#### **IHO ENC Maintenance Working Group**

### Report of the Nautical Cartography WG

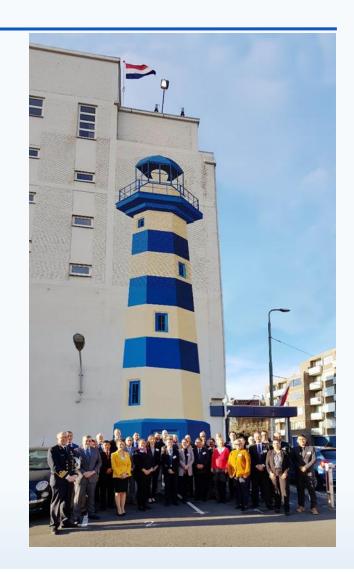
Mikko Hovi, Chair NCWG

### 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
  - 3 Expert Contributor Organizations
- 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.

# ENCWG is requested:

Discuss and agree on how to encode colour of floodlighting in S-57

### Topics discussed at NCWG4

#### Topics considered included

- Submarine cables (ICPC)
- Satellite derived bathymetry
- Ballast water management areas
- Offshore solar parks
- Portrayal of pilot boarding areas on ECDIS
- Minimum size of isolated shoals
- Fixed-and-flashing light characters
- 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-57 CATWED supports this distinction
  - S-52 portrays all WEDKLP with the same symbol
    - → distinction lost
- 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

## ENCWG is requested:

 Consider adding a distinct symbol for WEDKLP CATWED=3 (Seagrass) in next edition of S-52 PresLib

• 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)

### Actions requested of ENCWG

- ENCWG is invited to
  - **Note** this report
  - Discuss and agree on how to encode colour of floodlighting in S-57
  - Consider adding a distinct symbol for WEDKLP CATWED=3 (Seagrass) in next edition of S-52 PresLib
  - **Discuss** means to reduce false alarms on ECDIS through improved encoding practices