

17th Meeting of the Southern African and Islands Hydrographic Commission

Hydrographic Services and Standards Committee

Director Abri Kampfer



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Increased focus on Survey Activities and Accuracy on Depth Information

- Adoption of Edition 6.0.0 of Standards for Hydrographic Surveys S-44.
 - Important for all forms of governmental and commercial survey.
- Establishment of the new Hydrographic Surveys Working Group (HSWG).
 - Future scope: survey standards expansion to new fields / technologies



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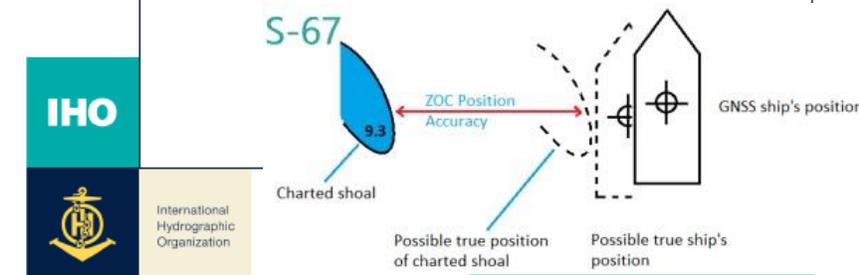
Increased focus on Survey Activities and Accuracy on Depth Information

- Adoption of first edition of Mariners' Guide on Accuracy of Depth Information in ENC's (Publication S-67, Ed. 1.0.0, September 2020)
 - Provides comprehensive guidance for mariners to understand the underlying data quality in ENC's, which is crucial for a safe navigation with an ECDIS.

S-67

Mariners' Guide to Accuracy of Depth Information in Electronic Navigational Charts (ENC)

Edition 1.0.0 – September 2020



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The Future of the Paper Nautical Chart, August 2020

“An Overview of Issues and Recommendations Regarding Paper Nautical Charts in the Current and Future Marine Environment by the International Hydrographic Organization”

- Outcome and analysis of a comprehensive survey among Member States leading to...
- ... a set of combined and consistent recommendations for development of a way forward under existing IHO standardization framework:
 - Guidance for Hydrographic Offices to produce paper charts or raster chart images directly from S-101
 - Maintenance of S-4, Chart Content specifications, and INT-1 remains an ongoing activity
 - Focus on ENC schemes and less on INT-chart coverage.
 - No separate specification for simplified or back-up paper charts

