

# WENDWG Report to the BSHC 24<sup>th</sup> Conference

by Jarmo Mäkinen, BSHC WENDWG representative

*The purpose of the WEND Working Group is to advise IRCC to enable the highest societal value of Member State effort by:*

- *Facilitating a world-wide consistent level of high-quality, updated official ENC's through integrated services that support chart carriage requirements of SOLAS Chapter V, and the requirements of the IMO Performance Standards for ECDIS*
- *Reviewing options, and recommending actions, that expand the value of the Worldwide ENC Database to all marine data users applying data management principles.*

## 1. Status of the work of WENDWG

The WENDWG is chaired by Capt. Jamie McMichael-Phillips (UK). Vice chair is Mr John Nyberg (US) and Mr Yves Guillam (IHB) is acting as a role of secretary.

**Chair:** Jamie McMICHAEL-PHILLIPS, UK

**Vice-Chair:** John NYBERG, USA

**Secretary:** Yves GUILLAM, IHO Secretariat.

**Members:** Representatives of Regional Hydrographic Commissions, representatives of IHO Member States, RENCs. [Membership list](#)

BSHC has nominated Jarmo Mäkinen (FI) as its representative for the WENDWG.

## 2. Outcome of the WENDWG 9, 26-28 February 2019, Brest, France

The 9<sup>th</sup> meeting of the Worldwide ENC Database Working Group (WENDWG) took place in Brest, France, from 26 to 28 February 2019, in conjunction with the 4<sup>th</sup> joint meeting RENCs, IC-ENC, PRIMAR and, for the first time, the EA-RECC (Regional ENC Coordination Centre) of the East Asia Hydrographic Commission. Twenty-one delegates from 11 Member States (Brazil, China, Finland, France, Italy, Netherlands, Norway, Republic of Korea, Sweden, United Kingdom and United States) representing 13 Regional Hydrographic Commissions (ARHC, BSHC, EAHC, EAtHC, MACHC, MBSHC, NHC, NSHC, RSAHC, SAIHC, SWAtHC, SWPHC and USCHC).

### Key issues discussed in the meeting:

- ❖ ENC Coverage and Overlapping
- ❖ IHO ENC catalogue
- ❖ RENC harmonisation and distribution
- ❖ The Full Implementation of the WEND Principles
- ❖ Impact of New TORs & C2 Actions (Workshop Sessions)
- ❖ Review and Update of the WENDWG Work Programme

### ❖ ENC Coverage and Overlapping

One of the main objectives of the WENDWG is to monitor the ENC coverage (gaps) and follow the efforts made to progress with the elimination of overlapping ENCs.

RHCs are encouraged to make their own risk assessment of navigational risk for ENC overlaps and to act to manage these as required. The one-year "clock" to resolve overlaps should begin once the overlapping issues, starting with the potential highest risk cases, have been reported to ENC producers.

UK provided its annual assessment on global ENC coverage and some statistics on previous years ENC overlaps as well as some indications, on the list of ports that might be not covered yet. It was noted, that the algorithm used by GIS was probably not robust enough as assessment was inaccurate. US informed that the NGA Publication 150, used as the reference database, for the List of Ports in the IHO ENC Coverage Catalogue will be upgraded in 2020. This will improve accuracy of reporting.

RHCs/HOs are invited to report to NGA, if inconsistencies need to be corrected in the List of Ports (based on the NGA P 150).

<u>Current Overlaps</u>		
Cellname	Cellname 1	Usage Band
SE2BHS1S	DK2BORNH	2
DK2BORNH	DE216000	2
PL2MP500	DE216000	2
SE2BHS1S	LV211253	2
PL3B3000	DE316004	3
RU3NCJP9	PL3K0030	3
PL3MP153	DK3BORNH	3
SE3CHWHS	PL3MP153	3
RU3NSKI9	EE3D0403	3
RU3NCJP9	LT382001	3
RU3NCJP9	PL3MP151	3
RU401KN9	FI4EIJV2	4
DK4GSMON	DE416072	4
DK4LGLGS	DE416050	4
RU4NDJS8	PL4MAP41	4
RU4O0KM9	FI4EIJV2	4
SE5IHZTE	DK5HLSNS	5

<u>Ports Not Covered (from IHO Ports Gazetter)</u>		
Port Name	Country	Port Size
PORI	FI	L
NORRKOPING	SE	M
BOLSHAYA PIRYU GUBA	RU	S
HIMANKA	FI	S

Fig 2. Global ENC Coverage- Baltic Sea (UK report to WENDWG9).

RHC	"Live Overlaps" - Overall Severity of Risk				TOTAL
	LOW	MEDIUM	HIGH	UNASSESSED	
ARHC/EAHC	3				3
BSHC	6				6
EAHC	46	34			80
EAtHC	2				2
HCA	1				1
MACHC	1				1
MBSHC	80	24			104
NIOHC	3	1			4
NSHC	14				14
RSAHC	5	17			22
SAIHC	1	2			3
USHC	3				3
RSAHC/NIOHC	4	1			5
SAIHC/HCA	1				1
SWPHC/HCA	3				3
SWAtHC	3				3
BSHC/NHC	2				2
EAHC/SWPHC	4				4
<b>Total</b>	<b>182</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>261</b>

Fig 3. Number of live overlaps (IC-ENC report to WENDWG9).

