surface and as a result it would be advisable to carry out any power checks on the tarmac apron before departure.
d) No private (non-commercial) flights are permitted within 15 minutes of any scheduled airline movement.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGEW AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable

EGEW AD 2.22 FLIGHT PROCEDURES

1 COMMUNICATION

a) Contact with Kirkwall Approach is recommended.

EGEW AD 2.23 ADDITIONAL INFORMATION

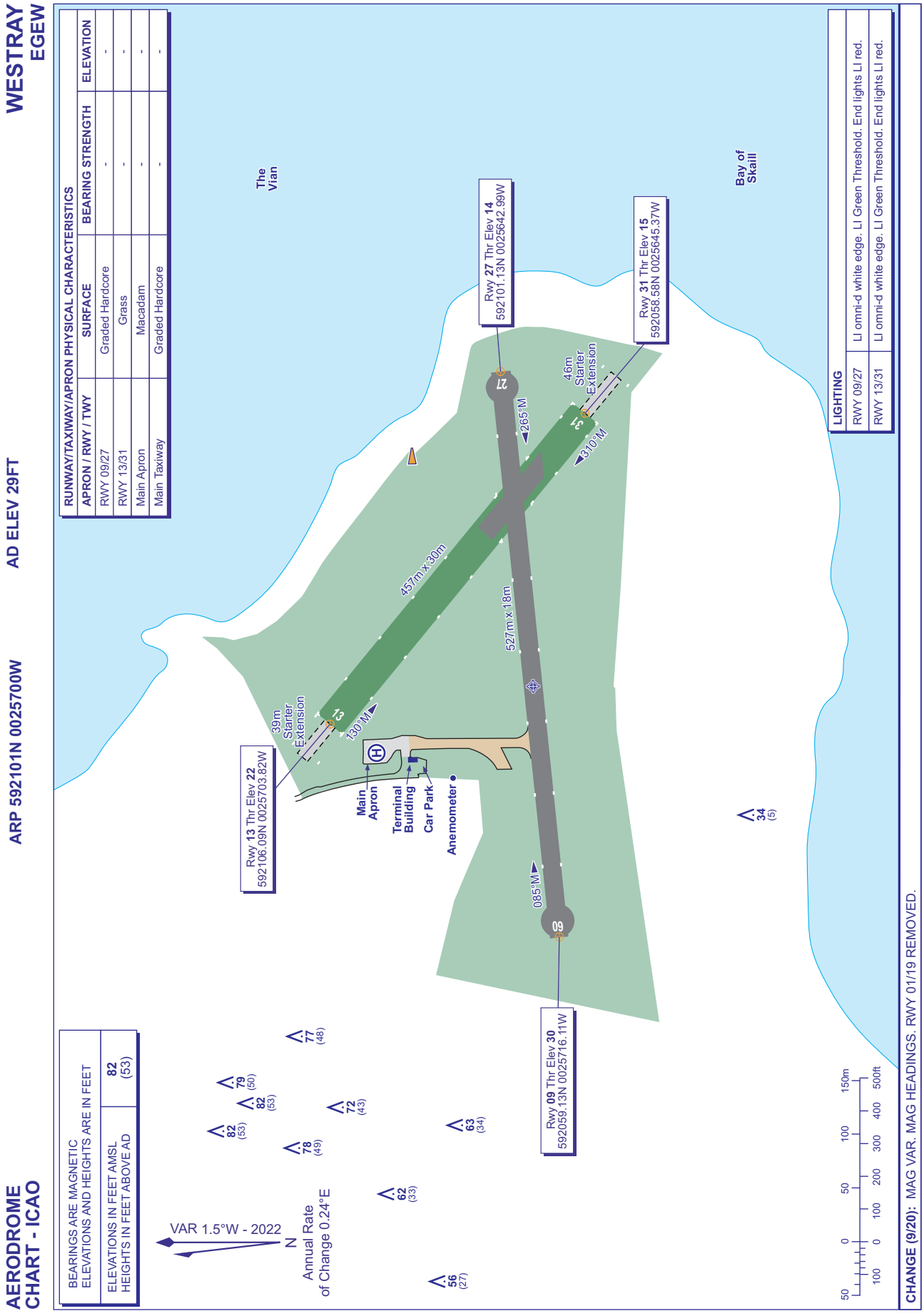
Not applicable

EGEW AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGEW-2-1

EGEW AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable


WESTRAY
EGEW
AD ELEV 29FT
ARP 592101N 0025700W
AERODROME
CHART - ICAO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
BEARING STRENGTH
ELEVATION
RWY 09/27
Graded Hardcore
-
-
RWY 13/31
Grass
-
-
Main Apron
Macadam
-
-
Main Taxiway
Graded Hardcore
-
-
LIGHTING
RWY 09/27
LI omni-d white edge. LI Green Threshold. End lights LI red.
RWY 13/31
LI omni-d white edge. LI Green Threshold. End lights LI red.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
82 (53)
VAR 1.5°W - 2022
N
Annual Rate of Change 0.24°E
The Vlan
Bay of Skaill
Rwy 13 Thr Elev 22
592106.09N 0025703.82W
Rwy 27 Thr Elev 14
592101.13N 0025642.99W
Rwy 31 Thr Elev 15
592058.58N 0025645.37W
Rwy 09 Thr Elev 30
592059.13N 0025716.11W
457m x 30m
527m x 18m
39m Starter Extension
46m Starter Extension
130°M
265°M
310°M
085°M
Main Apron
Terminal Building
Car Park
Anemometer
13
27
31
09
82 (53)
79 (50)
82 (53)
77 (48)
78 (49)
72 (43)
63 (34)
62 (33)
56 (27)
34 (5)
50 100 0 50 100 200 300 400 500ft
150m
CHANGE (9/20): MAG VAR. MAG HEADINGS. RWY 01/19 REMOVED.

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EGLM — WHITE WALTHAM

EGLM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGLM — WHITE WALTHAM

EGLM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513002N Long: 0004629W Mid point of Runway 07/25
2	Direction and distance from city	2 NM SW of Maidenhead.
3	Elevation / Reference temperature / Mean Low Temperature	133 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	152 FT
5	Magnetic Variation / Annual Change	0.31°E (2022) / 0.20°E
6	AD Administration Address Telephone Telefax	WEST LONDON AERO CLUB White Waltham Aerodrome, Nr. Maidenhead, Berks, SL6 3NJ. 01628-823272 01628-826070
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGLM AD 2.3 OPERATIONAL HOURS

1	AD Administration	0800-1630 (0700-1830); or SS+30, whichever is earlier; and by arrangement.
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18.
8	Fuelling	0800-SS (0700-1830; or SS, whichever is earlier); and by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Closing times may be earlier if weather conditions are considered unsuitable for flying training. Strictly PPR by telephone or via the website at https://www.wlac.co.uk/ppr-request/

EGLM AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (FSII additive not included), AVGAS 100LL, AVGAS UL-91 Various
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGLM AD 2.5 PASSENGER FACILITIES

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EGLM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category A2 available on remission.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGLM AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGLM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGLM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI: 512951.90N 0004636.76W

EGLM AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLM5540) 21/APPROACH 03/ TAKE-OFF	TREE	513021.48N 0004602.62W	167 FT		No	
(EGLM5585) 21/APPROACH 03/ TAKE-OFF	TREE	513018.55N 0004605.95W	156 FT		No	
(EGLM4843) 11/APPROACH 29/ TAKE-OFF	LIGHTNING CONDUCTOR	513016.20N 0004826.91W	294 FT		No	
(EGLM5510) 25R/APPROACH 07L/ TAKE-OFF	TREE	513013.25N 0004556.21W	161 FT		No	
(EGLM5471) 25R/APPROACH 07L/ TAKE-OFF	TREE	513012.54N 0004550.44W	164 FT		No	
(EGLM5892) 11/APPROACH 29/ TAKE-OFF	TREE	513003.75N 0004659.90W	180 FT		No	
(EGLM1441) 29/APPROACH 11/ TAKE-OFF	ROAD 4 8M	512948.68N 0004559.41W	130 FT		No	
(EGLM5843) 07L/25R 07R/25L TAKE-OFF/APPROACH	TREE	512943.36N 0004723.68W	209 FT		No	
(EGLM4954) 07L/APPROACH 25R/ TAKE-OFF	TREE	512943.23N 0004722.94W	207 FT		No	
(EGLM5000) 03/APPROACH 21/ TAKE-OFF	TREE	512926.24N 0004649.16W	207 FT		No	
(EGLM5824) 03/APPROACH 21/ TAKE-OFF	TREE	512925.12N 0004649.74W	211 FT		No	
(EGLM5662) 03/APPROACH 21/ TAKE-OFF	TREE	512924.85N 0004648.55W	213 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLM1299)	TREE	513121.13N 0004843.79W	545 FT		No	
(EGLM4571)	MAST	513042.75N 0004651.57W	308 FT		Yes	
(EGLM3275)	CHURCH SPIRE	512912.27N 0004722.07W	274 FT		No	

EGLM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGLM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
03	026.23°	1029 x 45 M	RWY surface: Grass	512944.68N 0004630.54W 152.1 FT	THR 114.0 FT	
21	206.24°	1029 x 45 M	RWY surface: Grass	513014.56N 0004606.95W 152.1 FT	THR 127.1 FT	
07L	064.62°	1116 x 45 M	RWY surface: Grass	512955.09N 0004653.98W 152.2 FT	THR 126.2 FT	
25R	244.63°	1116 x 45 M	RWY surface: Grass	513009.65N 0004604.82W 152.1 FT	THR 123.1 FT	
07R	064.61°	785 x 25 M	RWY surface: Grass	512954.07N 0004653.17W 152.2 FT	THR 125.3 FT	
25L	244.62°	785 x 25 M	RWY surface: Grass	513004.96N 0004616.40W 152.1 FT	THR 131.5 FT	
11	109.91°	930 x 30 M	RWY surface: Grass	512958.77N 0004647.09W 152.2 FT	THR 125.7 FT	
29	289.91°	930 x 30 M	RWY surface: Grass	512949.22N 0004604.83W 152.1 FT	THR 113.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	**9**	**10**	**11**	**12**	**13**	**14**
		- x 101 M	90 x 90 M -			RWY 03
		- x 101 M	90 x 90 M -			RWY 21
		- x 101 M	90 x 90 M -			RWY 07L
		- x 101 M	90 x 90 M -			RWY 25R Threshold displaced by 67 M.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		- x 67 M	90 x 50 M -			RWY 07R
		- x 67 M	90 x 50 M -			RWY 25L
		- x 86 M	90 x 60 M -			RWY 11
		- x 86 M	90 x 60 M -			RWY 29 Threshold displaced by 63 M.

EGLM AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
07L	1116 M	1116 M	1116 M	1116 M	
25R	1116 M	1116 M	1116 M	1049 M	
03	1029 M	1029 M	1029 M	1029 M	
21	1029 M	1029 M	1029 M	1029 M	
11	930 M	930 M	930 M	930 M	
29	930 M	930 M	930 M	867 M	
07R	785 M	785 M	785 M	785 M	
25L	785 M	785 M	785 M	785 M	

EGLM AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGLM AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 513001.91N 0004552.63W
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGLM AD 2.16 HELICOPTER LANDING AREA

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EGLM AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WHITE WALTHAM ATZ A circle, 2 NM radius, centred at 513002N 0004629W on longest notified runway (07L/ 25R)	Upper limit: 2000 FT AGL Lower limit: SFC	D G	WALTHAM RADIO English	6000 FT		Local Flying Area see EGLM AD 2.22 paragraph (3). Note: Partly within London CTR.

EGLM AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	WALTHAM RADIO	122.605 A/G frequency.			0800-1630 (0700-1830); or SS+30, whichever is earlier; and by arrangement.	Closing times may be earlier if weather conditions are considered unsuitable for flying training. ATZ hours coincident with A/G hours, but not by arrangement.

EGLM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGLM AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Users of the aerodrome should be familiar with the West London Aero Club Operations Manual which is available at the aerodrome or on the internet at **https://www.wlac.co.uk**

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The aerodrome is located immediately to the west of the London CTR and part of the White Waltham ATZ to the east lies within the London CTR.
b) The aerodrome surface is rough and undulating.
c) Vehicular traffic, not under the control of the aerodrome operator, uses the perimeter track which bounds the manoeuvring area to the west and north of the aerodrome and pilots are cautioned to exercise extreme vigilance when operating aircraft and to use only established taxiways in order to ensure safe clearance.
d) Aerobatics display practice may take place in the airfield overhead.
e) Drone testing takes place on the aerodrome up to 400 FT AGL.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGLM AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots of departing aircraft are requested to conform with Local Noise Abatement Procedures. Details are available in the briefing room, on the website and via a briefing from Operations. Pilots should take care that operating noise is kept to a minimum. No flying over built up areas, avoid overflying local villages.

EGLM AD 2.22 FLIGHT PROCEDURES

1 REPORTING POINTS AND ARRIVALS

a) Aircraft arriving at White Waltham aerodrome are to approach by one of the reporting points November, Sierra or Whiskey shown on the Traffic Zone Chart at AD 2-EGLM-4-1.
b) Aircraft are to arrive overhead the aerodrome at 1200 FT QFE and then carry out a standard overhead join from this height.

2 AIRCRAFT IN THE LONDON CTR OUTSIDE THE WHITE WALTHAM LOCAL FLYING AREA (LFA)

a) Pilots operating on a VFR or Special VFR clearance in the London CTR inbound to White Waltham (or otherwise) must not assume a clearance has been given to penetrate the ATZ.
b) Pilots requiring a VFR or Special VFR clearance to transit the London CTR must remain within the confines of the White Waltham LFA until a clearance has been obtained from Heathrow Radar.

3 LOCAL FLYING AREA (LFA)

a) White Waltham Aerodrome Local Flying Area (LFA) (see AD 2-EGLM-4-1) is defined as that portion of the White Waltham ATZ contained within the London Control Zone. VFR flights may take place within the LFA subject to the following conditions:

   i. In compliance with the Class D Airspace weather minima as defined in ENR 1.2;
   ii. Maximum altitude: 1500 ft QNH;

   Note 1: *Pilots of aircraft flying under VFR in the LFA are responsible for providing their own separation from other aircraft operating in the relevant airspace. SVFR flights are required to be separated by Heathrow Radar.*

   Note 2: *Aircraft unable to operate VFR may operate Special VFR within the LFA subject to:*

   (i) The conditions in paragraph (a)(i) and (ii);

   (ii) The requirements for Special VFR flights detailed in ENR 1.2 and;

   (iii) Subject to approval from Heathrow Radar.

b) Mode S Transponders

   i. The carriage of a Mode S Transponder within the LFA is encouraged, however there is currently no requirement for aircraft operating in the White Waltham LFA to comply with the requirements of the London CTR Mode S Transponder Mandatory Zone (TMZ).
   ii. Pilots of suitably equipped aircraft shall utilise the transponder to the maximum serviceable extent, selecting SSR code 7000 with altitude information selected where fitted.

4 CIRCUITS

a) All joins normally overhead at 1200 FT QFE; circuit height 800 FT QFE.

EGLM AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGLM AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGLM-2-1
WHITE WALTHAM TRAFFIC ZONE
AD 2.EGLM-4-1

EGLM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

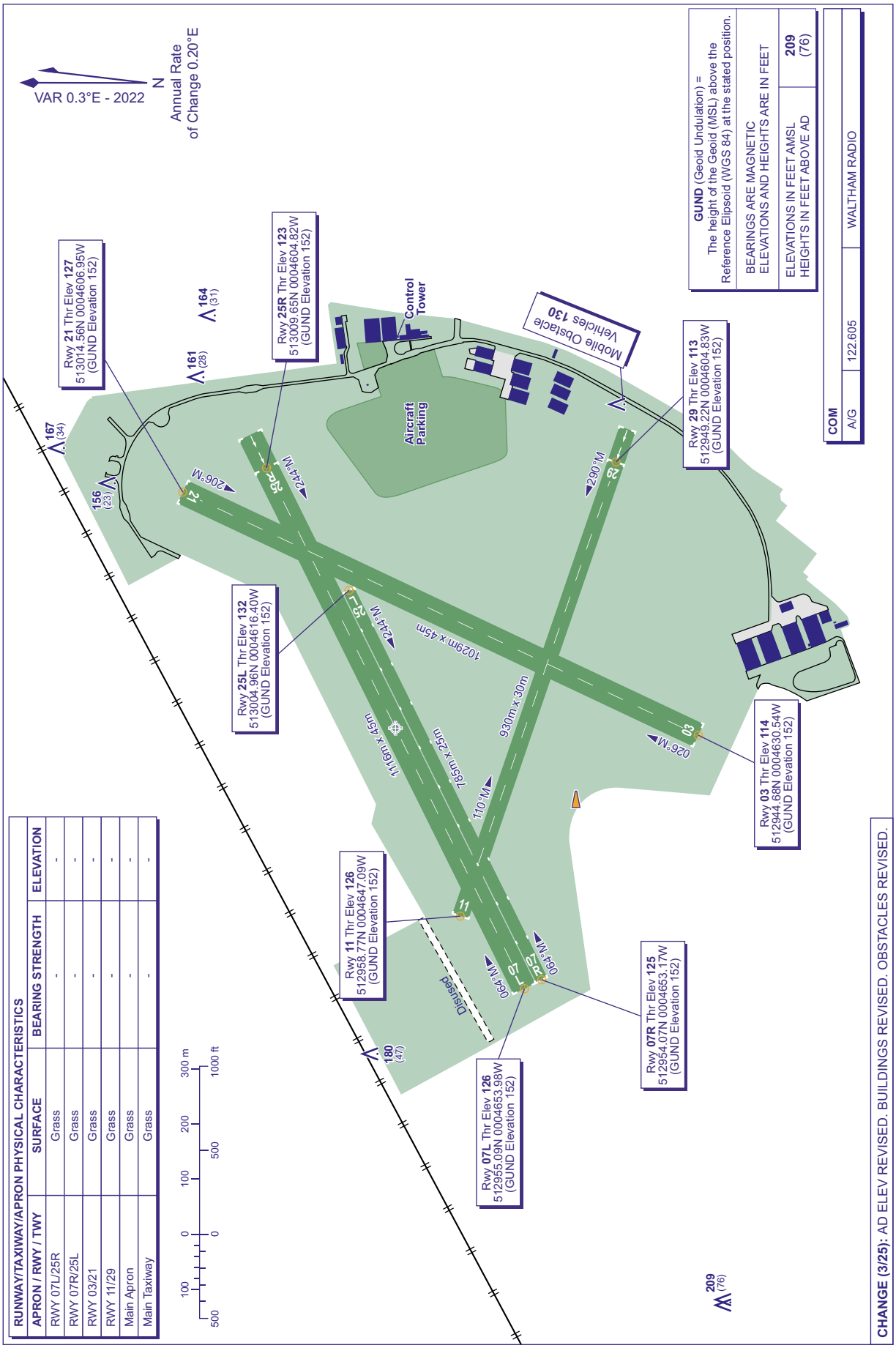
Not applicable

WHITE WALTHAM EGLM

AERODROME CHART - ICAO

ARP 513002N 0004629W

AD ELEV 133FT



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 07L/25R	Grass	-	-
RWY 07R/25L	Grass	-	-
RWY 03/21	Grass	-	-
RWY 11/29	Grass	-	-
Main Apron	Grass	-	-
Main Taxiway	Grass	-	-

CHANGE (3/25): AD ELEV REVISED. BUILDINGS REVISED. OBSTACLES REVISED.

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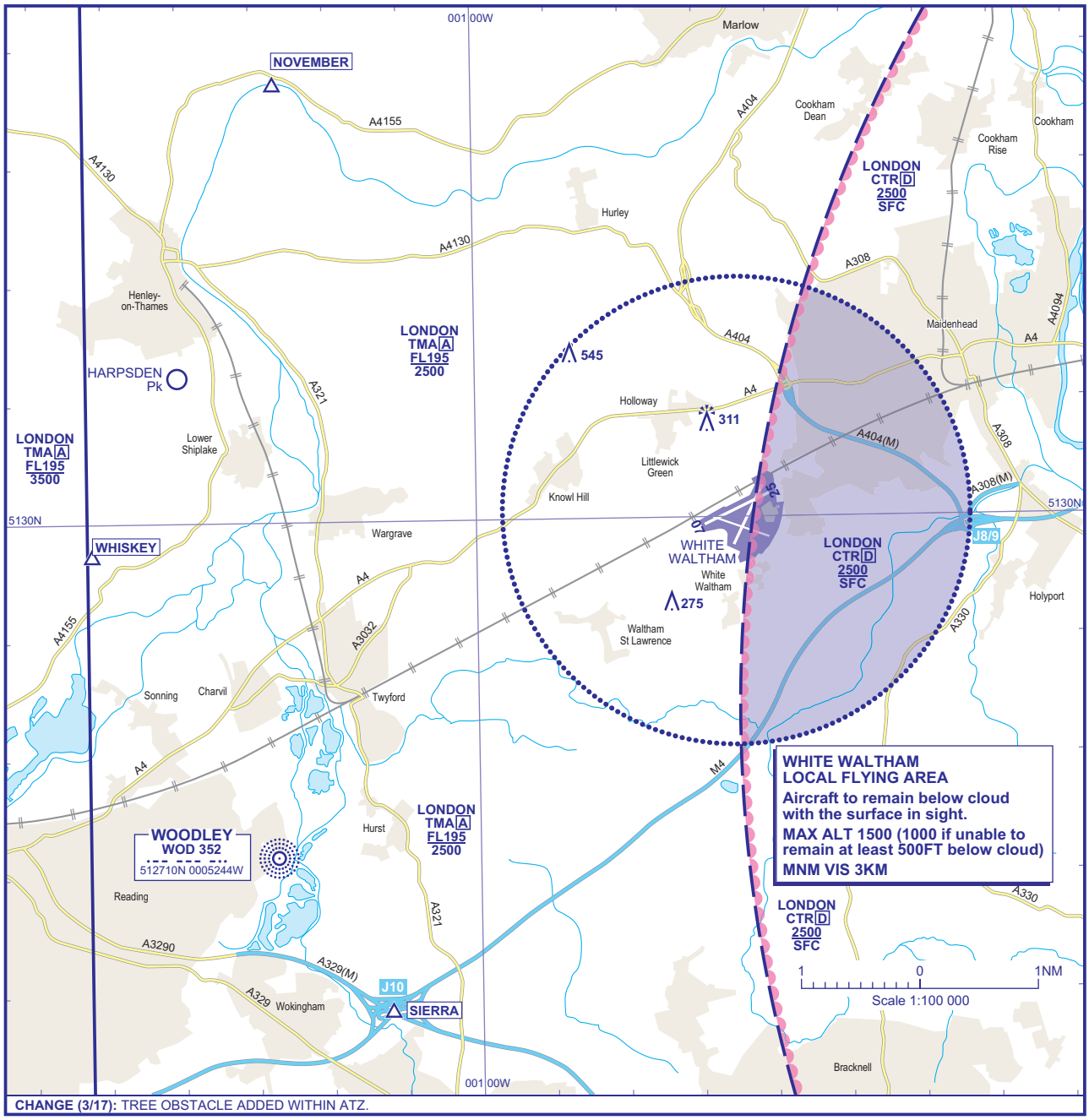
WHITE WALTHAM TRAFFIC ZONE



CHANGE (3/17): TREE OBSTACLE ADDED WITHIN ATZ.

AERO INFO DATE 21 NOV 16

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EGPC — WICK

EGPC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGPC — WICK

EGPC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 582732N Long: 0030535W Mid point of Runway 13/31.
2	Direction and distance from city	1 NM N of Wick.
3	Elevation / Reference temperature / Mean Low Temperature	126 FT / 14 °C / -
4	Geoid undulation at AD ELEV PSN	167 FT
5	Magnetic Variation / Annual Change	1.47°W (2022) / 0.23°E
6	AD Administration Address Telephone Telefax	HIAL Wick Aerodrome, Wick, Caithness, KW1 4QP. 01955-602215 (Administration) 01955-607583 (ATC) 01955-607579 (SATCO) 01955-607596 (ATIS) 01955-604750 (ATC) 01955-605946 (Administration)
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGPC AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Fri 0800-2000 (0700-1900); Sun 1400-1600 (1300-1500); and by arrangement with AD Operator (HIAL).
2	Customs and immigration	By arrangement with HIAL or Far North Aviation.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18
8	Fuelling	H24 by arrangement with Far North Aviation.
9	Handling	H24 by arrangement with Far North Aviation.
10	Security	As AD hours.
11	De-icing	Operational hours.
12	Remarks	This aerodrome is PPR.

EGPC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement with Far North Aviation. Nearest railway siding: Wick.
2	Fuel and oil types	AVTUR JET A-1, AVGAS 100LL Oil: All grades
3	Fuelling facilities/capacity	Stored overground in tanks and bowsers. Delivered by bowser.
4	De-icing facilities	By arrangement with Far North Aviation.
5	Hangar space for visiting aircraft	50,000 sq FT.
6	Repair facilities for visiting aircraft	By arrangement with Far North Aviation.

7	Remarks	Fuelling/Handling via Far North Aviation by Tel: 01955-602201, Fax: 01955-602203 or RTF (131.560 MHz callsign 'Far Nor'). Helicopter rotors running refuelling available by arrangements with HIAL and Far North Aviation. Oxygen, nitrogen and related servicing available from Far North Aviation. Survival suits, lifejackets and dinghies available from Far North Aviation.

EGPC AD 2.5 PASSENGER FACILITIES

1	Hotels	Wick and surrounding area.
2	Restaurants	Vending machines in terminal.
3	Transportation	Car Hire and taxis available.
4	Medical facilities	First Aid.
5	Bank and Post Office	Wick.
6	Tourist Office	Wick.
7	Remarks	Aviramp, stair climber and wheelchairs available for passengers with reduced mobility.

EGPC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A4 RFF Category 4 Mon-Fri, Sun. RFF Category 5 accepted under remission. RFF Category 6 by prior arrangement.
2	Rescue equipment	Off road trailer unit for 1000 M response.
3	Capability for removal of disabled aircraft	Limited.
4	Remarks	

EGPC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Mechanical. Chemical de-icing/anti-icing. Surfaces de-iced/anti-iced with KAC/EG and/or NAAC.
2	Clearance priorities	Runway 13/31, Taxiways, Apron, Airport domestic area.
3	Remarks	Latest information from ATC, Tel: 01955-602215, Ext 583.

EGPC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	MAIN APRON Surface: Concrete and asphalt PCN 25/R/B/W/T NORTH APRON Surface: Asphalt PCN 20/F/B/W/T SOUTH APRON Surface: Asphalt PCN 10/F/C/X/T
2	Taxiway width, surface and strength	Taxiway APRON-HOLD C: 14 M Surface: Asphalt PCN 14/F/C/X/T LOOP TAXIWAY Taxiway APRON-HOLD E: 14 M Surface: Asphalt PCN 14/F/C/X/T LOOP TAXIWAY
		Taxiway HOLD E-HOLD E1: 10.5 M Surface: Asphalt PCN 10/F/C/X/T LOOP TAXIWAY

		Taxiway NORTH: 14 M Surface: Asphalt PCN 10/F/C/X/T HOLD D TO HOLD D1 BEFORE NORTH APRON
3	Altimeter checkpoint location and elevation	Apron 118 FT
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGPC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	Runway marking aid(s): 13/31: TDZ markings, Runway designation, centre-line and threshold markings. Runway light(s): 13/31: HI edge, threshold wingbar and stopend lighting. Taxiway marking aid(s): Yellow centre-line.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDIs (LGTD): 582739.89N 0030543.69W; 582722.71N 0030526.06W.

EGPC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPC7607) 13/APPROACH 31/ TAKE-OFF	TREE	582747.87N 0030636.39W	134 FT	36 FT	No	
(EGPC7448) 13/APPROACH 31/ TAKE-OFF	WDI	582739.89N 0030543.69W	153 FT	25 FT	Yes Red	
(EGPC7050) 13/APPROACH 31/ TAKE-OFF	ANEMOMETER	582735.72N 0030556.92W	157 FT	36 FT	Yes Red	
(EGPC7458) 31/APPROACH 13/ TAKE-OFF	WDI	582722.71N 0030526.06W	146 FT	26 FT	Yes Red	
(EGPC7059) 31/APPROACH 13/ TAKE-OFF	ANEMOMETER	582716.85N 0030508.88W	150 FT	36 FT	Yes Red	
(EGPC7018) 31/APPROACH 13/ TAKE-OFF	VDF	582714.31N 0030503.46W	131 FT	19 FT	Yes Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPC7049)	WINDTURBINE	582927.78N 0030939.56W	189 FT	89 FT	No	
(EGPC6081)	LIGHT HOUSE	582844.50N 0030303.17W	199 FT	71 FT	No	
(EGPC6086)	TELEGRAPH POLE	582817.97N 0030421.97W	180 FT	37 FT	No	
(EGPC6085)	POLE	582815.78N 0030424.65W	176 FT	33 FT	No	
(EGPC6084)	BUILDING	582815.70N 0030423.54W	178 FT	35 FT	No	
(EGPC1314)	TELEGRAPH POLE	582803.73N 0030922.36W	225 FT	31 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGPC7028)	TREE	582710.84N 0030504.20W	144 FT	33 FT	No	
(EGPC7042)	WINDTURBINE	582620.94N 0031430.49W	567 FT	334 FT	No	
(EGPC7292)	SILO	582614.25N 0030730.44W	200 FT	66 FT	No	
(EGPC7298)	FLOODLIGHT	582614.02N 0030732.26W	196 FT	50 FT	No	
(EGPC7004)	WINDTURBINE	582612.63N 0031154.21W	505 FT	327 FT	No	
(EGPC7039)	WINDTURBINE	582610.95N 0031413.45W	575 FT	330 FT	No	
(EGPC7005)	WINDTURBINE	582606.78N 0031222.95W	513 FT	329 FT	No	
(EGPC7284)	MAST	582601.77N 0030511.25W	208 FT	106 FT	Yes Red	
(EGPC7301)	TREE	582547.20N 0030710.31W	233 FT	65 FT	No	
(EGPC7307)	WIND TURBINE	582507.42N 0030713.60W	285 FT	119 FT	Yes	
(EGPC7279)	MAST	582337.91N 0030727.53W	636 FT	399 FT	Yes Red	

EGPC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE ABERDEEN
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	MET OFFICE ABERDEEN 9 hours.
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing/Telephone provided by Far North Aviation or ATC.
6	Flight documentation Language(s) used	Charts abbreviated plain language text. TAFs/METARs. English.
7	Charts and other information available for briefing or consultation	Available on request from ATC.
8	Supplementary equipment available for providing information	Fax. ATIS on 01955-607596 (H24).
9	ATS units provided with information	WICK
10	Additional information (limitation of service, etc.)	Outside aerodrome hours unverified automatic observation via ATIS on telephone number above.

EGPC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
13	126.97°	1831 x 45 M	RWY surface: Asphalt, Grooved PCN 20/F/B/W/T	582744.52N 0030607.61W 167.3 FT	THR 113.5 FT TDZ 124.5 FT	
31	306.98°	1831 x 45 M	RWY surface: Asphalt, Grooved PCN 20/F/B/W/T	582719.63N 0030504.53W 167.3 FT	THR 114.3 FT TDZ 125.5 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
	150 x 150 M	1749 x 280 M				RWY 13 Threshold displaced by 247 M. Due to the runway profile, the end of the Runway 13 LDA is not visible, from an eye height of 3 M, until 480 M from the start of the LDA; ie 920 M prior to the end of the LDA.
	150 x 150 M	1749 x 280 M				RWY 31 Threshold displaced by 304 M. Due to the runway profile, the end of the Runway 31 LDA is not visible, from an eye height of 3 M, until 725 M from the start of the LDA; ie 673 M prior to the end of the LDA.

EGPC AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
13	1746 M	1896 M	1746 M	1409 M	
31	1714 M	1864 M	1714 M	1410 M	
31	1339 M	1489 M	1339 M		Take-off from intersection with Taxiway C.
31	1087 M	1237 M	1087 M		Take-off from intersection with Taxiway F.

EGPC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
13	Centre-line with two crossbars. 330 M Light intensity high	Light intensity high Green wingbars	PAPI Left/3° 25 FT 120 M			HI elev bi-directional with LI omni-directional component	Red	Red	
31	Centre-line with two crossbars. 390 M Light intensity high	Light intensity high Green wingbars	PAPI Left/3° 25 FT 138 M			HI elev bi-directional with LI omni-directional component	Red	Red	

EGPC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: 582735.72N 0030556.92W (LGTD); 582716.85N 0030508.88W (LGTD) and 582718.19N 0030538.56W (LGTD).

3	TWY edge and centre line lighting	CL: Green centre-line reflectors on loop from Main Apron to Hangar and North Taxiway. EDGE: Blue taxiway edge lights from Main Apron to Runway 13/31. Blue edge reflectors on all other taxiways.
4	Secondary power supply/switch-over time	Yes/15 seconds.
5	Remarks	Apron floodlights. Obstacle lighting.

EGPC AD 2.16 HELICOPTER LANDING AREA

INTENTIONALLY BLANK

EGPC AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WICK ATZ A circle, 2 NM radius, centred at 582732N 0030535W on longest notified runway (13/ 31)	Upper limit: 2000 FT AGL Lower limit: SFC	G	WICK APPROACH English	3000 FT		

EGPC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	WICK APPROACH	119.705			Mon-Fri 0800-2000 (0700-1900); Sun 1400-1600 (1300-1500); and by arrangement with AD Operator (HIAL).	ATZ hours coincident with Approach hours. VDF 582714.31N 0030503.46W.
TWR	WICK TOWER	119.705 DOC 40 NM/ 15,000 FT			Mon-Fri 0800-2000 (0700-1900); Sun 1400-1600 (1300-1500); and by arrangement with AD Operator (HIAL).	VDF 582714.31N 0030503.46W.
AFIS	WICK INFORMATION	119.705			By arrangement outside hours of ATC. Normally, only available for SAR and Ambulance flights and aircraft in emergency	Due to AFISO training and maintenance of currency, AFISO phraseology may be in use during ATC published hours, with ATC in attendance. ATC service will remain available at all times. Pilots will be advised of periods of AFISO training, normally via ATIS.
ATIS	WICK INFORMATION	113.600 Freq shared with VOR WIK.			Mon-Fri 0800-2000 (0700-1900); Sun 1400-1600 (1300-1500); and by arrangement with AD Operator (HIAL).	
OTHER	WICK FIRE CHIEF	121.600 Non-ATS frequency.			Available when Fire vehicle attending aircraft on the ground in an emergency.	

EGPC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME 0.44°W (2027) 0.8°W (2022)	WIK	83X 113.600 MHz	Mon-Fri 0800-2000 (0700-1900); Sun 1400-1600 (1300-1500); and by arrangement with AD Operator (HIAL).	582731.74N 0030601.34W	145 FT	VOR/DME DOC: 100 NM/50,000 FT (160 NM/50,000 FT in Sector R331-001). Available for approach and landing purposes only during the hours of APP.
NDB (L) 0.42°W (2027)	WCK	344.000 kHz	Mon-Fri 0800-2000 (0700-1900); Sun 1400-1600 (1300-1500); and by arrangement with AD Operator (HIAL).	582648.11N 0030347.23W		Normally radiates H24. Range 30 NM. Available for approach and landing purposes only during the hours of APP.

EGPC AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Use of this airport by aircraft not able to communicate with ATC by radio is strictly PPR.
b) Aircraft that do not require the use of a licensed aerodrome and that wish to operate outwith the notified aerodrome hours of operation must comply with Highlands and Islands Airport Ltd Out of Hours Indemnity Scheme. During periods when the aerodrome is snow closed to facilitate snow clearing and/or de-icing operations out of hours indemnities are suspended and no flights may operate. Details of the scheme and an application form can be obtained at: https://www.hial.co.uk/general-aviation-7/general-aviation-4 or from HIAL Business Support Team, Tel: 01667-462445; Fax: 01667-464208.
c) Use of Wick aerodrome is subject to standard Terms and Conditions of Use, which can be requested from the aerodrome.
d) High visibility clothing must be worn airside at all times.

2 GROUND MOVEMENT

a) During periods of aircraft congestion on the apron, marshalling will be provided by HIAL.
b) Start-up requests are mandatory on all aprons.
c) Pilots must request and follow ATC taxi instructions.

3 CAT II/III OPERATIONS

Not applicable.

4 WARNINGS

a) Except for light signals, ground signals are not displayed.
b) Pilots are advised to exercise caution as this aerodrome has a deer hazard, particularly during the periods of dawn and dusk, although patrols are mounted whenever the presence of deer is known or anticipated. Pilots are requested to report the location of any animals on the aerodrome to ATC.
c) In Winter months there is increased bird activity in the vicinity of the aerodrome due to over wintering geese.
d) Grass areas are soft and unsafe. Poor load bearing characteristics may be found on the runway/taxiway strips and the area adjacent to the apron. Only marked taxiway to be used.
e) Loop Taxiway from Runway 13/31 through hold C, B & A, and North Taxiway through hold D and D1, is restricted to aircraft with an outer main gear wheel span not exceeding 8 M. Loop Taxiway through hold E and E1 is restricted to aircraft with an outer main gear wheel span not exceeding 6 M.

5 HELICOPTER OPERATIONS

a) Rotors running refuelling is available if Far North Aviation are provided with a copy of the Helicopter Operators written instructions regarding the aircraft, the required safety measures and the emergency procedures to be followed. All passengers must disembark before refuelling commences, unless in exceptional circumstances at the discretion of the aircraft commander.

6 USE OF RUNWAYS

a) Runway departure restriction for aircraft requiring the use of a licensed aerodrome:

   i. **Runway 13/31.** Except where an AOC holder has a less restrictive State authorised take-off minima, departures when the reported MET visibility is 400 M or less are not permitted.

b) Arriving aircraft on Runway 31 are required to backtrack and exit via Hold C. Pilots should commence backtrack as soon as practicable and successive inbound aircraft will be informed by ATC if required.
c) Departing aircraft are required to backtrack Runways 13 and 31 via Hold C. Backtracking should be as expeditious as possible. Pilots must inform ATC prior to entering the runway if they are aware that they will not be ready for departure on line up. Clearances or departure instructions will be issued during taxi.

7 TRAINING

a) The use of the airport for training purposes is subject to prior arrangement with ATC, Tel: 01955-602215, Ext 583.

EGPC AD 2.21 NOISE ABATEMENT PROCEDURES

Not applicable.

EGPC AD 2.22 FLIGHT PROCEDURES

1 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

2 NORTH ATLANTIC DEPARTURES

a) Due to the proximity of the Shanwick Oceanic boundary to Wick, pilots must consider timescales for submitting an 'RCL'. Refer to ENR 2.2, paragraph 3.8.2 for details.

3 RADIO COMMUNICATION FAILURE PROCEDURES

a) The pilot of a VFR flight experiencing communications failure should join overhead at 2000 FT and descend into the circuit pattern for the runway-in-use watching for light signals from the Tower all the while. Should a light signal not be forthcoming on turning onto final approach, the pilot should level off at not below 400 FT and fly parallel to the runway, and adjacent to the Tower, to attract attention.

4 CIRCUITS

a) Circuit Height: 1000 FT AAL unless directed by ATC.
b) Circuit Directions: Runway 13 - LH; Runway 31 - RH.
c) Joining instructions as directed by ATC.

