

HSSC WORK PLAN 2023-24

Version 30 August 2023

Notes:

a/ This consolidated work plan (WP) has been compiled from the reports submitted to HSSC-15 and following exchanges with HSSC WGs Chairs.

b/ The IHO Task numbers in every WG Work Plan refer to the IHO Work Programme 2 for 2023. They have not been checked against the IHO Work Programme 2024 as it has not been approved by C-7 yet.

c/ Quick links:

§3. S-100WG Work Plan	§4. NIPWG Work Plan	§5. ENCWG Work Plan
§6. HSWG Work Plan	§7. TWCWG Work Plan	§8. NCWG Work Plan
§9. DQWG Work Plan	§10. HDWG/HDCG Work Plan	§11. ABLOS Work Plan
§12. COORD Work Plan	§13. MASS PT Work Plan	§14. S-130 PT Work Plan
§15. S-100 ICE PT Work Plan	§16. S-100 SS PT Work Plan	

Objective:

This work plan aims at ensuring efficient project resource management and alignment, progress monitoring and to provide a communication utility with internal and external parties.

Procedure:

The HSSC work plan covers a rolling two year period and is revised annually. Each subordinate body proposes in its report to the annual meeting of HSSC a revised work plan for the next biennium. Completed work items should be removed from work plans after they have been reported at a subsequent HSSC meeting. The Chairs of the subordinate bodies, along with the HSSC Chair, will meet prior to each HSSC meeting to review progress, and to harmonize the proposed work plans. The proposed work plans for the next biennium will be considered by the plenary with the report of each subordinate body. The draft consolidated HSSC work plan for the next biennium will be reviewed on the last day of the HSSC meeting, incorporating the agreed changes discussed during that meeting. A revised consolidated HSSC work plan incorporating all approved additional work items will be circulated to participants of the meeting for final comment at the same time as the draft minutes of the meeting. HSSC Chair could seek committee members' interim approval for emerging issues between meetings.

Communications:

The HSSC Work Plan will be posted on the IHO website, and a progress summary will be provided at IHO Assemblies.

Monitoring:

In accordance with Decision No. 1 of the 1st Session of the IHO Assembly, the Council evaluates by correspondence the accomplishment of the preceding year's work programme and report to MS through the IHO Annual Report.

Project Numbering:

Each task will be given a sequential number independent of related subordinate body. The related IHO Work Programme Element number and the specific HSSC meeting that approved the inclusion of the task will be identified in the HSSC Work Plan summary. Each sub task will be numbered using an alphanumeric sequence, "An, Bn, Cn.."

Priorities:

Three Levels of Priorities (H, M, and L) will be assigned by HSSC using the "Guidelines for the Evaluation of Proposed New Work Items for HSSC and its Subordinate Bodies" (see section 1 hereafter).

1. GUIDELINES FOR THE EVALUATION OF PROPOSED NEW WORK ITEMS FOR HSSC AND ITS SUBSIDIARY BODIES

Introduction

- 1.1 In order to best use the limited resources available to HSSC and its subordinate bodies, it is necessary to evaluate and prioritise proposed new work items. These guidelines are based on the principles originally agreed at CHRIS/13 and CHRIS/15 and revised and enhanced at CHRIS/18. They are intended to provide a uniform basis for evaluation and prioritisation.
- 1.2 Evaluation should be done as a two-stage process:
- a. general consideration leading to acceptance or rejection; and if accepted,
 - b. establishment of priorities.

General acceptance

- 1.3 Before deciding to include a new item in the work plan of HSSC and its subordinate bodies, the following factors should be taken into account:
- a. is the subject addressed by a proposal considered to be within:
 - (1) the scope of IHO objectives?
 - (2) the current IHO work programme?
 - b. has a need for the measure proposed been identified (for example, client demand, internal improvements)?
 - c. do adequate industry standards or solutions exist or are they being developed thereby reducing the need for action through HSSC and its subordinate bodies?
 - d. is the objective achievable in the existing HSSC and its subordinate bodies' work plan taking into account a realistic estimates of resources needed and available?
 - e. what are the envisaged deliverables?

Establishment of priorities

- 1.4 Priorities for accepted work items should normally be assigned based on consideration of the following factors:
- a. measures aimed at substantially preventing maritime casualties, marine pollution incidents or enhancing maritime security
 - b. measures to overcome identified deficiencies in existing IHO standards and technical resolutions;
 - c. measures needed to align IHO standards and resolutions with those of other relevant international standards and recommendations;
 - d. measures required to take into account the introduction of new technologies and methods in maritime operations;
 - e. measures required to take into account new techniques in data acquisition, processing and management, and production techniques in hydrography;
 - f. measures leading to increased Hydrographic Office efficiency.
- 1.5 Follow up actions in response to specific requests from the International Hydrographic Conference/Assembly or other international and intergovernmental organisations should be evaluated in light of paragraph 1.4 above unless specifically identified as urgent matters.

General remarks

- 1.6 When setting priorities, certain flexibility should be provided to allow for initiatives that could not be foreseen.
- 1.7 Once a decision has been made on the basis of the above for a new work item to be included in the work plan of HSSC and its subordinate bodies, an appropriate target completion date should be established, taking into

account the urgency of the matter concerned.

- 1.8 In general, proposals for new work items as well as the revised work plans presented by Chairs of subordinate bodies as part of their annual reports should include a proposed priority for each work item, based on the guidelines above.
- 1.9 Wherever possible, proposed priorities for work items will be considered ahead of a meeting by a “Chair Group” comprising Chair, Vice-Chair, Secretary and all available Chairs of subordinate bodies. Final endorsement of work item priorities will rest with HSSC and be considered at the respective meeting.

2. HSSC RELEVANT ELEMENTS OF IHO WORK PROGRAMME 2020-2021

See Programme 2 in the [IHO Work Programme 2023](#) and IHO Proposed [IHO Work Programme 2024](#).

