

Highlights of HSSC 12

Hydrographic Services and Standards Committee

SWPHC18

Magnus Wallhagen

HSSC Chair

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VTC, 17 – 19 February 2021

Update items to be reported

- Increased focus on Survey Activities and Accuracy on Depth Information
- Report on the Future of the Paper Nautical Chart
- Others achievements or progress
- Progression on S-100 Product Specifications developments and Timeline
- Contribution to S- 100 Implementation Strategy



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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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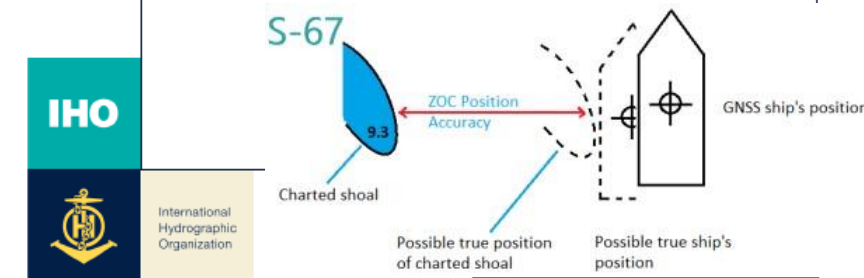
Increased focus on Survey Activities and Accuracy on Depth Information

- 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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Others achievements or progress

- Finalization of the guidance on producing and maintaining HD ENC
- Extensions to S-63 (IHO Data Protection Scheme) to address cyber security concerns
- Marine Harbour Infrastructure (S-131) PS will be developed in connection with the International Harbour Association & the International PortCDM Council



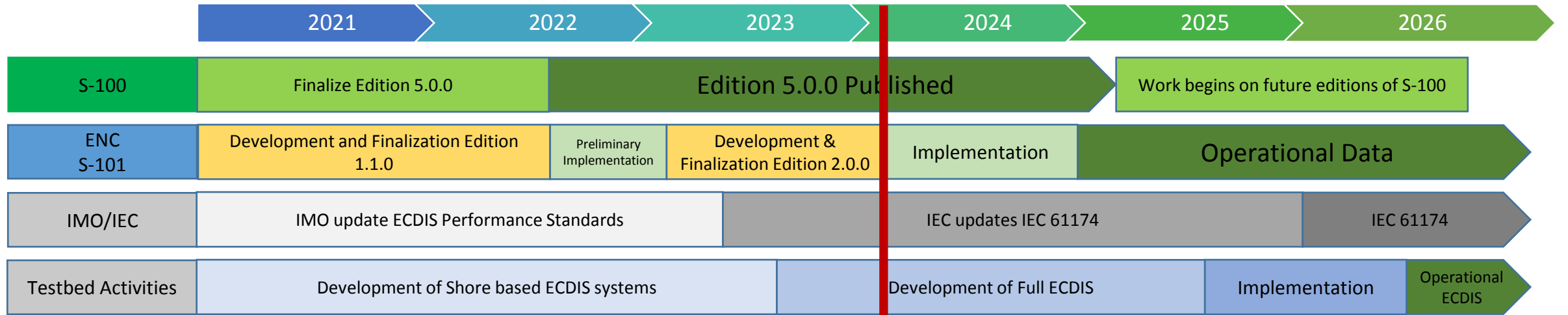
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S-100 Product Specifications developments and Timeline



