



UK Hydrographic
Office

SAIHC19-7.9 UK National Report

UNITED KINGDOM NATIONAL REPORT

to the

SOUTHERN AFRICAN AND ISLANDS HYDROGRAPHIC COMMISSION (SAIHC) 19TH MEETING

29 – 31 AUGUST 2023
Mauritius - Hybrid Meeting



This report supplements the UK Generic National Report, posted on the UKHO website

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1. UK HYDROGRAPHIC OFFICE (UKHO)

UK Delivery of Hydrographic Services

1.1 The UK delivery of hydrographic services is described in the UK Generic National Report; it is worth highlighting, however, the close liaison which exists between UK's Hydrographic Office (UKHO) and UK's maritime administration Maritime & Coastguard Agency (MCA) in providing a coordinated 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.

UKHO Organisation

1.3 Details of the UKHO's organisation are provided in the UK Generic National Report (Section 1) together with general contact details. Specific contact details relevant to the SAIHC 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 enduring partnerships through bilateral arrangements, developed in co-operation with other international government hydrographic authorities and data providers, covering a range of topics, including the use/re-use of data protected by copyright and intellectual property rights of those authorities. These also promote other forms of co-operation between the participants, helping to enhance international maritime safety and protection of the environment.

2. REGIONAL ACTIVITY

UK Overseas Territories Programme

2.1 The UKHO continues to run the Overseas Territories Seabed Mapping Programme (OTSMP), which is reviewing the status of hydrography within the UK Overseas Territories (OTs). The OTSMP continues to highlight the importance and utility, both locally and within UK government, of Hydrography and the wider blue economy within the context of the UK OTs. The UKHO is continuing to plan and deliver a range of Programme activity in several UK OTs through 2023, to improve their compliance with the Hydrographic elements of SOLAS.

2.2 The UK fulfils the Primary Charting Authority responsibilities of the following UK OTs within the SAIHC region:

- Ascension, St Helena and Tristan da Cunha.

2.3 The OTSMP has UK government funding to assess and redress the deficit of bathymetric data and lack of sound hydrographic governance in the UK's OTs; the programme is now in its seventh year and in August 2022 supported the *Government of Montserrat* in the conduct of coastal surveys to provide improved knowledge of their waters.

2.4 Work has also continued on developing Hydrographic Action Plans with each territory to identify future requirements for development supporting the building of strong governance and future survey planning.

Commonwealth Marine Economies Programme

2.5 The Commonwealth Marine Economies Programme has now concluded and will hopefully be replaced with a new programme in the near future. In the interim, UKHO are assessing how to provide support to nations in the region working collaboratively with partners to align requirements with funding

and delivery options.

Surveys and Capacity Building

2.6 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 Civil Hydrography Working Group (CHWG) meets on an annual basis and provides the necessary breadth of interests to ensure that all surveying requirements are considered when prioritising the work of the Civil Hydrography Programme (CHP). This is now also being coordinated more widely through the new UK Centre for Seabed Mapping (UK CSM) – 1.1.3 refers.

2.7 In total, UKHO survey operations under the OTSMP and CME programme have covered a combined area of nearly 21,000KM² since their inception. Since the last SAIHC meeting the UK has collected Satellite Derived Bathymetry (SDB) seabed mapping in Ascension and St Helena. The extent of these surveys can be seen in Figure 1 and Figure 2 respectively. The Ascension survey greatly improves the coverage of modern data with 422km² collected; the St Helena survey infills around data previously collected and equates to 190km².

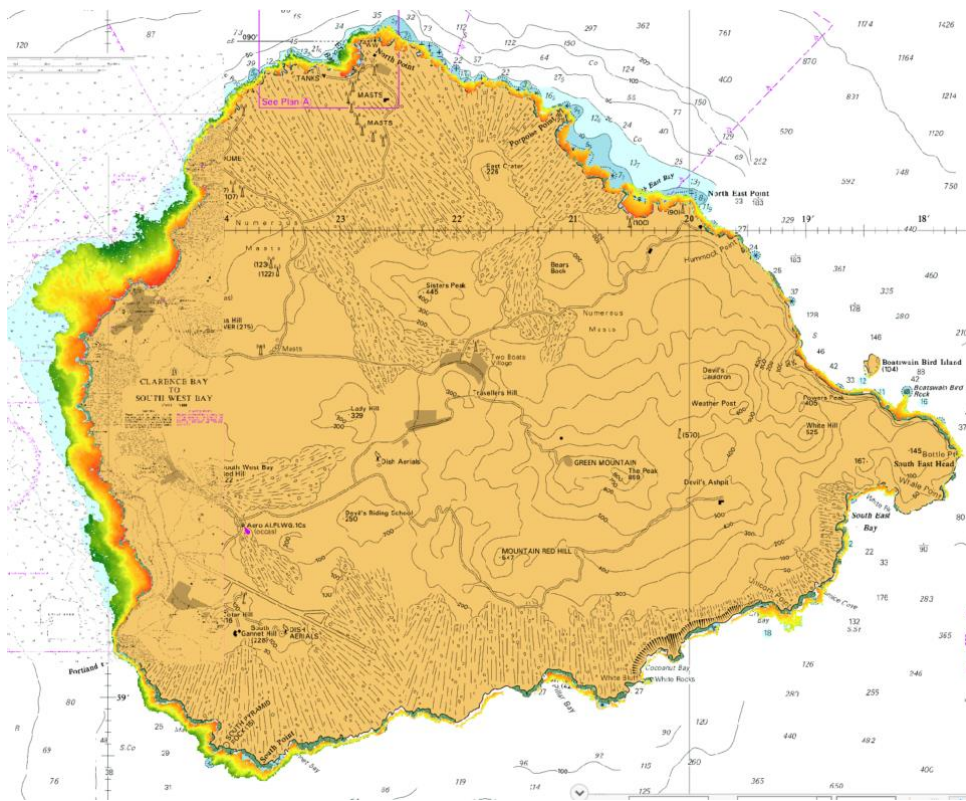


Figure 1: SDB seabed mapping survey around Ascension



Figure 2: SDB seabed mapping survey around St Helena

2.8 The UK continues to explore how we can strengthen the relationship with countries for which we are the Primary Charting Authority (PCA). We have increased our level of engagement to better understand prioritised requirements in the SAIHC region and are currently updating our strategy to reflect this.

2.9 Any requests for survey assistance from nations within the SAIHC region will be considered. The UKHO has a dedicated team of specialists that manage the portfolio of survey and hydrographic development programmes. In addition to survey advice, the team are configured to provide support and advice in the development of hydrographic governance and identifying funding. Further information can be obtained from (hydrographicprogrammes@UKHO.gov.uk).

3. CHARTS

3.1 UKHO's guiding principle is the provision of trusted, official navigation solutions that support the safety of life at sea. It is clear that the future of navigation is digital, as shown by the rapidly shrinking demand for paper products. Digital solutions offer significant advantages including the ability for digital charts be updated in near real-time, greatly enhancing safe navigation and ease of use. To this end, in July 2022 the UKHO announced its strategic decision to withdraw from paper chart production and implement a fully digital chart solution.



