



UK Hydrographic
Office

SAIHC 15-10.1G UK National Report

UNITED KINGDOM NATIONAL REPORT

to the

**15TH SOUTHERN AFRICAN AND ISLANDS
HYDROGRAPHIC COMMISSION
(SAIHC) MEETING**

SEYCHELLES

28 - 30 August 2018

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. 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's **Commonwealth Marine Economies (CME) 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. The CME Programme is now in its third year and the UK's Foreign Secretary, Rt Hon. Boris Johnson, announced a further £9million funding for the next two years of the programme. The UKHO continues to take a leading role in this programme with a series of surveys, equipment procurement and capacity building planned for the next two years.

2.3 The **UK Overseas Territories Seabed Mapping Programme** has central government funding to assess and redress the deficit of bathymetric data and lack of sound hydrographic governance in the UK's Overseas Territories (OTs). The programme is now in its third year and with a budget of £4.2million, will see significant surveys being undertaken in the BVI's, Anguilla, the Turks and Caicos Islands and St Helena. Further, an MSI and Hydrographic Governance workshop is being planned for this autumn, to be delivered at the UKHO.

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, a dedicated UKHO team that focuses on international survey programmes, capacity building and cartographic 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).

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.

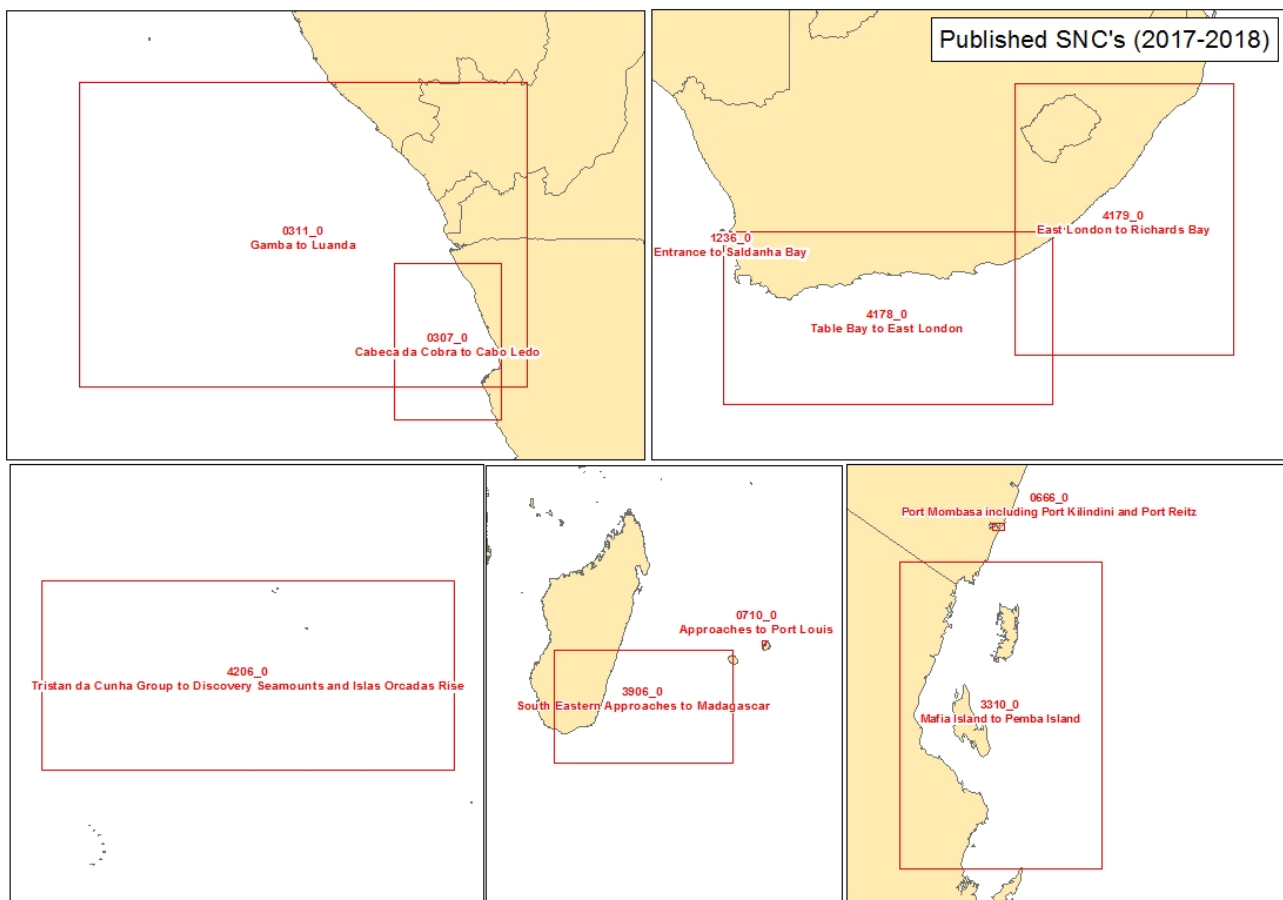
Paper Charts



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
4206	-	Tristan da Cunha Group to Discovery Seamounts and Islas Orcadas Rise	09/11/2017
307	2550	Cabeça da Cobra to Cabo Ledo	14/12/2017
4142*	2672	Saldanha Bay Harbour	04/01/2018
1236	2673	Entrance to Saldanha Bay	04/01/2018
710	7739	Approaches to Port Louis	08/02/2018
666	7702	Port Mombasa including Port Kilindini and Port Reitz	29/03/2018
4178 NC	7050	Table Bay to East London	24/05/2018
4179 NC	7051	East London to Richards Bay	24/05/2018
3906 NC	7064	South Eastern Approaches to Madagascar	07/06/2018
3310	7690	Mafia Island to Pemba Island	21/06/2018
311	2089	Gamba to Luanda	21/06/2018

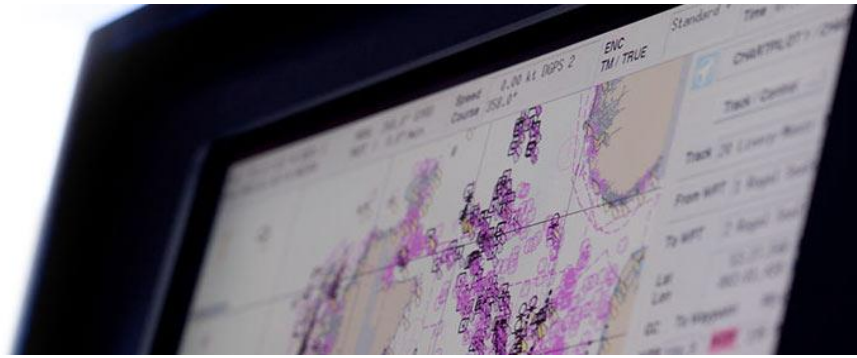


*4142 not shown due to scale. New Charts and full New Editions published since last SAIHC meeting.

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

GB Chart Number	INT Chart Number	Title
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, the UKHO has released a total of 103 ENC cells. The breakdown by usage band is shown in the table below:

SAIHC Region Released Cells		
ENC Usage Band	Number of GB ENCs	Comment
Overview	18	
General	6	Cancelled Cell GB200760
Coastal	31	Cancelled Cell GB300701
Approach	31	
Harbour	14	
Berthing	3	New Cell GB62721B
Total number of released ENCs	103	

