



UK Hydrographic  
Office

# UNITED KINGDOM NATIONAL REPORT

to the

25<sup>th</sup> MEETING

of the

MESO AMERICAN & CARIBBEAN SEA  
HYDROGRAPHIC COMMISSION  
(MACHC25)

between

3-6 December 2024

in

Panama City, Panama



This Report is to be read in conjunction with the [UK's Generic National Report](#) and provides specific information and updates to the MACHC region.

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## 1. PAPER CHARTS:

1.1. Information on the UK's chart portfolio is provided on the [ADMIRALTY website](#) as well as within the [UK Generic National Report](#).

1.2. Information on UK's chart portfolio is provided on the ADMIRALTY website. There have been no new charts and 21 new editions of SNCs published since the MACHC24 Report.

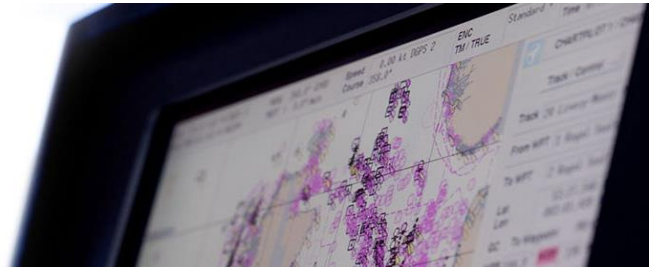
GB Chart Number	INT Chart Number	Title	Published
29		Brazil - South Coast, Porto de Santos	4 Jul 2024
254		Montserrat and Barbuda	14 Mar 2024
331		Brazil - North Coast, Approaches to Porto de Belém & Porto de Vila do Conde	4 Apr 2024
332		Bermuda Islands - Grassy Bay and Great Sound including Little Sound	26 Sep 2024
334		North Atlantic Ocean - Bermuda	14 Nov 2024
360		North Atlantic Ocean - Approaches to Bermuda	14 Nov 2024
363		Mexico - East Coast, Tampico	21 Dec 2023
410		West Indies, Cuba - North West Coast, Bahía del Mariel & Approaches	16 May 2024
431		Brazil - Southern Coast, Porto de Sepetiba & Approaches	26 Sep 2024
550		Brazil - Southern Coast, Approaches to Macaë	29 Feb 2024
867		Bermuda - North and South Channels to Great Sound	26 Sep 2024
868		Bermuda - Eastern and Western Approaches to the Narrows Including Murray's Anchorage	26 Sep 2024
1073		Bermuda Islands - Dundonald Channel to Hamilton Harbour	26 Sep 2024
1315		Bermuda Islands - Five Fathom Hole, The Narrows and Saint George's Harbour	26 Sep 2024
1521		Venezuela - Canal de Maracaibo, Southern Part	4 Jan 2024
2189		Brazil - East Coast, Rio Amazonas, Canal do Norte	8 Feb 2024
2189		Brazil - East Coast, Rio Amazonas, Canal do Norte	14 Nov 2024
2261		Colombia - North Coast, Puerto Barranquilla & Approaches	28 Dec 2023
2434		Colombia - North Coast, Bahía de Cartagena	7 Nov 2024
2765		South America - North Coast, Suriname, Suriname River Entrance to Toevluct	5 Sep 2024
2988		Central America, Ports in The Gulf of Honduras	24 Oct 2024

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

GB Chart Number	INT Chart Number	Title	Published
697		Dominica	29 Dec 2024
1797		Central America - East Coast, Belize, Monkey River to Colson Point	Apr 2025
3959		Brazil - North Coast, Approaches to Rio Pará & Rio Amazonas	Dec 2024
3962		Brazil - Northern Coast, Approaches to Rio Amazonas	Dec 2024

**2. DIGITAL CHARTS:**

The [UK's Generic National Report](#) provides information on the UK's portfolio of chart products and services, including distribution. The following paragraphs provide information specifically relevant to the MACHC region.



