

HSSC4-09A

**4th IHO-HSSC Meeting
Taunton, UK, 25-28 September 2012**

DRAFT HSSC WORK PLAN 2012-2013

Note: This draft WP has been compiled from the WG reports to HSSC-4, plus the ABLOS report.

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 Chairmen 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 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 Chairman, Vice chairman, 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.

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| 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.

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| 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 2012-13

3.1 TSMAD Tasks

A	Maintain and extent S-100 "IHO Universal Hydrographic Data Model" (IHO Task 2.2.2 refers) and related projects: <ol style="list-style-type: none"> 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 meetings of TSMAD and its sub-group(s) (IHO Task 2.2.1 refers)

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard	Task
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		O	Barrie Greenslade (UKHO)		

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard	Task
A.2	Develop S-101 ENC product specification	M		2006	Jan 2013 ?	O ?	Julia Powell (NOAA)		
A.3	Conduct an S-101 Impact Study	H		2012	2012	O	Laurent Louvart (SHOM)		
A.4	Investigate a suitable grid referencing system for S-100	L		2010		O	Tony Pharaoh (IHB)		
A.5	Investigate expanding S-64 to improve its usefulness for both OEMs and type approval authorities	M		2012	2013	O	Tom Richardson (UKHO)		
A.6	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 ENCs.	M		2012	2013	O	Guy Uguen (SHOM) Tom Richardson (UKHO)		
A.7	Develop S-100 Bathymetric Content Specification.	H	S-102 Published April 2012	2001	2012	C	Wade Ladner (NAVO)		
A.8	Develop S-100 Portrayal Component	H		2006		O	DIPWG		
A.9	Develop an S-10X product specification for Auxiliary Informational Layer Integration.	M	1 st Draft 2010	2010		O	Lynn Patterson (CHS)		
A.10	Liaise with Non-IHO Constituents, e.g. Inland ECDIS, Marine Navigation Industry, DGIWG, AML, WMO Ice, and GIS Industry.	H		2004	-	O			

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard	Task
A.11	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			
B.1	Keep S-58 Recommended Validation Checks up to date	H		2003	-	O	Guy Uguen (SHOM)		
C.1	Support FAQ and Encoding Bulletins	H		2003	-	O	Jeff Wooton (AHS)		

3.2 TSMAD Meetings

TSMAD

Date	Location	Activity
29 Sep – 3 Oct 03	Wollongong, Australia	10th Meeting
11-12 November 04	IHB, Monaco	11th Meeting
10-11 November 05	Wollongong, Australia	12th Meeting
18-22 September 06	Wellington, New Zealand	13th Meeting
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 2009	Ottawa, Canada	18th Meeting
26-30 Oct 2009	Sydney, Australia	19th Meeting

TSMAD

3-7 May 2010	Rostock, Germany	20 th Meeting
29 Nov-3 Dec 2010	Victoria, Canada	21 st Meeting
11-15 Apr 2011	Seoul, Republic of Korea	22 nd Meeting
16-20 Jan 2012	Wellington, New Zealand	23 rd Meeting
7-11 May 2012	Monaco	24 th Meeting

TSMAD S-100 Sub-WG

Date	Location	Activity
25-29 Apr 2005	Univ. of NH, USA	1 st Meeting
7-9 Nov 2005	Wollongong, Australia	2 nd Meeting
15-19 May 2006	Brest, France	3 rd Meeting
18-22 Sep 2006	Wellington, New Zealand	4 th Meeting
27-1 Dec 2006	Silver Spring, USA	5 th Meeting
23-27 Apr 2007	Ottawa, Canada	6 th Meeting
17-21 Sep 2007	Hamburg, Germany	7 th Meeting
2-4 Sep 2009	Taunton, UK	8 th Meeting

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

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4. DIPWG WORK PLAN 2012-13**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 meeting of DIPWG (IHO Task 2.3.1 refers)

