

23rd Meeting of the Meso American – Caribbean Sea Hydrographic Commission

IHO Council Update



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6th Council Meeting



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Monaco, 18-20 October 2022



S-100 Implementation Strategy

- Approved the proposed amendment to the document ‘Collaboration with IMO and other liaising organizations’ - Annex 1 to the Roadmap for the S-100 Implementation Decade;
- Approved the updated version 2.0 of the ‘S-100 Priorities and Timelines’ - Annex 2 to the Roadmap for the S-100 Implementation Decade;
- Approved version 1.0 of the ‘Guidelines on the Implementation of the WEND-100 Principles’ - Appendix 1 to Annex 3 to the Roadmap for the S-100 Implementation Decade - A-3;
- Endorsed version 1.0 of the ‘Dual Fuel Concept for S-100 ECDIS - Executive Summary’ - Annex 4 to the Roadmap for the S-100 Implementation Decade - A-3.

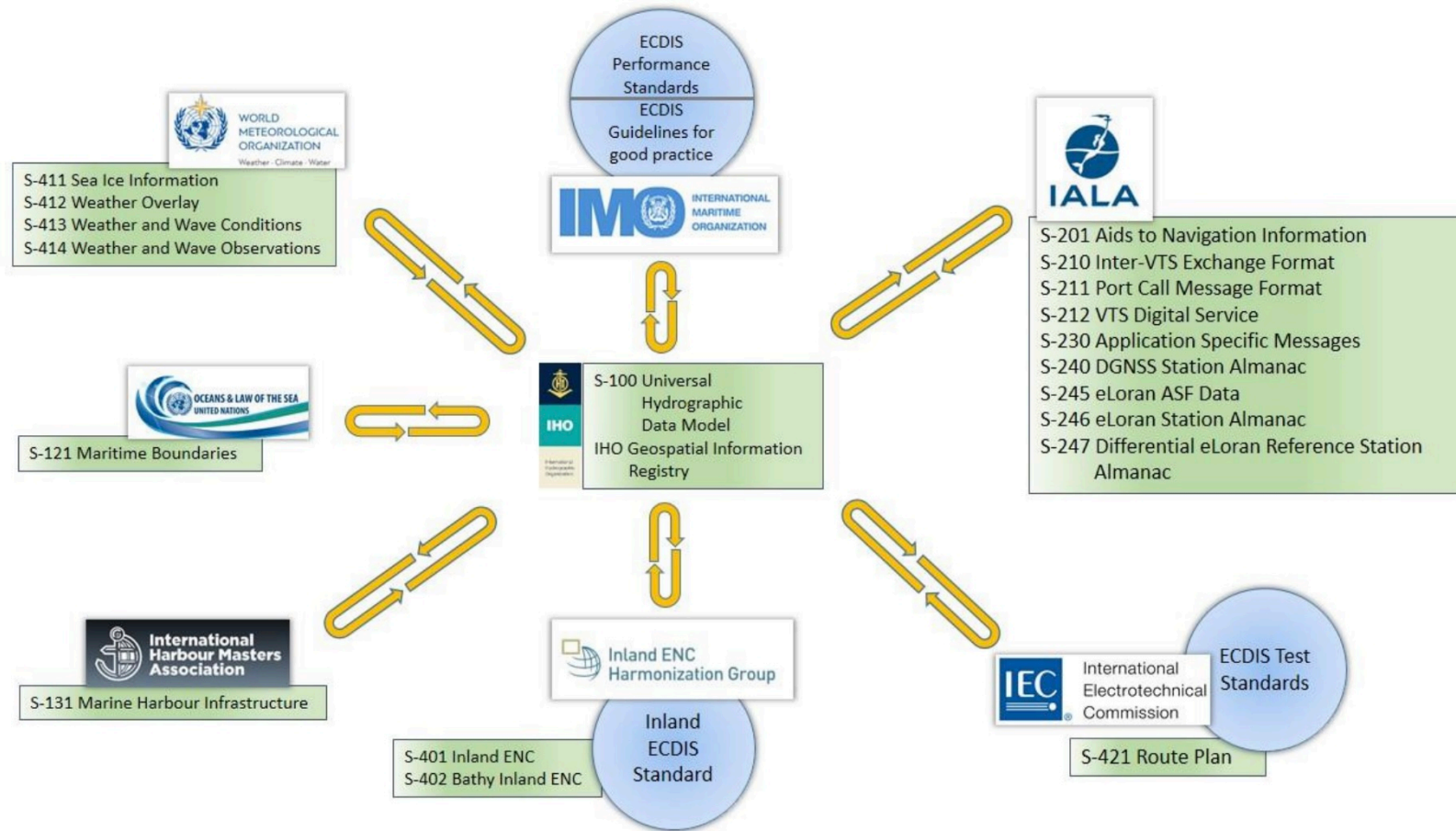


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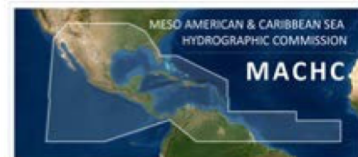


Collaboration with IMO and other liaising organizations



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Distribution and Priority of S-100 based products

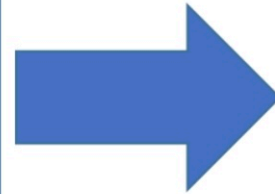
First step

Navigational Route Monitoring Mode

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

Critical Framework

- IHO Geospatial Information Registry
- S-98 Interoperability Specification
- S-100 Universal Hydrographic Data Model
- S-128 Catalogue of Nautical Products
- S-164 Test Data Set for S-100 and ECDIS Type Approval



Next step

Navigational Route Planning Mode

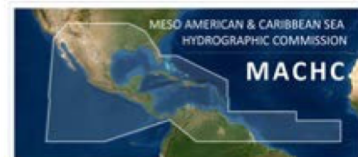
- S-122 Marine Protected Areas
- S-123 Marine Radio Services
- S-125 Marine Aids to Navigation (AtoN)
- S-126 Marine Physical Environment
- S-127 Marine Traffic Management
- S-131 Marine Harbour Infrastructure