3. S-100WG WORK PLAN 2023-2024

Tasks

A	Maintain and extend S-100 "IHO Universal Hydrographic Data Model" (IHO Task 2.3.2)
B	Maintain and extend S-99 "Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry" (IHO Task 2.3.3)
C	Maintain and extend the S-100 GI Registry (IHO Task 2.3.1)
D	Supervise/Advise and support the development and maintenance of S-100-based product specifications (IHO Task 2.3.5)
E	Monitor the development of other related international standards (IHO Task 2.1)
F	Provide outreach and technical assistance regarding the implementation of S-100 (IHO Task 2.3.5)
G	Maintain the S-100 section of the IHO website (IHO Task 2.3)
H	Conduct the 2023 and 2024 meetings of the S-100WG and its sub-group(s) and project team(s) (IHO Task 2.1)

Work items

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
A.1	Maintain and Extend S-100	H		2010	Permanent	O	Julia Powell (NOAA)	S-100	Edition 5.1.0 submitted in 2023. Will proceed with corrections and clarifications until 2026.
A.2	Develop and Extend of S-98 Interoperability Specification	H		2015	Permanent	O	Julia Powell (NOAA)		Target for Edition 2.0.0 in 2024
A.3	Develop and Monitor the protection scheme (S-63 equivalent component, S-100 Part 15) of S-100 based-products	M		2016	Permanent	O	Jonathan Pritchard (IIC) Robert Sandvik (Primar)		
A.4	Develop and Extend S-97 Guidebook for developing S-100 Product Specifications	M		2018	Permanent	O	Julia Powell		
A.5	Develop and Maintain S-164 Test Data Sets for S-100 and ECDIS Type Approval	H	HSSC14	2020	Permanent	P	Julia Powell (NOAA)	S-100/S-1xx	Edition 1.0.0 submitted for HSSC15 (2023). Targeting late 2024 for edition 2.0.0
A.6	Develop the S-100 Validation Rules	H		2021	Permanent	O	Julia Powell (US)		

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
B.2	Establish and maintain expert group for the hydro domain: -	M		2016	Permanent	P	Julia Powell (US)		Action HSSC8/14 (membership and TORs)
C.1	Maintain and Extend the S-100 GI Register in alignment with S-100 (includes Portrayal)	H		2015	Permanent	O	Yong Baek (IHO Sec.) Iji Kim (KHOA)		Improvement to be aligned with S-100 Ed.5.0.0 Edition 5.1.0 does not have extensions
C.2	Develop and Maintain the S-100 Feature Catalogue Builder	H		2015	Permanent	O	Yong Baek (IHO Sec.) Iji Kim (KHOA)		Improvement to be aligned with S-100 Ed.5.0.0 Edition 5.1.0 does not have extensions
C.3	Develop and Maintain the S-100 Portrayal Catalogue Builder	H		2015	Permanent	O	Yong Baek (IHO Sec.) Iji Kim (KHOA)		Improvement to be aligned with S-100 Ed.5.0.0 Edition 5.1.0 does not have extensions
C.4	Develop and Maintain the S-100 Open Online Platform			2022	Permanent	O	Iji Kim (KHOA)		

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
D.3	Develop Edition 2.0.0 of S-101	H		2015	2023/2024	O	Tom Richardson (IC-ENC)		Operational Edition of S-101 will be at 2.0.0
D.4	Monitor the implementation of the S-101 ENC product specification (post Edition 2.0.0)	H		2015	Permanent	P	Julia Powell (NOAA)		Post 2.0.0 this work item moves to ENCWG
D.5	Develop and Maintain an S-100/S-101 Test Strategy and Test Bed	H		2013	Permanent	O	Julia Powell (NOAA)		
D.6	Develop and Maintain S-102 Bathymetric Content Specification.	H		2014	2026	P	Lawrence Haselmaier (NGA)		Edition 3.0.0 will be the operational Edition, Targeted for late 2024.
D.7	Develop and maintain S-129 Product Specification for Underkeel Clearance Management (UKCM) Information.	M		2016	2024	P	Jason Rhee (OMC)		Decision HSSC8/17 Edition 2.0.0 will be the operational edition
D.8	Develop S-121 Product Specification for Maritime Limits and Boundaries	M		2016	2026	O	Mark Alcock (Geoscience Australia)		Edition 1.0.0 published in October 2019. Currently in the testing phase. Further development on hold due to resources for primary S-100 based product specifications.

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
D.9	Develop Dual Fuel concept of S-100 ECDIS	H		2020	Ongoing	O	Julia Powell(NOAA)		
E.1	Monitor the development of other related international standards and other S-100 based products out of the IHO remit	M			Permanent	O	Julia Powell (NOAA)		
E.2	Monitor and coordinate interactions with OGC and IOGP, to ensure proper harmonization in the development of standards.	M		2016	Permanent	P			Standards such as IOGP SSDM SeabedML (Action HSSC6/37)
E.3	Monitor the development of the IMO guidance on maritime cyber security and advice on possible future actions	L		2016	Permanent	O	Hannu Peipponen (IEC)		
F.1	Liaise with IHO subsidiary bodies and subordinate organs, e.g. WWNWS-SC, NIPWG, ENCWG, SCUFN, etc.	H			Permanent	O	Julia Powell (NOAA)		Establish joint project teams as required

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
F.2	Liaise with non-IHO constituents, e.g. IALA E-nav Committee, IEHC, JCOMM Expert Teams, DGIWG, ISO, ICPC, marine navigation and GIS industry, etc.	H		2004	Permanent	O	Julia Powell (NOAA)		Clarification of the relations between IALA and IHO product specifications (e.g. sector lights modelling, encoding and portrayal in S-101 and S-201) Actions HSSC8/58, HSSC8/66
G.1	Maintain the S-100 section of the IHO website	H		2003	Permanent	O	Yong Baek (IHO Sec.)		

Meetings (Task H)

Date	Location	Activity
January 2022	Monaco	S-100WG-6
December 2022	Monaco	S-100WG-7
March 2023	Seoul, Republic of Korea	S-100 TSM-9
November 2023	Singapore	S-100WG-8

Chair: Julia Powell, US (NOAA)
Vice Chair: Elizabeth Hahessy (Denmark), Iji Kim (ROK)
Secretary: Yong Baek, IHO Secretariat

Email: julia.powell@noaa.gov
Email: elihh@gst.dk, izzykim@korea.kr
Email: yong.baek@iho.int

4. NIPWG WORK PLAN 2023-24

Tasks

D	Maintain Publication S-12 “Standardization of List of Lights and Fog Signals” (IHO Task 2.8.1)
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F	Establish and monitor, in liaison with the S-100WG, the project teams required to specify and develop nautical information layers for use in ECDIS (IHO Task 2.3)
G	Develop high level specifications for a maritime services as defined by IMO in the context of e-navigation covering the provision of hydrographic services to mariners in accordance with the IMO e-navigation strategy implementation plan (IHO Task 2.5.2)
H	Develop a test and implementation plan for the development of the maritime services as defined by IMO (IHO Task 2.5.2)
I	Maintain IHO Resolutions in M-3 relating to Nautical Publications as required (IHO Task 2.1)
J	Liaise with other HSSC WGs and other IHO and international bodies (IHO Task 2.1.8)
K	Conduct the 2023 and 2024 meetings of the NIPWG and its sub-group(s) and project team(s) (IHO Task 2.1)

Work items

Work item	Title	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P – Planned O – Ongoing C – Completed S – Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
D.1	Monitor and assess proposals for amending S- 12	M	Next meeting	2014	Permanent	O	Chair Team	S-12	In close liaison with IALA; see J.5.1

