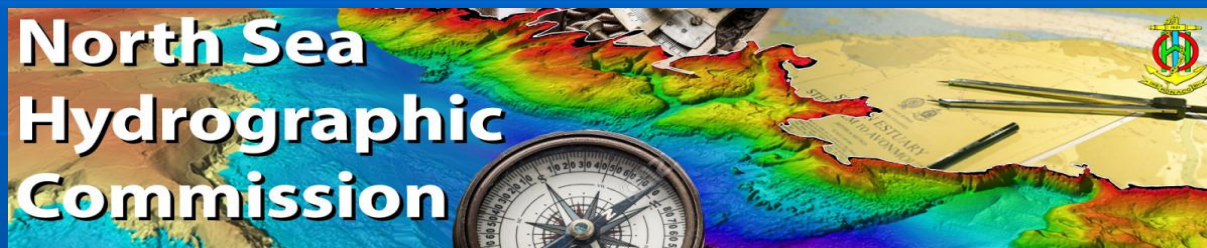




International Hydrographic Organization



North Sea Hydrographic Commission

32<sup>nd</sup> Conference

Dublin, Ireland

21 - 23 June 2016

IHO / IHB Matters

# IHO / IHB Matters

## Contents

- IHO Administration
- IHO GIS and Databases
- Current issues
- IHO Outreach
- Action requested



# IHO Administration

- Approval of the Protocol of Amendments to the IHO Convention
  - 48\* approvals / 48 required (ref. 2005)
    - \*3 subject to formal confirmation by Monaco Government*
  - All NSHC Member States which are entitled to ratify the Protocol have notified their approval (2005-2015)
  - The Convention as amended will enter into force 3 months after the reception by the Depository of the 48<sup>th</sup> ratification



# IHO Administration

## ■ Status of IHO membership

### • Membership

- 85 Member States
- 3 Suspended Members
  - Democratic Republic of the Congo
  - Dominican Republic
  - Serbia

### • Thresholds

- Current regime: Simple majority: 42 - 2/3 majority: 55  
Not responding to a vote by CL = vote “No”  
NSHC response rate in 2015 = 92,5%
- New regime: *the decisions* (when endorsed by the Council) *shall be taken by a majority of the Member States who cast a vote, with the minimum number of affirmative votes being at least one-third of all Member States.*



# IHO Administration

- Status of IHO membership

- Awaiting accession

- Mauritania (1991)

- Bulgaria (1992)

- Sierra Leona (2010)

- Haiti (2012)



# IHO Administration

## ■ Status of IHO membership

### • Pending applicants

Malta	30/53	BE DK FR DE IS IE NL NO SE UK
Vanuatu	30/54	BE DK FR DE IS IE NL NO SE UK
Solomon Islands	33/55	BE DK FR DE IS IE NL NO SE UK
Congo	33/55	BE DK FR DE IS IE NL NO SE UK

*Note: Pending applicants will be invited to deposit their instrument of accession as soon as the Protocol of Amendments is ratified*



- IHO Administration
- IHO GIS and Databases
- Current issues
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- Action requested