+ S-100 Products used in
Monitoring Mode

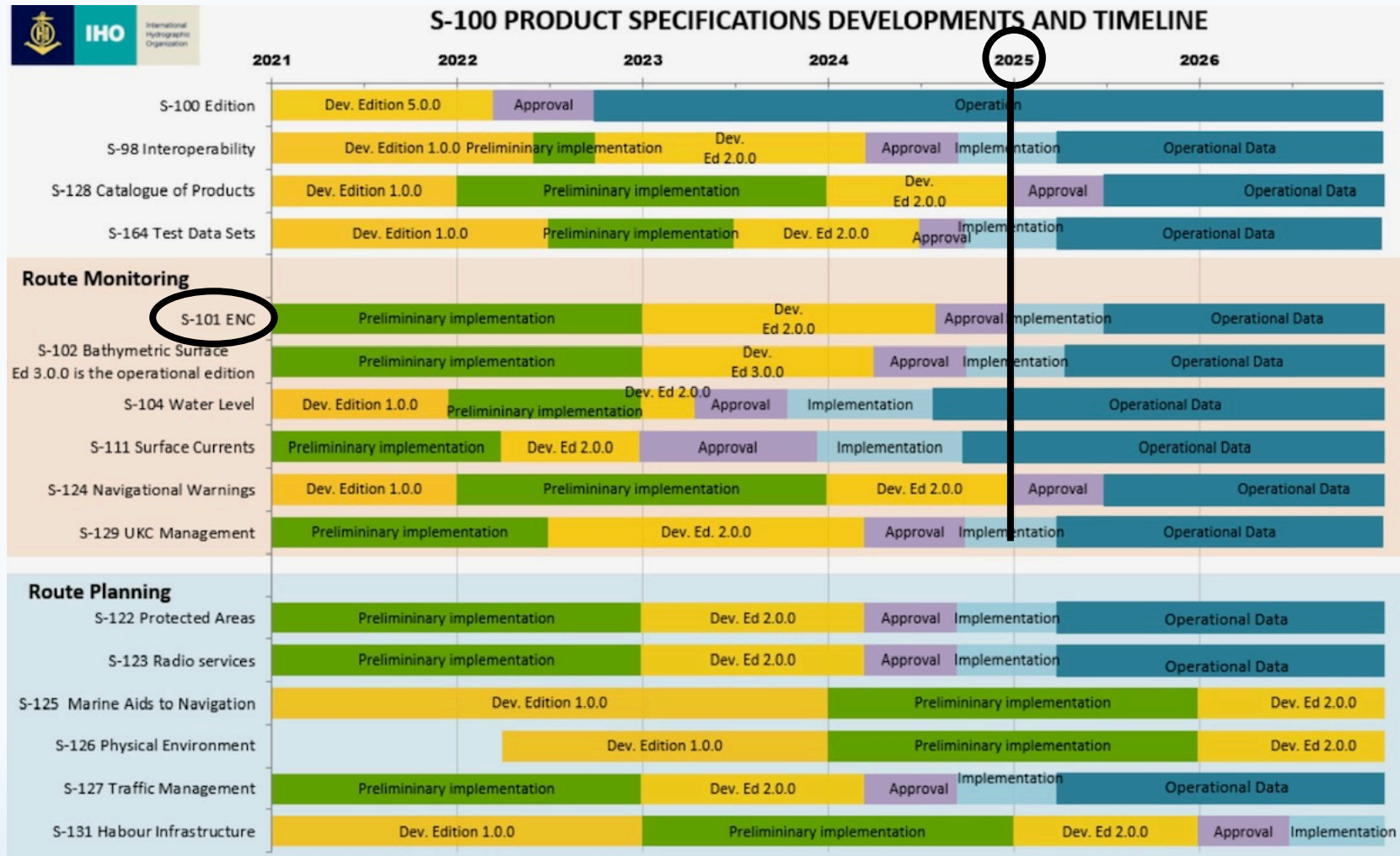


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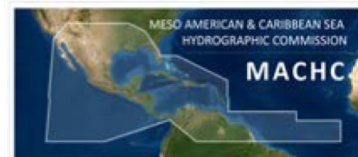


S-100 Timeline for the Prioritized IHO Product Specifications



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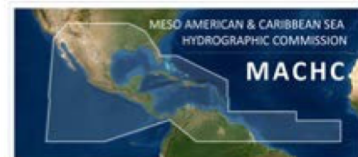
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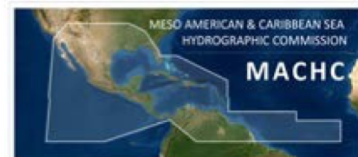
S-100 Implementation Strategy

- Countries were invited to participate in the S-100 Testbed Project;
- ‘S-57 ENC to S-101 Conversion Guidance’ (Edition 1.0.0, May 2022) - Annex B to IHO Publication S-65 (‘ENCs: Production, Maintenance and Distribution Guidance’);
- Noted the progress made by the IHO-Singapore Innovation and Technology Lab on the following projects:
 - S-131- Marine Harbour Infrastructure Database,
 - Development of S-57 to S-101 Conversion Guidance Document,
 - Creation and Test-Bedding of ECDIS capable of displaying S-102 on S-101 ENCs.
- Noted the WEND100-IGIF matrix as a tool to describe the status, the progresses and the needs in introducing S-100 based products.



