



# 16<sup>th</sup> Meeting of the Hydrographic Services and Standards Committee

## Report of the Inter-Regional Coordination Committee (IRCC)

### Agenda Item 7.1

HSSC-16, Tokyo, Japan, 27 – 31 May 2024



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**IRCC REPORT**

International  
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15th meeting of the Inter-Regional Coordination Committee (IRCC-15) held in Tokyo, Japan, from 12 to 14 June 2023, hosted by JHOD, the Hydrographic and Oceanographic Department of the Japan Coast Guard.

Elections:

Chair: Mr Thomas Dehling (Germany)

Vice-Chair: Ms Jennifer Jencks (USA)

IRCC-16 is planned to be held 10-12 June 2024 in Puerto Aroya, Ecuador



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## PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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The Inter-Regional Coordination Committee (IRCC) is the steering committee of the IHO for inter-regional coordination and support.

Members: Chairs of the 15 RHCs and of HCA

Chairs of 9 subordinate bodies

(WWNWS, CBSC, WENDWG, MSDIWG, IENWG, CSBWG, IBSC, DCDB, GGC)

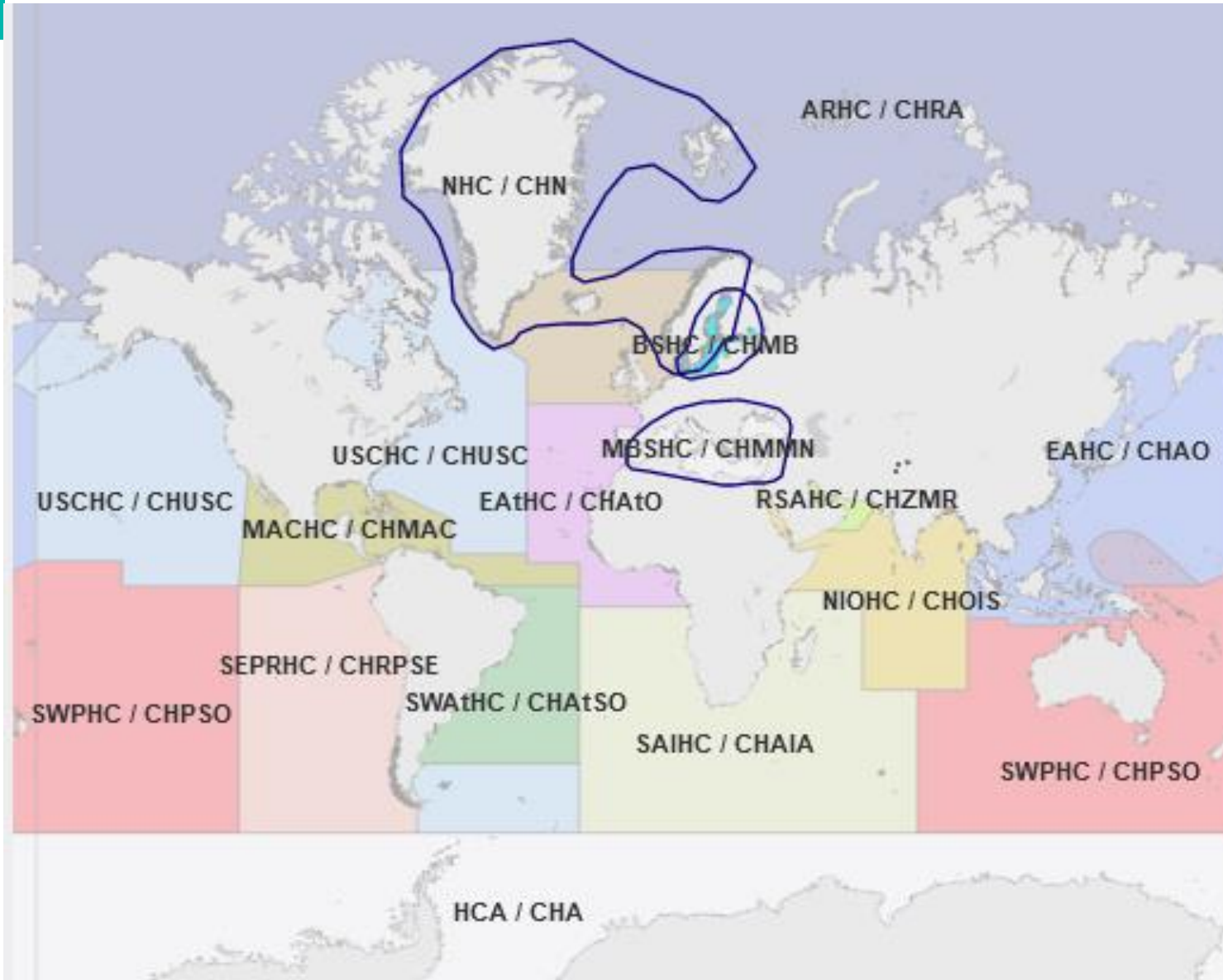
Excellent cooperation between IRCC and HSCC



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# PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

International  
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- HCA
- WWNWS
- CBSC
- WENDWG
- MSDIWG
- IENWG
- CSBWG
- IBSC
- DCDB
- GEBCO



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# **PRINCIPAL ACTIVITIES AND ACHIEVEMENTS**

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## **Actions from HSSC with relevance for IRCC**

**No pending actions**



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**IRCC REPORT - RHC**

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## **Regional Hydrographic Commissions**

The RHC Chairs main concerns were related to

- the need of collaboration and coordination in the implementation of the S-100 Roadmap,
- the need to increase the Capacity Building activities at regional levels,
- the lack of participation in the RHCs' activities and meetings

Good progress in the inter-regional cooperation and successful partnership with industry and stakeholders, especially in CB and new technology.



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**IRCC REPORT - HCA**

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## **Hydrographic Commission on the Antarctica**

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.

IRCC recommended RHCs and Subordinate Bodies to consider to open the debate on future engagement in climate change related activities in reference to strategic goal 3.

Decision A3-17



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IRCC REPORT - MSI

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## Maritime Safety Information, WWNWS-SC

- Held a joint meeting with WMO Worldwide Met-Ocean Information Warning Service
- focused on S-124 progress and Iridium SafetyCast Implementation
- provided feedback on IHO SPI 3.1.1 assigned to WWNWS. 2023, WWNWS assessed MSI capacity to be 87% (target 90%).
- presented demo on C-55 GIS project that will be evaluated to be incorporated into the INTToGIS III.
- Reported that NCSR10 approved the joint IMO/IHO/WMO Manual on Maritime Safety Information.

IRCC recommended RHCs to encourage relevant MS to report to IMO and Chair of EGC Coordinating Panel on the progress of implementation of newly recognized mobile satellite services by MSI providers.





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# IRCC REPORT - WENDWG

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## **S-101 production challenges**

S-100 Communication Strategy

SENC Provision

Strategy for Data Services

End-user requirements and  
expectations

S-11 - Part C

IGIF MATRIX

ISO 9001

S-128 and INTToGIS III

Various RHCs raised concerns regarding S-101 spec still being in draft.

Future delays in finalization will lead to RHCs not being able to produce S-101 by Jan 2026 as vendors need time to implement the specs into software.



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S-101 production challenges

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IHO needs to develop a consolidated communication strategy.

Focus on readiness and expected geographic coverage of S-100 based products and data services in the following years, from 2026 onward.

Stakeholder affected are:

End-users, manufacturers, IMO.



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PRIMAR Advisory Committee decided to not support SENC/System Database distribution of S-100/S-101 data.

HSSC should consider technical impacts and consequences.

WENDWG highlighted in particular the signature file loss.



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WENDWG underlines the importance that the S-100 Roadmap should highlight that the S-100 strategic approach to support and attract end-users for the IHO is not to complete the full S-101 coverage first, then consider the other products.

IHO to discuss and develop new distribution models such as a “one-stop-shop for all S-100 data services along a given route” (Source: Chartworld) ensuring that end-users can easily access and get all S-100 Phase I products and ENDS in confidence along a given route.

HSSC to consider potential support by technical standards including cybersecurity and integrity measures.



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Stakeholder vision of a standardized services for ECDIS, recommending i.e. the implementation of pull-mode cyber secure options from different sources of information using the SECOM interface (IEC 63173-2) on the Maritime Connectivity Platform.

IHO should be aware of “collateral” issues (data transmission, etc.), acknowledging that they are certainly not in the remit of the IHO itself.



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WENDWG decided to recommend to IRCC, Cc: HSSC and IHO Secretariat to start drafting an S-11 Part C, without the obligation to go through the NCWG as current custodian of S-11 Part A.

Proposed Title “*Guidelines for the Coordination and Management of the Development of S-100 Electronic Navigational Data Services (except S-101 ENCs)*”



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**IGIF MATRIX**

ISO 9001

S-128 and INTToGIS III

IGIF Matrix considered important for HOs having no S-100 services scheduled yet. The WENDWG agreed to make the annual fulfilment of the WEND100-IGIF matrix by RHCs optional only.

A new readiness level questionnaire was released in fall 2023 indicating an S-100 readiness level estimate of ~53% using a basic statistical approach.

A follow-up survey on the readiness level of ENC Producing Member States is scheduled for November 2024 for calculating SPI 1.3.1 in preparation of the IHO Annual Report, and WENDWG-15 meeting.

IHO MS under RHCs coordination, keen to prevent the IHO from failing the commitments against the IMO.

Noting the complexity of the S-100 eco-system, the WENDWG also invited the RHCs Representatives to consider more carefully the possibility of developing a capabilities-based approach at regional level.



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**ISO 9001**

S-128 and INTToGIS III

IRCC tasked WENDWG to mirror the HSSC ISO Cell on S-101 with the following scope:

“RHC S-101 production/coordination/distribution in the near future”.

WENDWG agreed on the potential benefits of introducing ISO 9001-like Principles into S-100 Coordination and Production activities.

No progress was made at WENDWG-14 due to lack of resources.





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**S-128 and INTOGIS III**

INToGIS III experienced only minor progress.

WENDWG invited the representative of the ROK to liaise with the IHO Secretariat/WENDWG Chair, to establish a management plan of this INTOGIS III Project and ensure that a solution can be found shortly (risk: high).

WENDWG recognised INTOGIS III as a key IHO component of the S-100 Implementation Roadmap, necessary to provide IMO NCSR with recognized and accurate plans and updates from 2025 onwards.

If INTOGIS III commissioning delays further, the WENDWG will propose the IRCC to recommend the RHCs to consider using off-the-shelf interim solutions (QGIS).

CA provided a vision of an integrated national S-128 catalogue. Germany has a similar approach.

The WENDWG agreed to consider the possibility of testing the interoperability of the Canada Hydrographic Service Catalogue and INTOGIS III.



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# IRCC REPORT – MSDI

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The Marine Spatial Data Infrastructures Working Group (MSDIWG) embarked on an update of the C-17 publication (version 3.0)

- with a cookbook for HOs on also advancing existing MSDIs and addressing all levels of MSDI maturity - leaving no one behind;
- an “IGIF-aligned MSDI implementation”, explaining the bridge between the MSDI 4 pillars to the UN-GGIM IGIF 9 strategic pathways.

IRCC approved the application of ISO 9001- 7 Quality Management Principles from MSDI Perspective and for inclusion into IHO C-17 version 3.0, which was approved by IHO Member States (cfr. IHO CL 33/2023).

In accordance with A-3 Decision 8 point c), IRCC tasked MSDI to **not** invest in another portal, but to focus on the existing global thematic layers already available on the INTToGIS.



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# **IRCC REPORT – IHO EU NETWORK**

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The IHO-EU Network Working Group (IENWG) and DG MARE discussed new opportunities for collaboration, covering also EU policies of interest for the IHO, projects and strategy.

The strategy for the IENWG is under review and the way forward under discussed, highlighting Maritime policies in order to continue to monitor and influence the EU policies, focusing on

- the development of the S-100 hydrographic products and services, in order to promote them across the European Commission;
- the IHO CB programme, in order to promote the development of hydrographic capacity within and outside the EU, in particular for safe sea lines with East Asia and Africa, in connection with IRCC initiatives to extend CB funds,
- the data collection.

Meeting of IENWG parallel to HSSC this week back to back with the European Maritime Day (EMD) 2024 in Svendborg – Denmark.



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## **IRCC REPORT – IBSC**

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FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) reported on number and quality of submissions. A high number of inadequate submissions cause additional workload to the Board.

The Board decided to develop a pathway to recognize Subjects of the S-5 Standards S-5A & S-5B in addition to the recognition of full programmes.

The Board discussed the need to update the Standards and potentially create a new standard for Marine Spatial Data Professionals.

IRCC tasked the IBSC in liaison with the IHO Secretariat to organize an online IRCC workshop to provide clarifications for the institutions on the preparation of submissions to the Board.



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# IRCC REPORT – CROWD SOURCED BATHYMETRY

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Crowdsourced Bathymetry within IHO has matured and is looking ways to foster and facilitate contributions from data providers.

IRCC tasked the CSBWG to organize an online IRCC workshop on the benefit of Crowdsourced Bathymetry and how to expand data contribution.

This workshop *was held (after deadline for this report)* 26 April 2024 at IHO Secretariat – Monaco as a hybrid event.



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# IRCC REPORT – IHO FUND GENERATION PROJECT TEAM

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The 3rd Session of the Assembly (A- 3 Decision 20) approved the proposal to establish an ad hoc Project Team under IRCC to explore the possible establishment of reliable alternative funding for activities including capacity building and GEBCO. Additionally, the Council endorsed the principle that additional funding resources (Decision A3/20 and IRCC15 Decision 41 refer) should be considered for setting up a sustainable technical and administrative infrastructure around S-100 including standards development to meet the S-100 timeline.



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# IRCC REPORT – IHO FUND GENERATION PROJECT TEAM

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- PT has started work, 8 members (see IHO CL 16/2024)
- First virtual meeting in April
  - Chair Tom Richardsen (UK), Vice-Chair Christina Fandel (US)
  - Secretary Hendrik Stang (DK)
  - Members Magnus Wallhagen (SE), Adeline Souf (FR), Thandi McAllister (Guyana), Rebecca Cusack (AU), James Harper (IC-ENC)
  - IHO Secretariat represented by Director Sinapi, AD Manteigas and AD Harper
- IRCC will report at C-8 on the progress and provide a final report at C-9



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## IRCC Workshops

IRCC defined two new workshops for the intersessional period:

1. Workshop on IBSC submissions
2. Workshop on the benefits and the extension of contributions to CSB

The organization is on the respective subordinate bodies in liaison with IHO Secretariat.

The workshops will be open online events.





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# **ACTIONS REQUESTED FROM HSSC**

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The HSSC is invited to :

1. Note the report
2. Consider the proposals by WENDWG (if any)