Work item	Title	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P – Planned O – Ongoing C – Completed S – Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
F.1	Assess the progress and perspectives of developing S-100 product specifications for NP data and propose the way forward for consideration by HSSC	H	Next meeting	2015	Permanent	O	Chair Team		To be considered in the context of the IMO e-navigation strategy implementation. NIPWG to consider establishing one or more project team(s) in liaison with S-100WG as required (see J.3), in particular to continue the development of Product Specifications currently assigned to the NIPWG.
F.2	Investigate the interaction between S-100 based Nautical Publication products and ENC in ECDIS	H	Next meeting	2015	Permanent	O	Chair Team		In close liaison with the S-100 WG Encourage national testbeds.
F.3	Model the NP data where required.	H	Next meeting	2004	Permanent	O	Chair Team		S-100 related. To be included in Hydro domain of the FCD Register.
F.4	Review of objects and attributes.	H	Next meeting	2004	Permanent	O	Raphael Malyankar / Chair Team		S-100 related. Incorporate in GI Registry if

Work item	Title	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P – Planned O – Ongoing C – Completed S – Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
F.8.1	Develop S-1xx Nautical Information Product Specification								
F.8.1.3	For Marine Aids to Navigation (AtoN)	L	Next meeting	2013	2023	O	Sewoong Oh	S-125	In progress. IALA developing draft, see J.5.1
F.8.1.4	For Marine Physical Environment	L				S	Chair Team	S-126	No task group lead identified
F.8.1.6	For Catalogue of nautical products	H	Next meeting	2016	2024	O	Izzy Kim	S-128	In progress. Development continued by KHOA.
F.8.1.7	For Marine Harbour Infrastructure	H	Next meeting	2020	2023	O	Sarah Rahr	S-131	Seeking approval to release edition 1.0.0 at HSSC 15. Ongoing development in relation to S-131 database project.
F.8.2	Draft Data Classification and Encoding Guides								Document for NPs similar to: Use of the Object Catalogue.
F.8.2.3	For Marine Aids to Navigation (AtoN)	L	Next meeting	2013	2023	O	Sewoong Oh	S-125	In progress. IALA developing draft, see J.5.1
F.8.2.4	For Marine Physical Environment	L				S	Chair Team	S-126	No task group lead identified
F.8.2.6	For Catalogue of nautical products	H	Next meeting	2016	2024	O	Izzy Kim	S-128	In progress.

Work item	Title	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P – Planned O – Ongoing C – Completed S – Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
									Development continued by KHOA.
F.8.2.7	For Marine Harbour Infrastructure	H	Next meeting	2020	2023	O	Sarah Rahr	S-131	Seeking approval to release edition 1.0.0 at HSSC 15. Ongoing development in relation to S-131 database project.
F.8.3	Monitor and Maintain NIPWG Product Specifications								
F.8.3.1	For Marine Protected Areas	M	Next meeting	2023	2024	O	Jonathan Pritchard	S-122	In progress. Edition 2.0 in development.
F.8.3.2	For Marine Radio Services	M	Next meeting	2022	2024	O	Bridget Gagné	S-123	In progress. Edition 2.0 in development.
F.8.3.5	For Marine Traffic Management	M	Next Meeting	2022	2024	O	Ed Kuwalek	S-127	In progress. Edition 2.0 in development.
G.1	Monitor the requirements for, and provision of, nautical information in e-navigation testbeds. Produce NP1 sample	M				O	Mike Kushla		According to the tasks assigned by HSSC4. Collection of information to be modelled.

Work item	Title	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P – Planned O – Ongoing C – Completed S – Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
	data sets.								
G.3	Rules and guidelines for displaying nautical information in ECDIS and in maritime services as defined by IMO								
G.3.1	Develop basic display principles for NP data intended for use in ECDIS (NP3)	M		2008		O	Chair Team		Close co-operation with NCWG and S-100WG required. Interoperability Spec to be considered.
G.3.2	Monitor and contribute to the development of IMO guidelines showing how navigation information received by communications equipment can be displayed in a harmonized way and what equipment functionality is necessary.	M		2015	Permanent	O	Stefan Engström		NIPWG has a permanent rep with the EGDH. e-nav IMO Strategy Implementation Plan, Task T13 (HSSC6-07.1A refers) Interim guidelines released by IMO. Continue to monitor development.

Work item	Title	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P – Planned O – Ongoing C – Completed S – Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
I.1	Maintain and extend resolutions in M-3 relating to Nautical Publications.	M	Next meeting	2012	Permanent	O	Chair Team	M-3	A review is required due for the harmonization of M-3 information and potential Prod Specs content.
J.3	Liaise with other HSSC WG	M		2004	Permanent	O	Chair Team		
J.3.1	Liaise with the NCWG	M			Permanent	O	Chair Team		Establish joint project teams as required and endorsed by HSSC.
J.3.2	Liaise with the ENCWG	L			Permanent	O	Chair Team		
J.3.3	Liaise with the S-100WG	H			Permanent	O	Chair Team		Establish joint project teams as required and endorsed by HSSC.
J.4	Liaise with IRCC								
J.4.1	Liaise with WWNWS Sub-Committee							S-124	Monitor developments of S-124 Project Team.
J.5	Liaise with other international bodies which contribute to nautical information	H		2015	Permanent	O	Chair Team		
J.5.1	Liaise with IALA	H		2013	Permanent	O	Chair Team		IALA ARM and ENAV Committees.

Work item	Title	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P – Planned O – Ongoing C – Completed S – Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
J.5.2	Liaise with International Harbor Masters' Association (IHMA)	M		2015	Permanent	O	Chair Team		
J.5.3	Liaise with International Cable Protection Committee (ICPC)	L		2016	Permanent	O	Chair/Sec NIPWG		

Meetings (Task K)

Date	Location	Activity
Sept 2023	Monaco	NIPWG10
Sept 2024	Poland (tbc)	NIPWG11
Sept 2025		NIPWG12

Chair: Eivind Mong, Canadian Coast Guard, CA

Email Eivind.Mong@dfo-mpo.gc.ca

Vice Chair: Stefan Engström, Traficom, FI

Email: Stefan.engstrom@traficom.fi

Secretary: James Weston, UKHO, UK

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Top three work items:

- Develop S-128 (Catalogue of Nautical Products) product specification
- Continue to develop all S-1xx nautical information product specifications
- Coordinate the IHO contributions to the definition and harmonisation of maritime services as defined by IMO within the remit of IHO

