



8th Meeting of the IHO Council

Report and proposals from IRCC

Agenda Item C8-04.2A

C-8, IHO Secretariat, Monaco, 15 – 17 October 2024



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IRCC REPORT

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Chaired by Mr. Thomas Dehling (Germany); Vice-chaired by Ms. Jennifer Jencks (USA)

Attended by 40 in person from 16 Member States.

The IHO Secretariat represented by Director Luigi Sinapi and Assistant Director Leonel Manteigas.

The 16th meeting of the Inter-Regional Coordination Committee (IRCC-16)



Puerto Ayora, Ecuador, from 10 to 12 June 2024, hosted by the National Defence Ministry through the Naval Oceanographic and Antarctic Institute (INOCAR), in the Charles Darwin Research Station on Santa Cruz Island.

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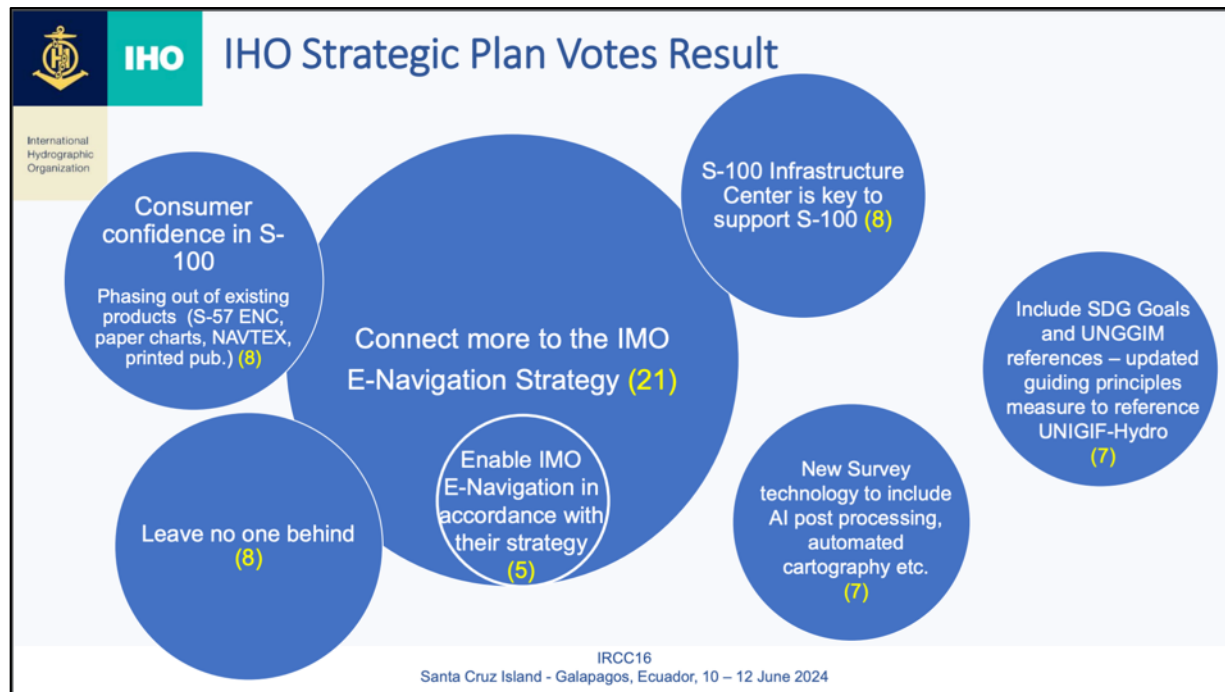
IRCC REPORT - HSSC

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HSSC Chair presented the progress of S-100 Implementation Roadmap and S-1xx products.

Highlights include:

- Recommendation from WENDWG to create S-11 Part C - Guidelines for the Coordination and Management of the Development of S-100 ENDS
- Liaison between NIPWG (lead) / S-100WG and WWNWS on S-100 dissemination related to e-navigation affecting potential S-100 “real-time” products



IRCC recommended RHCs to advise MS to respond to the IHO CLs in a timely manner to avoid delaying the S-100 Phase 1 ProdSpec approval process.

