

12th Meeting of the Hydrographic Services and Standards Committee

Report of the DQWG

Agenda Item 5.1



PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

- 1. S-67 Edition 1.0.0 completed and adopted by IHO MS
- 2. Review of S-101 Feature Catalogue against DCEG
- 3. HSSC11/50: development of the conditional visualization *methodology* of quality of bathymetric data
- 4. Consider data quality aspects in an appropriate and harmonized way for all S-100 based spec.



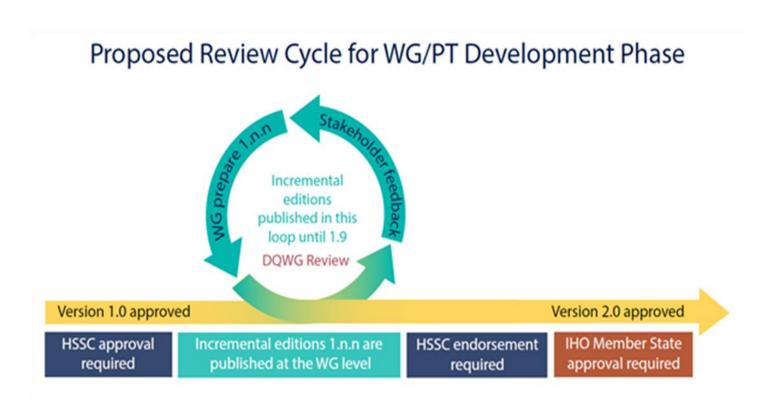
S-67 MARINERS' GUIDE TO ACCURACY OF DEPTH INFORMATION IN ELECTRONIC NAVIGATIONAL CHARTS (ENC)

- Review by correspondence (July-Dec 2019) by DQWG, NCWG and ENCWG.
- Total of 323 comments by 17 organizations.
- Call for approval, CL nº 27, 15 July 2020
- Adoption of Edition 1.0.0 of S-67, CL no 33, 14 Sep 2020
- Spanish translation is requested by Spanish speaking members



REVIEW OF S-101 FC AGAINST DCEG

- Completeness and consistency check.
- Work in progress (correspondence letter 01/2020)
- Final results to be handed over to S-101PT (Nov 2020)





HSSC11/50 CONDITIONAL VISUALIZATION METHODOLOGY OF QUALITY OF BATHYMETRIC DATA

- Concept tested by DK, FI, IN, IT, ID, NO, SE, UK
- Examples demonstrated by IT, FI, NO at DQWG-14 (Feb 2020)
- Demonstrated the potential of data quality indicators for improving safe navigation but also highlighted the complex situations in some coastal areas
- Supports autonomous shipping capability
- Results handed over to S-101PT Portrayal Sub Group
- Paper HSSC12-05.5B and C provide all details



CONSIDER DATA QUALITY ASPECTS IN AN APPROPRIATE AND HARMONIZED WAY FOR ALL S-100 BASED SPEC.

DQWG REFERENCE DOCUMENTS ¹	
S-101 ENC Product Specification, Appendix C, Feature Catalogue Edition 1.0.0, 2019-04-09	Drafted (.pdf) by DQWG as reference document for review process of S-1xx based Product Specifications (September 2020)
National methodologies from survey data to CATZOC value	Australia, Brazil, Finland, France, Italy, Japan, Netherlands, Norway, United Kingdom, USA
Quality of Bathymetric Data – Decision Tree (as designed for S-101)	Document
Data Validation ISO principles	Presentation

¹ www.iho.int > Services and Standards > HSSC > DQWG > Reference Documents



OBSERVATIONS

- 1. Review is done on published draft standards, not on IHO GI registry content
- 2. Is this the correct moment in time to do the review or should it be done at an earlier stage?
- 3. Is the industry developing on the published draft standards?



PROBLEMS OR OUTSTANDING ISSUES

- 1. Expiry date of CATZOC value in area of unstable seabed (category of temporal variation)
- 2. CATZOC (Zone of Confidence) is more intuitive to the mariner than Quality of Bathymetric Data
- 3. Proposals for business continuity during the pandemic
- Work by correspondence
- VTC meeting February 2021

FUTURE WORK PROGRAMME

- 1. Review S-102, S-104, S-111, S-122, S-123, S-129 against S-101 (upto Ed.1.9.9)
- 2. Maintenance of S-67
- 3. Provide guidance on data quality aspects to HOs, in particular to ensure harmonized implementation
- 4. Monitor developments on dynamic data exchange for autonomous functions (ref S-100WG5-04.3)



ACTIONS REQUESTED FROM HSSC

- 1. Approve the review process to close the loop before Ed.2.0.0 of S-1xx Product Spec.
- 2. Approve the completion of task HSSC11/50
- 3. Encourage IHO MS to start populating appropriate POSACC / SOUACC values in existing S-57 ENCs
- 4. Invite IHO MS to share their national methodologies from survey data to CATZOC value