

Combined 8th Meeting of the ENC Working Group (ENCWG) and 11th Meeting of the S-101 Project Team (S-101PT)

Lombok, Indonesia, 25-29 September

Contribution to the IHO Work Programme 2023	
Task 2.1.2.2 & 2.1.2.11	Organize, prepare and report meetings of the ENCWG and S-101 PT

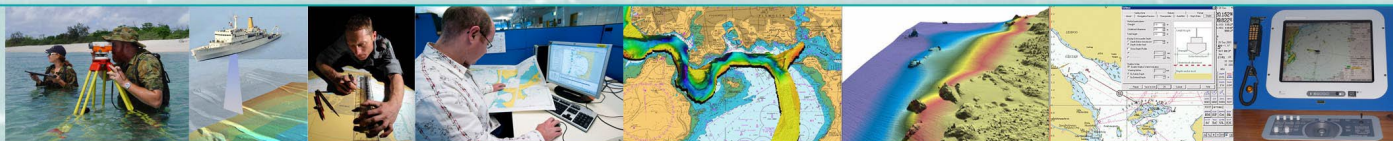
The 8th meeting of the ENC Working Group (ENCWG8) combined with the 11th meeting of the S-101 Project Team (S-101PT11) was held in Lombok, Indonesia from 25 to 29 September 2022 in a hybrid format.

The ENCWG sessions of the meeting were chaired by Mr Thomas Mellor (United Kingdom) and the S-101PT sessions of the meeting were chaired by Mr Thomas Richardson (United Kingdom). 52 delegates from 27 Member States (Argentina, Australia*, Brazil, Canada*, Chile, China, Denmark*, Egypt, Finland*, France*, Germany, Greece, India*, Indonesia*, Italy, Japan, Netherlands*, New Zealand*, Norway, Portugal, Republic of Korea*, Slovenia, Spain, Sweden*, United Arab Emirates, United Kingdom* and USA*); 2 External Liaisons (International Electrotechnical Commission (IEC)* and Inland ENC Harmonization Group (IENC)); and 13 Expert Contributors attended the meeting. The IHO Secretariat was represented by Assistant Director Yong Baek, who acted as Secretary for the ENCWG portion of the meeting; and Technical Standards Support Officer Jeff Wootton, who acted as Secretary for the S-101PT portion of the meeting.

The combined meeting commenced with an opening address by the Commander of the Indonesian Navy's Hydro-Oceanographic Centre (Pushidrosal), Vice Admiral TNI Nurhidayat. The programme for the combined meeting was structured such that the first half of the meeting covered the ENCWG Agenda (days 1 and 2), followed by the S-101PT Agenda (days 3 and 4) and any residual items on day 5.

The ENCWG Chair introduced the major items to be discussed at the ENCWG portion of the meeting which were aligned with the Decisions and Actions from the HSSC15 meeting (June 2023); and new submissions impacting on the IHO Specifications that are under the remit of the ENCWG. This included the requirement to conduct an impact study on the development of a New Edition of S-64 - *IHO Test Data Sets for ECDIS*; progress on the merging of S-66 - *Facts about Electronic Charts and Carriage Requirements* and S-67 - *Mariners' Guide to Accuracy of Depth Information in Electronic Navigational Charts (ENC)* into a single IHO Publication, also aiming to incorporate ENC and ECDIS related information papers; amendments required to S-52 - *Specifications for Chart Content and Display Aspects of*

* Face-to face attendance.



ECDIS and S-64 to cater for requirements in S-100 ECDIS when in dual-fuel mode; and approval of the IHO ECDIS Cyber Security Guideline. The establishment of an ECS Project Team (ECS PT) under the ENCWG by the HSSC was also reported. Additional discussions focused on approval of a New Edition of S-58 - *ENC Validation Checks*; ENC conversion (S-57 to S-101 and S-101 to S-57) and reports on the results of data conversion tests by Member States; and clarifications to S-52 Annex A - *IHO ECDIS Presentation Library*.

During the progress report on the merging of IHO Publications S-66 and S-67 the decision of the HSSC to retain the designation of the merged Publication as S-66 rather than the previously agreed S-67 was reported. The meeting also approved the final draft of the IHO ECDIS Cyber Security Guideline which is to be included in this Publication.

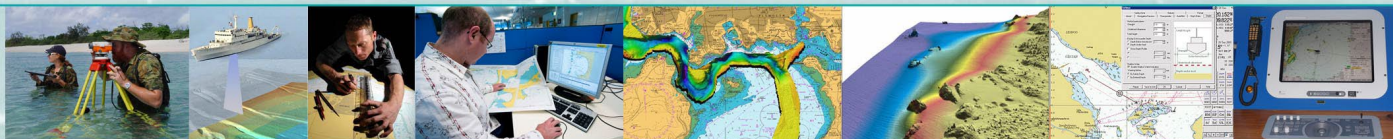
The Working Group agreed to proceed with the development of an S-64 impact study to engage a broader range of stakeholders in assessing the impact of the introduction of a revision of S-64. The Working Group also approved clarifications to S-52 Annex A and S-57 Appendix B-1, Annex A – *Use of the Object Catalogue for ENC* based on proposals submitted to the meeting; and approved the New Edition of S-58 for submission to the HSSC for endorsement.

Reports were presented by the IHO-Singapore Laboratory and the S-57 Sub-Group; and update reports provided on S-62 - *List of IHO Data Producer Codes* and S-63 - *IHO Data Protection Scheme*. Several proposals relating to the S-57 framework and data encoding were discussed. An update report was also submitted by the ENC Conversion Sub-Group, with the publication of Edition 1.1.0 of S-65 Annex B – *S-57 ENC to S-101 Conversion Guidance* by the ENCWG earlier in the year being noted.

