IHO ENC Maintenance Working Group

Report of the Nautical Cartography WG

Mikko Hovi, Chair NCWG

Main Tasks

- Maintain and extend S-4
- Develop new and revised symbology
- Maintain INT1, INT2, INT3
- Maintain and extend S-11 Part A
- Provide technical assistance to other IHO working groups and support regarding the implementation of S-100 Product Specifications

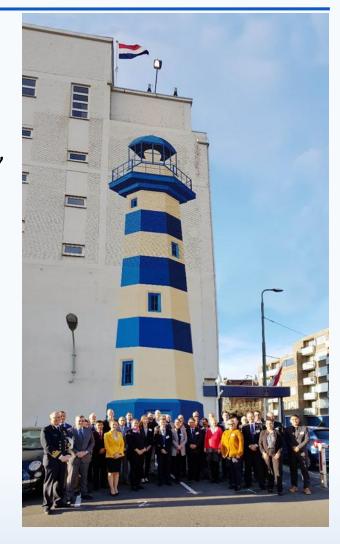
Membership and Meetings

Membership

- 29 Member States
 - AR, AU, BR, CA, DK, EE, FI, FR, DE, GR, IN, ID, IR, IT, JP, KR, LV, NL, NZ, NO, PK, RU, ZA, SP, SE, TR, UA, UK, US
- 3 Expert Contributor Organizations ESRI, C-MAP, ICA

Meetings

- NCWG4, 6 9 November 2018, The Hague, NL
- Next meeting NCWG5, 5 8 November 2019, Stockholm, SE



S-4

- Edition 4.8.0 published, October 2018
 - Available in English, French and Spanish
 - Revised clauses include
 - Extended use of 'yacht' symbol
 - New islet symbol
 - Magnetic variation
 - Planes of reference
 - Deleted clause
 - LORAN

S-4(2)

- Clarifications include clauses on
 - Colour of floodlighting
 - Anchor berths
 - Limits of larger scale (ENC) chart
 - Compass roses
- Identified impacts on ENC
 - Possibility to indicate colour of the floodlighting is missing in S-57 and S-101
 - Clarified clause in S-4 says
 - **B-478.2 Floodlighting** of a structure [...], should be indicated by the symbol **P63**. The symbol must normally be in magenta <u>or may be in an appropriate</u> colour on 'multicoloured' charts where the colour is known and constant.

S101PT is requested:

Discuss and agree on how to encode colour of floodlighting in S-101

Topics discussed at NCWG4

Topics considered included

- Submarine cables (ICPC) (will effect DCEG 14.2.1)
- Satellite derived bathymetry
- Ballast water management areas
- Offshore solar parks (see S101PT4-5.1)
- Portrayal of pilot boarding areas on ECDIS
- Minimum size of isolated shoals
- Fixed-and-flashing light characters (will likely effect attribute 'light characteristic')
- INT1 Section V Data Quality
- Study on regional ENC scheming, case Caribbean Sea
- Marine incidents alarm fatigue
- Distinction between foul ground and obstruction

Topics discussed at NCWG4 (2)

Topics considered included

- Seagrass in ENC
 - S-4 ed 4.7.0 made a clear distinction between seagrass (plants) and seaweed/kelp (algae)
 - S-101 Feature class Weed/kelp is used
 - S-101 Attribute category of weed/kelp (CATWED) supports this distinction
 - DCEG 12.2 lacks missing a reference to new INT1 symbol J13.3 Seagrass
 - DCEG 12.2.1 does not mention seagrass at all
- Marine incidents alarm fatigue
 - Grounding of the "Muros" on its way from Teesport, UK to Rochfort, France
 - Check route function resulted to more than 3000 warnings

S101PT is requested:

 Consider amending DCEG 12.2 to cover seagrass separately from weed and kelp

 Discuss means to reduce false alarms on ECDIS through improved encoding practices

S-4 supplementary publications INT 1, 2 & 3

- INT1
 - English version (DE), Edition 9, October 2018
 - French version (FR), Edition 6, April 2016
 - Spanish version (ES), Edition 6, April 2018
 - New Section V on data quality under consideration
 - Included now in UK NP5011
- INT2, Edition 4, 2007 (NL)
- INT3, Edition 5, 2011 (UK)

S-11 Part A

Current edition 3.1.0 (February 2018)

- Possible future tasks include revising Section 200 'Guidance for the Preparation and Maintenance of ENC Schemes' to cover also S-101 ENCs
 - Current edition talks specifically about S-57 ENC

Other topics

- The future of the paper chart
 - Preliminary report delivered to HSSC11
 - MS Survey conducted in the upcoming months
 - Final report to be delivered for HSSC12 (May 2020)
- Missing S-101 symbols
 - Task to draft symbols for S-101 features that do not inherit one from S-57/S-52

Actions requested of S101PT

- ENCWG is invited to
 - **Note** this report
 - **Discuss and agree** on how to encode colour of floodlighting in S-101
 - Consider amending DCEG 12.2 to cover seagrass separately from weed and kelp
 - **Discuss** means to reduce false alarms on ECDIS through improved encoding practices