5. ENCWG WORK PLAN 2022-23

Tasks

A	Maintain S-52 “Specifications for Chart Content and Display Aspects of ECDIS” and its associated “Presentation Library” (IHO Task 2.4.1)
B	Maintain S-57 “IHO Transfer Standard for Digital Hydrographic Data”, including ENC Product Specification (IHO Task 2.4.2)
C	Maintain S-58 “Recommended ENC validation checks” (IHO Task 2.4.3)
D	Maintain S-61 “Product Specification for Raster Navigational Charts” (IHO Task 2.4.4)
E	Maintain S-64 “IHO Test Data Sets for ECDIS” (IHO Task 2.4.6)
F	Maintain S-65 “ENC Production, Maintenance and Distribution Guidance” (IHO Task 2.4.7)
G	Assess the impact of other IHO standards on S-52 display specifications (IHO Task 2.4.1)
H	Liaise with the NIPWG and the NCWG (IHO Task 2.1)
I	Maintain the ENC production and portrayal sections of the IHO website (IHO Task 2.4)
J	Conduct the 2022 and 2023 meetings of ENCWG and its sub-group(s) and project team(s) (IHO Task 2.1)
K	Maintain S-66 “Facts about electronic charts and carriage requirements – (IHO Task 2.4.8)
L	Consider the development of high density contour lines related to ENCs (IHO Task 2.4)
M	Maintain and monitor the existing S-63 standard (IHO Task 2.4.5)
N	Develop IHO Cyber Security Guideline

Work items

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
A.1	Maintain S-52 - Specifications for Chart Content and Display Aspects of ECDIS	H	Next meeting		Permanent	O	Chair/Sec ENCWG	S-57	
A.2	Resolve any problems or errors identified in the current editions of S-52 Presentation Library and S-64 ENC Test Datasets	H			Permanent	O	Chair/Sec ENCWG	S-57, S-64	Generally OEMs going through type approval with ECDIS will identify areas for clarification or correction
B.1	Maintain S-57 "IHO Transfer Standard for Digital Hydrographic Data, including ENC Product Specification"	H			Permanent	O	Chair/Sec ENCWG	S-52, S-58	
B.2	Resolve any problems or errors identified in the current edition of S-57	H			Permanent	O	Chair ENCWG	S-57	
B.4	Maintain the ENC portrayal sections of the IHO website.	M			Permanent	O	Chair/Sec ENCWG		

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
B.5	S-57 to S-101 Conversion. Improving encoding rules with additional attribution to support automated conversion tools	H		Oct 2020		C	Christian Mouden Jonathan Pritchard	S-57 UOC	Edition 1.0 added to S-65 as Annex B
C.1	Resolve any problems or errors identified in the current edition of S-58	H			Permanent	O	Richard Fowle		
C.2	Monitor the implementation of the new edition of S-58 and keep the recommended checks up to date	H		Oct-2020		C	Richard Fowle	S-57	New work item, HSSC 12 approved NE of S-58 Edition 7.0.0 ready for publication
E.1	Resolve any problems or errors identified in the current edition of S-64	H			Permanent	O	Chair/Sec ENCWG		
E.2	Develop a new Edition of S-64	H		May 2022	2023	O		S-64	Objective to include additional tests for skin of the earth features
F.1	Monitor and assess proposals for amending S-65	L			Permanent	O	Chair/Sec ENCWG		

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
G.1	Liaise with IEC TC80 to ensure that future editions of IEC 61174 are compatible with standards maintained by ENCWG	M			Permanent	O	Chair/Sec ENCWG	S-52, IEC 61174	
H.1	Liaise with the NIPWG and the NCWG	H			Permanent	O			
I.1	Maintain the ENC production and portrayal sections of the IHO website, and support FAQ and Encoding Bulletins	H			Permanent	O	Chair / IHO Sec		
K.1	Maintain S-66 Publication				Permanent	O	Chair / IHO Sec		
M.1	Maintain and monitor the existing S-63 Data Protection Scheme	M		2016	Permanent	O	Chair, RENCs, Industry and IHO Sec.	S-63	
M.2	Assessment of S-63 impact study and potential production of a new edition of S-63.	H		2019	2021	C	Chair, RENCs, Industry and IHO Sec.	S-63	Closed HSSC 13 agreed to draft new Cyber security guideline HSSC13/31 refers
N.1	Develop IHO Cyber Security Guideline	M		2021	2023		Chair, OEMs	S-63	Proposed inclusion in S-67

Meetings (Task J)

Date	Location	Activity
15 - 16 July 2020	VTC	ENCWG-5
15-17 June 2021	VTC	ENCWG-6
21-25 November 2022	Wellington, New Zealand	ENCWG-7

Chair: Thomas Mellor, UK

Vice Chair: Richard Fowle, DK

Secretary: Yong Baek, IHO Sec.

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6. HYDROGRAPHIC SURVEYS WORKING GROUP WORK PLAN 2023-24

A	Conduct at least annual meetings of HSWG and its sub-group(s) and project team(s) (IHO Tasks 2.1.2.9).
B	Maintain and promote IHO publication S-44 – <i>Standards for Hydrographic Surveys</i> – preparing and proposing revisions and amendments to reflect changes in the demands of hydrographic data users, particularly those pertaining to data quality and standards.
C	Update, maintain, and promote IHO publication C-13 – <i>IHO Manual on Hydrography</i> – to reflect current techniques, methodologies and survey systems, in particular to ensure harmonization with the standards articulated in S-44.
D	Develop and promote Satellite Derived Bathymetry (SDB) best practice and identify future development priorities.
E	Maintain close liaison with other HSSC and IRCC working groups, in particular the work of the Data Quality Working Group (DQWG) to meet the presentation/visualization requirements of nautical data to the maritime customer, and the CBSC to support the educational and best practice elements.
F	Identify new systems, technologies and methodologies and exchange experiences, best practice and challenges amongst member states in line with the IHO objectives.
G	Act as a focal point for hydrographic surveys industry engagement with the IHO.
H	Liaise with other relevant IHO Working Groups to promote harmonization across IHO standards.