At the conclusion of the ENCWG portion of the joint meeting, the ENCWG elected Mr Thomas Mellor (UK) as Chair, and Mr Richard Fowle (Denmark) as Vice-Chair by acclamation.

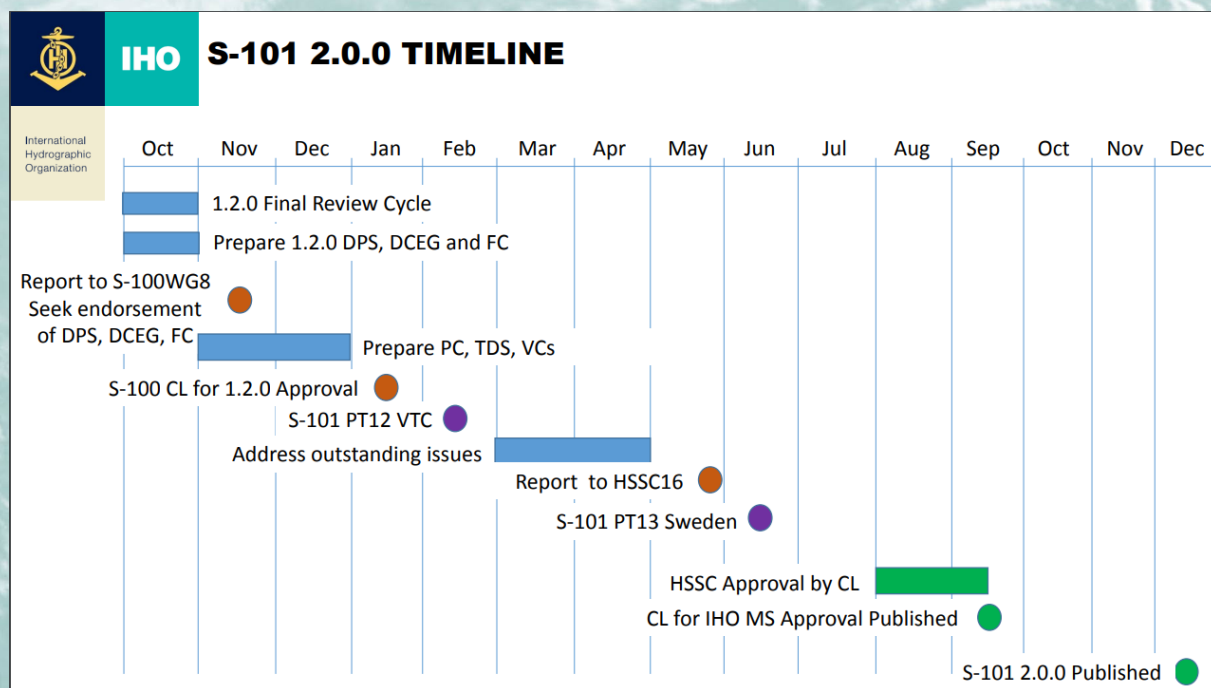


ENCWG8/S-101PT11 in-person participants

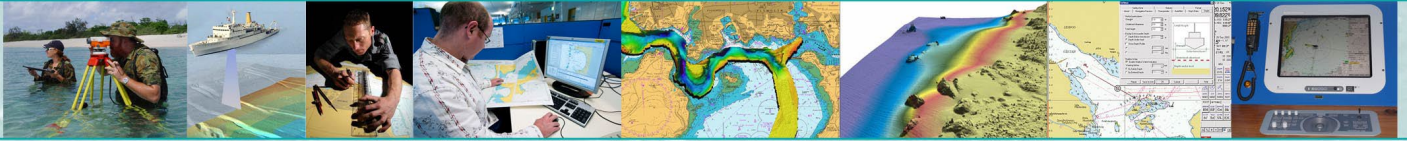


The S-101PT Chair commenced the S-101PT portion of the meeting, stating that the principle outcome of the meeting was to achieve Project Team approval of the Product Specification Main document and Annex A – *Data Classification and Encoding Guide* (DCEG) for Edition 1.2.0 of S-101 for submission for approval by the S-100WG at S-100WG8 (November 2023). It was confirmed that S-101 Edition 1.2.0 would be the last implementation and testing version of S-101 before the development of the first operational Edition 2.0.0 of the Product Specification, so as to achieve the timeline for S-101 development as outlined in the S-100 Roadmap. Changes to the S-101 Main document and S-101 Annex A were discussed and approved as part of the delivery of the S-101 DCEG Sub-Group report, with further changes to both documents approved for inclusion in Edition 1.2.0 based on proposals submitted to the meeting (S-101PT approval of the changes to be achieved by correspondence prior to submission to S-100WG8).

Revisions to the S-101 Terms of Reference were approved for submission to the S-100WG for endorsement. Update reports were presented from the S-101 Portrayal, Data Validation Checks, Dataset Load/Unload and Scales, and Test Dataset Sub-Groups. Significant progress was reported in all areas of S-101 development, with the development of the S-101 Edition 1.2.0 Feature and Portrayal Catalogues to be commenced on approval of the S-101 Edition 1.2.0 Main document and DCEG by the S-100WG. It is intended to publish S-101 Edition 1.2.0 in the first quarter of 2024.



S-101 Edition 2.0.0 Development Timeline ranging from Oct 2023 to December 2024



Several proposals for amending or extending S-101 were submitted to the meeting, with decisions as to whether approved changes were to be included in S-101 Edition 1.2.0 or Edition 2.0.0 based principally on testing requirements.

The next meeting of the S-101PT (S-101PT12) will be held from 13-15 February as a remote (VTC) meeting. The next meeting of the ENCWG (ENCWG9) is scheduled to be held in fall 2024 in Denmark (date and venue to be confirmed).