Whilst our strategy is to exit from paper charting, we know that access to regulated official digital charting remains a problem for many mariners. Therefore, we are working with the International Hydrographic Organisation (IHO) to understand the gaps in access and to recommend updated standards for data and systems and eventually the International Maritime Organisation (IMO) for regulatory changes with the end goal of bringing the benefits of a regulated and official digital chart solution for all mariners.

Our exit from paper charting is now based on access to official regulated charting becoming available to allow mariners to transition and not leave them unable to safely and compliantly navigate.

The UKHO will need to respond to the continuing challenge of providing paper charts as demand falls and we will continue to look at how to focus on providing the mariner with access to the charting they need to navigate safely.

The UKHO's Generic National Report provides information on UK's portfolio of chart products and services.

Paper Charts

3.2 Information on UK's chart portfolio is provided on the ADMIRALTY website. There have been 3 new editions of SNCs published since May 2022. The following charts have been published since the last SAIHC meeting as New Charts or full New Editions:

GB Chart Number	INT Chart Number	Title	Published
4142	2672	Saldanha Bay Harbour	11/08/2022
1236	2673	Entrance to Saldanha Bay	11/08/2022
711		Mauritius	15/09/2022

The following charts are scheduled for publication in the next six months:

GB Chart Number	INT Chart Number	Title
1691	2515	Ascension
1771	2516	Saint Helena with Approaches to Ascension

Digital Charts

3.3 As noted in Section 1.1, 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 SAIHC region.



ENCs

3.4 Within the SAIHC region, the UKHO has released a total of 106 ENC cells. The breakdown by usage band is shown in the table below:

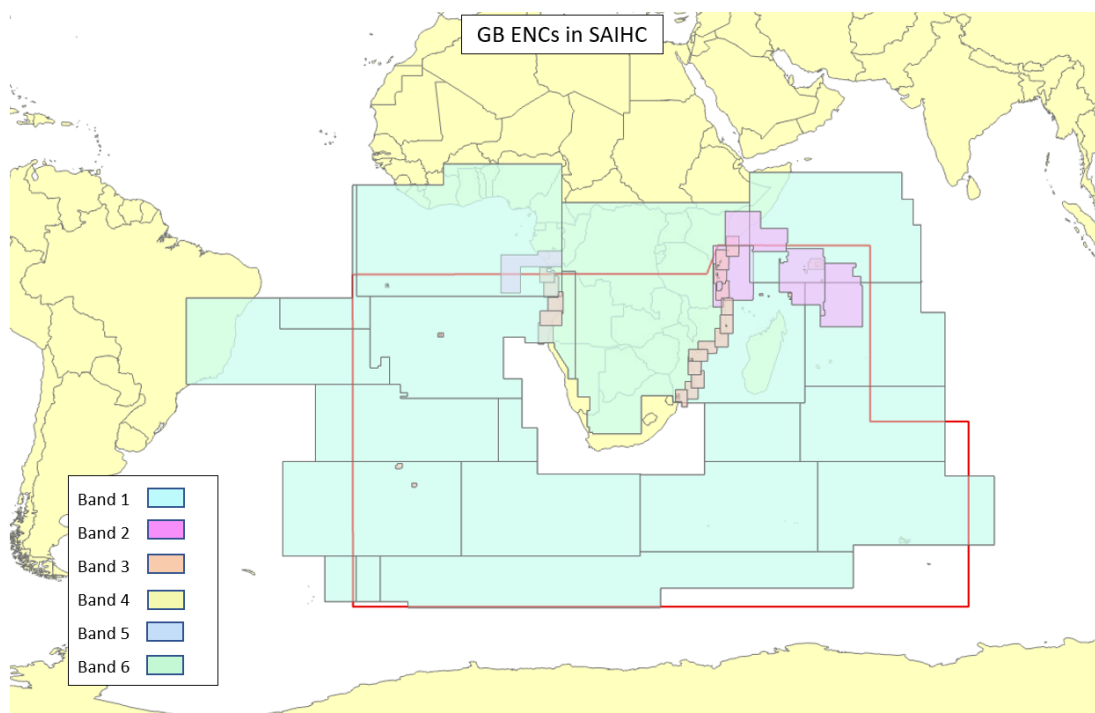
SAIHC Region Released Cells	
ENC Usage Band	Number of GB ENC's
Overview	18
General	5
Coastal	29
Approach	37
Harbour	14
Berthing	3
Total number of released ENCs	106

ENC totals by usage band as produced by UKHO

The tables below show revisions to GB ENC coverage for the SAIHC region during 2022/23. The subsequent diagram illustrates the current coverage of GB ENCs within the SAIHC Region.

New Cells Jun 2022 – Jun 2023	Week No.
GB400669	45_22
GB4DUWWG	21_23
GB4DATMS	49_22
GB4DATMN	49_22
GB4DUWWC	21_23
GB40649A	41_22
GB400668	25_23
GB40668A	25_23
GB500669	45_22

Cancelled Cells Jun 2022 – Jun 2023	Week No.	Replacements	
		Cell Name	Cell Title
GB400649	41_22	GB40649A	
GB40718B	22_23	IN52509I	
GB43448F	40_22	PT516303	
GB52721A	49_22	GB4DATMN	



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 Coordination Centre (RENC). IC-ENC concentrates its efforts on the validation and consistency of ENC data and leaves the marketing of ENCs to the shipping industry to its value-added resellers (VAR) 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 ENC's under the AVCS brand alongside its successful ADMIRALTY range of paper charts and publications. Additional details can be found on the ADMIRALTY website (www.admiralty.co.uk).

S-100

3.6 The UKHO is at the forefront of developing S-100 based products and services; we are doing this by working in collaboration and actively engaging with other Hydrographic Offices and our industry partners. We are sharing our knowledge and experiences with others as we go on this journey. With regard to S-100 based products and services, the UKHO is focusing on the detailed development of S-101 (Electronic Navigational Chart (ENC), S-102 (Bathymetric Surface), S-104 (Water Level Information for Surface Navigation) S-111 (Surface Currents), S-124 (Navigation Warnings) and S-128 (Catalogue of Nautical Products). This largely aligns with the IHO Prioritisation of S-100 datasets. The IMO's Maritime Safety Committee (MSC106 November 2022) endorsed the proposal from the Navigation, Communications and Search & Rescue (NCSR) sub-committee on the timeline for implementing the S-100 ECDIS Performance Standard. Therefore, we are planning to be in a position to support the use of S-100 ECDIS with S-100 products from 1 January 2026.

Data Improvement including Rescheming

3.7 The UKHO has chosen the parameters of a gridded ENC scheme for S-57 and S-101 which is applicable to all GB ENC's across the globe at all scale bands. The UKHO has engaged with many FGHOs and RHCs to explain the chosen scheme and is keen to share the parameters, our experience and offer any guidance to HOs who would wish to align their ENC scheme with the UK grid.