5 VISUAL REFERENCE POINTS (VRP)

a) Castletown (Disused AD) and Loch Watten lack conspicuity at night and are unsuitable.
b) Castletown (Disused AD) is close to the let-down pattern for Runway 13, the direct arrival to Runway 13, the missed approach procedure for Runway 31, and helicopters on HMRIs X-RAY and YANKEE.
c) Loch Watten is close to the let-down pattern for Runway 13 and missed approach Runway 31.
d) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

6 UK FLIGHT INFORMATION SERVICES

a) During notified ATC hours of service:

   i. A procedural ATS will be routinely applied to IFR flights. Pilots will be expected to accept levels, radials, tracks and/or time allocations that may require flight in IMC, to achieve planned deconfliction minima from other aircraft being provided with a procedural ATS;

ii. Pilots must use conventional navigation aids when receiving a procedural ATS that includes deconfliction from other traffic, and not use FMS overlays for the purpose;
iii. A basic ATS will be applied to VFR flights. Agreements may be requested which restrict aircraft to a specific level, level band, heading, route, or operating area for the purposes of co-ordination and/or to facilitate the safe use of airspace;
iv. A pilot may request another ATS if considered more appropriate.

b) Outside notified ATC hours of service:

i. A basic ATS will be applied to SAR and ambulance flights by an AFISO.

7 TRANSITION LEVEL

a) Pilots of inbound IFR aircraft shall acknowledge receipt of the Transition Level on first contact with Wick ATSU. The Transition Level will be broadcast on ATIS.

8 TRANSPONDER MANDATORY ZONE ACCESS

a) Pilots are reminded of the proximity of the Moray Firth Transponder Mandatory Zone and of the pilot's responsibility to remain clear of airspace for which they are not suitably equipped to enter. Many of the approaches to Runway 31 and most arrivals from the south east will enter the Moray Firth TMZ; as such pilots must state if they are not equipped to enter a TMZ to the relevant controlling agency.

b) Suitably equipped aircraft may access the Moray Firth TMZ without ATS approval although such traffic is strongly recommended to afford itself of an ATS from either Wick, Lossiemouth or Scottish Control.

c) The pilot of an aircraft that wishes to operate in the Moray Firth TMZ without serviceable transponder equipment as defined in GEN 1.5 para 5.3 may be granted access to the TMZ subject to specific ATC approval. This approval may be obtained with prior notice from Wick ATC or from Lossiemouth Departures. Pilots of departing aircraft from Wick AD without a serviceable transponder must notify Wick ATC of their transponder status on start.

EGPC AD 2.23 ADDITIONAL INFORMATION

a) Aircraft operators are responsible for the searching of any aircraft parked either overnight or within the demarcated area prior to departure.

EGPC AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGPC-2-1
INSTRUMENT APPROACH CHART RNP RWY 13 (CAT A,B,C) - ICAO
AD 2.EGPC-8-1
INSTRUMENT APPROACH CHART VOR/DME RWY 13 - ICAO
AD 2.EGPC-8-2
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 13 - ICAO
AD 2.EGPC-8-3
INSTRUMENT APPROACH CHART DIRECT ARRIVALS TO VOR/NDB(L) RWY 13 - ICAO
AD 2.EGPC-8-4
INSTRUMENT APPROACH CHART RNP RWY 31 (CAT A,B,C) - ICAO
AD 2.EGPC-8-5
INSTRUMENT APPROACH CHART VOR/DME RWY 31 - ICAO
AD 2.EGPC-8-6
INSTRUMENT APPROACH CHART DIRECT ARRIVALS TO VOR/DME RWY 31 - ICAO
AD 2.EGPC-8-7
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 31 - ICAO
AD 2.EGPC-8-8
INSTRUMENT APPROACH CHART DIRECT ARRIVALS to NDB(L)/DME RWY 31 - ICAO
AD 2.EGPC-8-9
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 13
AD 2.EGPC-8-10
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 31
AD 2.EGPC-8-11

EGPC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

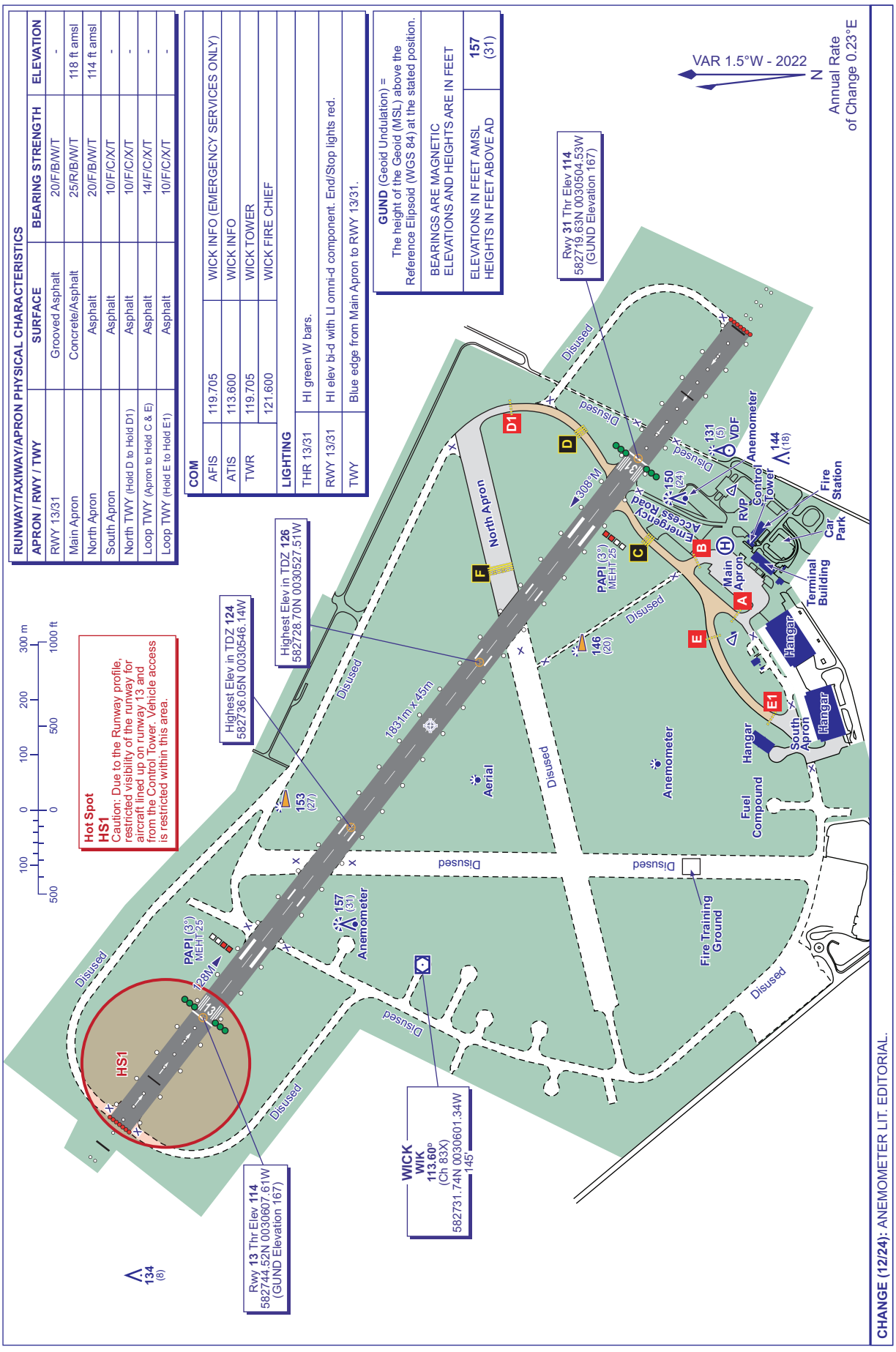
Not applicable

WICK EGPC

AERODROME CHART - ICAO

ARP 582732N 0030535W

AD ELEV 126FT



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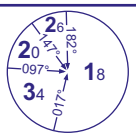
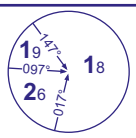
INSTRUMENT APPROACH CHART - ICAO

WICK
RNP
RWY 13
(ACFT CAT A,B,C)



MSA 25NM NDB(L) WCK

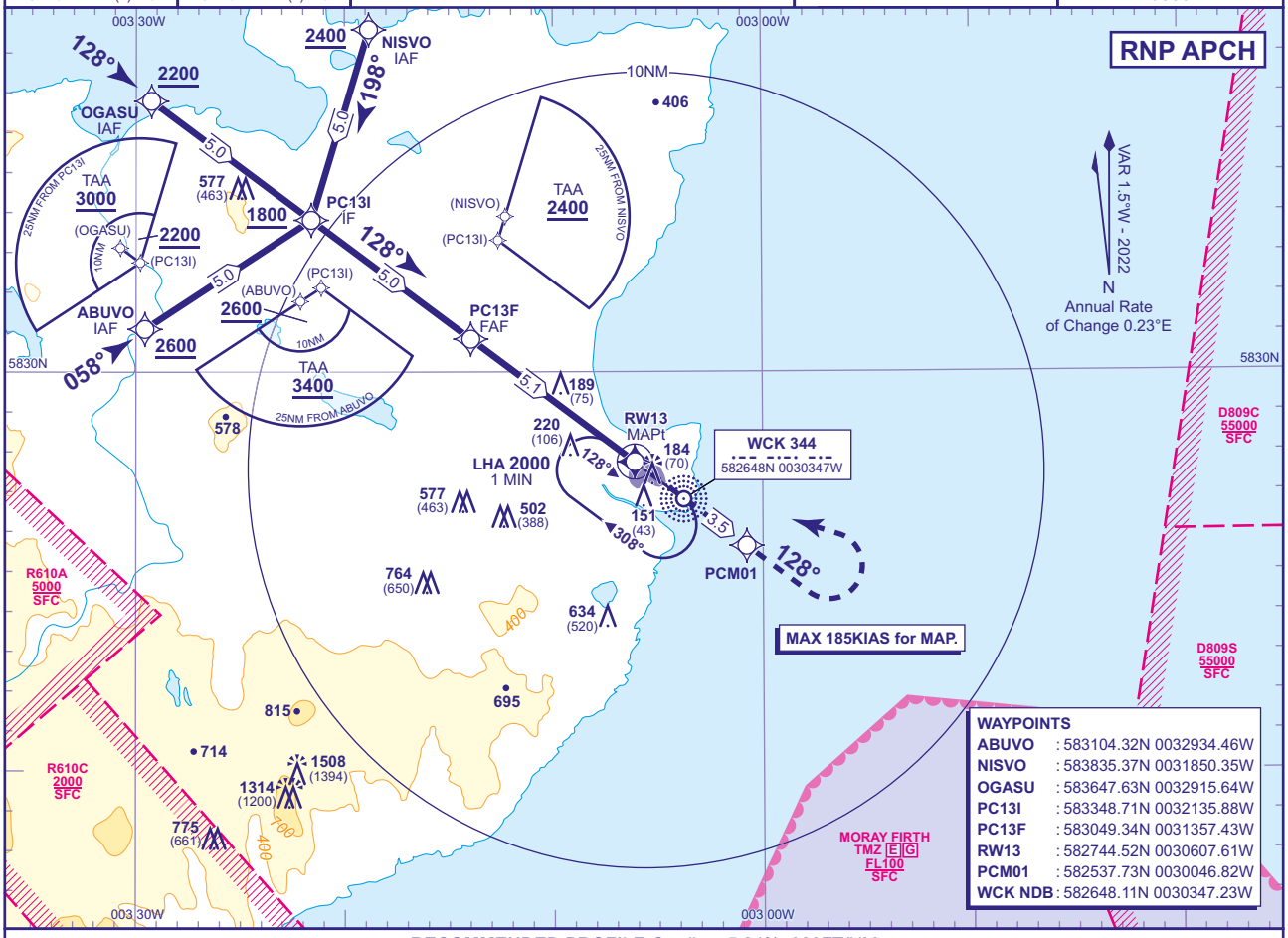


MSA 10NM NDB(L) WCK

APP	119.705	WICK APPROACH	
TWR	119.705	WICK TOWER	
ATIS	113.600	WICK INFORMATION	

AD ELEVATION	**126**
THR ELEVATION	**114**
OBSTACLE ELEVATION **1508 AMSL** (1394) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



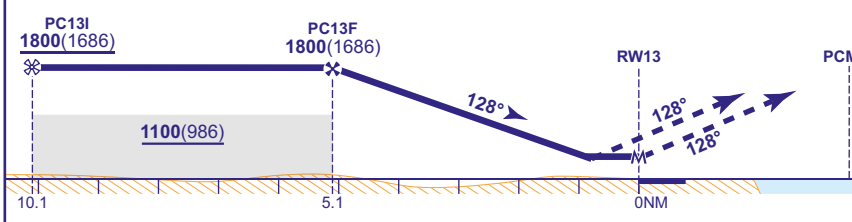
WAYPOINTS

ABUVO	: 583104.32N 0032934.46W
NISVO	: 583835.37N 0031850.35W
OGASU	: 583647.63N 0032915.64W
PC13I	: 583348.71N 0032135.88W
PC13F	: 583049.34N 0031357.43W
RW13	: 582744.52N 0030607.61W
PCM01	: 582537.73N 0030046.82W
WCK NDB	: 582648.11N 0030347.23W

RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

NM to RW13	5	4	3	2	1
ALT(HGT)	**1760**(1646)	**1440**(1326)	**1120**(1006)	**800**(686)	**480**(366)

TCH 50



MAPt (LNAV): RW13
Continuous climb to **2000**, initially climb straight ahead to **PCM01**, and at **2000** turn left (MAX 185KIAS) to **NDB WCK**, to join the hold or as directed.

Aircraft Category		A	B	C
OCA (OCH)	LNAV	**480**(366)	**480**(366)	**480**(366)
VM(C)OCA (OCH AAL)	Total Area	**630**(504)	**630**(504)	**1090**(964)
	North of RWY 13/31	**530**(404)	**620**(494)	**720**(594)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	430

NOTES 1 Use of RNP procedure is strictly PPR from the aerodrome operator.
2 Missed approach reverts to conventional navigation at **PCM01**.

CHANGE (8/23): MSA UPDATED.

AERO INFO DATE 10 MAY 23

AD 2-EGPC-8-1

I

INSTRUMENT APPROACH CHART - ICAO

WICK VOR/DME RWY 13
(ACFT CAT A,B,C,D)



MSA 25NM VOR WIK

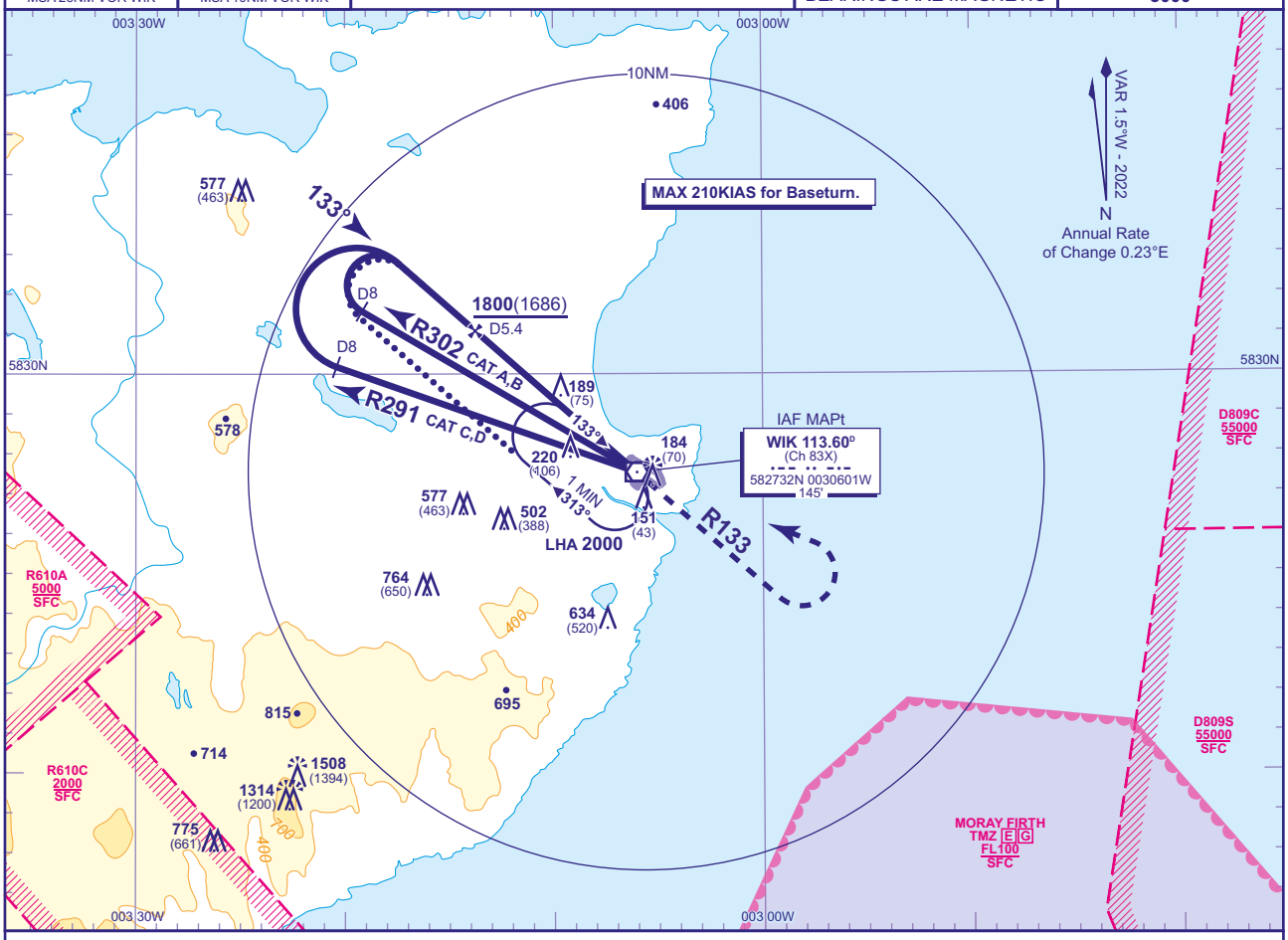


MSA 10NM VOR WIK

APP	119.705	WICK APPROACH	
TWR	119.705	WICK TOWER	
ATIS	113.600	WICK INFORMATION	

AD ELEVATION	**126**
THR ELEVATION	**114**
OBSTACLE ELEVATION **1508 AMSL** (1394) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

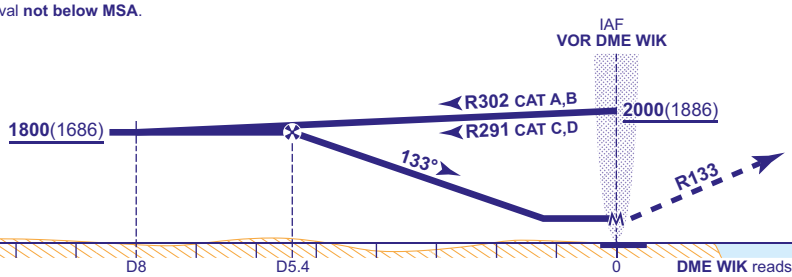
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME WIK	5	4	3	2
ALT(HGT)	**1670**(1556)	**1360**(1246)	**1040**(926)	**730**(616)

Arrival **not below MSA**.



MAPt VOR WIK
Climb straight ahead on **WIK VOR** R133 to **2000** then turn left to **VOR WIK**, enter the hold at **2000**, or as directed.

Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**480**(366)	**480**(366)	**480**(366)	**480**(366)
	NO DME	**1060**(946)	**1060**(946)	**1060**(946)	**1060**(946)
VM(C)OCA (OCH AAL)	**Total Area**	**630**(504)	**630**(504)	**1090**(964)	**1090**(964)
	North of RWY 13/31	**530**(404)	**620**(494)	**720**(594)	**820**(694)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	740	630	530	420

ALTERNATIVE PROCEDURE
Enter right hand racetrack procedure overhead WIK VOR (IAF) from the hold or from MSA then turn right onto 313° outbound for 3 MIN or at WIK DME 8 whichever is first descending to **not below 1800**(1686). Turn right inbound to intercept the WIK R313. Once established on the FAT continue as for the basic procedure.

AIRCRAFT UNABLE TO RECEIVE DME WIK
Basic procedure fly outbound for 2.5 MIN (CAT A,B); 2MIN (CAT C,D), racetrack fly outbound for 3 MIN then continue as for basic procedure.

NOTES 1 FAT offset 5° north of the extended RWY C/L.
2 Lowest altitude to commence procedure from hold is **2000**.

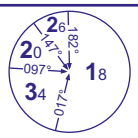
CHANGE (8/23): MSA UPDATED. WIK VOR RECALIBRATION.

AERO INFO DATE 24 MAY 23

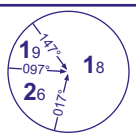
AD 2-EGPC-8-2

INSTRUMENT APPROACH CHART - ICAO

WICK
NDB(L)/DME
RWY 13
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) WCK

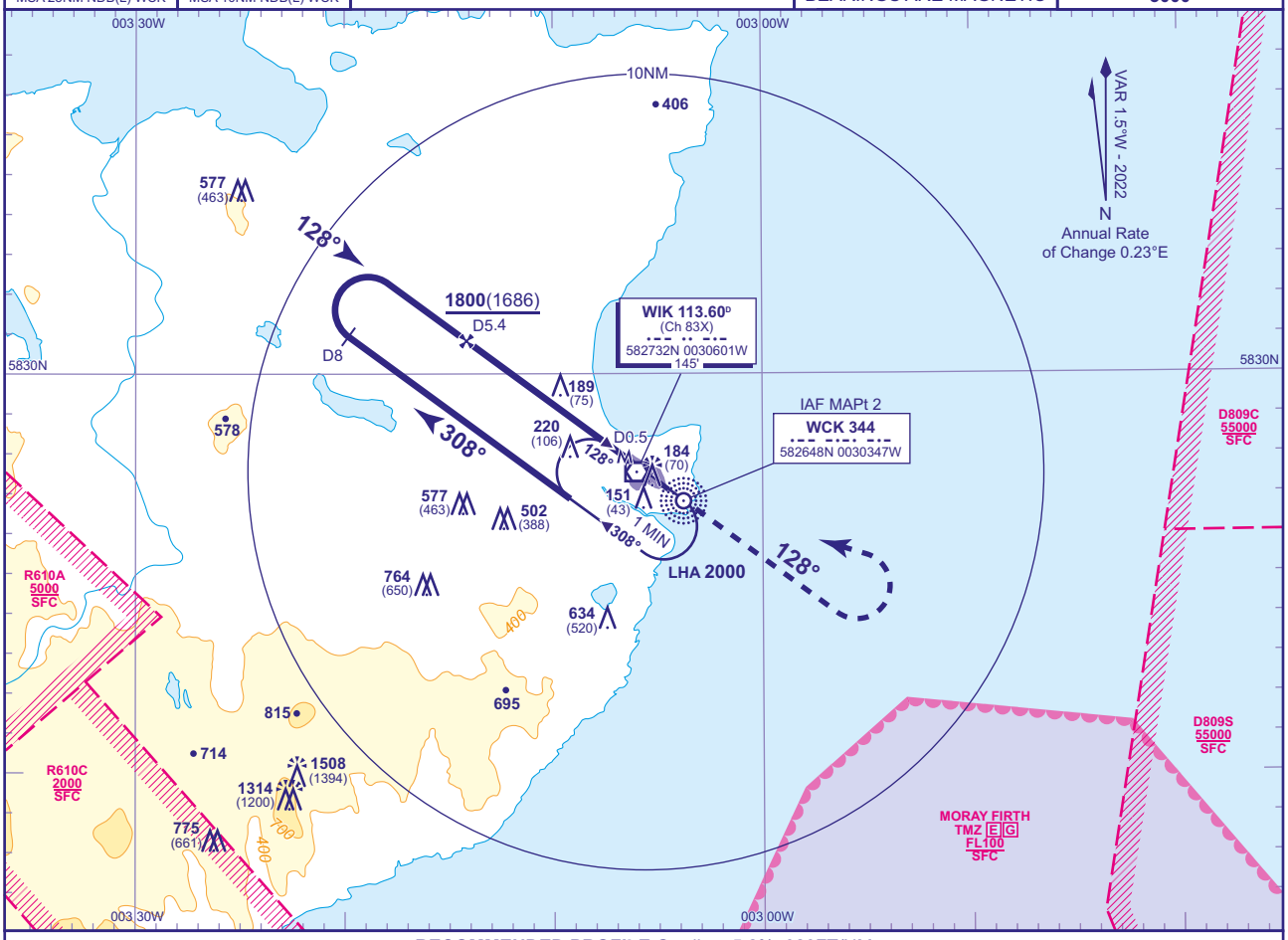


MSA 10NM NDB(L) WCK

APP	119.705	WICK APPROACH
TWR	119.705	WICK TOWER
ATIS	113.600	WICK INFORMATION

AD ELEVATION	**126**
THR ELEVATION	**114**
OBSTACLE ELEVATION	**1508 AMSL** (1394) (ABOVE THR)
BEARINGS ARE MAGNETIC	

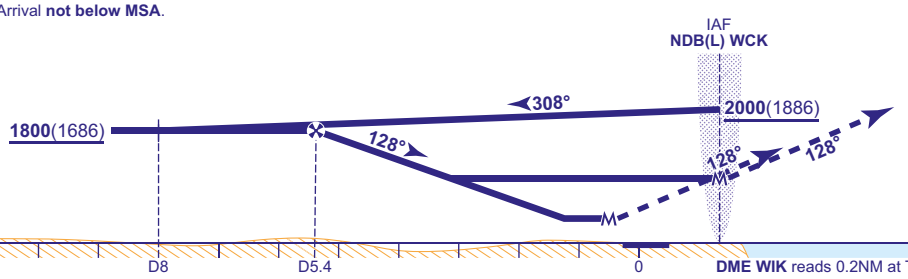
TRANSITION ALTITUDE **3000**



RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME WIK	5	4	3	2
ALT(HGT)	**1670**(1556)	**1360**(1246)	**1040**(926)	**730**(616)

Arrival **not below MSA**.



MAPt 1 WITH DME WIK DME 0.5

MAPt 2 NO DME NDB(L) WCK

Climb straight ahead to **2000** then turn left to **WCK NDB(L)** enter the hold at **2000** or as directed.

DME WIK reads 0.2NM at THR RWY 13

Aircraft Category		**A**	**B**	**C**	**D**
OCA (OCH)	**WITH DME**	**480**(366)	**480**(366)	**480**(366)	**480**(366)
	NO DME	**1100**(986)	**1100**(986)	**1100**(986)	**1100**(986)
VM(C)OCA (OCH AAL)	**Total Area**	**630**(504)	**630**(504)	**1090**(964)	**1090**(964)
	North of RWY 13/31	**530**(404)	**620**(494)	**720**(594)	**820**(694)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	740	630	530	420

AIRCRAFT UNABLE TO RECEIVE DME WIK
As for basic procedure except fly outbound for 3 MIN descending to **1800**(1686) then turn right inbound when established on FAT descend to NO DME MDA(H).

NOTE Lowest altitude to commence procedure from hold is **2000**.

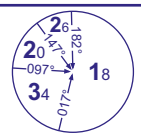
CHANGE (8/23): MSA UPDATED.

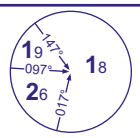
AERO INFO DATE 10 MAY 23

AD 2-EGPC-8-3

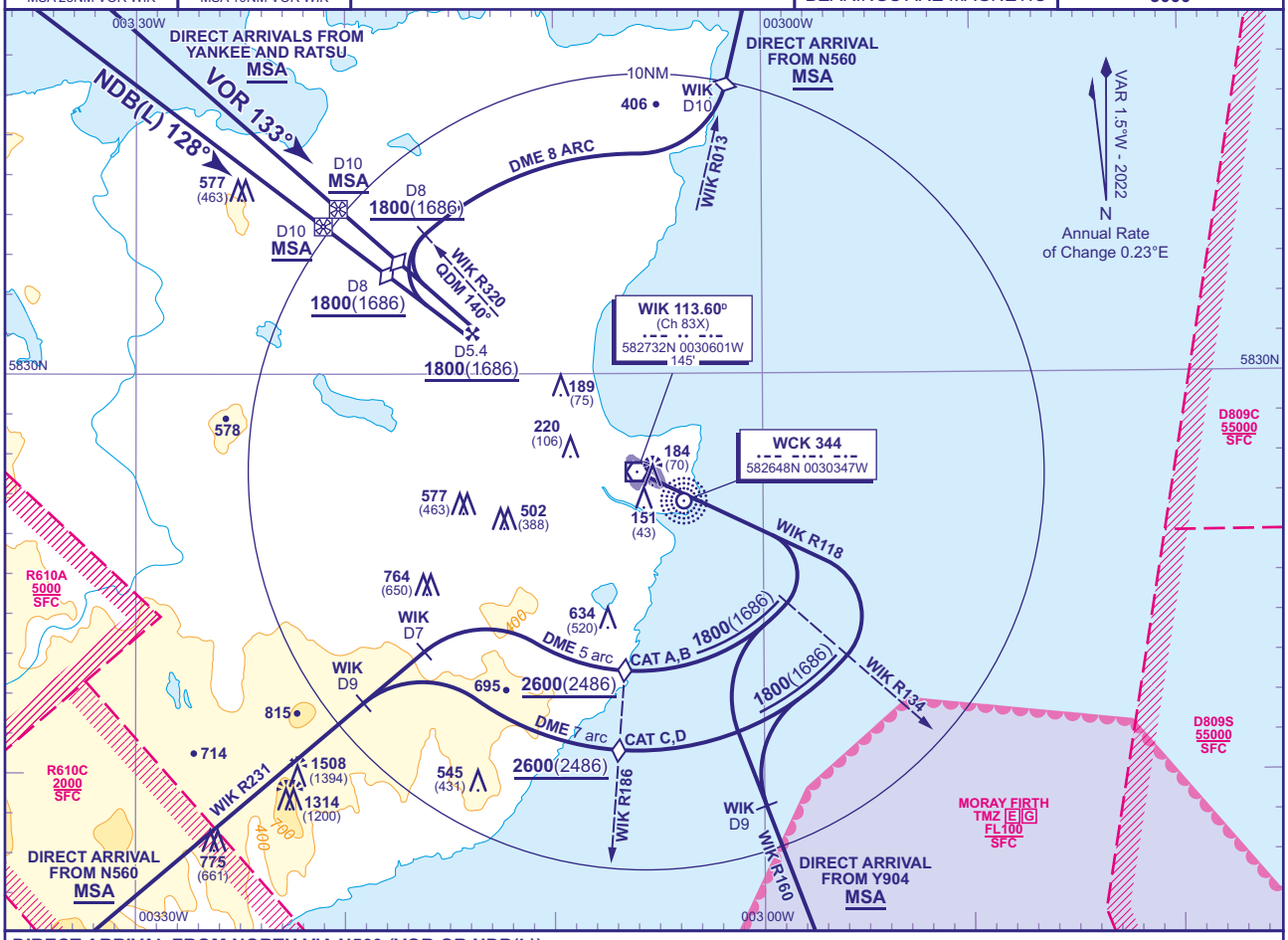
INSTRUMENT APPROACH CHART - ICAO

WICK
Direct arrivals to VOR/NDB(L) RWY 13
(ACFT CAT A,B,C,D)





APP	119.705	WICK APPROACH	AD ELEVATION	126	
TWR	119.705	WICK TOWER	THR ELEVATION	114	
ATIS	113.600	WICK INFORMATION	OBSTACLE ELEVATION **1508 AMSL** (1394) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		TRANSITION ALTITUDE **3000**



DIRECT ARRIVAL FROM NORTH VIA N560 (VOR OR NDB(L))
VOR WIK : At MSA or above, at 10 DME WIK turn right to intercept the 8 DME arc WIK (anticlockwise) descending to **not below 1800**(1686). At lead radial R320 WIK turn left to intercept the R313 (133°M) inbound WIK VOR, once established on the FAT continue as for the Basic Procedure.
NDB(L) WCK : At MSA or above, at 10 DME WIK turn right to intercept the 8 DME arc WIK (anticlockwise) descending to **not below 1800**(1686). At lead QDM 140° NDB(L) WCK turn left to intercept the QDM 128° inbound NDB(L) WCK, once established on the FAT continue as for the Basic Procedure.

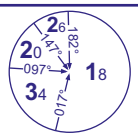
DIRECT ARRIVAL FROM SOUTH VIA N560 or Y904 (VOR only)
AT MSA or above, at 7 DME WIK turn right to intercept the 5 DME arc WIK (CAT A,B), or at 9 DME WIK turn right to intercept the 7 DME arc (CAT C,D). Once established on the 5 or 7 DME arc :
From N560 : Descend **not below 2600**(2486), when crossing R186 WIK descend **not below 1800**(1686).
From Y904 : descend **not below 1800**(1686).
At lead radial R134 WIK turn left to intercept the R118 inbound to WIK VOR, **not below 1800**(1686). Continue to overhead WIK VOR then follow Basic Procedure.

DIRECT ARRIVAL FROM NORTHWEST VIA ROUTE YANKEE AND RATSU (VOR OR NDB(L))
VOR WIK : Intercept the R313 WIK VOR inbound, not below MSA. At R313/10 DME WIK VOR (IAF) descend **not below 1800**(1686) then continue as for Basic Procedure.
NDB(L) WCK : Intercept the QDM 128° WCK inbound, not below MSA. At IAF 128°M/10 DME (IAF) descend **not below 1800**(1686) then continue as for Basic Procedure.

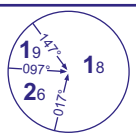
CHANGE (8/23): MSA UPDATED. WIK VOR RECALIBRATION.

INSTRUCTION APPROACH CHART - ICAO

WICK RNP RWY 31
(ACFT CAT A,B,C)



MSA 25NM NDB(L) WCK

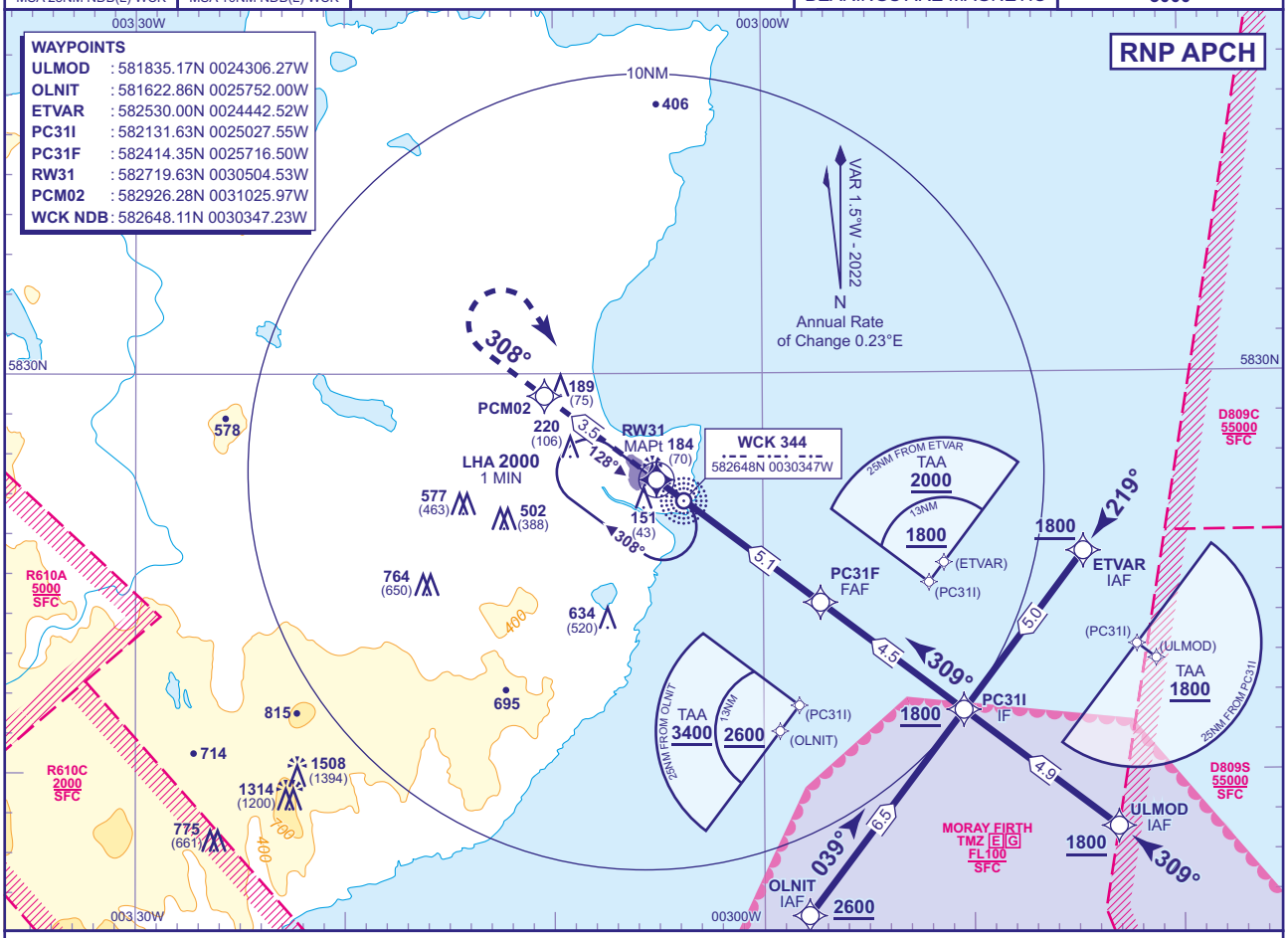


MSA 10NM NDB(L) WCK

APP	119.705	WICK APPROACH	
TWR	119.705	WICK TOWER	
ATIS	113.600	WICK INFORMATION	

AD ELEVATION	126
THR ELEVATION	114
OBSTACLE ELEVATION 1508 AMSL (1394) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE
3000

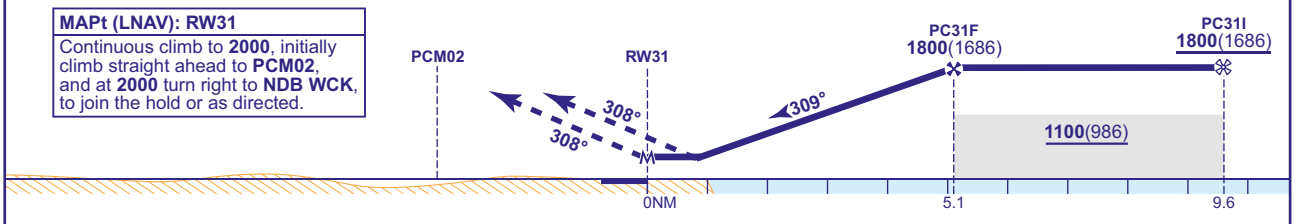


RECOMMENDED PROFILE Gradient 5.24%, 320FT/NM

NM to RW31	5	4	3	2	1
ALT(HGT)	**1760**(1646)	**1440**(1326)	**1120**(1006)	**800**(686)	**480**(366)

TCH 50

MAPt (LNAV): RW31
Continuous climb to **2000**, initially climb straight ahead to **PCM02**, and at **2000** turn right to **NDB WCK**, to join the hold or as directed.



Aircraft Category		A	B	C
OCA (OCH)	LNAV	**440**(326)	**440**(326)	**440**(326)
VM(C)OCA (OCH AAL)	Total Area	**630**(504)	**630**(504)	**1090**(964)
	North of RWY 13/31	**530**(404)	**620**(494)	**720**(594)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	430

NOTES
1 Use of RNP procedure is strictly PPR from the aerodrome operator.
2 Approaches via ULMOD not permitted when D809(S) is notified as active.
3 Missed approach reverts to conventional navigation at **PCM02**.