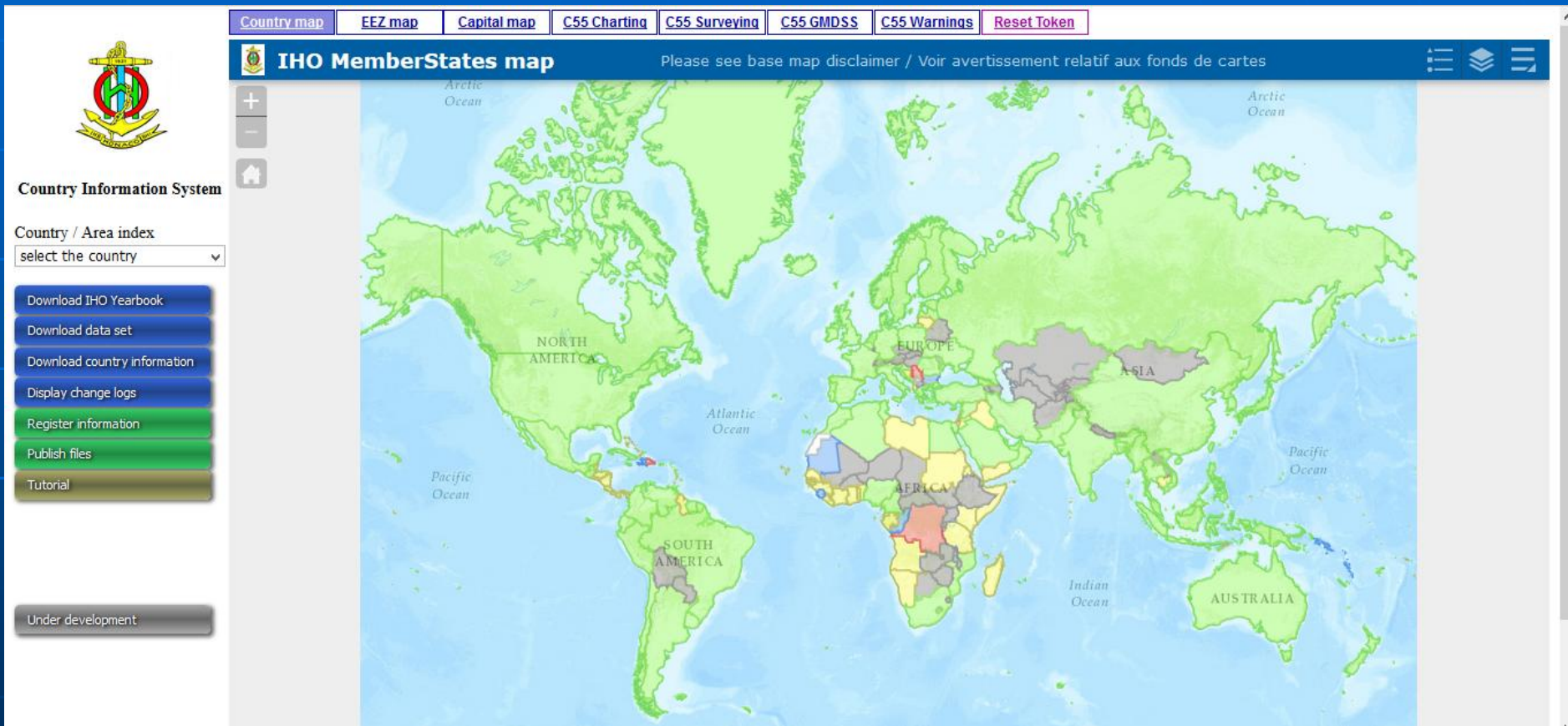
# IHO GIS and Databases

- Further development of the IHO GIS
  - Improvement of the country information database => P-5
  - Implementation of an Esri-based solution for the regional information database
    - IHO ENC Catalogue
    - IHO Antarctic GIS
    - C-55 (inclusion of CATZOC polygons)





# Country Information Database



The screenshot displays the IHO MemberStates map website. At the top, a navigation bar includes links for [Country map](#), [EEZ map](#), [Capital map](#), [C55 Charting](#), [C55 Surveying](#), [C55 GMDSS](#), [C55 Warnings](#), and [Reset Token](#). The main header features the IHO logo, the title "IHO MemberStates map", and a disclaimer: "Please see base map disclaimer / Voir avertissement relatif aux fonds de cartes".

On the left side, there is a sidebar with the IHO logo and the text "Country Information System". Below this, a "Country / Area index" section contains a dropdown menu labeled "select the country". A vertical stack of buttons includes: "Download IHO Yearbook", "Download data set", "Download country information", "Display change logs", "Register information", "Publish files", and "Tutorial". At the bottom of the sidebar is a button labeled "Under development".

The central area is dominated by a world map showing the IHO member states. The map is color-coded by region: North America (light green), South America (light green), Europe (light green), Africa (yellow and orange), Asia (purple), and Australia (light green). The map is surrounded by labels for the Arctic Ocean, Atlantic Ocean, Indian Ocean, and Pacific Ocean. On the left side of the map, there are navigation controls: a plus sign for zoom in, a minus sign for zoom out, and a home icon.