Several national HOs have shown an interest in using the UKHO scheme and aligning their data limits with GB ENC coverage and one RHC has chosen to adopt the UK grid where their contributor nations chose to do so.

The GB ENC rescheme is the foundation of UKHO's future strategy to deliver an interactive portfolio of S-100 products and services to the mariner. The GB ENC rescheme is also part of a wider Data Improvement Programme of work which specifically aims to improve the usability of GB ENC's, resolve user pain-points, and enhance safety for the mariner.

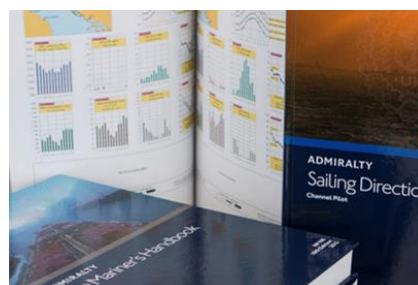
The UKHO has already successfully delivered several areas of reschemed GB ENC coverage, including High Density contouring, which is generating very positive feedback from the users.

4. PUBLICATIONS

Paper Publications

4.1 The Admiralty Publications in the SAIHC region are as follows:

- NP77 ADMIRALTY List of Lights and Fog Signals Vol. D Eastern Atlantic Ocean, Western Indian Ocean, Arabian & Red Seas
- NP203 ADMIRALTY Tide Tables (ATT) Volume 3, Indian Ocean
- NP281(1) ADMIRALTY List of Radio Signals Maritime Radio Stations Europe, Africa and Asia (Excl for Far East)
- NP282 ADMIRALTY List of Radio Signals Volume 2 Radio Aids to Navigation, Satellite Navigation Systems, Differential GPS (DGPS) Legal Time, Radio Time Signals and Electronic Position Fixing Systems
- NP283(1) ADMIRALTY List of Radio Signals Volume 3 Part 1 Maritime Safety Information Services. Europe, Africa and Asia (excluding the Far East)
- NP284 ADMIRALTY List of Radio Signals: Volume 4, Meteorological Observation Stations
- NP285 ADMIRALTY List of Radio Signals: Volume 5, Global Maritime Distress and Safety System



- NP286(8) ADMIRALTY List of Radio Signals: Volume 6 – Part 8, Pilot Services, Vessel Traffic Services and Port Operations
- NP1 ADMIRALTY Sailing Directions Africa Pilot Vol 1
- NP2 ADMIRALTY Sailing Directions Africa Pilot Vol 2
- NP3 ADMIRALTY Sailing Directions Africa Pilot Vol 3
- NP39 ADMIRALTY Sailing Directions South Indian Ocean Pilot

New editions published since last SAIHC May 2022

- NP77 Lights List D – E Atlantic, W Indian Ocean, Arabian & Red Seas
- NP203-23 Tide Table 3 – Indian Ocean 2022
- NP281.1 Maritime Radio Stations – Europe, Africa, Asia (excl Far East)
- NP282.1 and NP282.2 Radio Position Fixing Systems and Time Signals
- NP283.1 Maritime Safety Information Services – Europe, Africa, Asia (Gp 2)
- NP285 Global Maritime Distress & Safety

New editions to be published 2023

- NP284– Meteorological Observation Stations
- NP286 Pilot Services, VTS & Port Ops – Africa (excluding Med. Coast) , Red Sea & Persian Gulf (Gp 1)

ADMIRALTY Sailing Directions:

Admiralty Sailing Directions are maintained internally on a continuous revision cycle with new editions published as required.

ADMIRALTY Tide Tables, ADMIRALTY Lists of Lights and ADMIRALTY Lists of Radio Signals are published annually.

Full details of the ADMIRALTY publication range and their status can be found on the ADMIRALTY website (<https://www.admiralty.co.uk/>).

Digital Publications

4.2 The UKHO produces a range of ADMIRALTY Digital Publications which are digital versions of ADMIRALTY paper Nautical Publications to support the IMO mandate of ECDIS. These publications provide mariners with additional functionality, are subscription-based, and automate the task of updating through Notice to Mariners.

- **ADMIRALTY e-Nautical Publications (AENP):** e-Book versions of ADMIRALTY Sailing Directions and reference publications.
- **ADMIRALTY Digital List of Lights (ADLL):** Digital versions of ADMIRALTY lights publications.
- **ADMIRALTY TotalTide (ATT):** Digital versions of ADMIRALTY tidal publications.
- **ADMIRALTY Digital Radio Signals (ADRS):** Digital versions of ADMIRALTY radio signal publications.



4.3 The **ADMIRALTY Digital Catalogue** (ADC) can be downloaded free from the 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 chart coverage within the region, and to show the latest edition dates of both charts and publications.

5. MARITIME SAFETY INFORMATION

5.1 Responsibilities. The UK's principal responsibility within the SAIHC region is for its UK Overseas Territories - namely St Helena, Ascension and Tristan da Cunha, along with those Commonwealth of Nations countries where the United Kingdom is the producer of primary charting, including Kenya, Seychelles and Tanzania.

5.2 UK maintains close liaison with the co-ordinators for NAVAREA VII (South Africa - which covers most of the SAIHC area) and NAVAREA VIII (India - which covers a small part of the area to the NE and East). Meteorological Information and Navigational Warnings are promulgated on SafetyNET through Inmarsat; coastal warnings are broadcast on NAVTEX from stations at Walvis Bay, Cape Town, Port Elizabeth, Durban, Cape Columbine, Mauritius and Mahe. Walvis Bay NAVTEX, which has been out-of-service since February 2011, remains temporarily suspended. Coastal warnings are also available on SafetyNET for the areas around Mayotte, Reunion, and the Kerguelen Islands.

5.3 GMDSS. There is a limited MSI broadcast within the SAIHC region with only Seychelles, Mauritius, South Africa and Namibia having established GMDSS or WWWNS facilities. Whilst the International SafetyNET service has been in existence for many years, expansion of NAVTEX services are required, particularly to cover the area of the Mozambique Channel.

5.4 The UK contributes at international forums that consider MSI matters, including IHO World-Wide Navigational Warning Service Sub-Committee and numerous IMO Committees and Sub Committees. UK currently provides the Chair and Secretary of the IMO International NAVTEX Co-ordinating Panel.

5.5 Notices to Mariners. The current ADMIRALTY weekly Notices to Mariners are now supplemented by daily updates; these are available on the UKHO website. Assistance with promulgating Notices to Mariners and other paper and electronic chart correcting material should also be encouraged through co-operation with other hydrographic offices in the region if required.

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 Ascension Island, St Helena and Tristan da Cunha within the SAIHC area. The latest status is correctly depicted within C-55.

6.2 The UK has also provided assistance to update C-55 entries to other countries, including Kenya, Seychelles, and Tanzania, where the UKHO is the producer of primary charting, recognising 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 The UK fully supports the IHO Capacity Building Sub-Committee (CBSC) strategy, particularly its emphasis on 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. The UK will continue to contribute resources to both CBSC initiatives and to providing bilateral assistance.