Task	Work Item	Priority H-high M-med L-low	Mile- stones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person	Affected Pubs/Stan- dard	Remarks
A.1 (2.4.1)	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	2013	P	Colby Harmon	S-52	Recommend Deleting this Work Item DIPWG plans on releasing a new PresLib 3.5 in the near future, but would like to use 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	Mile- stones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person	Affected Pubs/Stan- dard	Remarks
A.5 (2.4.2)	Publication of a new Presentation Library Version 3.5 Revision of the S-52 Presentation Library including in relation to aspects of S-64, taking into account the comments contained in paper HSSC3-05.3B	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 (2.4.7)	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 (2.4.4)	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 (2.4.3)	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.

Task	Work Item	Priority H-high M-med L-low	Mile- stones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person	Affected Pubs/Stan- dard	Remarks
F.4 (2.4.5)	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.
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 (2.4.6)	Provide technical assistance on Portrayal for S-10x related product specifications.	M		2009	-	O	Colby Harmon		Continuing Work Item Increasing use of S-100 by both IHO and non-IHO working groups has called for DIPWG providing 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

Date	Location	Activity
18-20 May 2003	Ottawa, Canada	14 th CSMWG Meeting
2-4 May 2005	Rostock, Germany	15 th CSMWG Meeting
29-31 May 2006	IHB Monaco	16 th CSMWG Meeting
11-13 Jun 2007	Stavanger, Norway	17 th CSMWG Meeting
7-9 May 2008	Cape Town, South Africa	18 th CSMWG Meeting
4-8 May 2009	Ottawa, Canada	1 st DIPWG Meeting
3-7 May 2010	Rostock, Germany	2 nd DIPWG Meeting
11-15 Apr 2011	Inchon, Rep of Korea	3 rd DIPWG Meeting
7-11 May 2012	IHB, Monaco	4 th DIPWG Meeting

Chairman: Colby HARMON, USA
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5. DPSWG WORK PLAN 2012-13

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	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard
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Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard
A.1	Provide S-63 technical and operational support to Data Servers and OEMs	H	Ongoing	01.08.03		O	DPSWG members	S-63 edition 1.0/1.1
B.2	Develop a more detailed work plan for future standards relating to Data Protection and Security of ENC data.	H	Ongoing	01.10.08		C	DPSWG members	S-63, S-101
B.1	Engage stakeholders in drafting of new edition of S-63 to support S-101 development	H	Ongoing	1.9.10		O	DPSWG members	S-63, S-101

5.2 DPSWG Meetings

Date	Location	Activity
24-25 Nov 2003	IHB, Monaco	DPSWG 3
22-23 Jun 2004	IHB, Monaco	DPSWG 4
31 Aug - 1 Sep 2006	IHB, Monaco	DPSWG 5
28-30 May 2007	IHB, Monaco	DPSWG 6
31 Mar – 1 Apr 2009	IHB Monaco	DPSWG 7
13-14 Feb 2011	IHB Monaco	DPSWG 8

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6. CSPCWG WORK PLAN 2012-13

- *Objectives, Tasks and Work Items are pursued in accordance with IHO Work Programme 2013-2017, Programme 2 (Hydrographic Services and Standards):*
 - *Element 2.3. Nautical Cartography:*
 - *Task 2.3.1 Conduct annual meetings of relevant HSSC WGs dealing with nautical cartography, Chart Standardization and Paper Chart Working Group*

