



SAIHC14-6.40 UK National Report

United Kingdom
Hydrographic Office

UNITED KINGDOM NATIONAL REPORT

to the

**14TH SOUTHERN AFRICAN AND ISLANDS
HYDROGRAPHIC COMMISSION
(SAIHC) MEETING**

**SAINT-GILLES
FRENCH DEPARTMENT OF LA RÉUNION**

6 - 8 September 2017

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

Gov.uk/ukho

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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 www.gov.uk/government/organisations/uk-hydrographic-office/about

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 bilateral arrangements, developed in co-operation with other international government hydrographic authorities, covering a range of topics, including the use of copyright data. These also promote 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 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 prioritising 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 considerably successful in promoting co-operation between these organisations.

2.2 The UK government has created the Commonwealth Marine Economies (CME) programme which was first announced by the then Prime Minister at the 2015 Commonwealth Summit. The programme aims to support the sustainable economic growth of Small Island Developing States (SIDS) by maximising the potential of their marine resources, helping to improve their resilience to climate change and natural disasters, protect their environment and food security, and ultimately improve the livelihood of local communities. After a successful year 1, funding for year 2 has been secured and implementation is underway.

2.3 We are working in partnership on the CME programme with the Centre for Environment, Fisheries and Aquaculture Science (Cefas) and the National Oceanography Centre (NOC) to provide a wide range of expertise.

2.4 Any requests for survey assistance from nations within the SAIHC region will be considered as the UKHO has a dedicated team of specialists that manages our 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. Mr Sam Harper is the Head of International Programmes and Training and is the initial point of contact for UKHO involvement in overseas hydrographic programmes and Regional Hydrographic Commission initiatives. Further information can be obtained from (samuel.harper@ukho.gov.uk).

2.5 Over and above the CME programme, the UKHO continues to broaden its hydrographic prog portfolio and capacity building primarily but not limited to the waters of our primary charting authority countries. To this end, the UKHO has secured external Government funding to undertake seabed mapping in 2017/18

2.6 The UKHO has begun a programme of work to review the status of hydrography within the UK Overseas Territories (UKOTs), and 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 UKOTs. In particular, the UKHO seek to assess and help develop the national hydrography framework (Maritime Safety Information, legislation and Governance), potentially update surveys in priority areas for onward charting to ensure compliance with international obligations. The UK Overseas Territories within the SAIHC area are Tristan da Cunha, St Helena and Ascension. UK undertakes Primary charting of the UK Overseas Territories within the SAIHC region.

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 SAIHC region.