7.2 The UKHO has a post dedicated to International Capacity Building. Its key aims are to ensure that capacity building is properly considered in the UKHO activity and that the UKHO's capacity building activities are fully coordinated. It acts as the initial point of contact for the UKHO involvement in IHO capacity building activities, including UK involvement in regional hydrographic commission initiatives and IHO CBSC activities.

Training provided by the UKHO - International Training Academy (ITA)

7.3 The International Training Team drives forward the continuous skills and knowledge development of our global network through world-class training. Details of all UKHO awarded training opportunities currently offered by the ITA are provided on the UKHO website or by contacting internationaltraining@ukho.gov.uk



The UKHO recognises the importance of continued training and to enable this globally continues to develop courses which can be supported through its Learning Management System (LMS). The LMS acts as the learning portal for training for both UK and overseas delivery. This offering ensures all delegates experience ease of access to online seminars and interactive learning material across multiple time zones.



The UKHO International Training Team are pleased to announce that the 15th Nippon Funded GeoMAC CAT-B Course commenced on 17th July 2023. This is the first cohort to study in the new bespoke training environment at the UKHO HQ. This course includes a candidate from Kenya within the SAIHC region.

Please visit [HERE](#) for a detailed list of all UKHO International Training Courses.

Royal Navy Training in Hydrography, Meteorology and Oceanography

7.4 The Royal Navy's Maritime Warfare School (MWS), through a dedicated HM Training Unit in Plymouth delivers courses which are nationally and internationally certified, with accreditation provided by the International Hydrographic Organization (IHO), the World Meteorological Organization (WMO), The University of Plymouth, the National Vocational Qualification (NVQ) Council, and the Institute of Marine Engineers, Scientists and Technicians (IMarEST).

7.5 Courses include the 14-week FIG/IHO Category B hydrographic course that is an element of RN Officers' combined HM training. After four years' experience, of which a minimum of two years on a platform conducting hydrographic surveys, the Cat B graduates wishing to become specialists in surveying return for the 22 weeks HM Advanced Survey Course (HMAS). This course diverged from the IHO Category A accreditation in 2021 as previous Cat B knowledge cannot be considered in attaining Category A status. The course was reviewed in 2020 to encompass modern survey and defence requirements retaining its University of Plymouth Post Graduate Diploma accreditation and meets UK defence requirements for military data gathering and exploiting collected information.

7.6 Both courses are open to attendance by overseas personnel (military and civilian) and applications are encouraged for these highly competitive courses.

7.7 There is scope to deliver customised training for overseas naval and civilian students in Hydrographic Survey Planning, Data Gathering and Data Processing as well as initial Data Management to meet the needs of developed and developing Hydrographic Offices. Such courses can, by mutual agreement, involve both training at the UKHO and at MWS HM in HMS DRAKE.

8. OCEANOGRAPHIC ACTIVITIES

8.1 UKHO's Ocean Environment Team maintains databases of oceanographic information collected by the Royal Navy or obtained during exchange with other nations. Data exchange is an important source of data and so UKHO is always keen to discuss new exchanges. UKHO has participated in the Argo project and in the UN's International Oceanographic Data Exchange (IODE), to work with the international oceanographic community. On behalf of the Royal Navy, UKHO has made periodic releases of data to international data centres including US NODC, for inclusion in the World Ocean Database and the British Oceanographic Data Centre (BODC).

8.2 The UK national repository for oceanographic data collected for scientific purposes is the British Oceanographic Data Centre (BODC) (<https://www.bodc.ac.uk/>) which includes data from UK-sponsored research cruises anywhere in the world. BODC is funded by the Natural Environment Research Council (NERC) and located in Liverpool, UK. The UK's main centre for scientific oceanography is the National Oceanography Centre (NOC) in Southampton (<https://www.noc.soton.ac.uk/>).

8.3 Global sea levels are monitored as part of the GLOSS project, by the Permanent Service for Mean Sea Level (PSMSL). This operation is based at the National Oceanographic Centre in Liverpool.

8.4 The UKHO participates in and Chairs the IHO Tides, Water Levels and Surface Currents Working Group (TWCWG). Part of the WG activities involve Member States activities and experiences with long-term [permanent] 'National' Tide Gauge Networks.

8.5 The UKHO is not directly tasked with owning and operating these at the UK national level – this is the remit of the National Tidal and Sea Level Facility (NTSLF, www.ntsfl.org) previously operated by the UK Environment Agency with a recent (summer 2021) contract to maintain and upgrade the National Tide gauge Network (NTGN) awarded to the commercial company OceanWise (<https://www.oceanwise.eu/>).

8.6 However, under the auspices of the OTSMP, the UKHO has been working with external contractors to establish permanently installed tide gauges in Overseas Territories including, to-date, Bermuda, Cayman Islands and the Turks and Caicos Islands. As well as being an essential part of the OTSMP work, they form an integral and important contribution to global sea level monitoring networks. These gauges now feed into the NOAA GOES (Geostationary Operation Environmental Satellites) Collection System and are linked into the IOC Sealevel Monitoring System. Such permanent installations are instrumental for the scientific study of long-term sea-level rise. In addition, they are now also integrated into regional tsunami warning systems and provide essential observations for use in coastal inundation (storm surge) modelling studies.



8.7 Building on this initial work, the UKHO has also recently awarded a five-year contract framework to Oceanwise to further expand the network with the installation of Marine Environmental Monitoring Stations (MEMS), which consist of a range of equipment including tide gauges, meteorological stations, Automatic Identification System (AIS), and Continuously Operating Reference Systems (CORS) for GNSS observations. The first installations under the new framework have been completed this year in Montserrat and Anguilla.

9. SPATIAL DATA INFRASTRUCTURES

9.1 The UKHO is actively developing the concept of Marine Spatial Data Infrastructure in line with the United Nations Committee of Experts on Global Geospatial Information Management (UNGIM) Integrated Geospatial Information Framework.

9.2 The UK does not yet have a recognised NSDI however, a UK Geospatial Commission was established in 2017 with partner bodies consisting of several national geospatial agencies, including the UKHO. This Commission is focused on unlocking the value of geospatial data within the UK and is

currently establishing a UK Geospatial Strategy which is likely to form the foundation of a NSDI soon. The Commission is currently supporting several collaborative projects being undertaken by the UKHO which all have strong links to NSDI principles.

9.3 The UKHO is an active member of the UN-GGIM Working Group on Marine Geospatial Information (WG-MGI) and Open Geospatial Consortium (OGC) Marine Domain Working Group (DWG), contributing towards Federated MSDI development and methodologies. The UKHO has recently upgraded its membership of the OGC from Technical to Strategic, bringing additional marine and maritime focus to the development of emerging technology and standards. The UKHO is also a member of the IHO MSDI Working Group and Chairs the SWPHC MSDI WG, SAIHC MSDI WG, and is represented on the BNSHC MSDI WG. The UKHO has also provided briefings on MSDI to other RHCs which do not yet have MSDI WGs, including half-day training and awareness workshops with a particular focus on MSDI Governance.