#### ❖ IHO ENC Catalogue

The meeting welcomed the finalization of the development of the IHO ENC Catalogue with the support provided by the RENS. Catalogue functionality improvements are now fully operational. An objective is to update content on a weekly basis.

The Meeting invited RENCs to clarify their policy in force for the provision of CATZOC values to the IHO Secretariat, CATZOC values that are to be used within INTOGIS II. The RENCs confirmed that they maintain the list of the ENC Producers who have agreed to provide CATZOC values to the IHO Secretariat.

[Link to the IHO ENC Catalogue](#)

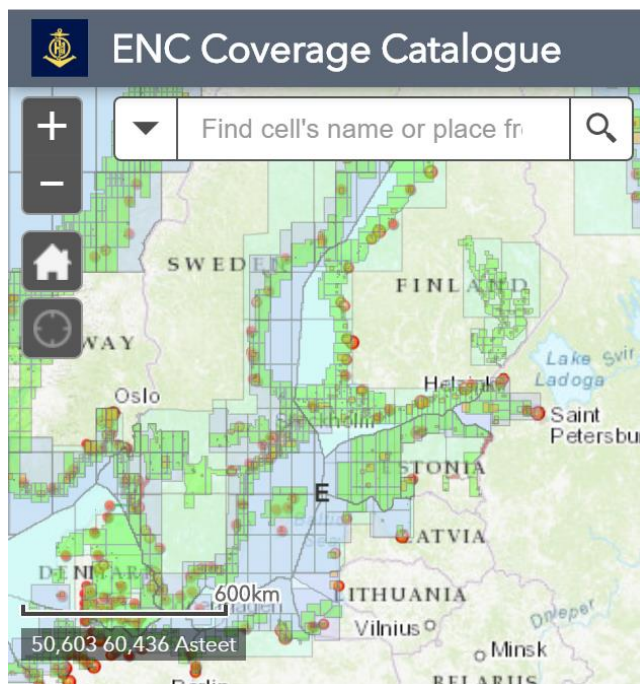


Fig 4. New IHO ENC Catalogue.

#### ❖ RENC Harmonisation and Distribution

PRIMAR reported on its activities since the last meeting and highlighted important promising developments and projects such as: S-57 data distribution service, S-102 pilot project, S-101 upload etc. These information were considered as a very useful contribution in support of the future S-100 Implementation Strategy.

IC-ENC presented its achievements and its good results for 2018, including significant training components.

The RENCs provided a useful annual update of the ENC Flow Diagram [Link](#). The new RENC, EAHC Regional ENC Coordination Centre (EA-RECC) is continuing to develop and work is underway to build a membership.

Once again, it was seen very essential, that all produced ENC data (including exclusive data) must be made available to every RENC.

#### ❖ **The Full Implementation of the WEND Principles**

All the RHCs (NIOHC excepted), provided a status report of their ENC coverage, availability and overlaps in their region. Some representatives of the RHCs reported on the progress made on the implementation of ENC schemes in their charting region. The situation still varies significantly from one region to another. Most of the RHCs have a pragmatic approach to address this issue.

[Link to BSHC status report to WENDWG9](#)

Following much support from KHOA, INTToGIS Phase II experimentation has completed. The expecting date for the commissioning of INTToGIS II is postponed to August-September 2019. Phase II will include ENC Schemes that consider actual cell coverage and will be a timesaving application that can assist Chart Coordinators in establishing/improving their own regional ENC schemes. AIS density will also be included within INTToGIS.

The WENDWG agreed to use the existing IHO ENC coverage catalogue as the initial mechanism to easily build version 1.0 of the ENC Schemes database in the INTToGIS II. As soon as INTToGIS II is commissioned, RHCs should define and adopt ENC Schemes (as it is done for INT Charts Schemes) and submit their update.

#### ❖ **Impact of New TORs & C2 Actions (Workshop Sessions)**

One of the objectives of the 1st workshop session was to assess the impact of the new WENDWG TORs, as decided at IRCC-10, on the WENDWG tasks and work items. Different actions had been anticipated at WENDWG-8 in support of the expansion of the scope of work of the WENDWG (development of a licence management service for non-SOLAS class vessels, support of Seabed 2030), so the meeting agreed that these work items needed to be retained in the work programme.

IHO Council actions C2/30 and C2/31 were in relation to development of the new S-100-Implementation Strategy [Link](#) The WENDWG agreed to report at IRCC that the development of WEND a like Principles in support the implementation strategy for S-100 based products was deemed necessary. An ad hoc drafting group agreed to prepare a consolidated version of WEND-like Principles to be provided in attachment of a submission paper to IRCC. These so-called WENS (Worldwide Electronic Navigational Services) were positively received by WENDWG.

Link to IRCC 11 paper [IRCC11-07D3 WENS Principles](#)

#### ❖ **WENDWG Work Programme**

WENDWG Programme of Work for 2019-20 was agreed and the work items updated in accordance with the actions raised during the meeting. - Decision was made to recommend to the IRCC that the WENDWG continues its activities.

[Link to WorkPlan2019-20.](#)

### **3. Next meeting**

Next meeting (WENDWG-10) back to back with the 5<sup>th</sup> Joint RENC-IHO Sec. meeting, from 18-20 February 2020 in Hong Kong, China.

### **4. Actions for the BSHC 24<sup>th</sup> Conference**

- note on this report
- give further guidance to BSHC WENDWG representative.