

15th Meeting of the Hydrographic Services and Standards Committee

Report of the Data Quality Working Group

Agenda Item 05.5A

HSSC-15, Helsinki, Finland, 5 – 9 June 2023



International Hydrographic Organization New Chair (Lingzhi WU, CN) and Secretary (SCOTT YOUNGBLUT, CA). (Action HSSC14/62)

DQWG has met once since HSSC 14

18th DQWG meeting -7-9 Feb 2023

- VTC Event
- 30 delegates
- 14 member states
- 1 representative from the RENCs
- 7 Expert contributors

The following subWG have met during this period - CATZOC SubWG

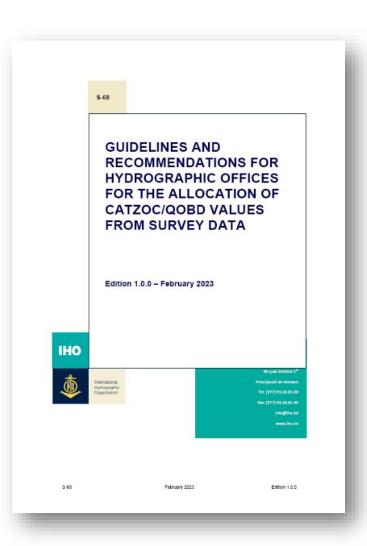




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Guidelines from Survey to CATZOC

- The Guidelines and Recommendations for Hydrographic Offices for the Allocation of CATZOC was developed by DQWG and then reviewed by HSWG. After that, DQWG revised the Guidelines according to the recommendations and suggestions from HSWG. (Action HSSC14/60)
- DQWG 18 endorsed the Guidelines and Recommendations for Hydrographic Offices for the Allocation of CATZOC Edition1.0.0.
- The CSBWG has been informed that "Guidelines and Recommendations for Hydrographic Offices for the allocation of CATZOC" Edition 1.0.0, which will be beneficial to evaluate the quality of CSB data and promote the application of CSB data, has been finished by DQWG and will be submitted to HSSC15 for approval as a new IHO Publication S-68. (Action HSSC14/61)





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Cross Check of Data Quality Chapters of S-1xx Product Specifications

- The Cross Check of S-104 Ed 1.0.0 and S-128 Ed 1.0.0 has been finished.
- DQWG has developed a recommended template of data quality chapter of S-1xx data product specifications which will be submitted as revision proposal for Appendix D of S-100 Part 11, to the S-100WG for consideration and possible inclusion in the next Edition of S-100.
- DQWG has prepared three documents for the consideration of S-100WG (S-101, S-102, S-121 and S-129), NIPWG (S-122, S-123, S-127 and S-128) and TWCWG (S-104 and S-111), and plan to invite these WGs to nominate a DQ focal point in their WGs who will be invited to participate in the activities of the DQWG. Up to now, the related document and invitation have been submitted to TWCWG7 for their consideration.



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Cross check of S-1xx Feature Catalogues

- DQWG has implemented the Cross check of feature catalogues of S-101 Ed 1.1.0, S-102 Ed 2.0.0, S-104 1.0.0, S-111 1.0.0 and S-129 1.0.0. The aims of the Cross check of S-1xx Feature Catalogues are to:
 - Confirm that the Feature Catalogue contents are consistent with the corresponding DCEG document.
 - Identify any areas where the S-101 Feature Catalogue is not consistent with other S-1xx product specifications
 - Confirm that the items present in the feature catalogue are consistent with the GI registry contents.
 - Confirm that the Feature Catalogue structure and content conforms to the S-100 standard.
- The review results and recommendations will be submitted to S-1xx developers respectively. Members of S-1xx PTs will be invited to participate in the next review before submission of Ed. 2.0.0 in any case.



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Translation of S-67 (Action HSSC14/58)

- French version of S-67 has been finished by SHOM and uploaded on the French version of IHO Website.
- Chinese version of S-67 has been finished by China MSA and uploaded on the Chinese version of IHO Website.



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Review the draft S-67 new edition

- A subWG has been established to review the draft S-67 new edition and recommend edits to produce a first credible output for Mariners.
- The first ENCWG & DQWG S-67 Meeting has been held on March 1st in 2023. The meeting discussed how to proceed with review and update of S-67.