9.4 The UKHO leads UK input into the UN-GGIM Americas Caribbean Geospatial Development Initiative (CARIGEO). We are actively working at creating the appropriate standards to support national and international MSDIs, a good example is our sponsorship of the OGC S-121 pilot study to develop a standard for the exchange of Maritime limits and boundaries, and our current co-sponsorship of the Federated Marine Spatial Data Infrastructure Pilot that consider S100 within an MSDI.

9.5 The UKHO is currently developing an IGIF-MSDI Maturity Roadmap to combine elements from the IGIF and MSDI ecosystem(s) of resources, as a simplified “Quick Start” guide or “Menu of Options” for developing nations seeking to implement an IGIF-aligned MSDI using OGC standards. This output seeks to avoid duplication and complexity, serving as an optional stepping-stone until interested nations decide to fully engage with the full spectrum of IGIF and MSDI resources (currently around 800 pages across both communities, hosted by UN-GGIM and IHO, excluding commercial, academic, and national publications). The first version of this IGIF-MSDI Maturity Roadmap is being sponsored by UKHO within the OGC FMSDI project initiative, with contributions from the World Bank Group, UN Statistics Division (UN-GGIM) and the Chairs of the WG-MGI (United States NOAA).

9.6 The UKHO is a lead sponsor of the Marine Environment Data Information Network (MEDIN) which coordinates the delivery of INSPIRE obligations to Findable, Accessible, Inter-operable and Re-usable (FAIR) standards. The UKHO is actively engaged with projects directed by the UK Geospatial Commission to improve the handling and publication of Government datasets. This work involves improving the discoverability of data as well as working towards a set of shared principles within UK Government. The UKHO also continues to produce Electronic Navigational Charts to the IHO S-57 standard which contains a defined structure for metadata and the modelling of maritime related features. Work is ongoing to transition to the of future IHO S-100 standards.

9.7 The UKHO has a Marine Data Portal that continues to grow and develop. As the organised gateway to our non-navigation data and services, it gives people easy and timely access to marine location-based information from seabed to surface to help them with sustainable marine decision making. The Portal allows users access to several free of charge datasets and services mainly covering UK territorial waters. The Portal also provides access to premium data sets which can be purchased. The underlying Marine Data Portal technology has the capability to host other agencies, or even other nation’s datasets.

10. AUTONOMOUS NAVIGATION

10.1 The UKHO has been engaging with several industry experts and project initiatives surrounding Maritime Autonomous Surface Ships (MASS) to try and understand the navigation data needs as momentum gathers in this area.

UKHO has proactively sought out several organisations such as Thales, Atlas Elektronik, TGP Polaris and Marine AI (the team behind the historic Mayflower Project) and discussed the issues with current products and services. To this end, we have provided data to stimulate discussions about what our industry partners see as gaps in the current offering and identify the new products going forward.

In our work with industry operators, UKHO has supplied data to facilitate discussions and allow operators

to explore what the future navigation services might look like.

The establishment of the Maritime Autonomous Surface Ships (MASS) Navigation Project Team (MASS PT) was approved at HSSC13 following a proposal by the United Kingdom, Norway, and Singapore, to address Maritime Autonomous Surface Ships (MASS) requirements on navigation data and services, of which UK is Chair. The project team has conducted an extensive gap analysis of the S-100 standards and has made several recommendations to address these gaps to the relevant Working Group and Project Team chairs to ensure S-100 is fit for purpose for both manned and unmanned navigation.

11. OTHER ACTIVITIES

UK Celebrations for World Hydrography Day (WHD)

11.1 The theme for World Hydrography Day 2023 was “Hydrography – underpinning the digital twin of the ocean”. UKHO celebrated this significant theme by creating a film all about our work on digital twins and how they will play a key role in the future of maritime navigation. This was shared with UKHO staff on WHD (21 June 2023) and via our social channels, a link to the film can be found [here](#).

11.2 UKHO Publication in IHR

African Great Lakes and Rivers sub Working Group (AGL&RsWG) - Collaboration through practical demonstration. This note, to be published in the November 2023 edition of the IHR highlights the successful collaboration between SAIHC Member States, the AGL&RsWG, industry and other organisations. Malawi hosted, through the Ministry of Lands and most AGL&RsWG members were represented. A plenary meeting in Lilongwe was followed by a hydrographic survey demonstration at Monkey Bay. The demonstration was sponsored by Kongsberg Maritime AS, Sensors & Robotics division and delivered by GeoSystems. The UKHO funded attendance for AGL&RsWG members. Outcomes included, a greater awareness of shared challenges faced by regional stakeholders and collaborative solutions to maximise resources.

Broader UK Government Work

11.3 UK Centre for Seabed Mapping (UK CSM). In support of a more integrated Marine Geospatial Sector for the UK, both nationally and internationally, the UKHO has created the UK CSM, with a core focus on bathymetry and its associated data. Through increased coverage, quality and access of seabed mapping data collected from public money or in collaboration with industry, the UK CSM aims to enable a more unified voice to promote seabed mapping, and the resultant data, as the foundation data set to ocean mapping. The UK CSM is also a UK government voluntary commitment to the UN Ocean Decade and a policy commitment within the National Strategy for Maritime Security.

11.4 Seabed 2030. Following the signing of a data sharing Memorandum of Understanding between the UKHO and the SB2030 Project, and a successful data sharing trial with the Southern Ocean Regional Centre, the UKHO are delighted to announce that they have now started supplying bathymetric survey data for non-UK waters to the General Bathymetric Chart of the Oceans (GEBCO). Data which have been shared include 46,482 km² around South Georgia and Antarctica, 16,364 km² in the Caribbean region and a further 5104 km² in the Atlantic which covers the islands of Tristan da Cunha, Saint Helena and Ascension.

Where UKHO is Primary Charting Authority and have the appropriate permissions, the UKHO will continue to share (100m) gridded bathymetry data with SB2030 to help improve the GEBCO grid product. The UKHO will not be sharing full resolution raw survey data. The UKHO is also supportive of other global bathymetry initiatives, such as EMODNET, where we intend to contribute data using the same rules as SB2030.

We have also entered a technical cooperation agreement with Teledyne Caris and Seabed 2030 which will allow the Seabed 2030 Regional and Global Centres to use the ADMIRALTY GAM service. The ADMIRALTY GAM Service was developed by the UKHO and is a tool that cleans noise in single track

bathymetry survey data. This tool will help to improve the speed and human effort associated with processing of bathymetry data. The Admiralty GAM service was recently released at Ocean Business 2021 and is now also available commercially.

UKHO will also continue to actively engage with associated working groups at the IHO and Regional Hydrographic Commissions.

11.5 UK Ocean Priorities. The UK is a global ocean leader, continuing to take action and push for increased ambition on climate, pollution, and biodiversity loss issues working with counterparts in the UK and overseas to help achieve these aims.

