Hydrographic Services and Standards Committee

Comments by Finland

to the status of S-57, scope of S-58 and

the authority between S-57 and S-58

[HSSC5-05.1Ha]

Clarifications needed

1. **Status of S-57**

   ✦ S-57 is officially *"frozen".* However there are published several Supplements to Use of Object Catalogue, which introduce substantial improvements to use of S-57.

   ✦ IMO Circular Letters related to ECDIS software upgrading up to the latest IHO standard and refer to "Latest IHO standard for ECDIS" on the IHO web pages. This web page refers to S-57 Supplements on footnotes intended only for ENC producers, not for ECDIS manufacturers. So in the manufactures' point of view these supplements do not exist, and not required by IMO.

   ✦ **HSSC is invited to clarify the status of S-57 Supplements.**

Clarifications needed

2. Scope of S-58

✦ The original scope of S-58 was to be as guidance to producers of ENC validation tools when developing their validation software. Now it will come mandatory to HOs. This is a major change of the scope of the S-58 which should be indicated and communicated very clearly.

✦ "*This software must be used by hydrographic offices to help ensure that their ENC data are compliant with the S-57*"

  – To which kind of software the wording *"this software"* refers?

  – In HSSC4-05.1J: there is mentioned *"IHO approved open source validation plugin to be developed"*

  – A more clear wording e.g. *"These tests must be performed by HOs"*

✦ **HSSC to clearly confirm this change of scope of S-58 and allow TSMAD to clarify the introduction of S-58**

Clarifications needed

3. Authority between S-57 and S-58

✦ As an example, there is at least on case where there are inconsistencies between S-57 and S-58. If implemented according to S-57 there will be a "*Critical error.*"

✦ What to do if there is a "*Critical error?*" Prohibit releasing that ENC set? Add a note to that set?

✦ In cases of non-true Critical errors, if HOs or RENCs release these ENCs, this reduces the importance of the tests and confuses the meaning of *Critical errors.*

✦ S-58: *Critical Error* : An error which would make an **ENC unusable** in ECDIS through not loading or causing an **ECDIS to crash** or presenting data upon which is unsafe for navigation.

✦ *Error:* An error which may degrade the quality of the ENC through appearance or usability but which will not pose a significant danger when used to support navigation.

✦ *Warning* : An error which may be duplication or and inconsistency which will not noticeably degrade the usability of an ENC in ECDIS.

Example case – All Weather Terminal

- ✦ S-57 UOC (in S-57 Appendix B.1 Annex A clause 4.6.1 Harbour Installation, the roofed structure may be encoded using a BUISGL object (see clause 4.8.15).

- ✦ On ENC coastline and part of fairway can be seen inside a dark brown building; water colour covered by dark brown, but in practice there is a depth area not land area.

- ✦ While testing this with the proposed e5.0.0 S-58 Test 54a it returns a *Critical Error*.

- ✦ It has been reported also other cases where buildings are above navigable waters

- ✦ **The level of <u>Test54a</u> to be returned back as *"Warning"***

Other reported example cases

Problems or outstanding issues

3. Authority between S-57 and S-58

- **HSSC to specify explicitly that the S-57 has the order of authority over the S-58**

- **HSSC to change back the level of Test 54a to be as *"Warning" [or at least as "Error"]* before final approval of e5.0.0 of S-58.**

Action requested of HSSC

- clarify the status of S-57 and Supplements to S-57

- clearly confirm the change of scope of S-58 and task TSMAD to clarify the introduction of S-58

- specify that S-57 has the order of authority over S-58

- change back the level Test 54a as a "*Warning*" before final approval of e5.0.0 of S-58