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Revision of S-100 Part 4C and S-97 Part C

- Draft amendments for S-100 Part 4C "Metadata Data Quality" and S-97 Part C "Data Quality" have been prepared by DQWG chair and reviewed by DQWG18.
- A subWG has been established to review S-100 Part 4C and S-97 Part C but to limit the work to critical DQ issues only.
- S-100WG has been informed that the DQWG has started a review and revision of S-100 Part 4C and S-97 Part C and the results will be submitted to S-100WG for consideration.



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Action HSSC14/59

HSSC encouraged Member States to start **populating appropriate POSACC / SOUACC values** in existing S-57 ENCs for relevant spatial objects in preparation of conversion to S-101.

•This issue has been discussed on the DQWG18, and RENCs are requested to consider providing status on the progress of the encoding of POSACC/ SOUACC to the DQWG Chair prior to HSSC16 (Action HSSC14/59 refers) for an assessment of S-100/S-101 readiness.



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S-100 Validation and DQ

- A new task to link DQ checks (S-100 generic and products-specific) to DQ measures has been identified by DQWG18.
- DQWG will provide feedback with comments and recommendations on the DQ requirements in S-100 validation checks to S-100WG and S-1xx PTs.



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MASS and DQ

 DQWG Plans to consider the DQ requirements of MASS and provide feedback to MASSPT.



IHO PROBLEMS OR OUTSTANDING ISSUES

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- The working group has not held an in-person meeting for three years. Although VTC meetings are beneficial to increase the number of participating members, they also limit the depth and breadth of communication. An inperson meeting will be held in China in 2024. Hope it will help to solve this problem.
- DQWG chair team has been vacant for many years. Hope a complete chair team will be elected at the next meeting.



IHO RECOMMENDATIONS

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It is recommended to:

- Approve the Guidelines from Survey to CATZOC Ed 1.0.0 as a new Publication S-68, and task the working group to continue the work for a new Edition.
- Encourage S-1xx PTs to use the recommended template of data quality chapter once it is included in the next Edition of S-100.
- Task the working group to continue to review the DQ Chapters of new and amended Product Specifications.
- Task the working group to continue the cross check of other released S-1xx FCs, and encourage S-1xx PTs to participate in the next review before submission of Ed. 2.0.0.
- Task the working group, liaison with S-100WG, to improve the amendments for S-100 Part 4C "Metadata - Data Quality" and S-97 Part C "Data Quality".
- Task the working group, liaison with S-100WG, to develop DQ Validation checks.



IHO FUTURE WORK PROGRAMME

Work Plan - 2023 to 2024

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Task	Work Item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-Completed	Contact Person	Affected Pubs/Standard	Remarks
A.1	Development of the DQ validation checks	н	DQWG19	2023	2024	0	Chair	S-100	DQWG18-08.1A
B.1	Development of a minimum standard for Data Validation in S-1xx based products.	н	S-101 Ed.2.0.0	2018	2024	0	Chair	S-1xx	None
B.2	Review S-1xx based PS (Ed.1.0.0 or higher)	н	DQWG19	2021	2024	0	Chair	S-1xx	DQWG 18-03.1A
B.3	Review S-1xx Feature Catalogues	М	S-101 Ed.2.0.0	2021	2024	0	Chair	S-1xx	DQWG18-05.1A
C.1	Review S-100 Part 4C.	Н	Next Edition of S-100	2022	2024	0	Chair	S-100	DQWG15-04.4B
C.2	Review S-97 Part C.	н	DQWG19	2023	2024	Ο	Chair	S-97	DQWG18-06.2A
D.1	Provide guidance documentation how to populate CATZOC values.	н	DQWG19	2021	2024	0	Chair	S-101 DCEG	DQWG18-05.3A
E.1	merging S-66 and S-67 into a single IHO publication	н	DQWG19	2023	2023	0	chair	S-66, S-67	HSSC 14/40
G.1	Monitor development of autonomous shipping by the industry	М	DQWG19	2020	2024	0	Chair	S-101, S-102, S- 104	None



IHO ACTION REQUIRED OF HSSC

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- The HSSC is invited to:
- a. note this report.
- **b. endorse** the Edition1.0.0 of Guidelines and recommendations for Hydrographic Offices for the allocation of CATZOC as a new Publication S-68.
- c. approve the Work Plan 2023-2024 .
- d. approve the above recommendations .