HOs to Produce Operational S-101 ENCs



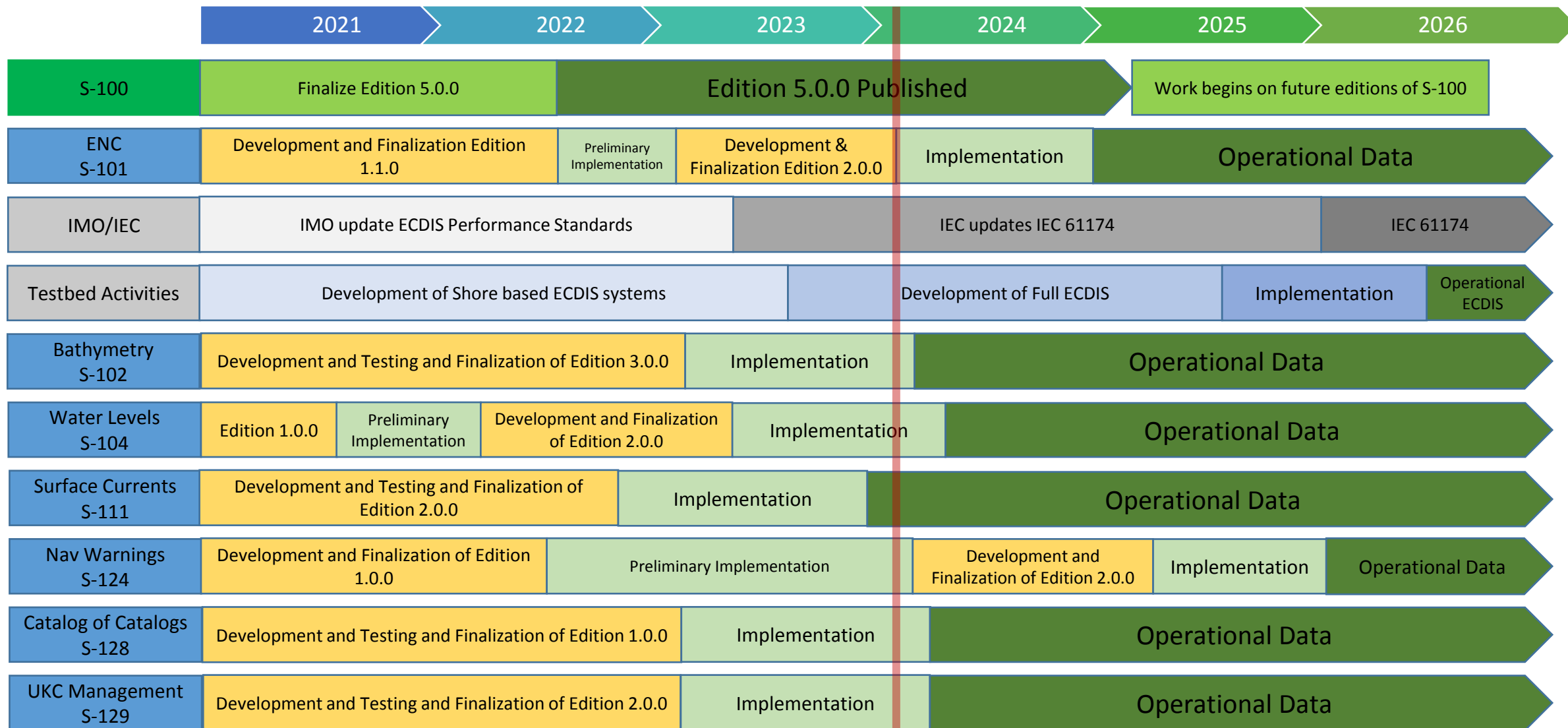
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Contribution to S-100 Implementation Strategy

S-98 Interoperability Specification for S-100 based navigation systems

First step → submit Ed. 1.0.0 for endorsement in 2021

**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 → Incremental approach for additional PS

**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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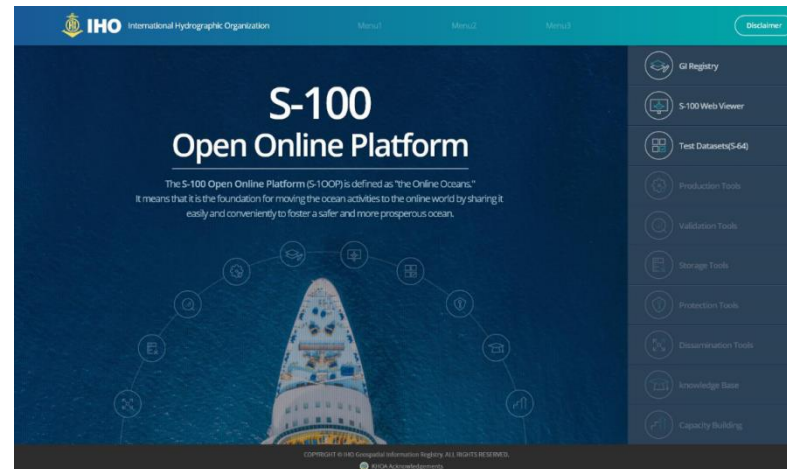
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Contribution to Implementation Strategy

- Update the S-100 Implementation Timeline as a result of other International Organization's capabilities and some delays in development of Product Specifications.
- Consider to participate in the future S-100 Open Online Platform (S-100P) operated by ROK, where data and services are shared to facilitate the application of S-100.



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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).

- 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 Council 5, 2021.



HSSC recommendations for SWPHC

- Note the HSSC Report
- Note the establishment of the new Hydrographic Surveys Working Group (HSWG) and encourage MSs to participate
- Note the publication of S-44 and encourage new applications of the version 6.0 for hydrographic Surveys
- Note the publication of S-67 and encourage the encoding of meaningful values of CATZOC

- Take any other action as appropriate