**2.1. ENCs:**

Within the MACHC region, the UKHO has released a total of 223 GB ENC cells during 2023-2024. The breakdown by usage band is shown in the table below:

MACHC Region Released Cells	
ENC Usage Band	Number of GB ENCs
Overview	11
General	37
Coastal	35
Approach	66
Harbour	86
Berthing	14
Total number of released ENCs	249

The tables below show revisions to GB ENC coverage for the MACHC region during 2023/24.

New Cells Oct 2023 - Oct 2024	Week No.
GB1BI000	28/24
GB1CJ000	14/23
GB1CT000	14/23

GB ENC's planned for release in the next six months:

New GB Cells	Cell Title
Band 5 Cell number to be confirmed	Cabo Rojo
Band 5 Cell number to be confirmed	Light House Point

Cancelled Cells Oct 23 - Oct 24	Week No.	Replacements	
		Cell Name	Cell Title
GB42988A	24/24	US4PJ3B0	Guatemala - Approaches to Puerto Barrios South
GB52988B	24/24	US5PJ3B3	Guatemala - Puerto Barrios
GB104802	28/24	GB1BI000	North America
GB58932A	50/24	GB5BRLYE	Belize - Commerce Bight
GB58932B	50/24	GB5BRLYA GB5BRLYB GB5BRLYC GB5BRLYD	Belize - Big Creek and Approaches

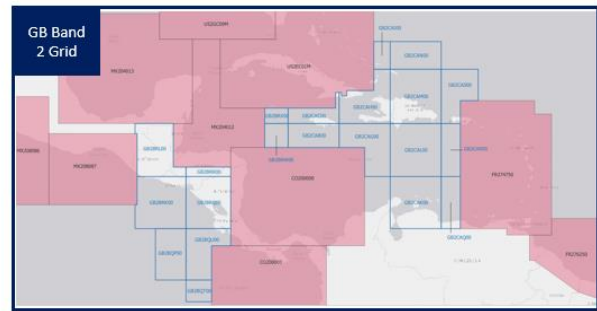
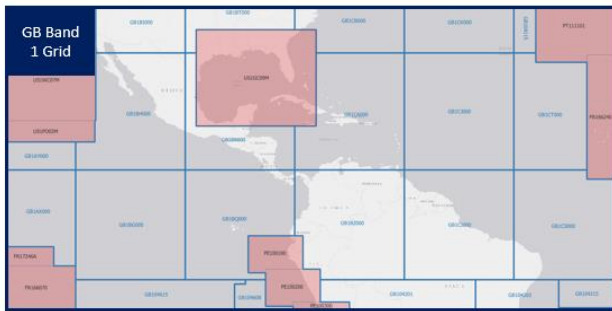
## 2.2. The S-1XX Era:

We are supporting the IHO's Roadmap for the S-100 Implementation Decade and timeline for the roll-out of the S-100 standards and ensuring we are in step with IMO S-100 ECDIS carriage and performance standards. We are developing distribution services to ensure that we can meet the needs of our Distributors, shipping companies, ports, and others in the marine industry for S-100 data. We are currently working with equipment manufacturers, solution providers, ports, and pilots to help us develop our services before S-100 ECDIS begins to roll out from January 2026. We aim to have initial S-100 end-user services in place 6 months ahead of the need to support its use in ECDIS. We expect the use of S-100 to gradually build from 2026 to 2029, from when all new ECDIS must be compatible with S-100. During this period, we will upgrade our services to provide a seamless transition for users from their existing S-57 ENC service to S-100 services. At the same time, we are building our production capabilities to deliver the IHO Phase 1 Route Monitoring data types for areas where the UK is the producer authority. We will also support other Hydrographic Offices in building their S-100 capabilities through collaboration, information sharing and training.