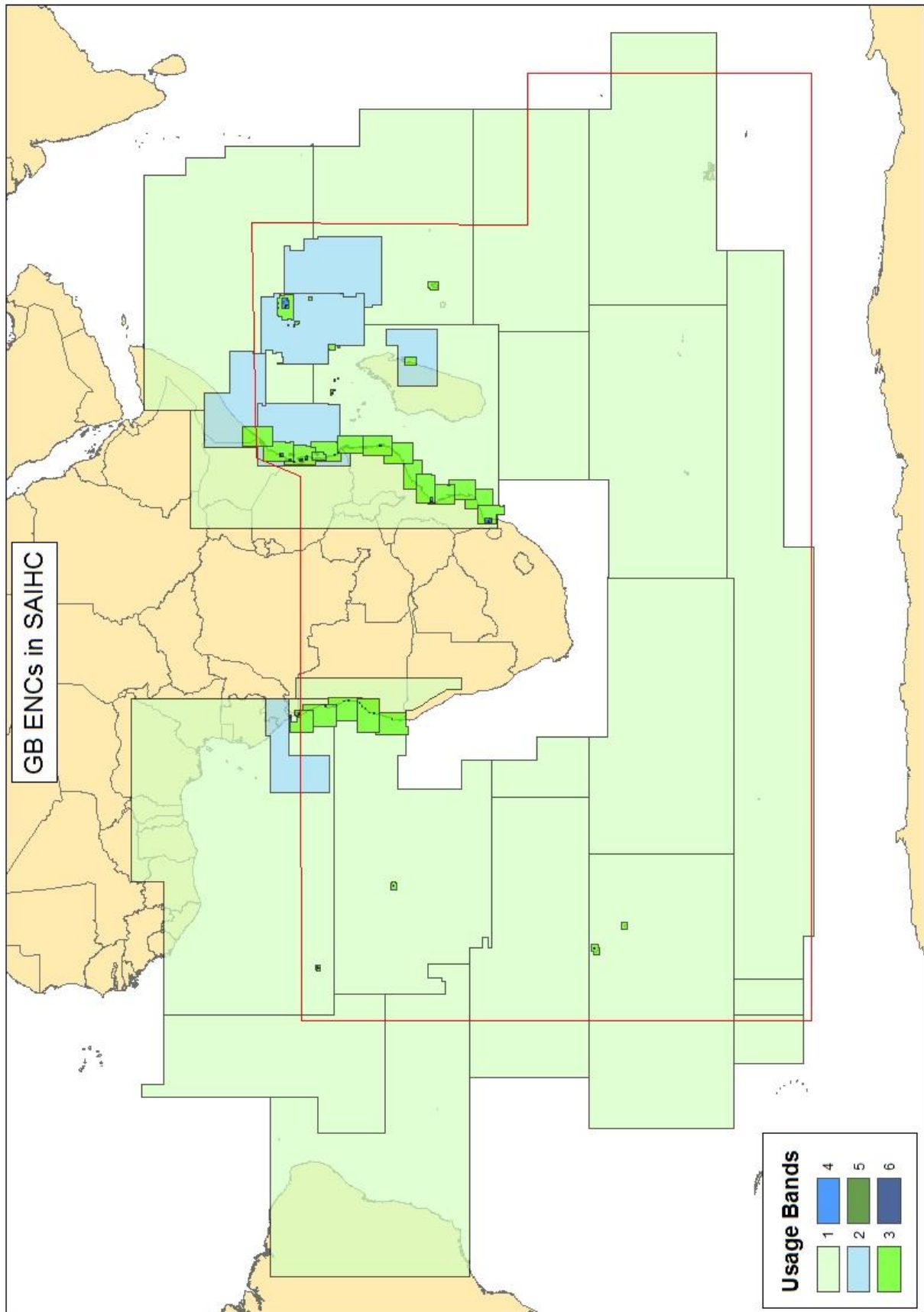
ENC totals by usage band as produced by UKHO

