



SAIHC19

HSSC15 Report

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INTRODUCTION

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- The 15th HSSC meeting took place from 5 to 9 June 2023 in Helsinki, Finland as a face-to-face meeting
- Industry Stakeholders' Session was arranged for two half day sessions themed "S-100 Industry Perspective",





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OUTCOMES

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15th meeting of HSSC was characterized by two main levels of discussion:

1) An operational/strategic level:

- a) The establishment of a **S-100 Infrastructure Centre Establishment Project Team (S-100 ICE PT)**
- b) The maintenance of the Roadmap for the **S-100 Implementation Decade (2020-2030)** and the associated Annex 2 related to Work Programme 2 (C6/37 and C6/38)
- c) the establishment of a **S-100 Security Scheme PT**
- d) The establishment of an **Electronic Chart System Project Team (ECS PT)**, under the ENCWG, aiming to develop a set of recommendations/issues to be considered by existing IHO bodies, external organisations, and Member States on ECS navigational requirements (A3/15 partly gives a background).
- e) The implementation of the recommendations on the Future of the Paper Nautical Chart (C6/15)



15th meeting of HSSC was characterized by two main levels of discussion:

2) A technical level:

- a) Progresses in the development of the S-1xx Product Specifications
- b) Progress of the work plans, items outside S-100, of subordinate bodies

The list of Decisions and Actions from HSSC15 can be found on the [IHO HSSC15 meeting page](#).

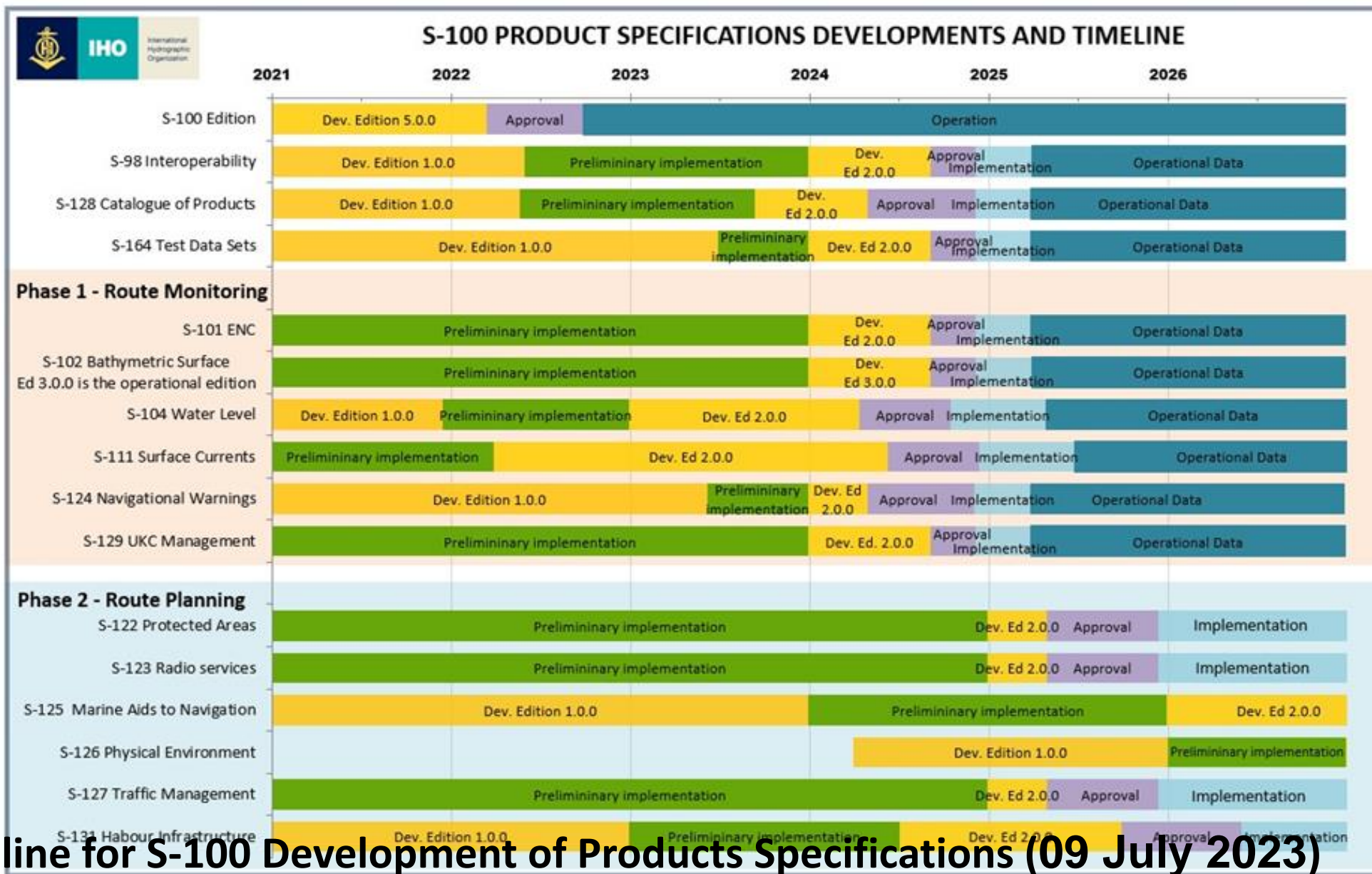


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S-100 IMPLEMENTATION ROADMAP, ANNEX 2

