

HSSC3-09A

**3RD MEETING OF THE HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE
IHB, Monaco, 8-10 November 2011**

DRAFT HSSC WORK PLAN 2011-2012

Note: This draft WP has been compiled from the WG reports to HSSC-3, 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 – 2008-2012:

- Element 3.1 Meetings of Committees and Working Groups
- Element 3.3 Nautical Cartography and Marine Data Management
- Element 3.5 Data for Geomatics Application

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 2008-2012

A number of changes occurred in the IHO Work Programme 2008-2012 since its adoption by the 17th IH Conference in May 2007. Those affecting HSSC are summarized below:

- IHO Programme 3 "Techniques and Standards Co-ordination and Support" was changed to IHO Programme 2 "Hydrographic Services and Standards".
- CHRIS (Committee on Hydrographic Requirements for Information Systems) was replaced by HSSC (Hydrographic Services and Standards Committee) from 2009.
- CSMWG (Colours and Symbols Maintenance Working Group) was re-named DIPWG (Digital Information Portrayal Working Group) in 2008.
- HGMIO was withdrawn as an HSSC WG in 2008, which resulted in former Task 3.1.7 becoming inapplicable.
- IHO Publications M-4 and M-11 (re: former Task 3.3.1) were renamed S-4 and S-11, respectively, in 2009.
- IHO Publication M-15 (re: former Task 3.1.3) was discontinued in 2009.

These changes have been reflected in red colour in sections 2.1 to 2.3 below. The programme, element and task numbering, as in the IHO Work Programme agreed at the 2007 IH Conference, has been retained for convenience.

2.1 IHO Programme 3. Element 3.1 - Meetings of Committees and Working Groups**Objective**

Achieve the requirements of the IHO Work Program through the coordination and interaction of the relevant Committees and Working Groups.

- Task 3.1.1 Committee on Hydrographic Requirements for Information Systems (CHRIS [now, HSSC])**
The CHRIS [now, HSSC] Chairman, with the support of the IHB as needed, to organize, prepare and conduct the meetings scheduled annually 2008-2012, to coordinate and execute the detail of approved IHO WP items and to consider issues and provide guidance and advice to relevant organizations, bodies and MS.
- Task 3.1.2 Transfer Standard Maintenance and Application Development Working Group (TSMAD)**
The Chairman of the TSMAD WG under the guidance of CHRIS [now, HSSC] and with IHB support as needed, to organize, prepare and conduct the meetings scheduled each six months

during the period 2008-2012, to coordinate and execute the detail of approved IHO WP items and to consider issues and provide guidance and advice to relevant organizations, bodies and MS. To keep the following IHO publications updated: S-58, S-61, S-6562 and S-6463; this last one in coordination with CSMWG [now, DIPWG] and DPSWG. TSMAD Sub WGs, to meet as required.

Task 3.1.3 Chart Standardization and Paper Chart Working Group (CSPCWG)

The Chairman of the CSPCWG under the guidance of CHRIS [now, HSSC] and with IHB support as needed, to organize, prepare and conduct the meetings annually 2008-2012, to coordinate and execute the detail of approved IHO WP items and to consider issues and provide guidance and advice to relevant organizations, bodies and MS. ~~To keep IHO publication M-15 – List of Booklets on Chart Symbols updated.~~ CSPCWG Sub WGs to meet as required.

Task 3.1.4 Colours and Symbols Maintenance Working Group (CSMWG [now, DIPWG])

The Chairman of the CSMWG [now, DIPWG] under the guidance of CHRIS [now, HSSC] and with IHB support as needed, to organize, prepare and conduct the meetings annually 2008-2012, to coordinate and execute the detail of approved IHO WP items and to consider issues and provide guidance and advice to relevant organizations, bodies and MS. To keep IHO publication S-64 updated, in coordination with TSMAD and DPSWG.

Task 3.1.5 Standardization of Nautical Publications Working Group (SNPWG)

The Chairman of the SNPWG under the guidance of CHRIS [now, HSSC] and with IHB support as needed, to organize, prepare and conduct the meetings as required during the period 2008-2012, to coordinate and execute the detail of approved IHO WP items and to consider issues and provide guidance and advice to relevant organizations, bodies and MS. SNPWG Sub-WGs to meet as required.