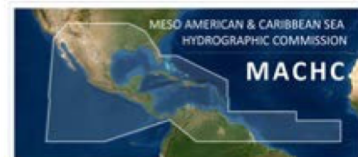
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Collaboration with IMO

- Revision of IMO MSC Circular on “ECDIS - Guidance for Good Practice”
 - approved at MSC 106 in November 2022;
- Revision of IMO MSC Resolution on “Performance Standards for ECDIS”
 - approved at MSC 106 in November 2022:
 - introduces the term ‘Electronic Navigational Data Service’ (ENDS) in substitution to simply ‘electronic navigational chart’;
 - introduces the term ‘system database’ in substitution to ‘system electronic navigational chart’ (SENC);
 - New ECDIS (S-100 ECDIS) will be legal to use after 1 January 2026 with a transition phase until 1 January 2029 when all new systems must comply with the new IMO Resolution on ‘Performance Standards for ECDIS’.



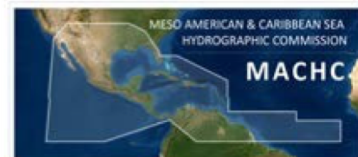
Future of the Paper Chart

- Confirmed the Decision made at A-2 by which priority is to develop guidelines for the automated production of paper charts meeting S-4 chart minimum content requirements from S-101 ENC data;
- Endorsed the offer of the US (supported by AU, DE, DK, KR, and NZ) to document use cases and develop associated guidelines, as well as identify challenges with S-4, to achieve automated production of derived paper charts from ENC content databases and submit them to the HSSC/NCWG for their consideration.



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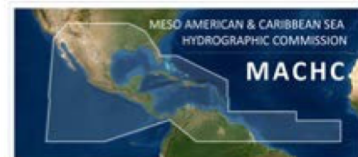
IHO Strategic Plan 2021-2026

- Endorsed that Goal 1 (‘Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation’) and its Targets in the IHO Strategic Plan should have the highest priority in the 2024-2026 Work Programme - A-3.
 - 1.1 Deliver standards for hydrographic data and specifications of hydrographic products; support their regular production; and coordinate regional and global services for their provision.
 - 1.2 Develop standards, specifications and guidelines in the areas of data assurance, including cyber security and data quality assessment.
 - 1.3 Use capacity building and training to develop and increase the ability of Member States to support safety and efficiency of maritime navigation.



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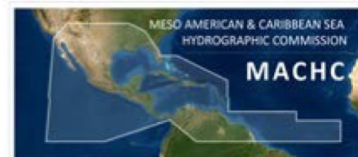
IHO Strategic Plan - Strategic Performance Indicators

- Noted the progress made by IRCC in the development of the methodologies and metrics for Strategic Performance Indicators (SPIs) allocated to IRCC;
- Invited States to consider providing their CATZOC values through the RENCs to support the Secretariat (SPI 1.2.2);
- Agreed to refocus the function (on global thematic layers of information which are genuine to the IHO scope such as those provided under IHO Online Catalogues) and the layout of a future MSDI portal (SPI 2.1.1).



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Budget

- Noted the decrease of Capacity Building Fund over the last few years;
- Endorsed to request A-3, for renewal of Council's entitlement, for an increase of Member States contribution up to 3% subject to the Council's annual budget review between 2024 and 2026, with 2024 as the earliest.



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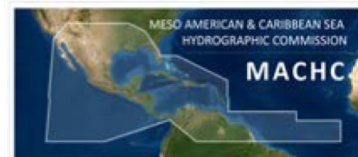
Other Highlights

- Endorsed the proposal of a new generic IHO Resolution on S-100 Implementation - A-3;
- Endorsed the new proposed 'Capacity Building Strategy' - A-3;
- Noted that the efforts on establishing a common global gridding system couldn't reach consensus and is put on hold;
- Noted the proposed theme for the 2023 World Hydrography Day: "*Hydrography - underpinning the digital twin of the ocean*"
 - IHO CL 42/2022 - Deadline: 31 December 2022.



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