

## 35<sup>th</sup> North Sea Hydrographic Commission Meeting

### Report of the Worldwide ENC Database Working Group (WENDWG)

<b>Submitted</b>	Helen Wojcik, NSHC WENDWG
<b>Related Documents:</b>	Final minutes of IRCC-13 and 5th IHO Council Actions and Decisions

<b>Chair:</b>	John NYBERG, USA
<b>Vice-</b>	Annika KINDEBERG, SWEDEN
<b>Secretary</b>	Yves GUILLAM, IHO SECRETARIAT
<b>Member States, RHCs and RENCs:</b>	<a href="#">Membership</a>

*WENDWG is a subsidiary working group of the Inter Regional Coordination Committee (IRCC). The purpose of the WEND Working Group is to advise IRCC to enable the highest societal value of Member State effort by:*

- 1) *Facilitating a world-wide consistent level of high-quality, updated official S-57 ENC through integrated services that support chart carriage requirements of SOLAS Chapter V, and the requirements of the IMO Performance Standards for ECDIS*
- 2) *Reviewing options, and recommending actions, that expand the value of the Worldwide ENC Database to all marine data users applying data management principles and*
- 3) *Supporting the S-100 based products implementation strategy.*

#### **Meetings Held During Reporting Period**

1. WENDWG12, IHO Monaco/VTC Meeting, 22-24 February 2022

#### **Programme of Work**

2. The following key issues were discussed and are summarised in more detail further within this report:

- HD ENCs
- S-101 ENC Scheming Guidelines
- S-1xx Implementation Guidelines
- Review of important matters raised by ENC Charting Regions Coordinators
- Catalogues and INTtoGIS
- RENC Harmonization and ENC Distribution
- Roadmap on the S-100 Implementation Decade

#### **1. HD ENCs**

The WENDWG noted the outcome of the survey on HD ENCs and the possible impact of the development of S-102. UK and Australia provided a paper for solving the Safety Contour Problem in ECDIS with HD ENCs. WEND will be putting forward recommendations to IRCC acknowledging the important user needs for improved safety contour usability and inviting all member states to consider

doing this before S-100 ECDIS becomes widely available alongside S-102.

## **2. S-101 ENC Scheming Guidelines**

The drafting group led by Japan were commended for their work. The report was noted, and the meeting agreed the way forward was to proceed under option 2 (maintain status quo, and reconsider at WENDWG-13 based on RHCs' reports). Recommendation from WENDWG to IRCC to task RHC Reps to share their agreed strategy at regional level on S-101 ENC Scheming/Production (not excluding other S-1xx products).

There were discussions about the possible long-term strategy for a Global Common Grid Scheme (which still needs to be considered).

WENDWG Chair to share status update at IRCC-14 on the main outcome of the drafting group, key issues identified, and work still to be done. The drafting group will continue for now monitoring and collating case studies. WENDWG Repository to store that information.

## **3. S-1xx Implementation Guidelines**

The WENDWG commended the drafting group for their outstanding work. The drafting group was headed up by the Netherlands. It was decided at the meeting to focus on the drafting work to SOLAS V, (ECDIS in particular) considering S-102, S-104, and S-111 products in particular. However, as an outcome of the discussion on the typology of use cases categories, it was agreed that consideration should be given by the drafting group to make a distinction in the non-SOLAS use case between navigation use and other use than navigation.

After discussing the decisions points proposed it was agreed more work is necessary to support route monitoring, route planning, regional versus oceanic for S-102, S-104 and S-111, and S-128 options. The drafting group has since the meeting prepared, circulated and agreed a new draft of the Guidelines based on discussions to be included in the report to IRCC-14.

## **4. Dual Fuel Concept**

WENDWG commended the S-100WG Chair and her development team and noted the presentation on the Dual Fuel Concept that will be submitted for endorsement at HSSC [and IRCC]. Members were invited to feedback comments S-100WG Chair on the Dual Fuel Document.

It was agreed that WENDWG Chair and S-100WG Chair to consider making a proposal for an amendment to the Roadmap v2.0 to the relevant Committee(s) (IRCC or HSSC). With regard to how additional S-1XX layers interact for safe navigations, layers need to be categorised appropriately. to the relevant Committee(s) (IRCC or HSSC).

