

## 13<sup>th</sup> Meeting of the Data Quality Working Group (DQWG) IHO Secretariat, Monaco, 15–19 January 2018

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Contribution to the IHO Work Programme 2018	
Task 2.1.2.6	HSSC WGs meetings / DQWG
Task 2.4.9	S-57 Framework / S-67 – <i>Mariners' Guide to Accuracy of ENC</i> s

The 13<sup>th</sup> meeting of the IHO Data Quality Working Group (DQWG) took place at the Secretariat of the IHO, Monaco, from 15 to 19 January.

The meeting was chaired by Mr Rogier Broekman (Netherlands) supported by Mr Sean Legeer (US), as Vice-Chair, and Mr Jyrki Mononen (Finland), as rapporteur. Ten delegates from nine Member States (Denmark, Finland, France, Italy, Japan, Netherlands, Norway, United Kingdom and United States of America) attended the meeting as well as a representative of the RENC PRIMAR. Director Abri Kampfer, Technical Standards Support Officer Jeff Wootton and Assistant Director Yves Guillam represented the IHO Secretariat.



Participants in the DQWG-13 meeting, IHO Secretariat, Monaco

According to its new terms of reference adopted at the 9th meeting of the Hydrographic Services and Standards Committee (HSSC-9), one of the main objectives of the DQWG is to ensure that the data quality aspects are addressed in an appropriate and harmonized way for all S-100 based product specifications.

The first two days of the meeting were dedicated to a workshop addressing data quality aspects of the S-101 – *ENC Product Specification - Data Classification and Encoding Guide (DCEG)*, and the best practices on the way CATZOC values are populated for S-57 ENC's by Hydrographic Offices. This workshop highlighted useful rules implemented by some countries (generalization, impact of the

passage of time, assessment of so-called unsurveyed areas, conversion tables from S-44 survey metadata to CATZOC values, etc.).

The workshop and the meeting also aimed to capture the generic data quality components to be considered in the development of a data quality checklist for S-100 based products. After an introduction of ISO quality aspects and the INSPIRE<sup>1</sup> technical guidelines for quality elements depicted in the Data Specification on Elevation, a systematic review and comparison was made between existing S-100 based draft product specifications. A special focus was made on S-102 – *Bathymetric Surface*, thanks to the participation of the representative from PRIMAR.

#### Data quality elements

1. Completeness
2. Logical consistency
3. Positional accuracy
4. Temporal quality
5. Thematic accuracy
6. Aggregation measures
7. Usability

The final result is conformity: fully conformant, not conformant or not evaluated.



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The meeting also considered the comments made by the members of the Nautical Information Provision and Nautical Cartography Working Groups on the draft publication S-67 – *Mariners' Guide to Accuracy of ENC's*. It was concluded that a fair amount of work is still needed before this publication is re-submitted to HSSC for endorsement. As it remains a top priority to address mariners' requirements with regard to the quality of bathymetric data, the working group considered different methodologies to help in the decision making process (combination of safety depths and contours with data quality) while the portrayal aspects will need to be addressed by the Nautical Cartography Working Group.

The next meeting is planned at the IHO Secretariat, Monaco, from 5 to 8 February 2019.

Further information concerning the meeting is available on the IHO web site at [www.iho.int](http://www.iho.int) > Committees & WG > DQWG > DQWG-13 > Documents.

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<sup>1</sup> Infrastructure for Spatial Information in Europe.