Work items

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs /Standard	Remarks
A-1	Organise and conduct HSWG5 meeting	H	Agree location / date / send invitation	Jan 2023	Oct 2023	O	Chair HSWGSec		One offer to host received from Indonesia. Suggested date WC 2 nd – 5 th Oct 2023
B-1	Review S-44 Edition 6.1.0	M	Prepare list of proposed updates	Jan 2022	Sept 2023	C	All		Chair team to develop proposal for WG to review

B-2	Prepare next S-44 edition v 6.2 or 6.1.1	M	Implement updates	Sept 2023	March 2024	C	S-44 editorial board		
B-3	Develop S-44 v6.1 promotional material	M	Consolidate and share material	April 2022	On going	O	Vice Chair HSWG		
B-4	Develop S-44 education material	M	Consolidate and share material	April 2022	On going	O	Vice Chair HSWG		
B-5	Identify translation opportunities for S-44	L	Supply translated material to IHO	April 2022	On going	O	Vice Chair HSWG		Dependency: Member states to supply translated documents
B-6	Monitor S-44 uptake worldwide	H	IHO Secretariat accept action to set up IHO download monitoring system	May 2022	On going	O	IHO		IHO Strategic Plan 2021-2026 (Goal2 – Target 2.2.2 – page 7) Dependencies: -IHO website metrics available -New edition of S-44 available
C-1	Review C-13 Edition 1.0.0	H	Initial meeting of project team (MHPT)	Oct 2022	Sept 2023	O	Chair MHPT		Prepare draft to next meeting: MHPT-5
C-2	Prepare next C-13 edition	H	Compile updates and change recommendations	Oct 2023	Feb 2025	P	Chair MHPT		Dependency: Format to be agreed by entire HSWG and IHO. Review of Progress at MHPT-6 Complete by MHPT-8
C-3	Develop C-13 promotional material	L	Consolidate and share material	Aug 2025	On going	P	Chair MHPT		
C-4	Develop C-13 education material	L	Consolidate and share material	Aug 2025	On going	P	Chair MHPT		
C-5	Identify translation opportunities for C-13	L	Supply translated material to IHO	2026	On going	P	Chair MHPT		
D-1	Develop SDB best practice guidelines	M	SDBPT to draft best practice	July 2021	March 2023	O	Chair SDBPT		

			guidelines						
D-2	Identify future development priorities	L	Prioritization of technological aspects which shall be addressed by SDBBWG	July 2021	October 2022	P	Chair SDBPT		
E	Maintain liaison with HSSC and IRCC subordinate bodies – DQWG, HDWG, TWCWG, S100WG	H	Initial meetings with WGs.	July 2021	On going	O	Chair group to facilitate		Liaison for each WG established at HSWG1
F-1	Attend relevant industry events	M	Share event dates	2021	On going	O	All		Send IHO event dates
F-2	Develop new system/technology presentation material and supporting documents	M	Provide briefings to HSWG	2021	On going	O	All		
G	Attend and represent HSWG at relevant industry fora	M	Provide briefings to HSWG	2021	On going	O	All		
H	Identify areas of overlap and potential conflicts across standards	H	Provide a list of potential standards conflicts	July 2021	On going	O	Chair group		Approach S-100 and DQWG on best method to collaborate to address potential conflicts

Meetings

Date	Location	Activity
29 Feb – 2 March 2023	virtual	HSWG4
2 – 5 October 2023	Lombok, Indonesia	HSWG5

HSWG Chair: David Parker
 HSWG Vice-Chair: Megan Greenaway
 HSWG Secretary: Carlos Videira Marques

Email: David.Parker@ukho.gov.uk
 Email: Megan.Greenaway@noaa.gov
 Email: Videira.Marques@hidrografico.pt

7. TWCWG WORK PLAN 2023-24

Objective

- a) To monitor developments related to tidal and water level observation, analysis and prediction and other related information including vertical and horizontal datums;
- b) To develop and maintain the relevant IHO standards, specifications and publications for which it is responsible in liaison with the relevant IHO bodies and non-IHO entities;
- c) To develop standards for the delivery and presentation of navigationally relevant current information; and
- d) To provide technical advice and coordination on matters related to tides, water levels, currents and vertical datum.

Tasks

A	Maintain the list of standard tidal constituents (IHO Task 2.8.4)
B	Compare the tidal predictions generated as a result of analysis of a common data set using different analysis software
D	Develop, maintain and extend a Product Specification for Surface Currents in ECDIS (S-111) (IHO Task 2.3.4)
E	Develop, maintain and extend a Product specification for Water Level Information in ECDIS (S-104) (IHO Task 2.3.4)
F	Liaise with S-100WG on water levels and currents themes relevant to ECDIS applications (IHO Task 2.3.5)
G	Liaise with industry experts on the development of Product Specifications for water levels and currents (IHO Task 2.5.1)
H	Prepare and maintain an inventory of water level gauges and current meters used by Member States and publish it on the IHO/TWCWG web site (IHO Task 2.8.5)
I	Review and maintain the Actual Tides and Currents On-Line links as published on the IHO TWCWG website (IHO Task 2.8.5)
J	Maintain and extend the relevant IHO standards, specifications and publications as required (IHO Tasks 2.8.4 and 2.1.8)
K	Conduct at least annual meetings of TWCWG and its sub-group(s) and project team(s) (IHO Tasks 2.1.2.7)
L	Develop and maintain material for course on Tides, Water Levels and Currents (IHO Task 3.3.9)
M	Review and maintain the List of Chart Datums (CD) in use by Member States (propose a new IHO Task 2.8.8)

Work items

Work item	Title	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
A.1	Maintain the list of standard tidal constituents	M		-	Permanent	O	Chris Jones* All		Review current list of published tidal constituents
B.1	Compare the tidal and tidal current predictions generated as a result of analysis of a common data set using different analysis software.	M		-	Permanent	O	Hilde Sande Borck * All		Select Common data set. Analyse using different software. Compute common set of predictions. Compare results.
B.2	Support and Contribute to the International Association for the Physical Sciences of the Oceans (IAPSO) Best Practice Study group on Tidal Analysis	M	As directed by IAPSO/TWCWG contact	2023	tbc	P	Hilde Sande Borck* Andreas Boesch Zarina Jayaswal Phil MacAulay Peter Stone Andrew Matthews (IAPSO/TWCWG Contact)		Engage with the Best Practice Study Group, co-ordinating tasks on behalf of TWCWG. Report back to, and enlist support from, TWCWG.

D.1	Develop and maintain a product specification for surface currents information in ECDIS (S-111)	H	Issue Edition 1.0.0	2013	2017 2018 2019	Ø C	See report TWCWG4: List of involved and active members:	S-100 S-98 M-3 IHO Resolutions	Joint project team is established as required. Liaise with S-100WG (see F.1) Liaise with industry experts (see G.1) Edition 1.2.0 (S-111) is aligned with S-100 Edition 5.0.0.
		H	Issue Edition 1.2.0	2021	2023	C	Greg Seroka* Thomas Hammarklint		
		H	Issue Edition 2.0.0	2023	2024	P	Gwenaële Jan, Phil MacAuley (Gilles Mercier & Maxime Carre) Raphael Malyankar Kwang nam HAN, Ronald Kuilman		
E.1	Develop and maintain a product specification for water levels information in ECDIS (S-104)	H	Develop draft Product Specifications (S-104) for water level information for surface navigation in S-100	2009	2017 2018 2019 2020	C	See report TWCWG4: List of involved and active members:	S-100 S-98 M-3 IHO Resolutions	Joint project team is established as required. Liaise with S-100WG (see F.1) Liaise with industry experts (see G.1)
		H	Issue Edition 1.0.0	2019	2021	C	Thomas Hammarklint		
		H	Issue Edition 1.1.0	2021	2023	C	Phil MacAuley		

