



12th Meeting of the Hydrographic Services and Standards Committee

Report of the DQWG

Agenda Item 5.1

HSSC-12, IHO Secretariat, Monaco + VTC, 19 – 22 October 2020



IHO

PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

International
Hydrographic
Organization

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.



IHO

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

International
Hydrographic
Organization

- Review by correspondence (July-Dec 2019) by DQWG, NCWG and ENCWG.
- Total of 323 comments by 17 organizations.
- Call for approval, CL n° 27, 15 July 2020
- Adoption of Edition 1.0.0 of S-67, CL n° 33, 14 Sep 2020
- Spanish translation is requested by Spanish speaking members



IHO

REVIEW OF S-101 FC AGAINST DCEG

International
Hydrographic
Organization

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

Proposed Review Cycle for WG/PT Development Phase





IHO

HSSC11/50 CONDITIONAL VISUALIZATION METHODOLOGY OF QUALITY OF BATHYMETRIC DATA

International
Hydrographic
Organization

- 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



IHO

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

International
Hydrographic
Organization

DQWG REFERENCE DOCUMENTS¹

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



IHO

OBSERVATIONS

International
Hydrographic
Organization

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?



IHO

PROBLEMS OR OUTSTANDING ISSUES

International
Hydrographic
Organization

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



IHO

FUTURE WORK PROGRAMME

International
Hydrographic
Organization

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)



IHO

ACTIONS REQUESTED FROM HSSC

International
Hydrographic
Organization

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