# IHO ENC Catalogue

**ENC Coverage Catalogue - June 2016** Please see base map disclaimer / Voir avertissement relatif aux fonds de cartes

World

**Legend**

- Large Ports
- UB5
- UB4
- UB3

**UB3**

FID	1,113
CELLNAME	DK3HORRO
PRODUCER	Denmark
SCALE	90,000.00
USAGE_BAND	Coastal
CELL_TITLE	North Sea. Horns Rev - Romo
RENC_MEMBE	IC-ENC
EDITION_NO	39.00
EDITION_DA	July 15, 2015
UPDATE_NO	6.00
UPDATE_DAT	May 23, 2016

[Zoom to](#)

200mi 51.809 23.423 Degrees



# C-55 Developments

The screenshot displays the C-55 Coastal Warning web application. At the top, a navigation bar includes tabs for Country map, EEZ map, Capital map, C55 Charting, C55 Surveying, C55 GMDSS, C55 Warnings, and Reset Token. Below this, a secondary navigation bar shows Local, Coastal (selected), NAVAREA, and Port info. The main content area is titled "Coastal Warning" and features a world map with color-coded coastal warning zones. A legend on the right, titled "Legend\_2", defines the colors: blue for YES, red for NO, yellow for Partial, white for Unknown, and grey for N/A. The interface also includes a sidebar with a "Country Information System" section, a "Country / Area index" dropdown, and several action buttons: Download IHO Yearbook, Download data set, Download country information, Display change logs, Register information, Publish files, and Tutorial. A "Under development" button is located at the bottom left. The top right corner contains a "Set center" checkbox and input fields for Latitude, Longitude, and Level.

Country map | EEZ map | Capital map | C55 Charting | C55 Surveying | C55 GMDSS | C55 Warnings | Reset Token