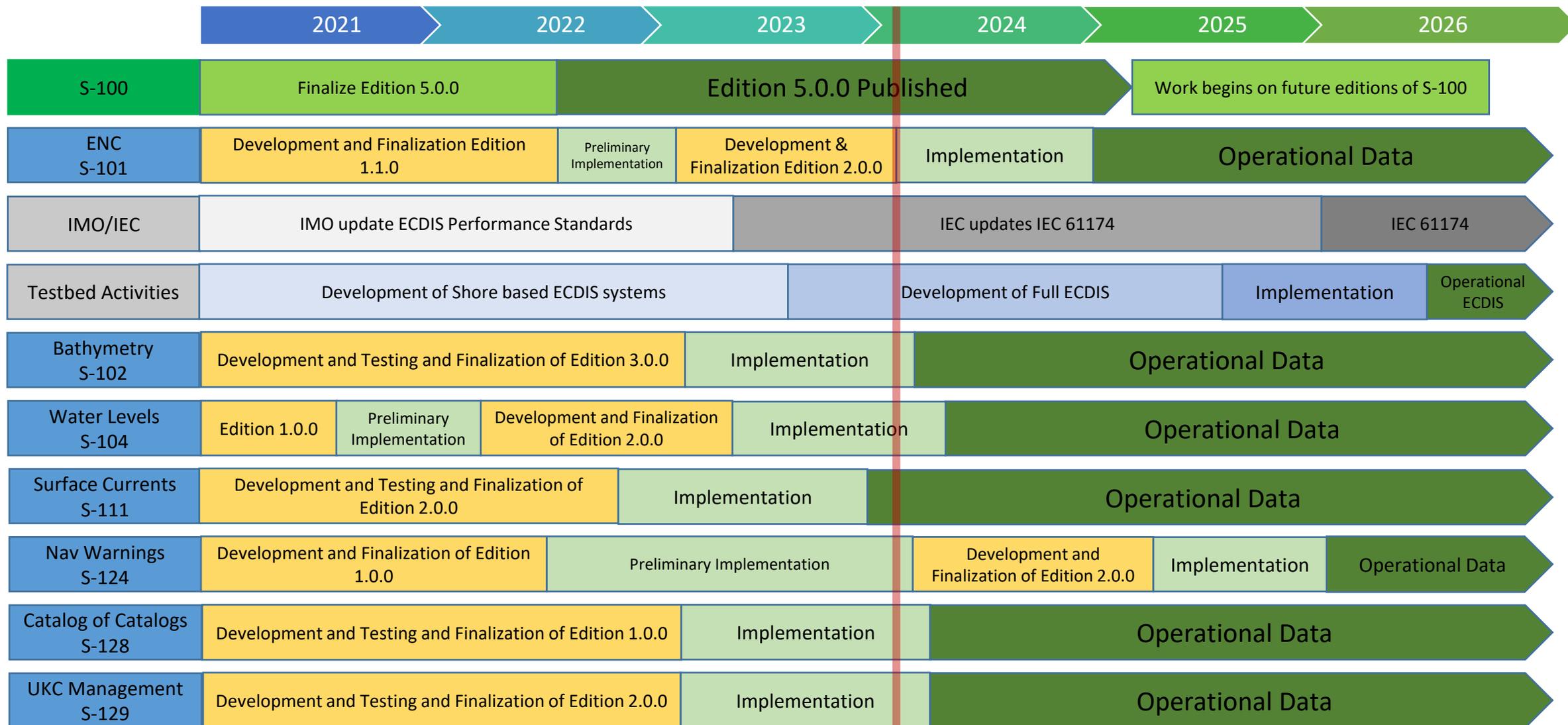


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S-100 Product Specifications developments and Timeline



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S-98 Interoperability Specification

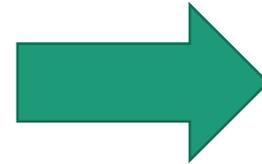
The IHO Navigational Package

First step

Navigational Route Monitoring Mode

S-98 Edition 1.0.0

S-101 ENC
S-102 Bathymetry
S-104 Water Level
S-111 Surface Currents
S-124 Navigational Warnings
S-129 UKC Management



Next step

Navigational Route Planning Mode

Future S-98 Editions

S-122 Marine Protected Areas
S-123 Marine Radio Services
S-125 Marine Navigational Services
S-126 Marine Physical Environment
S-127 Marine Traffic Management
S-131 Marine Harbour Infrastructure

+ S-100 Products used in
Monitoring Mode

S-128 Catalogue of Catalogues



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Dual Fuel Concept

- Dual Fuel Concept affects more aspects than ECDIS;
 - HOs production, maintenance and distribution of ENC,
 - Coordination of regional ENC schemes and collaboration of RENCs,
 - distribution and interaction with other International Bodies (IMO/IEC/CIRM).
- Suggested principles:
 - Unambiguous and standardized import and parallel use of both S-57 ENC and S-101 ENC supporting enhanced user functionality.
 - ECDIS behavior should not be any less “safe” regardless of whether S-57 or S-101 ENC is in use.
 - User experience should never be negatively impacted by amending use of any other S-100 compliant data product such as S-102 (Bathy), S-104 (Water Level), S111 (Surface Currents).



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Assembly Proposal 2.2

- **A2 PRO 2.2:** Necessity of an Risk Assessment on Dual Fuel ENC arrangements

HSSC12 outcome:

- Prepare a synoptic summary report on the various options offered to HOs for future production of S-101 ENCs in conjunction with S-57 maintenance/production.
- Summary report to be reported to Council 5, 2021.



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Actions Requested From SAIHC17

- **Note** the HSSC Report



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