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

ENC Distribution

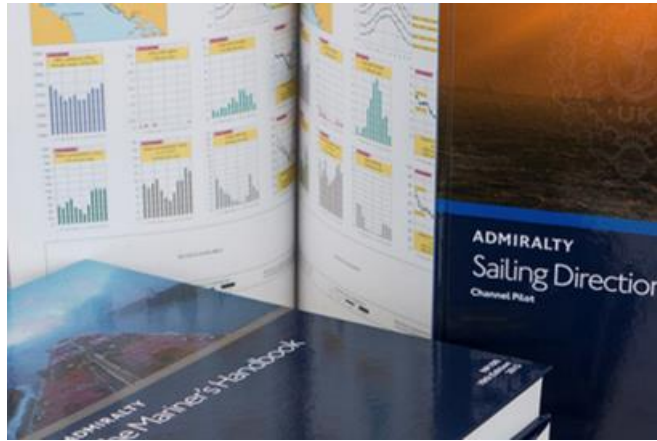
3.5 The UKHO, along with other European hydrographic offices, was a founder member of the IC-ENC RENC. IC-ENC (International Centre for ENCs) concentrates its efforts on the validation and consistency of ENC data and leaves the marketing of ENCs to the shipping industry to its value-added resellers and chart agents. Additional details can be found on the IC-ENC website (www.ic-enc.org). UKHO recently clarified its responsibility for the operation of IC-ENC with revisions to the IC-ENC Cooperation Arrangement. This was discussed with IC-ENC members at its Steering Committee in July 2018.

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 UKHO 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

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

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

NP1	Africa Pilot Vol 1	2017
NP2	Africa Pilot Vol 2	2017
NP3	Africa Pilot Vol 3	2016
NP39	South Indian Ocean Pilot	2017

Digital Publications



4.2 The UKHO offers digital equivalents to its existing paper publications to support the IMO mandate of ECDIS. These publications provide mariners with additional functionality and automate the task of updating.

4.3 The UKHO produces a range of ADMIRALTY Digital Publications which are digital versions of ADMIRALTY paper Nautical Publications. These publications are subscription-based and updatable by 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.

4.4 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 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, IOR satellite will migrate to EMEA satellite during last quarter 2018; 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 2019. 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 third quarter of 2018.

5.4 Notices to Mariners. 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 St Helena, Ascension and Tristan da Cunha within the SAIHC area. 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 The UK fully supports the IHO Capacity Building Sub-Committee (CBSC) strategy and 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. UK will continue to contribute resources to both CBSC initiatives and to providing bilateral assistance.

7.2 In recognition of the importance of establishing Phase 1 capability throughout the region, in early September 2017 SAIHC members joined members of the adjoining NIOHC in a joint MSI training course held in Fish Hoek, South Africa. This course followed the annual meeting of the WWNWS Sub-Committee and unusually featured all of the instructors and the Chairman (also an instructor).

7.3 UKHO has a post dedicated to International Training and 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 IHO capacity building activities, including UK involvement in regional hydrographic commission initiatives and IHO Capacity Building Sub Committee (CBSC) activities. Further information can be obtained from the International Training and Capacity Building Manager - Mr Jeff Bryant (jeff.bryant@ukho.gov.uk). Mr Jeff Bryant is also the Capacity Building Coordinator for the MACHC and NIOHC regions.

Cartographic Training provided by UKHO



7.4 The UKHO provides two annual CAT B accredited nautical cartography training opportunities to FGHO students. These are the IHO-NF CHART Project course which is funded by the Nippon Foundation and the newly established UKHO course. Applications for the Nippon Foundation course are by responding to the IHO Circular Letter on the subject (this year it was CL04 / 2018). The UKHO invites participants to its version of the course.

7.5 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



7.6 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)

7.7 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

9.1 Acknowledging the 2018 World Hydrography Day theme “Bathymetry - the foundation for sustainable seas, oceans and waterways”, UKHO hosted an interactive family day in June at the Museum of Somerset in Taunton, UK. This free to attend event was aimed at showing the local community the importance of hydrography and the vital role it plays in our lives.

The event offered a range of maritime-themed activities for both children and adults, including navigating around obstacles by calculating depths, and an augmented reality sandbox showing bathymetry in action, with responsive contours projected onto the sand as it was moved and sculpted by visitors. The event was well attended by adults and children, giving them an opportunity to meet expert mariners and representatives from UKHO.

