

DRAFT HSSC WORK PLAN 2014-2015

October 2013

Note: This draft WP has been compiled from the WG reports to HSSC-5, plus the ABLOS report. Decisions from HSSC-5 will be taken into account when compiling a consolidated WP 2014-2015. Changes to the previous edition (HSSC Work Plan 2013-2014) are highlighted in track change mode.

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.

Rationale:

The justification for the HSSC Work Plan is in conformance with the IHO Strategic Plan, and mainly related to the following elements of the IHO Work Programme – 2013-2017:

- Element 2.1 Technical Programme Coordination
- Element 2.2 Hydrographic Data Transfer Standards
- Element 2.3 Nautical Cartography
- Element 2.4 Digital Data Protection and Authentication
- Element 2.5 Data Quality
- Element 2.6 Nautical Publications
- Element 2.7 Tides and Datums
- Element 2.8 Digital Data Updating
- Element 2.9 Marine Spatial Data Infrastructures
- Element 2.10 Hydrographic Data Acquisition and Processing
- Element 2.11 Hydrographic Dictionary
- Element 2.12 Hydrographic Aspects of UNCLOS

Revisions:

Chairs of each working group, along with the HSSC Chair, will meet prior to each HSSC meeting to review progress, and to harmonize the work plan.

Approval:

Once revised, the work plan will be approved by the HSSC plenary at each annual meeting. WG Chairs will present an updated WP on the last day of HSSC meetings, incorporating the agreed changes discussed during that meeting. Completed work items should be removed from WPs after they have been reported at a subsequent HSSC meeting. A revised consolidated HSSC Work Plan (WP) incorporating all approved additional WP 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 Conferences.

Project Numbering:

Each task will be given a sequential number independent of related working group. 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 WG 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 programme 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 program?
 - 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 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 programme 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 programs raised by WG Chairs 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 Working Group Chairs. 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 2013-2017

All elements described below (taken from IHC XVIII document CONF.18/REP/01) relate to Programme 2 "Hydrographic Services and Standards", which *seeks to develop, maintain and extend technical standards, specifications and guidelines to enable the provision of standardised products and services that meet the requirements of mariners and other users of hydrographic information.*

Element 2.1 Technical Programme Coordination

Objective: To monitor technical developments, oversee the development of IHO technical standards, specifications and publications through the coordination and interaction of relevant IHO Working Groups, and to make recommendations to Member States.

Task 2.1.1	Conduct annual meetings of HSSC	2013-17
Task 2.1.2	Provide technical advice and guidance on IHO technical standards, specification and publications	2013-17

Element 2.2 Hydrographic Data Transfer Standards

Objective: To monitor developments related to transfer standards for digital hydrographic data, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

Task 2.2.1	Conduct annual and biennial meetings of relevant HSSC WGs dealing with hydrographic data transfer standards	2013-17
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Task 2.2.2	Maintain and extend the relevant IHO standards, specifications and publications, using contract support assistance as appropriate, including: - S-57 IHO Transfer Standard for Digital Hydrographic Data - S-100 IHO Universal Hydrographic Data Model - S-101 ENC Product Specification - S-102 Bathymetric Surface Product Specification - S-58 Recommended ENC Validation Checks - S-65 ENC Production Guidance - S-64 IHO Test Data Sets for ECDIS - S-61 Product Specification for Raster Navigational Charts - S-99 Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry - S-66 Facts about Electronic Charts and Carriage Requirements	2013-17	Contract support: 15K€ each year
Task 2.2.3	Develop and maintain as-yet undefined S-100-based Product Specifications	2013-14	
Task 2.2.4	Maintain and extend S-100 registry	2013-17	no significant IHO expense anticipated
Task 2.2.5	Provide outreach and technical assistance regarding transfer standards	2013-17	

Element 2.3 Nautical Cartography

Objective: To monitor developments related to nautical cartography for paper nautical charts and the colours, symbols and display rules used to show SENC information on ECDIS, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

Task 2.3.1	Conduct annual meetings of relevant HSSC WGs dealing with nautical cartography	2013-17	
Task 2.3.2	Maintain and extend the relevant IHO standards, specifications and publications, using contract support assistance as appropriate, including: - S-4 Chart Specifications of the IHO and Regulations for International (INT) Charts INT 1 - Symbols, Abbreviations and Terms used on Charts INT 2 - Borders, Graduations, Grids and Linear Scales INT 3 - Use of Symbols and Abbreviations - S-11 Part A - Guidance for the Preparation and Maintenance of INT Chart schemes - S-11 Part B - Catalogue of INT Charts - S-49 Standardization of Mariners' Routeing Guides - Digital data updating related elements of Appendix 1 to S-52 - Guidance on Updating the Electronic	2013-17	Contract support: 15K€ each year

Navigational Chart
 - S-52 and its accompanying Presentation Library -
 Specifications for Chart Content and Display Aspects
 of ECDIS
 - Portrayal related elements of S-101 - ENC Product
 Specification and other S-100-based Product
 Specifications

Element 2.4 Digital Data Protection and Authentication

Objective: To monitor developments related to data protection and data authentication, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

Task 2.4.1	Conduct annual meetings of relevant HSSC WG dealing with digital data protection and authentication	2013-17	
Task 2.4.2	Maintain and extend the relevant IHO standards, specifications and publications, including: - S-63 IHO Data Protection Scheme - Data protection and authentication related elements of S-100 - IHO Universal Hydrographic Data Model and - S-101 - ENC Product Specification	2013-17	no significant IHO expense anticipated

Element 2.5 Data Quality

Objective: To monitor developments related to methods of classifying and depicting the quality of hydrographic information, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

Task 2.5.1	Conduct annual meetings of relevant HSSC WG dealing with data quality	2013-17	
Task 2.5.2	Maintain and extend the relevant IHO standards, specifications and publications, including: - Data quality related elements of S-57 - IHO Transfer Standard for Digital Hydrographic Data - Data quality related elements of S-52 - Specifications for Chart Content and Display Aspects of ECDIS - Data quality related elements of S-100 - IHO Universal Hydrographic Data Model and - S-101 - ENC Product Specification and other S-100-based Product Specifications	2013-17	no significant IHO expense anticipated

Element 2.6 Nautical Publications

Objective: To monitor developments related to the preparation of nautical publications, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

Task 2.6.1	Conduct annual meetings of relevant HSSC WG dealing with nautical publications	2013-17	
Task 2.6.2	Develop, maintain and extend S-10n - Nautical Information Product Specification	2013-17	no significant IHO expense anticipated

Task 2.6.3	Maintain and extend the relevant IHO standards, specifications and publications, including: - IHO Resolutions in M-3 relating to Nautical Publications - S-12 Standardization of List of Lights and Fog Signals	2013-17	no significant IHO expense anticipated
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Element 2.7 Tides and Datums

Objective: To monitor developments related to tidal and water level observation, analysis and prediction and other related information including vertical and horizontal datums, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

Task 2.7.1	Conduct annual meetings of relevant HSSC WG dealing with tides and datums	2013-17	
Task 2.7.2	Maintain and extend the relevant IHO standards, specifications and publications, including: - Relevant IHO Resolutions in M-3 - S-60 User's Handbook on Datum Transformations involving WGS 84 - Standard Tidal Constituent List and Inventory of Tide Gauges used by Member States	2013-17	no significant IHO expense anticipated
Task 2.7.3	Develop, maintain and extend a Product Specification for digital tide tables	2013-17	no significant IHO expense anticipated
Task 2.7.4	Develop, maintain and extend a Product Specification for the transmission of real-time tidal data	2013-17	no significant IHO expense anticipated
Task 2.7.5	Develop, maintain and extend a Product specification for dynamic tides in ECDIS	2013-17	no significant IHO expense anticipated

Element 2.8 Digital Data Updating

Objective: To monitor developments in standardized processes for the updating of digital hydrographic data products, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

Task 2.8.1	Maintain and extend the relevant IHO standards, specifications and publications, including: - Digital data updating related elements of S-65 - ENC Production Guidance - S-52 Appendix 1 - Guidance on Updating the Electronic Navigational Chart	2013-17	no significant IHO expense anticipated
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Element 2.9 Marine Spatial Data Infrastructures

Objective: To monitor developments related to the hydrographic component of Spatial Data Infrastructures, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate.

Task 2.9.1	Conduct annual meetings of relevant HSSC WG dealing with MSDI	2013-17	
Task 2.9.2	Maintain the relevant IHO standards, specifications and publications, including: - C-17 Spatial Data Infrastructures: "The Marine Dimension" - Guidance for Hydrographic Offices	2013-17	no significant IHO expense anticipated

Element 2.10 Hydrographic Data Acquisition and Processing

Objective: To monitor developments related to hydrographic data acquisition and processing, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate.

Task 2.10.1	Conduct annual meetings of relevant HSSC WG dealing with hydrographic data acquisition and processing when WG required	2013-17	no meetings planned at present
Task 2.10.2	Maintain and extend, when required, the relevant IHO standards, specifications and publications, including: S-44 - IHO Standards for Hydrographic Surveys	2013-17	no meetings planned at present

Element 2.11 Hydrographic Dictionary

Objective: To develop, maintain and extend S-32 - Hydrographic Dictionary in English, French and Spanish and to provide technical advice as appropriate.

Task 2.11.1	Maintain and extend the IHO Hydrographic Dictionary in English, French and Spanish	2013-17	no significant IHO expense anticipated
Task 2.11.2	Develop the Spanish language Wiki version of S-32 with commercial contract support	2013-14	contract support: 20K€

Element 2.12 Hydrographic Aspects of UNCLOS

Objective: To monitor developments related to the hydrographic aspects of the UN Convention on the Law of the Sea, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate.