Paper Charts

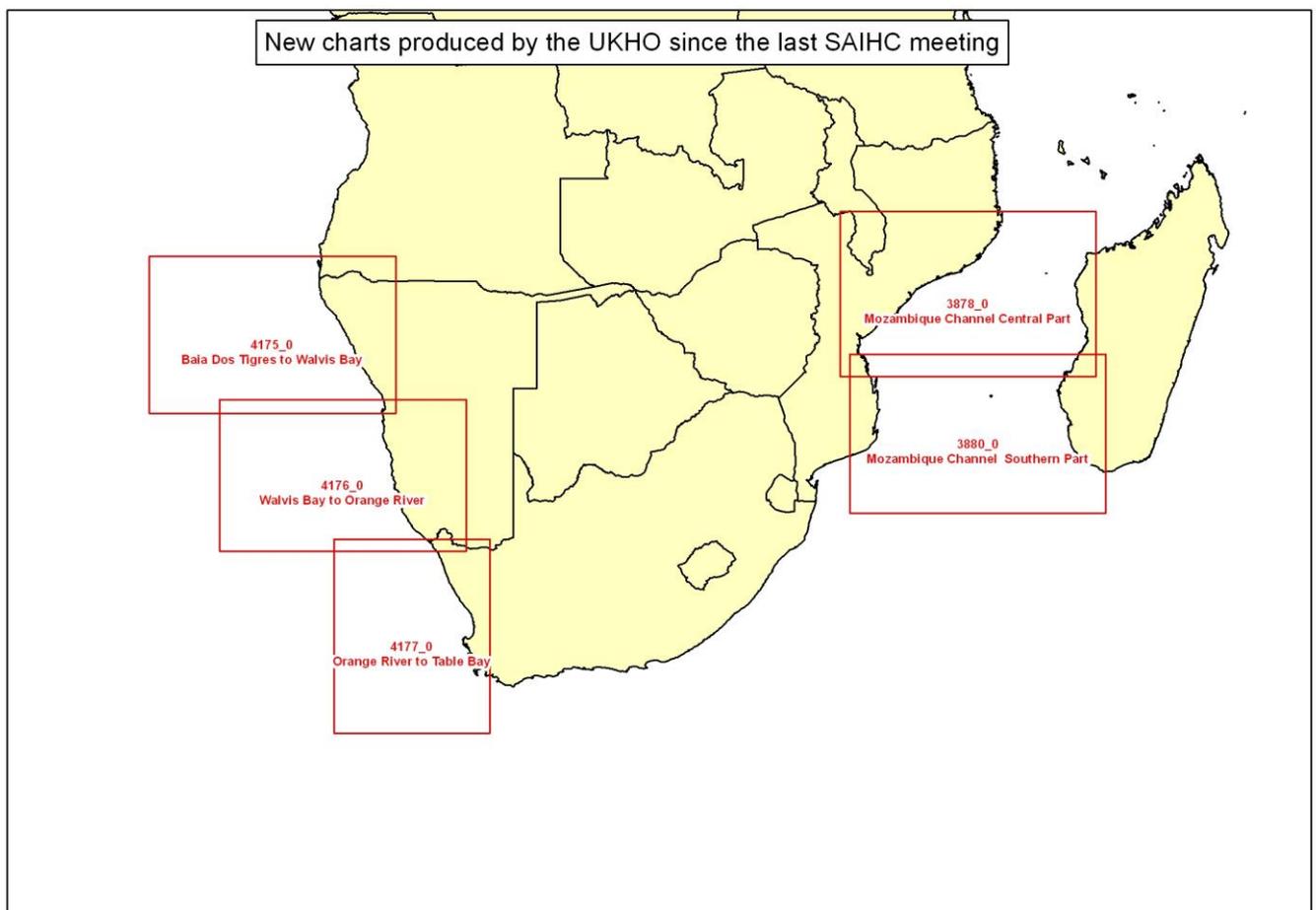


3.2 Information on UK's chart portfolio is provided on the UKHO website. The following paragraphs provide information specifically relevant to the SAIHC region.

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
644	7581	Baia de Maputo	13/04/2017
657	2512	Ponta da Cafumbila to Matadi	16/02/2017
865	-	Plans on The Coast of Tanzania	13/07/2017
1495	7736	Pointe des Chateaux to Pointe de la Riv	23/03/2017
3878	7054	Mozambique Channel, Central Part	22/12/2016
3880	7053	Mozambique Channel, Southern Part	22/12/2016
4175	2051	Baia dos Tigres to Walvis Bay	23/02/2017
GB Chart Number	INT Chart Number	Title	Published
4176	2052	Walvis Bay to Orange River	23/02/2017
4177	2053	Orange River to Table Bay	23/02/2017

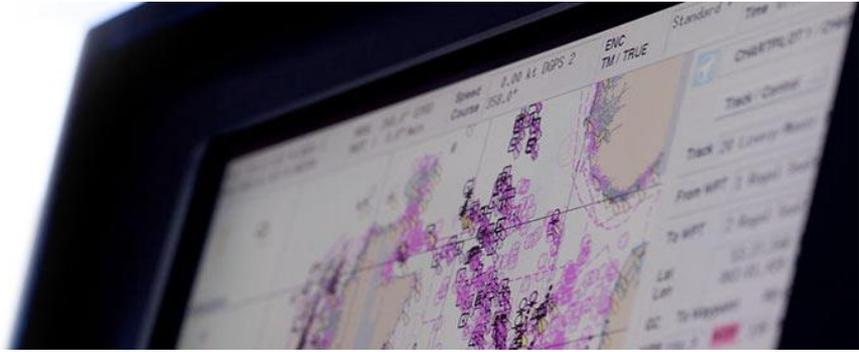
*New Charts in Red see below image



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

GB Chart Number	INT Chart Number	Title
307	2550	Cabeca Da Cobra to Cabo Ledo
664	7671	Mtwara and Approaches
718	7731	Islands North of Madagascar

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 SAIHC region.