Task 3.1.6 Data Protection Scheme Working Group (DPSWG)

The Chairman of the DPSWG under the guidance of CHRIS [now, HSSC] and with IHB support as needed, to organize, prepare and conduct the meetings as required during the period 2008-2012, to coordinate and execute the detail of approved IHO WP items and to consider issues and provide guidance and advice to relevant organizations, bodies and MS. ~~To keep IHO publication S-63 updated.~~

~~**Task 3.1.7 IHO-IEC Harmonizing Group on Marine Information Objects (HGMIO)**~~

~~The Chairman of the HGMIO under the guidance of CHRIS and with IHB support as needed, to organize, prepare and conduct the meetings as required during the period 2008-2012, to coordinate and execute the detail of approved IHO WP items and to consider issues and provide guidance and advice to relevant organizations, bodies and MS.~~

2.2 IHO Programme 3. Element 3.3 - Nautical Cartography and Marine Data Management

Objective

Facilitate worldwide quality nautical charting coverage to suit the needs of the mariner in support of safe and efficient navigation through the development of specifications and standards for the production, distribution and updating of cartographic products and supporting publications.

Task 3.3.1 Nautical Publications

Revise, develop and maintain the following IHO publications, with the support of consultants as required (2008-2012 ongoing):

- a) ~~S-4M-4~~ 2008-2012 ongoing
- b) ~~S-11M-11~~ 2008-2012 ongoing
- c) S-52 2008-2012 ongoing
- d) S-57 2008
- e) S-100 2008
- f) S-101 2012
- g) S-10X 2012
- h) INT 1, INT2 and INT3

Task 3.3.2 Digital Data Protection

CHRIS [~~now~~, HSSC] to provide support to users on the implementation and operation of the IHO data protection scheme S-63 (2008-2012). To develop and maintain S-63 with support for S-101 and other relevant specifications based on S-100 (2012). To provide IHB with support to operate the scheme as scheme administrator (2008-2012).

Task 3.3.3 Liaison and cooperation with other organizations.

CHRIS [~~now~~, HSSC] to develop and maintain contact with relevant organizations to harmonize standards, to avoid potential conflicts, to anticipate development and to maximise the quality and availability of adequate nautical products and services. To invite participants to attend appropriate IHO forums (eg. Open ECDIS Forum) and to participate in governmental and non governmental groups such as: IEC/TC80, ISO TC211, DGIWG, GSDI, ICA Commission on Spatial Data Standards, GNSS-ICG. (2008-2012)

2.3 IHO Programme 3. Element 3.5 - Data for Geomatics Application

Objective

Facilitate the optimal use of hydrographic data for purposes other than navigation.

Task 3.5.1 Development of Standards

CHRIS [~~now~~, HSSC] to develop processes under which Hydrographic Data and Exchange Products Specifications may be created under S-100. (2008-2009) To develop standards for coastal zone hydrographic surveys in support of coastal zone management, protection of the environment and natural hazards (e.g. tsunamis). (2008-2012)

Task 3.5.2 Maritime Spatial Data Infrastructure

CHRIS [~~now~~, HSSC] to monitor global geomatics development, especially those connected with coastal zone data management and the development of national, regional and global spatial data infrastructure and to provide guidance to MS as appropriate.(2008-2012)

3. TSMAD WORK PLAN

3.1 TSMAD Tasks

- A Maintain S-100 and Related projects
- B Keep S-58 Recommended ENC validation checks up to date (IHO O3.1.1 refers)
- C Support FAQ and encoding advice sections of IHO web site up to date (IHO O3.1.1 refers)
- D Develop Marine Environment Protection Programme based on S-100

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 Jan 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)		
A.2	Develop S-101 ENC product specification	M		2006	Jan 12	O	Julia Powell (NOAA)		
A.3	Investigate a suitable grid referencing system for S-100"	L		2010		O	Tony Pharaoh (IHB)		
A.7	Develop S-100 Bathymetric Content Specification.	H	1 st Draft 2010	2001		O	Wade Ladner (NAVO)		
A.8	Develop S-100 Portrayal Component	H		2006		O	CSMWG		
A.9	Develop an S-10X product specification for Auxiliary Informational Layer Integration.	M	1 st Draft 2010	2010		O	Lynn Patterson (CHS)		

