



United Kingdom
Hydrographic Office

HCA15 7-? UK National Report

UNITED KINGDOM NATIONAL REPORT

15TH HYDROGRAPHIC COMMISSION of ANTARCTICA (HCA) MEETING

Niteroi, Brazil
26 - 28 June 2018

This report supplements the [UK Generic National Report](#), posted on the UKHO website and describes UK's activities of direct relevance to the HCA Region.

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1. UNITED KINGDOM HYDROGRAPHIC OFFICE (UKHO)

UK Delivery of Hydrographic Services

1.1 The UK delivery of hydrographic services is described in the UK Generic National Report. However, it is worth highlighting the close liaison which exists between UK's hydrographic office (UKHO) and UK's maritime administration Maritime & Coastguard Agency (MCA) in providing a co-ordinated approach to hydrographic and maritime safety representation both nationally and internationally.

UKHO Governance and Targets

1.2 This is described in the UK Generic National Report to the IHO, see <https://www.gov.uk>-UKHO generic national report for Regional Hydrographic Commissions.

UKHO Organisation



1.3 Details of the UKHO's organization are provided in the UK Generic National Report (section 1) together with general contact details. Specific contact details relevant to the HCA region are included at the end of this report.

Production Systems

1.4 This is described in the UK Generic National Report.

Cooperation and Partnerships



1.5 The UK is committed to the bilateral arrangements which it has developed in cooperation with other international government hydrographic authorities, covering a range of topics, including the use of copyright data, and also promotes other forms of co-operation between the participants, helping to enhance international maritime safety and protection of the environment.

2. SURVEYS

2.1 Details of the management of civil hydrographic surveys in UK Home Waters are provided in the UK Generic National Report, and on the UKHO website. UK's National Hydrographic Committee (known as the UK Civil Hydrography Annual Seminar (CHAS)) meets on an annual basis and provides the necessary breadth of interests to ensure that all surveying requirements are taken into account when prioritizing the work of the Civil Hydrography Programme (CHP). CHAS was expanded in 2007 to include a much wider range of organisations which conduct hydrographic surveys, and has been considerable successful in promoting co-operation between these organisations.

2.2 Any requests for survey assistance from nations within the HCA region will be assessed within the UK MoD, with advice from UKHO. UKHO can also contribute to project management of hydrographic surveys, and has a post dedicated to the phased development of new international survey activity and capability. It acts as the initial point of contact for UKHO involvement in direct overseas surveying schemes, including UK Overseas Territories and involvement in Regional Hydrographic Commission initiatives. Further information can be obtained from Mr. Sam Harper (samuel.harper@ukho.gov.uk).

2.3 UK Hydrographic Surveys in Antarctica, carried out by HMS Protector during the 2016/17 & 2017/18 seasons are shown in figures 1 and 2 respectively:



