



United Kingdom  
Hydrographic Office

## REPORT of UK ACTIVITIES



**41<sup>th</sup> US / CANADA HYDROGRAPHIC COMMISSION**

Victoria, BC  
26<sup>th</sup> March 2018

This report is not a formal UK National Report;  
Although similar in content,  
it simply describes UK's activities of direct relevance to the USCHC Region.



## 1. UNITED KINGDOM HYDROGRAPHIC OFFICE (UKHO)

- 1.1 UK Delivery of Hydrographic Services.** 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), UK's maritime administration and the Maritime and Coastguard Agency (MCA), in providing a co-ordinated approach to hydrographic and maritime safety representation, both nationally and internationally.
- 1.2 UKHO Governance and Targets.** This is described in the UK Generic National Report, see [www.gov.uk/government/organisations/uk-hydrographic-office/about](http://www.gov.uk/government/organisations/uk-hydrographic-office/about)



- 1.3 UKHO Organisation.** 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 USCHC region are included at the end of this report.
- 1.4 Production Systems.** This is described and can be found in the UK Generic National Report.



- 1.5 Cooperation and Partnerships.** The UK is committed to bilateral arrangements, developed in co-operation with other international government hydrographic authorities and other agencies, covering a range of topics, including the use of copyright data. These arrangements promote other forms of co-operation between the participants, helping to enhance international maritime safety and protection of the environment.
- 1.6 Commonwealth Marine Economies (CME) Programme.** In November 2015 the British Prime Minister announced a £5.6million package of measures to help small island countries reduce poverty by preserving their marine environments and making best use of their maritime resources. The Commonwealth Marine Economies (CME) Programme aims to support the sustainable growth of Commonwealth Small Island Developing States (SIDS) within the Caribbean, Pacific and Indian Ocean regions. The Programme will run for 1 year initially, with potential for further years.

The Programme is being delivered on behalf of the Foreign and Commonwealth Office (FCO) by a partnership of world-leading UK government marine expertise; UKHO, the Centre for Environment Aquaculture and Fisheries Science (CEFAS) and the National Oceanography Centre (NOC).

The main focus of the pilot year activity has been to capture, as fully as possible, the current hydrographic baseline status of the SIDS in scope, and to develop hydrographic action plans that can either be serviced by future years of the CME programme or by other funding/Capacity Building (CB) activities. In addition to this, we have carried out a number of data gathering activities in the Caribbean and are looking into the feasibility of further replicating this in the Caribbean, Pacific and Southern Atlantic throughout 2018 and 2019.

## 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 successful in promoting co-operation between these organisations.
- 2.2** Any requests for survey assistance from nations within the USCHC region will be assessed within the UK Ministry of Defence (MoD), with advice from UKHO. UKHO can also contribute to project management of hydrographic surveys, and has a post dedicated to the phased development of new international survey activity and capability. It acts as the initial point of contact for UKHO involvement in direct overseas surveying schemes, including British Overseas Territories and Regional Hydrographic Commission initiatives. Further information can be obtained from Mr. Sam Harper ([samuel.harper@ukho.gov.uk](mailto:samuel.harper@ukho.gov.uk)), whose details can be found at Annex A.

## 3 CHARTS

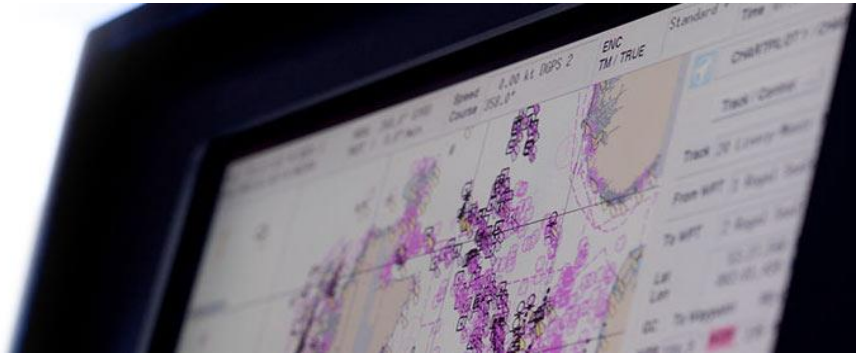
- 3.1** UK's Generic National Report provides information on UK's portfolio of chart products and services. The following paragraphs provide information relevant to the USCHC region.



- 3.2 Paper Charts.** Information on UK's global chart portfolio is provided on the UKHO website. Working with our many valued partners in the region, the following charts have been published since the last USCHC meeting as New Charts or full New Editions:

<b>GB Chart Number</b>	<b>Title</b>	<b>Published</b>
2866	Cape Canaveral to Key West	19 Jan 2017
2890	Narragansett Bay and Buzzards Bay	19 Jan 2017
3688	Cape Fear River	19 Jan 2017
8004	PAG Long Beach and Los Angeles	26 Jan 2017
3692	Approaches to Port Canaveral	02 Feb 2017
2530	San Diego Bay to Cape Mendocino	16 Feb 2017
2531	Cape Mendocino to Vancouver Island	16 Feb 2017
4790	Lac Saint-Pierre	16 March 2017
2603	United States – East Coast, Delaware Point to Little Tinicum Island	08 Jun 2017
2604	United States – East Coast, Delaware River, Philadelphia and Camden	08 Jun 2017
8227	Port Approach Guide Miami	15 Jun 2017
4777	Canada – Quebec – St. Lawrence River, Point des Monts to Escoumins	13 July 2017
897	United States – West Coast, California, San Diego Bay	20 July 2017
4920	Canada – United States – West Coast, British Columbia, Juan de Fuca Strait to Dixon Entrance	03 Aug 2017
4921	Canada, British Columbia, Queen Charlotte Sound to Dixon Entrance	03 Aug 2017
4929	Canada, British Columbia, Otter Passage to McKay Reach	10 Aug 2017
8200	Port Approach Guide Delaware River – Philadelphia and Camden	17 Aug 2017
3454	United States – East Coast, New York – New Jersey, New York, Hudson River, Hoboken to Edgewater	28 Sept 2017
8031	Port Approach Guide, Mobile Bay	12 Oct 2017
4406	INT Canada, Hudson Bay and Strait	19 Oct 2017
334	North Atlantic Ocean, Bermuda	26 Oct 2017
4755	INT Nova Scotia, Southeast Coast, Halifax Harbour, Bedford Basin	28 Dec 2017
4776	Canada, Quebec, St Lawrence River, Baie des Sept Iles	28 Dec 2017
4935	Canada, British Columbia, Hecate Strait-Chatham Sound, Malacca Passage to Bell Passage	28 Dec 2017
4936	Canada, British Columbia, Chatham Sound, Approaches to Prince Rupert Harbour	28 Dec 2017
4785	Canada, Quebec, St Lawrence River, Sault-au-Cochon to Quebec	15 Mar 2018
2486	United States – East Coast, Maine, Penobscot Bay and Approaches	29 Mar 2018

Charts in the 8xxx series are Port Approach Guides



**3.3 Digital Charts.** As noted in Section 3.1, UK's Generic National Report provides information on UK's portfolio of chart products and services.



.4 **ENCs.** Within the USCHC Region, UK has published 22 ENC cells.

The breakdown by usage band is shown in the table below, and in the diagrams that follow:

USCHC Region Released Cells	
ENC Usage Band	Number of GB ENCs
Overview	12
General	2
Coastal	2
Approach	2
Harbour	3
Berthing	1
Total number of released ENCs	<b>22</b>

USCHC GB Overview Usage Band

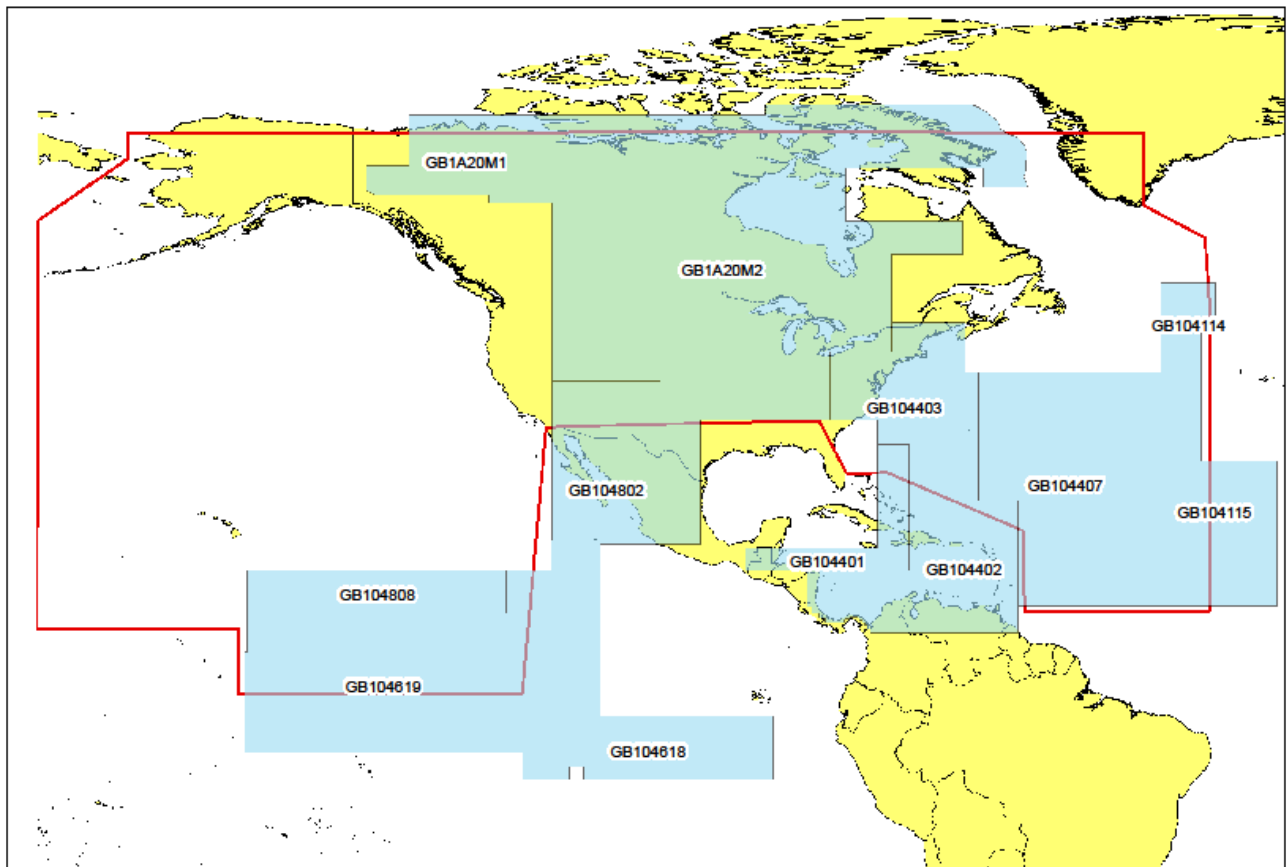


Figure 1

USCHC GB General Usage Band

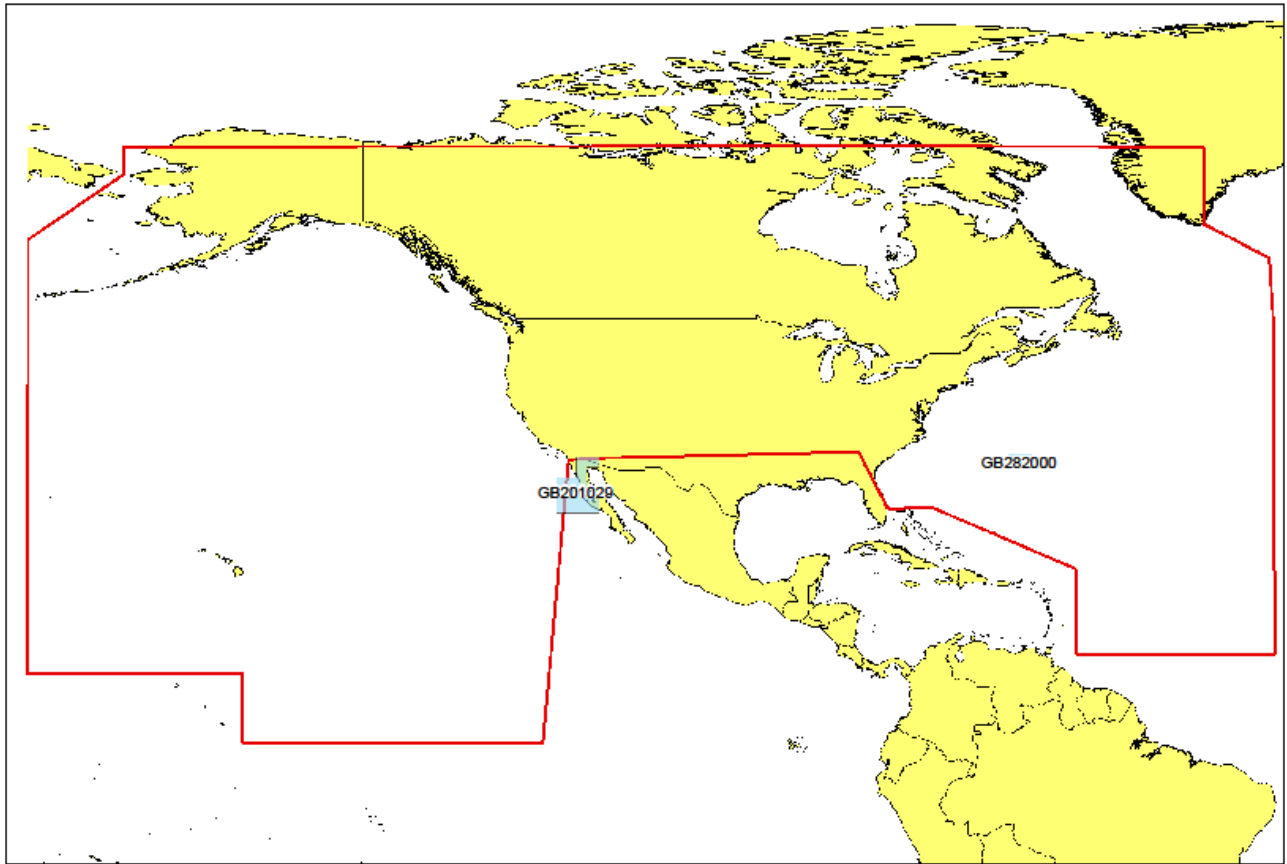


Figure 2

USCHC GB Coastal Usage Band

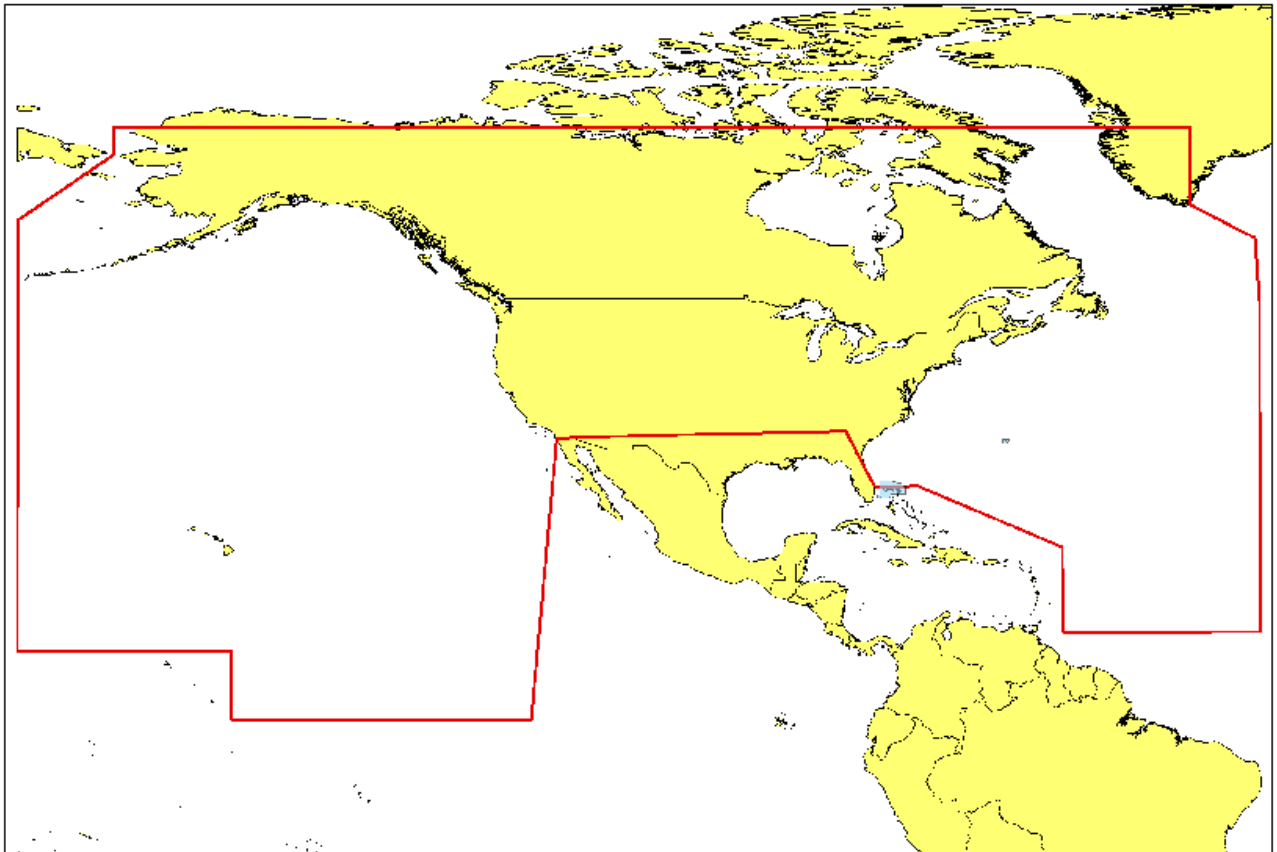


Figure 3



USCHC GB Approach Usage Band

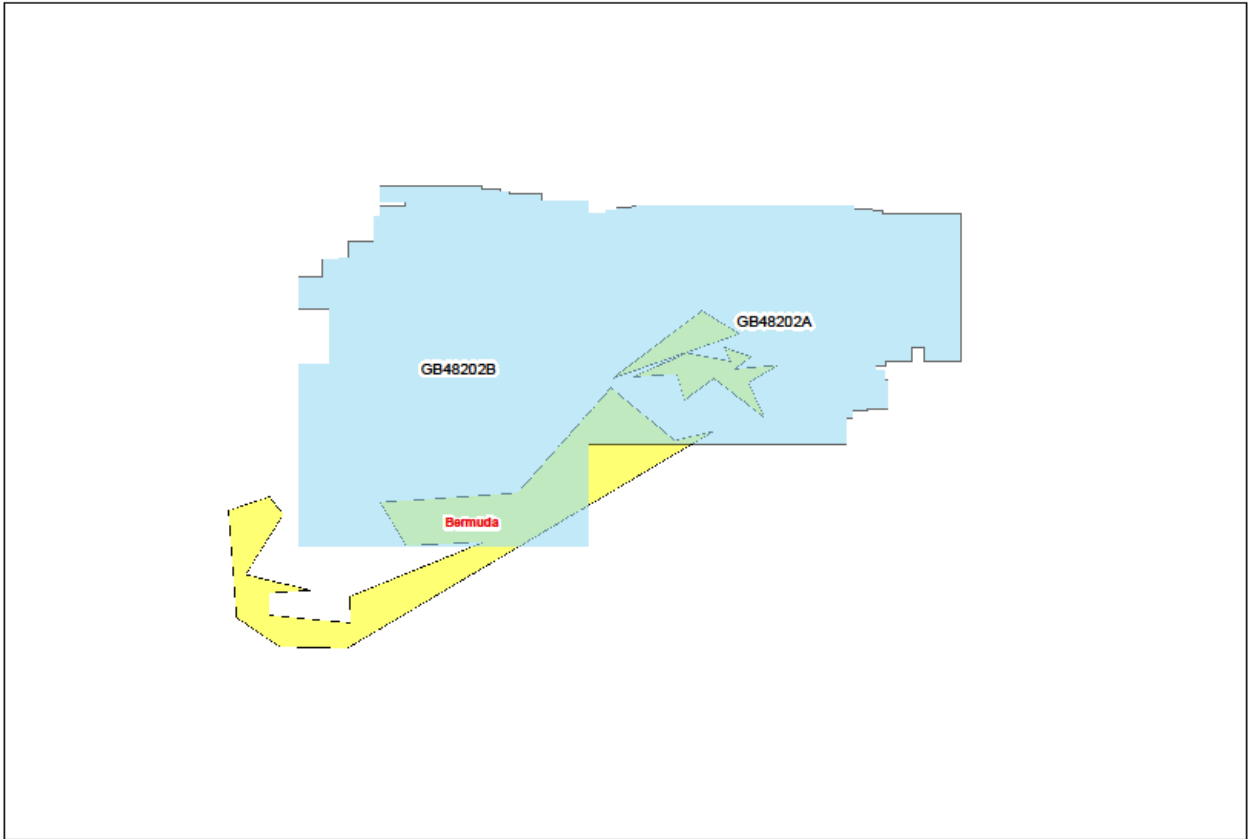


Figure 4

USCHC GB Berthing Usage Band

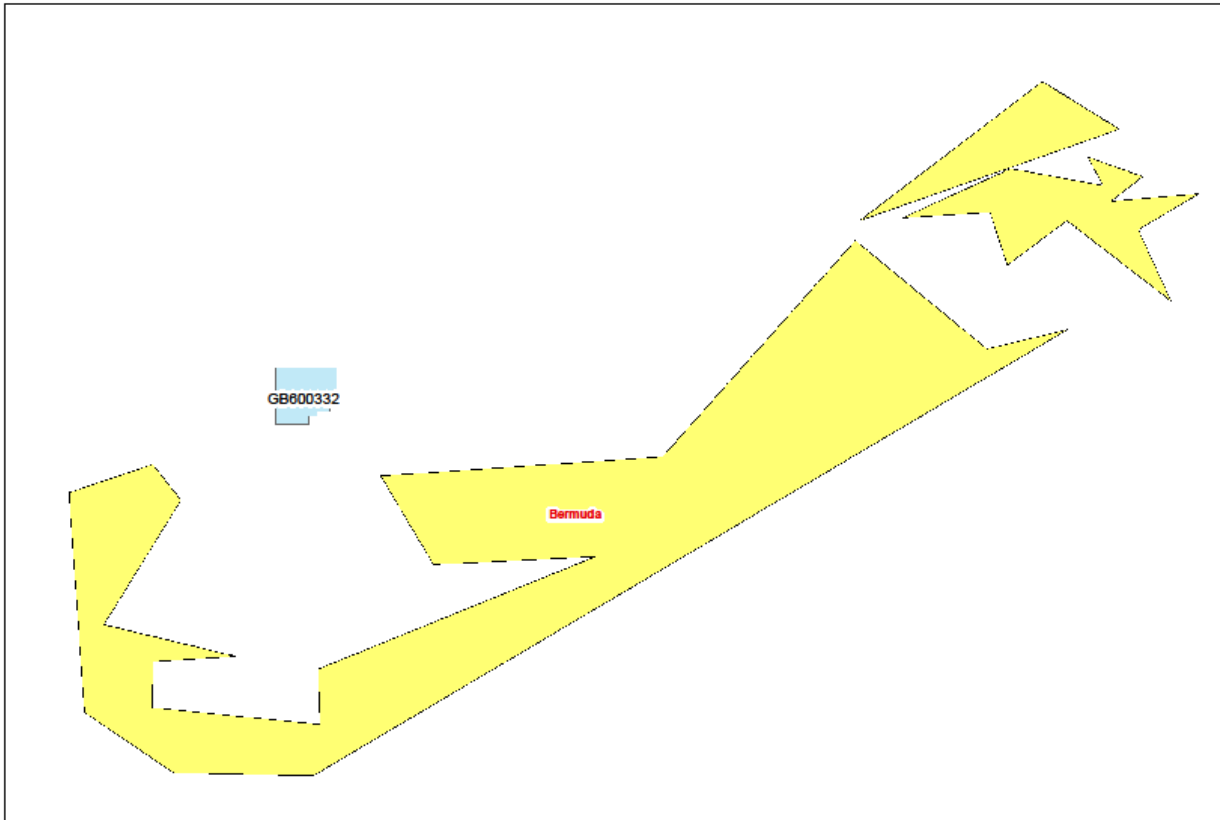


Figure 5

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

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

## 4. PUBLICATIONS



**4.1 Paper Publications.** The Admiralty Sailing Directions in the USCHC region are as follows:

NP4	South East Alaska Pilot
NP8	Pacific Coast of Central America and United States Pilot
NP12	Arctic Pilot, Vol 3
NP23	Bering Sea and Strait Pilot
NP25	British Columbia Pilot, Vol 1
NP26	British Columbia Pilot, Vol 2
NP50	Newfoundland and Labrador Pilot
NP59	Nova Scotia and Bay of Fundy Pilot
NP65	St. Lawrence Pilot
NP68	East Coast of the United States Pilot, Vol 1
NP69	East Coast of the United States Pilot, Vol 2
NP69A	East Coasts of Central America and Gulf of Mexico Pilot
NP70	West Indies Pilot Vol.1

These publications are all maintained on a continuous revision cycle and new editions are published every 3 years or as required.



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

## 5. MARITIME SAFETY INFORMATION



- 5.1 Responsibilities.** The UK's principal responsibility within the USCHC region is for its United Kingdom Overseas Territory of Bermuda.

UK maintains close liaison with both USA and Canada, the NAVAREA Co-ordinators for NAVAREA IV and XII, and for XVII and XVIII respectively. Any information received at UKHO which requires urgent promulgation is passed to the respective NAVAREA Co-ordinator on a 24 hour basis.

- 5.2 Notices to Mariners.** The current Admiralty weekly Notices to Mariners are now supplemented by daily updates; these are available on the UKHO website.

## 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 Waters Home Waters and its Overseas Territories, including Bermuda within the USCHC area. For the latest update see C-55; we have incorporated the additional breakdown of chart coverage (percentage of metric and WGS84 charts), as requested in IHO Circular Letter 102/2008.

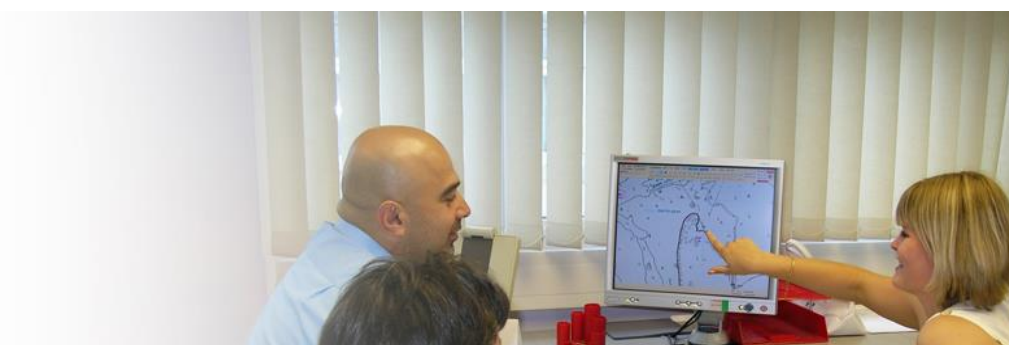
- 6.2** UK has also provided assistance to update C-55 entries to other countries, where the UKHO retains the primary charting responsibility, recognising that local input remains critical to the maintenance of C-55 as an up-to-date and authoritative reference document.

## 7. CAPACITY BUILDING

- 7.1 IHO Capacity Building Sub-Committee.** UK fully supports the IHO Capacity Building Sub-Committee strategy (CBSC) and particularly its emphasis on facilitating 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 Technical Support and Training.** UK has participated in numerous technical visits and workshops for varying programmes of work, in several RHC regions. In the USCHC region UKHO has supported a University of New Hampshire – NOAA Chart Adequacy Workshop.
- 7.3 Capacity Building Coordinator.** UKHO has a post dedicated to 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. Further information can be obtained from Mr Jeff Bryant ([jeff.bryant@ukho.gov.uk](mailto:jeff.bryant@ukho.gov.uk)).



- 7.4 Cartographic Training provided by UKHO.** 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.



- 7.5 ENC Training and Assistance.** The UKHO strongly supports the successful uptake of type approved ECDIS using Official ENC, and is pro-active in offering assistance to 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.
- 7.6 Survey Training at Flag Officer Sea Training - Hydrography, Meteorology and Oceanography (FOST-HM).** Nationally and internationally certified courses delivered by FOST-HM in Plymouth, are described in the UK Generic National Report.

## 8. OCEANOGRAPHIC ACTIVITIES

8.1 These are described in the UK Generic National Report.

## 9. OTHER ACTIVITIES

9.1 **United Kingdom Overseas Territories (UKOTs).** UK undertakes Primary charting of the following British Overseas Territories with the USCHC region:

- Bermuda

Within the USCHC region, UK undertakes Primary Charting of Bermuda. The UKHO has begun a programme of work to review the status of hydrography within the United Kingdom Overseas Territories (UKOT), 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. This has involved raising awareness of the importance of hydrography as well as seeking opportunities to collaborate with regional projects. In addition, the UKHO has supported the use of Royal Navy surveying vessels to supplement survey activity in the region. The UKHO has been working with the UK Foreign and Commonwealth Office to conduct an audit of data collected under the Marine Scientific Research licensing programme; the intention is that where bathymetric data has been collected but not supplied to the UKHO, this will be requested and assessed for charting action



**9.2 Americas Cup 2017.** In 2017 Bermuda hosted the 35th America's Cup. Racing started with the Louis Vuitton America's Cup Qualifiers in late May, 2017 and the top Challenger met Defending Champions ORACLE TEAM USA in the 35th America's Cup Match, which began on 17th June, 2017. Renowned for crystal blue water and beautiful pink sand beaches, Bermuda's Great Sound formed a natural amphitheatre for the race course while the planned America's Cup Village at the Royal Naval Dockyard, was the beating heart of the America's Cup experience. Historical wind data indicated there should be racing conditions 90% of the time in June, and racing conditions were indeed exceptional.