## **5. Review of important matters raised by ENC Charting Regions Coordinators**

Six RHCs provided updates on developments with scheming in their regions.

A proposal is to be submitted from WENDWG to IRCC-14 asking RHCs to consider the role of an S-100 Services Coordinator in their future (possible expansion of the role of Chart Co-ordinators/WENDWG Reps, or establishment of a new function) and if an amendment is needed to S-11 Part A.

**RHCs Reps in WENDWG to report at the next meeting.**

## **6. S-128 and INTToGISIII**

The group endorsed the strategy and way forward proposed by KHOA for the subsequent development of INTToGIS III. To include Catalogue of S-1xx products/services which is S-128 compliant as presented at the meeting. KHOA and the RENCs were commended for their reports and there was considerable interest in maintaining insight into this work. KHOA and the RENCs are invited to provide an update at the next WENDWG.

The INTToGIS III project is to be included in the report to IRCC14 and will recommend that it should be reflected in the Roadmap of the S-100 Implementation Decade.

## **7. INTToGIS II Updates**

### **Traffic Density**

The US (NGA) gave an update on the World Port Index database and maintenance procedure and invited them to consider the possibilities offered by the development of S-131 as a possible way forward in the future. NGA will provide a status report to the Secretariat on the worldwide coverage traffic density layer information note, before it can be officially commissioned in INTToGIS II.

### **Port Index Database**

The meeting was updated on the progress the US (NGA) have made with the Port /index Database, NGA

and KHOA are going to liaise for a seamless maintenance of a version-controlled database of the Port Index layer in INTOGIS II.

#### 8. RENC Harmonization and ENC Distribution

Updates on activities within the RENCs were given and well received, it was clear that there is significant development work underway in both IC-ENC and PRIMAR with new S-100 operational services (including S-57 to S-101 conversion support services and other S-100 training initiatives). PRIMAR will provide an update at the next WENDWG on the SECOM e-Nav Project.

There was an update provided by the RENCs/RECC of the Data Flow Diagram (available on WENDWG > Repository webpage).

#### 9. CATZOC

For the automated implementation of some SPIs, for maintaining the CATZOC layer in INTOGIS II, WENDWG Chair as part of the report to IRCC-14 request that Member States re-consider their position on providing CATZOC layers and to allow the distribution of their CATZOC data to the Secretariat.

#### 10. Roadmap on the S-100 Implementation Decade

WENDWG report to IRCC-14 will recommend that RHCs include a standing agenda item in their forthcoming Conferences/Meetings, by which they engage in the development of a regional organizational pathway (UN-GGIM compliant - Integrated Geospatial Information Framework (IGIF): <https://ggim.un.org/IGIF/>) for every S-1xx top priority products.

It was acknowledged and agreed that the combined effort (nomination of S-100 Coordinator by RHCs + development of IGIF / per RHCs / per S-1-xx Product) is an important way forward in support of the Roadmap. RHC WENDWG Reps will be asked to report back the regional approach and information to WENDWG 13 based upon an IGIF template.

11. **5th Council Meeting** were presented with the report from IRCC and decision to endorse the recommendations made on amendment of the Roadmap for the S-100 Implementation Decade (Annex A) and requested Council's approval. Council was therefore requested to take note of the adoption of the WEND-100 principles (IHO C 37/2021).

The Secretary-General observed that WEND-100 had required detailed discussions needed to resolve how WEND-100 worked in combination with SOLAS requirements. IHO had proved to be pragmatic in its support of developing countries in assisting them to comply with their SOLAS arrangements. It could be expected that in future, regional solutions would need to play a larger role.

Decision C5/21: The Council endorsed the amendment to the S-100 Implementation Roadmap as proposed by the WENDWG and contained in Annex A of the IRCC report.

#### 3. The NSHC is invited to:

- a. **Commend** Member States work towards reducing overlaps by applying the WEND Principles in defining approved ENC schemes.
- b. **Note** the recommendation being submitted to IRCC for RHCs to develop regional organizational pathway for S-1XX priority products.
- c. **Note** the recommendation being submitted to IRCC for RHCs to consider the role of an S-100 Services Coordinator.
- d. **Note** the IHO Council Decision to further update the S-100 Implementation Roadmap.