- Agreement on draft text of a legally-binding instrument on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction – the BBNJ Agreement – was reached at the UN on 4 March. This is a landmark agreement for biodiversity and will mean much greater protection for over 60% of the global ocean. It will play a key role supporting the delivery of the Kunming-Montreal Biodiversity Framework, including helping to achieve the target of protecting 30% of the ocean by 2030.
- The UK led efforts to ensure that the Kunming-Montreal Global Biodiversity Framework (GBF) agreed at CBD COP15 in December 2022 delivered positive and meaningful outcomes for the ocean. Centred around the mission to halt and reverse global biodiversity loss by 2030, the GBF includes global commitments to protect at least 30% of the ocean (known as 30by30) and restore at least 30% of degraded ecosystems
- The UK continues to lead international partnerships to support global implementation, including the Global Ocean Alliance (GOA). Following COP15, the GOA will continue advocating for international ocean action, including by supporting implementation of the GBF in the ocean.
- The UK is a leading international voice in tackling marine plastic pollution and co-sponsored the proposal to prepare a new international legally binding plastic pollution treaty. At recent negotiation sessions the UK has called for ambitious outcomes, including seeking agreement to restrain and reduce the production and consumption of primary plastic polymers to sustainable levels. Draft treaty text is now being drawn up ahead of the next negotiation session, in November.
- The £500million Blue Planet Fund, jointly managed by Defra and FCDO, is supporting developing countries and vulnerable coastal communities around the world adapt to climate change and build sustainable, prosperous coastal economies.

In UNFCCC, the UK is working to deliver on the ambition in COP26's Glasgow Climate Pact to integrate ocean across the UNFCCC and support the implementation of ocean action in national plans.

Background and Key 22/23 Information

Conferences:

11.6 International Partnership on Blue Carbon (IPBC). Since 2018, the UK has been a member of the International Partnership for Blue Carbon (IPBC). The IPBC, coordinated by the Australian Government, works across society to build awareness, share knowledge, and accelerate action on the significant role of blue carbon ecosystems in climate change adaptation and mitigation. The UK announced its intention to join the Partnership at the Our Ocean Conference in 2018. Our membership of the IPBC enables the UK government to lead on a critical sector of the environment on the global stage. It creates multiple strategic benefits for, and synergies with, existing work across government, and complements our project delivery with a commitment to leading international policy. In 2022, the Partnership has 50 Partners, of which 17 are country government agencies. This includes representation from states including France, Norway, Portugal, and the Commonwealth Blue Charter.

11.7 Blue Belt Programme. In support of the UN Global Goals for Sustainable Development, the UK Government has committed £20 million to a four-year programme providing long term protection and sustainable management of over four million square kilometres of marine environment across the UK OTs. The Blue Belt Programme supports delivery of the UK Government’s manifesto commitment to provide long term protection of:

- improve scientific understanding of the marine environment;
- develop and implement evidence based, tailored marine management strategies including surveillance and enforcement; and
- ensure management is sustainable and long term.

The Programme is being delivered in partnership between the Centre for Environment, Fisheries and Aquaculture Science (Cefas) and the Marine Management Organisation (MMO) with the UK OTs on behalf of the Foreign, Commonwealth and Development Office and the Department for Environment, Food and Rural Affairs (DEFRA). Further information can be found in the [Blue Belt Programme Annual Update 2022/23 \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)

11.8 UNFCCC COP27. The UK continued to champion ocean action at UNFCCC COP27, which recently concluded in Sharm EL Sheikh on 19 November. We welcome the progress made for ocean under the Sharm EL Sheikh Implementation Plan, maintaining the momentum for ocean action from previous COPs. The negotiated outcome builds on the ocean outcomes agreed under the Glasgow Climate Pact (paras 45-46) and includes references to the cryosphere (para 5), blue carbon ecosystems (para 15), and nature-based solutions (para 48).

Defra’s SoS Thérèse Coffey, Lord Benyon and FCDO’s Lord Goldsmith also participated in a number of ocean events at COP27 and the UK made the following announcements:

- Pledged an additional £12 million to the Ocean Risk and Resilience Action Alliance (ORRAA) to protect and restore vulnerable coastal communities and habitats.
- Endorsed the Mangrove Breakthrough led by the UNFCCC High Level Climate Champions and Global Mangrove Alliance.
- Continued to support the Global Ocean Decade Programme for Blue Carbon (GO-BC), which launched its new graduate scheme for blue carbon early career researchers.

The UKHO’s International Activities

11.9 Due to the UKHO’s technical expertise, primary charting responsibilities and UK OTs the UK is represented at the following groups:

International Hydrographic Organization - HSSC		Chair/Vice Chair	Member
HSSC	Hydrographic Services and Standards Committee		x
DQWG	Data Quality Working Group		x
ENCWG	ENC Standards Maintenance Working Group	x	x
NCWG	Nautical Cartography Working Group	x	x
NIPWG	Nautical Information Provision Working Group		x
S-100WG	S-100 Working Group		x
S-101PT	S-101ENC Project Team	x	x
S-102PT	S-102Bathymetric Surface Project Team		x
S-121PT	S-21 Maritime Limits and Boundaries Project Team		x
S-124PT	S-124 Navigational Warnings Project Team		x
S-130PT	S-130 Polygonal Project Team		x
S-131PT	S-131 Marine Harbour Infrastructure Project Team		x
TWCWG	Tides, Water Level & Currents Working Group	x	x
HSWG	Hydrographic Survey Working Group	x	x
MASS PT	Maritime Autonomous Surface Ships Navigation Project Team	x	x

International Hydrographic Organization - HSSC		Chair/Vice Chair	Member
ABLOS	Advisory Board on the Law of the Sea		x
IRCC	Inter-Regional Coordination Committee		x
CBSC	Capacity Building Sub-Committee	x	x
CSBWG	Crowd-sourced Bathymetry Working Group		x
MSDIWG	Marine Spatial Data Infrastructure Working Group		x
WENDWG	Worldwide ENC Database Working Group		x
WWNWS	Worldwide Navigational Warning Service		x
HCA	Hydrographic Commission on Antarctica		x
MACHC	Meso American and Caribbean Sea Hydrographic Commission	x	x
MBSHC	Mediterranean and Black Seas Hydrographic Commission		x
NIOHC	North Indian Ocean Hydrographic Commission		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
EAtHC	Eastern Atlantic Hydrographic Commission		x
International Maritime Organization		Chair/Vice Chair	Member
NAVTEX	NAVTEXT Coordination panel	x	x
International Association of Marine Aids to Navigation and Lighthouse Authorities		Chair/Vice Chair	Member
ENAV	E-navigation Committee		x
Other International Bodies		Chair/Vice Chair	Member
IAU	International Astronomical Union		x
CIRM	Comité International Radio-Maritime		x
BALTICO	Navarea I member states meeting		x
ISO	International Standards Organisation		x
OGC	Open Geospatial Consortium		x
UNGGIM WGMGI	UNGGIM Working Group on Marine Geospatial Information		x
CARIGEO	Caribbean Geospatial Development Initiative		x

12. CONCLUSION

12.1 UK continues its strong commitment to the Southern African and Islands region, through Chair of SAIHC. Furthermore, we continue our primary charting activity and efforts in developing regional hydrographic self-sufficiency through capacity building measures and more recently the delivery of the Southern African and Islands governance workshop funded by UK government. Outside of this specific programme, UK continues to explore wider funding opportunities to benefit the Mariner and Marine User. Building on the previous year where we delivered more than 3,000 training places to the global hydrographic community, we continue to offer and deliver significant training. A candidate from SAIHC (Kenya) is on the current GeoMAC CAT B course, being delivered at our HQ in Taunton.