ENCs

3.4 Within the SAIHC Region, UK has published 105 ENC cells.

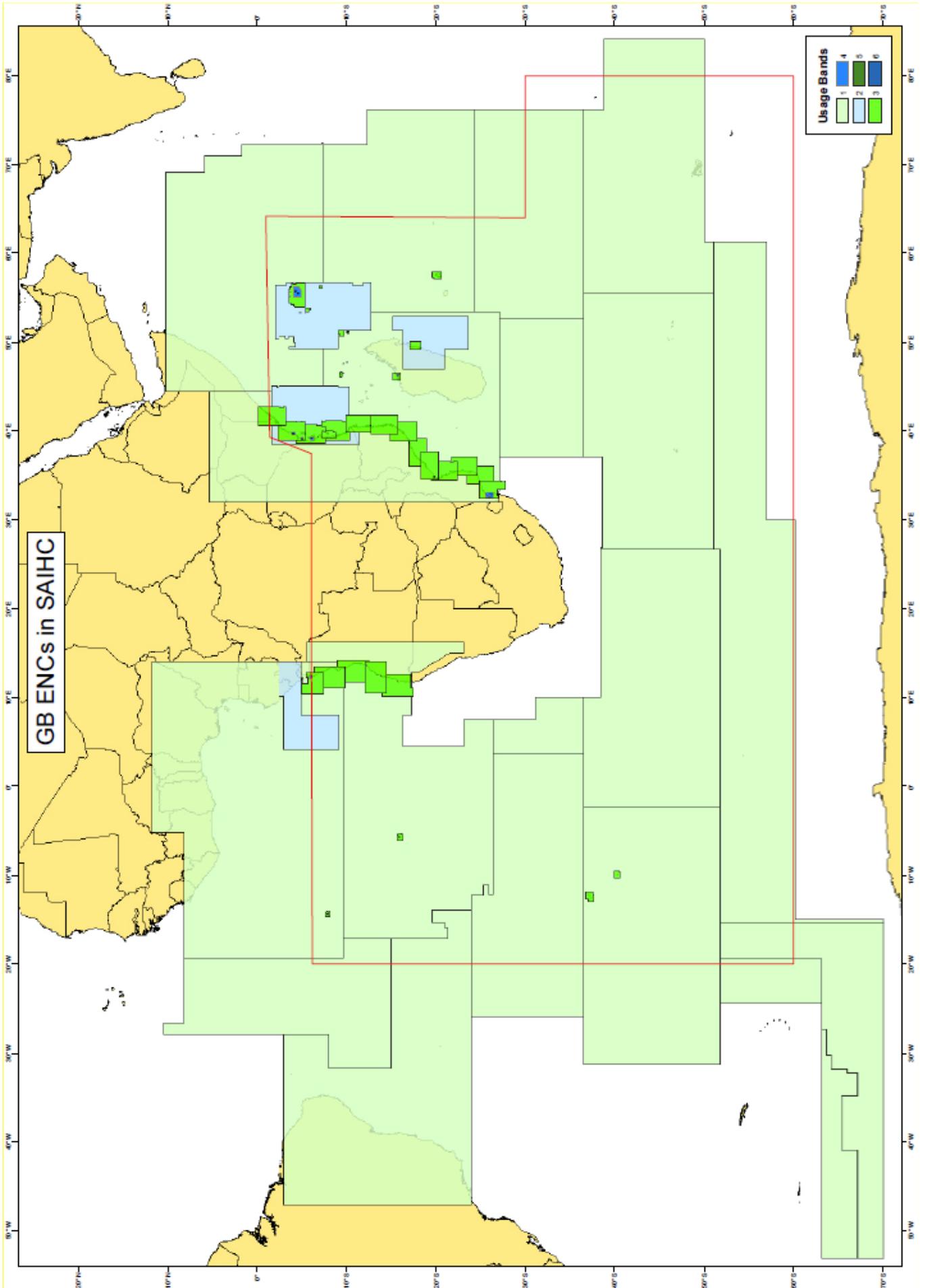
The breakdown by usage band is shown in the table below:

ENC Usage Band	Number of GB ENC's	Comment
1	18	
2	7	
3	32	
4	32	New cell GB4A0742 released in Seychelles
5	17	Three new cells released for small ports in Tanzania
6	2	

The diagram overleaf shows the current status of UK ENC's within the SAIHC Region.

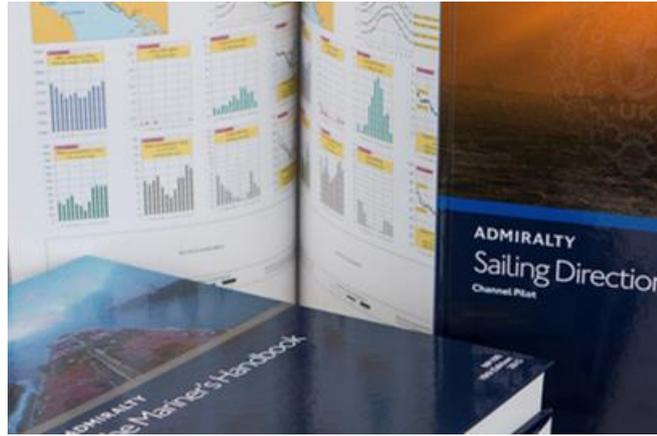
ENC Distribution

3.5 The UKHO, along with other European hydrographic offices, was a founder member of the IC-ENC RENC. IC-ENC (International Centre for ENCs) 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 and chart agents. Additional details can be found on the IC-ENC website (www.ic-enc.org). UKHO actively supports IC-ENC as the world's leading facilitator of getting carriage-compliant ENCs on to the bridges of shipping across the globe.



4. PUBLICATIONS

Paper Publications



4.1 The UK produces the following publications on an annual revision cycle within the SAIHC region:

- 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
- 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

As well as numerous other publications useful to the mariner; full details of the range and status can be found on the UKHO website (Gov.uk/ukho).

The UK produces the following publications on a three to five year revision cycle within the SAIHC region:

NP01	Africa Pilot Vol 1	2014
NP02	Africa Pilot Vol 2	2017
NP03	Africa Pilot Vol 3	2013
NP39	South Indian Ocean Pilot	2017

Digital Publications



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

4.3 The UKHO produces e-Nautical Publications (e-NPs) which are the digital version of Admiralty paper Nautical Publications. The e-NPs are subscription based pdf style e-books that are updatable by Notices to Mariners.

4.4 The ADMIRALTY Digital Catalogue (ADC) may be downloaded free from admiralty.co.uk. ADC provides a comprehensive and up-to-date reference of ADMIRALTY Products & Services. Users can search for these products by type, scale or a defined route, with weekly updates available online to keep you fully up-to-date.

5. MARITIME SAFETY INFORMATION

5.1 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 the AOR(E) and IOR satellites; coastal warnings are broadcast on NAVTEX from stations at Walvis Bay, Cape Town, Port Elizabeth, Durban, Mauritius and Mahe. Walvis Bay NAVTEX, which has been out-of-service since February 2011, is expected to be re-commissioned during first quarter 2018. Coastal warnings are also available on SafetyNET for the areas around Mayotte, Reunion, and the Kerguelen Islands.

5.3 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. South Africa has applied to IMO NAVTEX Coordinating Panel for another NAVTEX station at Cape Columbine which is expected to be operational during last quarter of 2017.

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. The latest status is correctly depicted within C-55.