CHANGE (8/23): MSA UPDATED.

AERO INFO DATE 10 MAY 23

INSTRUMENT APPROACH CHART - ICAO

WICK VOR/DME RWY 31
(ACFT CAT A,B,C,D)



MSA 25NM VOR WIK

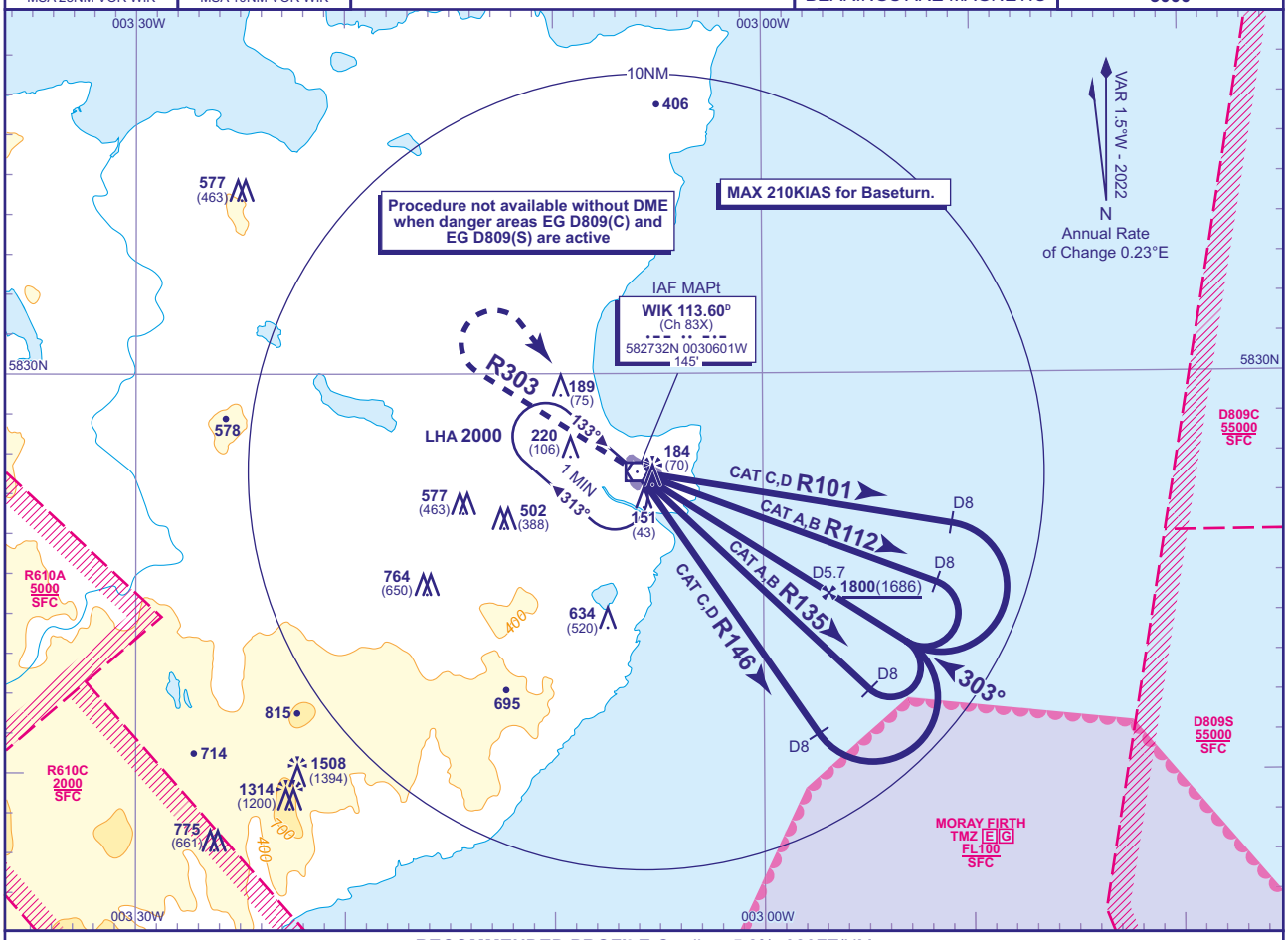


MSA 10NM VOR WIK

APP	119.705	WICK APPROACH	
TWR	119.705	WICK TOWER	
ATIS	113.600	WICK INFORMATION	

AD ELEVATION	**126**
THR ELEVATION	**114**
OBSTACLE ELEVATION **1508 AMSL** (1394) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

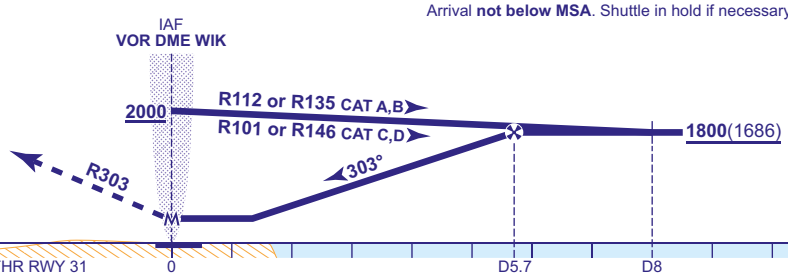


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME WIK	5	4	3	2
ALT(HGT)	**1580**(1466)	**1260**(1146)	**950**(836)	**630**(516)

Arrival **not below MSA**. Shuttle in hold if necessary.

MAPt VOR WIK
Climb straight ahead on **WIK VOR** R303 to **2000** then turn right to **VOR WIK** to enter the hold at **2000**, or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**450**(336)	**460**(346)	**480**(366)	**500**(386)
	NO DME	**490**(376)	**490**(376)	**490**(376)	**500**(386)
VM(C)OCA (OCH AAL)	**Total Area**	**630**(504)	**630**(504)	**1090**(964)	**1090**(964)
	North of RWY 13/31	**530**(404)	**620**(494)	**720**(594)	**820**(694)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	740	630	530	420

AIRCRAFT UNABLE TO RECEIVE DME WIK (Only available when EG D809(S) and EG D809(C) are inactive)
As for basic procedure fly outbound for 2.5 MIN (CAT A,B); 2MIN (CAT C,D), then continue as for basic procedure descend to NO DME MDA(H).

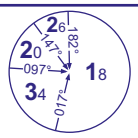
NOTES **1** FAT offset 4° north of the extended RWY C/L.
2 Lowest altitude to commence procedure from hold is **2000**.

CHANGE (8/23): MSA UPDATED. WIK VOR RECALIBRATED.

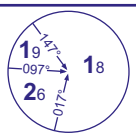
AERO INFO DATE 24 MAY 23 AD2-EGPC-8-6

INSTRUMENT APPROACH CHART - ICAO

WICK
Direct arrivals to VOR/DME RWY 31
(ACFT CAT A,B,C,D)



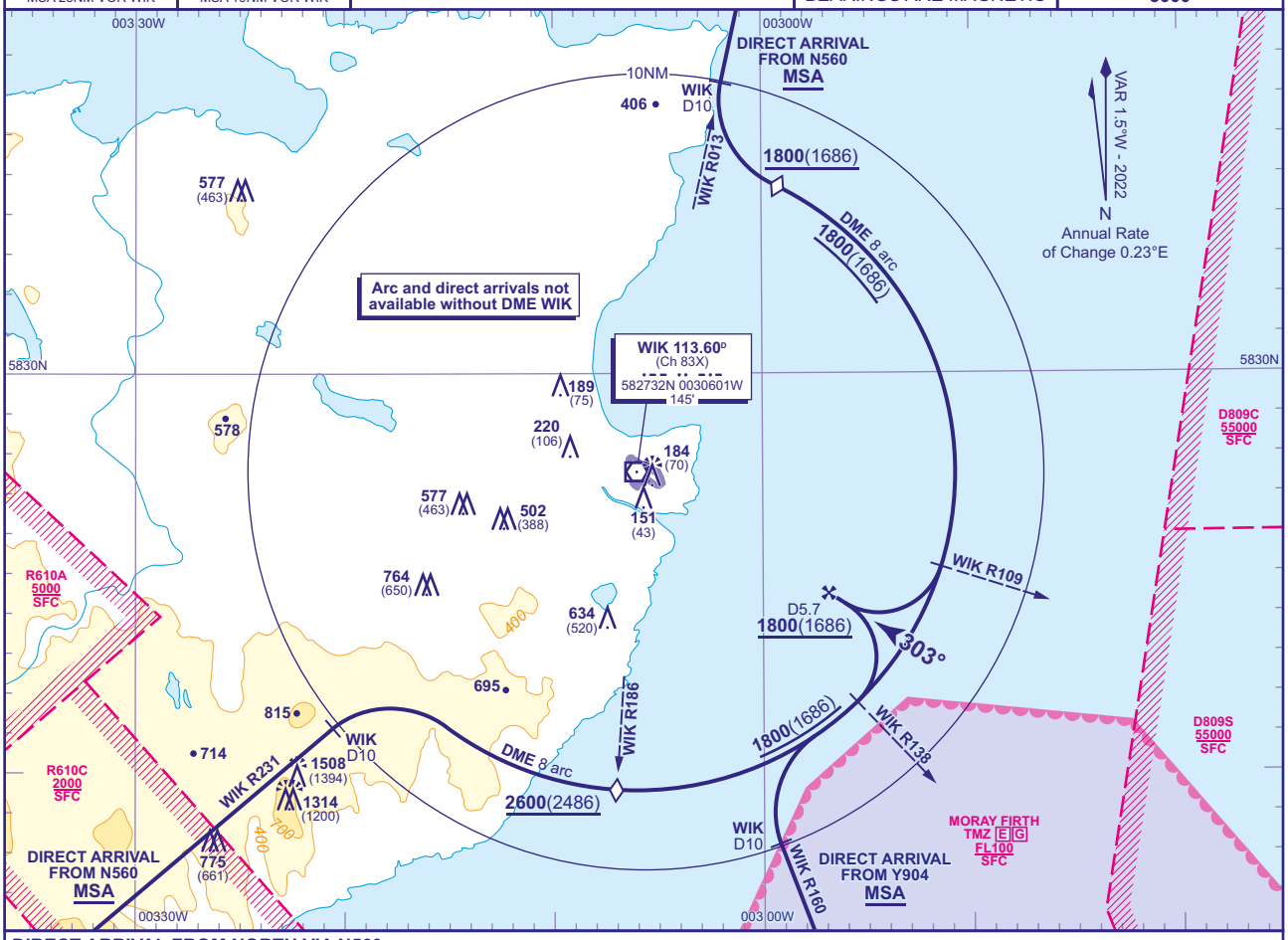
MSA 25NM VOR WIK



MSA 10NM VOR WIK

APP	119.705	WICK APPROACH	AD ELEVATION	126
TWR	119.705	WICK TOWER	THR ELEVATION	114
ATIS	113.600	WICK INFORMATION	OBSTACLE ELEVATION 1508 AMSL (1394) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 3000



DIRECT ARRIVAL FROM NORTH VIA N560
At MSA or above, at WIK DME 10 turn left to intercept the 8 DME arc WIK clockwise. Once established on the 8 DME arc descend to **not below 1800**(1686). At lead R109 turn right to intercept R123 WIK VOR inbound and continue as for Basic Procedure.

DIRECT ARRIVAL FROM SOUTH VIA N560 or Y904
At MSA or above, at 10 DME WIK turn right to intercept the 8 DME arc WIK. Once established on the 8 DME arc :
From N560 : Descend **not below 2600**(2486), when crossing R186 WIK descend **not below 1800**(1686).
From Y904 : Descend **not below 1800**(1686). At lead R138 WIK turn left to intercept R123 WIK VOR inbound and continue as for Basic Procedure.

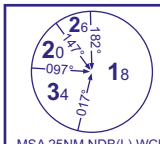
CHANGE (8/23): MSA UPDATED. WIK VOR RECALIBRATED.

AERO INFO DATE 24 MAY 23

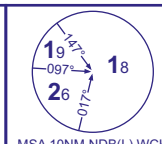
AD 2-EGPC-8-7

INSTRUMENT APPROACH CHART - ICAO

WICK
NDB(L)/DME
RWY 31
(ACFT CAT A,B,C,D)



MSA 25NM NDB(L) WCK

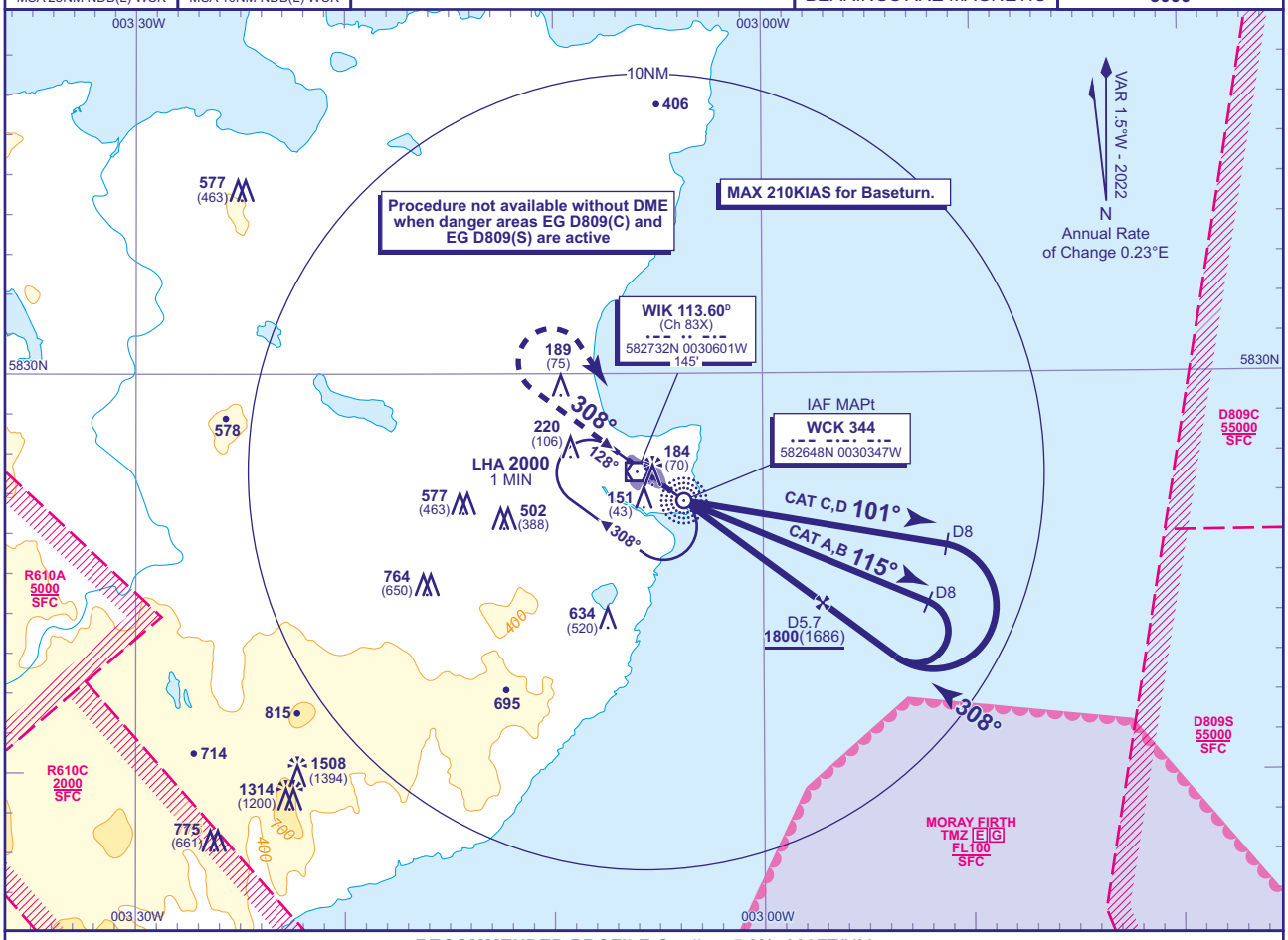


MSA 10NM NDB(L) WCK

APP	119.705	WICK APPROACH	
TWR	119.705	WICK TOWER	
ATIS	113.600	WICK INFORMATION	

AD ELEVATION	**126**
THR ELEVATION	**114**
OBSTACLE ELEVATION **1508 AMSL** (1394) (ABOVE THR)	
BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**

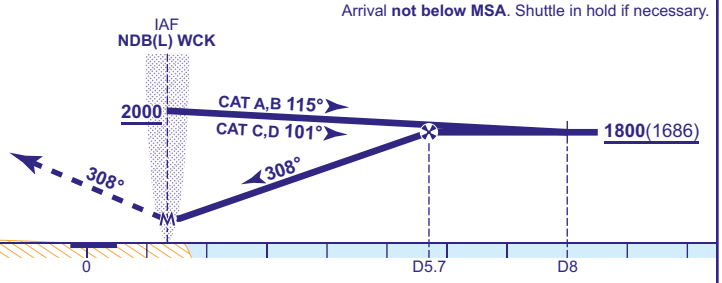


RECOMMENDED PROFILE Gradient 5.2%, 320FT/NM

DME WIK	5	4	3	2
ALT(HGT)	**1580**(1466)	**1260**(1146)	**950**(836)	**630**(516)

Arrival **not below MSA**. Shuttle in hold if necessary.

MAPt NDB(L) WCK
Climb straight ahead to **2000** then turn right to **NDB(L) WCK** enter the hold at **2000**, or as directed.



Aircraft Category		A	B	C	D
OCA (OCH)	**WITH DME**	**440**(326)	**440**(326)	**440**(326)	**440**(326)
	NO DME	**490**(376)	**490**(376)	**490**(376)	**490**(376)
VM(C)OCA (OCH AAL)	**Total Area**	**630**(504)	**630**(504)	**1090**(964)	**1090**(964)
	North of RWY 13/31	**530**(404)	**620**(494)	**720**(594)	**820**(694)

Rate of descent	**G/S KT**	160	140	120	100	80
	FT/MIN	840	740	630	530	420

AIRCRAFT UNABLE TO RECEIVE DME WIK (Only available when EG D809(S) and EG D809(C) are inactive)
As for basic procedure fly outbound for 2.5 MIN (CAT A,B); 2MIN (CAT C,D), prior to inbound turn. When established descend to NO DME MDA(H).

NOTE 1 Lowest altitude to commence procedure from hold is **2000**.

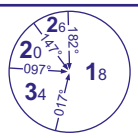
CHANGE (8/23): MSA UPDATED.

AERO INFO DATE 10 MAY 23

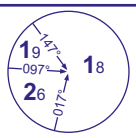
AD 2-EGPC-8-8

INSTRUMENT APPROACH CHART - ICAO

WICK
Direct arrivals to NDB(L)/DME RWY 31
(ACFT CAT A,B,C,D)



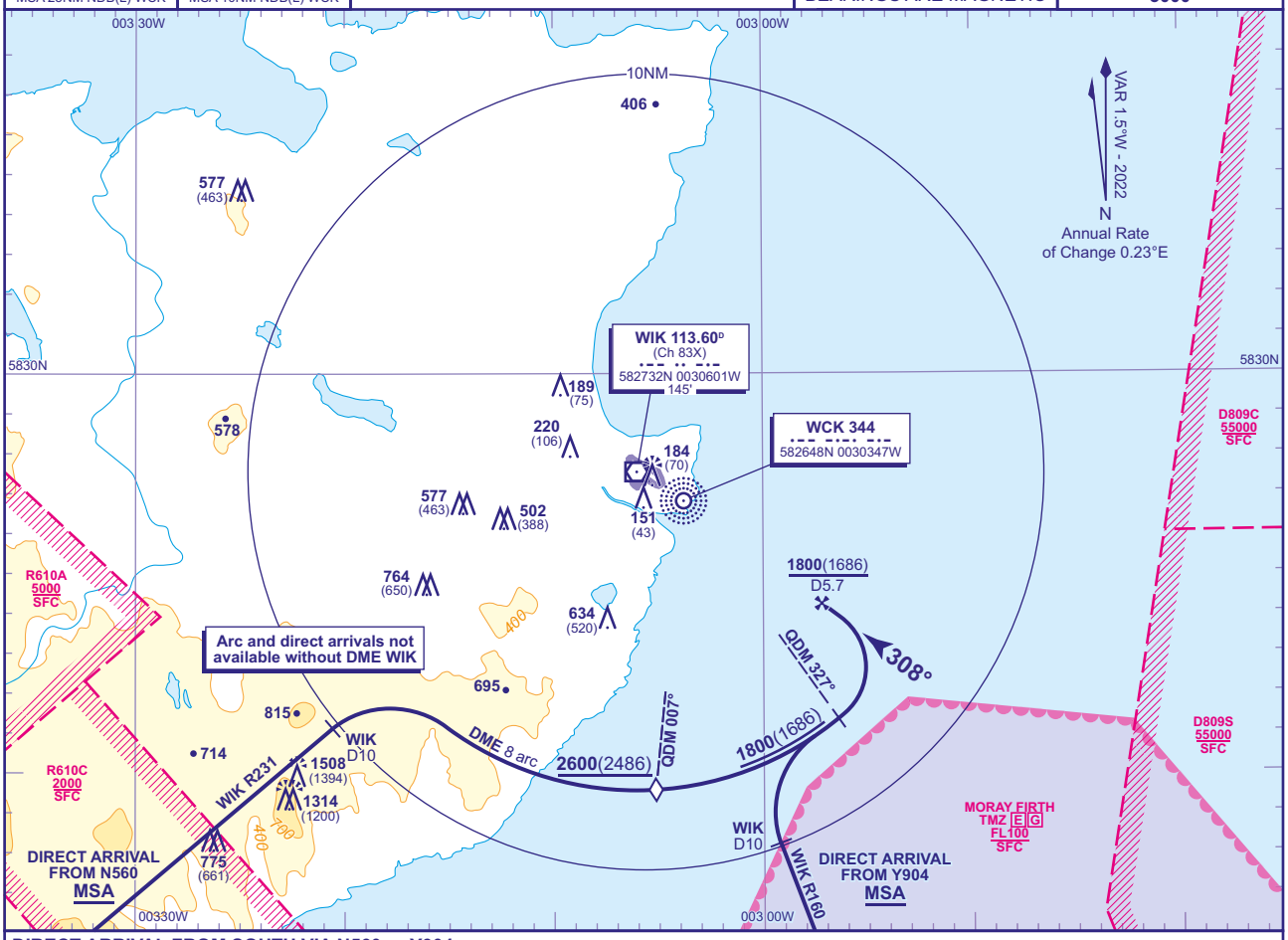
MSA 25NM NDB(L) WCK



MSA 10NM NDB(L) WCK

APP	119.705	WICK APPROACH	AD ELEVATION	126
TWR	119.705	WICK TOWER	THR ELEVATION	114
ATIS	113.600	WICK INFORMATION	OBSTACLE ELEVATION **1508 AMSL** (1394) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE **3000**



DIRECT ARRIVAL FROM SOUTH VIA N560 or Y904
At **MSA or above**, at 10 DME WIK turn right to intercept the 8 DME arc WIK. Once established on the 8 DME arc :
From N560 : Descend to **not below 2600**(2486), when crossing NDB(L) WCK QDM 007° descend **not below 1800**(1686).
From Y904 : Descend **not below 1800**(1686).
At lead NDB(L) WCK QDM 327° turn left to intercept the NDB(L) WCK QDM 308° inbound and continue as for Basic Procedure.

CHANGE (8/23): MSA UPDATED.

AERO INFO DATE 10 MAY 23

AD 2-EGPC-8-9

Instrument Approach Procedure Coding Tables

Wick RNP RWY 13 - Instrument Approach Procedure via ABUVO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
RW13R	001	IF	ABUVO	N	-	-	2600	-	583104.32N 0032934.46W	IAF
RW13R	002	TF	PC13I	N	058° (056.64°)	RIGHT	1800	-	583348.71N 0032135.88W	IF / 10.1NM
RW13R	003	TF	PC13F	N	128° (126.75°)	-	1800	-	583049.34N 0031357.43W	FAF / 5.1NM
RW13R	004	TF	RW13	Y	128° (126.86°)	-	-	-	582744.52N 0030607.61W	MAPt
RW13R	005	TF	PCM01	N	128° (126.97°)	-	-	185	582537.73N 0030046.82W	At PCM01 revert to conventional navigation

Wick RNP RWY 13 - Instrument Approach Procedure via OGASU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
RW13C	001	IF	OGASU	N	-	-	2200	-	583647.63N 0032915.64W	IAF
RW13C	002	TF	PC13I	N	128° (126.64°)	-	1800	-	583348.71N 0032135.88W	IF / 10.1NM
RW13C	003	TF	PC13F	N	128° (126.75°)	-	1800	-	583049.34N 0031357.43W	FAF / 5.1NM
RW13C	004	TF	RW13	Y	128° (126.86°)	-	-	-	582744.52N 0030607.61W	MAPt
RW13C	005	TF	PCM01	N	128° (126.97°)	-	-	185	582537.73N 0030046.82W	At PCM01 revert to conventional navigation

Wick RNP RWY 13 - Instrument Approach Procedure via NISVO

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
RW13L	001	IF	NISVO	N	-	-	2400	-	583835.37N 0031850.35W	IAF
RW13L	002	TF	PC13I	N	198° (196.79°)	LEFT	1800	-	583348.71N 0032135.88W	IF / 10.1NM
RW13L	003	TF	PC13F	N	128° (126.75°)	-	1800	-	583049.34N 0031357.43W	FAF / 5.1NM
RW13L	004	TF	RW13	Y	128° (126.86°)	-	-	-	582744.52N 0030607.61W	MAPt
RW13L	005	TF	PCM01	N	128° (126.97°)	-	-	185	582537.73N 0030046.82W	At PCM01 revert to conventional navigation

CHANGE (14/20): MAG VAR. MAG TRACKS.

Instrument Approach Procedure Coding Tables

Wick RNP RWY 31 - Instrument Approach Procedure via ETVAR

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
RW31R	001	IF	ETVAR	N	-	-	1800	-	582530.00N 0024442.52W	IAF
RW31R	002	TF	PC31I	N	219° (217.28°)	RIGHT	1800	-	582131.63N 0025027.55W	IF / 9.6NM
RW31R	003	TF	PC31F	N	309° (307.19°)	-	1800	-	582414.35N 0025716.50W	FAF / 5.1NM
RW31R	004	TF	RW31	Y	309° (307.10°)	-	-	-	582719.63N 0030504.53W	MAPt
RW31R	005	TF	PCM02	N	308° (306.99°)	-	-	-	582926.28N 0031025.97W	At PCM02 revert to conventional navigation

Wick RNP RWY 31 - Instrument Approach Procedure via ULMOD

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
RW31C	001	IF	ULMOD	N	-	-	1800	-	581835.17N 0024306.27W	IAF
RW31C	002	TF	PC31I	N	309° (307.30°)	-	1800	-	582131.63N 0025027.55W	IF / 9.6NM
RW31C	003	TF	PC31F	N	309° (307.19°)	-	1800	-	582414.35N 0025716.50W	FAF / 5.1NM
RW31C	004	TF	RW31	Y	309° (307.10°)	-	-	-	582719.63N 0030504.53W	MAPt
RW31C	005	TF	PCM02	N	308° (306.99°)	-	-	-	582926.28N 0031025.97W	At PCM02 revert to conventional navigation

Wick RNP RWY 31 - Instrument Approach Procedure via OLNIT

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
RW31L	001	IF	OLNIT	N	-	-	2600	-	581622.86N 0025752.00W	IAF
RW31L	002	TF	PC31I	N	039° (037.09°)	LEFT	1800	-	582131.63N 0025027.55W	IF / 9.6NM
RW31L	003	TF	PC31F	N	309° (307.19°)	-	1800	-	582414.35N 0025716.50W	FAF / 5.1NM
RW31L	004	TF	RW31	Y	309° (307.10°)	-	-	-	582719.63N 0030504.53W	MAPt
RW31L	005	TF	PCM02	N	308° (306.99°)	-	-	-	582926.28N 0031025.97W	At PCM02 revert to conventional navigation

CHANGE (12/21): PAGE RENUMBERED.

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EGNW — WICKENBY

EGNW AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGNW — WICKENBY

EGNW AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 531901N Long: 0002056W Mid point of Runway 03/21
2	Direction and distance from city	8 NM NE of Lincoln.
3	Elevation / Reference temperature / Mean Low Temperature	84 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	-
5	Magnetic Variation / Annual Change	0.28°E (2022) / 0.20°E
6	AD Administration Address Telephone E-mail address	WICKENBY AERODROME LLP. The Old Control Tower, Wickenby Airfield, Langworth, Lincolnshire, LN3 5AX. 01673-885000 07377-601802 (Aerodrome Mobile) info@wickenbyairfield.com
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGNW AD 2.3 OPERATIONAL HOURS

1	AD Administration	Wed-Sun 1000-1600 (0900-1500); and by arrangement.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. PPR required for non-radio aircraft and non-based movements outside ATS hours.
8	Fuelling	As AD hours and Monday and Tuesday by arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR for all movements. Aerodrome available for aircraft requiring a licensed aerodrome by arrangement only.

EGNW AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVGAS 100LL.
3	Fuelling facilities/capacity	Self Service Fuel Facility. Payment can be made by credit/debit card.
4	De-icing facilities	
5	Hangar space for visiting aircraft	By prior arrangement.
6	Repair facilities for visiting aircraft	One Sky Aviators: 07955-480488.
7	Remarks	

EGNW AD 2.5 PASSENGER FACILITIES

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EGNW AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category Special.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	RFFS provision available only by prior arrangement.

EGNW AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGNW AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Concrete and asphalt
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGNW AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	Aircraft transitioning from the runways to the grass parking area or to the fuel point are to follow the taxiway centrelines marked by a solid yellow line.

EGNW AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
33/APPROACH 15/TAKE-OFF	Vehicles on Road	531850.21N 0002049.41W	101 FT		No	
03/APPROACH 21/TAKE-OFF	Vehicles on Road	531849.17N 0002104.98W	100 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
	High Ground	532001N 0001406W	197 FT		No	

EGNW AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGNW AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
03	025.25°	530 x 18 M	RWY surface: Asphalt	531853.24N 0002101.76W 153.0 FT	THR 83.0 FT	
21	205.25°	530 x 18 M	RWY surface: Asphalt	531908.69N 0002049.59W 153.0 FT	THR 75.0 FT	
15	150.23°	497 x 18 M	RWY surface: Asphalt	531909.07N 0002107.44W 153.0 FT	THR 71.0 FT	
33	330.23°	497 x 18 M	RWY surface: Asphalt	531855.19N 0002054.18W 153.0 FT	THR 79.0 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 03
						RWY 21
						RWY 15
						RWY 33

EGNW AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	530 M	530 M	530 M	530 M	
21	530 M	530 M	530 M	530 M	
15	497 M	497 M	497 M	497 M	
33	497 M	497 M	497 M	497 M	

EGNW AD 2.14 APPROACH AND RUNWAY LIGHTING

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EGNW AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGNW AD 2.16 HELICOPTER LANDING AREA

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EGNW AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WICKENBY ATZ A circle, 2 NM radius, centred at 531901N 0002056W on longest notified runway (03/ 21)	Upper limit: 2000 FT AGL Lower limit: SFC	G	WICKENBY RADIO English			

EGNW AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	WICKENBY RADIO	122.455 A/G Frequency			Wed-Sun 1000-1600 (0900-1500); and by arrangement.	ATZ hours coincident with A/G hours, but not by arrangement.

EGNW AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGNW AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

Not applicable

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The aerodrome is divided by a public road and only the runways to the North of the road can be used.
b) Hot Spot HS1 vehicles crossing the Runway 21 threshold.
c) The warehouses of Rase and Frontier distribution on the aerodrome are not to be flown over at anytime.
d) Aerobatics are conducted within the aerobatic box located in the South East part of the ATZ, any aerobatic training will be notified by NOTAM. When aerobatics are being conducted there will be no overhead joins and only live side joins will be permitted.
e) Departing aircraft passing 1500 FT AAL within the ATZ are requested to contact RAF Waddington ATC on 119.505.

5 HELICOPTER OPERATIONS

a) Helicopters are to land on the grass between the Hold A and Green hangars North of the taxiway.

6 USE OF RUNWAYS

a) Aircraft landing on Runway 33 are to backtrack in turn to the intersection and vacate for fuel or parking.

7 TRAINING

Not applicable

EGNW AD 2.21 NOISE ABATEMENT PROCEDURES

a) All traffic are to avoid overflying the local villages of Wickenby, Lissington and Holton-cum-beckering.
b) All traffic are to avoid overflying Blackhills farm 1.1 NM on approach to Runway 15.

EGNW AD 2.22 FLIGHT PROCEDURES

1 INBOUND AIRCRAFT

a) Inbound aircraft are requested to contact RAF Waddington on 119.505.

2 LOCAL FLYING AREA

a) Flights within the ATZ above 1500 FT AAL are subject to clearance from RAF Waddington ATC.

3 CIRCUITS

a) Normal circuit directions: All Runways - LH. Circuit height 1000 FT QFE. Microlight circuit 700 FT QFE inside GA circuit.
b) Aerobatic circuit directions: Runway 33 & Runway 03 - LH, Runway 15 & Runway 21 - RH.

EGNW AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGNW AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGNW-2-1

EGNW AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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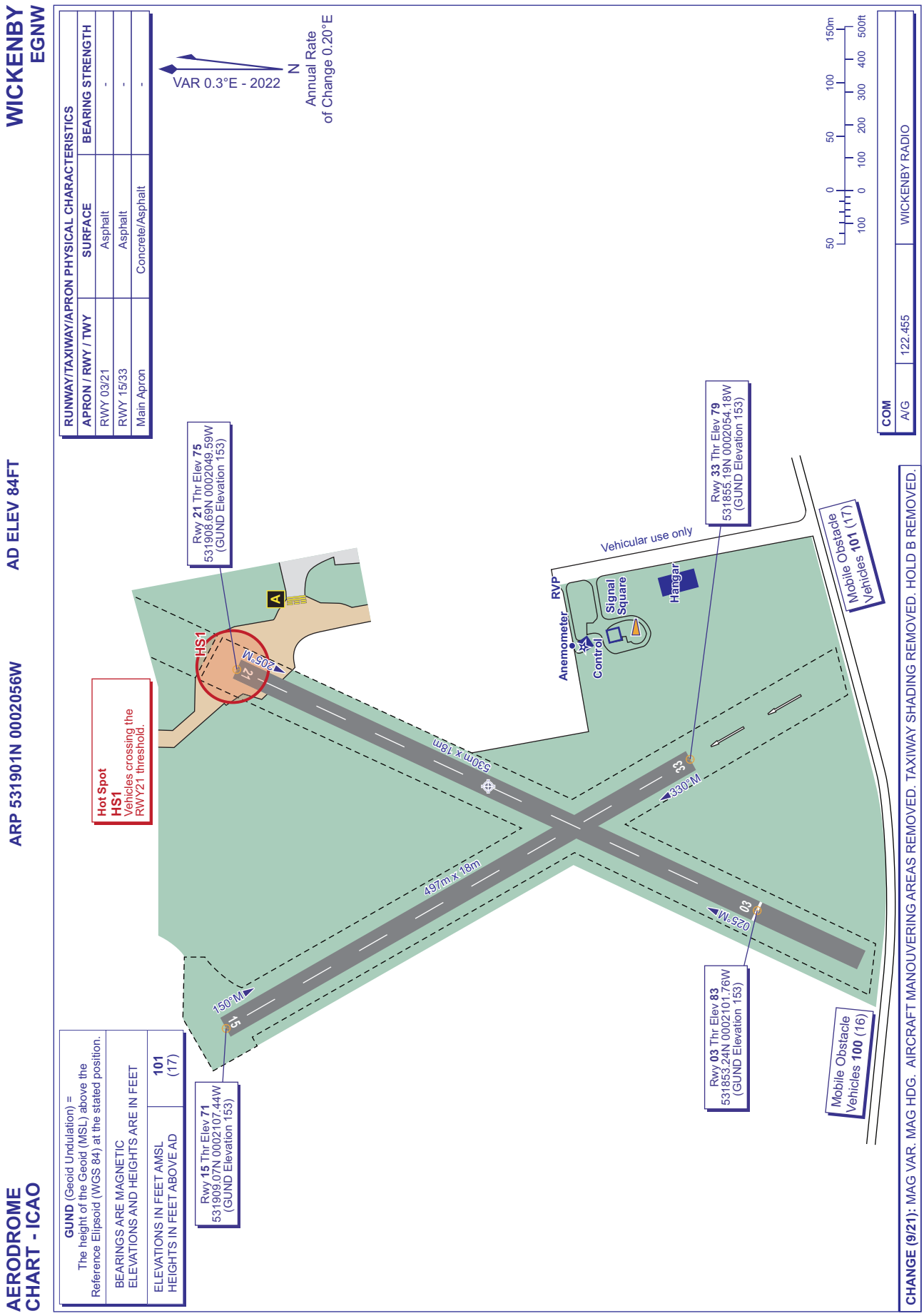
WICKENBY
EGNW
AD ELEV 84FT
ARP 531901N 0002056W
AERODROME
CHART - ICAO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
BEARING STRENGTH
RWY 03/21
Asphalt
-
RWY 15/33
Asphalt
-
Main Apron
Concrete/Asphalt
-
VAR 0.3°E - 2022
N
Annual Rate of Change 0.20°E
COM
A/G
122.455
WICKENBY RADIO
Rwy 21 Thr Elev 75
531908.69N 0002049.59W
(GUND Elevation 153)
Rwy 33 Thr Elev 79
531855.19N 0002054.18W
(GUND Elevation 153)
Rwy 15 Thr Elev 71
531909.07N 0002107.44W
(GUND Elevation 153)
Rwy 03 Thr Elev 83
531853.24N 0002101.76W
(GUND Elevation 153)
Hot Spot
HS1
Vehicles crossing the RWY21 threshold.
HS1
205°M
21
530m x 18m
497m x 18m
33
330°M
15
150°M
03
025°M
RVP
Anemometer
Control
Signal Square
Hangar
Vehicular use only
Mobile Obstacle Vehicles 101 (17)
Mobile Obstacle Vehicles 100 (16)
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
101 (17)
CHANGE (9/21): MAG VAR. MAG HDG. AIRCRAFT MANOUVERING AREAS REMOVED. TAXIWAY SHADING REMOVED. HOLD B REMOVED.

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EGBO — WOLVERHAMPTON/HALFPENNY GREEN

EGBO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGBO — WOLVERHAMPTON/HALFPENNY GREEN

EGBO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 523104N Long: 0021535W Mid point of Runway 16/34.
2	Direction and distance from city	5 NM E by S of Bridgnorth
3	Elevation / Reference temperature / Mean Low Temperature	283 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	166 FT
5	Magnetic Variation / Annual Change	0.54°E (2027) / 0.18°E
6	AD Administration Address Telephone E-mail address Web address	WOLVERHAMPTON AIRPORT LTD. Wolverhampton/Halfpenny Green Airport, Stourbridge, West Midlands, DY7 5DY. 01384-221350 (Airport Office) 01384-221378 (ATC) office@wolverhamptonairport.co.uk (Airport Office) atc@wolverhamptonairport.co.uk (ATC) www.wolverhamptonairport.co.uk
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	PPR also available online: https://www.wolverhamptonairport.co.uk/online-ppr. Landing fees can also be paid online: https://www.wolverhamptonairport.co.uk.

