

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

Report of the WENDWG



MEETINGS AND NEW LEADERSHIP

International Hydrographic Organization

- WENDWG14 20-22 February 2024 Norfolk, VA, USA
 - Mr Jens Schröder-Fürstenberg (BSH, DE) and Mr Jason Scholey (UKHO, UK) new appointed chair and Vice-Chair respectively (effective July 1, 2023)
- Next Meeting 18-20 February 2025 Wollongong, AUS



International Hydrographic Organization

Status of actions from IRCC14 and IRCC15

- IRCC 14/13 WENDWG to provide the template for SPI 1.3.1
- Status: Complete. See RHC related issues, Summary of RHC/HO responses on S-100 readiness status survey
- **IRCC15/6** WENDWG to liaise with HSSC on how to mirror the HSSC ISO Cell on S-101 with the following scope: RHC S-101 production/coordination/distribution in the near future.
- Status: Complete. However, WENDWG noted a lack of resources to implement ISO Cell on RHCs S-101 production.
- The WENDWG agreed on the potential benefits of introducing ISO 9001-like Principles into S-100 Coordination and Production activities.



International Hydrographic Organization

Status of actions from IRCC14 and IRCC15

- IRCC IHO Inclusivity policy
- Status: Complete. In accordance with Art. 3.b of the ToRs, the WENDWG agreed on the principle of in-person plenary meetings at policy level, once a year, with virtual meetings between plenary meetings for addressing specific issues.
- Assembly Decision A3/9.b gender-inclusive language in TOR
- Status: Complete. Current ToR is considering gender-inclusive language. The term Chair and Vice-Chair is used in a neutral gender-free form

No pending actions



International Hydrographic Organization

WEND-100 Principles and Guidelines on the Implementation of the WEND-100 Principles

WEND-100 IGIF Product and Service Matrix

S-100 Coordinator

- WEND-100 Principles are sufficient to meet the objectives.
- Possible extensions of the WEND-100 Implementation guidelines is permanent WENDWG meeting agenda item.
- Amendment to the WEND-100 Principles and the S-100 Roadmap are under consideration by WENDWG; taking into account the maturity of S-100 products.
- Ad hoc drafting group established for preparing amendments to the Guidelines on the Implementation of the WEND100 Principles and inputs for the revision of the IHO Strategic Plan.



International Hydrographic Organization

WEND-100 Principles and Guidelines on the Implementation of the WEND-100 Principles

WEND-100 IGIF Product and Service Matrix

S-100 Coordinator

- Only 50% of the Regional Hydrographic Commissions (including HCA) responded with a total score of 45.85.
- IGIF Matrix considered important for HOs having no S-100 services scheduled yet.
- 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.
- Future annual completion of the WEND100-IGIF matrix by RHCs optional only.



International Hydrographic Organization

WEND-100 Principles and Guidelines on the Implementation of the WEND-100 Principles

WEND-100 IGIF Product and Service Matrix

S-100 Coordinator

- The WENDWG noted a lack of S-100 Coordinators in several Regional Hydrographic Commissions.
- The S-100 Coordinator role goes far beyond the traditional Charting Region Coordinator (Region X ICCWG in general).
- The IHO Secretariat took the initiative of collecting the information available with regard to S-100 coordination in the RHCs.



International Hydrographic Organization

WEND-100 Principles and Guidelines on the Implementation of the WEND-100 Principles

WEND-100 IGIF Product and Service Matrix

S-100 Coordinator

- Still no common ground for pursuing a global common grid scheme. Risks coverage issues exist where grids do not align or excessively overlap.
- Task RHC Chart/S-100 Coordinators with reporting their planned S-101 chart schemes for each region, usage bands 1 – 4.
- Task RHCs to consider overlap avoidance in S-101 coverage development.



RHC PARTICIPATION AND RHC RELATED ISSUES

International Hydrographic Organization

- WENDWG is dependent on MS via the RHCs for S-57 and S-100 coordination
 - Has noticed increasing RHC participation and reporting
 - This year WEND received 13 of 15 RHC reports
- Participation should remain high as in the S-100 world coordination is crucial



RHC PARTICIPATION AND RHC RELATED ISSUES

International Hydrographic Organization

The S-100 coordination readiness level in RHCs for meeting 2026-2029 milestones is a follows:

Readiness Level	Very good	Good	Intermediate	Low
RHC	USCHC (incl. S-411, S-412) BSHC	EAtHC	SWAtHC MACHC HCA (incl. S-411)	SAIHC MBSHC EAHC SWPHC ARHC NSHC NIOHC

SEPRHC (no information) RSAHC (no information)



International Hydrographic Organization

S-101 production challenges

S-100 Communication Strategy

S-11 - Part C

- 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 time to implement the specs into software.



International Hydrographic Organization

S-101 production challenges

S-100 Communication Strategy

S-11 - Part C

- 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.