Figure 1

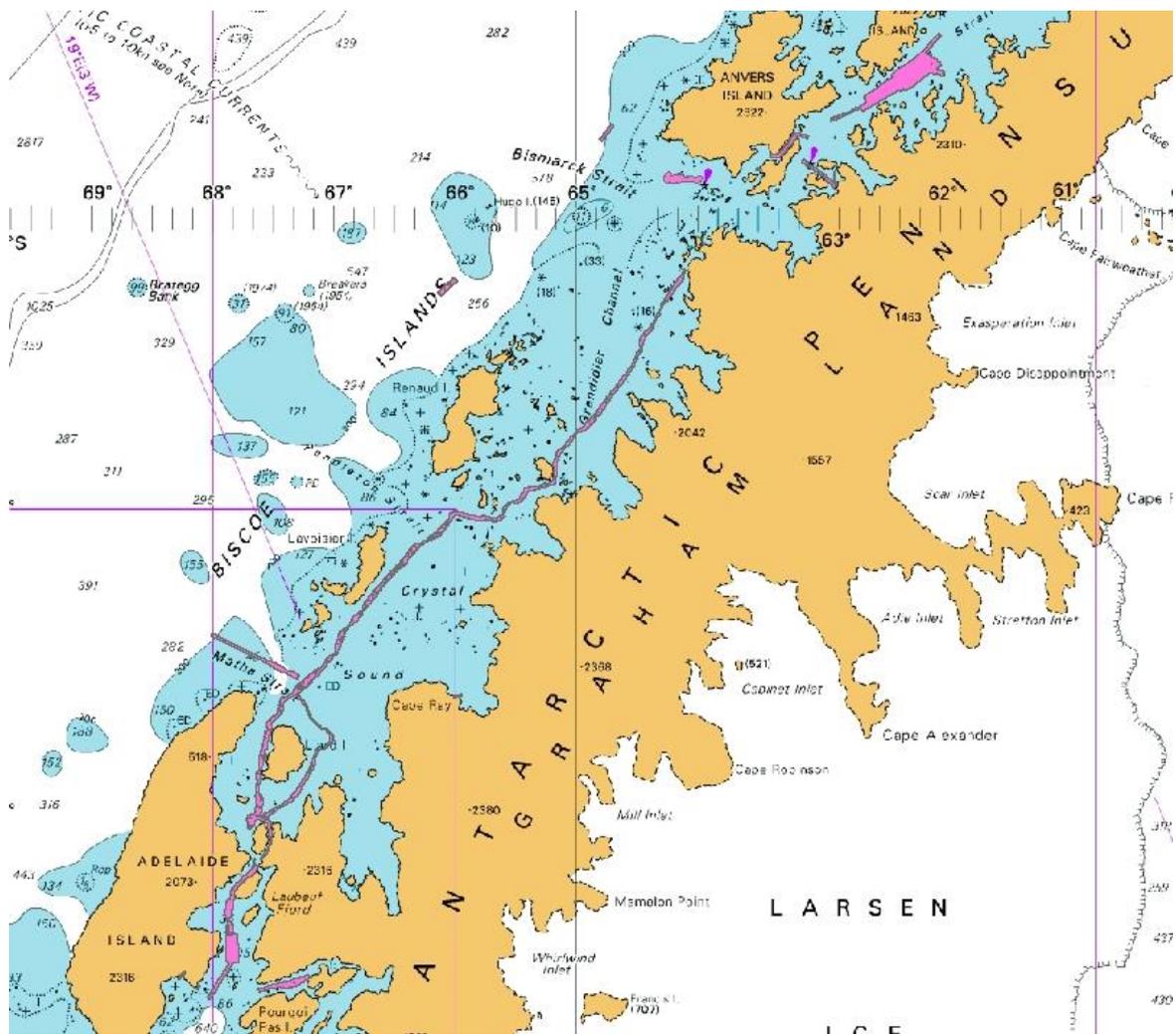


Figure 2

3. CHARTS

3.1 UK's Generic National Report provides information on UK's portfolio of chart products and services. The following paragraphs provide information specifically relevant to the HCA region.

Paper Charts



3.2 Information on UK's chart portfolio is provided on the UKHO website. The following paragraphs provide information specifically relevant to the HCA region.

The following charts have been published since the last HCA meeting:

- INT9165 Gerlache Strait to Orleans Strait
- INT9159 Pendleton Strait and Grandidier Channel

- INT9160 Matha Strait to Larrouy Island
- INT9117 Plans in Graham land
- INT9131 Crystal Sound to Pendleton Strait

The following charts are in the work programme for preparation during the next twelve months:

- INT9166 Wilhelmina Bay
- INT9114 Plans in Antarctic Sound
- INT9113 Biscoe Wharf and Horseshoe Island

Digital Charts



3.3 As noted in section 3.1, UK's Generic National Report provides information on UK's portfolio of chart products and services. The following paragraphs provide information specifically relevant to the HCA region.

ENCs

3.4 Within the HCA Region, UK has published 18 ENC cells.

The breakdown of ENC's by usage band is shown in Figure 4, ENC coverage Usage band 1 in figure 5, ENC coverage Usage bands 3 to 5.

HCA REGION	
ENC Usage Band	Number of GB ENCs
Usage Band 1	5
Usage Band 2	0
Usage Band 3	7
Usage Band 4	8
Usage Band 5	3
Usage Band 6	0
Total number of released ENCs	23

Figure 3 Breakdown of GB ENC cells by usage band.

Figure 4 GB ENC's in usage band 1.