		H	Issue Edition 2.0.0	2023	2024	P	Gilles Mercier Maxime Carre Raphael Malyankar Kwang nam HAN, Greg Seroka		Edition 1.1.0 (S-104) is aligned with S-100 Edition 5.0.0.
F.1	Liaise with S-100WG on water level and current matters relevant to ECDIS applications	H		-	Permanent	O	Chris Jones Zarina Jayaswal Raphael Malyankar Greg Seroka		Joint project team is established as required.
G.1	Liaise with industry experts on the development of product specifications for water levels and currents	H		-	Permanent	O	All		
H.1	Maintain an inventory of water level gauges and current meters used by Member States and publish it on the IHO/TWCWG web site.	H		-	Permanent	O	All		Initial inventory from TWCWG members available on IHO web site.
I.1	Review and maintain the Actual Tides and Currents On-Line links as published on the IHO/TWCWG website	L		-	Permanent	O	All		

J.1	Maintain and extend the relevant IHO standards, specifications and publications	M		-	Permanent	O	Chris Jones* Ruth Farre All	S-44 C-13 S-104 S-111	
J.2	Maintain IHO resolutions & Charting Specifications	H		-	Permanent	O	Ruth Farre* All	IHO Resolutions in M-3	Review the relevant Resolutions and Charting Specifications annually
L.1	Develop and maintain material for CB course on Tides and Tide gauges	H		-	Permanent	O	Ruth Farre* Peter Stone Zarina Jayaswal Gwenaële Jan Cesar Borba		Adapt currently available course material to create a course suitable for delivery in support of CBSC requests
M.1	Review and maintain the List of Chart Datums (CD) in use by Member States	L		-	Permanent	O	Chris Jones* Sam Harper All		Maintain a reference list of vertical Chart Datums in use globally by Hydrographic Offices relating to their national charting / tidal & water level products and services.

Meetings (Task N)

Date	Location	Activity
5-7 April 2022	Remote VTC	TWCWG-6
28 February – 2 March 2023	Remote VTC	TWCWG-7

20-23 February 2024 (tbc)	Monaco, IHO	TWCWG-8
19-22 November 2024 (tbc)	tbc	TWCWG-9

Chair: Chris Jones (UK)

Vice Chair: Ruth Farre (South Africa)

Secretary: Sam Harper (IHO Sec.)

Email: christopher.jones@ukho.gov.uk

Email: ruth.farre@sanavy.co.za ; hydrosan@iafrica.com

Email: samuel.harper@iho.int

8. **NCWG WORK PLAN 2022-23**

Tasks

A	Maintain and extend Publication S-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts' (IHO Task 2.2.1)
B	Maintain and extend Publication S-11 Part A 'Guidance for the Preparation and Maintenance of INT Chart schemes' (IHO Task 2.2.2)
D	Development of new (and revised) symbology (IHO Task 2.2.1)
E	Maintenance of S-4 supplementary publications INT 1, 2 & 3 (IHO Task 2.2.1)
G	Conduct meetings of NCWG (IHO Task 2.1)
H	Provide technical assistance to other IHO working groups and support regarding the implementation of S-100 (IHO Task 2.3)

Work items

* Allowing for approval via HSSC (in accordance with Resolution 2/2007) before MS and publication.

No	Work item	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P-Planned O-Ongoing C-Completed	Contact Person(s)	Affected Pubs/Standard	Remarks
A28	Future of S-4	H	NCWG6 – discuss future of S-4 and agree work tasks	2020	2022	O	Chair NCWG	S-4	NCWG3 Agenda 7.4: waiting on progress with A16 NCWG 6 identified no need to restructure S-4, but welcomed any proposals to improve automation and machine readability
E1	Maintain official INT 1s					O	UK: Sam Lerigo FR: S Guillou ES: J. Bustamante	INT 1	UK INT 1 edition 8 published November 2020 ES INT 1 edition 6 published April 2018 FR INT 1 edition 7 published in 2019
E9	Develop new section V for INT1 for 'data quality'	M	Draft under consideration by INT1 subWG	2014	2021	O	Chair NCWG INT1 subWG	INT1	CSPCWG10 Action 35 NCWG3 Agenda 11.2: Transferred to UK NCWG4 – Action 4/18 ongoing
E10	Symbol library	L	UK to confirm freedom to use UK's symbol set	2016		O	UK (N Rodwell) US (C Harmon)	S-4, INT1	NCWG Actions 45, 46 NCWG3 Agenda 3: Not required to progress at this time.
E11	Develop baseline symbology to support automated chart production	H	NCWG6 – discuss and agree work tasks	2020		O		INT1, S-4	New proposal by NCWG at HSSC12 Baseline Symbology PT established

Meetings (Task G)

Date	Location	Activity
3-4 November 2020	VTC	NCWG6
9-12 November 2021	VTC	NCWG7
15-18 November 2022	Wollogong, Australia	NCWG8

Chairman: Mikko Hovi (FI)

Email: mikko.hovi@traficom.fi

Vice Chairman: Nick Rodwell (UK)

Email: Nick.Rodwell@UKHO.gov.uk

Secretary: Vacant

Email:

9. DQWG WORK PLAN 2023-24

Tasks

- A. Develop and maintain a data quality checklist for product specification developers (IHO Task 2.8)
- B. Periodically review S-100 based product specifications to ensure the data quality aspects have been taken into consideration and provide input papers for WGs and PTs consideration if deemed necessary (IHO Task 2.3)
- C. Monitor periodically developments of ISO and other international standards regarding quality information, and advise accordingly (IHO Task 2.8)
- D. Provide guidance on data quality aspects to hydrographic offices, in particular to ensure harmonized implementation (IHO Task 2.1 and 2.5.1)
- E. Provide data quality educational material for the use of mariners (IHO Task 2.4.9)
- F. Review appropriate methodology for the display of quality information to product specification developers (IHO Task 2.1)
- G. Propose new data quality topics for consideration by HSSC (IHO Task 2.8)

Work Items

Task	Work Item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-Completed	Contact Person	Affected Pubs/Standard	Remarks
A.1	Development of the DQ validation checks	H	DQWG19	2023	2024	O	Chair	S-100	DQWG18-08.1A
B.1	Development of a minimum standard for Data Validation in S-1xx based products.	H	S-101 Ed.2.0.0	2018	2024	O	Chair	S-1xx	None
B.2	Review S-1xx based PS (Ed.1.0.0 or higher)	H	DQWG19	2021	2024	O	Chair	S-1xx	DQWG 18-03.1A
B.3	Review S-1xx Feature Catalogues	M	S-101 Ed.2.0.0	2021	2024	O	Chair	S-1xx	DQWG18-05.1A
C.1	Review S-100 Part 4C.	H	Next Edition of S-100	2022	2024	O	Chair	S-100	DQWG15-04.4B
C.2	Review S-97 Part C.	H	DQWG19	2023	2024	O	Chair	S-97	DQWG18-06.2A
D.1	Provide guidance documentation how to populate CATZOC values.	H	DQWG19	2021	2024	O	Chair	S-101 DCEG	DQWG18-05.3A
E.1	merging S-66 and S-67 into a single IHO publication	H	DQWG19	2023	2023	O	chair	S-66, S-67	HSSC 14/40