EGBO AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1700 (0800-1700). During winter hours night flying available on Thursdays until 2100.
2	Customs and immigration	Customs agreement with UK Border Force - https://www.submit-general-aviation-report.service.gov.uk inbound from EU (excluding Republic of Ireland) 4 hours prior notice. Republic of Ireland, Northern Ireland, Channel Islands, Isle of Man 12 hours prior notice.
3	Health and sanitation	Russells Hall Hospital, Dudley - 8 miles.
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD Hours. See also AD 2.18
8	Fuelling	Self service refuelling for AVGAS and JET A-1 F34 available during AD hours and out of hours. Refuellers available from AD opening time until 15 minutes before close. Extensions on request with advanced notice available.
9	Handling	Contact Administration.
10	Security	H24
11	De-icing	
12	Remarks	This aerodrome is PPR. Out of hours scheme via website.

EGBO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	JET A-1 F34, AVGAS 100LL TOTAL AERO D80, D100, 80, 100, DM 15W-50.
3	Fuelling facilities/capacity	JET A-1 F34 with self service pump 18,000 LT. JET A-1 F34 mobile bowser overwing and pressure refuelling 33,000 LT. AVGAS 100LL self service pump 20,000 LT.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Contact airport office, with short term and long term hangarage options available.

6	Repair facilities for visiting aircraft	Jetstream Hangar 8 Limited - 07989-703974.
7	Remarks	JET A-1 F34 Rotors running available Mon-Fri 0900-1645 (0800-1545); Extensions on request with advanced notice available. Available from helipads 4, 5 & 6 using the mobile bowser. Contact ATS to book in or for additional information.

EGBO AD 2.5 PASSENGER FACILITIES

1	Hotels	Red Lion Inn - 1.2 miles - 01384-221237.
2	Restaurants	Restaurant and Bar on site beneath Control Tower with balcony.
3	Transportation	Taxi's available. Nearest railway station - Stourbridge. Wolverhampton for mainline connections to London, Manchester, and Birmingham.
4	Medical facilities	Basic First Aid on site. De-Fibrilator on site. Russells Hall Hospital, Dudley - 8 miles.
5	Bank and Post Office	Wolverhampton. Wombourne - 5 miles.
6	Tourist Office	
7	Remarks	Two golf courses within ATZ, vineyard within ATZ - ask administration for details. Land Rover Discovery available to transport those with restricted mobility around AD.

EGBO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 on request. RFF Category 3 under remission.
2	Rescue equipment	Isuzu D-MAX TACR3, Toyota RAV4. Toyota TACR3 fully compliant with RFF Category 2 standards.
3	Capability for removal of disabled aircraft	Facilities available onsite.
4	Remarks	

EGBO AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGBO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

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EGBO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Taxiway Markings. Parking on apron or grass as directed by ATS. Three Stands 1, 2 & 3 adjacent fuel bay available for larger aircraft parks, as directed by ATS.
2	Runway and taxiway markings and lighting	Runway marking aid(s): 16/34: Runway Edge. Runway light(s): Runway Threshold lighting 16/34.
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	Hold boards.
5	Remarks	WDI: 523104.90N 0021543.81W (LGTD).

EGBO AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBO8558) 16/APPROACH 34/ TAKE-OFF	TREE	523123.26N 0021544.85W	314 FT		No	
(EGBO8188) 16/APPROACH 34/ TAKE-OFF	BUILDING CHIMNEY	523119.56N 0021552.25W	300 FT		No	
(EGBO8438) 34/APPROACH 16/ TAKE-OFF	TREE	523043.39N 0021520.65W	304 FT		No	
(EGBO8437) 34/APPROACH 16/ TAKE-OFF	TREE	523043.38N 0021520.43W	308 FT		No	
(EGBO1567) 34/APPROACH 16/ TAKE-OFF	MOBILE OBST	523043.31N 0021521.70W	297 FT		No	
(EGBO8439) 34/APPROACH 16/ TAKE-OFF	TREE	523038.83N 0021517.12W	323 FT		No	
(EGBO8440) 34/APPROACH 16/ TAKE-OFF	TREE	523038.72N 0021517.36W	321 FT		No	
(EGBO8449) 34/APPROACH 16/ TAKE-OFF	TREE	523038.46N 0021517.94W	331 FT		No	
(EGBO8450) 34/APPROACH 16/ TAKE-OFF	TREE	523038.36N 0021518.04W	335 FT		No	
(EGBO8436) 34/APPROACH 16/ TAKE-OFF	TREE	523038.31N 0021516.29W	327 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBO6239)	PYLON	523514.61N 0021433.01W	549 FT		No	
(EGBO6248)	PYLON	523441.12N 0021520.85W	538 FT		No	
(EGBO5821)	TREE	523223.44N 0021512.88W	501 FT		No	
(EGBO1289)	TREE	523218.53N 0021505.18W	482 FT		No	
(EGBO1291)	TREE	523215.96N 0021502.03W	484 FT		No	
(EGBO8032)	TREE	523126.51N 0021428.50W	511 FT		No	
(EGBO5812)	TREE	523122.26N 0021420.78W	518 FT		No	
(EGBO8040)	TREE	523120.67N 0021420.48W	521 FT		No	
(EGBO8043)	MAST	523118.25N 0021402.88W	485 FT		No	
(EGBO8547)	TREE	523117.54N 0021551.09W	325 FT		No	
(EGBO6978)	ANEMOMETER	523105.32N 0021544.29W	310 FT		Yes	
(EGBO6977)	WINDSLEEVE	523104.90N 0021543.81W	301 FT		No	
(EGBO8402)	TREE	523100.22N 0021514.07W	310 FT		No	
(EGBO8054)	TREE	523058.11N 0021344.62W	536 FT		No	
(EGBO8055)	TREE	523056.82N 0021342.50W	540 FT		No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGBO8058)	TREE	523053.67N 0021343.35W	544 FT		No	
(EGBO8059)	TREE	523053.16N 0021344.02W	541 FT		No	
(EGBO8063)	TREE	523046.48N 0021335.45W	516 FT		No	

EGBO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self Briefing / Telephone.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	Metform F214 / F215.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	WOLVERHAMPTON/HALFPENNY GREEN
10	Additional information (limitation of service, etc.)	Unofficial meteorological observations provided by FIS during AD hours.

EGBO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
04	036.71°	646 x 18 M	RWY surface: Asphalt	523059.16N 0021559.27W 166.2 FT	THR 260.2 FT	
22	216.71°	646 x 18 M	RWY surface: Asphalt	523112.52N 0021542.94W 166.2 FT	THR 277.6 FT	
10	096.84°	1055 x 18 M	RWY surface: Asphalt	523101.91N 0021602.11W 166.2 FT	THR 257.6 FT	
28	276.85°	1055 x 18 M	RWY surface: Asphalt	523058.94N 0021521.55W 166.2 FT	THR 274.4 FT	
16	155.83°	1170 x 30 M	RWY surface: Asphalt	523113.59N 0021542.44W 166.2 FT	THR 276.8 FT	
34	335.83°	1170 x 30 M	RWY surface: Asphalt	523050.63N 0021525.55W 166.2 FT	THR 277.8 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		706 x 60 M				RWY 04 Threshold displaced by 131 M.
		706 x 60 M				RWY 22
		1115 x 60 M				RWY 10 Threshold displaced by 151 M.
		1115 x 60 M				RWY 28 Threshold displaced by 134 M.
		1290 x 80 M				RWY 16 Threshold displaced by 206 M.
		1290 x 80 M				RWY 34 Threshold displaced by 186 M.

EGBO AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
16	1025 M	1025 M	1064 M	858 M	
34	1096 M	1096 M	1096 M	910 M	
10	799 M	799 M	799 M	799 M	
28	799 M	799 M	799 M	799 M	
04	646 M	646 M	646 M	515 M	
22	515 M	515 M	515 M	616 M	

EGBO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
16		Light intensity high Green wingbars	PAPI Left/3.5° 43 FT			HI elev bi-directional with LI omni-directional component	Red		
34		Light intensity high Green wingbars	PAPI Left/3.5° 47 FT			HI elev bi-directional with LI omni-directional component	Red		

EGBO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 523055.92N 0021548.99W Flashing Green 'WBA'
2	LDI location and lighting Anemometer location and lighting	Anemometer: 523105.32N 0021544.29W (LGTD); 523055.77N 0021549.32W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Yes, 120 seconds.

5	Remarks	Reflective markers on taxiway centreline. Stands 1, 2 and 3 floodlit.

EGBO AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO, geoid undulation	
2	TLOF and/or FATO elevation	
3	TLOF and FATO area dimensions, surface, strength, marking, lighting	
4	True BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	RMK	See aerodrome chart for named helicopter landing areas. Floodlights in vicinity of Helipads located near Fuel Bays.

EGBO AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WOLVERHAMPTON ATZ A circle, 2 NM radius, centred at 523103N 0021534W on longest notified runway (16/ 34)	Upper limit: 2000 FT AGL Lower limit: SFC	G	HALFPENNY GREEN INFORMATION English	6000 FT		

EGBO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
AFIS	HALFPENNY GREEN INFORMATION	123.005 DOC 20 NM/ 10,000 FT.			0900-1700 (0800-1700). During winter hours night flying available on Thursdays until 2100.	ATZ hours coincident with AFIS hours. A/G Service with callsign 'Halfpenny Green Radio' may operate for short periods during the hours of watch.

EGBO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	WOL	23X 108.600 MHz	H24	523056.86N 0021542.54W	300 FT	Range 15 NM. DOC 10,000 FT.
NDB 0.54°E (2027)	WBA	356.000 kHz	H24	523057.25N 0021542.34W		On AD. Range 25 NM. ADF swings in excess of ±10° between R150° and R160°

EGBO AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Pilots are responsible for their passengers whilst airside at this aerodrome.

b) High visibility clothing is recommended airside.
c) Non-radio aircraft are not permitted to operate outside of published hours. During published hours all non-radio flights are to be approved by ATS.
d) All movements outside of published hours are subject to the out of hours conditions published on the airport website.
e) During winter hours night flying can take place on Thursdays until 2100. Intended Night Flights are subject to PPR which must be notified no later than 1500 on the date of flight.

2 GROUND MOVEMENT

a) Fuel Bay operates a one-way system, entry at the west end (near Hangar 3 east), exit at east (near the mobile fuel bowser). Aircraft to draw up with pumps on starboard side.
b) Pilots must moderate taxiing speeds on Taxiway A and Taxiway F due to undulating surfaces and between A4 and the Fuel Bay due to the possible presence of pedestrians in this area. Special caution must be exercised in the area adjacent to the tower where there is a marked crossing area. Taxi speeds should not exceed a fast walking pace.
c) There are three stands marked 1, 2 and 3 and are adjacent to the Fuel Bay. These parking stands are available for fixed wing and rotary aircraft.
d) Jet aircraft should seek prior approval from ATS before booking in.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Runway 16/34 lights may be illuminated outside ATS hours for police helicopter operations.
b) Helicopters are not to hover within 50 M of DME/NDB masts, which are situated northeast of the eastern apron.
c) Runway 16/34 shallow depression on eastern edge of runway close to Runway 34 PAPIs will hold water after rain. Runway 16/34 shallow depression crosses the runway north of Runway 34 threshold.
d) View from A5 Hold restricted. Care to be taken when entering/crossing Runway 34.
e) Aircraft should not cut corners when turning on to taxiways and runways due to bad ground and fixed objects such as markers and lighting.
f) No instrument approaches are to be flown at anytime.
g) Pilots must taxi with caution near the Fuel Bay and in the area adjacent to the tower where there is a marked pedestrian crossing, due to pedestrians possibly manoeuvring on the taxiway. Taxi speeds should not exceed a fast walking pace.

5 HELICOPTER OPERATIONS

a) There are three designated helicopter pads marked 4, 5 & 6 adjacent to the mobile bowser.
b) Stands marked 1, 2 & 3 adjacent to the Fuel Bay can also be used to park helicopters.
c) Helicopters taxiing to the fuel pads are asked to operate their aircraft so as to minimise the effect of their downdraft on the nearby hangars.
d) Wheeled helicopters requiring fuel can expect to be instructed to land on Taxiway A to the south east of the fuel bay and then ground-taxi to fuelling pads 4, 5 or 6.
e) Hovering helicopters shall maintain a distance of 60 M from any active runway, taxiway, fencelines, buildings and public viewing area.
f) Helicopters are not to air taxi anywhere between the west of the Fuel Bay and A4 holding point, due to proximity to parked aircraft, buildings, and pedestrians. This includes the main parking apron.
g) See aerodrome chart for named helicopter landing areas.
h) Helicopters are not to land adjacent to the entrance of Hangar 3E. They should use the Helipads and be ground handled in an out of the hangar.
i) JET A-1 F34 Rotors running available Mon-Fri 0900-1645 (0800-1545); extensions available with advanced notice bookings. Available from Helipads 4,5 & 6 using the mobile bowser. Contact ATS to book in or for additional information.

6 USE OF RUNWAYS

a) Only Runway 16/34 is licensed for night use.
b) All runways and taxiway use restricted to aircraft weighing not more than twelve tonnes.

7 TRAINING

a) Training is permitted at the aerodrome. See website for deals on training packages.

EGBO AD 2.21 NOISE ABATEMENT PROCEDURES

a) Runway 16: All departures at the airfield boundary should make a track change of 10 degrees to the right. No left turns are to be made below 600 FT QFE. No direct overflights of Highgate Farm (523030.132N 0021457.5268W) are permitted.
b) Runway 34: No FANSTOP (practice engine failure after take-off) are permitted until passed Whittimere Farm (523149.1016N 0021551.696W), 1000 M beyond end of runway. Traffic turning left into the visual circuit are to avoid direct overflights of Claverley (523214.4204N 0021811.9592W) and Bobbington Village (523043.848N 0021658.116W).
c) Runway 28/10: Departures, approaches and visual circuits are to avoid direct overflights of Bobbington Village and Primary school (523043.848N 0021658.116W).
d) All visual circuits are to be completed within the ATZ.

EGBO AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Fixed wing circuits are LH at 1000 FT QFE.
b) Helicopter circuits are RH at 800 FT QFE.
c) Use of multiple runways is to cease when more than two aircraft are in or call to join the visual circuit. In this situation all aircraft should revert to the published runway. Any approaches to the non-published runway is then limited to one approach only with no mixed multiple circuits permitted. All aircraft are to revert to the published runway if any of the aircraft are student pilots or an emergency is declared. If Runway 16/34 is being used for a larger aircraft then it shall become the published runway until that aircraft has landed or departed the ATZ.
d) Autogyros are to fly the standard fixed wing circuit pattern and profiles. Pilots of autogyros are to prefix their callsign with 'Gyro' and be aware that they can be hard to see and that additional transmissions may be required to confirm their position and intentions to other aircraft.

2 JOINING

a) The standard fixed wing join is overhead. Aircraft should not descend below 1300 FT QFE on the deadside due to the helicopter circuit at 800 FT QFE.

3 DEPARTURES

a) **South:**

IFR Airways traffic departing to the south should file a flight plan direct to CPT VOR. Flight plans should not be filed for HON VOR due to commercial traffic volumes.

b) **North/East/West:**

File flight plan as normal using preferred reporting points.

When ready to taxi, request for an airways join from ATS and await further instructions.

EGBO AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGBO AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGBO-2-1

EGBO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

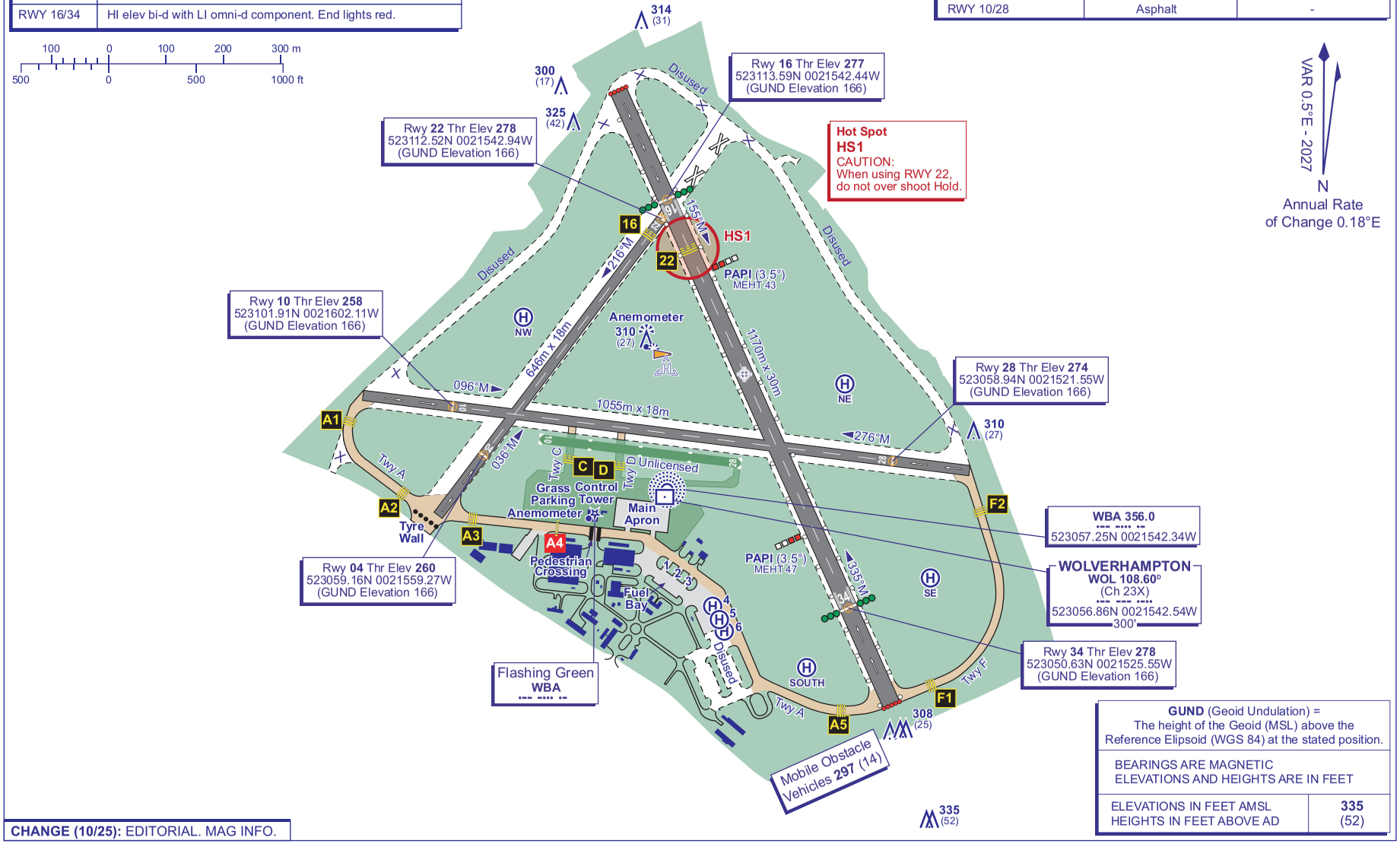
ARP 523104N 0021535W

AD ELEV 283FT

WOLVERHAMPTON
EGBO

COM		
AFIS	123.005	HALFPENNY GREEN INFO
LIGHTING		
THR 16/34	HI green W bars.	
RWY 16/34	HI elev bi-d with LI omni-d component. End lights red.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	SURFACE	PCN
RWY 16/34	Asphalt	-
RWY 04/22	Asphalt	-
RWY 10/28	Asphalt	-



GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.

BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET

ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	335 (52)

CHANGE (10/25): EDITORIAL. MAG INFO.

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EGTB — WYCOMBE AIR PARK/BOOKER

EGTB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGTB — WYCOMBE AIR PARK/BOOKER

EGTB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 513642N Long: 0004830W Mid point of Runway 06/24
2	Direction and distance from city	2.4 NM SW of High Wycombe.
3	Elevation / Reference temperature / Mean Low Temperature	516 FT / 19 °C / -
4	Geoid undulation at AD ELEV PSN	153 FT
5	Magnetic Variation / Annual Change	1.10°E (2027) / 0.17°E
6	AD Administration Address Telephone Telefax	AIRWAYS AERO ASSOCIATIONS LTD. Wycombe Air Park, Booker, Marlow, Buckinghamshire, SL7 3DP. 01494-529261 01494-438657 (A/G) 01494-443737 (Administration)
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGTB AD 2.3 OPERATIONAL HOURS

1	AD Administration	0900-1730 (0800-1630), or SS, whichever is earlier (See remarks).
2	Customs and immigration	By arrangement
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD Hours. See also AD 2.18.
8	Fuelling	
9	Handling	
10	Security	
11	De-icing	
12	Remarks	Aerodrome Strictly PPR at all times. Extended hours by arrangement: 1730-1900 (1630-1900).

EGTB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1 (with AL48), AVGAS 100LL W80, W100, 100S.
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGTB AD 2.5 PASSENGER FACILITIES

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EGTB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category A1 RFF Category 2 accepted under remission. Category 2 requirement must be notified when requesting PPR.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGTB AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGTB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt
2	Taxiway width, surface and strength	Taxiway ALPHA: 9 M Surface: Asphalt Taxiway BRAVO: 6.6 M Surface: Grass Matting.
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGTB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDI (LGTD) 513650.32N 0004815.75W.

EGTB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTB4114) 06/APPROACH 24/ TAKE-OFF	TREE	513651.77N 0004758.92W	566 FT	71 FT	No	
(EGTB4121) 06/APPROACH 24/ TAKE-OFF	TREE	513651.06N 0004758.55W	566 FT	70 FT	No	
(EGTB4129) 06/APPROACH 24/ TAKE-OFF	TREE	513650.67N 0004757.66W	570 FT	73 FT	No	
(EGTB4130) 06/APPROACH 24/ TAKE-OFF	TREE	513650.33N 0004759.45W	561 FT	64 FT	No	
(EGTB4123) 06/APPROACH 24/ TAKE-OFF	TREE	513650.22N 0004803.73W	543 FT	44 FT	No	
(EGTB4134) 06/APPROACH 24/ TAKE-OFF	TREE	513650.02N 0004757.15W	566 FT	69 FT	No	
(EGTB4112) 06/APPROACH 24/ TAKE-OFF	TREE	513649.82N 0004809.87W	537 FT	24 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTB4119) 06/APPROACH 24/ TAKE-OFF	TREE	513649.70N 0004808.40W	537 FT	27 FT	No	
(EGTB4135) 06/APPROACH 24/ TAKE-OFF	TREE	513649.55N 0004801.92W	549 FT	55 FT	No	
(EGTB4139) 06/APPROACH 24/ TAKE-OFF	TREE	513649.26N 0004801.48W	552 FT	54 FT	No	
(EGTB4141) 06/APPROACH 24/ TAKE-OFF	TREE	513649.07N 0004801.07W	554 FT	56 FT	No	
(EGTB4145) 06/APPROACH 24/ TAKE-OFF	TREE	513648.75N 0004800.50W	558 FT	56 FT	No	
(EGTB4149) 06/APPROACH 24/ TAKE-OFF	TREE	513648.40N 0004759.78W	558 FT	55 FT	No	
(EGTB4156) 06/APPROACH 24/ TAKE-OFF	TREE	513647.64N 0004758.13W	564 FT	60 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGTB1386)	RADIO MAST	513955.40N 0005525.61W	1120 FT	328 FT	Yes Red	
(EGTB1862)	MAST	513907.13N 0004349.39W	812 FT	210 FT	No	
(EGTB1387)	MAST	513825.85N 0004549.12W	714 FT	214 FT	No	
(EGTB3378)	MAST	513708.21N 0004916.50W	767 FT	109 FT	No	
(EGTB3795)	TREE	513706.99N 0005029.81W	725 FT	85 FT	No	
(EGTB1855)	MAST	513643.07N 0004405.09W	643 FT	170 FT	No	
(EGTB3686)	TREE	513557.01N 0005110.73W	669 FT	102 FT	No	

EGTB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

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EGTB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	**2**	**3**	**4**	**5**	**6**	**7**
06	062.42°	730 x 23 M	RWY surface: Asphalt	513636.82N 0004846.37W 153.1 FT	THR 513.2 FT	
24	242.43°	730 x 23 M	RWY surface: Asphalt	513647.75N 0004812.74W 153.1 FT	THR 513.2 FT	
06G	062.44°	631 x 23 M	RWY surface: Grass	513635.74N 0004840.07W 153.1 FT	THR 510.6 FT	

Designations RWY Number	True bearing	Dimensions of RWY	Surface of RWY/ SWY/ Strength	THR co-ordinates/ THR Geoid undulation	THR elevation/ Highest elevation of TDZ of precision APP RWY	Slope of RWY/ SWY
1	2	3	4	5	6	7
24G	242.45°	631 x 23 M	RWY surface: Grass	513645.20N 0004810.96W 153.1 FT	THR 508.9 FT	

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
		812 x 65 M				RWY 06
		812 x 65 M				RWY 24
						RWY 06G Strip Dimensions: 691 x 65 M.
						RWY 24G Strip Dimensions: 631 x 65 M.

EGTB AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
06	730 M	730 M	752 M	730 M	
24	730 M	730 M	730 M	730 M	
06G	631 M	631 M	631 M	631 M	
24G	631 M	631 M	631 M	631 M	

EGTB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
06		Light intensity low	APAPI Left/4° 12 FT			Light intensity low			
24		Light intensity low	APAPI Left/4° 12 FT			Light intensity low			

EGTB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	IBN: 513649.91N 0004813.11W Flashing Green 'WP'
2	LDI location and lighting Anemometer location and lighting	Anemometer: 513649.96N 0004813.05W
3	TWY edge and centre line lighting	CL: Green centre-line. EDGE: Blue linlaners on Taxiway Bravo.
4	Secondary power supply/switch-over time	
5	Remarks	

EGTB AD 2.16 HELICOPTER LANDING AREA

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EGTB AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
WYCOMBE AIR PARK/ BOOKER ATZ A circle, 2 NM radius, centred at 513642N 0004830W on longest notified runway (06/ 24)	Upper limit: 2000 FT AGL Lower limit: SFC	G	WYCOMBE RADIO English	6000 FT		

EGTB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	WYCOMBE RADIO	126.555 DOC 25 NM/4000 FT. A/G frequency.			0900-1730 (0800-1630), or SS, whichever is earlier. Extended hours by arrangement: 1730-1900 (1630-1900).	ATZ hours coincident with A/G hours, but not by arrangement.

EGTB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

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EGTB AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Aerodrome strictly PPR. Visiting aircraft and helicopters will not be accepted without prior permission being granted by the aerodrome authority. All pilots must receive briefing.
b) Air-ground communication service provided - 'Wycombe Radio'. No ATC. Pilots are responsible at all times for lookout and traffic separation.

2 GROUND MOVEMENT

a) Taxiway Bravo is a grass taxiway that has been reinforced with plastic matting to a width of 6.6 M, there is an inset yellow centre-line and the edges are marked with blue linlaners. Pilots should remain on the matting as the grass is subject to waterlogging.

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) The aerodrome is close to the London CTR and situated below the London TMA.
b) The aerodrome is liable to waterlogging.
c) Intense gliding takes place on and around the aerodrome. Pilots should maintain a sharp lookout at all times, but particularly when crossing between the main apron (Hold Alpha 3) and the grass Runway 06/24 (Hold Alpha 2). No overhead transits of aircraft due to gliding activity.
d) Helicopters operate inside fixed-wing circuits.
e) Non-standard markings on Main Apron do not guarantee wingtip clearance. Pilots should taxi with extreme caution.

5 HELICOPTER OPERATIONS

Not applicable

6 USE OF RUNWAYS

Not applicable

7 TRAINING

Not applicable

EGTB AD 2.21 NOISE ABATEMENT PROCEDURES

a) Pilots of departing aircraft are required to conform to strict Noise Abatement Procedures. These are available from the Aerodrome Operator.

EGTB AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuits variable.
b) Gliders will be flying a circuit opposite to that in use by powered aircraft.
c) Joining aircraft are to position to overfly the runway in use at 1200 FT QFE on the runway QDM. When overhead the midpoint of the runway turn left or right (depending on the circuit direction) to level at circuit height 1000 FT QFE on the crosswind leg prior to turning downwind.
d) Helicopter circuit height 750 FT QFE.

2 HELICOPTER OPERATIONS

a) Helicopters shall not operate above 50 FT QFE when within 150 M of the runways without permission. All arriving and departing helicopters must contact Wycombe Radio at the ATZ boundary for local aerodrome information. Maximum care is to be exercised when manoeuvring to/from the helipad, 100 M South of visual control room, to avoid the effect of downwash on fixed-wing aircraft and gliders, always maintain a minimum distance of 30 M from any structure. There will be no helicopter hover movements to the South or West of the Southwest corner of the helipad. Helicopters are at all times to avoid flying directly over or within 25 M of parked aircraft and gliders at low level. Helicopters must remain well clear of the housing area East of the Airfield.

3 LOCAL FLYING PROCEDURES

a) Although no part of the Wycombe Air Park ATZ lies within the London CTR the following procedures should be observed:

   i. Pilots operating on a VFR or SVFR clearance in the London CTR and inbound to Wycombe Air Park (or otherwise) must not assume clearance has been given to penetrate the Wycombe ATZ. Pilots must obtain prior permission from Wycombe by RTF;
   ii. Pilots requiring a VFR or SVFR clearance to transit the London CTR must remain outside the London CTR until a clearance has been obtained from Heathrow Radar;
   iii. Pilots of aircraft flying within the confines of the Wycombe ATZ are responsible for providing their own separation from other aircraft operating within the ATZ.

b) Gliders and glider tugs are to land beyond the locally agreed 'D' line to deconflict with taxiing aircraft.

4 VISUAL REFERENCE POINTS (VRP)

a) Details of VRPs are available in the consolidated 'Visual Reference Points List' published on the 'Digital Dataset' page of the NATS AIS website, www.nats.aero/ais.

EGTB AD 2.23 ADDITIONAL INFORMATION

Not applicable

EGTB AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO

AD 2.EGTB-2-1

EGTB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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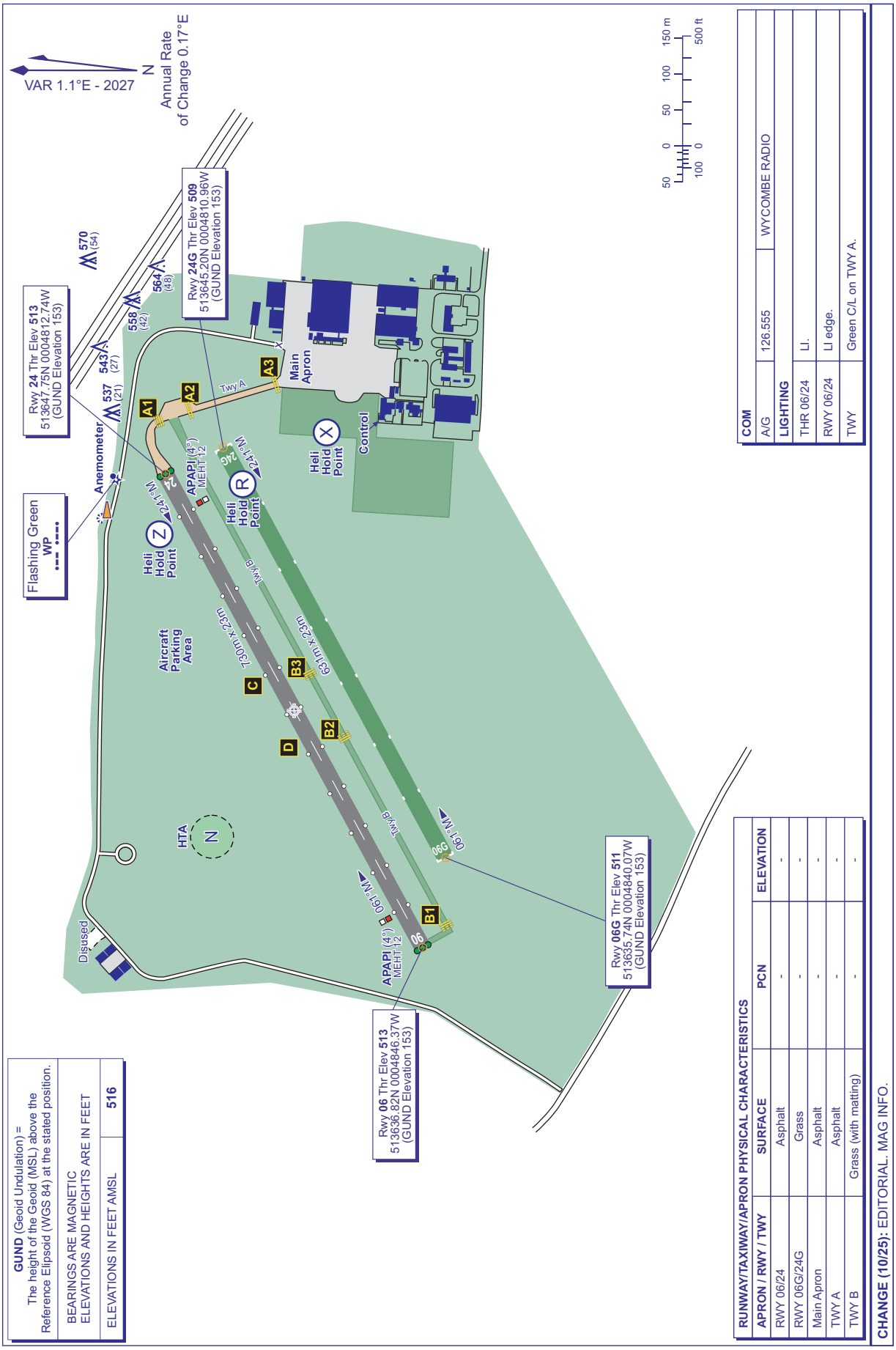
AERODROME CHART - ICAO

WYCOMBE AIR PARK/BOOKER EGTB

ARP 513642N 0004830W

AD ELEV 516FT



CHANGE (10/25): EDITORIAL. MAG INFO.

AERO INFO DATE 23 JUL 25

AD 2-EGTB-2-1

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EGHG — YEOVIL/WESTLAND

EGHG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

EGHG — YEOVIL/WESTLAND

EGHG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 505624N Long: 0023932W Mid point of Runway 09/27.
2	Direction and distance from city	1 NM W of Yeovil.
3	Elevation / Reference temperature / Mean Low Temperature	202 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	163 FT
5	Magnetic Variation / Annual Change	0.29°W (2022) / 0.20°E
6	AD Administration Address Telephone	LEONARDO UK LTD Yeovil Aerodrome, Lysander Road, Yeovil, Somerset, BA20 2YB. 01935-475222
7	Type of Traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

EGHG AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon-Thu 0900-1630 (0800-1530), Fri 0900-1530 (0800-1430); except PH.
2	Customs and immigration	By arrangement.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	ATS	As AD hours. See also AD 2.18
8	Fuelling	By arrangement.
9	Handling	
10	Security	
11	De-icing	
12	Remarks	This aerodrome is PPR. Available H24 for ambulance/medical and Police helicopters not required to use a licensed aerodrome.

EGHG AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1
3	Fuelling facilities/capacity	
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGHG AD 2.5 PASSENGER FACILITIES

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EGHG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category H3
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGHG AD 2.7 SEASONAL AVAILABILITY - CLEARING

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EGHG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	APRON Surface: Asphalt and grass Surface: Asphalt/Concrete/Grass
2	Taxiway width, surface and strength	
3	Altimeter checkpoint location and elevation	
4	VOR checkpoints	
5	INS checkpoints	
6	Remarks	

EGHG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	
2	Runway and taxiway markings and lighting	
3	Stop bars and runway guard lights (if any)	
4	Other runway protection measures	
5	Remarks	WDIs: 505619.46N 0023954.83W; 505626.30N 0023905.49W (LGTD).

EGHG AD 2.10 AERODROME OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHG1071) 09/APPROACH	TREE	505629.10N 0024020.34W	242 FT	36 FT	No	
(EGHG1068) 09/APPROACH	TREE	505628.73N 0024022.02W	250 FT	49 FT	No	
(EGHG1109) 09/APPROACH	LAMP POST	505628.12N 0024010.89W	220 FT	16 FT	No	
(EGHG1096) 09/APPROACH	SIGN	505628.04N 0024011.55W	222 FT	17 FT	No	
(EGHG1112) 09/APPROACH	FENCE	505628.00N 0024010.84W	215 FT	12 FT	No	
(EGHG1054) 09/APPROACH 27/ TAKE-OFF	TREE	505627.51N 0024040.54W	301 FT	104 FT	No	
(EGHG1110) 09/APPROACH	GATE	505627.43N 0024010.88W	214 FT	11 FT	No	
(EGHG1115) 27/TAKE-OFF	FENCE	505625.97N 0024010.78W	208 FT	10 FT	No	
(EGHG1277) 27/APPROACH	TREE	505625.74N 0023849.59W	201 FT	46 FT	No	

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHG1119) 27/TAKE-OFF	FENCE	505625.11N 0024010.60W	205 FT	10 FT	No	
(EGHG1098) 27/TAKE-OFF	ROAD	505625.09N 0024011.44W	211 FT	16 FT	No	
(EGHG1104) 27/TAKE-OFF	ROAD	505625.08N 0024011.06W	211 FT	16 FT	No	
(EGHG1101) 27/TAKE-OFF	ROAD	505625.08N 0024011.25W	212 FT	16 FT	No	
(EGHG1095) 09/APPROACH 27/ TAKE-OFF	HEDGE	505624.74N 0024011.62W	221 FT	25 FT	No	
(EGHG1103) 09/APPROACH	HEDGE	505622.03N 0024011.07W	215 FT	29 FT	No	
(EGHG1333) 27/APPROACH 09/ TAKE-OFF	TREE	505619.91N 0023759.94W	332 FT	93 FT	No	
(EGHG1338) 27/APPROACH	TREE	505619.11N 0023758.29W	315 FT	64 FT	No	
(EGHG1342) 27/APPROACH	TREE	505617.66N 0023756.15W	316 FT	80 FT	No	
(EGHG1353) 27/APPROACH	TREE	505612.04N 0023725.83W	388 FT	42 FT	No	
(EGHG1358) 27/APPROACH	MAST	505611.86N 0023723.15W	394 FT	67 FT	Yes Solid Red	
(EGHG1356) 27/APPROACH	TREE	505611.48N 0023724.10W	401 FT	63 FT	No	
(EGHG1354) 27/APPROACH	BUILDING	505611.26N 0023725.61W	391 FT	43 FT	No	
(EGHG1357) 27/APPROACH	TREE	505610.79N 0023723.50W	405 FT	69 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHG1219)	TREE	505715.50N 0023911.96W	435 FT	102 FT	No	
(EGHG1074)	MAST	505711.26N 0024020.29W	469 FT	159 FT	No	
(EGHG1059)	FLOODLIGHT	505702.90N 0024028.48W	399 FT	102 FT	No	
(EGHG1329)	AERIAL	505641.39N 0023804.46W	341 FT	147 FT	No	
(EGHG1083)	TREE	505638.43N 0024016.40W	340 FT	103 FT	No	
(EGHG1032)	MAST	505626.15N 0024218.31W	439 FT	52 FT	No	
(EGHG1333) 27/APPROACH 09/ TAKE-OFF	TREE	505619.91N 0023759.94W	332 FT	93 FT	No	
(EGHG1348)	TREE	505616.20N 0023731.99W	355 FT	61 FT	No	
(EGHG1047)	TREE	505613.83N 0024109.88W	342 FT	113 FT	No	
(EGHG1358) 27/APPROACH	MAST	505611.86N 0023723.15W	394 FT	67 FT	Yes Solid Red	
(EGHG1034)	CHURCH	505611.55N 0024210.46W	464 FT	81 FT	No	
(EGHG1357) 27/APPROACH	TREE	505610.79N 0023723.50W	405 FT	69 FT	No	
(EGHG1346)	TREE	505601.37N 0023736.72W	391 FT	94 FT	No	
(EGHG1036)	CHIMNEY	505600.59N 0024208.74W	389 FT	29 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHG1313)	TREE	505551.18N 0023832.37W	390 FT	106 FT	No	
(EGHG1231)	TREE	505548.25N 0023904.98W	370 FT	98 FT	No	
(EGHG1182)	TREE	505546.05N 0023946.98W	363 FT	103 FT	No	
(EGHG1414)	TREE	505545.21N 0023924.31W	384 FT	67 FT	No	
(EGHG1058)	TREE	505538.95N 0024029.12W	376 FT	99 FT	No	
(EGHG1045)	NATURAL HIGHPOINT	505456.81N 0024114.31W	377 FT		No	

EGHG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	As per operational hours.
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing in flight ops.
6	Flight documentation Language(s) used	Charts available.
7	Charts and other information available for briefing or consultation	214, 215 & MET warnings available.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	YEOVIL/WESTLAND
10	Additional information (limitation of service, etc.)	Official/unofficial observations provided hourly during operational hours.