6.2 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 UK fully supports the IHO Capacity Building Sub-Committee (CBSC) strategy and particularly its emphasis on putting in place 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.

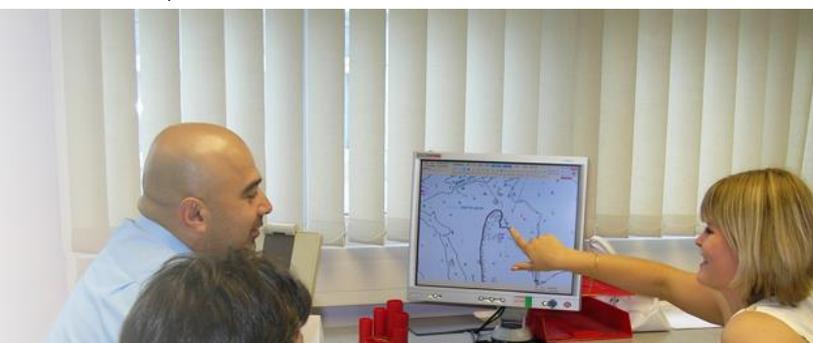
7.2 UKHO has a post dedicated to International Training & Capacity Building. Its key aims are to ensure that capacity building is properly considered in UKHO activity and that UKHO's capacity building activities are fully coordinated. It acts as the initial point of contact for UKHO involvement in capacity building activities, including UK involvement in regional hydrographic commission initiatives and IHO Capacity Building Sub Committee activities together with UKHO's own dedicated CB activities. Further information can be obtained from Mr. Jeff Bryant (jeff.bryant@ukho.gov.uk). As well as the SAIHC, Mr. Bryant is also the Capacity Building Coordinator for the MACHC and NIOHC regions.

Cartographic Training provided by UKHO



7.3 A general description of training provided by UKHO is included in the UK Generic National Report. Further details of the training opportunities offered by the UKHO can be found on the UKHO website or by contacting the UKHO's International Training & Capacity Building Manager, Mr Jeff Bryant (see above for details)

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

The IHO theme for the 2017 World Hydrography day is

"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.

Satellite Derived Bathymetry (SDB)

9.6 Following the 2014 trial of Satellite Derived Bathymetry (SDB) conducted in Antigua, the UKHO published our first chart (GB 2066) containing data collected using this technique. Whilst this was only made possible because the 'ground truth' reference data collected as part of the trial, it allowed the uncertainties to be quantified; it does mark a step change for the UKHO and the way that unconventional data gathering techniques are used.

UKHO's International Activities

9.7 Due to UKHO's technical expertise, primary charting responsibilities and UKOTs the UK is represented at the following groups:

International Hydrographic Organisation		Chair/Vice Chair	Member
ABLOS	Advisory Board on Law of the Sea		x
CSBWG	Crowd-sourced Bathymetry Working Group		x
DPSWG	Data Protection Scheme Working Group	x	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

10. CONCLUSION

10.1 UK has a strong commitment to the Southern African and Islands region, through its primary charting responsibilities, its continuing interest in developing regional hydrographic self-sufficiency through capacity building measures and more recently through its work to review the status of hydrography within the UK Overseas Territories and its commitment to the Commonwealth Marine Economies (CME) programme.

10.2 The UK, through the UKHO and the national maritime administration (Maritime Coastguard Agency), continues to pursue opportunities to improve access to bathymetric data gathering in waters around UK Overseas Territories, particularly to support long-haul deep-sea traffic.

10.3 There is a continuing challenge to link the scarce local data gathering resources into a broad programme of prioritised chart compilations and new editions.

10.4 The provision of adequate ENC coverage, in support of the IMO carriage requirement for ECDIS is planned for completion in 2018, which will present a challenge in the SAIHC region as well as other regions.

10.5 With a diverse range of shipping interests in the Region, improving the effective distribution of hydrographic publications and updates remains paramount.

Taunton, August 2017

UKHO POINTS OF CONTACT

UKHO Website: GOV.uk/UKHO

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

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