INTERNATIONAL HYDROGRAPHIC ORGANIZATION

ORGANISATION HYDROGRAPHIQUE INTERNATIONALE

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CIRCULAR LETTER 47/2018
03 October 2018

ADOPTION OF EDITION 6.1.0 OF IHO PUBLICATION S-58
ENC VALIDATION CHECKS

Reference:

A CL 38/2018 dated 28 June - *Approval of Edition 6.1.0 of IHO Publication S-58 – ENC Validation Checks.*

Dear Hydrographer,

1. Reference A proposed the adoption of Edition 6.1.0 of IHO Publication S-58 – *ENC Validation Checks* – and the proposed entry into force of the new edition twelve months after its adoption by IHO Member States, as recommended by the IHO ENC Maintenance Working Group (ENCWG); and endorsed by the IHO Hydrographic Services and Standards Committee (HSSC).

2. The Secretariat of the IHO thanks the 54 Member States that replied to Reference A: Argentina, Australia, Bangladesh, Belgium, Brazil, Canada, Chile, Colombia, Croatia, Cuba, Cyprus, Denmark, Egypt, Finland, France, Germany, Greece, Guatemala, Iceland, India, Indonesia, IR of Iran, Ireland, Italy, Japan, Latvia, Malaysia, Malta, Mauritius, Monaco, Morocco, Mozambique, Netherlands, Nigeria, Oman, Papua New Guinea, Peru, Poland, Portugal, Qatar, Republic of Korea, Russian Federation, Saudi Arabia, Singapore, Slovenia, South Africa, Spain, Sweden, Thailand, Tunisia, Turkey, Ukraine, United Kingdom and United States of America.

3. All 54 Member States supported the adoption of Edition 6.1.0 of S-58. Three Member States offered editorial comments in addition to their vote. These comments and the outcome of their review by the Chair of the ENCWG are provided in Annex A to this Circular Letter.

4. When the Reference was issued there were 89 Member States of the IHO with three States suspended. In accordance with the provisions of the Convention on the IHO as amended, the minimum number of affirmative votes required was 28. As a result, and taking into account the editorial corrections reported in Annex A, the proposed Edition 6.1.0 of S-58 has been adopted. Edition 6.1.0 of S-58 will enter into force on **01 September 2019**, at which time Edition 5.0.0 will be retired.

5. Edition 6.1.0 *(English version only)* is available on the IHO website at: www.iho.int → Standards & Publications → S-58.

On behalf of the Secretary-General

Yours sincerely,

Abri KAMPFER
Director

Annex A: Member State's responses to IHO CL 38/2018 and comments from the Chair of the ENCWG.

Copy: Chair, ENCWG

MEMBER STATES' RESPONSES TO IHO CL 38/2018 AND COMMENTS FROM THE CHAIR OF THE ENC WORKING GROUP (ENCWG)

APPROVAL OF EDITION 6.1.0 OF IHO PUBLICATION S-58 ENC VALIDATION CHECKS

DENMARK

Our approval of the adoption of edition 6.1 is subject to the following change (in red) being made to check 1637:

1637	For each PYLONS feature object of geometric primitive area where WATLEV is Equal to 1 (partly submerged at high water) OR 2 (always dry) OR 6 (subject to inundation or flooding) which is not COVERED_BY a LNDARE feature object of geometric primitive area.	PYLONS object with WATLEV = 1, 2 or 6 not covered by a LNDARE object.	Ensure PYLONS object is covered by a LNDARE object.	4.8.18	E

Comment from the Chair of the ENCWG:

The ENCWG Chair thanks Denmark for its observation. The final published S-58 Edition 6.1.0 will include this amendment as investigation has determined that, as PYLONS of geometric primitive point is part of ECDIS Base display, there is no requirement for these to be covered by LNDARE.

INDIA

3.1 Checks related to S57 Data Structure:

1 – Overlap is obvious with RECTRC and NAVLNE, hence excluded from Error List and shown as warning.

53b – SLOTOP may not be always within LNDARE for example 'embankment' lies within intertidal area. Hence suggested to exclude from the Error list and shown as warning.

3.4 Checks related to UoC:

1795a & 1795b – Temporal attributes like DATSTA/PERSTA and DATEND / PEREND are not required to be assigned to the Master object viz, LNDMRK where the periodic light is a slave. Hence this may be treated as warning rather a Critical Error.

1800 – Allow value 'NULL' for the object BRIDGE where the attribute VERCLR is not known.

Comments from the Chair of the ENCWG:

The ENCWG Chair thanks India for its comments. Addressing each Check individually:

Check 1: The topology defined for ENC is chain-node topology (S-57 Appendix B.1 – ENC Product Specification, clause 2.3). For chain-node topology, vector objects (such as RECTRC and NAVLNE) should share geometry, and the duplication of coincident linear geometry is prohibited (S-57 Part 2 – Theoretical Data Model, clause 2.2.1.2). For this reason the classification of Check 1 will be retained as Error,

Check 53b: SLOTOP is included in the ECDIS IMO Display Categories "Standard" or "Other" (S-52 Presentation Library, Part1, Annex D), meaning that SLOTOP will not be displayed for certain ECDIS display settings. For an "embankment" that is within the intertidal area, consideration should be given

to encoding such a feature using the S-57 Object Class SLCONS, attribute CATSLC = 1 (breakwater), 2 (groyne), 7 (training wall), 8 (rip rap) or 10 (sea wall); as SLCONS is part of ECDIS Base display.

Checks 1795a and 1795b: These checks only apply where the temporal attributes DATEND, DATSTA, PEREND or PERSTA are notNull for all the objects contained in the Master to Slave relationship. Therefore if the temporal attributes are not populated for the Master object, checks 1795a and 1795b do not apply.

Check 1800: This Check is intended to report a warning for an opening bridge where the non-mandatory attribute VERCLR has been populated with a meaningful value, noting that for opening bridges such clearances should be populated using the mandatory attributes VERCCL and VERCOP (S-57 Appendix B.1 – ENC Product Specification, table 3.2). The fact that the Check has the condition that VERCLR is notNull means that a Null value is allowable (see S-58 clause 1.4.3).

ITALY

IIM approves the adoption of Edition 6.1.0 of S-58, but proposes to modify the tests n. 531 and 1015 as follows:

No	Check description	Check message	Check solution	Conformity to:	Cat
531	If the Dataset file name is not in accordance with the ENC Product Specification.	Dataset file name is not in accordance with the ENC Product Specification.	Amend file names.	5.6.3 ~~**and Appendix B.1, Annex A (2.3)**~~	C
1015	If the text and picture file names are not in accordance with the ENC Product Specification.	Text and picture file names have incorrect format/name.	Use correctly formatted and named text and picture files.	Appendix B.1 (5.6.4) **and Appendix B.1, Annex A (2.3)**	C

Note: Appendix B.1, Annex A (2.3) is not related to dataset file, but is related to text and picture files.

Comment from the Chair of the ENCWG:

The ENCWG Chair thanks Italy for its comment. The final published S-58 Edition 6.1.0 will include these amendment for Check 1015 as proposed. For Check 531, a reference to the S-57 Maintenance Document (MD8), Clarification 1.Cl.37 and Correction 1.Co.32, will be inserted to replace the Appendix B.1, Annex A reference