12.2 UKHO has continued to explore MSDI opportunities for SAIHC, coordinating the outcomes from the African Great Lakes and Rivers Sub Working Group (AGL&RsWG). A hosted portal platform is currently under investigation. In addition, UK has taken forward the African Great Lakes and Rivers Sub Working Group (AGL&RsWG). This exciting development has seen success through regional meeting and practical demonstration hosted by Malawi in December 2022 with key support from industry partners.

12.3 The provision of adequate ENC coverage, in support of the IMO carriage requirement for ECDIS, presented a challenge in the SAIHC region as well as other regions. Good progress continues to be made to improve the availability and quality of suitable ENC coverage along with digital publications to support the digital bridge. UKHO has supported ICCWG to propose regional ENC scheme options.

12.4 Noting the fast approach of second-generation digital navigation requirements, delivered through the S100 family of products and services, the UKHO is continuing the journey to meet this demand as part of its efforts to develop its Marine Geospatial Information credentials.

UKHO POINTS OF CONTACT

UKHO Website: www.gov.uk/ukho

The general UKHO address is:

United Kingdom Hydrographic Office,
Admiralty Way,
TAUNTON
Somerset
TA1 2DN
United Kingdom

For further information on this report, UKHO representation in international fora, and UKHO activities in general, please contact:

E-mail: IBTE@ukho.gov.uk

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For bilateral arrangements and other international partnering matters within the SAIHC region, please contact:

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For matters related to Sailing Directions within the SAIHC region, please contact:

Email: SDImpactAnalysis@ukho.gov.uk

Input to the IHO Publication P-5 (Yearbook)
United Kingdom of Great Britain and Northern Ireland

Country information / Informations sur le pays/ Información sobre el país	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	40632 143 tons (IHO Online Form System)
National day -Fête nationale -Fiesta nacional	The Third Saturday in June (The King's Official Birthday)
-Date first joined IHO -Date d'adhésion à l'OHI -Fecha de adhesión a la OHI	21/06/1921
-Date ratification Convention -Date de ratification de la Convention -Fecha de ratificación de la Convención	03/05/1967
Official Representative to IHO (as designated by Member Government) UNITED KINGDOM HYDROGRAPHIC OFFICE	
Contact information/ Informations de contact / Información de contacto	
-National Hydrographer or equivalent -Directeur du service hydrographique ou équivalent -Director del Servicio Hidrográfico o equivalente	National Hydrographer RAdm Angus Essenhigh Tel: +44 (0) 1823 484444 E-mail: IBTE@ukho.gov.uk Agency address: Admiralty Way, TAUNTON, Somerset, TA1 2DN, United Kingdom of Great Britain and Northern Ireland
Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	
-Web site -site web -sitio web	http://www.gov.uk/UKHO
Agency information	
Date of establishment	12 August 1795
Relevant National Legislation	- Order in Council 1795 under King George III - Government Trading Funds Act 1973 as amended by the Government Trading Act 1990 and the Finance Acts 1991, 1993 and 2001 - Civil Service (Management Functions) Act 1992 - The Hydrographic Office Trading Fund Order 1996 (legislation.gov.uk) The Hydrographic Office Trading Fund Order 1996 SI No. 773 of 1996 - United Kingdom Hydrographic Office Framework Document update February 2022 - Memorandum of Understanding with the Maritime and Coastguard Agency to enable UK to meet obligations under Safety of Life at Sea 1974 Convention where compliance lies within UK Hydrographic Office's expertise (as set out in UK

	Hydrographic Office's Public Task Annex A Framework Document updated February 2022)
Top level parent organization	Ministry of Defence
Principal functions of the organization or the department	Publication of analogue and digital navigational charts and supporting publications, transmission of maritime safety information, Notices to Mariners (weekly), provision of geodetic, oceanographic and geophysical data and publications to meet defence requirements. Provision of tidal information and Ocean currents.
Number of INT charts published	970
Total number of paper charts	3500 (Approx)
Number of ENC cells published	1771 GB cells
Number of Raster Charts	582
Number of Other Charts	52
Type of publications produced	Full suite of Admiralty Charts and Publications including some digital products. For details see UK Catalogue of Admiralty Charts and Publications (NPI 31) or the UKHO web site: http://www.gov.uk/UKHO

Other Organizations providing national Hydrographic Services
Autre Organismes fournissant des services hydrographiques au niveau national.

HYDROGRAPHER OF THE ROYAL NAVY

Contact information / Informations de contact / Información de contacto	
Head of the Hydrographic Office (if different from the person indicated above) -Directeur du service hydrographique (si différent de la personne indiquée ci-dessus) -Jefe del Servicio Hidrográfico (si es diferente de la persona indicada anteriormente)	Head of Hydrographic Office - Royal Navy. Hydrographer of the Navy Cdr Adam COLES (Commander HM) Tel: + 44 (0) 3001618853 Fax: + 44 (0) 1752 555844 E-mail: Adam.Coles222@mod.gov.uk Agency address: Navy Command Headquarters, Leach Building, Whale Island, Portsmouth, Hampshire, PO2 8BY, United Kingdom of Great Britain and Northern Ireland
Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	Special postal address: SURFLOT, Defiance Building HM Naval Base Devonport, Plymouth, Devon, PL2 2BG, United Kingdom of Great Britain and Northern Ireland
Agency information / Information sur l'agence / Información sobre la agencia	
Top level parent organization -Organisme mère -Organización asociada de nivel superior	Ministry of Defence - Fleet Commander
Principal functions of the organization or the department -Attribution principales de l'organisme ou du département - Principales funciones de la Organización o el departamento	Commander of RN ships, units and personnel engaged in collection analysis and dissemination of all forms of geospatial information through the hydrographic, meteorological and oceanographic disciplines.

