

ENCWG1 MEETING

(in conjunction with the S-100WG1 meeting)
Tokyo, Japan 14 - 18 March 2016

Paper for Consideration by ENCWG and S-100WG **Buildings above water encoding in ENC, ECDIS portrayal and logical consistency error in S-58**

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Executive Summary:	This paper outlines the draft edition 4.6.0-Spring 2016 of S-4 B-370.9 about buildings in or over the water for action NCWG1-30 11th CSPCWG-1st NCWG MEETING Rostock, Germany 27-30 April 2015 : “Chair (in consultation with ID) to prepare paper to ENCWG and S-100WG (S-101PT) to review encoding in ENC, ECDIS portrayal and logical consistency error in S-58”.
Related Documents:	11th CSPCWG-1st NCWG final report, CSPCWG11-08.11A Symbolisation of Houses above the Water and S-4 draft edition 4.6.0-Spring 2016 section B-370.9 buildings in or over the water.
Related Projects:	None

Introduction / Background

Many Indonesian villages (houses) are situated along the coastlines, which occupy the intertidal areas. Due to lack of land transportation and to sustain their economic life, people built their houses and villages along the coastline or riverline. They expect their residential place will also support their mobility and economics. Amongst the villages, the construction of the house could be permanent, or they can be floating houses. It has been considered useful for the mariner to have this information when navigating river and waters close to the coastline, especially medium size vessel and barges containing minerals or coal and also local boats.

At present, the standard to draw villages/houses above the water level is not exist, either for paper chart and ENC. However for paper chart symbolization has been submitted and included in S-4 draft edition 4.6.0-Spring 2016 section B-370.9 buildings in or over the water.

Analysis / Discussion

At the Indonesian HO ID-ENC, houses and villages above the waterline could be drawn with some different and combination ways (**Pict.1**) :

- a. As those buildings are beyond the coastline and an extension of urban areas it has been captured as CTNARE within INFORM “houses above water” or any detail TXTDSC.
- b. Encoded as BUISGL above DEPARE.

c. Sometimes are encoded by SLCONS.



Pict.1 houses and villages above the waterline encoded with combination ways

Although those encoding are considered as safety and awareness for the mariners reason (refer to S-57 clause 6.6 of Appendix B.1 Annex A) but it seems to be over-generalized for CTNARE also not realistic and too complex if its encoded by BUISGL and SLCONS. With the new draft of S-4 edition 4.6.0-Spring 2016 section B-370.9 buildings in or over the water has been symbolized by extension of built-up area and covered by black dashed line. The extension of built-up area above the intertidal or shallow water shown as transparent. (**Pict.2**)



Pict.2 Extension of built-up area and covered by black dashed line and transparent above the intertidal or shallow water

As BUAARE most not overlap DEPARE based on S-58 and boundary of extension area need to be drawn as a dashed line (different with coastline), we would welcome for reviewing on how this features are to be encoded in ENC as well as ECDIS portrayal and logical consistency error in S-58.

Conclusions

None.

Recommendations

ENCWG to consider whether “the house above water” which has been included in new draft of S-4 edition 4.6.0-Spring 2016 section B-370.9 need new encoding as well as ECDIS portrayal and logical consistency error in S-58.

Justification and Impacts

None.

Action required of ENCWG

ENCWG is invited to:

- a. Consider adoption of a new encoding on ENC for buildings in or over the water; and
- b. Determine appropriate for ECDIS portrayal and logical consistency error in S-58.