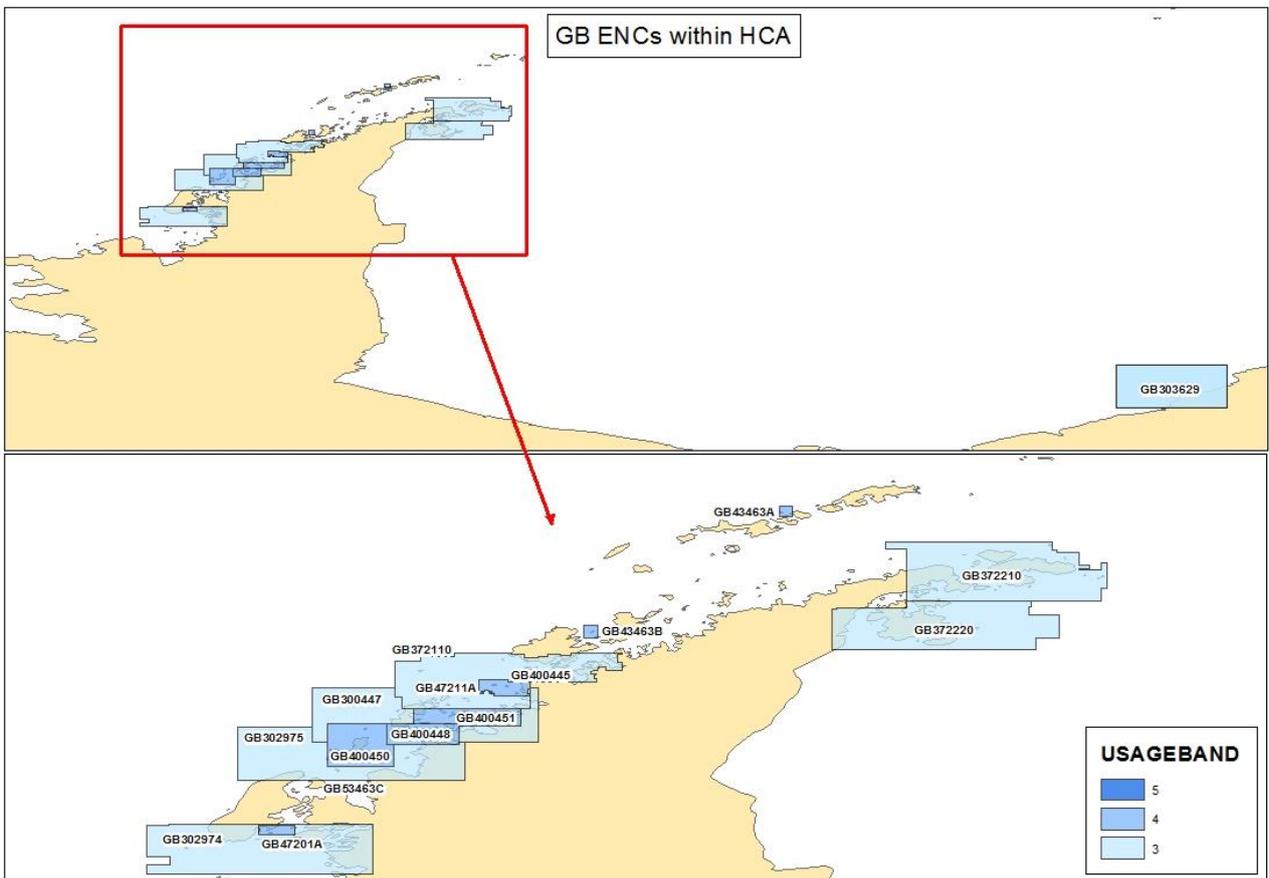
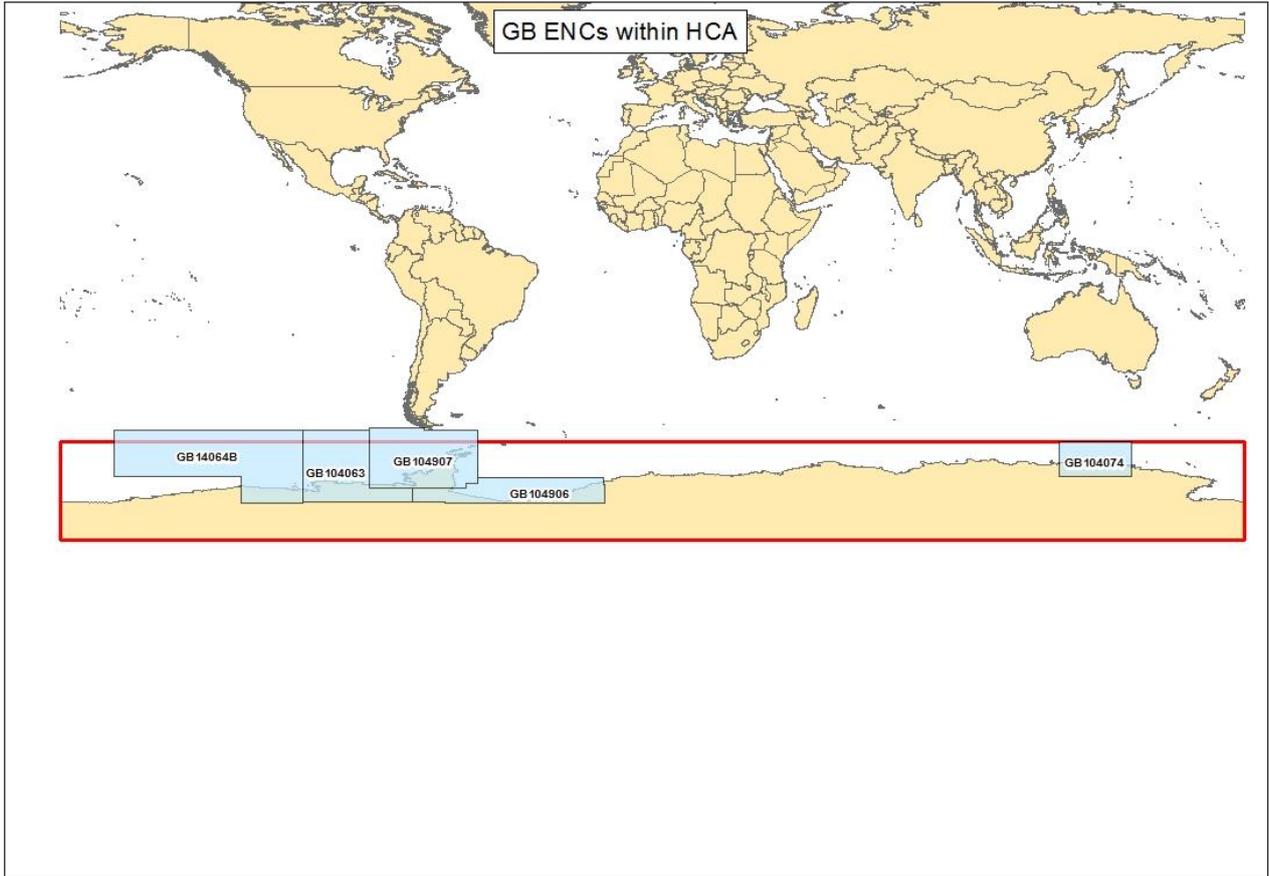