Task 2.12.1	Organise and prepare ABLOS annual business meetings	2013-17	
Task 2.12.2	Organise and prepare the biennial ABLOS Conferences	2014-16	self-funding
Task 2.12.3	Contribute to the revision of IHO publication C-51- TALOS Manual	2013-17	no significant IHO expense anticipated

3. TSMAD WORK PLAN 2014-15

3.1 TSMAD Tasks

A	Maintain and extend S-100 "IHO Universal Hydrographic Data Model" (IHO Task 2.2.2 refers) and related projects: 1. S-99 "Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry" (IHO Task 2.2.2 refers) 2. S-101 "ENC Product Specification" (IHO Task 2.2.2 refers) 3. S-102 "Bathymetric Surface Product Specification" (IHO Task 2.2.2 refers)
B	Maintain and extend S-58 Recommended ENC validation checks (IHO Task 2.2.2 refers)
C	Support FAQ and encoding bulletin sections of IHO web site up to date (IHO Task 2.2.2 refers)
D	Maintain and extend S-64 IHO Test Data Sets for ECDIS (IHO Task 2.2.2 refers)
E	Maintain and extend S-57 IHO Transfer Standard for Digital Hydrographic Data (IHO Task 2.2.2 refers)
F	Maintain and extend S-65 ENCs: Production, Maintenance and Distribution Guidance (IHO Task 2.2.2 refers)
G	Maintain and extend S-61 Product Specification for Raster Navigational Charts (IHO Task 2.2.2 refers)
H	Develop and maintain as yet undefined S-100-based Product Specifications (IHO Task 2.2.3 refers)
I	Maintain and extend S-100 registry (IHO Task 2.2.4 refers)
J	Provide outreach and technical assistance regarding transfer standards (IHO Task 2.2.5 refers)
K	Conduct the 2013 and 2014 meetings of TSMAD and its sub-group(s) (IHO Task 2.2.1 refers)

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)	Related Pubs / Standard	Remarks
A	S-100	H	S-100 Published Apr 2010	2001	2010	C	Barrie Greenslade (UKHO)		
A.1	Develop a template Product Specification for Marine Information Overlays (MIO)	M		2010	2015	O	Barrie Greenslade (UKHO)		
A.2	Develop 1st draft of S-101 ENC product specification	M		2006	2013 2014	O	Julia Powell (NOAA)		
A.3	Conduct an S-101 Impact Study	H		2012	2013 2012	OC	Laurent Louvart (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)	Related Pubs / Standard	Remarks
A.4	Investigate a suitable grid referencing system for S-100	L		2010	????	O	Tony Pharaoh (IHB)		Work item to be reconsidered at TSMAD 25.
<u>A.5</u>	<u>Investigate expanding S-64 to improve its usefulness for both OEMs and type approval authorities</u>	<u>M</u>		<u>2012</u>	<u>2013</u>	<u>O</u>	<u>Tom Richardson (UKHO)</u>		
<u>A.6</u>	<u>1. Restructure S-58 to provide a more logical means of data validation. 2. Investigate how the new version of S-58 can be used to implement a minimum validation standard for all ENC's.</u>	<u>M</u>		<u>2012</u>	<u>2013</u>	<u>C</u>	<u>Richard Fowle(UKHO) Tom Richardson (UKHO)</u>		
<u>A.7</u>	<u>Develop S-100 Bathymetric Content Specification.</u>	<u>H</u>	<u>S-102 Published April 2012</u>	<u>2001</u>	<u>2012</u>	<u>C</u>	<u>Wade Ladner (NAVO)</u>		
A.8	Develop S-100 Portrayal Component	H		2006	2013	O	DIPWG		
A.9	Develop an S-10X product specification for Auxiliary Informational Layer Integration.	M	<u>1st Draft 2010</u>	2010	????	<u>OC</u>	Lynn Patterson (CHS)		1st Draft 2010. End date to be discussed at TSMAD 25.
A.10	Liaise with Non-IHO Constituents, e.g. Inland ECDIS, Marine Navigation Industry, DGIWG, AML, WMO Ice, and GIS Industry.	H		2004	-	O			
<u>A.11</u>	<u>Study the possibility to encode information features as New Objects (see S-57 supplement) to avoid caution area objects (CNTARE) in some cases, e.g. to encode T&Ps"</u>	<u>M</u>				<u>O</u>			
<u>A.12</u>	<u>Produce a roadmap guiding the implementation of S-104</u>	<u>H</u>		<u>2012</u>	<u>2013</u>	<u>P</u>			

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)	Related Pubs / Standard	Remarks
B.1	Keep S-58 Recommended Validation Checks up to date	H		2003	-	O	Richard Fowle (UKHO) Guy Uguen (SHOM)		
B.2	1. Restructure S-58 to provide a more logical means of data validation. 2. Investigate how the new version of S-58 can be used to implement a minimum validation standard for all ENC's.	M		2012	2013	O	Guy Uguen (SHOM) Tom Richardson (UKHO)		Former task A.6.
C.1	Support FAQ and Encoding Bulletins	H		2003	-	O	Jeff Wooton (AHS)		Includes the development of an Encoding Bulletin that describes how to encode Virtual AIS Aids to Navigation in ENC's.
D.1	Keep S-64 IHO Test Data Sets for ECDIS up to date	H		2003	-	O	Barrie Greenslade (UKHO)		
D.2	Investigate expanding S-64 to improve its usefulness for both OEMs and type approval authorities	M		2012	2013	O	Tom Richardson (UKHO)		Former task A.5.
E.1	Study the possibility to encode information features as New Objects (see S-57 supplement) to avoid caution area objects (CNTARE) in some cases, e.g. to encode T&Ps"	M				O			Former task A.11.

3.2 TSMAD Meetings (Task K)

Date	Location	Activity
<u>29 Sep – 3 Oct 03</u>	<u>Wollongong, Australia</u>	<u>10th Meeting</u>
<u>11-12 November 04</u>	<u>IHB, Monaco</u>	<u>11th Meeting</u>
<u>10-11 November 05</u>	<u>Wollongong, Australia</u>	<u>12th Meeting</u>
<u>18-22 September 06</u>	<u>Wellington, New Zealand</u>	<u>13th Meeting</u>

4-8 June 07	UKHO, Taunton	14th Meeting
14-18 January 08	IHB, Monaco	15th Meeting
5-9 May 08	Cape Town, South Africa	16th Meeting
8-12 September 08	Seattle, USA	17th Meeting
4-8 May 09	Ottawa, Canada	18th Meeting
26-30 Oct 09	Sydney, Australia	19th Meeting
3-7 May 10	Rostock, Germany	20th Meeting
29 Nov-3 Dec 10	Victoria, Canada	21st Meeting
16-20 Jan 2012	Wellington, New Zealand	TSMAD 23
7-11 May 2012	Monaco	TSMAD 24
15-18 Jan 2013	Tokyo, Japan	TSMAD 25
10-14 Jun 2013	Silver Spring, MD, USA	TSMAD 26
2-6 Dec 2013	IHB, Monaco	TSMAD 27
31 Mar-4 Apr 2014	Sydney, Australia	TSMAD 28

TSMAD S-100 Sub-WG

<u>Date</u>	<u>Location</u>	<u>Activity</u>
25-29 April 05	Univ. of NH, USA	1st Meeting
7-9 November 05	Wollongong, Australia	2nd Meeting
15-19 May 06	Brest, France	3rd Meeting
18-22 September 06	Wellington, New Zealand	4th Meeting
27-1 December 06	Silver Spring, USA	5th Meeting
23-27 April 07	Ottawa, Canada	6th Meeting
17-21 September 07	Hamburg, Germany	7th Meeting
2-4 September	Taunton, UK	8th Meeting

Chair: Barrie GREENSLADE, UK
Vice Chair: Julia POWELL, USA
Secretary: Anthony PHARAOH, IHB

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Email: Julia.Powell@noaa.gov
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4. DIPWG WORK PLAN 2014-15

4.1 DIPWG Tasks

A	Maintain and extend S-52 “ Specifications for Chart Content and Display Aspects of ECDIS ” and its associated “Presentation Library” (IHO Task 2.3.2 refers)
B	Contribute to IEC TC80/WG13 symbol harmonizing work (IHO Task 2.3.2 refers)
C	Monitor Relevant International Standards (New Task)(IHO Task 2.3.2 refers)
D	Introduce new website based recommendation service for good application practice of S-52 (IHO Task 2.3.2 refers)
E	Contribute to harmonised rules for ENC loading strategy, use of SCAMIN and overscale indication (IHO Task 2.3.2 refers)
F	Assess the impact of other IHO standards on S-52 C&S regulations (IHO Task 2.3.2 refers)
G	Improving ENC Consistency/Loading strategies (IHO Task 2.3.2 refers)
H	Harmonisation of pick report presentation (IHO Task 2.3.2 refers)
J	Harmonisation with CSPCWG (IHO Task 2.3.2 refers)
K	Maintain the DIPWG bulletin and FAQ section on the IHO website (IHO Task 2.3.2 refers)
L	Investigate enhancing the appearance of existing traditional paper chart symbols used in ECDIS by modifying their size, shape and colour (IHO Task 2.3.2 refers)
M	Provide technical assistance on Portrayal for S-10x related product specifications (IHO Task 2.3.2 refers)
N	Conduct the 2013 and 2014 meetings of DIPWG (IHO Task 2.3.1 refers)

Task	Work Item	Priority H-high M-med L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person	Related Pubs / Standard	Remarks
A.1	Resolve any problems or errors identified in S-52 and its Presentation Library as appropriate	H		2009	-	O	Colby Harmon Tom Mellor	S-52	Continuing Work Item This addresses the routine maintenance of S-52.
A.4	Issue Maintenance Document No. 9 of S-52.	M		2011		P	Colby Harmon	S-52	DIPWG intends using Maintenance Document 9 to promulgate an optional deferred amendment for the standardization of pick reports, which may take manufacturers awhile to develop and implement.