Detail of surveying vessels/ Aircraft -Détail des bâtiments hydrographiques/aéronefs -Detalle de buques hidrográficos/Aeronaves	Displacement -déplacement -Desplazamiento - Fecha de puesta en servicio	Commissioning Date -date de mise en service	Crew -équipage -Personal
HMS SCOTT (H131)	13500	1997	63
HMS PROTECTOR	5000	2011	88
HMS MAGPIE (H130)	37	2018	12
Other information of interest -Autres informations utiles -Otra información de interés	<p>HM personnel are also borne in other RN vessels. Commander Operations directs all hydrographic, meteorological and oceanographic support to the fleet.</p> <p>The programme for Civil hydrography in UK waters is managed by the Maritime & Coastguard Agency and is outsourced to the commercial sector</p> <p>Training in hydrographic surveying and meteorology is provided for naval personnel by the Commander Fleet Operational Training - Hydrography, Meteorology and Oceanography</p> <p>HMS DRAKE HM Naval Base Devonport PLYMOUTH Devon PL2 2BG</p> <p>Details of courses are available at: www.mod.uk/DefenceInternet/AboutDefence/Whatwedo/Training and Exercises/IDT/IDTRN</p>		

Input to the IHO Publication C-55 (Status of Hydrographic Surveying and Charting Worldwide)
Country: United Kingdom of Great Britain and Northern Ireland – Ascension

C-55 Summary for:				Comments on Charts:
Country:	United Kingdom of Great Britain and Northern Ireland			2021 HI1751 fully updated on GB ENC's. New Editions of paper charts 1691 and 1771 published July 2023 to include this data.
Country Iso Code:	UK			
Country SubCode:	SH-AC			
INT Region:	H			
Country/Depend	Ascension			
Last updated:	18/07/2023			
Provided by:	UK			
Chart coverage	Passage (%)	Coastal (%)	Port (%)	
INT	100	100	100	Comments on Surveys: HI1751 September-October 2021. HMS Protector obtained high quality bathymetric data around Ascension Island to support the safety of navigation. Overseas Territories Seabed Mapping Programme (OTSMP). 2-1835m 2022 Full coastline satellite derived bathymetry coverage.
RNC	100	100	100	
ENC	100	100	100	
Status of Paper Charts				
Paper charts with depths in meters (%)			100	
Paper charts referenced to a satellite datum (%)			100	
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m	47	25	28	
> 200m	0	0	100	
MSI	Y/N	Comments on MSI:		
Local warning	Y	Local Authority responsibility - no requirement to promulgate internationally		
Coastal warning	N			
Nav warning	Y	Via NAVAREA VII Coordinator, South Africa and SafetyNet		
Port warning	Y	Through UKHO		
GMDSS	Y/N	Comments on GMDSS:		
Master Plan	N			
Area A1	N			
Area A2	N			
Area A3	N			
NAVTEX	N			
SafetyNet	N	Via NAVAREA VII Coordinator, South Africa		

Input to the IHO Publication C-55 (Status of Hydrographic Surveying and Charting Worldwide)
Country: United Kingdom of Great Britain and Northern Ireland – St Helena

C-55 Summary for:				Comments on Charts:
Country:	United Kingdom of Great Britain and Northern Ireland			New large scale ENC coverage published early 2023, fully updated for HI1751. A New Edition of chart 1771 published 27th July 2023. A new large scale paper chart of St Helena is being compiled.
Country Iso Code:	UK			
Country SubCode:				
INT Region:	H			
Country/Depend:	St Helena			
Last updated:	18/07/2023			
Provided by:	UK			
Chart coverage	Passage (%)	Coastal (%)	Port (%)	
INT	100	100	100	Comments on Surveys:
RNC	100	100	100	
ENC	100	100	100	
Status of Paper Charts				HI1751 September-October 2021. HMS Protector obtained high quality bathymetric data around Saint Helena to support the safety of navigation. Overseas Territories Seabed Mapping Programme (OTSMP). 4-1687m 2004 HMS Scott. 2-4253m. 2019 Alcatel Submarine Networks, Cable survey. 2022 Full coastline satellite derived bathymetry coverage.
Paper charts with depths in meters (%)			100	
Paper charts referenced to a satellite datum (%)			100	
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m	42	1	57	
> 200m	1	0	99	
MSI	Y/N	Comments on MSI:		
Local warning	Y	Local Authority responsibility - no requirement to promulgate internationally		
Coastal warning	N			
Nav warning	Y	Via NAVAREA VII Coordinator, South Africa and SafetyNet		
Port warning	Y	Through UKHO		
GMDSS	Y/N	Comments on GMDSS:		
Master Plan	N			
Area A1	N			
Area A2	N			
Area A3	N			
NAVTEX	N			
SafetyNet	N	Via NAVAREA VII Coordinator, South Africa		

Input to the IHO Publication C-55 (Status of Hydrographic Surveying and Charting Worldwide)
 Country: United Kingdom of Great Britain and Northern Ireland – Tristan da Cunha & Gough Islands

C-55 Summary for:				Comments on Charts:
Country:	United Kingdom of Great Britain and Northern Ireland			
Country Iso Code:	UK			
Country SubCode:	SH-TA			
INT Region:	H			
Country/Depend:	Tristan da Cunha			
Last updated:	18/07/2023			
Provided by:	UK			
Chart coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys: "Large areas of kelp preclude inshore survey. Tristan da Cunha - navigationally significant shoal depths from surveys conducted in 2017 have been promulgated by NMs. Gough Island - inadequately surveyed 0m and deeper, however there only limited landing places and is uninhabited except for the personnel of a South African weather station. "
INT	100	100	100	
RNC	100	100	100	
ENC	100	100	100	
Status of Paper Charts				
Paper charts with depths in meters (%)			100	
Paper charts referenced to a satellite datum (%)			100	
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m	39	11	50	
> 200m	1	0	99	
MSI	Y/N	Comments on MSI:		
Local warning	Y	Local Authority responsibility - no requirement to promulgate internationally. Tristan De Cunha Radio (ZOE) provides local Weather Bulletins on request only		
Coastal warning	N			
Nav warning	Y	Via NAVAREA VII Coordinator, South Africa and SafetyNet		
Port warning	Y	Through UKHO		
GMDSS	Y/N	Comments on GMDSS:		
Master Plan	N			
Area A1	N			
Area A2	N			
Area A3	N			
NAVTEX	N			
SafetyNet	N	Via NAVAREA VII Coordinator, South Africa		

Country: United Kingdom – Ascension
 Organization: United Kingdom Hydrographic Office

Country: United Kingdom – St Helena
 Organization: United Kingdom Hydrographic Office

Country: United Kingdom – Tristan da Cunha & Gough Islands
 Organization: United Kingdom Hydrographic Office

1. Maritime area:
 N/A

2. Operational Points of Contact for the National Coordinator

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
NAVAREA I Coordinator	+44(0)1823 353448	+44(0)1823 322352	navwarnings@ukho.gov.uk

3. GMDSS Master Plan:

Not in GMDSS Master Plan

Year Y-2		Year Y-1		Year Y	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
xx	xx.x Mins	xx	xx.x Mins	xx	xx.x Mins

4. NAVTEX Coverage:
 N/A

5. Operational Issues:
 N/A

6. Contingency Planning:
 N/A

7. Capacity Building:
 N/A

8. Other Activities:
 N/A

9. National Maritime Website:
 N/A

10. Recommendations:
 N/A

11. Summary:

Any MSI in the area may be sent to UKHO for assessment and then forwarded to NAVAREA VII with recommendations for SafetyNET broadcast as a Navigational Warning.