Figure 5 GB ENC in usage bands 3 - 5.

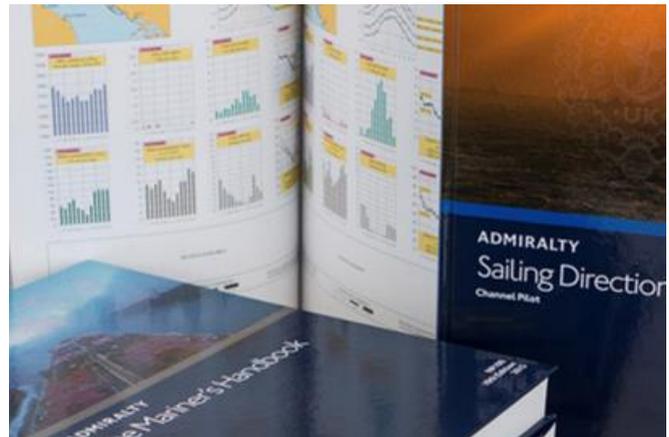
ENC Distribution

3.5 The UKHO, along with other European hydrographic offices, was a founder member of the International Centre for ENCs (IC-ENC) Regional ENC Co-ordination Centre (RENC). The IC-ENC concentrates its efforts on the validation and consistency of ENC data and leaves the marketing of ENCs to the shipping industry and to its value-added resellers (VARs) and chart agents. Additional details can be found on the IC-ENC website (www.ic-enc.org).