In preparation, UKHO, assisted by the Department of Marine and Port Services, Bermuda, has renewed the Admiralty charts of Bermuda over the past two years.



The 35th America's Cup in Bermuda was also graced by the J Class fleet. These majestic titans of sail competed for the Cup during the 1930s and are still some of the most famous yachts afloat. Only ten J Class yachts were ever built, of which three originals survive today, including Shamrock V and Endeavour which raced for the America's Cup in 1930 and 1934 respectively. Since the J Class Association (JCA) was founded, five replica J Class yachts, built to original designs in modern materials, have launched and a sixth is joining the fleet in Spring 2017.

Eight J Class yachts attended Bermuda - including Shamrock V - with seven competing in the J Class regatta. This was the first time in history that seven J Class yachts have raced against each other.



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

UK has a strong commitment to the Caribbean, North America and Arctic areas, through its Primary Charting responsibilities and through its continuing interest in developing regional hydrographic self-sufficiency through capacity building measures.

Recognising the importance of the Caribbean area, the UK has introduced a new Head of International Partnering for the Caribbean region, (Mr Sam Gillchrest; [Samuel.Gillchrest@ukho.gov.uk](mailto:Samuel.Gillchrest@ukho.gov.uk)) to work with and establish new relationships across the Caribbean Islands to further support the development of hydrographic capability. Sam's contact details can be found at Annex A.

The UK, through the UKHO and the national maritime administration (MCA), continues to pursue opportunities to improve access to bathymetric data gathering in waters around United Kingdom Overseas Territories, particularly to support Caribbean Sea cruise-ship traffic.

The provision of adequate ENC coverage, in support of the IMO carriage requirement for ECDIS that comes progressively into force from 2012, presents a significant challenge globally; the USCHC already has comprehensive ENC coverage.

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

**Taunton, March 2018**



## ANNEX A: UKHO POINTS OF CONTACT

**UKHO Website:** [www.ukho.gov.uk](http://www.ukho.gov.uk)

The general UKHO address is:

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

United Kingdom

E-mail: [customerservices@ukho.gov.uk](mailto:customerservices@ukho.gov.uk)  
Telephone: +44 (0)1823 337900 or +44 (0)1823 484444  
Fax: +44 (0)1823 723380



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

E-mail: [InternationalPartnering&Engagement@UKHO.gov.uk](mailto:InternationalPartnering&Engagement@UKHO.gov.uk)

### For bilateral arrangements and capacity building within the USCHC region, please contact:

**Mrs Sunny Ahmed,**  
Head of Partnering & Engagement - Americas

E-mail: [Sunny.ahmed@ukho.gov.uk](mailto:Sunny.ahmed@ukho.gov.uk)  
Telephone: 001 571 558 1893  
+1 202 445 3956 (Mobile)

**Mr Bruce Harding,**  
Partnering & Engagement Officer - Americas

E-mail: [bruce.harding@ukho.gov.uk](mailto:bruce.harding@ukho.gov.uk)  
Telephone: +44 1823 483426

**Mr Jeff Bryant,**  
International Capacity Building Manager

E-mail: [Jeff.Bryant@ukho.gov.uk](mailto:Jeff.Bryant@ukho.gov.uk)  
Telephone: +44 (0)1823 483921  
+ 44 (0)7768152235

**Mr Samuel Harper**  
International Hydrographic Projects Manager

Email: [Samuel.Harper@ukho.gov.uk](mailto:Samuel.Harper@ukho.gov.uk)  
Telephone: +44 (0)1823 483473  
+44 (0)7776471346

### For charting matters in the USCHC region, please contact:

**Mrs Stephanie Vincent,**  
Geographic Manager - North and Central  
America and Caribbean

E-mail: [Stephanie.Vincent@UKHO.gov.uk](mailto:Stephanie.Vincent@UKHO.gov.uk)  
Telephone: +44 (0)1823 483584

### For Sailing Direction matters in the USCHC region, please contact:

E-mail: [SDImpactAnalysis@ukho.gov.uk](mailto:SDImpactAnalysis@ukho.gov.uk)