- *Very good cooperation between HSSC and IRCC*
- *Further topics are being dealt with under separate Agenda Items*



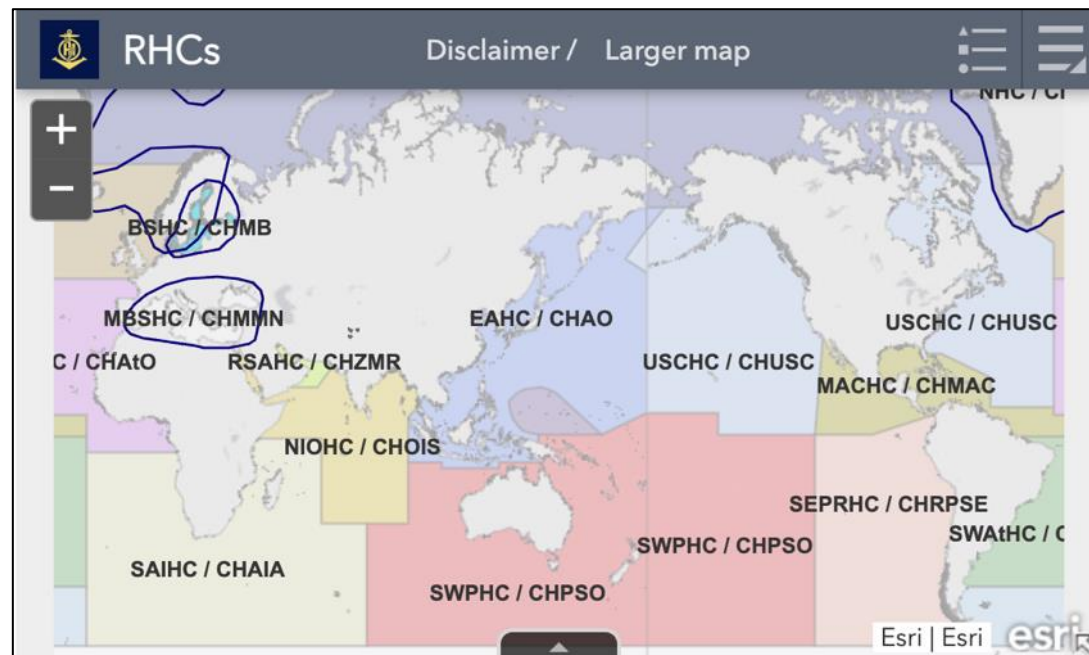
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IRCC REPORT - RHC

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RHCs focused their reports on the most important regional key achievements.
Excerpts of key findings:

- Harmonized development and implementation of S-100 products and services;
- Additional resource allocations to be found in order to start S-101 and S-102 production;
- Need to discuss how to better serve Sub-ECDIS customers with reliable, affordable and easy to access digital navigational products;
- Challenges with S-101 during parallel production of both S-57 and S-101 ENC's;
- Limited CB funds and need for S-100 projects;
- Enhancing gender balance in hydrography in some RHCs





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IRCC REPORT - HCA

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IRCC took note of the consideration to establish and manage a specific HCA action plan focused on the impact of climate change on the Southern Ocean.



IRCC recommended RHC Chairs to ask their MS and potential contributors to consider the extended activities in the implementation of the S-100 Roadmap for the HCA region.

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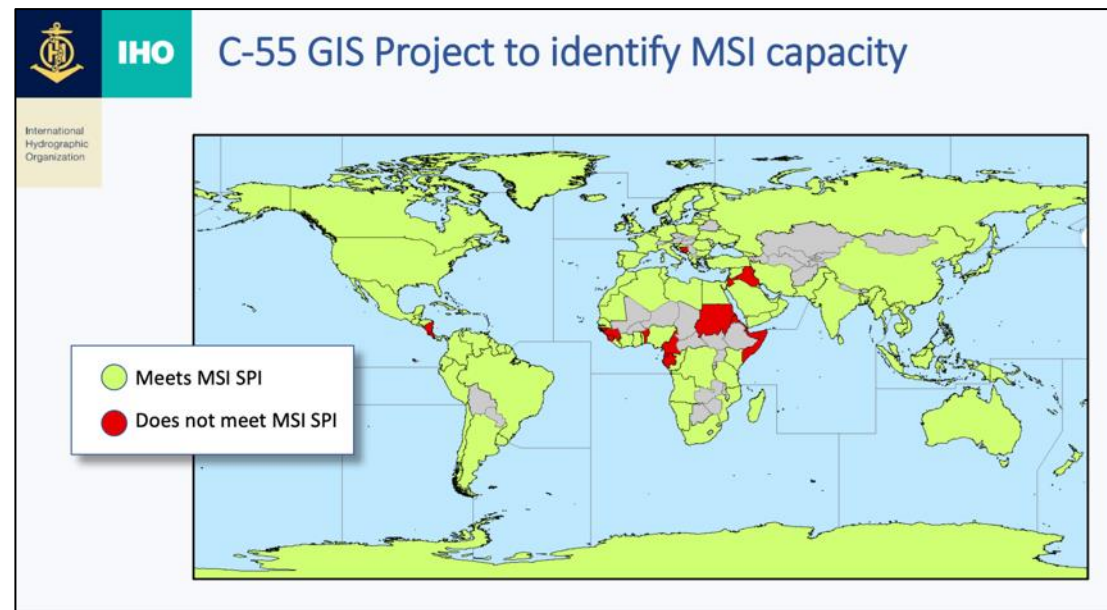
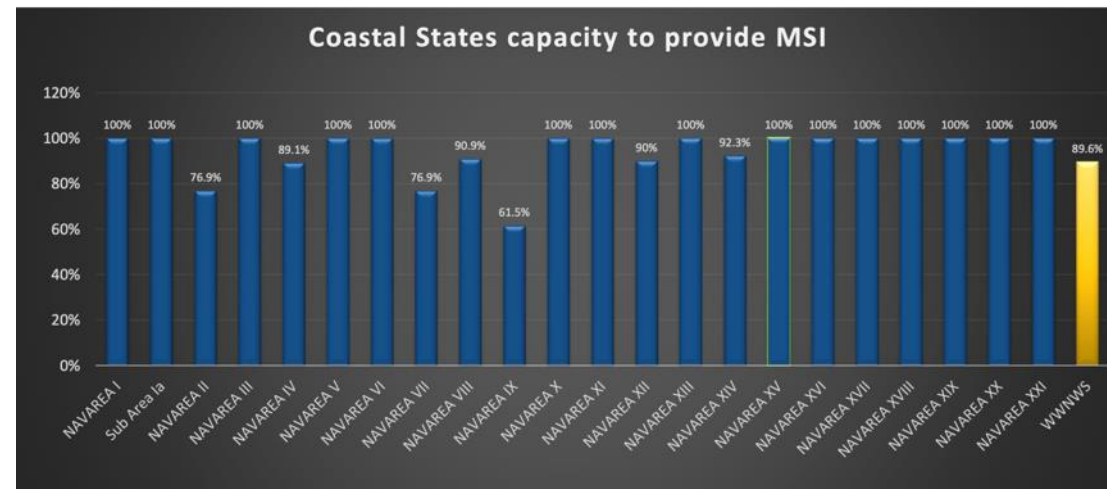


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IRCC REPORT - WNWNS

International

- 2024 MSI Coastal States capacity assessed to be 89.2% (IHO SPI 3.1.1 target is 90% by 2026)
- S-124 version 2.0.0 was endorsed by WWNWS and submitted to HSSC for approval
 - S-124 Document Encoding Guide draft version was completed and continues to be improved
 - MSC 108 approved the updated Joint IMO/IHO/WMO Manual on Maritime Safety Information
- WWNWS is working in cooperation with CBSC on a C-55 GIS project
 - Next step to move web map to IHO's ArcGIS online server
- WWNWS agreed that use of all IMO RMSSs should be mandatory.
 - **IRCC and WWNWS Chairs will send a letter** to those RHCs, where there is a need to implement IMO recognized mobile satellite services.





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IRCC REPORT - CAPACITY BUILDING

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- Generous financial contribution to CB from ROK, Japan (via NF) and CA are highlighted;
- Contribution from IHO MS (Belgium, Canada, Denmark, France, Norway, UK and USA) highlighted, allowing the EWH project to continue as decided at the 7th meeting of the Council;
- IRCC noted the significant effort from CB Coordinators to assess the needs in the region, to identify national and regional projects that may contribute to the CBWP and to coordinate the support for countries in need;



IRCC recommends RHCs to ensure representation of their region in the CBSC and encourage other IHO Member States to join in the work of the CBSC.



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IRCC REPORT - CAPACITY BUILDING

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Both RENCs presented plans for contributions to the CB Work Programme:

- IC-ENC with “Opt in fund” initiative
- PRIMAR is providing full e-learning package for five non-RENC member states.

Both RENCs thus are helping to increase the level of support for S-100 related CD.



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IRCC REPORT - CAPACITY BUILDING

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An overview on the IHO e-Learning Center was provided:

- General Manager Group established
- System Manager provided by ROK
- E-Learning site improved
- SC seeking e-Learning material from MS and partner organisations to be added to the e-Learning Center platform



IRCC recommends RHCs to encourage Member States to contribute e-Learning material to the IHO e-Learning Center



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IRCC REPORT - GENDER BALANCE IN HYDROGRAPHY

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Decision/Action C7/24: Council agreed on the way forward suggested by SG

- a. Council tasked IRCC to first define, through the CBSC, the regulatory framework (M-3) for a continued activity on this social theme through a proposal for an IHO Resolution;
 - b. The Council agreed to continue with the EWH project led by the CBSC, supported by remaining funds and future financial and / or in-kind support as currently announced by CA, NO, DK, US, but still to be confirmed.
 - c. The Council, supported by IRCC, to develop a proposal on the future framework for an IHO social Programme (incl. Gender Balance in Hydrography) to be submitted to A-4.
- CBSC has been tasked with actions **a)** and **b)** after C-7.
 - ◆ CBSC reported at IRCC16 about the progress regarding task **b)**.
 - Scoping Team consisting of representative/s from HOs and IHO DC, established at IRCC16, to draft TOR for a future Project Team regarding task **c)**.
 - Scope significantly narrowed and there are still some issues to be solved before installing a PT.



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IRCC report - WENDWG

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IRCC report - WENDWG

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- WEND100 Principles considered still sufficient to meet the objectives.
- Two Ad-hoc drafting groups established, focus:
 - Amendments to Guidelines on the Implementation of the WEND-100 Principles.
 - Develop a proposed Edition 1.0.0 of S-11 Part C “Guidelines for the Coordination and Management of the Development of S-100 Electronic Navigational Data Services (other than S-101 ENCs)”
- Draft of paper specifying the meaning of the term ENDS



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IRCC report - WENDWG

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- S-100 readiness level questionnaire in 2023
 - Estimate of 53% (SPI 1.3.1) using a basic statistical approach.
- IGIF Matrix considered important for HOs having no S-100 services scheduled yet
 - future annual completion by RHCs optional only



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IRCC report - WENDWG

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- RHCs representatives to develop their schedule to meet the 2026 IMO target (S-100 ECDIS)
 - lack of S-100 Coordinators in several RHCs
- Identified a need to consider the development of a communication strategy towards end-users, manufacturers, IMO, to be brought to the attention of the next Council for discussion and actions
 - addressing readiness and expected geographic coverage of S-100 based products and data services in the following years, from 2026 onward,.
- Product coverage
 - distribution model of the S-100 Phase I products and other ENDS under consideration



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IRCC report - WENDWG

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- IRCC recommends C-8
 - to note the development of S-11 Part C
 - to note the estimate of 53% S-100 readiness status (SPI 1.3.1)
 - to discuss the development of a communication strategy regarding the products from the S-100 suite

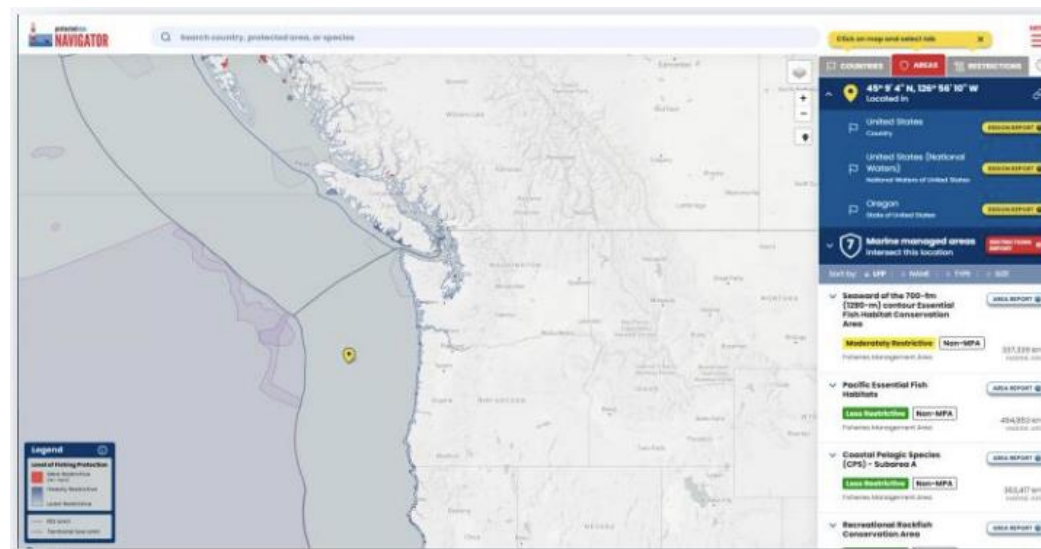


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IRCC REPORT - MSDI

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- MSDIWG last meeting held in conjunction with UN-GGIM and OGC
- IHO Strategic Plan Target 2.1 “*Build a portal...*”, and collaboration with UN-GGIM WG-MGI and OGC Marine DWG, were discussed.
- Following action C7/44, “... MSDIWG to establish a pilot project for the High Sea and MPAs adopted by IMO, to demonstrate the benefits of S-122 for non-navigation purposes.”,
 - **IRCC proposes** that the task of MSDIWG should be modified as “*MSDIWG to monitor and provide assistance to the S-122 Protected Seas pilot project with specific focus on the High Seas and MPAs adopted by IMO, to demonstrate the benefits of S-122 for non-navigation purposes*”.
 - **This will mean avoiding duplication of work and a significant reduction of workload to MSDIWG.**



ProtectedSeas Navigator



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IRCC REPORT - IHO EU NETWORK

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- IENWG meeting again together with European Maritime Days (EMD) 2024, where IHO and Seabed 2030 participated in EMODnet stand.
- A new group was formed by the EC on the vision 2035 of EMODnet, and a representative from the IENWG was invited as a member.
- **IRCC acknowledged** the IENWG and EC interactions on the capacity development in liaison with the CBSC, the promotion of the S-100 products and the data collection needs, as appropriate.
- IENWG produced a document on *“IHO and EC Cooperation in Third Countries – A proposal for Hydrographic Capacity Development”*, aimed to increase the hydrographic capacity also outside EU.



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IRCC REPORT - IBSC

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- IBSC still sees a significant number of shortcomings in the 17 submissions received (none recognized, for 15 inter-sessional revisions offered).
- IBSC started revision of S-5 and S- 8 standards.
 - Several workshops with stakeholders have been executed and more are planned.
- Process for recognition of S-5 Standards Subjects established and respective fees defined.
 - **IRCC approved** the IBSC Revised TOR.
- Positive returns from the EWH project's interns, to be continued for the revision of the Standards.
- IBSC will liaise with CBSC for the future maintenance of the C-47 publication and will present the outcomes to IRCC in 2025.



Result of submissions from IBSC47

2024 Status	In the IBSC47 Meeting		Intersessional Revision	After Intersessional Revisions	
	N Total	Standards		N Total	Standards
Recognized		S-5A			
		S-5B			
		Scheme			
Could be Recognized	15	9	S-5A	9	
		1	S-8A	1	
		5	S-5B	5	
Not Recognized	2	1	S-5B		
		1	S-8A		
Total	17			15	

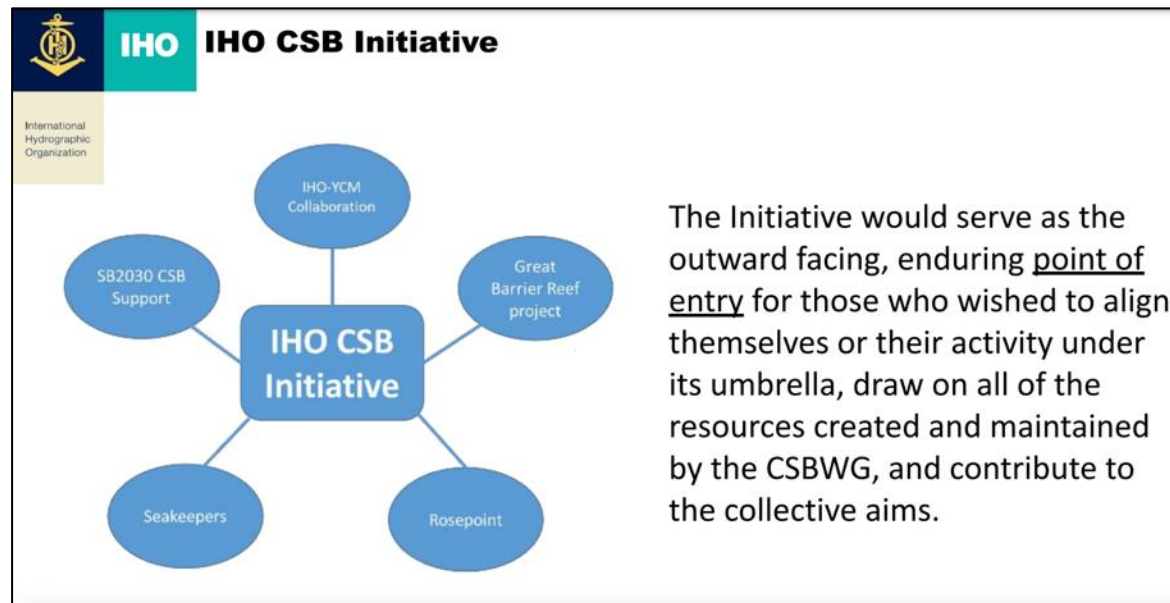


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IRCC REPORT - CROWDSOURCED BATHYMETRY

International

- Last year, the CSBWG focused on a critical review of the group's operating mandate, identifying 10 high level priority work areas and developed a multifaceted work plan.
- It was noted, that in order to draft a submission to the UN Decade, an “IHO CSB Initiative” would first need to be more formally defined.
 - The IHO Secretariat presented a proposal for how to incorporate the development and governance of an IHO CSB Initiative into the CSBWG Work Plan.
- **IRCC approved** addition of new CSBWG Work Item K: Deliver the IHO CSB Initiative
- **IRCC recommends** RHCs to encourage Member States
 - to engage with the CSBWG, either formally (by joining the CSBWG) or informally (attending CSBWG meetings, engaging with CSBWG members or their RHC CSB Coordinators with questions, concerns);
 - to support CSB with positive actions, such as encouraging vessels, from all sectors, to collect and contribute bathymetric data when involved in routine maritime operations



CSBWG15 - ~80 participants (20 in person)



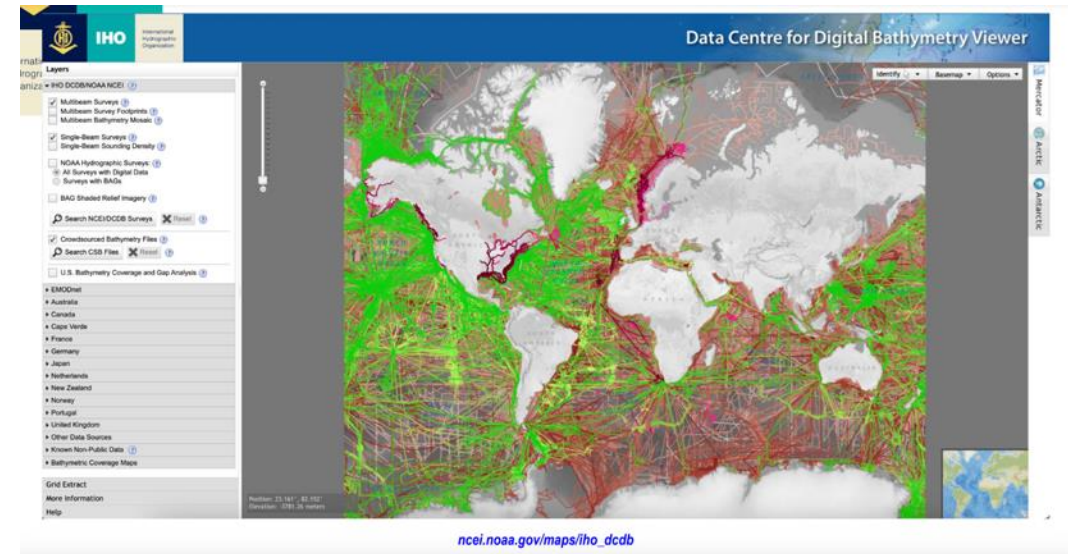
CSBWG14 - ~60 participants (25 in person)



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IRCC REPORT - DCDB

- The DCDB Director reported on DCDB achievements over the last year.
 - Since June 2023, 93 new multibeam bathymetry surveys have been archived.
 - New CSB data ingest pipelines finalized with CIDCO, Seabed 2030, International Seakeepers Society, and COMIT
 - New Ingest-to-archive data pipelines almost operational
 - The CSB Coastal State Review Application (CSRA) tested in late 2023 and will soon be fully operational, will reach out to all coastal States who requested pre-approval of CSB data and provide them training and access to the CSB CSRA.
 - DCDB developed and continues to host the GEBCO Gazetteer
- **IRCC recommends** RHCs to encourage Member States and community bathymetric data contributions to the DCDB, regardless of origin, resolution or quality.
- **IRCC recommends** RHCs Chairs to collaborate with the DCDB on developing and highlighting annual regional breakdowns of data holdings.



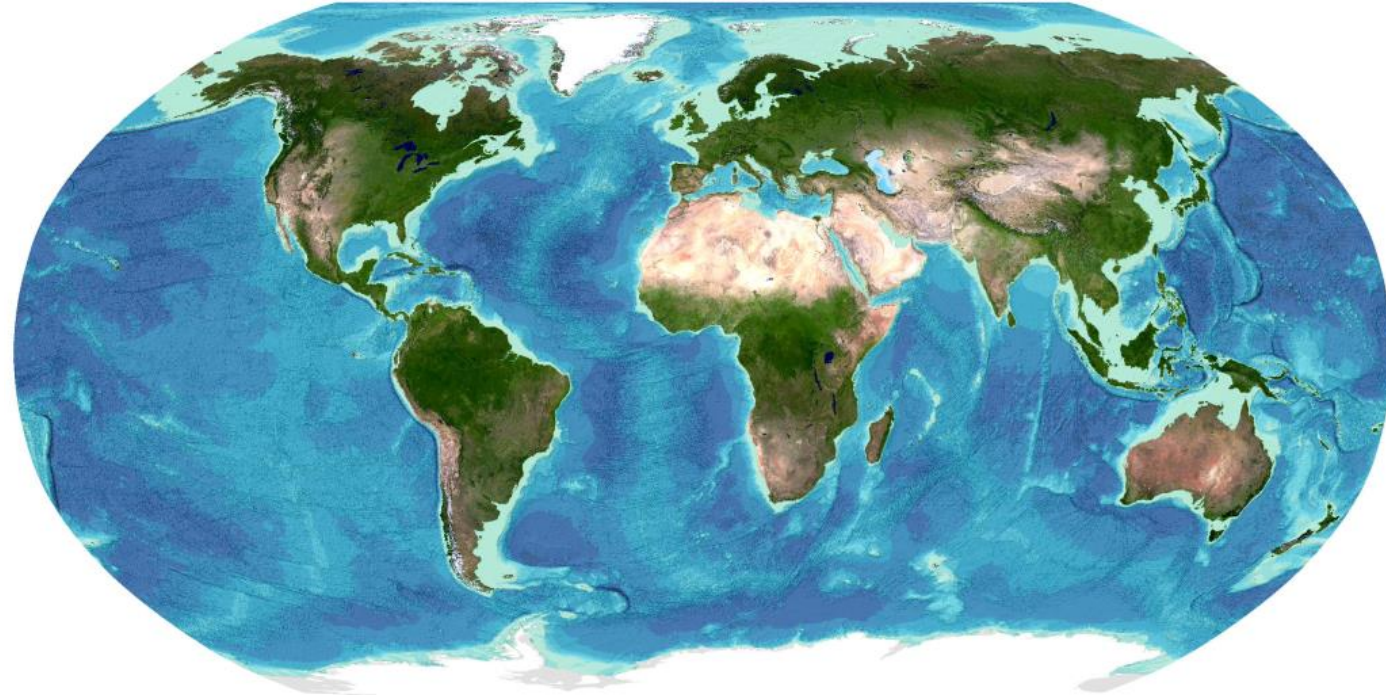


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IRCC REPORT - GEBCO

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- GEBCO GC has been working on
 - celebrations of GEBCO 120 years of ocean discovery;
 - New GEBCO strategy;
 - GEBCO Code of Conduct;
 - GEBCO Governance review.
- Intense cooperation with Seabed 2030.
- New GEBCO Sub-Committee on Education and Training was established.
- **IRCC endorsed** the GEBCO strategy and the GEBCO Governance Review report.





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IRCC REPORT - PT ON FUNDING

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- **Fund Generation Project Team** under IRCC established as a result of A-3 (Decision 20) and C-7
- Three meetings held; Chair, Vice Chair and Secretary elected.
- Initial focus to develop a prioritised list of activities and review from IRCC and HSSC to validate this list
- Focus to identify funding based on:
 - Existing/short-term options
 - Long term strategic options
- PT TOR adjusted and **approved by IRCC**
- **IRCC approved** the PT outline work plan

Denmark - Hendrik Stang

UK - Thomas Richardson

Guyana - Thandi McAllister

Sweden - Magnus Wallhagen

France - Adeline Souf

USA - Christina Fandel

IC-ENC - James Harper

Australia – Rebecca Cusack



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IRCC REPORT - GENERAL STRATEGIC ISSUES

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- IRCC opened a discussion on the Axis of evolution of the IHO Strategic Plan.
- Three groups were created to brainstorm on the:
 - Strategic Plan structure,
 - Governance and Role of IRCC,
 - Measurement system (SPI), and
 - Aspects concerning RHCs and IRCC bodies
- Main outcomes of the brainstorming session as well as the input from RHCs and subordinate bodies will be provided for the Strategic Plan Review.



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IRCC REPORT – IRCC WORKSHOPS



*Organised and hosted by members of the CSBWG and the IHO Secretariat
26 April 2024*

International Hydrographic Organization

- 107 participants from over 50 coastal States
- The IHO and the CSBWG consider the workshop a success
 - Active engagement with over a dozen questions posed, time to provide adequate answers, and positive feedback provided during the event and afterwards
- Several MSs have since reached out reiterating the value of this type of engagement and highlighting that previous modes of communications around the various aspects of CSB had not always been clear.

SESSION 1		
1320-1335	How CSB is supporting the UN Decade, GEBCO, & The IHO Strategic Plan	Belen Jimenez Baron
1335-1340	Q&A	All
1340-1355	Legal Considerations & Misconceptions	Steve Keating
1355-1400	Q&A	All
1400-1415	BREAK	
SESSION 2		
1415-1430	Utility of CSB (The NOAA Example)	Anthony Klemm
1430-1435	Q&A	All
1435-1450	Implementation of CSB in waters of national jurisdiction: the FRANCE case.	Laurent Kerléguer
1450-1455	Q&A	All
1455-1510	CSB and the world of Yachting: the experience of the Yacht Club de Monaco (YCM)	YCM (speaker TBD)
1510-1515	Q&A	All
1515-1530	FINAL WRAP-UP AND DISCUSSION on Developing CSB inside and outside the IHO Community	IHO Secretariat Jennifer Jencks
END OF WORKSHOP		



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IRCC REPORT – IRCC WORKSHOPS

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- A second workshop is planned later this year with the aim to provide additional guidance and clarifications to the institutions on the preparation of submissions to the Board, aiming at more profound submission and less review needs.
- The organization is on the IBSC in liaison with IHO Secretariat.
- The workshop will be open online events.



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IRCC REPORT - NEXT MEETINGS

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- IRCC16 is planned to be held on 3-5 June 2025 in Monaco at the IHO Secretariat.
- The meeting is scheduled to be in conjunction with UN Oceans Conference in Nice



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IRCC REPORT - ACTIONS REQUESTED FROM THE COUNCIL

The Council is invited to:

- a) note the report of the IRCC;
- b) note that many RHCs reported of the importance of CB activities and the need for additional funds especially to support S-100 developments in their regions.
- c) note the progress regarding Decision/Action C7/24 on Gender Balance and give further guidance on part c) of the decision.
- d) approve modifying the task of MSDIWG regarding S-122 to “*MSDIWG to monitor and provide assistance to the S-122 Protected Seas pilot project with specific focus on the High Seas and MPAs adopted by IMO, to demonstrate the benefits of S-122 for non-navigation purposes*”;
- e) note the progress of the Funding PT and the other initiatives regarding additional funding (RENCs and IENWG);
- f) consider using the input from IRCC regarding the Strategic Plan reviews process;
- g) note the excellent cooperation between HSSC and IRCC as well as its subordinate bodies;
- h) take any other action considered appropriate.