EGHG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY Number	**True bearing**	**Dimensions of RWY**	**Surface of RWY/ SWY/ Strength**	**THR co-ordinates/ THR Geoid undulation**	**THR elevation/ Highest elevation of TDZ of precision APP RWY**	**Slope of RWY/ SWY**
1	**2**	**3**	**4**	**5**	**6**	**7**
09	091.83°	1190 x 37 M	RWY surface: Grass	505624.72N 0023958.43W 162.6 FT	THR 191.8 FT	RWY 09 -1:105 Down RWY 27 1:105 Up
27	271.85°	1190 x 37 M	RWY surface: Grass	505623.64N 0023905.28W 162.5 FT	THR 173.1 FT	RWY 09 -1:105 Down RWY 27 1:105 Up

SWY Dimensions	**Clearway Dimensions**	**Strip Dimensions**	**RESA Dimensions, Overshoot / Undershoot**	**Location/ description of arresting system**	**OFZ**	**Remarks**
8	**9**	**10**	**11**	**12**	**13**	**14**
						RWY 09 Runway not available to fixed-wing aircraft. Strip Dimensions: 1310 x 140 M Runway 09 threshold displaced by 152 M.

SWY Dimensions	Clearway Dimensions	Strip Dimensions	RESA Dimensions, Overshoot / Undershoot	Location/ description of arresting system	OFZ	Remarks
8	9	10	11	12	13	14
						RWY 27 Runway not available to fixed-wing aircraft. Strip Dimensions: 1238 x 140 M

EGHG AD 2.13 DECLARED DISTANCES

Runway designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
09	1190 M	1190 M	1190 M	1038 M	
27	1118 M	1118 M	1118 M	1118 M	

EGHG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY	Approach lighting Type/ Length/ Intensity	Threshold lighting Colour/Wing bars	VASIS/ MEHT/ PAPI/ PAPI Dist from THR	TDZ, lighting Length	Runway Centre Line lighting Length/ Spacing/ Colour/ Intensity	Runway edge lighting Length/ Spacing/ Colour/ Intensity	Runway end lighting Colour/ Wing bars	Stopway lighting Length/ Colour	Remarks
1	2	3	4	5	6	7	8	9	10
27	Simple approach lights. Light intensity high		PAPI Left/4.5° 31 FT 122 M			Portable (by arrangement) Light intensity low			

EGHG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	
2	LDI location and lighting Anemometer location and lighting	Anemometer: West: 505628.25N 0023953.54W (LGTD), East: 505626.73N 0023912.56W (LGTD).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	Helicopter apron edge lighting.

EGHG AD 2.16 HELICOPTER LANDING AREA

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EGHG AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
YEOVIL/WESTLAND ATZ 505817N 0024035W - 505804N 0023747W thence clockwise by the arc of a circle radius 2 NM centred on 505624N 0023932W to 505817N 0024035W	Upper limit: 2000 FT AGL Lower limit: SFC	G	WESTLAND APPROACH English	3000 FT		

EGHG AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
APP	WESTLAND APPROACH	130.805 DOC 25 NM/6000 FT.			Mon-Thu 0900-1630 (0800-1530), Fri 0900-1530 (0800-1430); except PH.	ATZ hours coincident with Approach hours. VDF 505628.35N 0023943.70W
TWR	WESTLAND TOWER	125.405 DOC 25 NM/4000 FT.			Mon-Thu 0900-1630 (0800-1530), Fri 0900-1530 (0800-1430); except PH.	VDF 505628.35N 0023943.70W

EGHG AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aid CAT of ILS/MLS MAG Var/VOR Declination	Ident	Frequency	Hours of Operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	YVL	27Y 109.050 MHz	HO	505626.62N 0023914.47W	194 FT	On AD. DOC 25 NM. DME performance anomalies may be evident in the Sector 310-030 MAG including signal drop outs and range errors up to 0.5 NM.
NDB (L) 0.54°E (2027)	YVL	343.000 kHz	HO	505628.82N 0023951.93W		On AD. Range 20 NM.

EGHG AD 2.20 LOCAL AERODROME REGULATIONS

1 AIRPORT REGULATIONS

a) Licensed for night operations by helicopters only.

2 GROUND MOVEMENT

Not applicable

3 CAT II/III OPERATIONS

Not applicable

4 WARNINGS

a) Noticeable windshear on Runway 27 approach.
b) Strict PPR in force, visiting aircraft may be delayed due to helicopter test flying.

c) The aerodrome surface is convex with a pronounced down gradient to the South at Runway 09 threshold.
d) Beware of bird concentrations.
e) Caution light aircraft, model aircraft and helicopter flying outside operational hours.
f) Caution is required after heavy rain.
g) Houses adjacent to the north and east boundaries of the aerodrome.
h) Trees on high ground up to 400 FT AMSL, 1 NM to the east.
i) Hangars in the southeast corner of the aerodrome.
j) High ground rising to 442 FT AMSL 2.5 NM to the southwest with Radio mast (LGTD) 528 FT AMSL.
k) Runway 09/27 has degraded and undulating surface. Aerodrome closed to fixed-wing aircraft.
l) Transitional slope infringed by 4.88 M due to Radome at 505626.69N 0023931.68W.
m) Transitional slope infringed by 2.13 M due to Aerodrome Boundary fence at 505629.74N 0024007.44W.
n) Wildlife control measures and grass cutting may take place outside published aerodrome operating hours.

5 HELICOPTER OPERATIONS

a) Procedures as for fixed-wing aircraft.

6 USE OF RUNWAYS

a) Runway surface degraded. Runway use by fixed-wing aircraft is prohibited.

7 TRAINING

Not applicable

EGHG AD 2.21 NOISE ABATEMENT PROCEDURES

a) All pilots should take particular note of noise sensitive areas at the eastern boundary of the aerodrome on final approach to Runway 27 which prohibits close base leg approaches to Runway 27 and low departures from Runway 09. An additional noise sensitive area exists at Brympton D'Evercy House (505612.88N 0024105.48W). Normal visual approaches to either runway should be made to an approximate mid-field position (e.g. abeam the radome) unless over-riding safety considerations exist or otherwise instructed by ATC. Pilots should plan to backtrack as required when departing from Runway 09 to avoid low departures over Yeovil town centre.

EGHG AD 2.22 FLIGHT PROCEDURES

1 CIRCUITS

a) Circuits to the south of the runway due to the proximity to Yeovilton. Circuit height 1000 FT AAL.

2 INSTRUMENT APPROACH PROCEDURES

a) Instrument Approach Procedures (IAP) for this aerodrome are established outside controlled airspace. See ENR 1.5.

EGHG AD 2.23 ADDITIONAL INFORMATION

Not applicable

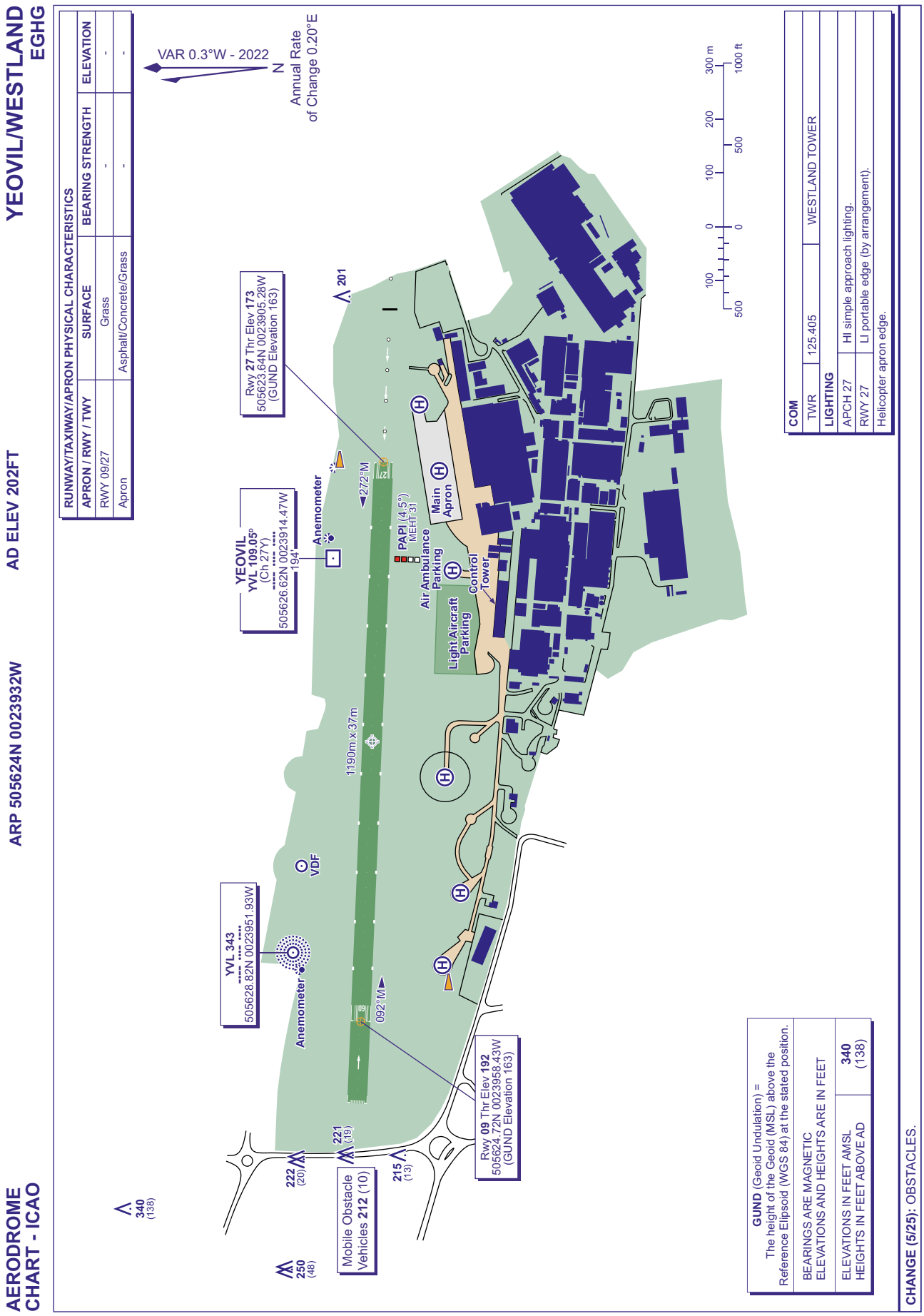
EGHG AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART - ICAO
AD 2.EGHG-2-1
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 09 (CAT A,B) - ICAO
AD 2.EGHG-8-1
INSTRUMENT APPROACH CHART DIRECT ARRIVALS to NDB(L)/DME RWY 09 (CAT A,B) - ICAO
AD 2.EGHG-8-2
INSTRUMENT APPROACH CHART RNP RWY 09 (CAT A,B) - ICAO
AD 2.EGHG-8-3
INSTRUMENT APPROACH CHART NDB(L)/DME RWY 27 (CAT A,B) - ICAO
AD 2.EGHG-8-4
INSTRUMENT APPROACH CHART DIRECT ARRIVALS to NDB(L)/DME RWY 27 (CAT A,B) - ICAO
AD 2.EGHG-8-5

INSTRUMENT APPROACH CHART RNP RWY 27 (ACFT CAT A,B) - ICAO
AD 2.EGHG-8-6
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 09
AD 2.EGHG-8-7
INSTRUMENT APPROACH PROCEDURE CODING TABLES - RNP RWY 27
AD 2.EGHG-8-8

EGHG AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

See section AD 2.10.


YEOVIL/WESTLAND
EGHG
AERODROME
CHART - ICAO
ARP 505624N 0023932W
AD ELEV 202FT
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY
SURFACE
BEARING STRENGTH
ELEVATION
RWY 09/27
Grass
-
-
Apron
Asphalt/Concrete/Grass
-
-
VAR 0.3°W - 2022
Annual Rate of Change 0.20°E
N
Rwy 27 Thr Elev 173
505623.64N 0023905.28W
(GUND Elevation 163)
YEOVIL
YVL 109.05
(Ch 27Y)
505626.62N 0023914.47W
194°
YVL 343
505628.82N 0023951.93W
Rwy 09 Thr Elev 192
505624.72N 0023958.43W
(GUND Elevation 163)
1190m x 37m
272°M
092°M
PAPI (4.5°)
MEHT 31
Anemometer
Anemometer
VDF
Main Apron
Air Ambulance Parking
Control Tower
Light Aircraft Parking
Mobile Obstacle Vehicles 212 (10)
201
221 (19)
222 (20)
215 (13)
340 (138)
250 (48)
COM
TWR
125.405
WESTLAND TOWER
LIGHTING
APCH 27
HI simple approach lighting.
RWY 27
LI portable edge (by arrangement).
Helicopter apron edge.
GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Elipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS AND HEIGHTS ARE IN FEET
ELEVATIONS IN FEET AMSL
HEIGHTS IN FEET ABOVE AD
340 (138)
CHANGE (5/25): OBSTACLES.
AERO INFO DATE 28 FEB 25
AD 2-EGHG-2-1

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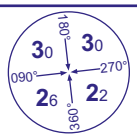
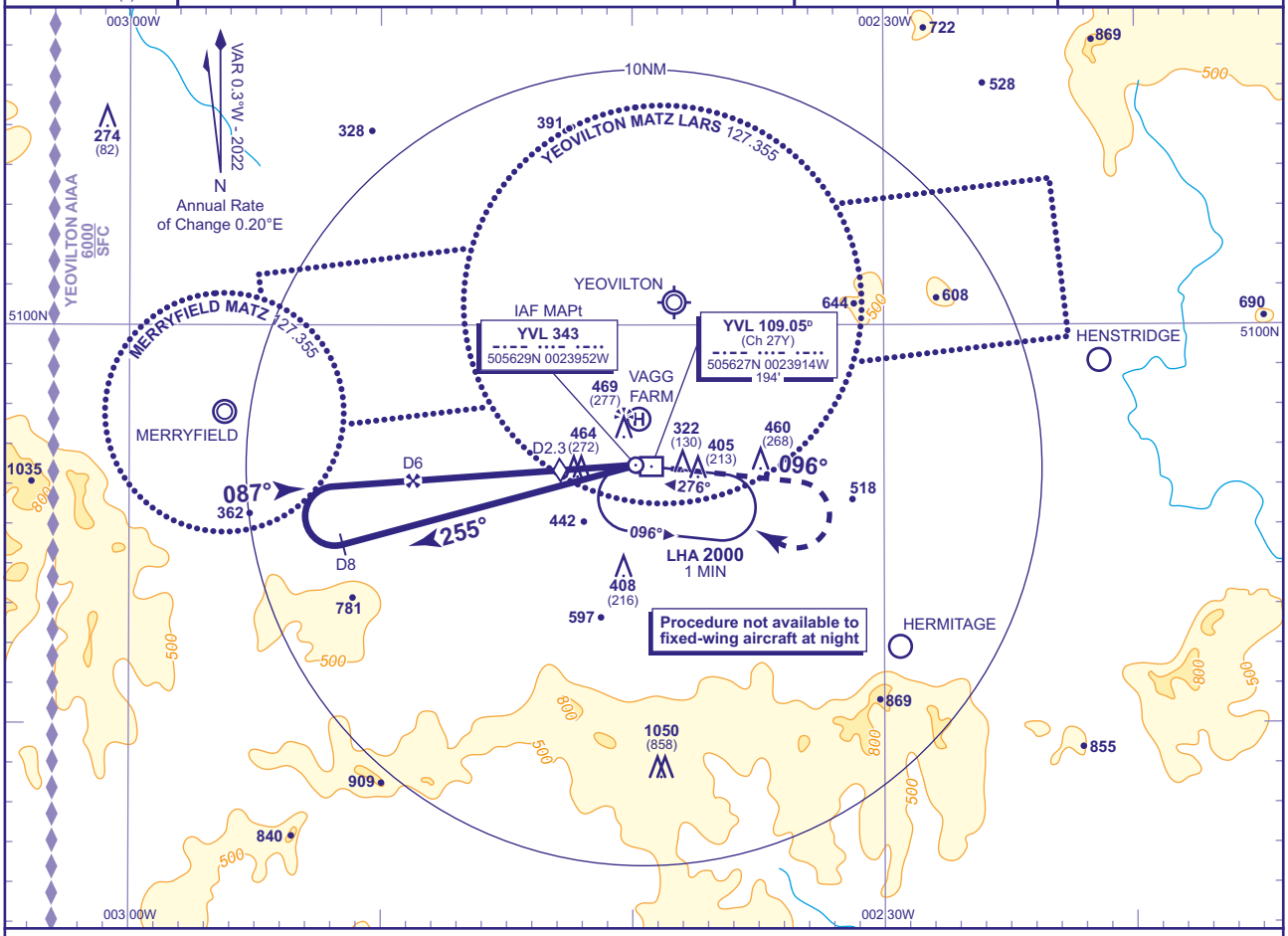
INSTRUMENT APPROACH CHART - ICAO

YEOVIL/WESTLAND
NDB(L)/DME
RWY 09
(ACFT CAT A,B)



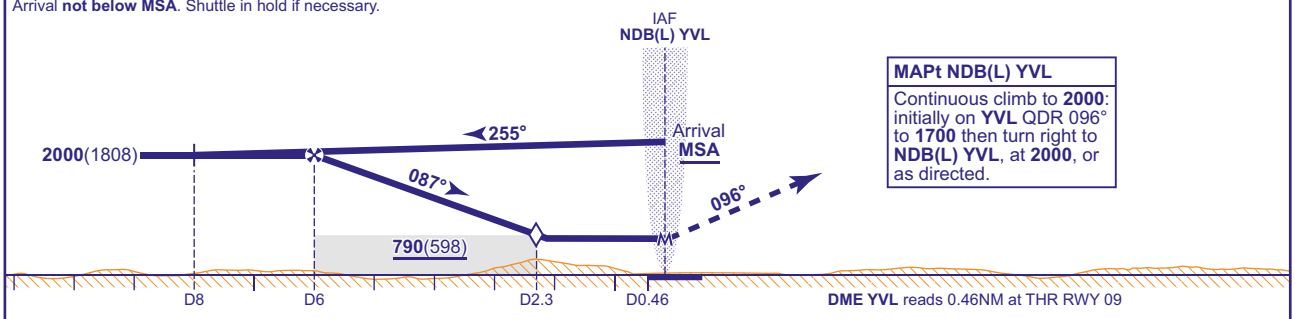
APP	130.805	WESTLAND APPROACH	AD ELEVATION	202
TWR	125.405	WESTLAND TOWER	THR ELEVATION	192
			OBSTACLE ELEVATION 1050 AMSL (858) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 3000



RECOMMENDED PROFILE Gradient 5.22%, 317FT/NM

DME YVL	5	4	3	2.3 **(SDF)**	2
ALT(HGT)	**1680**(1488)	**1370**(1178)	**1050**(858)	**830**(638)	**730**(538)

Arrival **not below MSA**. Shuttle in hold if necessary.



MAPt NDB(L) YVL

Continuous climb to **2000**: initially on **YVL** QDR 096° to **1700** then turn right to **NDB(L) YVL**, at **2000**, or as directed.

Aircraft Category		A	B
OCA (OCH)	**WITH DME**	**720**(528)	**720**(528)
	NO DME	**840**(648)	**840**(648)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(568)	**840**(638)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	630	530	420

AIRCRAFT UNABLE TO RECEIVE DME YVL
As for main procedure except fly outbound for 3MIN prior to base turn right. When established on FAT descend to MDH.

NOTES
1. FAT offset 4.9° from RWY C/L and crosses the extended RWY C/L 0.76NM from THR (YVL DME 1.2).
2. Lowest altitude to commence procedure from hold is **2000**.
3. For direct arrivals see chart AD 2-EGHG-8-2.
4. The southeast boundary of Merryfield MATZ abuts the base turn. To avoid conflicts with Merryfield VFR traffic, pilots should not extend beyond D8.5 when in the turn.
5. Inbound aircraft make initial contact with Yeovil Radar, 127.355.
6. Obstacles infringe the Visual Segment Surface on final approach. See EGHG AD 2.10, Aerodrome Obstacles.

CHANGE (9/25): YEOVILTON RADAR FREQUENCY REVISED.

AERO INFO DATE 16 JUN 25

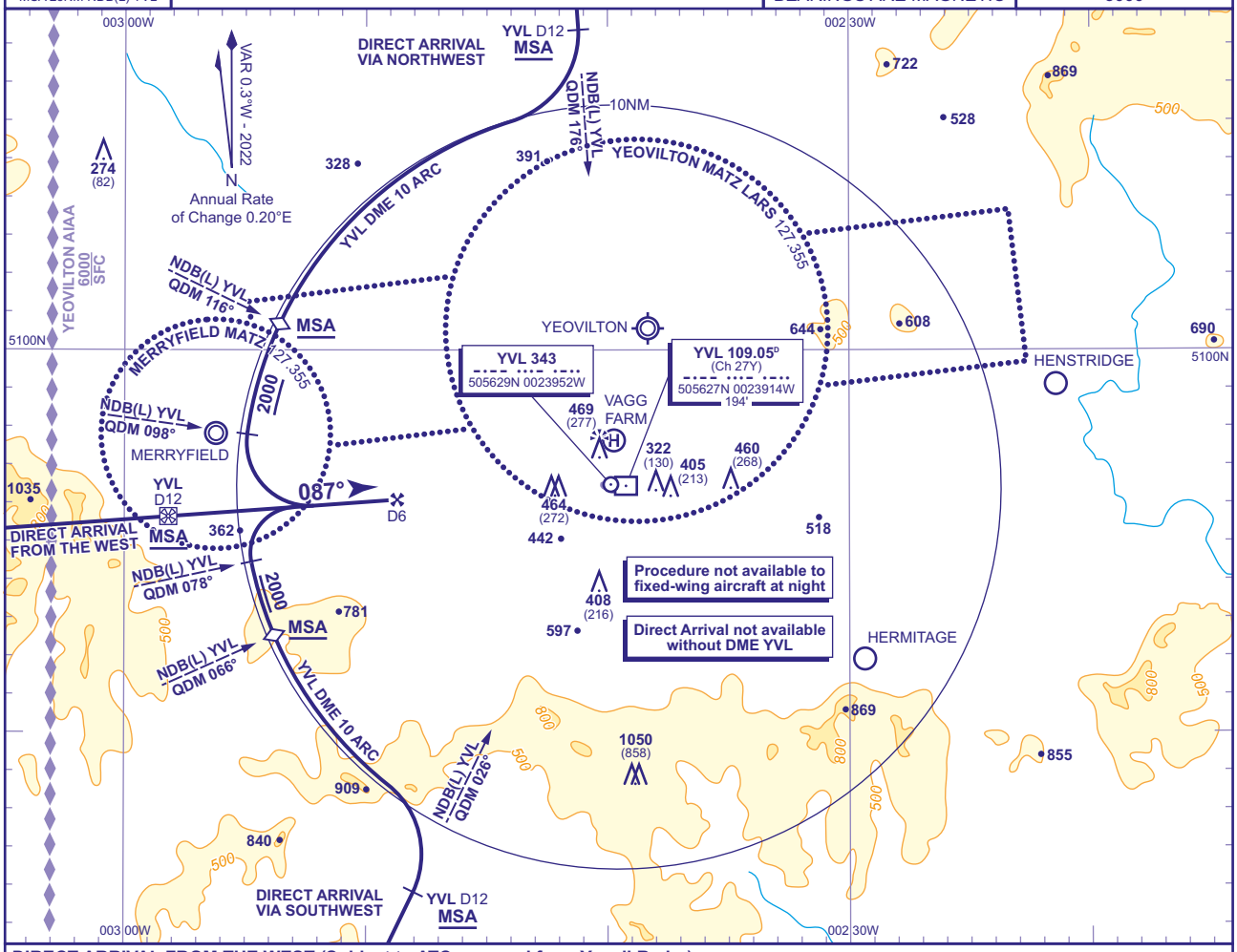
AD 2-EGHG-8-1

INSTRUMENT APPROACH CHART - ICAO

YEOVIL/WESTLAND
Direct Arrivals to NDB(L)/DME RWY 09
(ACFT CAT A,B)

APP	130.805	WESTLAND APPROACH	AD ELEVATION	202
TWR	125.405	WESTLAND TOWER	THR ELEVATION	192
			OBSTACLE ELEVATION 1050 AMSL (858) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	TRANSITION ALTITUDE 3000

MSA 25NM NDB(L) YVL



DIRECT ARRIVAL FROM THE WEST (Subject to ATC approval from Yeovil Radar)
Arrival **not below MSA** to intercept and establish on extended FAT. After passing IAF (NDB(L) YVL QDM 087° YVL DME 12) descend to cross FAF (DME 6) at **2000**(1808) then continue as for main procedure.

DIRECT ARRIVAL FROM THE NORTHWEST (Subject to ATC approval from Yeovil Radar)
Track towards NDB(L) YVL, **not below MSA**, NDB(L) YVL QDM 176° and 116°. At YVL DME 12 turn right and establish on the YVL DME 10 arc. After passing NDB(L) YVL QDM 116° descend to **not below 2000**. At NDB(L) YVL QDM 098° turn left to establish on extended FAT. When established on the extended FAT, continue as for main procedure.

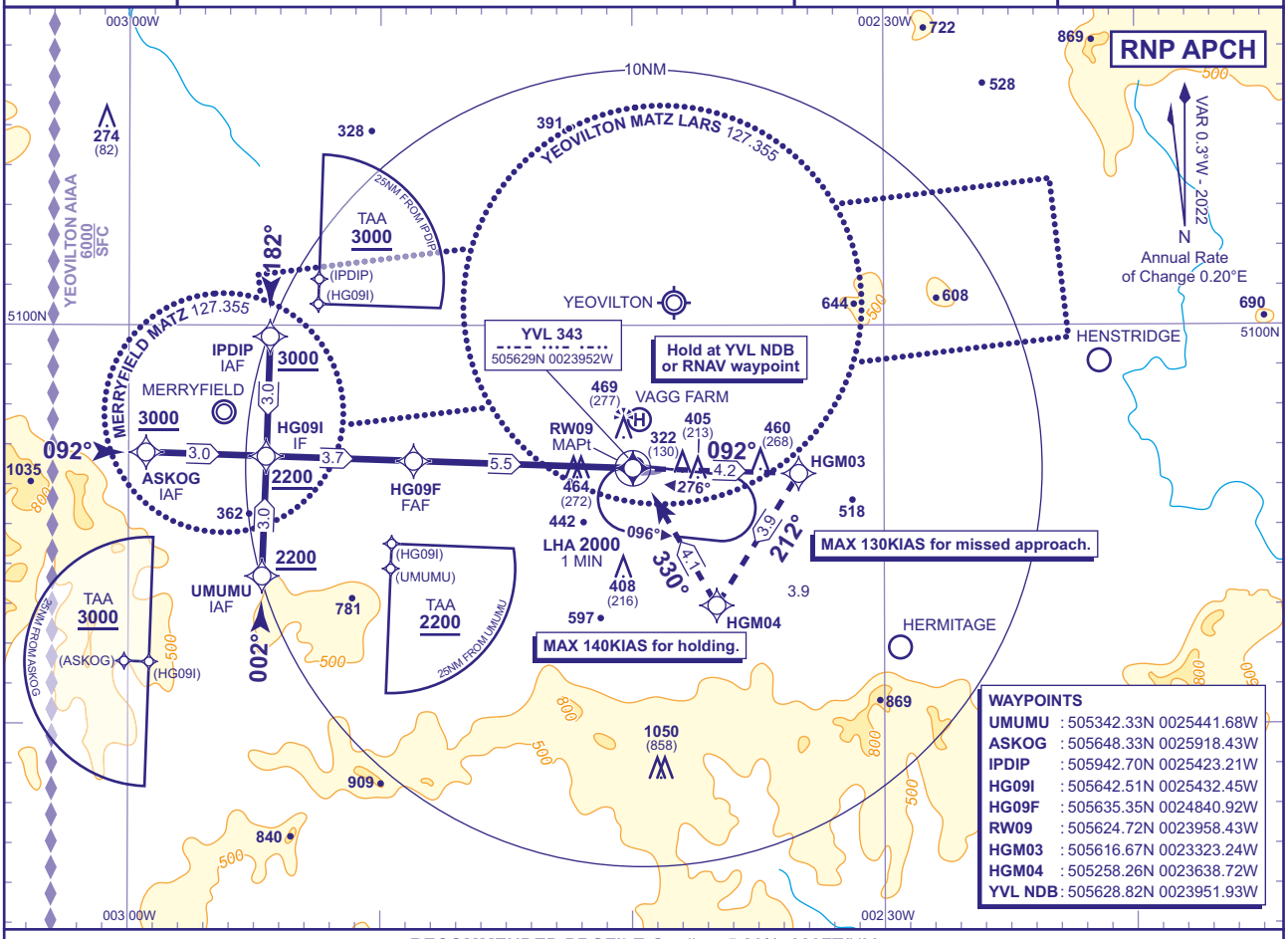
DIRECT ARRIVAL FROM THE SOUTHWEST (Subject to ATC approval from Yeovil Radar)
Track towards NDB(L) YVL, **not below MSA**, NDB(L) YVL QDM 026° and 066°. At YVL DME 12 turn left and establish on the YVL DME 10 arc. After passing NDB(L) YVL QDM 066° descend to **not below 2000**. At NDB(L) YVL QDM 078° turn right to establish on extended FAT. When established on the extended FAT, continue as for main procedure.

CHANGE (9/25): YEOVILTON RADAR FREQUENCY REVISED.

INSTRUMENT APPROACH CHART - ICAO

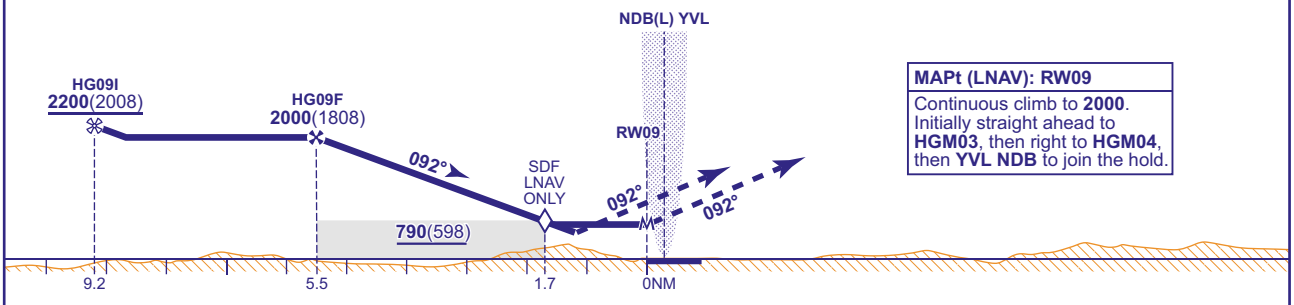
YEOVIL/WESTLAND
RNP
RWY 09
(ACFT CAT A,B)

30 MSA 25NM ARP	APP 130.805	WESTLAND APPROACH	AD ELEVATION 202	TRANSITION ALTITUDE 3000
	TWR 125.405	WESTLAND TOWER	THR ELEVATION 192	
			OBSTACLE ELEVATION 1050 AMSL (858) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE Gradient 5.26%, 320FT/NM

NM to RW09	5	4	3	2	1.7 (SDF)
ALT(HGT)	**1850**(1658)	**1530**(1338)	**1210**(1018)	**890**(698)	**790**(598)



MAPt (LNAV): RW09
Continuous climb to **2000**. Initially straight ahead to **HGM03**, then right to **HGM04**, then **YVL NDB** to join the hold.

Aircraft Category		A	B
OCA (OCH)	LNAV	**710**(518)	**710**(518)
VM(C)OCA (OCH AAL)	Total Area	**770**(568)	**840**(638)

Rate of descent	G/S KT		130	120	100	80
	FT/MIN		695	640	535	425

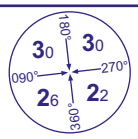
NOTE
1 Lowest holding altitude **2000**. Lowest altitude to commence procedure from the hold is **3000**.
2 Procedures infringe the Merryfield ATZ and MATZ. Co-ordination will be provided by Westland Approach.
3 Visiting aircraft should make contact with Yeovil Radar, 127.355MHz.
4 Where possible, pilots should route via IAF UMUMU to remain clear of Yeovilton airspace.
5 RNP procedure not available when AFIS is in operation.
6 The RNP hold YVL is coincident with the NDB hold; either can be used.
7 Obstacles infringe the Visual Segment Surface on final approach. See EGHG AD 2.10 Aerodrome Obstacles.

CHANGE (9/25): YEOVILTON RADAR FREQUENCY REVISED.

AERO INFO DATE 16 JUN 25
AD 2-EGHG-8-3

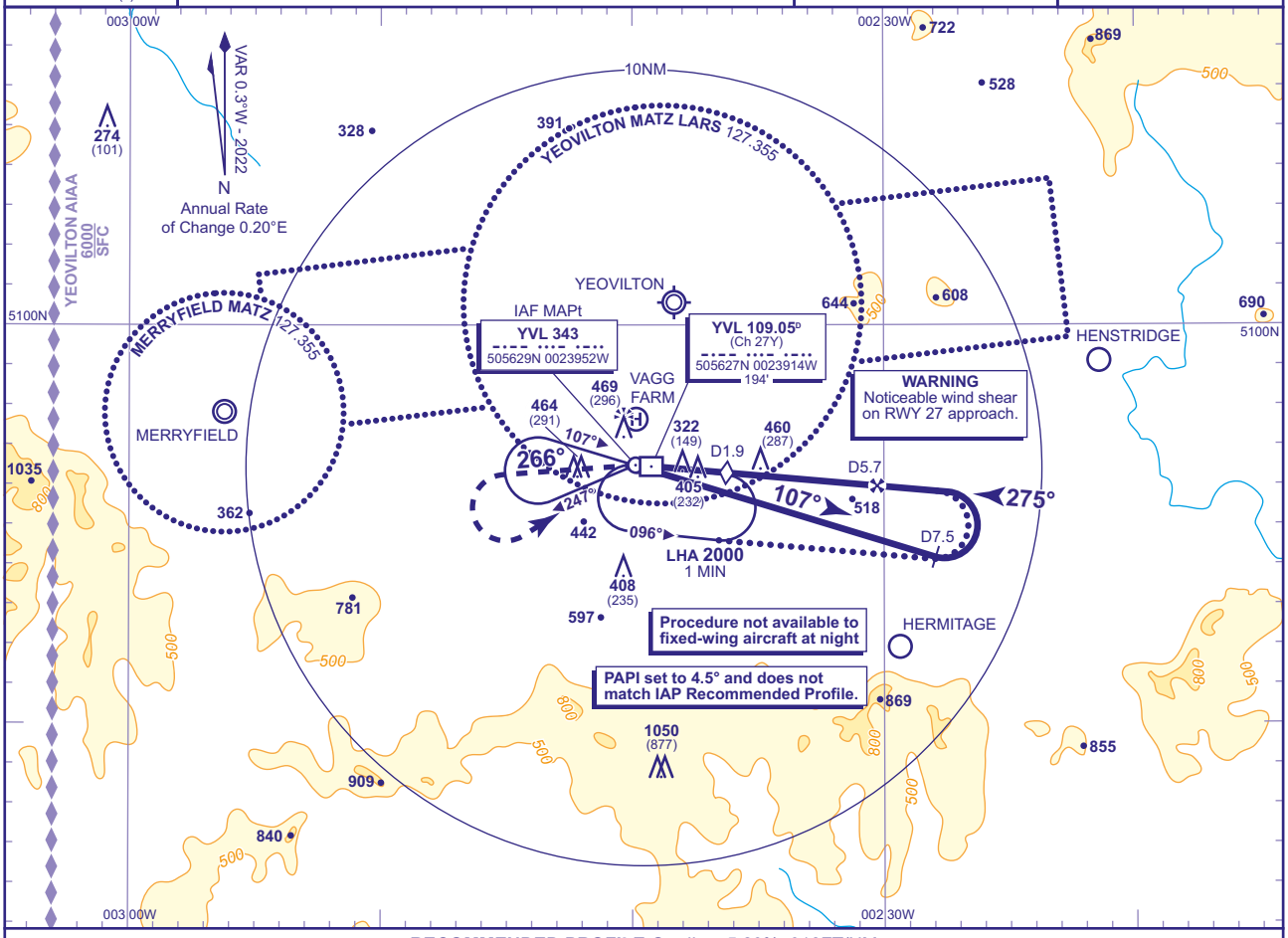
INSTRUMENT APPROACH CHART - ICAO

YEOVIL/WESTLAND
NDB(L)/DME
RWY 27
(ACFT CAT A,B)



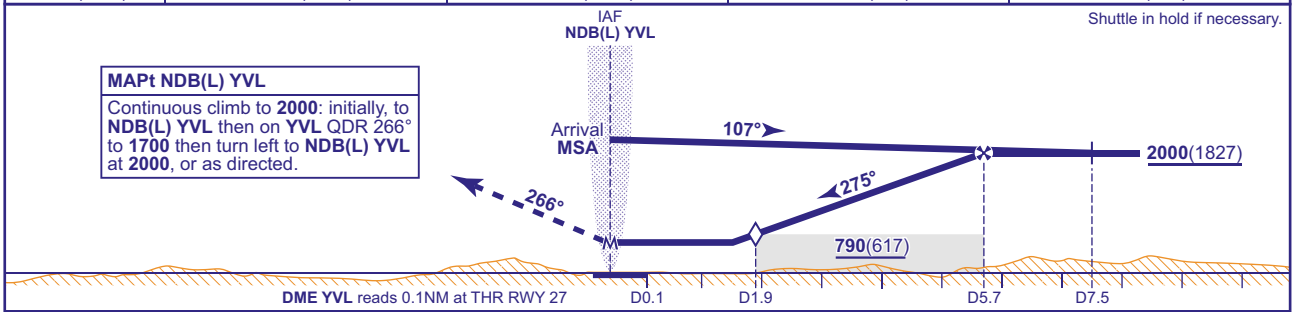
MSA 25NM NDB(L) YVL

APP	130.805	WESTLAND APPROACH	AD ELEVATION	**202**	TRANSITION ALTITUDE **3000**
TWR	125.405	WESTLAND TOWER	THR ELEVATION	**173**	
			OBSTACLE ELEVATION **1050 AMSL** (877) (ABOVE THR)		
			BEARINGS ARE MAGNETIC		



RECOMMENDED PROFILE Gradient 5.23%, 318FT/NM

DME YVL	5	4	3	2
ALT(HGT)	**1780**(1607)	**1460**(1287)	**1140**(967)	**830**(657)



Aircraft Category		A	B
OCA (OCH)	**WITH DME**	**670**(497)	**670**(497)
	NO DME	**860**(687)	**860**(687)
VM(C)OCA (OCH AAL)	**Total Area**	**770**(568)	**840**(638)

Rate of descent	G/S KT	160	140	120	100	80
	FT/MIN	850	740	640	530	420

RACETRACK PROCEDURE Extend the outbound leg of the NDB(L) YVL hold on track 095° descending to **not below 2000**. At YVL DME 7.5 turn left to intercept the extended FAT. When established continue as for main procedure.

AIRCRAFT UNABLE TO RECEIVE DME YVL
As for main procedure except fly outbound for 3MIN prior to base turn left. When established on FAT descend to MDH.

NOTES
1. FAT offset 3.3° from RWY C/L and crosses the extended RWY C/L 0.76NM from THR (YVL DME 0.84).
2. Lowest altitude to commence procedure from hold is **2000**.
3. To commence procedure from hold, from overhead NDB(L) YVL, fly outbound on QDR 247° for 1MIN then turn right back to facility on QDM 107° **not below 2000**.
4. For direct arrivals see chart AD 2-EGHG-8-5.
5. Inbound aircraft make initial contact with Yeovil Radar, 127.355.
6. Obstacles infringe the Visual Segment Surface on final approach. See EGHG AD 2.10 Aerodrome Obstacles.

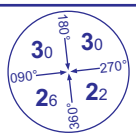
CHANGE (9/25): YEOVILTON RADAR FREQUENCY REVISED.

AERO INFO DATE 16 JUN 25

AD 2-EGHG-8-4

INSTRUMENT APPROACH CHART - ICAO

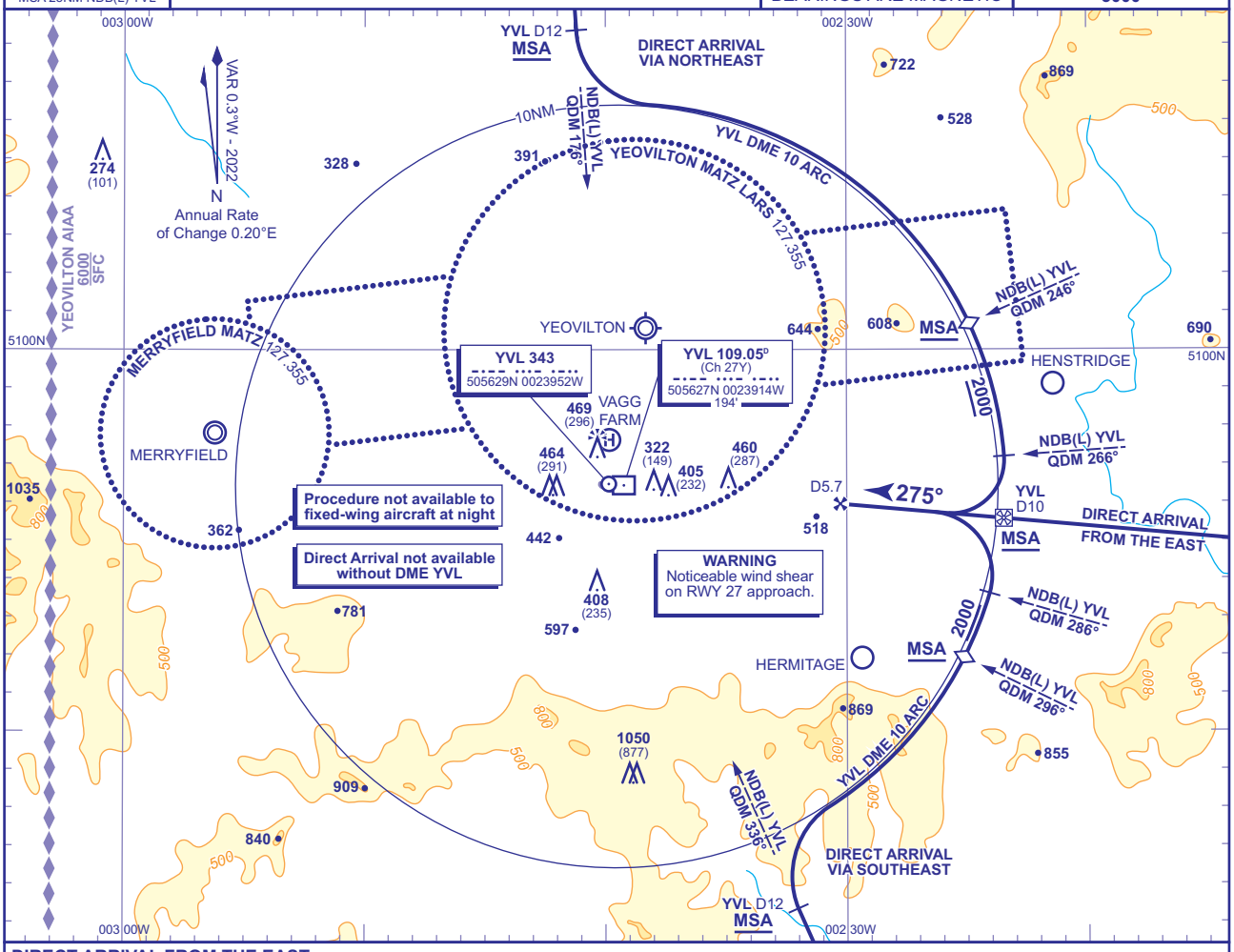
YEOVIL/WESTLAND
Direct Arrivals to NDB(L)/DME RWY 27
(ACFT CAT A,B)



MSA 25NM NDB(L) YVL

APP	130.805	WESTLAND APPROACH	AD ELEVATION	202
TWR	125.405	WESTLAND TOWER	THR ELEVATION	173
			OBSTACLE ELEVATION 1050 AMSL (877) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	

TRANSITION ALTITUDE 3000



DIRECT ARRIVAL FROM THE EAST
Arrival **not below MSA** to intercept and establish on extended FAT. After passing IAF (NDB(L) YVL QDM 275° YVL DME 10) descend to cross FAF (DME 5.7) at **2000**(1827) then continue as for main procedure.

DIRECT ARRIVAL FROM THE NORTHEAST (Subject to ATC approval form Yeovil Radar)
Track towards NDB(L) YVL, **not below MSA**, NDB(L) YVL QDM 176° and 246°. At YVL DME 12 turn left and establish on the YVL DME 10 arc. After passing NDB(L) YVL QDM 246° descend to **not below 2000**. At NDB(L) YVL QDM 266° turn right to establish on extended FAT. When established on the extended FAT, continue as for main procedure.

DIRECT ARRIVAL FROM THE SOUTHEAST
Track towards NDB(L) YVL, **not below MSA**, between NDB(L) YVL QDM 336° and 296°. At YVL DME 12 turn right and establish on the YVL DME 10 arc. After passing NDB(L) YVL QDM 296° descend to **not below 2000**. At NDB(L) YVL QDM 286° turn left to establish on extended FAT. When established on the extended FAT, continue as for main procedure.

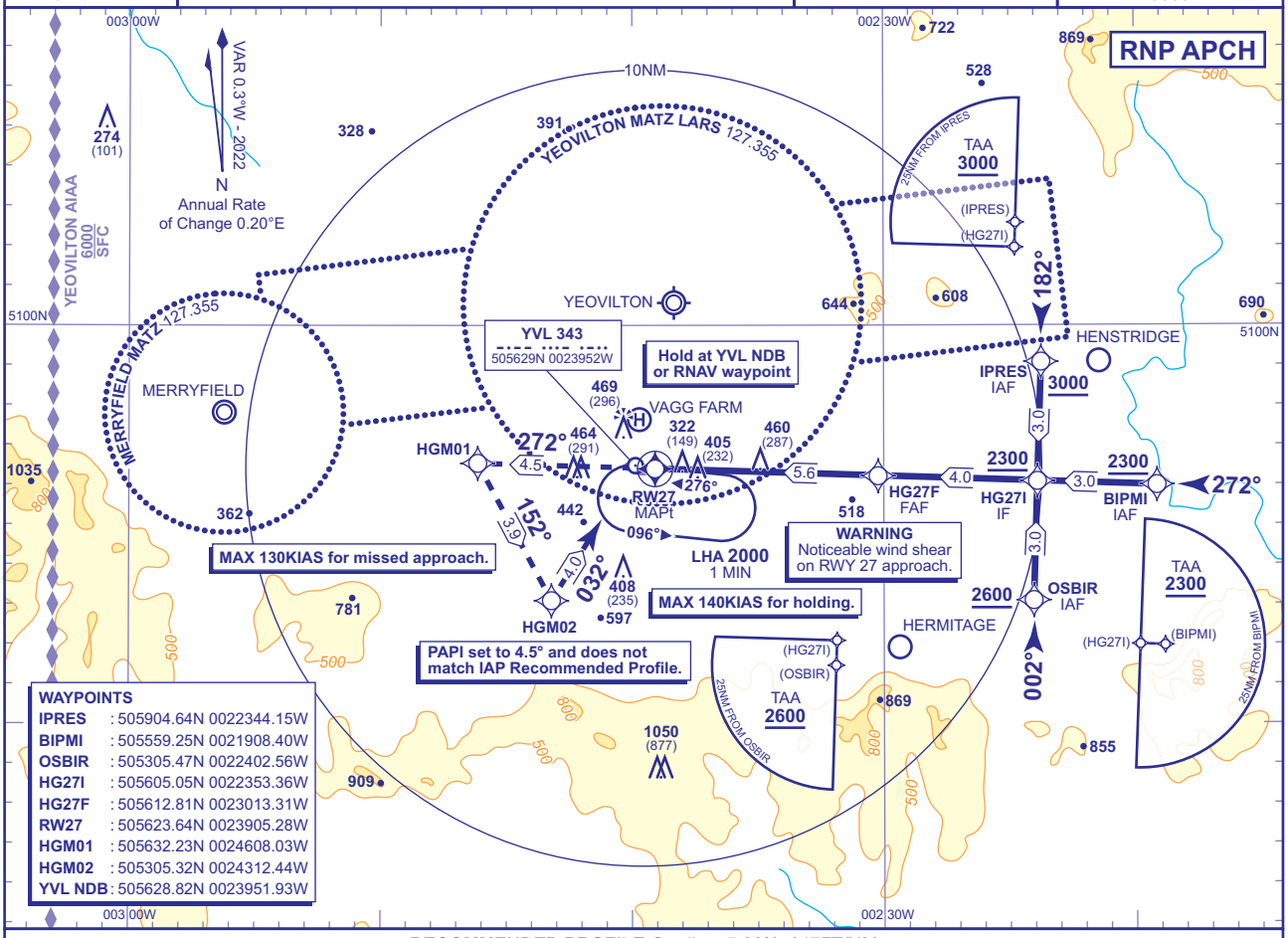
CHANGE (9/25): YEOVILTON RADAR FREQUENCY REVISED.

AERO INFO DATE 16 JUN 25

INSTRUMENT APPROACH CHART - ICAO

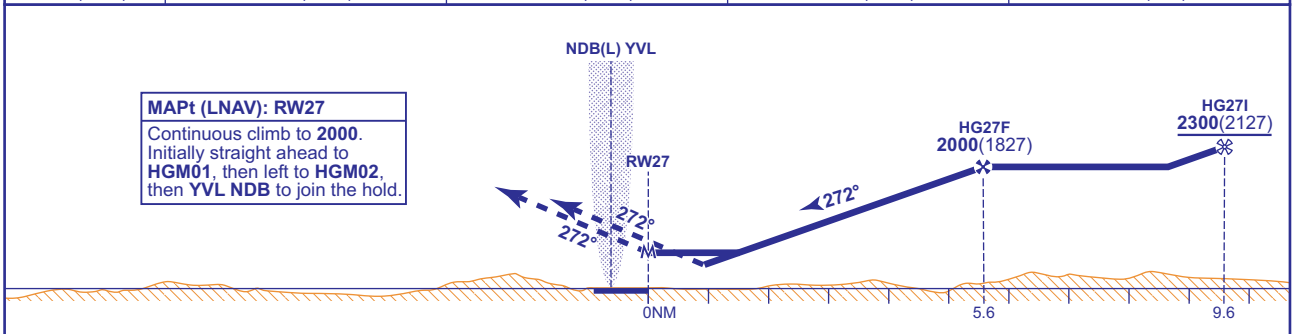
YEOVIL/WESTLAND
RNP
RWY 27
(ACFT CAT A,B)

30 MSA 25NM ARP	APP 130.805	WESTLAND APPROACH	AD ELEVATION 202	TRANSITION ALTITUDE 3000
	TWR 125.405	WESTLAND TOWER	THR ELEVATION 173	
			OBSTACLE ELEVATION 1050 AMSL (877) (ABOVE THR)	
			BEARINGS ARE MAGNETIC	



RECOMMENDED PROFILE Gradient 5.22%, 317FT/NM

NM to RW27	5	4	3	2
ALT(HGT)	**1810**(1637)	**1500**(1327)	**1180**(1007)	**860**(687)



Aircraft Category		A	B
OCA (OCH)	LNAV	**710**(537)	**710**(537)
VM(C)OCA (OCH AAL)	Total Area	**770**(568)	**840**(638)

Rate of descent	G/S KT		130	120	100	80
	FT/MIN		690	635	530	425

NOTE
1. Lowest holding altitude **2000**. Lowest altitude to commence procedure from hold is **3000**.
2. Visiting aircraft should make initial contact with Yeovil Radar, 127.355MHz.
3. Where possible, pilots should route via IAF OSBIR to remain clear of Yeovilton airspace.
4. RNP procedure not available when AFIS is in operation.
5. The RNP hold YVL is coincident with the NDB hold; either can be used.
6. Obstacles infringe the Visual Segment Surface on final approach. See EGHG AD 2.10 Aerodrome Obstacles.

CHANGE (9/25): YEOVILTON RADAR FREQUENCY REVISED.

AERO INFO DATE 16 JUN 25

AD 2-EGHG-8-6

Instrument Approach Procedure Coding Tables

Yeovil RNP RWY 09 - Instrument Approach Procedure via IPDIP

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09L	001	IF	IPDIP	-	182° (181.85°)	-	3000	180	505942.70N 0025423.21W	IAF
R09L	002	TF	HG09I	-	092° (091.85°)	LEFT	2200	180	505642.51N 0025432.45W	IF 9.2NM
R09L	003	TF	HG09F	-	092° (091.85°)	-	2000	130	505635.35N 0024840.92W	FAF 5.5NM
R09L	004	TF	RW09	Y	092° (091.85°)	-	-	130	505624.72N 0023958.43W	MAPt
R09L	005	TF	HGM03	-	092° (091.85°)	-	-	130	505616.67N 0023323.24W	-
R09L	006	TF	HGM04	-	212° (211.85°)	RIGHT	-	130	505258.26N 0023638.72W	-
R09L	007	TF	YVL	-	330° (329.97°)	RIGHT	2000	140	505628.82N 0023951.93W	HOLD

Yeovil RNP RWY 09 - Instrument Approach Procedure via ASKOG

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09C	001	IF	ASKOG	-	092° (091.85°)	-	3000	180	505648.33N 0025918.43W	IAF
R09C	002	TF	HG09I	-	092° (091.85°)	-	2200	180	505642.51N 0025432.45W	IF 9.2NM
R09C	003	TF	HG09F	-	092° (091.85°)	-	2000	130	505635.35N 0024840.92W	FAF 5.5NM
R09C	004	TF	RW09	Y	092° (091.85°)	-	-	130	505624.72N 0023958.43W	MAPt
R09C	005	TF	HGM03	-	092° (091.85°)	-	-	130	505616.67N 0023323.24W	-
R09C	006	TF	HGM04	-	212° (211.85°)	RIGHT	-	130	505258.26N 0023638.72W	-
R09C	007	TF	YVL	-	330° (329.97°)	RIGHT	2000	140	505628.82N 0023951.93W	HOLD

Yeovil RNP RWY 09 - Instrument Approach Procedure via UMUMU

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R09R	001	IF	UMUMU	-	002° (001.85°)	-	2200	180	505342.33N 0025441.68W	IAF
R09R	002	TF	HG09I	-	092° (091.85°)	RIGHT	2200	180	505642.51N 0025432.45W	IF 9.2NM
R09R	003	TF	HG09F	-	092° (091.85°)	-	2000	130	505635.35N 0024840.92W	FAF 5.5NM
R09R	004	TF	RW09	Y	092° (091.85°)	-	-	130	505624.72N 0023958.43W	MAPt
R09R	005	TF	HGM03	-	092° (091.85°)	-	-	130	505616.67N 0023323.24W	-
R09R	006	TF	HGM04	-	212° (211.85°)	RIGHT	-	130	505258.26N 0023638.72W	-
R09R	007	TF	YVL	-	330° (329.97°)	RIGHT	2000	140	505628.82N 0023951.93W	HOLD

CHANGE (2/21): MAG VAR. MAG TRACKS. PAGE RENUMBERED.

Instrument Approach Procedure Coding Tables

Yeovil RNP RWY 27 - Instrument Approach Procedure via IPRES

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27R	001	IF	IPRES	-	182° (181.85°)	-	3000	180	505904.64N 0022344.15W	IAF
R27R	002	TF	HG27I	-	272° (271.85°)	RIGHT	2300	180	505605.05N 0022353.36W	IF 9.6NM
R27R	003	TF	HG27F	-	272° (271.85°)	-	2000	130	505612.81N 0023013.31W	FAF 5.6NM
R27R	004	TF	RW27	Y	272° (271.85°)	-	-	130	505623.64N 0023905.28W	MAPt
R27R	005	TF	HGM01	-	272° (271.85°)	-	-	130	505632.23N 0024608.03W	-
R27R	006	TF	HGM02	-	152° (151.87°)	LEFT	-	130	505305.32N 0024312.44W	-
R27R	007	TF	YVL	-	032° (031.85°)	LEFT	2000	140	505628.82N 0023951.93W	HOLD

Yeovil RNP RWY 27 - Instrument Approach Procedure via BIPMI

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27C	001	IF	BIPMI	-	272° (271.85°)	-	2300	180	505559.25N 0021908.40W	IAF
R27C	002	TF	HG27I	-	272° (271.85°)	-	2300	180	505605.05N 0022353.36W	IF 9.6NM
R27C	003	TF	HG27F	-	272° (271.85°)	-	2000	130	505612.81N 0023013.31W	FAF 5.6NM
R27C	004	TF	RW27	Y	272° (271.85°)	-	-	130	505623.64N 0023905.28W	MAPt
R27C	005	TF	HGM01	-	272° (271.85°)	-	-	130	505632.23N 0024608.03W	-
R27C	006	TF	HGM02	-	152° (151.87°)	LEFT	-	130	505305.32N 0024312.44W	-
R27C	007	TF	YVL	-	032° (031.85°)	LEFT	2000	140	505628.82N 0023951.93W	HOLD

Yeovil RNP RWY 27 - Instrument Approach Procedure via OSBIR

Designator	Sequence Number	Path Term-inator	Waypoint Name	Fly-over	Course/ Track °M (°T)	Turn Direction	Level Constraint	Speed Constraint	Co-ordinates	Remarks and Distance to MAPt
R27L	001	IF	OSBIR	-	002° (001.85°)	-	2600	180	505305.47N 0022402.56W	IAF
R27L	002	TF	HG27I	-	272° (271.85°)	LEFT	2300	180	505605.05N 0022353.36W	IF 9.6NM
R27L	003	TF	HG27F	-	272° (271.85°)	-	2000	130	505612.81N 0023013.31W	FAF 5.6NM
R27L	004	TF	RW27	Y	272° (271.85°)	-	-	130	505623.64N 0023905.28W	MAPt
R27L	005	TF	HGM01	-	272° (271.85°)	-	-	130	505632.23N 0024608.03W	-
R27L	006	TF	HGM02	-	152° (151.87°)	LEFT	-	130	505305.32N 0024312.44W	-
R27L	007	TF	YVL	-	032° (031.85°)	LEFT	2000	140	505628.82N 0023951.93W	HOLD

CHANGE (12/21): PAGE RENUMBERED.
AERO INFO DATE 30 JUL 21

AD 3 HELIPORTS
EGBC — CHELTENHAM HELIPORT

EGBC AD 3.1 HELIPORT LOCATION INDICATOR AND NAME

EGBC — CHELTENHAM HELIPORT

EGBC AD 3.2 HELIPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 515533N Long: 0020316W
2	Direction and distance from city	1 NM to the North of Cheltenham.
3	Elevation / Reference temperature / Mean Low Temperature	200 FT / 18 °C / -
4	Geoid undulation at AD ELEV PSN	160 FT
5	Magnetic Variation / Annual Change	0.66°E (2027) / 0.18°E
6	AD Administration Address Telephone E-mail address Web address	HELICOPTER AND AVIATION SERVICES LIMITED Hangar 11, Redhill Aerodrome, Redhill, Surrey, RH1 5JY. 01202-835385 (Administration) 01202-098013 (ATC) nick@helipad.co.uk (Ops) phil@helipad.co.uk (ATC) www.helipad.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Helicopter and Aviation Services Ltd on behalf of The Jockey Club.

EGBC AD 3.3 OPERATIONAL HOURS

1	Heliport Operator	1030-1900 (0930-1800). 1900-2000 (1800-1900) by arrangement; surcharge will apply. All flights PPR. Heliport not available 10 minutes prior to race start or whenever horses are on the course.
2	Customs and Immigration	By arrangement. Contact Aerodrome Licensee for details.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	Air Traffic Service	1030-1900 (0930-1800). 1900-2000 (1800-1900) by arrangement. ATC is provided for the annual Cheltenham Festival and Gold Cup Meeting. Other times Nil. Helicopter and Aviation Services Ltd will provide an ATC service when the heliport is licensed.
8	Fuelling	As heliport hours, when licensed. May be available for other events by arrangement.
9	Handling	Helicopter Aviation Services provide a passenger handling service for all flights. Helicopter operators undertaking shuttle flights must have a representative at the Heliport to co-ordinate their passengers.
10	Security	
11	De-icing	
12	Remarks	No flights permitted before 1030 hours or 10 minutes before the start of a race until 5 minutes after a race or at anytime when horses are on the course.

EGBC AD 3.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET-A1 rotors-running refuels when licensed. At other times, rotors stopped refueling may be available.
3	Fuelling facilities/capacity	
4	De-icing facilities	

5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	
7	Remarks	

EGBC AD 3.5 PASSENGER FACILITIES

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EGBC AD 3.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category H2 Category may be reduced to H1, pleasure flying level or nil for events when heliport is not licensed.
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGBC AD 3.7 SEASONAL AVAILABILITY - CLEARING

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EGBC AD 3.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron/ helicopter stands surface and strength	APRON Surface: Grass
2	Ground taxiway width, surface and designation	Taxiway TWY: Surface: Grass
3	Air taxiway width and designation	
4	Altimeter checkpoint location and elevation	
5	VOR checkpoints	
6	INS checkpoints	
7	Remarks	The surface of the heliport is not suitable for ground taxiing. Helicopters are required to air-taxi via the FATO. During periods of intense traffic helicopters may be required to air-taxi on the eastern side of the FATO in order to allow helicopters to pass each other; this may involve crossing and re-crossing the FATO when taxiing to and from fuel. 5 stands (18 M diameter) are marked by white circle edge markings.

EGBC AD 3.9 MARKINGS AND MARKERS

1	Final approach and take-off markings	FATO 13/31: Painted white corner markings, white edge markings with standard H in centre of FATO. FATO designation markers provided when licensed operations are taking place.
2	Taxiway, air taxiway and air transit route markers	
3	Remarks	Standard FATO markings. Stands marked by white circular edge markings.

EGBC AD 3.10 HELIPORT OBSTACLES

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EGBC AD 3.11 METEOROLOGICAL INFORMATION PROVIDED

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EGBC AD 3.12 HELIPORT DATA

1	Heliport type	Level surface.
2	TLOF dimensions	
3	FATO, GEO bearing	13: 131.63° 31: 311.63°
4	FATO dimensions and surface type	13/31: 230 M x 30 M Surface: Grass Undulating surface.
5	TLOF surface and bearing strength	TLOF Surface: Grass all stands are short grass.
6	Co-ordinates of geometric centre TLOF or threshold of FATO	FATO 13: 515534.85N 0020320.34W FATO 31: 515529.90N 0020311.33W TLOF TLOF: 515533.00N 0020315.70W
7	TLOF and/ or FATO elevation and slope	FATO 13: 203 FT FATO 31: 210 FT TLOF TLOF: 200 FT
8	Safety area dimensions	TLOF TLOF: 5 M x 0 M
9	Helicopter clearway dimensions	13: Clearway 400 M x 40 M 31: Clearway 160 M x 40 M
10	Obstacle-free sector	
11	Remarks	TLOF Dimensions: 5 stands (18 M diameter) are marked by white circle edge markings. Application is normally made for this heliport to be licensed for the Cheltenham Festival Meeting held in mid March. Details of any licensed operations carried out from this heliport will be advised by NOTAM.

EGBC AD 3.13 DECLARED DISTANCES

Declared distance	TODAH	RTODAH	LDAH	Remarks
1	**2**	**3**	**4**	**5**
13	230 M	230 M	230 M	
31	230 M	230 M	230 M	

EGBC AD 3.14 APPROACH AND FATO LIGHTING

1	Approach lighting system type, length, intensity	
2	Type of visual approach slope indicator system	
3	FATO area lighting characteristics and location	13: Portable LED green FATO lights. 31: Portable LED green FATO lights.
4	Aiming point lighting characteristics and location	
5	TLOF lighting system characteristics and location	TLOF: Edge Portable white edge lights.
6	Remarks	Portable white LED edge lights on Stands.

EGBC AD 3.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

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EGBC AD 3.16 AIR TRAFFIC SERVICES AIRSPACE

INTENTIONALLY BLANK

EGBC AD 3.17 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

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EGBC AD 3.18 RADIO NAVIGATION AND LANDING AIDS

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EGBC AD 3.19 LOCAL HELIPORT REGULATIONS

1 HELIPORT REGULATIONS

a) All operators will be required to provide an insurance indemnity in advance of landing at this helicopter aerodrome. This indemnity is in standard form and is available from Helicopter and Aviation Services Ltd.
b) Heliport is not normally available to helicopters unable to communicate by radio. Non-radio helicopters must obtain PPR from ATC.
c) Prior to using the Heliport pilots must obtain a briefing from Helicopter and Aviation Services Limited.
d) ATC permission is required for engine start.
e) Helicopters are not permitted to shutdown on stand. Pilots unable to disembark passengers rotors-running must inform the Heliport operator when obtaining PPR.

2 GROUND MOVEMENT

a) All manoeuvres, including hover and air taxiing require ATC permission.
b) The heliport surface is not suitable for ground taxiing.
c) The distance between stands does not permit hovering on adjacent stands.

3 WARNINGS

a) Intense traffic can be expected during the Cheltenham Gold Cup event. To accommodate this specific procedures have been designed these include:

   i. Non standard RTF phraseology and
   ii. Non standard ATC procedures. Pilots must be briefed on these procedures by the Licensee.

b) Use of the Heliport is subject to pilots complying with these procedures.
c) High ground rises to 1083 FT AMSL to the East of the aerodrome.

4 TRAINING

a) Use of the Heliport by training flights is subject to prior approval from the Licensee.

EGBC AD 3.20 NOISE ABATEMENT PROCEDURES

a) No movements are permitted whenever horses are on the racecourse.
b) All helicopters shall avoid overflying the grandstands, racecourse, car parks and residential properties around the Heliport.
c) The visual circuit patterns together with the arrival and departure routes form part of the noise abatement procedures. The Heliport Licensee requires strict compliance with these routings.

EGBC AD 3.21 FLIGHT PROCEDURES

1 GENERAL

a) All procedures are based on the Cheltenham QNH. ATC will provide the QFE when requested by pilots.
b) Pilots operating to/from the Heliport must follow the published routes and altitudes.

c) ATZ radius 2 NM 2000 FT AAL and Restricted Airspace (Temporary), radius 3 NM SFC - 3000 FT AMSL, are established for the duration of the Cheltenham Festival and Gold Cup Meeting. Details are published in NOTAM and AIC.

EGBC AD 3.22 ADDITIONAL INFORMATION

Not applicable

EGBC AD 3.23 CHARTS RELATED TO A HELIPORT

Figure: Heliport Chart - ICAO

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EGLW — LONDON HELIPORT

EGLW AD 3.1 HELIPORT LOCATION INDICATOR AND NAME

EGLW — LONDON HELIPORT

EGLW AD 3.2 HELIPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 512812N Long: 0001046W
2	Direction and distance from city	3 NM South West of Westminster Bridge.
3	Elevation / Reference temperature / Mean Low Temperature	18 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	149 FT
5	Magnetic Variation / Annual Change	1.32°E (2027) / 0.17°E
6	AD Administration Address Telephone Web address	THE LONDON HELIPORT LTD London Heliport, Lombard Road, Battersea, London, SW11 3BE. 020-7228 0181 (The London Heliport Ltd) www.londonheliport.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	Other types of traffic permitted: SVFR

EGLW AD 3.3 OPERATIONAL HOURS

1	Heliport Operator	Mon-Fri 0730-1930 (0630-1830); by arrangement 0700-0730 (0600-0630), 1930-2300 (1830-2200). Sat, Sun and PH 0800-1800 (0700-1700); by arrangement 0700-0800 (0600-0700), 1800-2300 (1700-2200).
2	Customs and Immigration	Available by prior arrangement.
3	Health and sanitation	
4	AIS Briefing Office	As heliport hours.
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	
7	Air Traffic Service	As heliport hours. See also AD 3.17.
8	Fuelling	As heliport hours
9	Handling	As heliport hours
10	Security	As heliport hours
11	De-icing	
12	Remarks	This heliport is PPR. See AD 3.19

EGLW AD 3.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	AVTUR JET A-1
3	Fuelling facilities/capacity	Overground tank. Total 20,000 LT.
4	De-icing facilities	
5	Hangar space for visiting aircraft	
6	Repair facilities for visiting aircraft	Limited.
7	Remarks	

EGLW AD 3.5 PASSENGER FACILITIES

1	Hotels	Adjacent.
2	Restaurants	Adjacent.
3	Transportation	Contact Operations.
4	Medical facilities	Defibrillator and trauma kit.
5	Bank and Post Office	
6	Tourist Office	

7	Remarks	

EGLW AD 3.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category H2 RFF Category H3 available on request. 24 hours notice required.
2	Rescue equipment	Co-ordination and safety of riverside incidents by tactical response.
3	Capability for removal of disabled aircraft	By arrangement.
4	Remarks	

EGLW AD 3.7 SEASONAL AVAILABILITY - CLEARING

1	Type of clearing equipment	Snow Ploughs, shovels. Anti-icing chemicals.
2	Clearance priorities	FATO, Taxiway, Apron.
3	Remarks	

EGLW AD 3.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron/ helicopter stands surface and strength	STAND 1 Surface: Macadam/Concrete STAND 2 Surface: Macadam STAND 3 Surface: Concrete STAND 4 Surface: Macadam
2	Ground taxiway width, surface and designation	Taxiway MAIN TAXIWAY: 20 M Surface: Concrete
3	Air taxiway width and designation	Taxiway AIR TAXIWAY: 20 M
4	Altimeter checkpoint location and elevation	Heliport reference point 18 FT
5	VOR checkpoints	
6	INS checkpoints	
7	Remarks	Stand 1 – TLOF/Stand: 19.98 M diameter. Stand 2 – TLOF/Stand: 19.98 M diameter. Stand 3 – TLOF/Stand: 19.98 M diameter. Stand 4 – TLOF/Stand: 25.04 M diameter. Not all stands may be used simultaneously.

EGLW AD 3.9 MARKINGS AND MARKERS

1	Final approach and take-off markings	FATO 02/20: Yellow circular TLOF/Aiming Point. White 'H' Heliport identification marking in centre of aiming point aligned to preferred final approach direction. White underlined '02' and '20' FATO designation markings. White '16t' Maximum Allowable Mass markings outside of aiming circle and offset to port side of each preferred final approach direction. All markings outlined in black (for definition).
2	Taxiway, air taxiway and air transit route markers	
3	Remarks	11.4 M diameter FATO Aiming Point. Aircraft with an overall length greater than 11.4 M, which are not obliged to operate to a licensed site, may use the heliport provided they are satisfied that the procedures in place allow them to operate safely, and for public transport operators, in compliance with their company operations manual.

EGLW AD 3.10 HELIPORT OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLW1027) 02/APPROACH 20/ TAKE-OFF	BUILDING	512751.20N 0001110.89W	188 FT	169 FT	No	
(EGLW1028) 02/APPROACH 20/ TAKE-OFF	BUILDING	512750.66N 0001110.74W	210 FT	191 FT	Yes Solid Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLW1189)	BUILDING	512939.16N 0001106.65W	295 FT	264 FT	No	
(EGLW1154)	CRANE	512921.19N 0000859.68W	362 FT	344 FT	Yes Solid Red	LHC004
(EGLW1153)	CRANE	512920.55N 0000859.85W	378 FT	361 FT	Yes Solid Red	LHC004
(EGLW1004)	AERIAL	512914.54N 0001159.11W	373 FT	357 FT	No	
(EGLW1152)	CRANE	512905.89N 0000912.75W	174 FT	164 FT	No	
(EGLW1151)	CRANE	512905.24N 0000915.49W	168 FT	164 FT	No	
(EGLW1003)	BUILDING	512859.64N 0001219.27W	191 FT	173 FT	No	
(EGLW1008)	STADIUM	512858.46N 0001135.78W	163 FT	149 FT	No	
(EGLW1163)	CHIMNEY	512856.69N 0000838.73W	348 FT	334 FT	No	
(EGLW1160)	CHIMNEY	512851.88N 0000840.14W	346 FT	331 FT	No	
(EGLW1129)	BUILDING	512851.70N 0001039.06W	209 FT	196 FT	No	
(EGLW1100)	BUILDING	512849.96N 0001042.55W	201 FT	187 FT	No	
(EGLW1258)	CRANE	512845.76N 0000846.00W	429 FT	415 FT	Yes Solid Red	
(EGLW1062)	CRANE	512841.81N 0001053.08W	310 FT	291 FT	Yes Solid Red	LHC0012
(EGLW1086)	CRANE	512841.57N 0001046.02W	291 FT	278 FT	Yes Solid Red	LHC0012
(EGLW1087)	BUILDING	512841.26N 0001045.77W	262 FT	251 FT	Yes Solid Red	
(EGLW1072)	CHIMNEY	512840.68N 0001050.63W	294 FT	287 FT	No	
(EGLW1057)	CHIMNEY	512839.36N 0001054.10W	292 FT	295 FT	No	
(EGLW1084)	BUILDING	512839.23N 0001046.23W	430 FT	420 FT	Yes Solid Red	
(EGLW1139)	BUILDING	512839.17N 0001030.28W	237 FT	216 FT	Yes Solid Red	
(EGLW1142)	AERIAL BUILDING	512835.99N 0001026.37W	226 FT	208 FT	No	
(EGLW1254)	CRANE	512835.39N 0001012.54W	254 FT	240 FT	Yes Solid Red	
(EGLW1144)	BUILDING	512835.04N 0001026.13W	212 FT	194 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLW1036)	BUILDING	512832.65N 0001103.31W	273 FT	251 FT	No	
(EGLW1075)	SPIRE	512829.14N 0001050.55W	292 FT	275 FT	No	
(EGLW1079)	BUILDING	512826.40N 0001049.85W	120 FT	102 FT	No	
(EGLW1015)	BUILDING	512826.27N 0001125.71W	188 FT	175 FT	No	
(EGLW1145)	SPIRE	512825.77N 0001022.47W	182 FT	169 FT	No	
(EGLW1064)	BUILDING	512823.65N 0001053.30W	163 FT	149 FT	No	
(EGLW1148)	BUILDING	512822.34N 0000940.30W	246 FT	233 FT	No	
(EGLW1131)	BUILDING	512819.68N 0001038.92W	317 FT	300 FT	Yes Solid Red	
(EGLW1140)	AERIAL	512815.51N 0001031.04W	240 FT	225 FT	No	
(EGLW1127)	BUILDING	512813.84N 0001041.53W	208 FT	194 FT	No	
(EGLW1117)	BUILDING	512813.10N 0001042.35W	201 FT	187 FT	No	
(EGLW1126)	BUILDING	512813.09N 0001041.70W	210 FT	195 FT	No	
(EGLW1227)	CRANE	512812.93N 0001101.53W	324 FT	311 FT	Yes Solid Red	LHC006
(EGLW1134)	CRANE	512812.67N 0001033.45W	208 FT	193 FT	Yes Solid Red	LHC008
(EGLW1049)	BUILDING	512812.02N 0001100.13W	122 FT	108 FT	No	
(EGLW1097)	BUILDING	512809.55N 0001044.83W	177 FT	163 FT	Yes Solid Red	
(EGLW1046)	BUILDING	512809.47N 0001100.68W	132 FT	110 FT	No	
(EGLW1103)	BUILDING	512808.98N 0001044.04W	194 FT	180 FT	Yes Solid Red	
(EGLW1088)	BUILDING	512808.68N 0001046.76W	141 FT	130 FT	No	
(EGLW1133)	CRANE	512807.41N 0001036.21W	309 FT	295 FT	Yes Solid Red	LHC007
(EGLW1128)	BUILDING	512807.03N 0001041.44W	202 FT	187 FT	No	
(EGLW1040)	BUILDING	512806.49N 0001102.10W	119 FT	104 FT	No	
(EGLW1016)	AERIAL	512805.35N 0001123.30W	218 FT	202 FT	No	
(EGLW1034)	BUILDING	512803.02N 0001106.03W	146 FT	130 FT	No	
(EGLW1031)	BUILDING	512800.73N 0001108.62W	188 FT	177 FT	No	
(EGLW1077)	BUILDING	512759.94N 0001051.30W	184 FT	167 FT	Yes Solid Red	
(EGLW1089)	BUILDING	512759.92N 0001047.08W	292 FT	270 FT	Yes Solid Red	
(EGLW1136)	AERIAL	512756.76N 0001033.80W	241 FT	226 FT	No	
(EGLW1002)	BUILDING	512754.87N 0001247.61W	210 FT	187 FT	No	
(EGLW1146)	BUILDING	512754.62N 0001021.97W	267 FT	251 FT	No	
(EGLW1216)	CRANE	512754.47N 0001136.52W	180 FT	164 FT	Yes Solid Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGLW1053)	BUILDING	512753.23N 0001059.17W	203 FT	185 FT	Yes Solid Red	
(EGLW1027) 02/APPROACH 20/ TAKE-OFF	BUILDING	512751.20N 0001110.89W	188 FT	169 FT	No	
(EGLW1033)	BUILDING	512750.67N 0001106.73W	200 FT	182 FT	Yes Solid Red	
(EGLW1028) 02/APPROACH 20/ TAKE-OFF	BUILDING	512750.66N 0001110.74W	210 FT	191 FT	Yes Solid Red	
(EGLW1013)	LAMP POST	512747.23N 0001131.29W	121 FT	113 FT	No	
(EGLW1009)	AERIAL	512745.05N 0001137.64W	129 FT	110 FT	No	
(EGLW1005)	BUILDING	512744.23N 0001148.40W	201 FT	175 FT	No	
(EGLW1214)	BUILDING	512741.96N 0001145.11W	246 FT	223 FT	No	
(EGLW1168)	SPIRE	512741.67N 0000814.20W	240 FT	164 FT	No	
(EGLW1225)	CRANE	512741.37N 0001117.13W	362 FT	336 FT	Yes Solid Red	
(EGLW1218)	CRANE	512741.32N 0001129.44W	389 FT	369 FT	Yes Solid Red	
(EGLW1183)	BUILDING	512735.94N 0001251.37W	187 FT	127 FT	No	
(EGLW1014)	BUILDING	512721.63N 0001130.00W	304 FT	282 FT	No	
(EGLW1011)	BUILDING	512713.86N 0001135.08W	314 FT	293 FT	No	
(EGLW1083)	TV AERIAL	512703.16N 0001051.13W	136 FT	51 FT	No	

EGLW AD 3.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE HEATHROW
2	Hours of service MET Office outside hour	As per operational hours.
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	F214 UK Forecast Spot winds. F215 UK Low Level Forecast.
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	Local Observations available during AD hours.

EGLW AD 3.12 HELIPORT DATA

1	Heliport type	Surface Level or Elevated depending on tidal state of River Thames (see AD 3.12.11 Remarks below).
2	TLOF dimensions	02: 37.97 M x 16 M 20: 37.97 M x 16 M
3	FATO, GEO bearing	02: 023.31° 20: 203.31°

4	FATO dimensions and surface type	02/20: 37.97 M x 16 M Surface: Concrete 11.4 M diameter.
5	TLOF surface and bearing strength	02 Surface: Concrete Platform. 16,330 KG. 20 Surface: Concrete Platform. 16,330 KG.
6	Co-ordinates of geometric centre TLOF or threshold of FATO	FATO 02: 512811.19N 0001046.73W FATO 20: 512812.32N 0001045.95W TLOF 02: 512811.19N 0001046.73W, 149 FT TLOF 20: 512812.32N 0001045.95W, 149 FT
7	TLOF and/ or FATO elevation and slope	FATO 02: 18 FT FATO 20: 18 FT TLOF 02: 18 FT TLOF 20: 18 FT
8	Safety area dimensions	TLOF 02: 38 M x 16 M TLOF 20: 38 M x 16 M
9	Helicopter clearway dimensions	02: Clearway River Thames
10	Obstacle-free sector	River Thames
11	Remarks	Tidal range of River Thames up to 7 M means heliport is 'elevated' for the majority of permitted operational hours (see Port of London Authority website (www.pla.co.uk) for Tide Tables and refer to entry for 'Chelsea' for local predicted tide states). Operators should ensure that they comply with the requirements for operating to an elevated heliport and, where appropriate, have been granted an approval by the competent aviation authority to do so.

EGLW AD 3.13 DECLARED DISTANCES

Declared distance	TODAH	RTODAH	LDAH	Remarks
1	**2**	**3**	**4**	**5**
02	38 M	38 M	38 M	
20	38 M	38 M	38 M	

EGLW AD 3.14 APPROACH AND FATO LIGHTING

1	Approach lighting system type, length, intensity	
2	Type of visual approach slope indicator system	
3	FATO area lighting characteristics and location	02: White variable intensity perimeter lights (3 stage intensity). 20: White variable intensity perimeter lights (3 stage intensity).
4	Aiming point lighting characteristics and location	02: Aiming point 512811.75N 0001046.34W. Soft sodium floodlighting. 20: Aiming point 512811.75N 0001046.34W. Soft sodium floodlighting.
5	TLOF lighting system characteristics and location	02: Aiming point Soft sodium floodlighting.
6	Remarks	

EGLW AD 3.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Heliport BCN location, characteristics and hours of operation	
2	WDI location and lighting	Anemometer: Anemometer: 512812.06N 0001044.76W (unlit). Anemometer/ Windsock: 512810.02N 0001046.15W (Illuminated Windsock with continuous red omni-directional obstruction light to mast).
3	TWY edge and centre line lighting	EDGE: Blue variable intensity TWY edge lights (3 stage intensity).

4	Secondary power supply/switch-over time	
5	Remarks	

EGLW AD 3.16 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
LONDON HELIPORT ATZ A circle, 2 NM radius, centred at 512812N 0001046W	Upper limit: 2000 FT AGL Lower limit: SFC	D	BATTERSEA TOWER English			Local Flying Area see EGLW AD 3.21, paragraph 5. Within the London CTR. Vertical limits: See AD 3-EGLW-4-1 for maximum operating heights.

EGLW AD 3.17 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
TWR	BATTERSEA TOWER	134.280 DOC 10 NM/3,000 FT.			Mon-Fri 0730-1930 (0630-1830); by arrangement 0700-0730 (0600-0630), 1930-2300 (1830-2200). Sat, Sun and PH 0800-1800 (0700-1700); by arrangement 0700-0800 (0600-0700), 1800-2300 (1700-2200).	ATZ hours co-incident with TWR hours.

EGLW AD 3.18 RADIO NAVIGATION AND LANDING AIDS

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EGLW AD 3.19 LOCAL HELIPORT REGULATIONS

1 HELIPORT REGULATIONS

a) The heliport is PPR only. Requests for landing must be made only by owners and operators to the operations department (not ATC).
b) All pilots must have conducted a familiarisation flight with an approved pilot and have signed acceptance of the heliport's arrangements and conditions of use, be familiar with marshalling signals at SERA Appendix 1, and comply with them. If unable to comply, stop, hold position and advise ATC. An alternative course of action will be offered.
c) The flight platform is to be used for all arrivals and departures. The take-off climb and approach surfaces are off-set by 15° away from the shoreline.
d) Aircraft must not overfly shipping that is within 100 M of the flight platform.
e) ATC permission required to start and shut down rotors.

2 GROUND MOVEMENT

a) ATC permission required for all manoeuvres including taxi and hover.
b) Taxi speeds should be kept at a minimum due to downwash.

3 WARNINGS

a) Aircrew should exercise caution within the circuit and on approaches and climb outs due to:

i. Turbulence - Associated with strong winds & tall buildings;
ii. Cranes - Continuing redevelopment of land in the vicinity of the heliport changing the built environment;
iii. Birds - Various species are attracted to the local river environment.

4 TRAINING

a) Flights for the purpose of flying training are not permitted at the heliport.

EGLW AD 3.20 NOISE ABATEMENT PROCEDURES

a) All approaches and departures over the river.
b) No manoeuvres other than actual approach and take-off may be carried out below 500 ft agl.
c) Maintain circuit height until descending to land, after departure, climb to circuit height as soon as possible.

EGLW AD 3.21 FLIGHT PROCEDURES

1 WEATHER MINIMA

a) For inbound and departing helicopters, the weather minima for the London Heliport are a reported Heliport meteorological visibility of 1000 M or greater and a cloud ceiling of 600 FT AGL or greater.
b) Inbound and departure routeings via the Local Flying Area require a minimum flight visibility of 3 KM. When the flight visibility is less than 3 KM, helicopters may access the Heliport via the helicopter routes provided that the flight visibility and Heliport meteorological visibility are at least 1000 M.

2 PROCEDURES WITHIN THE LONDON CTR AND LONDON CITY CTR

a) See EGLL AD 2.22 for details of helicopter procedures within the London CTR and London City CTR.

3 CIRCUITS

a) Circuit height is 1000 FT AMSL.
b) The traffic circuit is a non-standard shape. The circuit is established over the River Thames, between Chelsea Bridge and Putney Railway Bridge. Crosswind and base legs are reduced to turns, which should be made, as far as practicable, over the river and above 500 FT AGL.
c) Circuit pattern follows the course of the river as shown on the diagram on page AD 3-EGLW-4-1. The circuit may be extended at the discretion of ATC only. Circuit must not extend west of Putney Railway Bridge or east of Chelsea Bridge.
d) Do not fly above 1000 FT AMSL unless instructed by ATC.

4 ARRIVALS/DEPARTURES

a) Inbound aircraft **MUST** establish radio contact with Battersea Tower before entering the Local Flying Area, advising total number of people on board and fuelling requirements on first contact with ATC.
b) Aircraft inbound or outbound on direct tracks must comply with altitude restrictions as shown on the diagram on page AD 3-EGLW-4-1.

5 LONDON HELIPORT LOCAL FLYING AREA

a) The airspace forming that part of the London CTR and London City CTR up to 1300 FT AMSL bounded by: 512054N 0001200W - 512657N 0001317W - thence clockwise by an arc of a circle radius 2 NM centred on 512812N 0001046W (Heliport) to 512706N 0000806W - thence clockwise by an arc of a circle radius 12 NM centred on 512812N 0002713W (Heathrow Airport) to 512054N 0001200W.

Note 1: *Pilots must remain outside Restricted Areas R157 and R158 unless in possession of an Enhanced Non-Standard Flight approval as detailed at ENR 1.1 para 4.1.6.*

Note 2: *Due to the restrictions on single engine helicopters over London, inbound and outbound routings via the LFA are only available to multi-engine helicopters.*

b) **Subject to ATC Clearance from Battersea Tower**, VFR or Special VFR flights may take place subject to the following conditions:

i. Aircraft to remain below cloud with the surface in sight;
ii. Maximum altitude: VFR 1300 FT QNH; SVFR 1000 FT QNH;
iii. Minimum flight visibility: 3 KM.

Note 1: *In addition to paragraph (b), VFR flights must also comply with the VMC minima for Class D airspace detailed at ENR 1.2.*

Note 2: *Aircraft unable to operate VFR may operate Special VFR within the LFA subject to the conditions in paragraph (b) and the requirements for Special VFR flights detailed at ENR 1.2.*

c) RTF Communication

i. Pilots must obtain an ATC clearance from Battersea Tower prior to entering the LFA.

ii. Due to the frequency DOC restrictions, pilots should only call Battersea Tower for entry clearance when south of the London CTR and London City CTR and within 10 NM of the heliport.
iii. In the event that R/T contact with Battersea Tower cannot be established, pilots must contact Heathrow Radar on 125.625 MHz.
iv. Pilots must accurately observe the LFA boundaries, particularly in the vicinity of Banstead due to helicopters entering and leaving the London CTR via helicopter route H7 under the control of Heathrow Radar.
v. Pilots routing via the LFA will be instructed by Battersea Tower to squawk the heliport conspicuity SSR code **7077** and must also select **Altitude Mode**.
vi. Pilots are requested to report when they are visual with other traffic to Battersea Tower as soon as possible in order to expedite traffic flows.
vii. Battersea Tower may be unaware of traffic within controlled airspace or outside controlled airspace that is operating immediately adjacent to the LFA, and neither traffic information nor separation will be provided on/from such traffic. Pilots are reminded to be vigilant with respect to such traffic when leaving the LFA.
viii. Pilots must report leaving controlled airspace and must report leaving the Battersea Tower frequency before passing 10 NM from the heliport.

6 COMMUNICATIONS FAILURE

a) Inbound aircraft experiencing radio failure should hold on the north bank of the river and await light signals from the tower.

7 ATC PROCEDURES

a) ATC may instruct aircraft to fly to the north or south side of the river in order to be separated from traffic on the opposite side of the river. Aircraft may deviate from the centre of the river as far as required providing the requirements of SERA.3105 Minimum Heights and SERA.5005 Visual Flight Rules can be complied with. If unable or unwilling to accept this form of separation, advise ATC immediately.
b) Aircraft overflying the heliport must comply with the published route altitudes.

EGLW AD 3.22 ADDITIONAL INFORMATION

Not applicable.

EGLW AD 3.23 CHARTS RELATED TO A HELIPORT

HELICOPTER CHART - ICAO
AD 3.EGLW-2-1
LONDON HELIPORT INBOUND/OUTBOUND FLIGHT PROCEDURES CHART
AD 3.EGLW-4-1

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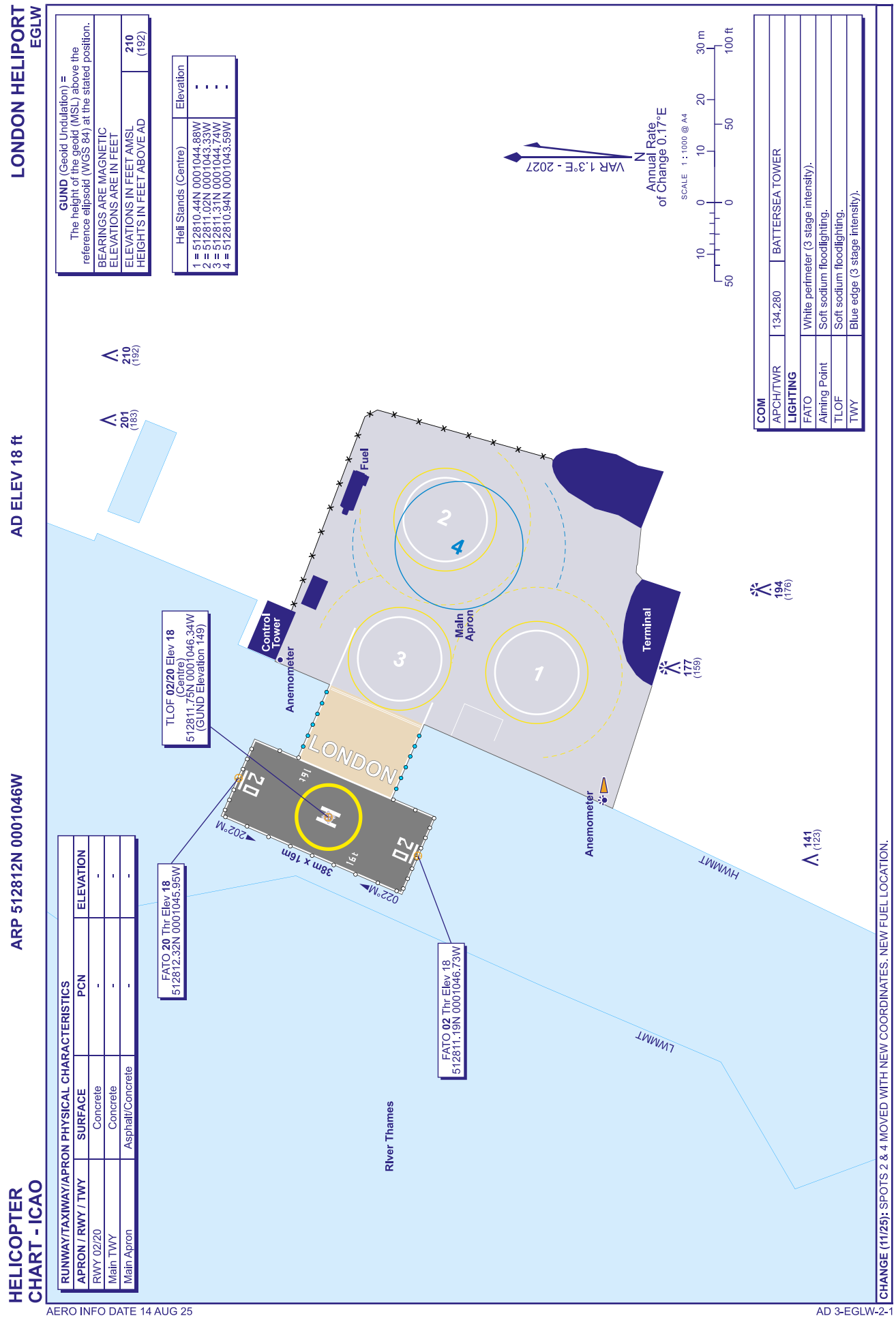
LONDON HELIPORT
EGLW
AD ELEV 18 ft
ARP 512812N 0001046W
HELICOPTER CHART - ICAO
GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS ARE IN FEET
ELEVATIONS IN FEET AMSL 210 (192)
HEIGHTS IN FEET ABOVE AD
Heli Stands (Centre) Elevation
1 = 512810.44N 0001044.88W - - -
2 = 512811.02N 0001043.33W - - -
3 = 512811.31N 0001044.74W - - -
4 = 512810.94N 0001043.59W - - -
VAR 1.3°E - 2027
N
Annual Rate of Change 0.17°E
SCALE 1 : 1000 @ A4
10 0 10 20 30 m
50 0 50 100 ft
COM
APCH/TWR 134.280 BATTERSEA TOWER
LIGHTING
FATO White perimeter (3 stage intensity).
Aiming Point Soft sodium floodlighting.
TLOF Soft sodium floodlighting.
TWY Blue edge (3 stage intensity).
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
APRON / RWY / TWY SURFACE PCN ELEVATION
RWY 02/20 Concrete - -
Main TWY Concrete - -
Main Apron Asphalt/Concrete - -
TLOF 02/20 Elev 18 (Centre) 512811.75N 0001046.34W (GUND Elevation 149)
FATO 20 Thr Elev 18 512812.32N 0001045.95W
FATO 02 Thr Elev 18 512811.19N 0001046.73W
38m x 16m
202°M
022°M
LONDON
Control Tower
Anemometer
Fuel
Main Apron
Terminal
Anemometer
River Thames
HWMMT
LWMMT
210 (192)
201 (183)
194 (176)
177 (159)
141 (123)
CHANGE (11/25): SPOTS 2 & 4 MOVED WITH NEW COORDINATES. NEW FUEL LOCATION.
AERO INFO DATE 14 AUG 25
AD 3-EGLW-2-1

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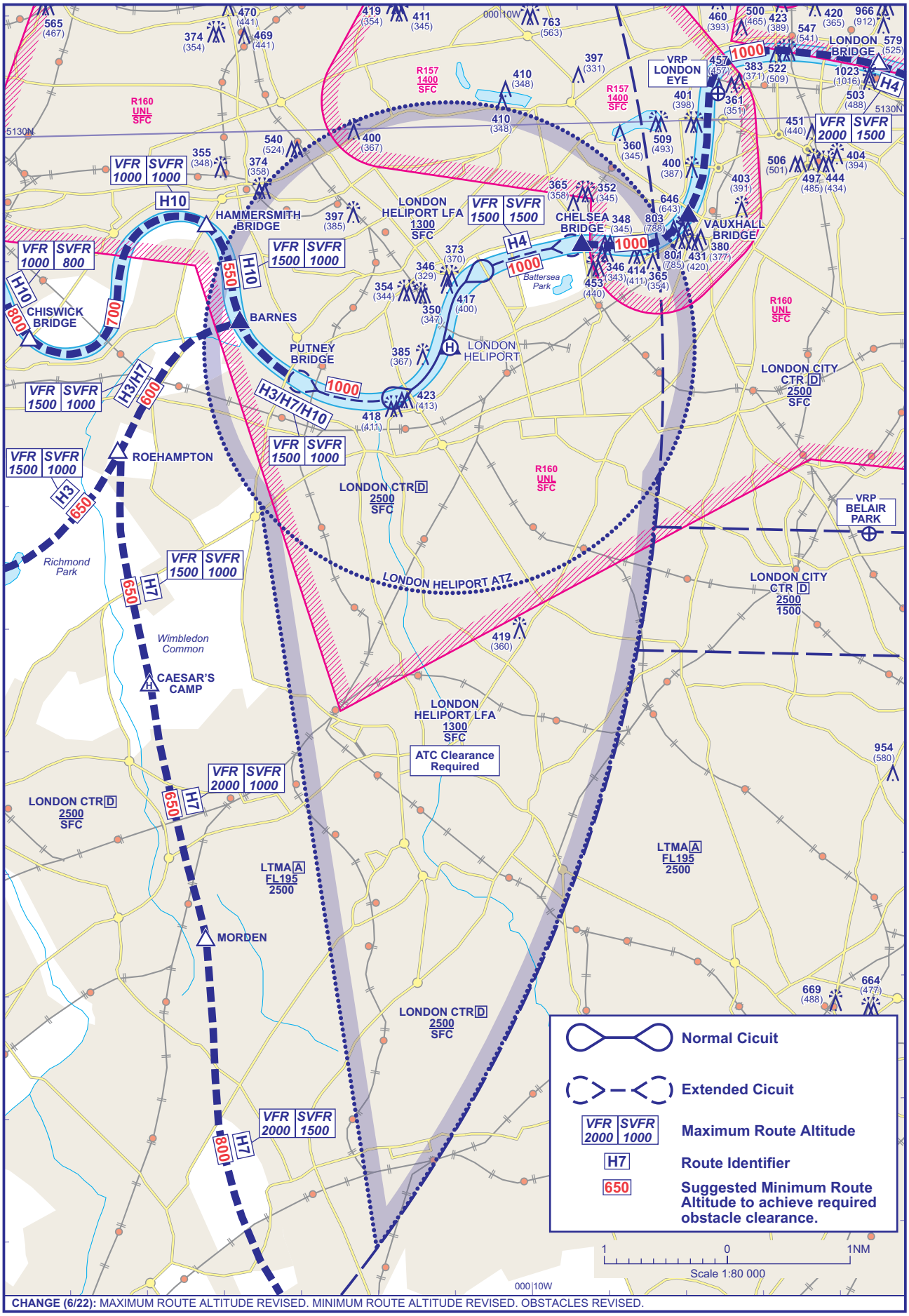
LONDON HELIPORT INBOUND/OUTBOUND FLIGHT PROCEDURES



CHANGE (6/22): MAXIMUM ROUTE ALTITUDE REVISED. MINIMUM ROUTE ALTITUDE REVISED. OBSTACLES REVISED.

AERO INFO DATE 11 APR 22

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EGHK — PENZANCE HELIPORT

EGHK AD 3.1 HELIPORT LOCATION INDICATOR AND NAME

EGHK — PENZANCE HELIPORT

EGHK AD 3.2 HELIPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 500750N Long: 0053044W
2	Direction and distance from city	1 NM NE of Penzance Town.
3	Elevation / Reference temperature / Mean Low Temperature	21 FT / 16.5 °C / -
4	Geoid undulation at AD ELEV PSN	175 FT
5	Magnetic Variation / Annual Change	0.34°W (2027) / 0.18°E
6	AD Administration Address Telephone E-mail address Web address	PENZANCE HELIPORT Jelbert Way, Long Rock, Penzance TR18 3FL. 01736-780828 (Heliport). pnzops@starspeed.co.uk www.penzanceheliport.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGHK AD 3.3 OPERATIONAL HOURS

1	Heliport Operator	Mon-Sat 0800-1700 (0730-1830).
2	Customs and Immigration	
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As Heliport hours. Self briefing.
7	Air Traffic Service	
8	Fuelling	As Heliport hours.
9	Handling	As Heliport hours.
10	Security	During public transport operations and by arrangement.
11	De-icing	
12	Remarks	Certain flights not requiring Licensed facilities may operate during daylight hours strictly by prior arrangement.

EGHK AD 3.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	JET A-1
3	Fuelling facilities/capacity	Gravity refueling only.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Strictly by prior arrangement.
6	Repair facilities for visiting aircraft	
7	Remarks	

EGHK AD 3.5 PASSENGER FACILITIES

1	Hotels	Penzance Town.
2	Restaurants	Penzance Town.
3	Transportation	Shuttle bus available during AD hours to Penzance Railway Station.
4	Medical facilities	Basic first aid.
5	Bank and Post Office	Numerous in Penzance Town.
6	Tourist Office	Penzance Tourist Information Centre, Penzance Town.

7	Remarks	

EGHK AD 3.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category H2
2	Rescue equipment	
3	Capability for removal of disabled aircraft	
4	Remarks	

EGHK AD 3.7 SEASONAL AVAILABILITY - CLEARING

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EGHK AD 3.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron/ helicopter stands surface and strength	APRON Surface: Concrete
2	Ground taxiway width, surface and designation	
3	Air taxiway width and designation	
4	Altimeter checkpoint location and elevation	
5	VOR checkpoints	
6	INS checkpoints	
7	Remarks	

EGHK AD 3.9 MARKINGS AND MARKERS

1	Final approach and take-off markings	TLOF MAIN: Yellow circular TLOF/Aiming Point. White 'H' Heliport identification marking in centre of aiming point aligned to preferred final approach direction. SECONDARY: Delineated by white corner markers.
2	Taxiway, air taxiway and air transit route markers	
3	Remarks	

EGHK AD 3.10 HELIPORT OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHK1182) 26/APPROACH 08/ TAKE-OFF	TREE	500751.41N 0053039.95W	52 FT	29 FT	No	
(EGHK1183) 26/APPROACH 08/ TAKE-OFF	TREE	500751.08N 0053039.81W	51 FT	30 FT	No	
(EGHK1109) 08/APPROACH 26/ TAKE-OFF	FENCE	500749.66N 0053053.85W	34 FT	4 FT	No	
(EGHK1092) 08/APPROACH 26/ TAKE-OFF	WINDSOCK	500749.34N 0053057.37W	51 FT	20 FT	No	
(EGHK1073) 08/APPROACH 26/ TAKE-OFF	TREE	500747.68N 0053100.47W	51 FT	31 FT	No	
(EGHK1068) 08/APPROACH 26/ TAKE-OFF	TREE	500747.48N 0053102.38W	61 FT	42 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHK1234)	NATURAL_HIGHPOINT	500919.07N 0053009.54W	415 FT		No	
(EGHK1035)	TREES	500907.49N 0053120.61W	574 FT	47 FT	No	
(EGHK1024)	NATURAL_HIGHPOINT	500907.33N 0053136.71W	509 FT		No	
(EGHK1212)	NATURAL_HIGHPOINT	500905.73N 0053030.59W	472 FT		No	
(EGHK1251)	PYLON	500902.11N 0052908.30W	295 FT	85 FT	No	
(EGHK1247)	PYLON	500902.08N 0052918.55W	291 FT	92 FT	No	
(EGHK1239)	PYLON	500902.06N 0052939.91W	349 FT	89 FT	No	
(EGHK1017)	NATURAL_HIGHPOINT	500856.30N 0053203.18W	344 FT		No	
(EGHK1236)	BUILDING	500847.38N 0053001.35W	361 FT	16 FT	No	
(EGHK1007)	NATURAL_HIGHPOINT	500846.83N 0053238.98W	443 FT		No	
(EGHK1226)	NATURAL_HIGHPOINT	500846.26N 0053018.88W	380 FT		No	
(EGHK1241)	NATURAL_HIGHPOINT	500844.07N 0052936.87W	323 FT		No	
(EGHK1051)	NATURAL_HIGHPOINT	500842.09N 0053113.31W	457 FT		No	
(EGHK1243)	CHURCH	500841.55N 0052935.99W	344 FT	86 FT	No	
(EGHK1220)	NATURAL_HIGHPOINT	500839.08N 0053022.75W	367 FT		No	
(EGHK1242)	TREE	500838.21N 0052936.19W	314 FT	74 FT	No	
(EGHK1021)	NATURAL_HIGHPOINT	500835.85N 0053151.23W	312 FT		No	
(EGHK1009)	NATURAL_HIGHPOINT	500832.57N 0053224.60W	377 FT		No	
(EGHK1250)	BUILDING	500828.78N 0052908.82W	129 FT	13 FT	No	
(EGHK1218)	TREE	500826.65N 0053022.94W	346 FT	63 FT	No	
(EGHK1003)	NATURAL_HIGHPOINT	500825.23N 0053256.56W	436 FT		No	
(EGHK1217)	TREE	500822.46N 0053024.99W	307 FT	65 FT	No	
(EGHK1208)	TREE	500821.86N 0053029.91W	293 FT	71 FT	No	
(EGHK1228)	NATURAL_HIGHPOINT	500821.39N 0053015.33W	219 FT		No	
(EGHK1240)	NATURAL_HIGHPOINT	500821.09N 0052936.75W	188 FT		No	
(EGHK1231)	TREE	500818.24N 0053011.11W	189 FT	36 FT	No	
(EGHK1207)	TREE	500817.25N 0053030.17W	240 FT	64 FT	No	
(EGHK1172)	TREE	500816.49N 0053043.46W	266 FT	36 FT	No	
(EGHK1213)	TREE	500816.43N 0053026.69W	181 FT	57 FT	No	
(EGHK1257)	WOOD	500815.62N 0052833.46W	137 FT	48 FT	No	
(EGHK1013)	ELECTRIC POLE	500814.86N 0053213.06W	294 FT	55 FT	Yes	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHK1026)	TREE	500813.95N 0053130.37W	335 FT	52 FT	No	
(EGHK1225)	TREE	500812.63N 0053017.57W	134 FT	44 FT	No	
(EGHK1230)	TREE	500811.94N 0053010.80W	125 FT	43 FT	No	
(EGHK1110)	TREE	500811.64N 0053055.44W	294 FT	44 FT	No	
(EGHK1025)	TREE	500809.52N 0053132.12W	304 FT	68 FT	No	
(EGHK1184)	TREE	500807.97N 0053040.92W	218 FT	30 FT	No	
(EGHK1023)	TREE	500806.97N 0053133.47W	286 FT	84 FT	No	
(EGHK1190)	ELECTRIC POLE	500806.65N 0053038.31W	192 FT	25 FT	No	
(EGHK1170)	TREE	500805.02N 0053042.75W	217 FT	25 FT	No	
(EGHK1042)	BUSH	500804.67N 0053113.44W	243 FT	27 FT	No	
(EGHK1041)	WATER_TOWER	500759.91N 0053113.17W	171 FT	28 FT	Yes	
(EGHK1248)	TREE	500759.37N 0052912.73W	140 FT	107 FT	No	
(EGHK1147)	TREE	500758.55N 0053047.64W	142 FT	38 FT	No	
(EGHK1249)	TREE	500758.37N 0052912.02W	137 FT	105 FT	No	
(EGHK1263)	NATURAL_HIGHPOINT	500757.32N 0052812.42W	188 FT		No	
(EGHK1006)	WOOD	500757.01N 0053238.91W	374 FT	107 FT	No	
(EGHK1032)	CHURCH	500756.65N 0053116.66W	169 FT	80 FT	No	
(EGHK1261)	TREE	500755.31N 0052820.47W	215 FT	22 FT	No	
(EGHK1027)	TREE	500754.76N 0053125.29W	161 FT	83 FT	No	
(EGHK1259)	NATURAL_HIGHPOINT	500749.80N 0052823.76W	191 FT		No	
(EGHK1014)	MAST	500749.71N 0053203.18W	261 FT	49 FT	No	
(EGHK1260)	NATURAL_HIGHPOINT	500739.45N 0052819.91W	209 FT		No	
(EGHK1016)	TREE	500735.09N 0053157.35W	194 FT	68 FT	No	
(EGHK1258)	TREE	500733.58N 0052827.44W	214 FT	122 FT	No	
(EGHK1019)	TREE	500731.38N 0053155.31W	231 FT	67 FT	No	
(EGHK1018)	TREE	500729.29N 0053156.05W	226 FT	74 FT	No	
(EGHK1262)	NATURAL_HIGHPOINT	500728.98N 0052816.72W	176 FT		No	
(EGHK1005)	WIND TURBINE	500728.72N 0053242.32W	353 FT	141 FT	No	
(EGHK1008)	AERIAL	500717.30N 0053224.68W	239 FT	87 FT	No	
(EGHK1010)	BUILDING	500715.35N 0053218.75W	163 FT	26 FT	No	
(EGHK1011)	BUILDING	500714.63N 0053218.33W	187 FT	50 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHK1004)	TREE	500711.29N 0053250.38W	182 FT	25 FT	No	
(EGHK1002)	BUILDING	500709.35N 0053253.48W	182 FT	27 FT	No	
(EGHK1012)	DOME	500707.38N 0053213.16W	190 FT	92 FT	No	
(EGHK1015)	CHURCH	500659.34N 0053159.45W	180 FT	117 FT	No	
(EGHK1252)	FLAG	500659.23N 0052841.28W	283 FT	184 FT	Yes	

EGHK AD 3.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	H24
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self-briefing.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	Printed METAR/TAF/Charts available.
8	Supplementary equipment available for providing information	Skyview Met System.
9	ATS units provided with information	PENZANCE HELIPORT
10	Additional information (limitation of service, etc.)	No ATZ. No AD METAR or TAF available.

EGHK AD 3.12 HELIPORT DATA

1	Heliport type	Level surface.
2	TLOF dimensions	MAIN: 20 M x 20 M SECONDARY: 20 M x 20 M
3	FATO, GEO bearing	08: 080.19° 26: 260.19°
4	FATO dimensions and surface type	FATO: 20 M x 20 M Surface: Concrete
5	TLOF surface and bearing strength	MAIN Surface: Concrete SECONDARY Surface: . Reinforced grass surface.
6	Co-ordinates of geometric centre TLOF or threshold of FATO	FATO 08: 500749.34N 0053050.73W FATO 26: 500749.45N 0053049.74W TLOF MAIN: 500749.39N 0053050.24W TLOF SECONDARY: 500750.13N 0053043.79W
7	TLOF and/ or FATO elevation and slope	FATO 08: 21 FT FATO 26: 21 FT TLOF MAIN: 21 FT TLOF SECONDARY: 21 FT
8	Safety area dimensions	TLOF MAIN: 28 M x 28 M
9	Helicopter clearway dimensions	
10	Obstacle-free sector	
11	Remarks	

EGHK AD 3.13 DECLARED DISTANCES

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EGHK AD 3.14 APPROACH AND FATO LIGHTING

1	Approach lighting system type, length, intensity	
2	Type of visual approach slope indicator system	
3	FATO area lighting characteristics and location	
4	Aiming point lighting characteristics and location	
5	TLOF lighting system characteristics and location	MAIN: Edge Green Omni-Directional.
6	Remarks	

EGHK AD 3.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Heliport BCN location, characteristics and hours of operation	
2	WDI location and lighting	Anemometer: Mast situated at 500751.6483N 0053047.8796W. Mast is lit with a solid red obstruction light.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGHK AD 3.16 AIR TRAFFIC SERVICES AIRSPACE

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EGHK AD 3.17 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	PENZANCE RADIO	120.060 A/G frequency.			Mon-Sat 0800-1700 (0730-1830).	

EGHK AD 3.18 RADIO NAVIGATION AND LANDING AIDS

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EGHK AD 3.19 LOCAL HELIPORT REGULATIONS

1 GROUND MOVEMENT

a) Helicopters may not be ground taxied. Movements between the hangar, apron and helipads are to be carried out by towing.

2 HELIPORT OPERATIONS

a) Helicopters will primarily be operated on the Scheduled Service to/from the Isles of Scilly by Starspeed Ltd. Other flights may be carried out for maintenance, positioning or by emergency services helicopters on a strictly PPR basis. All visiting pilots are to obtain a verbal briefing (Telephone) from Penzance Heliport Operations 01736-780950 on the flight paths required to conform with the Heliport Local Authority Planning Conditions.

3 TRAINING

a) Company helicopter training flights may be carried out in addition to the Scheduled Service.

EGHK AD 3.20 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) Pilots are to avoid overflight of all local built-up areas as far as possible and are only to approach the heliport from the south over Mount's Bay. Departures from Penzance Heliport should be routed over the sea, as soon as practicable after take-off.

EGHK AD 3.21 FLIGHT PROCEDURES

1 ARRIVING AND DEPARTING

a) Land's End Radio Mandatory Zone (RMZ). See EGHC AD 2.17 & AD 2.22.
b) Helicopters are to avoid Marazion Nature Reserve (2 NM to the East) and Penzance Town (2 NM to the West) before routing over the sea to approach Penzance Heliport. The village of Longrock and St Michael's Mount should not be overflown.
c) Outbound aircraft are to conform to departure flight paths briefed to visiting pilots by Penzance Heliport Operations. All departures are to be routed over the sea, as soon as practicable after take-off.

2 CIRCUIT PROCEDURES

a) Circuits are to be flown to the south of the Heliport only.

3 VFR AND SPECIAL VFR FLIGHTS

a) All flights are to be conducted under VFR.

EGHK AD 3.22 ADDITIONAL INFORMATION

Not applicable.

EGHK AD 3.23 CHARTS RELATED TO A HELIPORT

HELICOPTER CHART - ICAO
AD 3.EGHK-2-1

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HELICOPTER CHART - ICAO

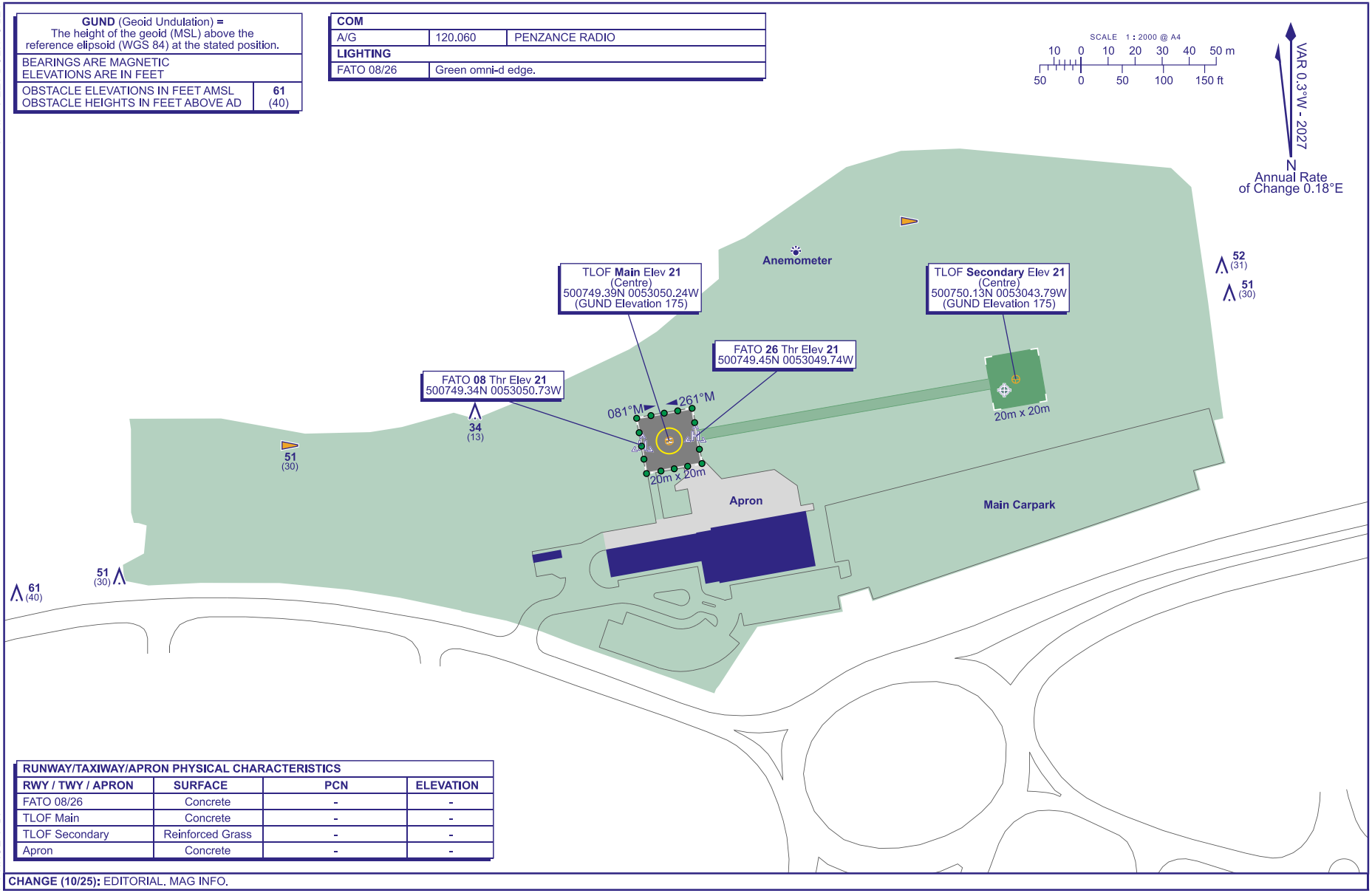
ARP 500750N 0053044W

AD ELEV 21 ft

PENZANCE HELIPORT
EGHK

GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference elipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS ARE IN FEET	
OBSTACLE ELEVATIONS IN FEET AMSL OBSTACLE HEIGHTS IN FEET ABOVE AD	**61** (40)

COM		
A/G	120.060	PENZANCE RADIO
LIGHTING		
FATO 08/26	Green omni-d edge.	



RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
RWY / TWY / APRON	**SURFACE**	**PCN**	**ELEVATION**
FATO 08/26	Concrete	-	-
TLOF Main	Concrete	-	-
TLOF Secondary	Reinforced Grass	-	-
Apron	Concrete	-	-

CHANGE (10/25): EDITORIAL. MAG INFO.

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EGDP — PORTLAND HELIPORT

EGDP AD 3.1 HELIPORT LOCATION INDICATOR AND NAME

EGDP — PORTLAND HELIPORT

EGDP AD 3.2 HELIPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 503404N Long: 0022658W
2	Direction and distance from city	0.6 NM W of Portland Port. 3 NM S of Weymouth.
3	Elevation / Reference temperature / Mean Low Temperature	9 FT / 20 °C / -
4	Geoid undulation at AD ELEV PSN	160 FT
5	Magnetic Variation / Annual Change	0.65°E (2027) / 0.17°E
6	AD Administration Address Telephone E-mail address Web address	PORTLAND HELIPORT Portland Heliport, Osprey Quay, Portland, Dorset, DT5 1BL. 01305-701702 (Admin) 07942-350235 (Admin) 01305-700001 (Air Ground / PPR) bookings@helioperations.co.uk www.helioperations.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGDP AD 3.3 OPERATIONAL HOURS

1	Heliport Operator	Mon-Thu 0900-1600 (0800-1500); Fri by arrangement; Outside hours by NOTAM.
2	Customs and Immigration	Mon-Thu 0900-1600 (0800-1500); Fri by arrangement; Subject to 24 hours notice.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As Heliport Hours - outside hours by arrangement.
7	Air Traffic Service	See AD 3.17
8	Fuelling	As Heliport Hours - outside hours by arrangement
9	Handling	As Heliport Hours - outside hours by arrangement.
10	Security	
11	De-icing	
12	Remarks	Certain flights not requiring licensed facilities may operate outside hours strictly by prior arrangement.

EGDP AD 3.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Forklift truck and driver, other vehicles available by prior arrangement.
2	Fuel and oil types	JET A-1, F34.
3	Fuelling facilities/capacity	40,000 LT capacity in tank with pressure and gravity refuelling capability. Defueling not available.
4	De-icing facilities	
5	Hangar space for visiting aircraft	Strictly by prior arrangement.
6	Repair facilities for visiting aircraft	Strictly by prior arrangement.
7	Remarks	Portland Heliport does not routinely handle passenger or cargo but is capable of limited services as described above by prior arrangement. Rotor running refuels are permitted. However, whilst refuelling personnel are under the rotor disc, crew changes from the front seat should be avoided. All rotor running refuels are to be conducted on the fuel stand next to the fuel farm.

EGDP AD 3.5 PASSENGER FACILITIES

1	Hotels	Portland and Weymouth Town.
2	Restaurants	Portland and Weymouth Town.
3	Transportation	Taxis can be pre-booked or ordered on arrival.
4	Medical facilities	Dorchester County A&E.
5	Bank and Post Office	Portland and Weymouth Town.
6	Tourist Office	Portland and Weymouth Town.
7	Remarks	Limited crew room and kitchen facilities are available during heliport opening hours.

EGDP AD 3.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category H2 H3 on request.
2	Rescue equipment	Ford 350 Aircraft Crash Rescue Vehicle with associated foam/water capacity and complimentary agents.
3	Capability for removal of disabled aircraft	Limited facilities available universal tow bar available.
4	Remarks	Towbar not compatible with USAF V22 and Merlin helicopters.

EGDP AD 3.7 SEASONAL AVAILABILITY - CLEARING

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EGDP AD 3.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron/ helicopter stands surface and strength	FUEL STAND Surface: Macadam/Concrete. STAND 1 Surface: Macadam/Concrete. STAND 2 Surface: Macadam/Concrete. STAND 3 Surface: Macadam/Concrete. STAND 4 Surface: Macadam/Concrete.
2	Ground taxiway width, surface and designation	
3	Air taxiway width and designation	
4	Altimeter checkpoint location and elevation	
5	VOR checkpoints	
6	INS checkpoints	
7	Remarks	The runway is separated from the main helicopter dispersal area by a grass flood bund. There is a watertight gate through the bund which is to be opened during flight operations. Helicopters must hover taxi over the flood gate or flood bund to and from the apron and FATO. Once on the apron, all helicopters should taxi to and from the fuel stand under guidance from the marshaller. Once on the apron, all helicopters should self-position and taxi to and from the allocated stand. Not all stands are separated for all helicopter types. Stands will be allocated by A/G operator. Portland Heliport has no taxiway. The apron is surrounded by solid white border.

EGDP AD 3.9 MARKINGS AND MARKERS

1	Final approach and take-off markings	FATO 02/20: Yellow circle aiming point and white H. Secondary TLOF: White square and white H on main apron.
2	Taxiway, air taxiway and air transit route markers	
3	Remarks	Secondary TLOF can be used only when Stands 3 and 4 are clear. Yellow guidance lines on entry to apron to Fuel Stand. WDI: 503408.67N 0022657.62W.

EGDP AD 3.10 HELIPORT OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGDP1092) 20/APPROACH 02/ TAKE-OFF	FENCE	503408.81N 0022656.77W	15 FT	8 FT	No	
(EGDP1090) 20/APPROACH 02/ TAKE-OFF	FENCE	503408.59N 0022656.93W	15 FT	8 FT	No	
(EGDP1172) 20/APPROACH 02/ TAKE-OFF	APPROACH LIGHT	503408.40N 0022656.50W	16 FT	8 FT	No	
(EGDP1173) 20/APPROACH 02/ TAKE-OFF	APPROACH LIGHT	503408.20N 0022655.80W	16 FT	8 FT	No	
(EGDP1099) 20/APPROACH 02/ TAKE-OFF	FENCE	503408.13N 0022654.90W	15 FT	8 FT	No	
(EGDP1174) 20/APPROACH 02/ TAKE-OFF	APPROACH LIGHT	503407.90N 0022654.73W	16 FT	8 FT	No	
(EGDP1175) 20/APPROACH 02/ TAKE-OFF	APPROACH LIGHT	503407.70N 0022654.04W	16 FT	8 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGDP1135)	TEMP SHIP	503422.09N 0022621.09W	135 FT	135 FT	No	
(EGDP1093)	TEMP BOAT MAST	503415.80N 0022656.45W	114 FT	114 FT	No	
(EGDP1126)	BUILDING	503403.30N 0022635.35W	152 FT	95 FT	No	
(EGDP1121)	BUILDING	503402.03N 0022644.33W	134 FT	109 FT	No	
(EGDP1143)	TREE	503357.90N 0022607.49W	230 FT	26 FT	No	
(EGDP1132)	BUILDING	503355.10N 0022628.41W	203 FT	26 FT	No	
(EGDP1139)	TREE	503354.68N 0022614.81W	309 FT	36 FT	No	
(EGDP1142)	RADAR	503350.69N 0022608.11W	544 FT	56 FT	No	
(EGDP1137)	RADAR	503346.57N 0022617.47W	499 FT	30 FT	No	
(EGDP1122)	BUILDING	503345.14N 0022641.49W	187 FT	20 FT	No	
(EGDP1136)	NATURAL_HIGHPOINT	503338.72N 0022618.08W	486 FT		No	
(EGDP1151)	MAST	503335.24N 0022547.09W	551 FT	105 FT	Yes Solid Red	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGDP1133)	MAST	503320.40N 0022626.16W	458 FT	58 FT	No	
(EGDP1129)	MAST	503316.95N 0022631.19W	457 FT	64 FT	No	
(EGDP1157)	CHURCH	503307.72N 0022535.88W	433 FT	66 FT	No	
(EGDP1112)	BUILDING	503301.29N 0022649.08W	381 FT	33 FT	No	
(EGDP1160)	BUILDING	503300.83N 0022518.02W	437 FT	76 FT	No	
(EGDP1124)	CHURCH	503249.33N 0022638.26W	391 FT	59 FT	No	
(EGDP1028)	BUILDING	503232.92N 0022707.34W	312 FT	33 FT	No	

EGDP AD 3.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	As per operational hours.
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	Self briefing.
6	Flight documentation Language(s) used	English.
7	Charts and other information available for briefing or consultation	Computer in Ops Room providing online access to Meteorological Office and Aero Weather applications.
8	Supplementary equipment available for providing information	Weather station providing current basic meteorological information, including wind speed/direction, air pressure etc.
9	ATS units provided with information	PORTLAND HELIPORT
10	Additional information (limitation of service, etc.)	METAR on Request.

EGDP AD 3.12 HELIPORT DATA

1	Heliport type	Level surface.
2	TLOF dimensions	02/20: 37 M x 37 M SECONDARY: 24 M x 24 M
3	FATO, GEO bearing	02: 023.90° 20: 203.90°
4	FATO dimensions and surface type	02/20: 200.67 M x 50.6 M Surface: Macadam
5	TLOF surface and bearing strength	02/20 Surface: Macadam SECONDARY Surface: Macadam
6	Co-ordinates of geometric centre TLOF or threshold of FATO	FATO 02: 503400.97N 0022700.19W FATO 20: 503406.91N 0022656.06W TLOF 02/20: 503403.94N 0022658.13W, 160 FT TLOF SECONDARY: 503408.18N 0022700.84W, 160 FT
7	TLOF and/ or FATO elevation and slope	FATO 02: 8 FT FATO 20: 8 FT TLOF 02/20: 9 FT TLOF SECONDARY: 7 FT
8	Safety area dimensions	TLOF 02/20: 67 M x 67 M
9	Helicopter clearway dimensions	
10	Obstacle-free sector	
11	Remarks	

EGDP AD 3.13 DECLARED DISTANCES

Declared distance	TODAH	RTODAH	LDAH	Remarks
1	2	3	4	5
02	201 M	201 M	201 M	
20	201 M	201 M	201 M	

EGDP AD 3.14 APPROACH AND FATO LIGHTING

1	Approach lighting system type, length, intensity	
2	Type of visual approach slope indicator system	
3	FATO area lighting characteristics and location	02: Edge White Light intensity high Omni-directional light fittings showing white light, positioned at max 50 M centres along length of runway, and 4 lights equally spaced across the width of the runway. 20: Edge White Light intensity high Omni-directional light fittings showing white light, positioned at max 50 M centres along length of runway, and 4 lights equally spaced across the width of the runway.
4	Aiming point lighting characteristics and location	02: Aiming point Proportional 'T' only. 20: Aiming point Proportional 'T' only.
5	TLOF lighting system characteristics and location	02/20: Edge Green Light intensity high Inset omni-directional light fittings positioned at max 5 M centres in a square formation within the FATO.
6	Remarks	Night Vision Device Compatible.

EGDP AD 3.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Heliport BCN location, characteristics and hours of operation	
2	WDI location and lighting	Anemometer: 503406.29N 0022703.28W (unlit).
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	
5	Remarks	

EGDP AD 3.16 AIR TRAFFIC SERVICES AIRSPACE

Designation and lateral limits	Vertical Limits	Airspace Class	ATS unit callsign/ language	Transition Altitude	Hours of applicability	Remarks
1	2	3	4	5	6	7
PORTLAND ATZ 503400N 0023006W thence clockwise by the arc of a circle radius 2 NM centred on 503404N 0022658W to 503333N 0023000W - 503400N 0023000W following the line of latitude to - 503400N 0023006W	Upper limit: 2000 FT AGL Lower limit: SFC	G	PORTLAND RADIO English			

EGDP AD 3.17 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	PORTLAND RADIO	122.130 A/G frequency.			Mon-Thu 0900-1600 (0800-1500); Fri by arrangement; Outside hours by NOTAM.	
OTHER	PORTLAND FIRE	121.600 Non-ATS frequency.			Available when fire vehicle attending aircraft on the ground in an emergency.	

EGDP AD 3.18 RADIO NAVIGATION AND LANDING AIDS

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EGDP AD 3.19 LOCAL HELIPORT REGULATIONS

1 GROUND MOVEMENT

a) Helicopters must hover taxi over the flood gate to and from the apron and FATO. Once on the apron, all helicopters should taxi to and from the fuel stand under guidance from the marshaller. Once on the apron, all helicopters should self-position and ground taxi to and from the allocated stand.
b) Aircraft on the ground/hover in the helicopter dispersal area should give way to aircraft taxiing in. If sufficient separation between aircraft cannot be maintained, arriving aircraft should conduct circuits to the North and allow departing aircraft to clear the area.

2 HELIPORT OPERATIONS

a) Helicopters will primarily be operated by HeliOperations (HeliOps) delivering search and rescue (SAR) training. All visiting aircraft to Portland Heliport are PPR, call 01305-700001 or email bookings@helioperations.co.uk.

3 TRAINING

a) Search and rescue (SAR) training, military flying training and military operational training can be conducted by PPR. Civil flying training can be conducted by PPR.

EGDP AD 3.20 NOISE ABATEMENT PROCEDURES

1 GENERAL

a) All ground running should generally be undertaken on the secondary TLOF area.
b) The built-up area to the South/East of Portland Aerodrome should not be overflown below 1000 FT.
c) Minimise overland low flying within 10 NM of Portland Heliport.
d) Minimise unnecessary engine running particularly during unsociable hours.
e) Avoid unnecessary overflight of the Isle of Portland and any adjacent built up areas.
f) Avoid overflying the marina to the North and North West of the heliport.

EGDP AD 3.21 FLIGHT PROCEDURES

1 ARRIVING AND DEPARTING

a) All approaches and departures to the Heliport are conducted at the aircraft commander's discretion. There is a 2 M perimeter fence (orange) marked by red hazard lights in line with the FATO. Pilots are to make their approach to H20 & H02 to the middle of the TLOF.
b) There is a public right of way on the immediate undershoot to H20, therefore if approaching H20 or departing H02 crews, should plan to overfly the right of way as high as is safely possible to minimize any downwash effects.
c) Following approach to the TLOF, aircraft are then to hover taxi over the raised grass bank to the 'H' in the dispersal area, then to a parking spot or refuelling stand.
d) All ground taxi capable aircraft should land and take off at the 'H', and ground taxi to and from a stand or the Refuel Spot under guidance from the marshaller.
e) All aircraft are requested to be downwash aware whilst manoeuvring on the Heliport.

f) A good lookout should be maintained when approaching/departing from Chesil Bank direction as this area is used by paragliders, recreational kites and RPAS.
g) Aircraft arriving via H20 or departing via H02 should exercise caution as vessels have been observed to cross the approach/departure path.

2 CIRCUIT PROCEDURES

a) 02 Left Hand - 1000 FT QNH;
20 Right Hand - 1000 FT QNH.

3 VFR AND SPECIAL VFR FLIGHTS

a) All flights are to be conducted under VFR.

EGDP AD 3.22 ADDITIONAL INFORMATION

1 GENERAL

a) Possible high masted vessels on the approach to H20.
b) Large vessels in the harbour on the approach to H20.
c) Possible paragliders 1-2 KM South-South East of the heliport.

EGDP AD 3.23 CHARTS RELATED TO A HELIPORT

HELICOPTER CHART - ICAO
AD 3.EGDP-2-1
PORTLAND HELIPORT INBOUND/OUTBOUND FLIGHT PROCEDURES
AD 3.EGDP-4-1

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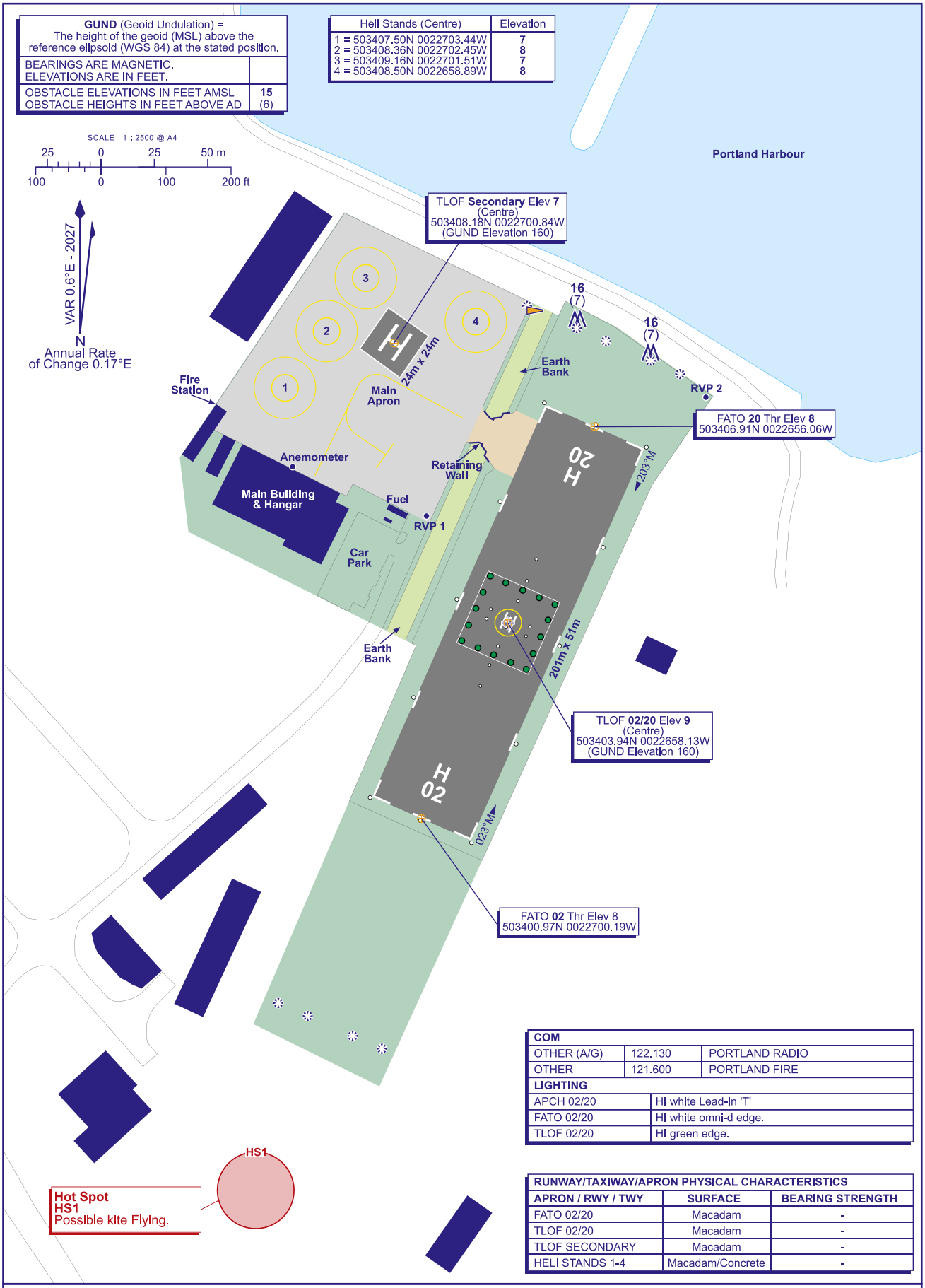
HELICOPTER CHART - ICAO

ARP 503404N 0022658W

AD ELEV 9 ft

PORTLAND HELIPORT
EGDP



COM		
OTHER (A/G)	122.130	PORTLAND RADIO
OTHER	121.600	PORTLAND FIRE
LIGHTING		
APCH 02/20	HI white Lead-In 'T'	
FATO 02/20	HI white omni-d edge.	
TLOF 02/20	HI green edge.	

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS		
APRON / RWY / TWY	**SURFACE**	**BEARING STRENGTH**
FATO 02/20	Macadam	-
TLOF 02/20	Macadam	-
TLOF SECONDARY	Macadam	-
HELI STANDS 1-4	Macadam/Concrete	-

CHANGE (11/25): MAG INFO REVISED.

AERO INFO DATE 13 AUG 25

AD 3-EGDP-2-1

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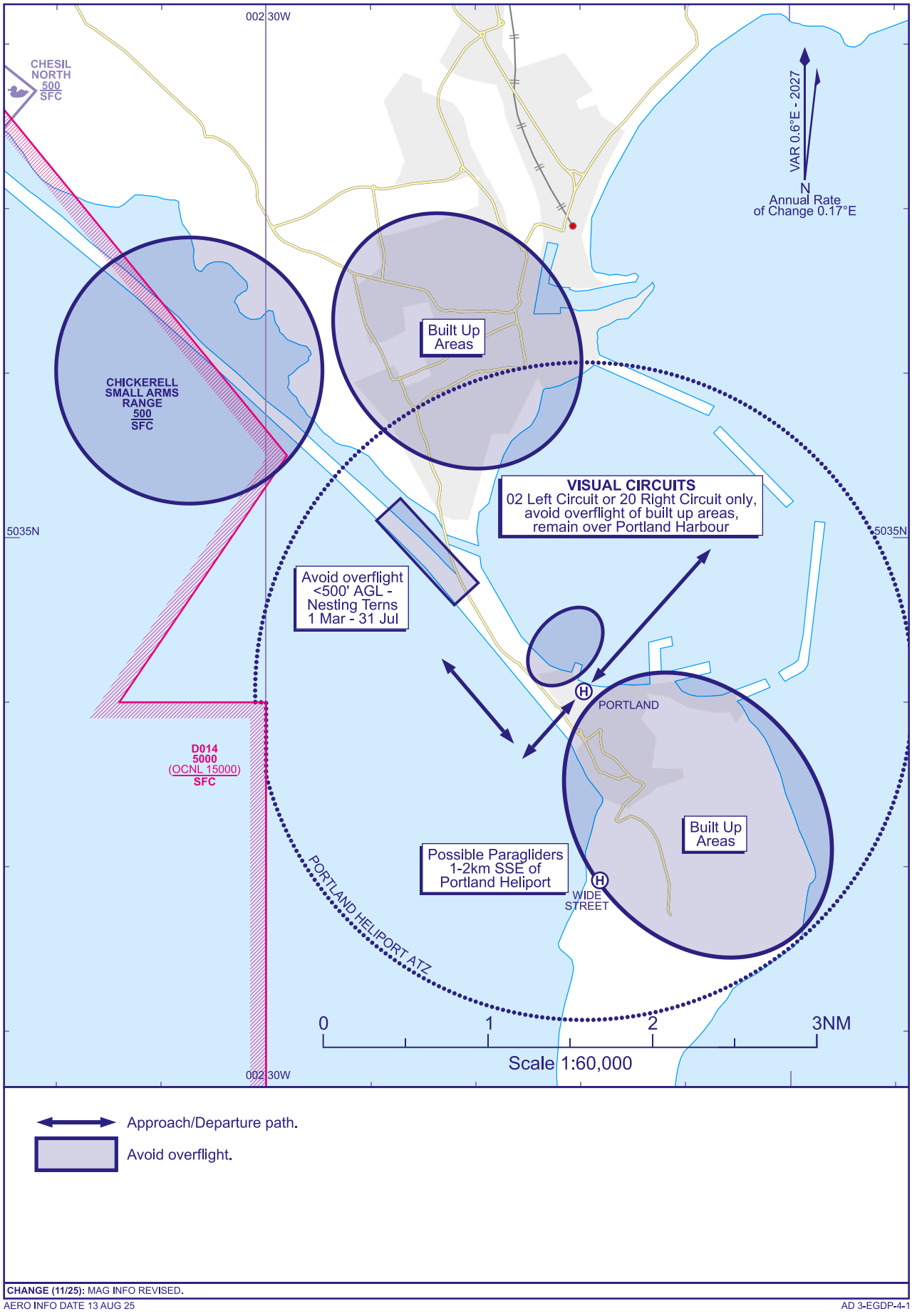
PORTLAND HELIPORT INBOUND/OUTBOUND FLIGHT PROCEDURES

PORTLAND HELIPORT



CHANGE (11/25): MAG INFO REVISED.

AERO INFO DATE 13 AUG 25

AD 3-EGDP-4-1

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EGHT — TRESCO HELIPORT

EGHT AD 3.1 HELIPORT LOCATION INDICATOR AND NAME

EGHT — TRESCO HELIPORT

EGHT AD 3.2 HELIPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	Lat: 495644N Long: 0061953W
2	Direction and distance from city	2 NM north of Hugh Town, Isles of Scilly.
3	Elevation / Reference temperature / Mean Low Temperature	20 FT / 2 °C / -
4	Geoid undulation at AD ELEV PSN	176 FT
5	Magnetic Variation / Annual Change	0.60°W (2027) / 0.18°E
6	AD Administration Address Telephone E-mail address Web address	TRESCO HELIPORT Tresco, Isles of Scilly, TR24 0QQ. 01720-424109 (Tresco Heliport) heliportmanager@tresco.co.uk www.tresco.co.uk
7	Type of Traffic permitted (IFR/VFR)	VFR
8	Remarks	

EGHT AD 3.3 OPERATIONAL HOURS

1	Heliport Operator	From 1 Apr to 31 Oct; Mon-Sat: 0830-1700 (0730-1600); Closed on Sun. From 1 Nov to 31 Mar; Mon-Fri: 0830-1030 and 1430-1600; Sat: 0830-1030; Closed on Sun.
2	Customs and Immigration	By arrangement of airfield operator.
3	Health and sanitation	
4	AIS Briefing Office	
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	As Heliport hours.
7	Air Traffic Service	AGCS only Channel ID 118.205
8	Fuelling	As Heliport hours.
9	Handling	As Heliport hours.
10	Security	
11	De-icing	
12	Remarks	Aerodrome is PPR. Tel: 01720-424109.

EGHT AD 3.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	
2	Fuel and oil types	JET A-1
3	Fuelling facilities/capacity	Mobile Fuel Bowser (1000 LT).
4	De-icing facilities	
5	Hangar space for visiting aircraft	Parking available.
6	Repair facilities for visiting aircraft	
7	Remarks	Aircraft parking available. Overnight or during the day.

EGHT AD 3.5 PASSENGER FACILITIES

1	Hotels	
2	Restaurants	Restaurants on the island.
3	Transportation	Transfers available to accommodation.
4	Medical facilities	
5	Bank and Post Office	Tresco Stores.

6	Tourist Office	
7	Remarks	Small private island facilities all close by.

EGHT AD 3.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting services	RFF Category H2 External rescue agencies available on request.
2	Rescue equipment	Water rescue facilities available for 08/26 during opening hours.
3	Capability for removal of disabled aircraft	
4	Remarks	

EGHT AD 3.7 SEASONAL AVAILABILITY - CLEARING

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EGHT AD 3.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron/ helicopter stands surface and strength	APRON Surface: Grass. Compounded ground.
2	Ground taxiway width, surface and designation	
3	Air taxiway width and designation	Taxiway FATO 08/26: 45 M
4	Altimeter checkpoint location and elevation	
5	VOR checkpoints	
6	INS checkpoints	
7	Remarks	No helicopter ground taxi available.

EGHT AD 3.9 MARKINGS AND MARKERS

1	Final approach and take-off markings	TLOF STAND 2: at westerly end of FATO.
2	Taxiway, air taxiway and air transit route markers	
3	Remarks	Safety Area and FATO combined and marked with inlaid concrete markers. The landing TLOF STAND 2 is marked with L-shaped concrete markers at the westerly end of the FATO. No shutting down on this TLOF. Shutting down and short stay parking is on STAND 1 on the north side of the airfield. There are no runway designators or 'H's at either end of the FATO.

EGHT AD 3.10 HELIPORT OBSTACLES

In Approach/Take-off areas						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHT1079)	BUSH	495645.89N 0061945.60W	13 FT	6 FT	No	
(EGHT1021)	POLE	495642.08N 0062003.78W	23 FT	1 FT	No	

In circling area and at aerodrome						
Obstacle ID/ Designation	**Obstacle Type**	**Obstacle Position**	**Elevation/Height**		**Obstruction Lighting Type/ Colour**	**Remarks**
1	**2**	**3**	**4**		**5**	**6**
(EGHT1008)	RUIN	495748.95N 0062055.18W	149 FT	10 FT	No	
(EGHT1009)	RUIN	495738.51N 0062027.79W	148 FT	10 FT	No	
(EGHT1005)	MONUMENT	495720.23N 0062104.50W	150 FT	10 FT	No	
(EGHT1140)	TREE	495708.45N 0061919.75W	124 FT	107 FT	No	
(EGHT1137)	TREE	495707.70N 0061933.93W	174 FT	79 FT	No	
(EGHT1138)	TREE	495706.62N 0061932.68W	169 FT	81 FT	No	
(EGHT1139)	TREE	495706.10N 0061929.18W	157 FT	77 FT	No	
(EGHT1027)	TREE	495656.67N 0062002.33W	169 FT	111 FT	No	
(EGHT1030)	TREE	495653.54N 0062001.64W	161 FT	79 FT	No	
(EGHT1065)	TREE	495653.41N 0061951.77W	153 FT	74 FT	No	
(EGHT1010)	MONUMENT	495652.07N 0062010.02W	133 FT	25 FT	No	
(EGHT1019)	TREE	495652.04N 0062005.25W	143 FT	74 FT	No	
(EGHT1012)	TREE	495650.33N 0062008.82W	138 FT	51 FT	No	
(EGHT1004)	NATURAL_HIGHPOINT	495647.86N 0062106.00W	140 FT		No	
(EGHT1069)	ANEMOMETER	495642.49N 0061948.82W	49 FT	34 FT	Yes Solid Red	
(EGHT1037)	WINDSOCK	495640.83N 0061958.83W	51 FT	29 FT	No	
(EGHT1115)	TREE	495600.35N 0061743.14W	191 FT	69 FT	No	
(EGHT1106)	MAST	495556.79N 0061819.25W	399 FT	283 FT	Yes Solid Red	
(EGHT1003)	NATURAL_HIGHPOINT	495547.52N 0062102.89W	141 FT		No	
(EGHT1107)	MAST	495545.32N 0061813.31W	272 FT	110 FT	No	
(EGHT1109)	MAST	495542.55N 0061810.05W	219 FT	58 FT	No	
(EGHT1104)	POLE	495531.97N 0061820.41W	156 FT	28 FT	No	
(EGHT1101)	POLE	495530.42N 0061832.18W	149 FT	30 FT	No	

EGHT AD 3.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	MET OFFICE EXETER
2	Hours of service MET Office outside hour	As per operational hours.
3	Office responsible for TAF preparation Periods of validity	
4	Trend forecast Interval of issuance	
5	Briefing/consultation provided	As Heliport hours.
6	Flight documentation Language(s) used	English.

7	Charts and other information available for briefing or consultation	
8	Supplementary equipment available for providing information	
9	ATS units provided with information	
10	Additional information (limitation of service, etc.)	No AD METAR or TAF available.

EGHT AD 3.12 HELIPORT DATA

1	Heliport type	Level surface.
2	TLOF dimensions	STAND 2: 20 M x 20 M
3	FATO, GEO bearing	08: 074.35° 26: 254.35°
4	FATO dimensions and surface type	08/26: 359.8 M x 36.5 M Surface: Grass On compact ground.
5	TLOF surface and bearing strength	STAND 1 Surface: Grass STAND 2 Surface: Grass
6	Co-ordinates of geometric centre TLOF or threshold of FATO	FATO 08: 495642.14N 0062003.52W FATO 26: 495645.28N 0061946.15W TLOF STAND 1: 495646.54N 0061953.60W, 176 FT TLOF STAND 2: 495642.65N 0062000.68W, 176 FT
7	TLOF and/ or FATO elevation and slope	FATO 08: 20 FT FATO 26: 8 FT TLOF STAND 1: 9 FT TLOF STAND 2: 19 FT, slope 1%
8	Safety area dimensions	TLOF STAND 2: 368.3 M x 45 M
9	Helicopter clearway dimensions	
10	Obstacle-free sector	
11	Remarks	

EGHT AD 3.13 DECLARED DISTANCES

Declared distance	TODAH	RTODAH	LDAH	Remarks
1	**2**	**3**	**4**	**5**
08	360 M	360 M	360 M	
26	360 M	360 M	360 M	

EGHT AD 3.14 APPROACH AND FATO LIGHTING

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EGHT AD 3.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Heliport BCN location, characteristics and hours of operation	
2	WDI location and lighting	Anemometer: 495642.49N 0061948.82W (LGTD). WDI: 495640.83N 0061958.83W.
3	TWY edge and centre line lighting	
4	Secondary power supply/switch-over time	Back-up generator. Switch over time 1 minute.
5	Remarks	Flashing red lights on the terminal and around the field on every aircraft arrival and departure.

EGHT AD 3.16 AIR TRAFFIC SERVICES AIRSPACE

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EGHT AD 3.17 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Callsign	Channel/ Frequency(MHz)	SATVOICE number(s)	Logon Address	Hours of Operation	Remarks
1	2	3	4	5	6	7
OTHER	TRESCO RADIO	118.205 A/G frequency.			As Heliport hours. Extended opening by request.	Prior permission and ETA needed for radio to be manned.

EGHT AD 3.18 RADIO NAVIGATION AND LANDING AIDS

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EGHT AD 3.19 LOCAL HELIPORT REGULATIONS

1 HELICOPTER REGULATIONS

Not applicable.

2 GROUND MOVEMENT

Not applicable.

3 WARNINGS

a) Line of trees 50 M to the north and parallel to the strip 30 FT AGL.
b) Great Rock 100 M southeast, 40 FT AGL.

EGHT AD 3.20 NOISE ABATEMENT PROCEDURES

Not applicable.

EGHT AD 3.21 FLIGHT PROCEDURES

1 ARRIVING AND DEPARTING

a) Land's End Radio Mandatory Zone (RMZ). See EGHE AD 2.17 & AD 2.22.
b) Pilots are to avoid overflying a bird nesting site located 500 M to the southeast of the heliport by not approaching from that direction.

EGHT AD 3.22 ADDITIONAL INFORMATION

Not applicable.

EGHT AD 3.23 CHARTS RELATED TO A HELIPORT

HELICOPTER CHART - ICAO
AD 3.EGHT-2-1

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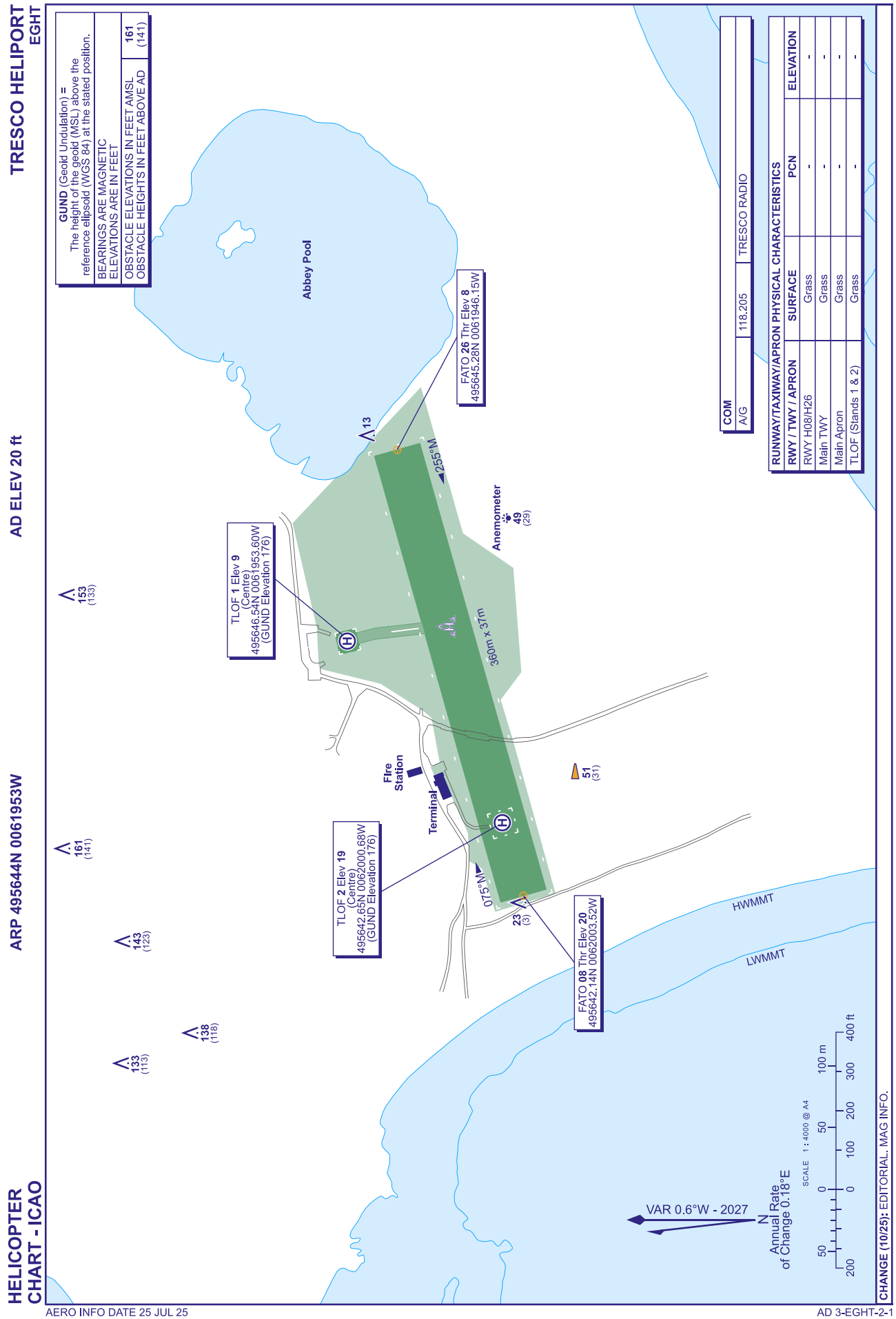
TRESCO HELIPORT
EGHT
AD ELEV 20 ft
ARP 495644N 0061953W
HELICOPTER CHART - ICAO
GUND (Geoid Undulation) = The height of the geoid (MSL) above the reference ellipsoid (WGS 84) at the stated position.
BEARINGS ARE MAGNETIC
ELEVATIONS ARE IN FEET
OBSTACLE ELEVATIONS IN FEET AMSL
OBSTACLE HEIGHTS IN FEET ABOVE AD
161 (141)
COM
A/G 118.205 TRESCO RADIO
RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS
RWY / TWY / APRON | SURFACE | PCN | ELEVATION
RWY H08/H26 | Grass | - | -
Main TWY | Grass | - | -
Main Apron | Grass | - | -
TLOF (Stands 1 & 2) | Grass | - | -
Abbey Pool
FATO 26 Thr Elev 8
495645.28N 0061946.15W
TLOF 1 Elev 9
(Centre)
495646.54N 0061953.60W
(GUND Elevation 176)
TLOF 2 Elev 19
(Centre)
495642.65N 0062000.68W
(GUND Elevation 176)
FATO 08 Thr Elev 20
495642.14N 0062003.52W
Anemometer
49 (29)
Fire Station
Terminal
360m x 37m
256°M
076°M
13
23 (3)
153 (133)
161 (141)
143 (123)
133 (113)
138 (118)
51 (31)
HWMMT
LWMMT
VAR 0.6°W - 2027
Annual Rate of Change 0.18°E
SCALE 1 : 4000 @ A4
200 50 100 0 0 50 100 200 300 400 ft
CHANGE (10/25): EDITORIAL. MAG INFO.
AERO INFO DATE 25 JUL 25
AD 3-EGHT-2-1

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