- *Task 2.3.2 Maintain and extend the relevant IHO standards, specifications and publications, INT Chart Series*
- *The focus is on maintaining and enhancing the cartographic standards in paper charts to suit the needs of the modern mariner in support of safe navigation and protection of the marine environment, whilst drawing together, wherever possible, common issues of paper/electronic charting.*
- *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	Revise, develop and maintain S-49 'Recommendations concerning Mariners' Routing Guides' (IHO T2.3.2 refers)
G	Conduct the 2012 and 2013 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)	Affected Pubs/Standard	Remarks
A.5.1	Revise S-4 Part B Section 300-330	H	IHO CL for M/S approval	2010	2013	O	Sec CSPCWG	S-4 / B-300	WG Ltr 9/12
A.5.2	Revise S-4 Part B Section 340-390	M	IHO CL for M/S approval	2011	2013	O	Sec CSPCWG	S-4 / B-300	WG Ltr 9/12
A.6	Revise S-4 Part B Section 500	L	WG Ltr	2012	2013	O	Sec CSPCWG	S-4 / B-500	Draft in prep
A.10	Remote sensed shoal depth guidance	M	Publish S-4 Ed 4.3.0 August 2012	2011	2012	O	Sec CSPCWG	S-4	IHO CL 67/12
A.11	Clarify guidance on dredged/maintained areas	M	WG Ltr	2011	2013	O	Sec CSPCWG	S-4, INT1?	CSPCWG8-08.9A & Action 15. In discussion with Aus HO
B.3	Develop guidelines for preparation & maintenance of small / medium scale ENC schemes.	H	NSEHWG work plan item	2009	2013	O	Chair CSPCWG	S-11 / S-65 ?	Passed to NSEHWG for assistance.

D.23	'Development' dredged depths	M	Publish S-4 Ed 4.3.0 August 2012	2009	2012	O	Sec CSPCWG	S-4	IHO CL 67/12
D.26	Diving prohibited	M	Publish S-4 Ed 4.3.0 August 2012	2011	2012	O	Sec CSPCWG	S-4, INT 1	IHO CL 67/12
D 27	Revise guidance on Marine Farm limits	H	IHO CL for M/S approval	2011	2013	O	Sec CSPCWG	S-4, INT1	WG Ltr 6/12
D 28	Revise guidance on FPSO safety zones	M	IHO CL for M/S approval	2011	2013	O	Sec CSPCWG	S-4	WG Ltr 6/12
D 29	Clarify guidance on safe vertical clearances	M	IHO CL for M/S approval	2011	2013	O	Sec CSPCWG	S-4	WG Ltr 9/12
D 30	Guidance for post-disaster highlighting of new surveys	M	IHO CL for M/S approval	2011	2013	O	Sec CSPCWG	S-4	WG Ltr 6/12
D 31	Analysis of DQWG user questionnaire on quality indicators & symbols	M	WG members' responses to Ltr 7/12	2012	2013	O	Chair CSPCWG	S-4, INT 1	WG Ltr 7/12
E.1	Maintain official INT 1s		Next editions when planned				DE: S Spohn FR: O Parvillers ES: A Guitart	INT 1	English version 2011 (Ed 7) French version 2012 (Ed 5) Spanish version 2011 (Ed 4)
E.4	Symbols for vacant entries in INT 1	L	Review when A5.2 completed	2013		P	Sec CSPCWG	INT 1, S-4 part B	INT1 subWG next meeting
E.6	Maintain INT 3			2011	2011	C	Sec CSPCWG	INT 3	New edition 08/12/11
E7	Renumbered, see A11								
E8	Reorganize INT1 to exclude composite symbols	L	Next round of NEs of INT1			P	INT1 subWG	INT1	CSPCWG8-11.1A & Action 29

6.2 CSPCWG Meetings (IHO T2.3.1 refers)

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
1-3 Dec 09	IHB, Monaco	CSPCWG 6
23-26 Nov 10	Simon's Town, S Africa	CSPCWG 7
29 Nov–02 Dec 11	Turku, Finland	CSPCWG 8
13-16 Nov 12	Seoul, Rep of Korea	CSPGWG 9

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7. SNPWG WORK PLAN 2012-13

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 2.6.2 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 2012 and 2013 meetings of SNPWG (IHO Task 2.6.1 refers)