The UKHO also acts as a VAR in its own right, particularly promoting a global range of ENCs under the AVCS brand alongside its successful Admiralty range of paper charts and publications. Additional details can be found on the UKHO's Admiralty website (www.admiralty.co.uk).

4. PUBLICATIONS

Paper Publications



4.1 The status of Admiralty Sailing Directions in the HCA region is as follows:

NP9 was published in September. The publication date of the new edition was 18th September 2014.

Digital Publications



4.2 The UKHO continues to develop digital equivalents to its existing paper publications; these have advantages to the mariner of providing additional functionality and minimising the task of updating.

4.3 Catalogue. The Admiralty digital catalogue may be downloaded free from the UKHO's Admiralty website (www.admiralty.co.uk) it includes details of all paper and digital charts and publications and is updated weekly. It is a useful tool to check the ENC coverage within the region and to show the latest edition dates of both charts and publications.

5. MARITIME SAFETY INFORMATION

5.1 The UK's principal responsibility within the HCA region is for its British Antarctic Territory.

5.2 The HCA region lies within NAVAREAs VI, VII, X, XIV and XV, co-ordinated by Argentina, South Africa, Australia, New Zealand and Chile respectively. The UKHO maintains close liaison with all coordinators in the region and any information, received at UKHO, which requires urgent promulgation, is passed to the appropriate NAVAREA co-ordinator.

6. C-55 LATEST UPDATE

6.1 As described in the UK Generic National Report, the UKHO is committed to providing regular updates to the C-55 entries for UK Home Waters and its Overseas Territories, including British Antarctic Territory within the HCA area. For the latest update see C-55; we have incorporated the additional breakdown of chart coverage (percentage of metric and WGS84 charts) as requested in IHO Circular Letter 102/2008.

6.2 UK has also provided assistance to update C-55 entries to other countries, where the UKHO retains the primary charting responsibility, recognizing that local input remains critical to the maintenance of C-55 as an up-to-date and authoritative reference document.

7. CAPACITY BUILDING

7.1 As described in the UK Generic National Report, the UK is committed to fully supporting the IHO CBSC strategy. In particular UK continues to progress getting Phase 1 and appropriate Phase 2 capacity in place, to enable coastal states to meet their obligations under SOLAS Chapter V Regulations 4 and 9. UK will continue to contribute resources to both CBSC initiatives and to providing bilateral assistance.

7.2 No new capacity building initiatives relating to the HCA region have been undertaken since the last HCA.

Cartographic Training provided by UKHO



7.3 A general description of training provided by UKHO is included in the UK Generic National Report.

ENC Training and Assistance



7.4 The UKHO strongly supports the successful uptake of ECDIS using ENC, and is happy to assist other nations to produce, maintain and distribute ENCs. Details of courses, sponsorship, venues and options for bespoke training provided by the UKHO are included in the UK Generic National Report.

Survey Training at Flag Officer Sea Training - Hydrography, Meteorology and Oceanography (FOST-HM)

7.5 Nationally and internationally certified courses delivered by FOST-HM in Plymouth, are described in the UK Generic National Report.

8. OCEANOGRAPHIC ACTIVITIES

This is described in the UK Generic National Report.

9. OTHER ACTIVITIES

UK Celebrations for World Hydrography Day (WHD)

The IHO theme for the 2017 World Hydrography day was:

"Mapping out seas, oceans and waterways - more important than ever"

9.1 The UK celebration of WHD 2017 was held as an evening reception at Lancaster House, London in July 2017. Guests were welcomed by the Rt. Hon. the Earl Howe, Minister of State for Defence, John Humphrey, the UKHO Chief Executive, and Rear Admiral Tim Lowe, UK National Hydrographer. The guests at this high-level networking opportunity event included; Mr Robert Ward, General Secretary of the International Hydrographic Organization, Vice-Admiral Ben Key, RN Fleet Commander and many representatives from Government, Ports, Harbours, maritime related commercial companies, Embassies and Consulates.

9.2 The reception also saw Robert Ward presented with a gift of an 18th century chart, in recognition of his contributions to the hydrographic community during his period of office as President and Secretary General of the International Hydrographic Organization.