Local | Coastal | NAVAREA | Port info

Coastal Warning

Legend\_2

C55\_test\_download\_map2

- YES
- NO
- Partial
- Unknown
- N/A

Country Information System

Country / Area index

select the country

Download IHO Yearbook

Download data set

Download country information

Display change logs

Register information

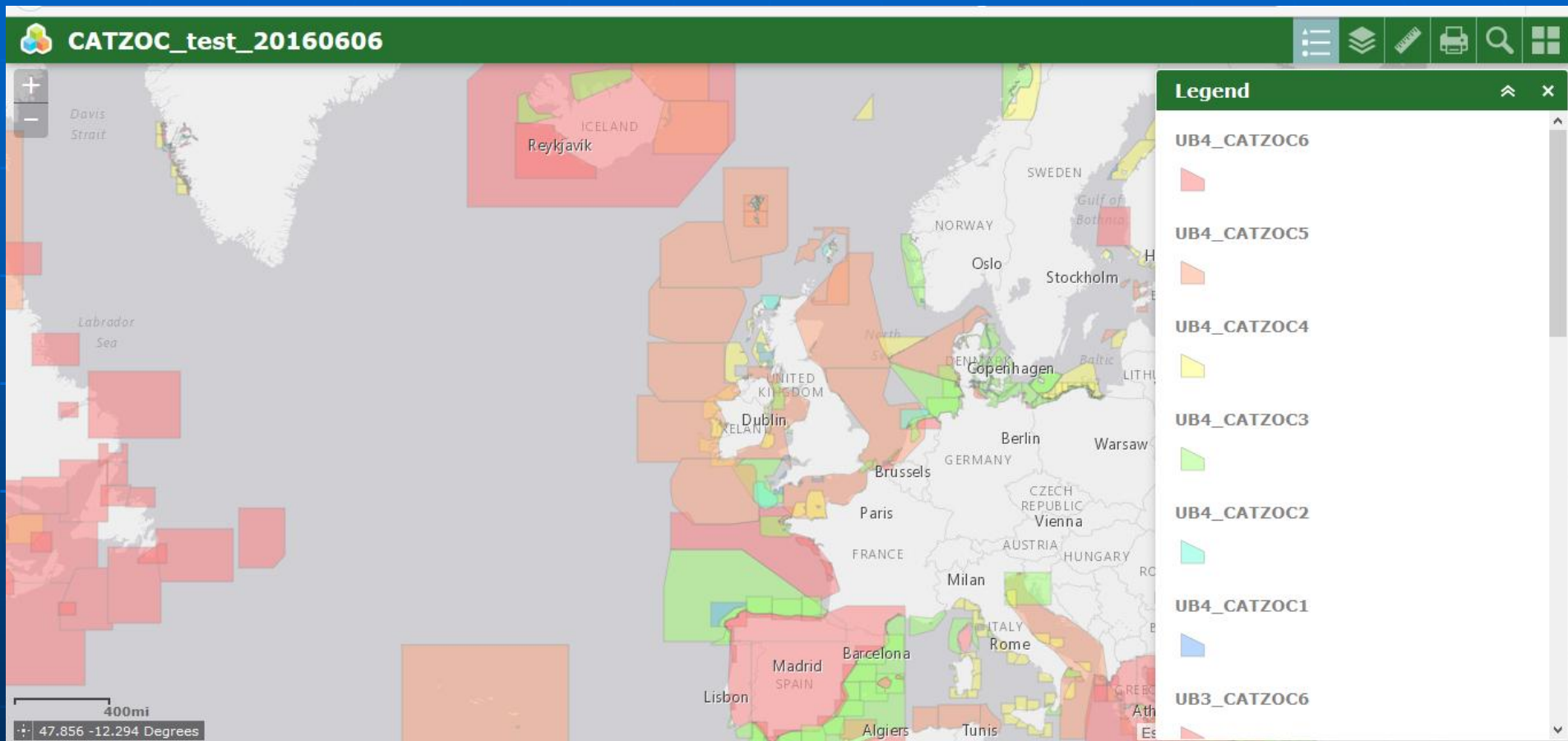
Publish files

Tutorial

Under development



# C-55 Developments

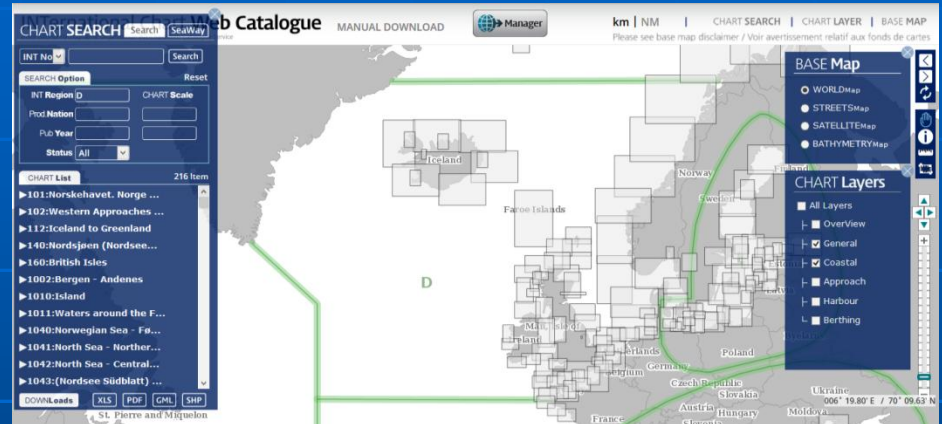


# IHO GIS and Databases

## ■ GIS/S-100 based “INToGIS” Project with the support of ROK

- INT Chart Web Catalogue

### INT Chart on-line Web Manager Services



- Maintenance of the pdf version of S-11 Part B - Catalogue of INT Charts discontinued on 1 April 2016
- Workshop for Regional INT Chart / ENC Coordinators IHB on 25 April 2016 (Review of the feedback and lessons learned)
- Login information provided to: BE, FR, DE, NL, NO, SE, UK