Task	Work Item	Priority H-high M-medium L-low	Start Date	End Date	Status P-Planned O-Ongoing C-Completed	Contact Person	Affected Pubs /Standard	Remarks
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Task	Work Item	Priority H-high M-medium L-low	Start Date	End Date	Status P-Planned O-Ongoing C-Completed	Contact Person	Affected Pubs /Standard	Remarks
B2	Model the data where required.	H	2004	Open	O	Chair/Sec SNPWG	S-100	To be included in NPUBS register
B3	Review of objects and attributes	H	2004	Open	O	Chair/Sec SNPWG	S-100	
B4	Propose amendments for Hydro register to TSMAD	H	2005	Open	O	Chair/Sec SNPWG	S-100	To be included in the Hydro register
B6	Populate the NPUBS Register	H	2006	Open	O	Chair/Sec SNPWG	S-100	
C1	Produce test data set	H	2009	2011	O	Chair/Sec SNPWG		
C2	Set up a test bed ECDIS	M	2009	2012	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 Classification Guide	H	2008	Open	O	Chair/Sec SNPWG		Document for NPs similar to Use of the Object Catalog
E2	Draft Sample Product Specification	H	2008	2009	C	Chair/Sec SNPWG		Issues remain to be addressed
E3	Draft MPA Product Specification	H	2010	2013	O	Vice Chair SNPWG	S-10X	Drafted in phases
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

7.2 SNPWG Meetings

Date	Location	Activity
7-9 Jun 2004	NOAA, Silver Spring, MD, USA	3 rd Meeting
1-3 Mar 2005	IHB, Monaco	4 th Meeting
24-28 Oct 2005	Copenhagen, Denmark	5 th Meeting
19-23 June 2006	IHB, Monaco	6 th Meeting
12-16 Feb 2007	Rostock, Germany	7 th Meeting
3-7 Sep 2007	IHB, Monaco	8 th Meeting
21-25 Apr 2008	Brest, France	9 th Meeting
23 -27 Feb 2009	NOAA Norfolk, VA, USA	10 th Meeting
7-11 Sep 2009	IHB, Monaco	11 th Meeting
21-25 June 2010	Tokyo, Japan	12 th Meeting
4-8 April 2011	Stavanger, Norway	13 th Meeting
13-17 Feb 2012	IHB, Monaco	14 th Meeting
12-16 Nov 2012	Helsinki, Finland	15 th Meeting

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8. DQWG WORK PLAN 2012-13

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 meeting 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)	Affected 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	O	USM	S-101	Assess USM input to DQWG7 for impacts on model.
C.3	Investigate with IMO how to add data quality into the training of mariners	H		2010		C	DQWG		DQWG concluded change is not relevant. See DQWG submission on IMO Model ECDIS course to HSSC4 (Doc. HSSC4-05.6C).
C.4	Investigate possible methods for how to educate practicing mariners on data quality issues	H	DQWG7	2010		O	DQWG		Investigate via IAIN additional data quality training.
D.1	Review current functionality in ECDIS with current products	H		2010	2011	C	Sam Harper	-	See IHO CL59/2012
E.1	Develop logic tree for alarms in current and proposed approaches.	H	DQWG7	2010		P	USM	-	Logic to be discussed following USM input to DQWG7.
E.2	Demonstrate methods to mariners	H	Follows USM stage 1.	2012	2013	P	USM	S-57, S-100	Build possible methods into ENC and ECDIS to demonstrate effectiveness.
F.1	Investigate areas of quality concern (other than survey / bathymetry)	M		2010	-	O	Eivind Mong	-	Investigate the merit of supplying quality attributes to other elements of ENC and other publications e.g. sailing directions.

8.2 DQWG Meetings

Date	Location	Activity
23 Sep 2008	Bath, UK	Kick-off meeting
20 Oct 2008	Portsmouth, NH, USA	1st Meeting
10- 11 May 09	Norfolk, VA, USA	2nd Meeting
5 Nov 2010	Rostock, Germany	3rd Meeting
14-17 Jun 2011	Helsinki, Finland	4th Meeting
15-18 Nov 2011	IHB, Monaco	5 th Meeting
24-26 Jul 2012	Silver Spring, MA, USA	6 th Meeting
Week starting 15 Jul 2013	Burlington, Canada	7 th Meeting

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9. MSDIWG WORK PLAN 2012-13

9.1 MSDIWG Tasks

A	Investigate methods for IHO to support MS' capability development in MSDI (IHO Task 2.9.2 refers)
B	Monitor national and international marine SDI activities and liaise to increase visibility (IHO Task 2.9.2 refers)
C	Identify and recommend possible solutions to significant technical issues related to interoperability (IHO Task 2.9.2 refers)
D	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 meeting of MSDIWG (IHO Task 2.9.1 refers)

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard
A.1	Add educational content to IHO Web site on MSDI	M	Set up schedule for presentations/papers from WG members/ others to be developed and offered via Web site for 2012 Post presentations/ papers	Oct 2011 Jan 2012	Dec 2011 Ongoing	P	Chair/Vice Chair; MSDIWG	
A.2	Investigate options through IHB to transition/integrate team to discussion forum group or group of experts	H	Compile list of options Make recommendations to HSSC	May 2012 Aug 2012	Aug 2012 Sep 2012	P	Chair/Vice Chair; MSDIWG	
B.1	Reissue 2008 questionnaire (updated) if appropriate	M	Review 2008 survey and determine possible gain from a second survey Prepare updated questionnaire Analyze and report on results	Oct 2011 Jan 2012 Jun 2012	Dec 2011 Mar 2012 Sep 2012	P	Chair/Vice Chair; MSDIWG	Results from 2008 survey (available from IHB)
C.1	Identify and make available MS Web sites/papers that address technical issues such as datums, Web services for charting data (e.g., WMS, WFS)	M	Poll WG members for input Work with IHB to place on IHO Web site Poll MS via questionnaire if reissued	Nov 2011 Feb 2012 Mar 2012	Ongoing Ongoing Aug 2012	P	Chair/Vice Chair; MSDIWG	
C.2	Prioritize data layers useful to non-navigational community	M	Establish top 20 list	Apr 2012	Jun 2012	P	Chair/Vice Chair; MSDIWG	S-57

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard
C.3	Liaise with TSMAD about S-100 use in support of SDI activities including INSPIRE	L	Determine if issues of concern exist in WG over new standards	Oct 2011	Dec 2011	P	Chair/Vice Chair; MSDIWG	
		L	Obtain feedback from TSMAD on MSDIWG group-established topics	Jan 2012	Feb 2012			

9.2 MSDIWG Meetings

Date	Location	Activity
4-5 Feb 2008	IHB, Monaco	1 st Meeting
10-11 Sep 2008	IHB, Monaco	2 nd Meeting
2-3 Apr 2009	IHB, Monaco	3 rd meeting
8 & 13 Sep 2011		Conference Calls
Jan/Feb 2013	Copenhagen, Denmark	4 th Meeting

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10. TWLWG WORK PLAN 2012-13

10.1 TWLWG Tasks

A	Maintain and extend Standard Tidal Constituent List (IHO Task 2.7.2 refers)
B	Develop, maintain and extend a Product Specification for Digital Tide Tables (IHO Task 2.7.3 refers)
C	Liaise with TSMAD on tidal matters and develop, maintain and extend a Product Specification for Dynamic Application of Tides in ECDIS (IHO Task 2.7.5)

	refers) and a 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 meeting of TWLWG (IHO Task 2.7.1 refers)