Task	Work Item	Priority H-high M-med L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person	Related Pubs / Standard	Remarks
A.5	Develop new Presentation Library Version 3.5 and coordinate with TSMAD for appropriate changes to S-64.	M		2012	2014	P	Colby Harmon	S-52	Continuing Work Item DIPWG has issued two maintenance documents against the current Presentation Library 3.4. DIPWG continues to develop a new version of the Presentation Library that will incorporate the existing maintenance documents and include any additional new changes as deemed appropriate. This will increase uniformity among ECDIS implementations and ease the transition of the Presentation Library into S-100/S-101.
C.1	Monitor Relevant International Standards	L		2011	-	O	Colby Harmon Julia Powell	S-52 S-100 Portrayal Register	Continuing Work Item With the increased inter-dependencies between various International Standards, such as IEC 61174, IEC 62288 and the ISO 19100 series of standards, it is vital that DIPWG monitor the activities of these standards bodies and to advise HSSC if there is a need to update the relevant IHO standards to incorporate changes from external standards bodies.
F.2	Maintain S-100 Portrayal	H		2005	-	O	Colby Harmon Tom Mellor Julia Powell	S-52 S-100 Portrayal Register	Continuing Work Item This work item will refine and expand the initial development of Portrayal and Symbol Models by incorporating clarifications, corrections, and extensions as needed for the community of users that have implemented the S-100 data model.
F.3	Assist TSMAD in identifying which aspects of S-52 should be incorporated into S-100 and S-101 Specification.	H		2009	2013	O	Colby Harmon Tom Mellor Julia Powell	S-100 S-101	Continuing Work Item Develop the S-100 Portrayal Section, the S-101 Portrayal Section and the associated S-101 Portrayal Catalogue. This includes incorporating relevant portions of S-52.
F.4	Maintenance of S-101 Portrayal Component and Portrayal Catalogue	H		2012	-	O	Colby Harmon Tom Mellor Julia Powell	S-101 S-100 Portrayal Register	Continuing Work Item Maintain S-101 Portrayal by incorporating clarifications, corrections, and extensions as needed for the community of users that have implemented S-101.

Task	Work Item	Priority H-high M-med L-low	Next milestone	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person	Related Pubs / Standard	Remarks
J.1	Liaise with CSPCWG	M		2009	-	O	Colby Harmon Jeff Wootton	S-52 S-100 Portrayal Register	Continuing Work Item This work item is to review and address, as appropriate, any changes in paper chart portrayal standards, in close coordination with TSMAD.
K.2	Maintain Chart Presentation Bulletins on the DIPWG page of IHO website	M		2008	-	O	Colby Harmon Alberto Costa Neves		Continuing Work Item This work item addresses the routine posting of CPBs on the IHO website.
K.3	Review and revise other informational pages on the DIPWG page of IHO website	L		2008	-	O	Colby Harmon Alberto Costa Neves		Continuing Work Item This work item addresses the continual improvement of the DIPWG page on the IHO website.
L.1	Investigate enhancing the appearance of existing traditional paper chart symbols used in ECDIS by modifying their size, shape and colour.	L		2009	-	O	Colby Harmon	S-52 S-100 Portrayal Register	Continuing Work Item Enhancing existing S-52 symbology to take better advantage of modern ECDIS display capabilities.
M.1	Provide technical assistance on Portrayal for S-10x related product specifications.	M		2009	-	O	Colby Harmon		Continuing Work Item Increasing The use of S-100 by both IHO and non-IHO working groups has entities called calls for DIPWG providing to provide technical assistance to these groups on the development of portrayal catalogues for S-100 based product specifications. Currently, DIPWG is assisting SNPWG in the development of S-10x Marine Protected Area portrayal.

4.2 DIPWG Meetings (Task N)

Date	Location	Activity
7-11 May 2012	IHB, Monaco	DIPWG 4
10-14 Jun 2013	Silver Spring, MD, USA	DIPWG 5
31 Mar-4 Apr 2014	Sydney, Australia	DIPWG 6

Chairman: Colby HARMON, USA
Vice Chairman: Tom MELLOR, UK
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5. DPSWG WORK PLAN 2014-15

- Objectives, Tasks and Work Items are pursued in accordance with IHO Work Programme 2013-2017, Programme 2 (Services and Standards):
- The focus is
 - Support for existing scheme including upgrade to latest version
 - Development of new standard
- As a Plan it will and should evolve; accordingly, contributions from WG members and others are welcomed at any time.

5.1 DPSWG Tasks

A	Provide technical and operational support to Data Servers and OEMs developing or operating systems or services compliant with S-63 (IHO Task 2.4.2 refers)
B	Maintain and extend S-63 “IHO Data Protection Scheme” and produce new edition of S-63 to complement S-101 (IHO Task 2.4.2 refers)
C	Maintain and extend data protection and authentication related elements of S-100 “IHO Universal Hydrographic Data Model” (IHO Task 2.4.2 refers)
D	Maintain and extend data protection and authentication related elements of S-101 “ENC Product Specification” (IHO Task 2.4.2 refers)
E	Conduct the 2013 meeting of DPSWG (Task 2.4.1 refers)

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)	Related Pubs / Standard	Remarks
<u>A</u>	<u>Maintain and extend Publication S-63</u>	<u>H</u>			<u>-</u>	<u>O</u>		<u>S-63 S-64</u>	
<u>A.4B</u>	Provide S-63 technical and operational support to Data Servers and OEMs	H		01.08.03	-	O	DPSWG members	S-63 edition 1.0/1.1	
<u>B.4D</u>	Engage stakeholders in drafting of new edition of S-63 to support S-101 development	<u>HM</u>	<u>Working draft Sept. 2013</u>	01.09.10	<u>????Feb 2014</u>	O	DPSWG members	<u>DPSWG Workplan S-63, S-101</u>	
<u>B.2C</u>	Develop a more detailed work plan for future standards relating to Data Protection and Security of ENC data.	<u>HM</u>		01.10.08	<u>March 2013Feb 2014</u>	O	DPSWG members	S-63, S-101	
<u>E</u>	<u>Support transition to latest edition of S-63 (1.1)</u>	<u>H</u>			<u>1 Jan 2014</u>	<u>O</u>		<u>-</u>	

5.2 DPSWG Meetings (Task E)

Date	Location	Activity
17-18 Feb 2011	IHB Monaco	S-63 Workshop + DPSWG 8
18-20 Feb 2013	IHB Monaco	DPSWG 9
Feb 2014	IHB Monaco	DPSWG 10

Chairman: Jonathan PRITCHARD, UK

Vice Chairman: Robert SANDVIK, Norway

Secretary: Anthony PHARAOH, IHB

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6. CSPCWG WORK PLAN 2014-15

- Objectives, Tasks and Work Items are pursued in accordance with IHO Work Programme 2013-2017, Programme 2 (Services and Standards):
 - Element 2.3. Nautical Cartography:
 - Task 2.3.1 Conduct annual meetings of relevant HSSC WGs dealing with nautical cartography.
 - Task 2.3.2 Maintain and extend the relevant IHO standards, specifications and publications.
- The focus is on maintaining and enhancing cartographic standards and specifications for nautical charts to suit the needs of the modern mariner in support of safe navigation and protection of the marine environment.
- As a Plan it will and should evolve; accordingly, contributions from WG members and others are welcomed at any time.

6.1 CSPCWG Tasks

A	Maintain and extend Publication S-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts' (IHO Task 2.3.2 refers)
B	Maintain and extend Publication S-11 Part A 'Guidance for the Preparation and Maintenance of INT Chart schemes' (IHO Task 2.3.2 refers)
D	Development of new (and revised) symbology (IHO Task 2.3.2 refers)
E	Maintenance of S-4 supplementary publications INT 1, 2 & 3 (IHO Task 2.3.2 refers)
F	Maintain and extend Publication S-49 'Recommendations concerning Mariners' Routing Guides' (IHO T2.3.2 refers)
G	Conduct the 2013 and 2014 <u>annual</u> meetings of CSPCWG (IHO Task 2.3.1 refers)

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)	Related Pubs / Standard	Remarks
A.5.1	Revise S-4 Part B Section 300-330	H	IHO CL for M/S approval	2010	2013	OC	Sec CSPCWG	S-4 / B-300	Edition 4.4.0 published Sep 2013 CL 55/2013WG Ltr 9/12
A.5.2	Revise S-4 Part B Section 340-390	M	IHO CL for M/S approval	2011	2013	OC	Sec CSPCWG	S-4 / B-300	Edition 4.4.0 published Sep 2013 CL 55/2013WG Ltr 9/12
A.6	Revise S-4 Part B Section 500	LM	IHO CL for M/S approval WG Ltr	2012	2013 2014	O	Sec CSPCWG	S-4 / B-500	Final draft in preparation WG Letter 14/2013 Draft in prep
A.11	Clarify guidance on dredged/maintained areas	M	WG Ltr 10 item 8.1	2011	2013 2014	O	Sec CSPCWG	S-4, INT1?	CSPCWG9 Action 43 CSPCWG8-08.9A & Action 15.-In discussion with Aus HO
<u>A.12</u>	<u>Provide guidance on charting toroidal shaped buoys</u>			<u>2012</u>	<u>2013</u>	<u>C</u>		<u>S-4 / B-462.5</u>	<u>Edition 4.4.0 published Sep 2013 CL55/2013</u>

A13	Provide guidance on charting maximum authorized draught	M	Draft to WG10 item 8.2	2012	2014	O			CSPCWG9 Action 36
A14	Provide guidance on updating large scale charts first	M	IHO-CL for M/S approval	2012	2014	O	Sec CSPCWG	S-4 / B-100.5	CSPCWG9 Action 46 CL58/2013
A15	Provide guidance on charting underwater volcanic activity			2012	2013	C		S-4 / B-355.1 & 428.4	Edition 4.4.0 published Sep 2013 CL55/2013
A16	Initiate consideration of the 'future of the paper chart'	M	Discussion paper by AU / CA / SE CSPCWG reps WG10 item 13.1	2013		P	Vice chair CSPCWG	tbd	CSPCWG9 Action 53
B.3	Develop guidelines for preparation & maintenance of small / medium scale ENC schemes.	H	NSEHWG review WG Ltr to NSEHWG & ICCWG	2009	2013	O	Chair CSPCWG	S-11A (or S-65?) S-65 ?	Draft by NSEHWG; keep WENDWGTF engaged To be developed in liaison with NSEHWG and WEND WG.
D 27	Revise guidance on Marine Farm limits	H	IHO-CL for M/S approval	2011	2013	OC	Sec CSPCWG	S-4 / B-447.6, INT1	Edition 4.4.0 published Sep 2013 CL55/2013 WG Ltrs 6 & 11/12
D 28	Revise guidance on FPSO safety zones	M	IHO-CL for M/S approval	2011	2013	OC	Sec CSPCWG	S-4 / B-445.6	Edition 4.4.0 published Sep 2013 CL55/2013 WG Ltrs 6 & 11/12
D 29	Clarify guidance on safe vertical clearances	M	IHO-CL for M/S approval	2011	2013	OC	Sec CSPCWG	S-4 / section B-300	Edition 4.4.0 published Sep 2013 CL55/2013 WG Ltr 9/12
D 30	Guidance for post-disaster highlighting of new surveys	M	IHO-CL for M/S approval	2011	2013	OC	Sec CSPCWG	S-4 / B-293.8, 297.2, 417.8	Edition 4.4.0 published Sep 2013 CL55/2013 WG Ltrs 6 & 11/12
D 31	Analysis of DQWG user questionnaire on quality indicators & symbols	M	Further discussion at CSPCWG9	2012	2013	OC	Chair CSPCWG	S-4, INT 1	Analysis of paper chart DQ indicators completed at CSPCWG9 CSPCWG9 Actions 28 & 31: dedicated INT1 section for further discussion at CSPCWG10 Also note IHO CL51/2013 WG Ltrs 7 & 12/12
D32.1	Lights: Major lights, Direction lights, Highlighting	M	IHO-CL for M/S approval	2012	2014	O	Sec CSPCWG	S-4 / section B-470	CSPCWG9 Actions 10, 12 & 17 CL58/2013

D32.2	Lights: Interrupted lights	M	Advice from IALA	2012	2014	O	Sec CSPCWG	S-4 / section B-470	CSPCWG9 Action 13
D32.3	Lights: Generic light flare					C		S-4 / B-470.4.a	Edition 4.4.0 published Sep 2013 CL55/2013
D32.4	Lights: Reinstate (simplified) symbol for light vessels	M	CSPCWG10 item 8.4	2012	2014	O	Sec CSPCWG	S-4 / B-474, INT1	CSPCWG9 Action 18; paper to CSPCWG10
D33	Footbridges / bridges on small scale charts			2012	2013	C		S-4 / B-300	Edition 4.4.0 published Sep 2013 CL55/2013
E.1	Maintain official INT 1s		Planning for next editions by INT1 sub-WG (following Cadiz meeting July 2013)Next editions when planned	2013	~2015	O	DE: S Spohn FR: S LannuzelGuillou@Parvillers ES: A Guitart	INT 1	English version 2011 (Ed 7) French version 2012 (Ed 5) Spanish version 2011 (Ed 4) No new edition planned before 2015
E.4	Symbols for vacant entries in INT 1	L	Review when AGA5-2 completed	2013 2014		P	Sec CSPCWG	INT 1, S-4 part B	INT1 subWG to review Consider subsuming into E8next meeting
E8	Reorganize INT1 to exclude composite symbols	L	CSPCWG10 item 11.2Next round of NEs of INT1 (E1 refers)	2013	2014	PO	INT1 subWG	INT1	Dependent on outcome of CSPCWG9 Action 31& INT1 subWG July 13CSPCWG8-11.1A & Action 29

6.2 CSPCWG Meetings (Task G)

Date	Location	Activity
03-05 Nov 04	IHB, Monaco	CSPCWG 1
19-21 Oct 05	IHB, Monaco	CSPCWG 2
22-24 Nov 06	IHB, Monaco	CSPCWG 3
13-15 Nov 07	IHB, Monaco	CSPCWG 4
18-21 Nov 08	Sydney, Australia	CSPCWG 5
01-03 Dec 09	IHB, Monaco	CSPCWG 6
23-26 Nov 10	Simon's Town, S Africa	CSPCWG 7

29 Nov–02 Dec 2011	Turku, Finland	CSPCWG 8
13-16 Nov 2012	Seoul, Rep of Korea	CSPCWG 9
2021 -24 January 2014	Wellington, NZ	CSPCWG 10
2015	Rostock, Germany	CSPCWG 11

Chairman: Peter JONES, UK
Vice Chairman: Jeff WOOTTON, Australia
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7. SNPWG WORK PLAN 2014-15

7.1 SNPWG Tasks

A	Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
B	Define the content requirements of NP data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
C	Develop test data (IHO Task 2.6.2 refers)
D	Develop basic display rules for NP data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
E	Draft guidance documents (IHO Task 2.6.2 refers)
F	Maintain and extend IHO resolutions in M-3 relating to Nautical Publications as required (IHO Task 2.6.3 refers)
G	Liaise with other HSSC WG's and other IHO and international bodies (IHO Task 2.6.2 refers)
H	Develop, maintain and extend S-10n - Nautical Information Product Specification (IHO Task 2.6.2 refers)
I	Conduct the 2013 and 2014 meetings of SNPWG (IHO Task 2.6.1 refers)

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	Related Pubs / Standard	Remarks
B2	Model the data where required.	H		2004	Open	O	Chair/Sec SNPWG	S-100	To be included in NPUBS <u>domain of the FCD</u> register
B3	Review of objects and attributes	H	<u>04/2014</u> 11/2012	2004	Open	O	Chair/Sec SNPWG	S-100	According to the tasks assigned by HSSC4
B4	Propose amendments to <u>HYDRO domain of the FCD Register for Hydro register to TSMAD</u>	H		2005	Open	O	Chair/Sec SNPWG	S-100	To be included in the <u>FCDHydro</u> register
B6	Populate the NPUBS <u>domain of the FCD</u> Register	H		2006	Open	O	Chair/Sec SNPWG	S-100	
C1	Produce <u>NP1 data sample test data set</u>	H		2009	Open	O	Chair/Sec SNPWG		<u>According to the tasks assigned by HSSC4</u> <u>Collection of information to be modeled</u>
<u>C1.1</u>	<u>For Radio Services</u>	<u>H</u>	<u>04/2014</u>	<u>2012</u>	<u>2014</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
<u>C1.2</u>	<u>For Navigational services</u>	<u>H</u>	<u>04/2014</u>	<u>2012</u>	<u>2014</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
<u>C1.3</u>	<u>For Traffic management</u>	<u>H</u>	<u>04/2014</u>	<u>2012</u>	<u>2014</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		

C1.3.1	For Marine Protected Areas	H	<u>04/201406/2013 completion</u>	<u>2011</u>	<u>2013</u> <u>2012</u>	<u>QC</u>	Chair/Sec SNPWG		
<u>C1.4</u>	<u>For Physical environment</u>	<u>H</u>	<u>04/2014</u>	<u>2013</u>	<u>2014</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
<u>C1.x</u>	<u>To be completed (see Note)</u>	<u>H</u>					<u>Chair/Sec SNPWG</u>		<u>According to the tasks assigned by HSSC4</u>
C2	Set up a test bed ECDIS	M		<u>Open2009</u>	<u>Open2012</u>	P	Chair/Sec SNPWG		
D1	Develop basic display rules for NP data intended for use in ECDIS (NP3)	M		2008	Open	O	Chair/Sec SNPWG	S-52	Close co-operation with DIPWG required
E1	Draft Data Capture and Encoding Guide	H		2008	Open	O	Chair/Sec SNPWG		Document for NPs similar to Use of the Object Catalog
E1.1	For Marine Protected Areas	H	<u>04/201406/2013 completion</u>	<u>2011</u>	<u>2013</u> <u>Open</u>	O	Chair/Sec SNPWG		<u>To be harmonized with S101 DCEG; Awaiting next S-100 version</u>
<u>E1.x</u>	<u>To be completed (see Note)</u>	<u>H</u>					<u>Chair/Sec SNPWG</u>		<u>According to the tasks assigned by HSSC4</u>
<u>E1.2</u>	<u>For Radio Signals</u>	<u>M</u>		<u>2014</u>	<u>Open</u>	<u>P</u>	<u>Chair/Sec SNPWG</u>		<u>Depends on modeling progress</u>
<u>E2</u>	<u>Draft Sample Product Specification</u>	<u>H</u>		<u>2008</u>	<u>2009</u>	<u>C</u>	<u>Chair/Sec SNPWG</u>		<u>Development of:</u> <u>a) a SNPWG profile of S-100 Part 11 Prod Spec;</u> <u>b) a draft sample for Pilotage;</u> <u>c) a draft sample for Waterways.</u>
E3	Draft Product Specification	H		2010	<u>2013</u> <u>Open</u>	O	Vice Chair SNPWG	S-10X	Drafted in phases;
<u>E3.1</u>	<u>For Radio Services</u>	<u>H</u>	<u>04/2014</u>	<u>Open</u>	<u>Open</u>	<u>P</u>	<u>Chair/Sec SNPWG</u>		
<u>E3.2</u>	<u>For Navigational services</u>	<u>H</u>	<u>04/2014</u>	<u>Open</u>	<u>Open</u>	<u>P</u>	<u>Chair/Sec SNPWG</u>		
<u>E3.3</u>	<u>For Traffic management</u>	<u>H</u>	<u>04/2014</u>	<u>2011</u>	<u>Open</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
E3.3.1	For Marine Protected Areas	H	<u>04/201412/2013</u>	<u>2011</u>	<u>2012</u>	<u>O</u>	Chair/Sec SNPWG		Depends on progress of S100 version allowing GML data use
<u>E3.x</u>	<u>To be completed (see Note)</u>	<u>H</u>					<u>Chair/Sec SNPWG</u>		<u>According to the tasks assigned by HSSC4</u>
<u>E3.4</u>	<u>For Physical environment</u>	<u>H</u>	<u>04/2014</u>	<u>Open</u>	<u>Open</u>	<u>P</u>	<u>Chair/Sec SNPWG</u>		

F1	Resolutions in M-3 relating to Nautical Publications	M	<u>04/2014</u>	2012	Open	O	Chair/Sec SNPWG	M-3	A review is scheduled due to harmonization of M3 information and potential ProdSpecs content
F2	S-12	L		<u>Open2012</u>	Open	<u>OP</u>	Chair/Sec SNPWG	S-12	<u>If considered necessary</u>
G1	Liaise with the DIPWG for the development of the display rules	H		2005	Open	O	Chair/Sec SNPWG		
G2	Liaise with the TSMAD	H		2004	Open	O	Chair/Sec SNPWG		
G3	Liaise with other groups	H		2004	Open	O	Chair/Sec SNPWG		Including DIPWG , DPSWG, DQWG, TWLWG, MIO's, AML, ICE, Inland ECDIS
<u>G4</u>	<u>Liaise with IALA e-Nav Committee</u>	<u>H</u>		<u>2013</u>	<u>Open</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		<u>As advised by HSSC4</u>
<u>H1</u>	<u>Develop, maintain and extend S-10n - Nautical Information Product Specification</u>	<u>H</u>	<u>04/2014</u>	<u>2009</u>	<u>Open</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		<u>Liaise with WWNWS-Sub committee</u>
<u>H1.1</u>	<u>For Radio Services</u>	<u>H</u>	<u>04/2014</u>	<u>2012</u>	<u>Open</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
<u>H1.2</u>	<u>For Navigational services</u>	<u>H</u>	<u>04/2014</u>	<u>2013</u>	<u>Open</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
<u>H1.3</u>	<u>For Traffic management</u>	<u>H</u>	<u>04/2014</u>	<u>2013</u>	<u>Open</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
<u>H1.3.1</u>	For Marine Protected Areas	<u>MH</u>	<u>04/2014</u> 12/2013	<u>2013</u> 2011	Open	<u>PO</u>	Chair/Sec SNPWG		When received final status
<u>H1.4</u>	<u>For Physical environment</u>	<u>H</u>	<u>04/2014</u>	<u>2013</u>	<u>Open</u>	<u>O</u>	<u>Chair/Sec SNPWG</u>		
<u>H2</u>	To be completed (see Note)	<u>M</u>		2014	Open	<u>P</u>			investigate potential ProdSpec candidates; see E3.x

~~Note: SNPWG has been tasked to prepare a master plan for developing electronic nautical publications from which the milestones and end dates of the different tasks will be derived (action HSSC4/25).~~

7.2 SNPWG Meetings (Task I)

Date	Location	Activity
13-17 Feb 2012	IHB, Monaco	SNPWG 14
12-16 Nov 2012	Helsinki, Finland	SNPWG 15
17-21 Jun 2013	Silver Spring, MD, USA	SNPWG 16

7-11 Apr 2014

Rostock, Germany

SNPWG 17

Chairman: Jens SCHRÖDER-FÜRSTENBERG, Germany

Vice-chairman: Mr. Thomas LOEPER, USA

Secretary: Pelle AAGAARD, Denmark

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8. DQWG WORK PLAN 2014-15

8.1 DQWG Tasks

A	Review ISO 19113, Geographic Information-Quality Principles, ISO 19114, Geographic Information-Quality Evaluation Procedures, and ISO 19115, Geographic Information - Metadata and propose relevant enhancements and amendments for incorporation in S-100 "IHO Universal Hydrographic Data Model" (IHO Task 2.5.2 refers)
B	Monitor and further develop quality indicators for hydrographic data (IHO Task 2.5.2 refers)
C	Maintain and extend as needed existing quality indicators in S-57 "IHO Transfer Standard for Digital Hydrographic Data", including the education of both the mariner and the cartographer, and the development of documentation (IHO Task 2.5.2 refers)
D	Maintain and extend as needed the presentation of data quality, as provided in S-52 "Specifications for Chart Content and Display Aspects of ECDIS" and its Presentation Library (IHO Task 2.5.2 refers)
E	Investigate ways of ensuring that ECDIS displays provide a clear warning or indication to the mariner on the quality of the underlying survey data, through appropriate use of the attribute CATZOC and/or improvement of the existing display capabilities (IHO Task 2.5.2 refers)
F	Propose new data quality topics and other applications for consideration by HSSC (IHO Task 2.5.2 refers)
G	Maintain and extend data quality related elements of S-100 "IHO Universal Hydrographic Data Model" (IHO Task 2.5.2 refers)
H	Maintain and extend data quality related elements of S-101 "ENC Product Specification" and other S-100-based Product Specifications (IHO Task 2.5.2 refers)
I	Conduct the 2013 and 2014 meetings of DQWG (IHO Task 2.5.1 refers)

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)	Related Pubs / Standards	Remarks
A	Review ISO 19113, 19114, 19115 and 19157 and make recommendations for inclusion in S-100	M		2010		O	DQWG	S-100	Ongoing task to keep S-100 data quality in line with ISO standards
B.3	Draft S-101 data quality	H	DQWG7		2013	<u>OC</u>	USM	S-101	Assess USM input to DQWG7 for impacts on model.
<u>B.4</u>	<u>Develop the hierarchy approach by formalizing the hierarchy and the algorithm that drive the display</u>	<u>H</u>	<u>TSMAD 27</u>	<u>2013</u>	<u>2014</u>	<u>O</u>	<u>Mike Prince</u>	<u>S-101</u>	<u>To be completed for submission to TSMAD 28.</u>

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)	Related Pubs / Standards	Remarks
C.4	Investigate possible methods for how to educate practicing mariners on data quality issues	H	DQWG7DQWG8	2010		O	DQWG		Investigate in liaison with training institutions the adequacy of existing HOs' documentatipn on the quality aspects of the practical use of ENCs. IHO CL 51/2013 issued on this topic.
E.1	Develop logic tree for indicatorsalarms in current and proposed approaches.	H	DQWG7DQWG8	2010	2014	PO	USMMike Prince	-	To be completed for submission to TSMAD 28. Logic to be discussed following USM input to DQWG7.
E.2	Demonstrate methods to mariners	H	Follows S-100 demonstratorUSM stage 1.	2012	20132014	P	USMDQWG	S-57, S-400S-101	Build possible methods into ENC and ECDIS to demonstrate effectiveness.
F.1	Investigate areas of quality concern (other than survey / bathymetry)	M	DQWG8	2010	-	O	Eivind Mong	-	SNPVG has responded, liaison is ongoing. Investigate the merit of supplying quality attributes to other elements of ENC and other publications e.g. sailing directions.

8.2 DQWG Meetings (Task I)

Date	Location	Activity
24-26 Jul 2012	Silver Spring, MD, USA	DQWG 6
16-18 Jul 2013	Fredericton, New Brunswick, Canada	DQWG 7
25-27 Mar 2014	Sydney/Wollongong, Australia	DQWG 8

Chairman: Chris HOWLETT, UK

Vice-chairman: Leendert DORST, Netherlands

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9. MSDIWG WORK PLAN 2014-15

9.1 MSDIWG Tasks (Initiatives)

A (1)	MSDI - Review of progress across Marine Sector Investigate methods for IHO to support MS' capability development in MSDI (IHO Task 2.9.2 refers)
B (2)	MSDI and Member States – review and status report Monitor national and international marine SDI activities and liaise to increase visibility (IHO Task 2.9.2 refers)
C (3)	What needs to be done – A practical approach to MSDI implementation! Identify and recommend possible solutions to significant technical issues related to interoperability (IHO Task 2.9.2 refers)
D (4)	Supporting MSDI Implementation - Training and Communications Maintain and extend Publication C-17 “Spatial Data Infrastructures: The Marine Dimension – Guidance for Hydrographic Offices” (IHO Task 2.9.2 refers)
E	Conduct the 2013 and 2014 meetings of MSDIWG (IHO Task 2.9.1 refers)

Task	Work item	Priority H-high M-med L-low	Next milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Persons responsible inc: main contact Pperson(s)	Related Publications/ Standards/WG/ Organisations
Initiative 1: MSDI - Review of progress across Marine Sector								
1.1	<u>Conduct a review of MSDI that includes conceptual descriptions of the four sub-areas of MSDI as per 1.1a-d.</u>	M	<ul style="list-style-type: none"> Fundamentals of MSDI (i.e. content, governance, ICT and standards) Making the case for MSDI; business case development. 	Jan 2013	Oct 2015	Planned	MSDIWG Chair/Vice Chair,	C-17/CBSC MSDI Syllabus
1.1a	<u>Technical issues</u>	M	<ul style="list-style-type: none"> Define standards for interoperability 	Jan 2014	Oct 2015	Planned	MSDIWG Chair, M. Osborne (OceanWise - UK); J. Rapaport (Caris -Canada); R. Ponce (Esri -USA)	C-17, INSPIRE
	<ul style="list-style-type: none"> Data harmonisation (i.e. Land-Sea) Data sharing and publishing 	H	<ul style="list-style-type: none"> Mechanisms in place for publishing data 	Sept 2013	Mar 2015	Planned		
1.1b	<u>Governance</u>	H	<u>Define key challenges in respect of:</u>	Jan 2013	Mar 2016	Ongoing	MSDIWG Chair/Vice Chair, IHB representative	www.creativecommons.org
	<ul style="list-style-type: none"> Change management 		<ul style="list-style-type: none"> Identify organisational attitudes 	Jan 2013	Mar 2016	Ongoing		
	<ul style="list-style-type: none"> Intellectual property Copyright and licensing 		<ul style="list-style-type: none"> Resolve IP issues in data Define release mechanisms 	Jan 2013	Mar 2016	Ongoing		

	<ul style="list-style-type: none">User requirements		<ul style="list-style-type: none">Understand user needs	Jan 2013	Mar 2016	Planned		
1.1c	Standards and specifications	M	<ul style="list-style-type: none">Status of adopted technical standardsStatus of new IHO data specifications	Jan 2013	Feb 2015	Ongoing	E. Vos (WG Vice Chair -Netherlands): All WG Members	INSPIRE, OGC, ISO, IHO
1.1d	Content (data)	H	<ul style="list-style-type: none">Report in –“Is data fit for purpose for inclusion in SDI”	Jan 2013	Feb 2015	Ongoing	MSDIWG Member States	RHC reports MSDIWG MS inputs
1.2	Liaison with other organisations to identify new uses for data. Identify value of HO data to economic development (e.g. MEIP)	M	<ul style="list-style-type: none">EC, UNESCO, IOC, IMO, ISO, OGC, FIG	Jan 2013	Jan 2018	Ongoing	MSDIWG Chair, Vice Chair, IHB representative, G. Homes (Australia)	UN, World Bank, Regional Dev Funds
1.3	Establishing an IHO MSDI community Wiki	L	<ul style="list-style-type: none">Develop website c/w add, modify, or delete content capability via a web browser)Create software in collaborationDevelop content management system	June 2014	Dec 2015	Planned	Wiki Task Group, Chair t.b.c A. Fernandez Ros (Spain)	
1.4	Maintain and extend Publication IHO MSDI C-17	H	<ul style="list-style-type: none">Update informationProvide case studiesBest practice guidelines defined	Sept 2014	July 2015	Planned	C-17 Task Group; Chair t.b.c R. Rios (Argentina), R. Ponce (Esri - USA)	
1.5	Identify and recommend possible solutions to significant technical issues related to interoperability	H	<ul style="list-style-type: none">Define the scope of the work related to interoperabilityMonitor developmentsProvide status report to MSDIWG including recommendations on how to proceedStanding WG Agenda item	June 2014 Aug 2014 June 2013	June 2015 Jan 2018 Feb 2014	Planned Planned Planned Ongoing	E. Vos (Vice Chair)	TSMAD
1.6	Provide updated information on all European Marine/Maritime initiatives	M	<ul style="list-style-type: none">Provide WG paper defining MS' INSPIRE obligations from a Hydrographic perspectiveIdentify and report on parallel programmes in EC (e.g. EMODNet, SeaDataNet,	June 2013	Jan 2018	Planned	EC Task Group; Chair t.b.c. C. Texier (France), E. Vos (Netherlands), J.P. Hartmann (WG Chair & Baltic & North Sea RHC MSDIWG), M. Halliwell	INSPIRE, Draft EC Directive on MSP and ICM

			<u>MSFD)</u>				<u>(UK)</u>	
Initiative 2: MSDI and Member States – review and status report								
<u>2.1</u>	<u>Prepare an MSDI review and status report, that identifies examples of MSDI best practise. This activity is a standing MSDIWG Agenda item</u>	<u>H</u>	<ul style="list-style-type: none"> <u>MS report to each MSDIWG annual meeting listings successes and challenges and ways of overcoming them</u> 	<u>Sept 2013</u>	<u>Jan 2018</u>	<u>Planned</u>	<u>Initiative 2 Sub Group required: Chair/Vice Chair, C. Texier (France), P. Valing (Estonia)</u>	
<u>2.2</u>	<u>Set up Review Group to audit MS's to establish current position in respect of benefits and challenges faced by MS's role in NSDI and/ or MSDI</u>	<u>H</u>	<ul style="list-style-type: none"> <u>Review 2008 survey and determine gain from a second survey.</u> <u>Prepare updated questionnaire</u> <u>Re-issue 2008 questionnaire (if appropriate)</u> <u>Audit status of MS</u> <u>Gather evidence</u> <u>Analyze/report results</u> 	<u>June 2014</u>	<u>June 2015</u>	<u>Planned</u>	<u>Sub group of Initiative 2 MSDIWG Chair/Vice Chair, P. Valing (Estonia), J. Pepper (OceanWise - UK) plus other MS invitees?</u>	
<u>2.3</u>	<u>Monitor and report on national and international MSDI activities and report to increase visibility of hydrographic importance (as MSDIWG Standing agenda item)</u>	<u>M</u>	<ul style="list-style-type: none"> <u>Engage with relevant initiatives</u> <u>Report level of MS involvement (if any)</u> 	<u>April 2013</u>	<u>Mar 2018</u>	<u>Ongoing</u>	<u>Sub group of Initiative 2</u> <u>A. Fernandez Ros (Spain), C. Texier (France)</u> <u>MSDIWG Chair/Vice Chair</u>	
<u>2.4</u>	<u>Create relevant use cases, from potential users of MSDI.</u>	<u>H</u>	<ul style="list-style-type: none"> <u>Identify and report success stories at sector, national or regional level</u> 	<u>Jan 2014</u>	<u>June 2015</u>	<u>Planned</u>	<u>Sub group of Initiative 2</u> <u>R. Ponce (Esri - USA), S. Grammann (Germany), IHB representative,</u> <u>MSDIWG Chair/Vice Chair</u>	
Initiative 3: What needs to be done – A practical approach to MSDI implementation!								
<u>3.1</u>	<u>Develop an MSDI WG strategy and revise work plan as necessary</u>	<u>H</u>	<ul style="list-style-type: none"> <u>Produce a SWOT and GAP analysis</u> <u>Define key strategic objectives</u> 	<u>Jan 2013</u>	<u>Jan 2018</u>	<u>Planned</u>	<u>WG Management Group</u>	

			<ul style="list-style-type: none"> Produce work plan c/w timelines, owners and outcomes 					
3.2	Build a “template” business case for MSDI (including economic and socio economic benefits)	H	<ul style="list-style-type: none"> Cost benefit analysis Identify efficiency savings Making the case for MSDI to budget holder 	Feb 2014	June 2015	Planned	MSDIWG Chair/Vice Chair, G. Homes (Australia), OceanWise (UK)	
3.3	Create or facilitate development of pilot MSDI projects with Member States	M	<ul style="list-style-type: none"> Identify methods by which IHO can support MS’ capability development in MSDI Provide “hands on” practical support to MS where necessary Provide IHO funding for the purpose 	Feb 2014	Jan 2018	Planned	A. Fernandez Ros (Spain), R. Ponce (Esri - USA), MSDIWG Chair/Vice Chair, IHB representative To be completed	
3.4	Liase with TSMAD regarding level of S-100 understanding and use in support of SDI activities (e.g. INSPIRE)	M	<ul style="list-style-type: none"> Determine and log any issues of concern in WG regarding new standards Obtain feedback from TSMAD on MSDIWG group-established topics Identify new S-1XX data specifications for datasets use in MSDI 	Jan 2013	Jan 2018	Ongoing	E. Vos (Netherlands), J. Rapaport (Caris – Canada), C. Texier (France) To be completed	INSPIRE, Draft EC Directive on MSP and ICM
3.5	Launch an IHO “discovery” meta database, based on open-source technology which allows harvesting of information from IHO MS at regional level	L	<ul style="list-style-type: none"> Set up metadata framework Define content Identify data that is linkable Create view service 	June 2014	June 2016	Planned	Open Source Task Group Chair - C. Texier (France) , J. Rapaport (Caris –Canada), R. Ponce (Esri -USA), R. Rios (Argentina)	
3.6	Determine hydrographic data set(s) that should be included in MSDI	H	<ul style="list-style-type: none"> Prioritize data layers by usefulness to non-navigational sectors Identify priority order of importance (High, medium, low) Establish top 10 list 	Jan 2013	Jan 2015	Ongoing	Core Data Task Group Chair - Mike Osborne (OceanWise) , P. Valing (Estonia), G. Homes (Australia), C. Texier (France), A. Fernandez Ros (Spain), R. Rios (Argentina), S.	