# IHO GIS and Databases

- *Status of the information provided by NSHC Members*

Country	P-5 (Yearbook)	C-55
BE	2015	2014
DK	2016	2015
FR	2015	2015
DE	2015	2015
IS	2016	2010 (no change reported in 2016)
IE	2014	2013
NL	2015	2015
NO	2015	2015
SE	2016	2015
UK	2015	2014



- IHO Administration
- IHO GIS and Databases
- Current issues
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# INT Chart and ENC Production / Coordination

- Pub. S-11 - Part B - Catalogue of INT Charts - Section D
  - Regional Coordinator: UK
  - Edition 3.0.1 – April 2016
  - 216 INT Charts in the scheme - 215 INT Charts available
- Plan to include ENC scheming and coverage in INTtoGIS
  - WENDWG6 invited RHCs to define and adopt ENC Schemes and provide basic metadata to the IHB
  - A few ENC overlap issues in region D were reported to WENDWG

➤ See Agenda Items B3 and F1





# Information on ECDIS back-up arrangements using paper charts

Country	Date of requirements for ECDIS back-up arrangements using paper charts	Link to on-line chart catalogue
Belgium	2007	Yes
Denmark	2007	Yes
France	2014	Yes
Germany	2007	No
Iceland	2016	Yes
Ireland	None	No
Netherlands	2015	Yes
Norway	2007	No
Sweden	2007	Broken link
United Kingdom	2007	Yes



# Capacity Building Programme

- The level of CB activities continues to increase
- NSHC Countries provide in-kind support to CB activities



# Crowd-Sourced Bathymetry

- IRCC-7 established the Crowd-Sourced Bathymetry Working Group (CSBWG) to provide guidelines on the collection and use of crowd-sourced bathymetry (FR & UK are represented in the WG)
- IHO DCDB is being upgraded to collect and make available crowd-sourced bathymetric data



# Status of the Work Programme

- EIHC-5 introduced a biennial assessment based on summary reports from all IHO organs
- Three successive assessments reported in IHO CL 17/2015, 66/2015 and 14/2016
- 6 Regional Hydrographic Commissions submitted a status report (EAtHC, MACHC, NIOHC, NHC, NSHC, SAIHC)
  - Lack of awareness of the importance of hydrography and the under-development of hydrographic capabilities are the main issues reported by RHCs



# Next IH Conference / IHO Assembly

- Dates: from 24 to 27 April 2017
- On-line registration from 1 September 2016
- Expected to be the first session of the Assembly
- Agenda items in the case of an Assembly
  - Revision of the IHO Strategic Plan
  - Adoption of the IHO Work Programme for 2018-2020
  - Establishment of the Council
    - ↳ RHCs are expected to agree before October 2016 on the process by which they will allocate their seat(s) in the Council, and possibly instruct, the relevant representative(s) (**see Agenda Item A4**)
  - Election of the Secretary-General and two Directors



- IHO Administration
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# IHO Outreach

## ■ World Hydrography Day

- Theme 2015: Our seas and waterways - yet to be fully charted and explored

↳ [www.iho.int](http://www.iho.int) > Home > About IHO > World Hydrography Day > WHD 2015 Celebrations around the world.

- Theme 2016: Hydrography – the key to well-managed seas and waterways



# IHO Outreach

- International Hydrographic Review
  - NSHC represented in the Editorial Board by Lars Hansen (Denmark)
  - Promotion of technical and other achievements in the region
  - Deadlines for submitting papers to the Editor:
    - End of January for the May Edition
    - End of July for the November Edition
  - Project of digital repository with the University of New Brunswick





- IHO Administration
- IHO GIS and Databases
- Current issues
- IHO Outreach
- **Action requested**



# Action requested

NSHC Member States are invited to:

- Expedite the approval of the IHO membership applications of Malta, Vanuatu, Solomon Islands and Congo
- Review entries related to C-55, P-5 (Yearbook) and ECDIS back up arrangements at least annually
- Provide continuous updates to S-11 Part B for INT Region D through the INTtoGIS tool
- Report to the IHB on the status and description of the ENC schemes in the Region
- Consider appropriate arrangements to prepare the IHO Assembly to be held in April 2017
- Consider submitting papers for publication in the IH Review