G.1	Monitor development of autonomous shipping by the industry	M	DQWG19	2020	2024	O	Chair	S-101, S-102, S-104	None
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Meetings

Date	Location	Activity
8-11 February 2022	VTC	DQWG17
7-9 February 2023	Hybrid, Monaco	DQWG18
6-8 February 2024	China (dates and venue tbc)	DQWG19

Chair: Lingzhi Wu (China)

Vice-Chair: Vacant

Secretary: Scott Youngblut*

*Until DQWG-19 included.

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Email:

Email: scott.youngblut@dfo-mpo.gc.ca

10. HDWG/HDCG WORK PLAN 2023-2024

Tasks

A	Maintain and extend the definitions in the IHO S-32 Hydrographic Dictionary Registry (IHO Task 2.8.2)
B	Liaise with other IHO bodies preparing publications containing glossaries (IHO Task 2.8.2)
C	Liaise with other organizations developing dictionaries and/or glossaries (IHO Task 2.8.2)
D	Develop a digital structure and database application to support the IHO S-32 Hydrographic Dictionary Registry on-line version(IHO Task 2.8.2)
E	Establish ToRs and RoPS of HDCG (IHO Task 2.8.2)

Work items

Task	Work item	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs / Standard	Remarks
A.1	Endorse the Ed. 6.0.0 of S-32 "IHO Hydrographic Dictionary" and submit to HSSC16.	H		2023	2024	O	HDWG Chair	S-32	
A.2	Maintain and distribute the IHO S-32 Hydrographic Dictionary	H		2023	Permanent	O	HDWG Chair	S-32	
C.1	Liaise with Member States who have developed a national HD	H		2023	2024	P	HDWG Chair		China, Indonesia, Spain
C.2	Update the list of countries who wish to develop their own national HD	M		2023	2024				Oman, Japan
A.2	Update the HD French national version	L		2023	?	P	Jean Laporte	S-32	Only if confirmed by Shom

Task	Work item	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs / Standard	Remarks
D	Harmonize the S-32 IHO Hydrographic Dictionary database with the IHO GI Registry through the Concept Registry Domain Control Body	H		2020	2024	O	HDWG Chair	S-32	In progress, in liaison with Jeff Wooton, the S-100 GI Registry Manager and Yong Baek
E	Prepare the necessary steps to move the HDWG to HDCG	H		2023	2024	P	HDWG Chair	S-32	

Meetings (IHO WP task 3.1.8)

Date	Location	Activity
27-28 November 2018	IHO, Monaco	HDWG2
3 February 2022	HD/GI Registry Workshop	VTC
26 April 2022	Discussion on Hydrospatial	VTC
Before May 2024, TBC.	Europe, TBC.	HDWG in conjunction with the GI Registry Team Meeting

Chair: Lyu Yu Xiao, China
Vice-Chair: Vacant
Secretary: Samuel Harper, IHO Sec.

Email: 38893531@qq.com
Email:
Email: samuel.harper@iho.int

11. ABLOS WORK PLAN 2023-24

Tasks

A	Organise the 11 th ABLOS Conference in 2023 (IHO Task 2.7.1)
B	Maintain IHO Publication C-51 “Technical Aspects of the Law of the Sea (TALOS) Manual” (IHO Task 2.7.2)
C	Deliver a standard training program on the hydrographic aspects of maritime delimitation (IHO Task 3.3.11)
D	Provide advice and guidance on the technical aspect of the Law of the Sea to relevant organizations, bodies and Member States (IHO Task 2.7.2)
E	Organize and prepare ABLOS business meetings in 2023 and 2024 (IHO Task 2.1.2.8)

Work items

Task	Work item	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs / Standard	Remarks
A1	Organise 11 th ABLOS Conference	H	Begin advertising	2022	2023	O	All members of ABLOS through Committee	N/A	
			Identify and invite key note speaker	2022	2023	O			
			Attract presentation abstracts	2022	2023	O			
A2	Conference support and outreach	H	Develop and maintain ABLOS website	2019	On going	O	Niels Andersen		

Task	Work item	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs / Standard	Remarks
B1	Prepare draft 7 th Edition of C-51 (TALOS Manual) for adoption by Member States	H	Review contents of chapters and identify areas requiring revision	2021	2023	O	John Ells*	IHO Publication C-51	
			Update by individual chapter				Editorial Board		
		H		2021	2023	O			
		H	Develop draft revised chapters and seek ABLOS consensus	2021	2023	P			
		M	Submit to HSSC15 for endorsement and circulation to IHO MS and AIG EC for approval and adoption	2024	2024	P		IHO Res. 2/2007, as amended	
	Progress French and Spanish translations								
		M		2024	2025				

Task	Work item	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs / Standard	Remarks
C1	Deliver standard training programmes for the CBSC	H	Develop and maintain core training material	2011	Continuous	O	Fiona Bloor* Juan Carlos Báez Soto	IHO Publication C-51	No workshops planned in 2023 in the CBSC Work Plan.
D1	Provide advice and guidance on the technical aspect of the Law of the Sea	H		Continuous		O	All members of ABLOS through the Chair		

Meetings (Tasks A & E)

Date	Location	Activity
4 - 6 October 2021	VTC	ABLOS 28 and Webinar
4 - 6 October 2022	Hybrid, Monaco	ABLOS 29
10 – 13 October 2023	IHO Monaco	ABLOS 30 and 11th ABLOS Conference

Chair: Dr Juan-Carlos Báez

Email: jcbaez@csn.uchile.cl

Vice-Chair: Fiona Bloor

Email: fiona.bloor@ukho.gov.uk

Secretary: Samuel Harper

Email: Samuel.harper@iho.int

12. COORDINATION WORK PLAN 2023-24

Tasks

A	As required, establish Working Groups to fulfil the Committee Work Plan, monitor their work and review annually the continuing need for each Working Group previously established by the Committee (HSSC TOR)
B	Support the IHO Secretariat to implement the planning mechanism annually and at the end of each 3-year cycle (including preparation of next session of the IHO Assembly)
C	Organize, prepare and report meetings of HSSC working groups (IHO Task 2.1.2)
D	Conduct the 2022 and 2023 meetings of HSSC (IHO Task 2.1.1)
E	Participate in the governance activities of the IHO - Singapore Innovation and Technology Laboratory