9.3 As part of the events to mark the 2017 World Hydrography Day in June, the United Kingdom Hydrographic Office (UKHO) hosted an interactive family day around the theme of 'Getting to know the UKHO', which gave the opportunity for hundreds of parents and children to participate in fun hydrographic activities, as well as meet expert mariners and representatives from the UKHO. This year's event was expanded to include 'UKHO Archives' and 'Electronic Charting' exhibitions together with an outdoor Royal Navy exhibition, in the courtyard, which was very popular and acted as a link between the two events.

9.4 In celebration of World Hydrography Day, the UK Hydrographic Office has established the Alexander Dalrymple Award in recognition of an individual's outstanding dedication and contribution to hydrography. The annual award is named in honour of Alexander Dalrymple FRS who, following orders from King George III in 1795, set up what is now the UK Hydrographic Office. Mr Adam Greenland, National Hydrographer, Land Information New Zealand was

awarded the 2017 Alexander Dalrymple Award in recognition of his tireless contribution to the International Hydrographic Community, particularly for his leadership and driving force in the aid-funded Pacific Region Navigation Initiative (PRNI), which focused on navigation related aspects of maritime safety to support Pacific Island Countries fulfil their own SOLAS obligations. Mr Greenland was unable to attend the reception but his sister, Jessica Waterhouse accepted the award on his behalf-later awarded personally in NZ at the High Commission Residence.

10. CONCLUSION

The UKHO continues its commitment to carrying forward hydrographic activities through the work of the IHO's Regional Hydrographic Commissions, and notes that each commission has its own particular opportunities and challenges.

UK commitment to the Antarctic and the HCA has been reinforced through the recent surveys and work of HMS PROTECTOR. This vessel will continue to carry out all the functions of an Antarctic patrol ship, involving close links with the UK FCO, the UKHO and the BAS. The present challenges facing HCA are those of co-ordinating both the diverse data gathering being undertaken by different nations, and the provision of adequate chart coverage for the region. The provision of adequate ENC coverage, in support of the IMO carriage requirement for ECDIS that came progressively into force from 2012, presents a significant challenge in the HCA region as well as others.

Taunton, June 2018

International Hydrographic Organisation		Chair/Vice Chair	Member
ABLOS	Advisory Board on Law of the Sea		x
CSBWG	Crowd-sourced Bathymetry Working Group		x
DQWG	Data Quality Working Group		x
ENCWG	ENC Standards Maintenance Working Group	x	x
GEBCO	General Bathymetric Chart of Oceans		x
HSSC	Hydrographic Services and Standards Committee		x
MSDIWG	Marine Spatial Data Infrastructure Working Group		x
NCWG	Nautical Cartography Working Group		x
NIPWG	Nautical Information Provision Working Group		x
S-100WG	S-100 Working Group		x
TWCWG	Tides, Water Level & Currents Working Group		x
WENDWG	Worldwide ENC Database Working Group	x	x
WWNWS	Worldwide Navigational Warning Service		x
International Hydrographic Organisation		Chair/Vice Chair	Member
HCA	Hydrographic Commission on Antarctica		x
MACHC	Meso American and Caribbean Sea Hydrographic Commission		x
MBSHC	Mediterranean and Black Seas Hydrographic Commission		x
NIOHC	North Indian Ocean Hydrographic Commission	x	x
NSHC	North Sea Hydrographic Commission		x
RSAHC	ROPME Sea Area Hydrographic Commission		x
SAIHC	Southern African and Islands Hydrographic Commission	x	x
SWPHC	South-West Pacific Hydrographic Commission		x
International Maritime Organisation		Chair/Vice Chair	Member
NCSR	Navigation, Communication, Search and Rescue		x

NAVTEX	NAVTEXT Coordination panel	x	x
DRWG	Document Review Working Group of NAVTEXT		x
International Association of Marine Aids to Navigation and Lighthouse Authorities		Chair/Vice Chair	Member
ENAV	E-navigation Committee		x
WVTSAB	World Vessel Traffic System Advisory Board		x
Other International Bodies		Chair/Vice Chair	Member
IAU	International Astronomical Union		x
CIRM	Comité International Radio-Maritime		x
BALTICO	Navarea1 member states meeting	x	
ISO	International Standards Organisation		x
OGC	Open Geospatial Consortium		x

UKHO POINTS OF CONTACT

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