S-100 TIMELINE FOR THE PRIORITIZED PS

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Timeline for S-100 Development of Products Specifications (09 July 2023)



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S-100 IMPLEMENTATION DECADE (2020 – 2030)

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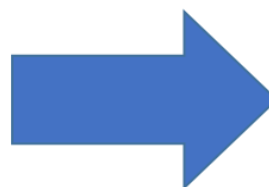
Phase 1 / Route Monitoring

Phase 1 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



Phase 2 / Route Planning

Phase 2 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-411 Ice Information (WMO)
- S-412 Weather and Wave Hazards (WMO)

+ S-100 Products used in
Monitoring Mode



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ELECTRONIC CHART SYSTEM PROJECT TEAM (ECS PT)

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- HSSC15 decided to establish an **ECS PT** under the ENCWG. HSSC drafted the TORs of the new ECS PT in an ad hoc session, at HSSC15. The drafted objectives of the PT are:
 - ✓ to identify and prioritize ECS navigation requirements;
 - ✓ to analyse their impacts on current IHO hydrographic standards; and
 - ✓ to develop a set of recommendations/issues to be addressed by existing IHO bodies, external organisations, and member states



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THE FUTURE OF THE PAPER NAUTICAL CHART

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- The Baseline Portrayal Project Team, BSPT, under NCWG, is in progress to create a digital paper chart symbol library. The aim is to setup Baseline Symbology aiming to support the automated production of paper charts from S-101 data. BSPT is delayed and resources are needed from MS to speed up this work.



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PROGRESSES IN THE DEVELOPMENT OF THE S-1XX PRODUCT SPECIFICATIONS

5.1.0 (CL23/2003, end of Sep 2023)

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Idx	Product ID	Name	Version	Status	Domain	Date updated
194	S-100	Universal Hydrographic Data Model	5.0.0	Published	IHO Hydro	2023-01-31
195	S-101	Electronic Navigational Chart	1.1.0	Published	IHO Hydro	2023-05-09
199	S-102	Bathymetric Surface	2.2.0	Published	IHO Hydro	2023-07-05
198	S-104	Water Level Information for Surface Navigation	1.1.0	Published	IHO Hydro	2023-08-11
178	S-111	Surface Currents Product Specification	1.2.0	Published	IHO Hydro	2023-08-11
177	S-121	Maritime Limits and Boundaries	1.0.0	Published	IHO Hydro	2021-10-29
73	S-122	Marine Protected Areas	1.0.0	Published	IHO Hydro	2021-05-06
74	S-123	Marine Radio Services	1.0.0	Published	IHO Hydro	2021-05-06
181	S-124	Navigational Warnings	1.0.0	Published	IHO Hydro	2023-07-28
175	S-127	Marine Traffic Management	1.0.0	Published	IHO Hydro	2021-05-06
192	S-128	Catalogue of Nautical Products	1.0.0	Published	IHO Hydro	2022-06-30
176	S-129	Under Keel Clearance Management Product Specification	1.0.0	Published	IHO Hydro	2020-08-21
201	S-130	Polygonal Demarcations of Global Sea Areas	1.0.0	Published	IHO Hydro	2023-07-20
193	S-131	Marine Harbour Infrastructure	1.0.0	Published	IHO Hydro	2023-08-17



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PROGRESS OF THE WORK PLANS (ITEMS OUTSIDE S-100)

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- ENCWG is working on an **IHO ENC & ECDIS Cyber Security Guideline**. In cooperation with the DQWG the ENCWG has progress with the new edition of **IHO publication S-67**, Mariners Guide to Accuracy of Depth Information in ENC.
- HSSC agreed to consider the endorsement to merge S-66 and S-67 and to include cyber security guidance and other relevant guidance into a new edition of S-66 and withdraw S-67.
- The ENCWG will conduct an impact study to better understand the consequences of a suggested new edition of the S-57 ENC Test Data Set for ECDIS, S-64



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PROGRESS OF THE WORK PLANS (ITEMS OUTSIDE S-100)

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- the new IHO publication **B-13, Ed. 1.0.0 - Guidance to Satellite-Derived Bathymetry**, which was approved by the Committee at HSSC15.
- **S-68, Ed. 1.0.0 - Guidelines and Recommendations for Hydrographic Offices for the allocation of CATZOC/QoBD Values from Survey Data**, which was approved by HSSC15



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NEXT HSSC MEETING, HSSC16

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- HSSC16 will take place in Tokyo, Japan 27 to 31 May 2024.



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ACTION REQUESTED OF SAIHC

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- a) Note this report.
- b) Take any other actions as considered appropriate.



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Thank you for your attention