9.2 UKHO will also be holding a national celebration of World Hydrography in London in October 2018. Guests representing marine and maritime interests, including government policy makers, academia and scientists are invited to an evening reception at Trinity House, the headquarters of England's Lighthouse Authority. This event explores the importance of hydrography and our knowledge of the shape, nature and depth of the seafloor as a fundamental requirement for the proper, safe, sustainable and cost-effective use of the world's seas, oceans and waterways. This year our annual World Hydrography event coincides with the IHO's 2nd Meeting of the IHO Council taking place in London. UKHO looks forward to welcoming IHO Council members at this event which will include the presentation of the Alexander Dalrymple Award in recognition of an individual's outstanding dedication and contribution to hydrography. This annual award established by the UKHO 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.

Broader UK Government Work

9.3 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 Overseas Territories.

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
- 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 Overseas Territories on behalf of the Foreign and Commonwealth Office and the Department for Environment, Food and Rural Affairs.

For the SAIHC region, Tristan da Cunha, St Helena and Ascension Island are UK OTs in scope of the Blue Belt Programme. The main focus has been working with local government to improve marine management and using technologies such as near real-time analysis of satellite data for targeted enforcement of illegal, unreported and unregulated (IUU) fishing. One of UKHO's surveyors joined the Blue Belt team onboard the British Antarctic Survey's marine research vessel RRS *James Clark Ross*, to collect and process bathymetry data covering seamounts around Tristan da Cunha and St Helena. This enabled marine ecologists to better understand the marine habitats at important fishing areas.

Commonwealth Nations

9.4 The UK is the current chair of the Commonwealth Heads of Government Meeting (CHOGM18), which was held between the 16th and 21st April, in London. The next CHOGM will be in 2020, and the UKHO has demonstrated its commitment to furthering the Commonwealth's Blue Charter aspirations by announcing funding for a number of initiatives including continued support to the CME Prog.

The UKHO continues to take a leading role in pushing ocean's policy within government and is working on a number of initiatives that should see continued focus on seabed mapping for the commonwealth and beyond.

UKHO's International Activities

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

International Hydrographic Organisation - HSSC		Chair/Vice Chair	Member
DQWG	Data Quality Working Group		x
ENCWG	ENC Standards Maintenance Working Group	x	x
HSSC	Hydrographic Services and Standards Committee		x
NCWG	Nautical Cartography Working Group		x
NIPWG	Nautical Information Provision Working Group	x	x
S-100WG	S-100 Working Group		x
TWCWG	Tides, Water Level & Currents Working Group		x
International Hydrographic Organisation - IRCC		Chair/Vice Chair	Member
CBSC	Capacity Building Sub-Committee		x
CSBWG	Crowd-sourced Bathymetry Working Group		x
DRWG	Document Review Working Group of NAVTXT		x
HCA	Hydrographic Commission on Antarctica		x
IRCC	Inter-Regional Coordination Committee		x
MACHC	Meso American and Caribbean Sea Hydrographic Commission		x
MBSHC	Mediterranean and Black Seas Hydrographic Commission		x
MSDIWG	Marine Spatial Data Infrastructure Working Group		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
WENDWG	Worldwide ENC Database Working Group	x	x
WWNWS	Worldwide Navigational Warning Service		x
International Maritime Organisation		Chair/Vice Chair	Member
NAVTEX	NAVTXT 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	Navarea1 member states meeting	x	
ISO	International Standards Organisation		x
OGC	Open Geospatial Consortium	x	x

10. CONCLUSION

10.1 UK has a strong commitment to the Southern African and Islands region, through its primary charting activity, 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. As a direct result of this years Technical Assessment Visit (TAV) to St. Helena, a survey of coastal waters <100m is planned.

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 concluded in July 2018, which presents 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 2018

UKHO POINTS OF CONTACT

UKHO Website: GOV.uk/UKHO

The general UKHO address is:

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

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

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