			<ul style="list-style-type: none"> Identify “core” reference datasets for MSDI 				Grammann (Germany)	
			<ul style="list-style-type: none"> Define publishing mechanism for sharing data 					
3.7	<u>Develop understanding of e- Navigation, its constituents and the role of MSDI as an enabler</u>	M	<ul style="list-style-type: none"> Develop pilot e-Navigation framework 	June 2014	June 2017	Planned	<u>e-Navigation Task Force Chair – M. Osborne (OceanWise, UK), P. Schwarzberg (Caris - BV), R. Ponce (Esri - USA), A. Fernandez Ros (Spain), C. Texier (France), S. Grammann (Germany)</u>	
Initiative 4: Supporting MSDI Implementation - Training and Communications								
4.1	<u>Identify the need for education and training among the Member States and report to WG Chair</u>	H	<ul style="list-style-type: none"> Develop training events as required 	Oct 2013	Jan 2018	Ongoing	MSDIWG Chair & Secretary. <u>IHO CBSC in collaboration with MSDIWG</u>	
			<ul style="list-style-type: none"> Deliver an INSPIRE Workshop with EC-JRC technical support 	Dec 2013	Apr 2014	Planned		
4.2	<u>Establish a MSDI training syllabus for use across IHO community</u>	H	<ul style="list-style-type: none"> Senior Managers (i.e. Directors, Hydrographers, HR Managers) Practitioners (i.e. Hydrographic Surveyors, Cartographers, Oceanographers, IT specialists) 	Oct 2013	Jan 2014	Ongoing	<u>Syllabus Task Group</u> R. Ponce (Esri -USA), A. Hoggarth (Caris - Canada), J. Pepper (OceanWise - UK), MSDIWG Chair, IHB representative. <u>IHO members to be confirmed.</u>	
4.3	<u>Organise Annual MSDIWG 1-day conference/open forum, as back to back arrangements with MSDIWG Annual Workshop (if possible)</u>	M	<ul style="list-style-type: none"> Date and venue defined Logistics in place Conference programme defined 	Sept 2013	Jan 2018	Planned	MSDIWG Management Group (Chair/Vice Chair, Secretary, IHB representative)	
4.4	<u>Host country Organise and deliver 2-day Annual Workshop of MSDIWG</u>	H	<ul style="list-style-type: none"> 2-day workshop to be run Q1 of each year; <ul style="list-style-type: none"> 2014 NOAA, Washington DC 2015-18 tbc Develop Workshop programmes 	Sept 2013	Feb 2014	Planned	MSDIWG Management Group (Chair/Vice Chair, Secretary, IHB representative)	
			<ul style="list-style-type: none"> Develop Workshop programmes 	Oct 2013	Jan 2014	Planned		
4.5	<u>Provide MSDI educational content to</u>	H	<ul style="list-style-type: none"> Set up schedule for 	Oct 2013	2018	Planned	<u>Syllabus Task Group</u>	

	<u>IHO Web site</u>		<p>presentations/papers from MSDIWG members/others to be uploaded to Web site.</p> <ul style="list-style-type: none"> Identify and make available MS Web sites/papers that address technical issues such as datums, WMS, WFS for charting data Poll MSDIWG members for input work, with IHB to post on IHO Web site Poll MS via questionnaire (if reissued) 			through workplan lifecycle	<u>R. Ponce (Esri – USA) Chair t.b.c.</u>	
<u>4.6</u>	<u>Develop external communications programme to promote the work of the WG (e.g. to Maritime Press; IMO, IOC/IODE/FIG/EC) and internal communications programme using IHO website (Ref 4-5) and e-mail blasts for MSDI news and related hot topics</u>	<u>H</u>	<ul style="list-style-type: none"> Prepare an MSDIWG paper to IMO dealing with E-navigation and MSDI from a Hydrographic approach Prepare technical and organisational articles to wider stakeholder communities On-line publishing 	<u>Aug 2013</u>	<u>Jan 2018</u>	<u>Planned</u>	<u>Communications Task Group</u> MSDIWG Chair, Vice-Chair & Secretary. C. Texier (France) <i>Plus other members from Task Groups</i>	
<u>4.7</u>	<u>Ensure IHO (Res 2/1997 as amended) is upheld at all RHC's in that MSDI is a standing reporting agenda item</u>	<u>H</u>	<ul style="list-style-type: none"> MSDIWG paper to IRCC re-stating importance of RHC's placing MSDI as an agenda item at RHC meetings MSDI inputs and actions from RHC's fed back to MSDIWG 	<u>July 2013</u>	<u>June 2014</u>	<u>Ongoing</u>	<u>MSDIWG Chair/Vice Chair</u>	<u>HSSC, IRCC, CBSC</u>

9.2 MSDIWG Meetings (Task E)

Date	Location	Activity
2-3 Apr 2009	IHB, Monaco	MSDIWG 3
8 & 13 Sep 2011		Conference Calls
30 Jan – 01 Feb 2013	Copenhagen, Denmark	MSDI Open Forum + MSDIWG 4
5-7 Feb 2014	Silver Spring, Ma, USA	MSDI Open Forum + MSDIWG 5

Chair: Jens Peter HARTMANN, Denmark
Vice-chair: Ellen VOS, Netherlands
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10. TWLWG WORK PLAN 2014-15

10.1 TWLWG Tasks

A	Maintain and extend Standard Tidal Constituent List (IHO Task 2.7.2 refers)
B	Prepare a Standard <u>Develop, maintain and extend a Product Specification</u> for Digital Tide Tables (IHO Task 2.7.3 refers)
C	Liaise with TSMAD on tidal matters <u>relevant to the Dynamic Application of Tides in ECDIS</u> and develop, maintain and extend a Product Specification for Dynamic Application of Tides in ECDIS (IHO Task 2.7.5 refers) and a Standard Product Specification for the transmission of real-time tidal data (IHO Task 2.7.4 refers)
E	Review the various definitions of MSL and their relevance to Hydrographic Offices and review the IHO tidal resolutions in M-3 to ensure that they are compatible with the requirements of non-tidal areas such as the Baltic Sea (IHO Task 2.7.2 refers)
F	Prepare and maintain an inventory of tide gauges used by Member States and to publish it on the IHO/TWLWG web site (IHO Task 2.7.2 refers)
H	Compare the tidal predictions generated as a result of analysis of a common data set using different analysis software (IHO Task 2.7.2 refers)
I	Review and provide feedback of On-line real time water level observation document (IHO Task 2.7.2 refers)
J	Conduct the 2013 and 2014 meetings of TWLWG (IHO Task 2.7.1 refers)

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	Maintain Standard Tidal Constituent List	M <u>H</u>	No updates required in 2012	Continuous		O	Chris Jones*		
A.2	Compare the tidal predictions generated as a result of analysis of a common data set using different analysis software.	M <u>H</u>	Select Common data set Analyse using different software Predict common set of tides Compare results	Continuous		O	Stephen Gill*		
B.2	Prepare a Standard for Digital Tide Tables	M <u>H</u>	Prepare draft Standard	2009	2013	O	Stephen Gill* Chris Jones Zarina Jayaswal		

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
C.1	Liaise with TSMAD and DIPWG on tidal matters relevant to the Dynamic Application of Tides in ECDIS	H	Prepare draft pages for Objects and Attributes. Prepare draft Product Specifications (S1**) for tidal data in S-100.	2010 2012	2012 2013 2013	O O	ZarinaJayaswa* Stephen Gill Chris Jones Juan Fierro Ruth Farre Dan Pillich		
C.2	Develop a Standard for the transmission of real-time tidal data	M H		2009	2013	O	Stephen Gill* Chris Jones Zarina Jayaswal Juan Fierro		
E.1	Review the various definitions of MSL and their relevance to Hydrographic Offices and review the IHO tidal resolutions to ensure that they are compatible with the requirements of non-tidal areas such as the Baltic Sea.	M H	Reviewed at TWLWG2- Further work undertaken at TWLWG3 and TWLWG4. Definition of MSL approved for submission to HDWG. Work on the IHO resolutions ongoing.	2009	2013	O	Jukka Varonen* Tor Tørresen Phil MacAulay Stephen Shipman Chris Jones Stephen Gill		
F.1	Prepare and maintain an inventory of tide gauges used by Member States and to publish it on the IHO/TWLWG web site.	M H	Initial inventory from TWLWG members available on IHO web site. CL36/2010 sent to Member States seeking wider input.	Continuous		O	David Wyatt* Stephen Gill		
H1	The study of long term data sets for the determination of global sea level rise.	M H		2011	2014	O	Chris Jones Salvador Moreno Stephen Gill Tor Tørresen Gwenaële Jan Do-Seong Byun		
I1	On-line real time water level observation document	M H	Review and feedback by 1 August 2012	2012	2013	O	David Wyatt		

10.2 TWLWG Meetings (Task J)

Date	Location	Activity
8-10 May 2012	Fish Hoek, South Africa	TWLWG 4
14-16 May 2013	Helsinki, Finland	TWLWG 5
7-11 Apr 2014	Wollongong, Australia	TWLWG 6

Chair: Gwenaële JAN, France

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11. HDWG WORK PLAN 2014-15

11.1 HDWG Tasks

A	Maintain and extend the definitions in the IHO Dictionary in French, English and Spanish (IHO Task 2.11.1 refers)
B	Liaise with other IHO bodies preparing publications containing glossaries (IHO Task 2.11.1 refers)
C	Liaise with other organizations developing dictionaries and/or glossaries (IHO Task 2.11.1 refers)
D	Develop the Spanish language Wiki version of S-32 with commercial contract support (IHO Task 2.11.2 refers)