## 2.3. Gridded ENC Rescheme:

The UKHO has begun the process to rescheme all GB ENC's using a gridded scheme which can be applied to all scale bands for S-57 and S-101. The project has already successfully delivered several areas of reschemed GB ENC coverage, including gridding the UKHO's Band 1 and 2 coverage within the MACHC region. The UKHO is happy to share our findings, parameters and how we have overcome challenges so that others (national HO's and RHC's) can align with the UK grid should they wish. Several national HO's 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 so desire. The gridded scheme will also be used to scheme additional data including S-102, S-104 and S-111, to form an aligned interactive data-stack with the S-57/S-101 data. Where high quality bathymetry data exists, such as the Port of Kingston in Jamaica, the UKHO is also implementing High Density contouring, which is generating very positive feedback from the users. For further information on the rescheming of GB

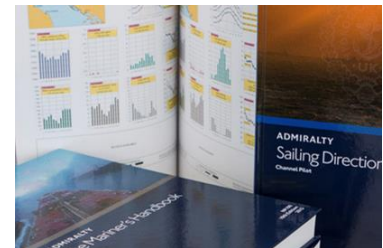
ENCs, including the features and benefits, please see the UKHO website at: [Improving GB ENC data | ADMIRALTY](#)



### 3. PUBLICATIONS:

3.1. The ADMIRALTY Sailing Directions in the MACHC region are as follows:

NP5	South America Pilot Vol 1
NP7	South America Pilot Vol 3
NP7A	South America Pilot Vol4
NP8	Pacific Coasts of Central America & United States Pilot
NP69A	East Coasts of Central America & Gulf of Mexico Pilot
NP70	West Indies Pilot Vol 1
NP71	West Indies Pilot Vol 2



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

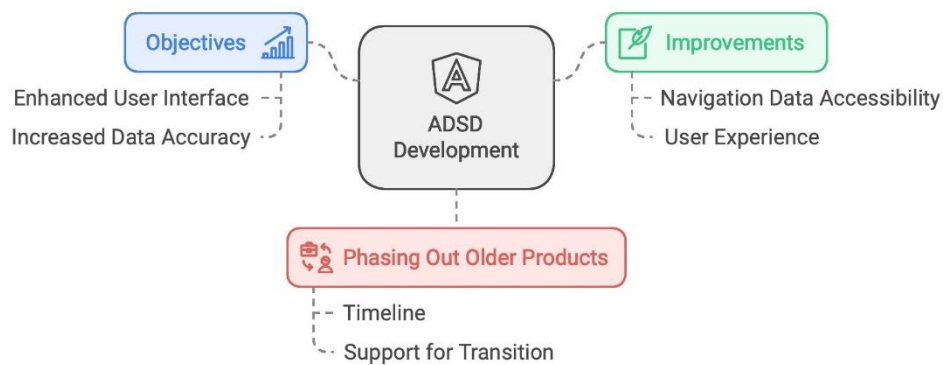
ADMIRALTY Tide Tables, ADMIRALTY Lists of Lights and ADMIRALTY Lists of Radio Signals are published annually.

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

### 3.2. Digital Publications:

The UKHO produces a range of ADMIRALTY Digital Publications which are digital versions of the ADMIRALTY paper Nautical Publications. Further information can be found on the [ADMIRALTY website](#) as well as within the [UK Generic National Report](#). The UKHO is currently in the process of developing an improved digital Sailing Directions product - ADMIRALTY Digital Sailing Directions (ADSD). Initially, this new product will be launched alongside the existing e-NP Sailing Directions, but the expectation is that in time it will eventually replace our existing e-NP SD product. The project team responsible for delivering this new SD product is making solid progress on developing an improved Sailing Directions viewer which has been designed with user needs and insight at its heart. Alongside this, the UKHO is also developing an improved internal production tool which will allow for more efficient provision of better structured data to users. In March 2024, the UKHO began to trial this new ADSD product with a limited number of vessels navigating in UK Waters. Over the course of the following 12 months, this will allow the UKHO to develop the product based on user feedback gathered during the trial. Further

details will be available in the months to come, including the expected launch date and further iteratively insight into the new and improved functionality of this product.



#### 4. DATA COLLECTION AND C-55 LATEST UPDATE:

4.1. **Data Collection:** The UKHO has been supporting a survey of the Cayman Islands EEZ which is being conducted by Saildrone Inc using unmanned survey vessels. The UKHO's involvement has been to represent the Cayman Islands Government as PCA and to oversee the survey operations being undertaken by Saildrone. The UKHO has assisted Saildrone in ensuring that the survey vessel and operations meet the relevant UKHO specifications, to ensure high quality data is collected. The UKHO has also been monitoring the data collection on a daily basis, collaborating closely with Saildrone where necessary, to ensure total coverage is achieved. Upon receipt of the survey data, the UKHO is processing and validating the data in a continuous workflow prior to updating navigational charts.

#### 4.2. C-55 Latest Update:

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. The UKHO has also provided assistance to update C-55 entries for countries where it provides primary charting, recognising that local input remains critical to the maintenance of C-55 as an up-to-date and authoritative reference document. This assistance has been provided for Antigua and Barbuda, The Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Jamaica, Panama, Saint Lucia, Saint Kitts and Nevis, Saint Vincent and The Grenadines, Suriname and Trinidad and Tobago. The latest status for all UK Home Waters, Overseas Territories and PCA nations is correctly outlined within the [IHO C-55 publication](#).

4.3. **Crowd Sourcing Bathymetry (CSB):** The UKHO has recently responded to the IHO CL 21/2020 stating the UK position on CSB data provision within areas under national jurisdiction. This supports CSB in Territorial Sea and Exclusive Economic Zone, but not internal waters but allows only Single beam Echo Sounder data. This also covers the UK, Overseas Territories and Crown Dependencies. The UKHO will review CSB data before uploading it to the IHO DCDB. This position will be reviewed annually by the UK Centre for Seabed Mapping Steering Committee.

## 5. **CAPACITY BUILDING:**

5.1. **General:** Full details of the UK's Capacity Building involvement, including training courses can be found in the [UK Generic National Report](#).

5.2. **IHO-Nippon Foundation GEOMAC Project:** From the region, the UKHO have welcomed participants from Cuba and Venezuela on the 16<sup>th</sup> Course of IHO-Nippon Foundation GEOMAC project, currently taking place at the UKHO Headquarters. The project provides training in Geospatial Marine Analysis and Cartography and is recognised by the FIG-IHO-ICA International Board on Standards of Competence for Hydrographic Surveyors and Cartographers (IBSC) with Category 'B'.

5.3. **Improving Hydrographic Awareness and Capability in Regional UK Overseas Territories:** The UKHO hosted representatives from Anguilla, Bermuda, the British Virgin Islands, the Cayman Islands, Montserrat and the Turks and Caicos Islands for a Hydrographic Governance Workshop, funded by the UK Governments Overseas Territories Seabed Mapping Programme (OTSMP). The Workshop provided the participants with a greater understanding of Hydrographic Governance and how they can improve compliance with their international maritime obligations, in particular SOLAS Chapter V Regulation 9 for Hydrographic Services. This also provided a great networking opportunity for the participants for them to share information, challenges and best practice.

5.4. **Montserrat Survey Support:** The UKHO has continued to provide Capacity Building support to the Montserrat National Hydrographic Authorities in the continuation of building their own survey capability. Recent support has included data processing support. The UKHO has also recently provided the local authorities with data collected by HMS PROTECTOR in 2023, to support the growth of their own Blue Economy.

## 6. **P5 YEARBOOK LATEST UPDATE:**

The UK updates the IHO P5 Yearbook entry every year. The latest information is outlined within the [IHO P5 Publication](#).

## 7. **UKHO POINTS OF CONTACT:**

**UKHO Website:** [GOV.uk/UKHO](https://gov.uk/ukho)

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