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
A.1	Maintain Standard Tidal Constituent List	H	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.	H	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	H	Prepare draft Standard	2009	2013	O	Stephen Gill* Chris Jones Zarina Jayaswal	
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	O O	ZarinaJayaswa* Stephen Gill Chris Jones Juan Fierro Ruth Farre Dan Pillich	

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
C.2	Develop a Standard for the transmission of real-time tidal data	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.	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.	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.	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	H	Review and feedback by 1 August 2012	2012	2013	O	David Wyatt	

10.2 TWLWG Meetings

Date	Location	Activity
27 – 29 April 2010	Stavanger, Norway	2 nd Meeting

5 – 7 April 2011	Jeju Island, Rep of Korea	3 rd Meeting
8 – 10 May 2012	Fish Hoek, South Africa	4 th Meeting
April/May 2013	To be decided	5 th Meeting

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11. HDWG WORK PLAN 2012-13

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	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
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	
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 2013 2014 2014	P P P P	All	
B6	Aquaculture – proposal from CSPCWG	H	a. Aquaculture	2011	2012 2013	P	All	

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
B7	CSPCWG	H	Phase of a navigational light	2011	2012 2013	P	All	
B8	TWLWG	H	Mean sea level	2011	2012 2013	P	All	
B9	SNPWG	H	Underkeel clearance/allowance	2011	2012 2013	P	All	
B10	IHB	H	Single Beam Echo Sounder	2011	2012 2013	P	All	
B11	UKHO	M	Seafloor	2012	2013	P	All	
B12	UKHO	M	Bathymetry	2012	2013	P	All	

11.2 HDWG Meetings (IHO WP Task 3.1.8 refers)

No meetings have taken place and none are planned

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12. ABLOS WORK PLAN 2012-13

12.1 ABLOS Tasks

A	Organise the 6 th ABLOS Conference in 2010 (IHO Task 3.6.1)
B	Contribute to the revision of IHO Publication C-51 "Technical Aspects of the Law of the Sea (TALOS) Manual" (IHO Task 2.12.3)
C	Prepare a standard training program on the hydrographic aspects of maritime delimitation. (IHO Task 3.6.3)
D	Organise and prepare the 7 th ABLOS Conference in 2012 and 8 th ABLOS Conference in 2014 (IHO Task 2.12.2)
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 2012 and 2013 (IHO Task 2.12.1)
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Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
A1	Organise 6 th ABLOS Conference	H		2009	2010	C	Chris Rizos, Ron Macnab, Chris Carleton, John Brown, Sunil Bisnath, Steve Shipman	N/A
B1	Review C-51 4 th Edition for any necessary updating.	H		2009	2011	C	Chris Rizos, Shin Tani, Ron Macnab, Graeme Blick, Sunil Bisnath and Steve Shipman	IHO Publication C-51
B2	Prepare draft 5 th Edition of C-51 (TALOS Manual) for adoption by Member States	H		2011	2012	O	Chris Rizos, Sunil Bisnath, John Brown, Chris Carleton, Shin Tani, Ron Macnab, Graeme Blick, Steve Shipman, I Made Andi Arsana, and Clive Schofield	IHO Publication C-51
C1	Prepare standard training programme for the CBSC	H	Outline programmes has been passed to the IHB Director responsible for CB activities.	2009	2010	C	Chris Carleton* John Brown Muhammad Bashir, Shin Tani, Ron Macnab, Steve Shipman	
D1	Organise the 7 th ABLOS Conference	H		2011	2012	P	Decision at ABLOS 18	
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	

12.2 ABLOS Meetings (IHO Tasks 3.1.16 and 3.6.1 refer)

Date	Location	Activity
4-5 Aug 2009	Bali, Indonesia	16 th Meeting
25-28 Oct 2010	IHB, Monaco	17 th Business Meeting and 6 th ABLOS Conference
8-11 Nov 2011	Valparaiso, Chile	18 th Business Meeting
October 2012	IHB, Monaco	19 th Business Meeting and 7 th ABLOS Conference

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