Work items

Work item	Task	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks
A3	Establish the MASS Project Team	M	HSSC-14		HSSC-15	O			IHO CL 23/2021 refers
A4	Establish the S-130 Project Team	M	HSSC-14			O			IHO CL 19/2021 and CL 33/2021 refer
B2	Contribute to the development of the S-100 Implementation Strategy	H	C-5	2018	2024	O			Amendments and draft proposal to an Annex B is submitted to C-5.
B3	Implement the Revised Strategic Plan	M	C-5	2020	2026	O			Allocation of SPIs to WGs and 2026 targets estimate. Proposed metrics to measure these SPIs is submitted to C-5.
B4	Consider the need to update the lists in Appendices 1 and 2 of IHO Resolution 2/2007	L	HSSC-15	2022	Permanent	P		M-3	Action HSSC14/101 refers
E1	Contribute to the activities of the Governing Board	M	A-3	2021	Permanent	O	DTech/ADDT		

Meetings (Task D)

Date	Location	Activity
9 Dec 2020	VTC	Outcome of A-2 and C-4

HSSC Chair: Magnus Wallhagen, Sweden

HSCC Vice Chair: Nathalie Leidinger, France

HSSC Secretary: John Nyberg, IHO Sec.

HSSC Assistant Secretary: Yves Guillam, IHO Sec.

Email: Magnus.Wallhagen@Sjofartsverket.se

Email: nathalie.leidinger@shom.fr

Email: dtech@iho.int

Email: adcs@iho.int

13. **MASS PROJECT TEAM WORK PLAN 2022-23**

To be completed

Tasks

A	Identify and prioritize MASS navigation requirements (MASS PT TOR)
B	Analyse their impacts on current hydrographic standards and services
C	Develop a set of recommendations/issues to be addressed by existing working groups
D	Conduct the 2022 and 2023 meetings of MASS PT

Work items

Work item	Task	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed S-Superseded	Contact Person(s)	Related Pubs / Standard	Remarks

Meetings (Task D)

Date	Location	Activity
10 Dec 2021	VTC	MASS PT1
25 February 2022	VTC	MASS PT2
9 March 2022	VTC	MASS PT3

MASS PT Chair: Mark Casey, UK

Email: Mark.casey@ukho.gov.uk

MASS PT Vice-Chair: Sun Dongli, China
MASS PT Secretary: Annie Biron, Canada

Email: sundongli@shmsa.gov.cn
Email: yong.baek@iho.int

14. S-130 PROJECT TEAM WORK PLAN 2023-24

Tasks

A	Develop and maintain S-130 “Polygonal Demarcations of Global Sea Areas Product Specification” (IHO Task 2.3.4)
B	Produce and distribute S-130 dataset (IHO Task 2.3)
C	Maintain maintenance procedure and user/information manual (IHO Task 2.3)
D	Conduct the 2023-2025 meetings of S-130PT (IHO Task 2.1)

Work items

Task	Work Item	Priority	Milestones	Start Date	End Date	Status	Contact Person	Affected Pubs/Standard	Remarks
		H-high M-medium L-low				P-planned O-ongoing C-Completed			
A.1	Develop S-130 Product Specification Edition 1.0.0	H	HSSC 15	2022	2023	C	Britt Lonneville (VLIZ)		
A.2	Initial implementation S-130 Edition 1.0.0	M		2023	2023/2024	P	Britt Lonneville (VLIZ)		
A.3	Develop S-130 Product Specification Edition 2.0.0	H	HSSC 16	2023	2024	P	Britt Lonneville (VLIZ)		
B.1	Develop S-130 sample dataset	H		2023	2023/2024	O	Britt Lonneville (VLIZ)		
B.2	Initial test of S-130 sample dataset	M		2023	2023/2024	P	Britt Lonneville (VLIZ)		

B.3	Develop S-130 dataset	M	HSSC 17	2023/2024	2025	P	Britt Lonneville (VLIZ)		
D.1	Meetings S-130PT	M		2022	Ongoing	O	Britt Lonneville (VLIZ)		

Meetings (Task D)

Date	Location	Activity
13 June 2022	VTC	S-130PT3
TBD	VTC	S-130PT6

S-130PT Chair: Britt Lonneville, Belgium
S-130PT Vice Chair: Wu Lingzhi , China
S-130PT Secretary: Yong Baek, IHO Secretariat

Email: britt.lonneville@vliz.be
Email: 3511431@qq.com
Email: yong.baek@iho.int

15. **S-100 INFRASTRUCTURE CENTRE ESTABLISHMENT (S-100 ICE) PROJECT TEAM WORK PLAN 2023-24**

Tasks

To develop the management documents and operating plan for the proposed S-100 Infrastructure Center in particular:

A	Propose role, scope, function and governance of the S-100 Infrastructure Centre
B	Propose composition, identify financial considerations, and suggest working procedures
C	Propose location
D	Propose the timeline for the establishment of the Infrastructure Centre
E	Support the HSSC with the creation of documents required to submit the proposal to the IHO Council
F	Conduct the 2023 and 2024 meetings of the S-100 ICE PT

Work items

Task	Work Item	Priority	Milestones	Start Date	End Date	Status	Contact Person	Affected Pubs/Standard	Remarks
		H-high M-medium L-low				P-planned O-ongoing C-Completed			
A.1									
A.2									

Meetings (Task F)

Date	Location	Activity

S-100 ICE PT Chair:

Email:

S-100 ICE PT Vice Chair:

Email:

S-100 ICE PT Secretary:

Email:

16. **S-100 SECURITY SCHEME (S-100 SS) PROJECT TEAM WORK PLAN 2023-24**

Tasks

A	Develop the S-100 appointment and termination process for data servers, OEMs and ENDS service providers
B	Analyse the current IHO agreements to ensure they are legally binding and provide the IHO with guidance on termination if participants are deemed to have breached
C	Propose new agreements for the management of participants within the S-100 security scheme
D	Propose to HSSC a method to monitor agreements for breaches possibly through an annual inspection regime for participants within the S-100 and security scheme and creation of S-128 catalogue files by ENDS service providers
E	Conduct the 2023 and 2024 meetings of the S-100 SS PT

Work items

Task	Work Item	Priority	Milestones	Start Date	End Date	Status	Contact Person	Affected Pubs/Standard	Remarks
		H-high M-medium L-low				P-planned O-ongoing C-Completed			
A.1									
A.2									

Meetings (Task E)

Date	Location	Activity

S-100 SS PT Chair:

Email:

S-100 SS PT Vice Chair:

Email:

S-100 PT Secretary:

Email: