

GEN 3.2 AERONAUTICAL CHARTS

1 Responsible Service

1.1 General

- 1.1.1 Aeronautical Charts are produced and published by NATS Ltd on behalf of the UK Civil Aviation Authority. NATS Ltd publish a range of aeronautical charts for use by all types of civil aviation. →

Post: Aeronautical Chart Section, Aeronautical Information Service (AIS), NATS Swanwick, Room 3115, Sopwith Way, Southampton, Hants, SO31 7AY. →

Phone: 01489-887463 →

Fax: 01489-612490 →

Email: aissupervisor@nats.co.uk →

1.2 Applicable ICAO Documents

- 1.2.1 The Standards, Recommended Practices and, when applicable, the procedures contained in the following ICAO documents are applied:

Annex 4 Aeronautical Charts;

Doc 8168-OPS/611 Aircraft Operations (Holding patterns, OCH and Instrument Approach Procedures diagrams);

Doc 8697 AN/889 Aeronautical Chart Manual.

- 1.2.2 Differences from ICAO Standards Recommended Practices and Procedures are given at GEN 1.7.

1.3 ICAO IAP Charts

- 1.3.1 Instrument Approach Charts (IAC) are produced and published by NATS/AIM in the UK AIP.

- 1.3.2 The responsibility for the notification of Instrument Flight Procedures (IFP), including IAC, for civil aerodromes in the UK lies with the sponsor: the Aerodrome Licence Holder or ANSP. An Approved Procedure Designer (APD) will be contracted by the relevant sponsor to design the procedures.

- 1.3.3 All policy matters associated with the regulation and design of IFP lie with the Airspace Regulation, Directorate of Airspace Policy (DAP), Civil Aviation Authority. Enquiries concerned with the design of IAP, as opposed to chart production issues, should be addressed to:

Post: Civil Aviation Authority, Airspace Regulation, DAP, K6, CAA House, 45-59 Kingsway, London, WC2B 6TE

Email: airspaceregulation@caa.co.uk

2 Maintenance of Charts

2.1 Chart Amendment and Revision

- 2.1.1 New editions of charts are published as often as resources permit with priority being given to those charts affected by major changes to aeronautical information. However, due to high production costs some charts - particularly those listed at GEN 3.2 paragraphs 5.1 and 5.2 have an edition life of at least 1 year. The publication of each new edition will replace the previous edition, which will then become obsolete. Details will be notified by AIP Amendment as appropriate. The aeronautical information validity date will be specified on each edition and topographical and hydrographical information will have been revised where necessary.

- 2.1.2 Before using any chart operationally, users must determine what aeronautical changes have taken place since its validity date and amend the chart accordingly. This will require users to consult all UK AIP amendments issued since the charts validity date. If in doubt, they should consult AIS Central Office. A list of amendments for the VFR chart series is available on the AIS web site: www.ais.org.uk

- 2.1.3 Amendments to the Aerodrome Obstacle Charts - ICAO - Type A and to the Chart of United Kingdom Airspace Restrictions and Hazardous Areas may be published as or when necessary, but the Chart of UK Areas of Intense Air Activity, Aerial Tactics Areas and Military Low Flying System is amended by annual re-issue.

3 Purchase Arrangements

- 3.1 The charts listed at GEN 3.2 paragraphs 5.1, 5.2, 5.3, 5.4, 5.5 and 5.6, may be obtained through Communisis UK, the main chart agent acting on behalf of NATS Ltd and other NATS Ltd Chart Stockists listed at www.ais.org.uk.

Post: Communisis UK, Balliol Business Park West, Newcastle upon Tyne NE12 8EW

Phone: 0191-203 2329

Fax: 0191-201 5001

Email: nats.services@communisis.com

- 3.2 A selection of Royal Air Force aeronautical charts and planning documents are available from:

Post: AIDU (Sales Office), Royal Air Force, Northolt, West End Road, Ruislip, Middlesex, HA4 6NG

Phone: 020-8845 2300 Ext 7209

Fax: 020-8845 2300 Ext 7510

A catalogue and price list are available on request.

- 3.3 A series of LORAN C Charts are published by the Hydrographic Department of the Admiralty for all areas where coverage exists (with the exception of the Mediterranean), and can be obtained from Admiralty Chart Agents.

GEN 3.2 AERONAUTICAL CHARTS (continued)

4 Aeronautical Chart Series Available

4.1 Specifications

- 4.1.1 Internationally agreed standards for aeronautical charts are set down by the International Civil Aviation Organisation in Annex 4 to the convention on International Civil Aviation. In general, the charts listed below conform to these standards where they apply.
- 4.1.2 Co-ordinate Datum Reference = WGS 84.

4.2 General Description of CAA Aeronautical Charts

4.2.1 Aeronautical Charts ICAO Scale 1:500,000 - United Kingdom

- 4.2.1.1 This series, covering the United Kingdom, is constructed on a Lambert conformal conic projection and conforms with ICAO specifications for Topography, Culture and Aeronautical Information. A Chart List is at GEN 3.2 paragraph 5.1 with an Index at GEN 3.2 paragraph 6.

4.2.2 Topographical Air Charts of the United Kingdom - Scale 1:250,000

- 4.2.2.1 This series is constructed on a Transverse Mercator projection. The Aeronautical Information generally conforms with the series at paragraph 4.2.1, though runway patterns of both active and disused aerodromes are shown where reliable information is available. The vertical limit of the series is 5000 ft ALT. To assist users, airspace with a base of FL 55 is shown, EXCEPT where a minimum ALT in excess of 5000 ft applies. If the QNH is below 1013 hPa Controlled Airspace not shown on the charts may be below 5000 ft ALT and reference must be made to Aeronautical Chart ICAO 1:500,000 to ensure adequate vertical separation. A chart list is at GEN 3.2 paragraph 5.2 with an index at GEN 3.2 paragraph 7. Under normal conditions the revision cycle for sheets 6 and 8 is annual, while the remaining sheets will be bi-annual.

4.2.3 Procedural and Aerodrome Charts

(a) Instrument Approach and Aerodrome Charts - ICAO

- (i) Refer to GEN 3.2 paragraph 1.3 for information on departmental responsibilities within the CAA for Instrument Approach Charts - ICAO
 - (ii) These charts are available for all aerodromes where Instrument Approach Procedures have been established and approved by the CAA. They conform to ICAO specifications, and appear in AD 2.
 - (iii) Separate charts for initial arrival procedures, instrument approach procedures, aerodrome charts and, where necessary, parking/docking charts, are now available for all aerodromes used by international commercial air transport listed in Sections AD 2 and AD 3 of the UK AIP. See GEN 3.2 paragraph 3.2.
- (b) **Aerodrome Obstacle Charts - ICAO Type 'A'**. These charts are available for most aerodromes designated for use by scheduled international air services. Where a Type 'A' Chart is not published, operators are advised to refer to the appropriate 1:50,000 Ordnance Survey Maps.
- (c) **Precision Approach Terrain Charts - ICAO**. These charts are designed to provide detailed terrain profile information within a defined portion of the final approach so as to enable aircraft operating agencies to assess the effect of the terrain on decision height determination by the use of radio altimeters. They are published for aerodromes with precision approach runways Categories II and III.
- (d) **Standard Instrument Departure, Standard Instrument Arrival, Standard Terminal Arrival Route and Noise Abatement Charts**. These charts show designated Departure and Arrival routes for all aerodromes where such procedures are established, and are suitable for operational use. They conform to ICAO specifications. See GEN 3.2 paragraph 3.2.

4.2.4 Miscellaneous Charts

- (a) **UK Airspace Restrictions and Hazardous Areas - 1:1,000,000**: This chart shows all UK airspace restrictions including danger areas and other areas where a potential hazard to air navigation may exist. This chart is available online from the NATS/AIS website at www.ais.org.uk.
- (b) **UK Areas of Intense Air Activity, Aerial Tactics Areas and Military Low Flying System - 1:1,000,000**: This chart portrays areas of intense military air activity and elements of the military low flying system within the UK FIR. This chart is available online from the NATS/AIS website at www.ais.org.uk.
- (c) **Helicopter Routes in the London Control Zone - Scale 1:50,000**: This chart is based on a modified version of the 1:50,000 Ordnance Survey Landranger series, and shows the London Control Zone, Helicopter Routes, the Specified Area, aerodromes, heliports and reporting points within the Zone.
- (d) **UK ATS Airspace Classifications - 1:1,000,000**: This chart depicts UK airspace in accordance with ATS airspace classification criteria. This chart is available online from the NATS/AIS website at www.ais.org.uk.
- (e) **Miscellaneous AIP Charts**: The UK AIP charts are available to the public.

- 4.2.5 Refer to GEN 3.2 paragraph 5 for lists of available charts

4.3 Symbol Sheet

- 4.3.1 The aeronautical symbols used on charts are shown at GEN 2.3. They correspond with the internationally agreed symbols contained in ICAO Annex 4, except that some additional symbols are included where appropriate ICAO equivalents do not exist.

GEN 3.2 AERONAUTICAL CHARTS (continued)

5 Aeronautical Charts Available

5.1 Aeronautical Charts, ICAO, United Kingdom (Scale 1:500,000) (see Index at GEN 3.2 paragraph 6)

Copies of these charts are obtainable from NATS Ltd Chart Stockists - see www.ais.org.uk for details.

Sheet Ref	Chart Title	Edition	Aero Info Date
2150ABCD	Scotland	31	23 Jun 2016
2171AB	Northern England and Northern Ireland	39	26 May 2016
2171CD	Southern England and Wales	43	2 Mar 2017



5.2 Topographical Air Charts of the United Kingdom (Scale 1:250,000) (see Index at GEN 3.2 paragraph 7)

Copies of these charts are obtainable from NATS Ltd Chart Stockists - see www.ais.org.uk for details.

Sheet Ref	Chart Title	Edition	Aero Info Date
1	Northern Scotland West	9	18 Aug 2016
2	Northern Scotland East	9	21 July 2016
3	Northern Ireland	9	17 Sep 2015
4	The Borders	10	26 May 2016
5	Central England and Wales	11	23 July 2015
6	England East	12	28 May 2015
7	The West and South Wales	10	20 Aug 2015
8	England South	20	31 Mar 2016



Note: All the above Charts (listed in para 5.1 and 5.2) are available as laminated sheets. (Postage and Packing are extra).

5.2.1 For comments/feedback on these charts:

Post: Aeronautical Chart Section, Aeronautical Information Service (AIS), NATS Swanwick, Room 3115, Sopwith Way, Southampton, Hants, SO31 7AY.
Email: vfrcharts@nats.co.uk

5.3 Instrument Approach and Aerodrome Charts - ICAO, SID/STAR Charts, and Noise Abatement Charts

Refer to paragraph 5.6, and to Sections AD 2 and AD 3.

5.4 Aerodrome Obstacle Charts - ICAO TYPE A - Operating Limitations

(a) Copies of these charts may be obtained from Communisis UK (See GEN 3.2 paragraph 3.1).

(b) Charts are also available online from the NATS/AIS website: http://www.nats-uk.ead-it.com/public/index.php%3Foption=com_content&task=blogcategory&id=194&Itemid=280.html

Chart Title	Date
Aberdeen/Dyce	Runway 16/34 May 2015
Alderney	Runway 08/26 Jul 2015
Barrow/Walney Island	Runway 17/35 Jan 2016
Belfast/Aldergrove	Runway 07/25 Nov 2013
	Runway 17/35 Nov 2013
Belfast/City	Runway 04/22 Oct 2011
Benbecula	Runway 06/24 Jun 2016
Biggin Hill	Runway 03/21 Aug 2014
Birmingham	Runway 15/33 Apr 2016
Blackpool	Runway 10/28 Sep 2012
Bournemouth	Runway 08/26 Jun 2014
Bristol	Runway 09/27 Mar 2012
Cambridge	Runway 05/23 Aug 2011
Campbeltown	Runway 11/29 Jul 2015
Cardiff	Runway 12/30 Apr 2016
Carlisle	Runway 07/25 Sep 2016
Coventry	Runway 05/23 Aug 2016
Cranfield	Runway 03/21 Dec 2015

GEN 3.2 AERONAUTICAL CHARTS (continued)

Chart Title		Date
Doncaster Sheffield	Runway 02/20	Feb 2016
Dundee	Runway 09/27	Jun 2016
Durham Tees Valley	Runway 05/23	Sep 2016
East Midlands	Runway 09/27	Jun 2014
Edinburgh	Runway 06/24	Jun 2016
	Runway 12/30	Jun 2016
Exeter	Runway 08/26	Mar 2016
Farnborough	Runway 06/24	Feb 2016
Glasgow	Runway 05/23	Apr 2015
Gloucestershire	Runway 09/27	May 2009
Guernsey	Runway 09/27	Jul 2016
Haverfordwest	Runway 03/21	Jun 2015
Hawarden	Runway 04/22	May 2016
Humberside	Runway 02/20	Jun 2015
Inverness	Runway 05/23	Jun 2016
Islay	Runway 13/31	Nov 2015
Isle of Man	Runway 08/26	Aug 2013
	Runway 03/21	Aug 2013
Jersey	Runway 08/26	Apr 2016
Kirkwall	Runway 09/27	Nov 2015
Leeds Bradford	Runway 14/32	Mar 2016
Liverpool	Runway 09/27	Nov 2016
London/City	Runway 09/27	Apr 2010
London Gatwick	Runway 08R/26L	Mar 2015
	Runway 08L/26R	Mar 2015
London Heathrow	Runway 09L/27R	May 2016
	Runway 09R/27L	May 2016
London Luton	Runway 08/26	Sep 2013
London Stansted	Runway 04/22	Sep 2014
Londonderry/Eglinton	Runway 08/26	May 2015
Lydd	Runway 03/21	Nov 2016
Manchester	Runway 05L/23R	Feb 2016
	Runway 05R/23L	Feb 2016
Newcastle	Runway 07/25	May 2016
Newquay	Runway 12/30	Feb 2016
Norwich	Runway 09/27	Apr 2016
Oban	Runway 01/19	Feb 2016
Oxford/Kidlington	Runway 01/19	Aug 2016
Prestwick	Runway 12/30	Apr 2016
	Runway 03/21	Apr 2016
Scatsta	Runway 06/24	Mar 2011
Shoreham	Runway 02/20	Mar 2016
Southampton	Runway 02/20	Aug 2016
	Runway 20 +15° slew	Aug 2016
Southend	Runway 05/23	Sep 2016
Stornoway	Runway 18/36	Nov 2015
Sumburgh	Runway 15/33	Oct 2009
Tiree	Runway 05/23	Jun 2016
Warton	Runway 07/25	Oct 2016
Wick	Runway 13/31	Jun 2016

GEN 3.2 AERONAUTICAL CHARTS (continued)

Chart Title		Date
Wolverhampton	Runway 16/34	Mar 2016

5.5 Precision Approach Terrain Charts - ICAO

- (a) Copies of these charts may be obtained from Communis UK (See GEN 3.2 paragraph 3.2).
- (b) Charts are also available online from the NATS/AIS website: http://www.nats-uk.ead-it.com/public/index.php%3Foption=com_content&task=blogcategory&id=195&Itemid=281.html

Chart Title		Date
Belfast/Aldergrove	Runway 17	May 2001
	Runway 25	May 2001
Birmingham	Runway 15	Aug 2014
	Runway 33	Aug 2014
Bournemouth	Runway 26	Mar 2009
Bristol	Runway 27	Mar 2001
Doncaster Sheffield	Runway 20	Mar 2009
	Runway 09	Feb 2001
East Midlands	Runway 27	Feb 2001
	Runway 06	Jun 2011
Edinburgh	Runway 24	Jun 2011
	Runway 05	May 2001
Glasgow	Runway 23	May 2001
	Runway 08	May 2001
Isle of Man	Runway 26	May 2001
	Runway 32	Sep 2007
Liverpool	Runway 27	Jun 2001
London Gatwick	Runway 08R	Oct 2001
	Runway 26L	Oct 2001
London Heathrow	Runway 09L	Jun 2009
	Runway 09R	Jun 2009
	Runway 27L	Feb 2001
	Runway 27R	Feb 2001
London Luton	Runway 08	Nov 2010
	Runway 26	Nov 2010
London Stansted	Runway 04	Feb 2010
	Runway 22	Feb 2010
Manchester	Runway 05L	Jul 2007
	Runway 23R	Jul 2007
Newcastle	Runway 07	Apr 2001
	Runway 25	Apr 2001
Newquay	Runway 30	Mar 2009

5.6 Other Charts**5.6.1 Miscellaneous Charts**

Copies of these charts may be obtained from NATS Ltd Chart Stockists - see www.ais.org.uk for details.

Chart Title	Edition	UK AIP Page No	Aero Info Date
Chart of Helicopter Routes in the London Control Zone. (Laminated) (Scale 1:50,000)	17	—	18 Aug 2016

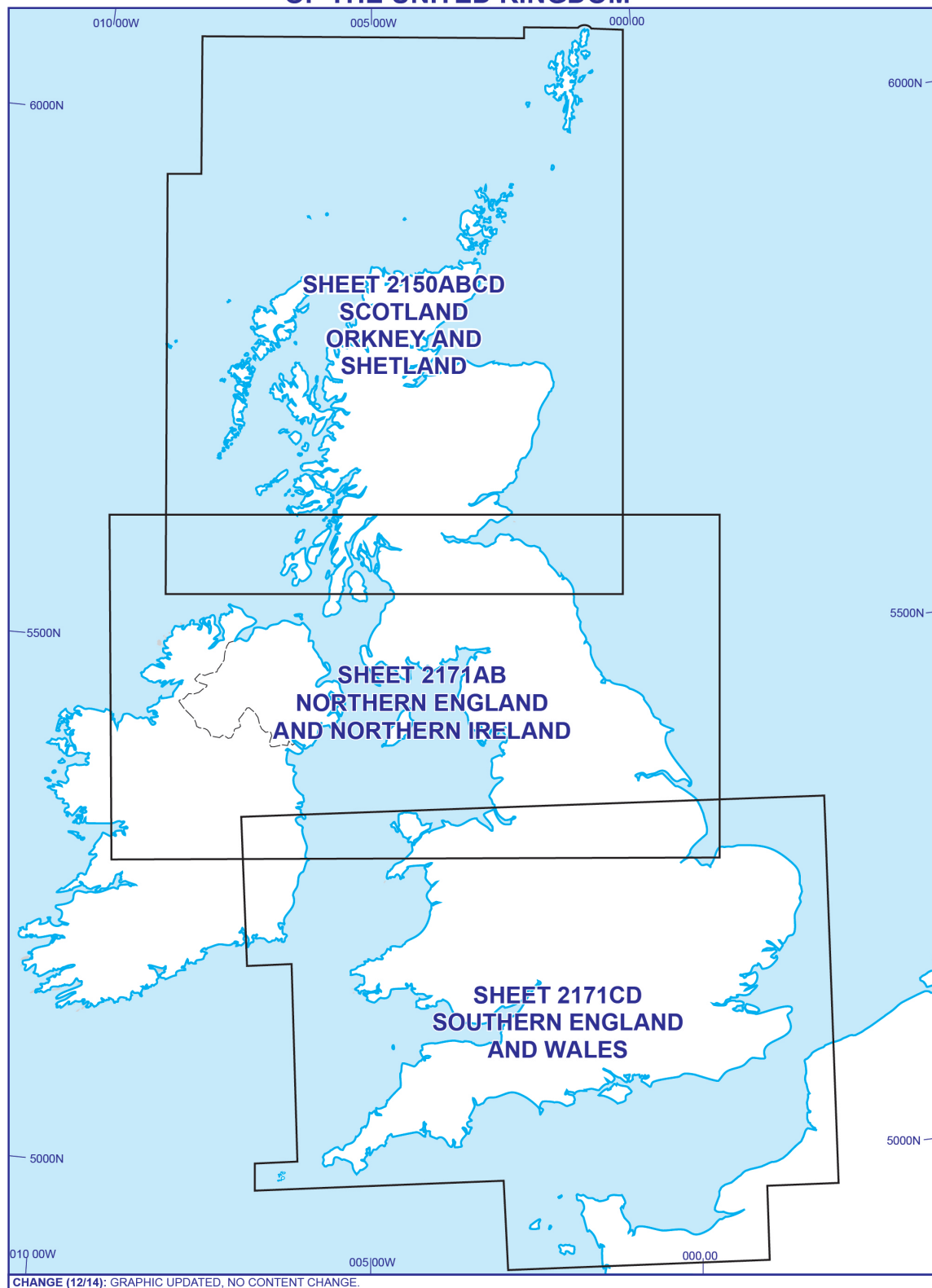


GEN 3.2 AERONAUTICAL CHARTS (continued)

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Index to Aeronautical Charts - ICAO 1: 500,000 of the United Kingdom

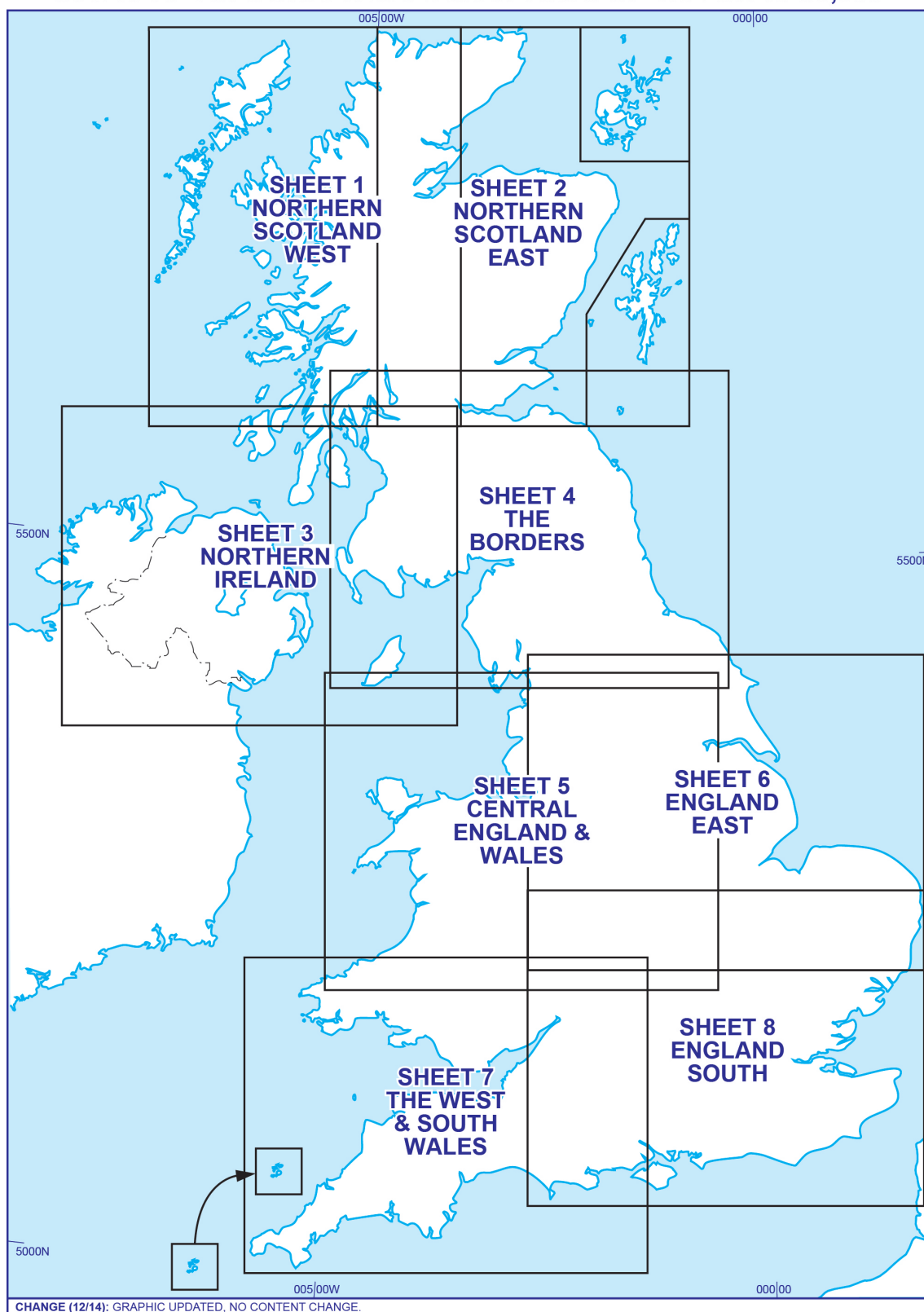
**INDEX TO AERONAUTICAL CHARTS ICAO 1:500,000
OF THE UNITED KINGDOM**



GEN 3.2 AERONAUTICAL CHARTS (continued)

7 Index to Topographical Air Charts of the UK - ICAO 1: 250,000

INDEX TO TOPOGRAPHICAL AIR CHARTS OF THE UK 1:250,000



8 Chart Corrections

- 8.1 At the compilation date of this amendment there are no known corrections to be made to current charts published by the Authority.

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