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	Consider proposals from Greece for inclusion of 3 new terms related to the Coast.	H	a. Terms 1 – 3	2011	2012 2013	P	All	S-32	
A2	Review all terms currently included in S-32 for their relevance in accordance with the S-32 Business Rules and propose which definitions should be removed from S-32	M	a. Terms a – d b. Terms e – l c. Terms m – r d. Terms s – z	2012 2012 2013 2013	2013 2015 2013 2015 2014 2016 2014 2016	P P P P	All	S-32	
A3	Review the approved definitions of Altitude, Elevation and Height	H		2012	2013 2014			S-32	Alternative definitions to be submitted by HDWG to TSMAD27 (Dec 2013) and CSPCWG10 (Jan 2014) before endorsement
B6	Aquaculture – proposal from CSPCWG	H	a. Aquaculture	2011	2012 2013	P	All	S-32	
B7	CSPCWG	H	Phase of a navigational light	2011	2012 2013	P	All	S-32	

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
B8	TWLWG	H	Mean sea level	2011	2012 2013	P	All	S-32, IHO Resolution 3/1919	New definition considered too long. See Annex D
B9	SNPWG	H	Underkeel clearance/allowance	2011	2012 2013	P	All	S-32	
B10	IHB	H	Single Beam Echo Sounder	2011	2012 2013	P	All	S-32	
B11	UKHO	M	Seafloor	2012	2013 2014	P	All	S-32	
B12	UKHO	M	Bathymetry	2012	2013 2014	P	All	S-32	

11.2 HDWG Meetings (IHO WP Task 3.1.8 refers)

No meetings have taken place. HDWG is invited to consider face-to-face meeting in ~~2013~~2014.

Chair: Jean LAPORTE, France
Vice-Chair: Vacant
Secretary: David WYATT, IHB

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12. SCWG WORK PLAN 2014-15

12.1 SCWG Tasks

<u>A</u>	<u>Define user requirements (IHO Task 2.13.4 refers)</u>
<u>B</u>	<u>Create specification outline and prototype (IHO Task 2.13.4 refers)</u>
<u>C</u>	<u>Liaise with Industry experts on the development of a Product Specification for Dynamic Application of Navigationally Significant Surface Currents in ECDIS (IHO Task 2.13.4 refers)</u>
<u>D</u>	<u>Liaise with TSMAD on surface current matters and develop, maintain and extend a Product Specification for Dynamic Application of Navigationally Significant Surface Currents in ECDIS (IHO Task 2.13.4 refers) and a Product Specification for the transmission of real-time surface current data (IHO Task 2.13.3 refers)</u>
<u>E</u>	<u>Conduct the 2014 and 2015 meetings of SCWG (IHO Task 2.13.1 refers)</u>

<u>Task</u>	<u>Work item</u>	<u>Priority</u> H-high M-medium L-low	<u>Milestones</u>	<u>Start Date</u>	<u>End Date</u>	<u>Status</u> P-planned O-ongoing C-completed	<u>Contact Person(s)</u> * indicates leader	<u>Related Pubs/Standard</u>
<u>A.1</u>	<u>Develop a user survey on needs for surface currents</u>	<u>H</u>	<u>Complete final draft</u>	<u>2013</u>	<u>2013</u>	<u>O</u>	<u>*de Lange Boom</u> <u>All</u>	<u>IHO Resolution 2/2007</u>
<u>A.2</u>	<u>Publish user survey</u>	<u>H</u>	<u>Advertise survey through IHO circular letter</u> <u>Convert draft to survey monkey</u>	<u>2013</u> <u>2013</u>	<u>2013</u> <u>2013</u>	<u>P</u> <u>P</u>	<u>*de Lange Boom</u> <u>All</u> <u>*Hess</u>	<u>IHO Resolution 2/2007</u>
<u>A.3</u>	<u>Analyse user needs based on survey</u>	<u>H</u>	<u>Produce report with summary of results</u>	<u>2014</u>	<u>2014</u>	<u>P</u>	<u>*Kuילman, Hess, Moreno</u>	
<u>B.1</u>	<u>Create spec outline</u>	<u>H</u>	<u>Create initial outline</u> <u>Get SCWG feedback</u> <u>Make appropriate revisions and produce final outline</u>	<u>2013</u> <u>2013</u> <u>2013</u>	<u>2014</u> <u>2014</u> <u>2014</u>	<u>P</u> <u>P</u> <u>P</u>	<u>*Maltais, Ives, Stone, Pronost</u> <u>All</u> <u>*Maltais, Ives, Stone, Pronost</u>	

<u>Task</u>	<u>Work item</u>	<u>Priority</u> H-high M-medium L-low	<u>Milestones</u>	<u>Start Date</u>	<u>End Date</u>	<u>Status</u> P-planned O-ongoing C-completed	<u>Contact Person(s)</u> * indicates leader	<u>Related Pubs/Standard</u>
<u>B.2</u>	<u>Build prototype</u>	<u>H</u>	<u>Develop dynamic mock-up of possibilities</u>	<u>2013</u>	<u>2014</u>	<u>P</u>	<u>*Maltais, Ives</u>	
			<u>Demonstrate mock-up to TSMAD and DIPWG</u>	<u>2014</u>	<u>2015</u>	<u>P</u>	<u>*Maltais, Ives</u>	
			<u>Develop dynamic prototype of possibilities</u>	<u>2015</u>	<u>2017</u>	<u>P</u>	<u>*Maltais, Ives</u>	
<u>C</u>	<u>Liaise with industry experts</u>	<u>M</u>	<u>Contact appropriate product developers</u>	<u>2013</u>	<u>2017</u>	<u>P</u>	<u>All</u>	
			<u>Receive feedback</u>	<u>2013</u>	<u>2017</u>	<u>P</u>		
			<u>Revise standards according to feasibility</u>	<u>2013</u>	<u>2017</u>	<u>P</u>		
<u>D</u>	<u>Liaise with TSMAD and DIPWG on surface current matters relevant to the Dynamic Application of Surface Currents in ECDIS</u>	<u>H</u>	<u>Prepare draft scoping requirements.</u>	<u>2013</u>	<u>2013</u>	<u>P</u>	<u>*Hess, All</u>	
			<u>Prepare draft Product Specifications (S10x) for surface current data in S-100.</u>	<u>2013</u>	<u>2016</u>	<u>P</u>	<u>All</u>	

12.2 SCWG Meetings (Task F)

<u>Date</u>	<u>Location</u>	<u>Activity</u>
<u>29 – 31 May 2013</u>	<u>Silver Spring, USA</u>	<u>1st Meeting</u>
<u>June/July 2014</u>	<u>Quebec City, Canada</u>	<u>2nd Meeting</u>

Chair: Kurt Hess Email: kurt.hess@noaa.gov
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13. ABLOS WORK PLAN 2014-15

13.1 ABLOS Tasks

A	Organise the 8 th ABLOS Conference in 2015 (IHO Task 2.12.2)
B	Maintain IHO Publication C-51 "Technical Aspects of the Law of the Sea (TALOS) Manual" (IHO Task 2.12.3)
C	Deliver a standard training program on the hydrographic aspects of maritime delimitation. (IHO Task 3.5.2)
E	Provide advice and guidance on the technical aspect of the Law of the Sea to relevant organizations, bodies and Member States. (IHO Task 2.12.3)
F	Organise and prepare ABLOS business meetings in 2013 and 2014 (IHO Task 2.12.1)

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 8 th ABLOS Conference	H	Finalize title by BM 20 Title agreed by 31 Dec 2012 Organizing committee formed by BM 20 Dates confirmed by BM 20 Begin advertising	2012 <u>2013</u> <u>2013</u> <u>2013</u>	2015	CO <u>P</u> <u>P</u> <u>P</u>	All members of ABLOS through Niels Andersen*	N/A	
B1	Prepare draft 5 th Edition of C-51 (TALOS Manual) for adoption by Member States	H	Review chapters 3 & 5 by 15 Nov 2012 Review full draft edition by 31 Dec 2012 Complete all amendments by 31 Jan 2013 Pass to HSSC for endorsement by 15 Feb 2013 CL to MS for approval 1 May 2013 Circulate to IAG 1 Jul 2013	<u>2011</u> <u>2012</u> <u>2013</u> <u>2013</u> <u>2013</u> <u>2013</u>	2012 2013 <u>2013</u> <u>2013</u> <u>2013</u> <u>2013</u> <u>2014</u>	OC <u>C</u> <u>C</u> <u>O</u> <u>P</u> <u>P</u>	Chris Carleton*, Sunil Bisnath, John Brown, Shin Tani and I Made Andi Arsana	IHO Publication C-51	
B2	Review C-51 5 th Edition for any necessary updating.	H	Identify areas requiring updating by BM 20	2013	2015	P	Chris Carleton*, Sunil Bisnath, John Brown, David Wyatt	IHO Publication C-51	

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
B3	Prepare draft 6th Edition of C-51 (TALOS Manual) for adoption by Member States	M		2013	2015	P	Chris Carleton* , Sunil Bisnath , John Brown	IHO Publication C-51	
C1	Deliver standard training programmes for the CBSC	H		2011	Continuous	O	John Brown*		Workshops planned in 2013, 2014, 2016 and 2017 in the CBSC Work Plan.
E1	Provide advice and guidance on the technical aspect of the Law of the Sea	H		Continuous		O	All members of ABLOS through the Chair		

13.2 ABLOS Meetings (Tasks A & D)

Date	Location	Activity
1&6 Oct 2012	IHB, Monaco	ABLOS 19 and 7 th ABLOS Conference
28-29 Oct 2013	Muscat, Oman	ABLOS 20
October 2014		ABLOS 21
2015	IHB, Monaco	ABLOS 22 and 8 th ABLOS Conference

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