

Paper for Consideration by IRCC

Report of the Worldwide ENC Database Working Group

Submitted by:	Chair, WENDWG
Executive Summary:	
Related Documents:	
Related Projects:	None

Meetings Held During Reporting Period

WENDWG-11 – VTC, 17-18 February 2021

WENDWG-12 – Planned for 22-24 February 2022 in the USA

The following topics were discussed during the WENDWG-11 VTC meeting.

WEND-100 Principles

1. Following the endorsement by A-2, the WENDWG reached consensus on the proposed IHO Resolution on the WEND-100 Principles together with the commitment that WENDWG must develop basic technical Guidelines as matter of priority to address the establishment of S-101 ENC Schemes, during the transition phase until the full retirement of the earlier S-57 ENC, and beyond (see Section xx below).
2. The proposed Resolution is provided as **Annex A** to this report.

S-101 Scheming Guidelines

3. In order to help ensure a cost effective and efficient transition from S-57 to S-101, the WENDWG has established an ad hoc drafting team to conduct a feasibility and impact study of how to best conduct the transition. Recommendations on the use and potential impacts of new grid-based schemes versus keeping the existing S-57 schemes will be considered before production begins in earnest. The team aims to work with the RENCs to provide basic guidelines for consideration by the RHCs (and their Charting Regions) on the establishment of S-101 ENC Schemes. Japan agreed to lead the S-101 Scheming Guidelines Drafting Team.
4. Next Milestones (*to be confirmed*): Draft S-101 Scheming Guidelines, by end of December 2021, endorsement at WENDWG-12, then IRCC-13.

S-1xx Implementation Guidelines

5. The WENDWG established an ad hoc team to work on the implementation guidelines for S-1xx (including S-102, 104, 111, 128 and 129). The team will develop implementation guidelines for the application of the base WEND-100 Principles to S-1xx products that are nearly ready for implementation. These implementation guidelines aim to complement the WEND-100 Principles. It is expected that they become available before the final approval of the WEND-100 Principles by the Member States. The Netherlands agreed to lead the S-1xx Implementation Guidelines Drafting Team.
6. Next Milestones (*to be confirmed*): Draft Guidelines by end of December 2021, endorsement at WENDWG-12, then IRCC-13.

HD ENC Survey

7. Following Action IRCC1/04 and discussion at WENDWG-11, the WENDWG has developed a questionnaire intended for chart producers to express their plans concerning HD ENCs. The WENDWG Secretary has been working to collect questions from WENDWG Member States to include in the survey. The Working Group noted that the impending release of S-102 data from hydrographic offices makes it increasingly important to understand global plans regarding HD ENCs.

8. The proposed Questionnaire is provided as **Annex B** to this report.

INToGIS Development

9. The WENDWG commended KHOA and other contributors on the work done to date on the development of INToGIS II. The group also agreed on the proposed way forward on the development of INToGIS III which will use S-128, as much as is practical, to allow hydrographic offices and other users to visualize S-1xx products and services coverage in the future. The WENDWG thanks KHOA and looks forward to an updated report at the next meeting.

ENC Regional Chart Coordinator Reports

10. The WENDWG noted ENC Regional Chart Coordinator reports from the SAIHC and ARHC. Both reports presented challenges and solutions, including overlapping cells and implementing grid-based schemes.

Roadmap for the S-100 Implementation Decade

Following discussions held at C-4, the WENDWG suggests some amendments to the version 1.0 of the Roadmap approved by A-2. They are proposed to IRCC in Doc. IRCC13-07D2 for further discussion.

Programme of Work

11. The proposed WENDWG Work Programme 2021-22 is provided in **Annex C** to this report.

Actions Required of IRCC

- a. endorse the proposed IHO Resolution on WEND-100 in **Annex A** for submission to C-5 for endorsement (but IRCC can also decide to submit directly to the approval of the IHO MS as the changes made by WENDWG11, since endorsement by A2, are editorial only.
- b. approve the way forward for survey and questionnaire on HD ENC's proposed in **Annex B** and invite the IHO Secretariat to launch it.
- c. endorse the recommendations made in Doc. **IRCC13-7D2** to be submitted to C-5 for approval, aiming to amend the Roadmap for the S-100 Implementation Decade.
- d. approve the proposed WENDWG Work Programme 2021-22 given in **Annex C** in general, and the 2 work items related to S-101 ENC Scheming Guidelines and S-xx Implementation Guidelines in particular.