International Hydrographic Organization

S-101 production challenges

S-100 Communication Strategy

S-11 - Part C

- WENDWG seeks appointment by IRCC to develop 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 (other than S-101 ENCs)"
- The WENDWG established an ad hoc S-11 Part C drafting team to develop a proposed Edition 1.0.0 of S-11 Part C
- Submission planned for approval of IRCC in 2025 for testing and experimentation in accordance with IHO Resolution 2/2007).



PROBLEMS ENCOUNTERED

International Hydrographic Organization

Existing ENC coverage overlaps

Accessibility of material on the IHO e-learning platform

- Some critical overlaps at UB5 (Harbour) exist in the Region H, not solved for several years. This circumstance will be not accepted at all when moving to the S-101 ENC world. (The meeting noted objections raised by Türkiye on this statement and on the application of the measures planned in IHO Resolution 1/2018 to eliminate overlaps.
- Some overlaps at UB2 exist in the Region I, not solved for several years. This circumstance will be not accepted at all when moving to the S-101 ENC world.



PROBLEMS ENCOUNTERED

International Hydrographic Organization

Existing ENC coverage overlaps

Accessibility of material on the IHO e-learning platform

 The RENCs provided links to their learning platforms to IHO. The IHO e-learning centre should consider providing those links on their website.



IHO OTHER ITEMS TO NOTE

International Hydrographic Organization

HSSC16 Submissions

Communication strategy

Revision of S-100 roadmap

IHO Reports to IMO

- Challenges in ensuring a harmonised approach in S-1xx product data
- S-124 Data Dissemination issues related to enavigation



OTHER ITEMS TO NOTE

International Hydrographic Organization

HSSC16 Submissions

Communication strategy

Revision of S-100 roadmap

IHO Reports to IMO

 WENDWG identified a need to consider the development of a communication strategy towards end-users, manufacturers, IMO, addressing readiness and expected geographic coverage of S-100 based products and data services in the following years, from 2026 onward.



OTHER ITEMS TO NOTE

International Hydrographic Organization

HSSC16 Submissions

Communication strategy

Revision of S-100 roadmap

IHO Reports to IMO

 IHO Committees should be engaged into the development of a new distribution model, including cybersecurity and integrity measures and ensuring that end-users can easily access and get all S-100 Phase I products and ENDS in confidence along a given route.



OTHER ITEMS TO NOTE

International Hydrographic Organization

HSSC16 Submissions

Communication strategy

Revision of S-100 roadmap

IHO Reports to IMO

- IHO Report to IMO should report from 2026 onwards the global coverage with S-101 data
- Determination of thresholds at which S-101 coverage the sunset of S-57 causes no safety risk for navigation.



International Hydrographic Organization

NECESSARY

IMPORTANT

- Note the 2023-24 accomplishments of the WENDWG
- Recommend the RHCs to develop their schedule to meet the 2026 IMO target (S-100 ECDIS) and share their own roadmap at the next WENDWG and IRCC meeting. (support preparation of the next IHO Strategic Plan (2027-2032)
- Urge NIOHC and SAIHC to address the overlaps and to resolve them as a top priority issue.
- Recommend RHCs to consider more carefully the possibility of developing a capabilities-based approach at regional level; noting the complexity of the S-100 eco-system.
- Task the WENDWG to a) develop further the S-11 Part C table of content, and b) continuation of drafting work; targeting completion by IRCC17



International Hydrographic Organization

NECESSARY

IMPORTANT

- Task the WENDWG to propose a draft guidance on future assessment of S-57 sunset determination at IRCC-17
- Recommend the MS authorize the provision of their ENC metadata (such as CATZOC values) through the RENCs, to the IHO Secretariat for the automated calculation of future SPIs.
- Provide guidance on engagement level in communication strategy towards end-users, manufacturers, IMO, addressing readiness and expected geographic coverage of S-100 based products and data services
- Recommend that the CBSC directs CB activities to bolster and improve S-100 capabilities in MS to ensure that IHO does not fail in its S-100 commitments to IMO.



International Hydrographic Organization

NECESSARY

IMPORTANT

- Recommend the harmonization of assessment procedures in the future, preferably in liaison with the RENCs, to limit the number of annual surveys to IHO MS.
- Recommend CBSC to provide links into the IHO e-Learning Centre webpage to get access to the offers made by the RENCs
- Recommend RHCs to update the list of List of Charting Coordinators to S-100 under publication S-11 Part B "as is
- Note the work initiated on expanding "Guidelines on the Implementation of the WEND100 Principles" and the revision of the IHO Strategic Plan"



International Hydrographic Organization

NECESSARY

IMPORTANT

- Initiate the revision of the S-100 roadmap and consider in parallel the communication strategy for highlighting the importance to not solely focus on S-101 coverage.
- Note the submission paper from the WENDWG to HSSC on the complexity of regulatory framework in providing ENDS by radio signal and possible impacts on service establishment.