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.10	Liaise with Non-IHO Constituents, e.g. Inland ECDIS, Marine Navigation Industry, DGIWG, AML, WMO Ice, and GIS Industry.	H		2004	-	O			
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 (IHO T3.1.2 refers)

TSMAD

Date	Location	Activity
29 Sep – 3 Oct 03	Wollongong, Australia	10th Meeting
11-12 November 04	IHB, Monaco	11 th Meeting
10-11 November 05	Wollongong, Australia	12 th Meeting
18-22 September 06	Wellington, New Zealand	13 th Meeting
4-8 June 07	UKHO, Taunton	14 th Meeting
14-18 January 08	IHB, Monaco	15 th Meeting
5-9 May 08	Cape Town, South Africa	16 th Meeting

TSMAD

8-12 September 08	Seattle, USA	17 th Meeting
4-8 May 2009	Ottawa, Canada	18 th Meeting
26-30 Oct 2009	Sydney, Australia	19 th Meeting
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

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4. DIPWG WORK PLAN

4.1 DIPWG Tasks

- A Maintain S-52 and its associated "Presentation Library" (IHO T3.3.1 refers)
- B Contribute to IEC TC80/WG13 symbol harmonizing work (IHO T3.3.3 refers)
- C Monitor Relevant International Standards (New Task)
- D Introduce new website based recommendation service for good application practice of S-52 (IHO T3.3.1 refers)
- E Contribute to harmonised rules for ENC loading strategy, use of SCAMIN and overscale indication
- F Assess the impact of other IHO standards on S-52 C&S regulations
- G Improving ENC Consistency/Loading strategies
- H Harmonisation of pick report presentation
- J Harmonisation with CSPCWG
- K Maintain the DIPWG bulletin and FAQ section on the IHO website
- L Investigate enhancing the appearance of existing traditional paper chart symbols used in ECDIS by modifying their size, shape and colour.
- M Provide technical assistance on Portrayal for S-10x related product specifications. ~~Develop symbology for portrayal of nautical publications in ECDIS~~ (Task scope broadened)

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.1 (2.4.1)	Resolve any problems or errors identified in S-52 and its Presentation Library as appropriate	H		2009	-	O	Colby Harmon Julia Powell	S-52	Continuing Work Item This addresses the routine maintenance of S-52.

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.4	Issue Maintenance Document No. 9 of S-52.	M		2011	2012	P	Colby Harmon	S-52	<p>Continuing Work Item</p> <p>It is expected that MD8 will:</p> <ul style="list-style-type: none"> - Minimum requirements for cursor enquiry and pick reports - Add "Unknown" as a valid enumerate value in the Presentation Library Look-up Tables to differentiate between unknown and unpopulated (null) attribute values. - Update Section 15 of the Presentation Library, which lists some older symbol names for symbols that had been replaced with newer versions and incremented symbol numbers in the current S-52, Annex A, Addendum.
A.5 (2.4.2)	Publication of a new Presentation Library Version 3.5	M		2012	2014	P	Colby Harmon	S-52	<p>New Work Item</p> <p>DIPWG has issued two maintenance documents against the current Presentation Library 3.4 (there will be three with the addition of MD9, described in A4 above). In light of the fact that S-57 and S-52 will be valid standards during this work program period, it is recommended that a new version of the Presentation Library be issued to incorporate the existing maintenance documents and any additional information to clean up the Presentation Library for the transition period to S-101.</p>

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
C.1 (2.4.7)	Monitor Relevant International Standards	L		2011	-	O	Colby Harmon Julia Powell	S-52 S-100 Portrayal Register	New 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)	In close liaison with TSMAD, set up a portrayal register within the S-100 registry Maintain S-100 Portrayal	H		2005	2012	O	Colby Harmon 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	2012	P	Colby Harmon Julia Powell UKHO	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 will include incorporating relevant portions of S-52.
F.4 (2.4.5)	Maintenance of S-101 Portrayal Component and Portrayal Catalogue	H		2012	-	O	Colby Harmon Julia Powell	S-101 S-100 Portrayal Register	New 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 will review and address, as appropriate, any changes in paper chart portrayal standards, in close coordination with TSMAD.

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
K.2	Maintain Chart Presentation Bulletins on the DIPWG page of IHO website	M		2008	-	O	Colby Harmon Michel Huet		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 Michel Huet		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)	Develop symbology for portrayal of nautical publications in ECDIS. Provide technical assistance on Portrayal for S-10x related product specifications.	M		2009	-	O	Colby Harmon		Continuing Work Item Assist SNPWG in developing symbols and associated rules and tables to facilitate the portrayal of nautical information 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 (IHO T3.1.4 refers)

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	16th 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

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5. DPSWG WORK PLAN

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.
- B Produce new edition of S-63 to complement S-101

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 (IHO T3.1.6 refers)

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

- *Objectives, Tasks and Work Items are pursued in accordance with IHO Work Programme 2008-2012, Programme 3 (Techniques and Standards Coordination and Support):*
 - *Element 3.1 Meetings of Working Groups:*
 - *Task 3.1.3 Chart Standardization and Paper Chart Working Group*
 - *Element 3.3 Nautical Cartography. In particular:*
 - *Task 3.3.1 Nautical publications*
 - *Task 3.3.5 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 Revise, develop and maintain Publication S-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts' (IHO T3.3.1 refers)
- B Revise, develop and maintain Publication S-11 'Catalogue of INT Charts' Part A (IHO T3.3.1 & T3.3.5 refer)
- D Development of new (and revised) symbology (IHO T3.3.1 refers)
- E Maintenance of S-4 supplementary publications INT 1, 2 & 3 (IHO T3.3.1 refers)

F Revise, develop and maintain S-49 'Recommendations concerning Mariners' Routing Guides' (IHO T3.3.1 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.5.1	Revise S-4 Part B Section 300-330	M	Next iteration	2010	2011	O	Sec CSPCWG	S-4 / B-300	WG Ltr 3/11
A.5.2	Revise S-4 Part B Section 340-390	M	WG Letter	2011	2011	O	Sec CSPCWG	S-4 / B-300	Draft in prep
A.6	Revise S-4 Part B Section 500	L	Completion of A.5	2011	2012	P	Sec CSPCWG	S-4 / B-500	Start after A.5
A.9	Revise S-4 A-400 & B-128	H	Include in S-4 4.2.0	2011	2011	O	Sec CSPCWG	S-4	WG7-Action 20. WG Ltr 8/11
A.10	Remote sensed shoal depth guidance	M	WG responses to WG Ltr 7/11	2011	2011	O	Sec CSPCWG	S-4	WG7-08.11 & Action 18. WG Ltr 7/11
B.3	Develop guidelines for preparation & maintenance of small / medium scale ENC schemes.	H		2009	2012	O	Chair CSPCWG	S-11 / S-65 ?	CHRIS Action 20/24
D.20	Virtual AIS	M		2009	2011	C	VC & Sec CSPCWG	S-4, INT 1	Included in S-4 4.1.0
D.21	Oscillating directional lights	M		2009	2011	C	Sec CSPCWG	S-4	Included in S-4 4.1.0
D.22	Floating wind turbines	M		2009	2011	C	Sec CSPCWG	S-4, INT 1	Included in S-4 4.1.0
D.23	'Development' dredged depths	M	WG responses to WG Ltr 7/11	2009	2011	O	Sec CSPCWG	S-4	WG7-INF3 & Action 19. WG Ltr 7/11
D.24	Floating waste bin	M		2009	2011	C	Sec CSPCWG	S-4	Included in S-4 4.1.0
D.25	Sub-surface obstructions (ODAS)	M		2009	2011	C	VC & Sec CSPCWG	S-4, INT 1	Included in S-4 4.1.0
D.26	Diving prohibited	M	WG responses to WG Ltr 7/11	2011	2011	O	Sec CSPCWG	S-4, INT 1	CSPCWG7-08.8 & Action 16. Based on SE national symbol
E.1	Maintain official INT 1s	n/a	Next round of revisions (new editions scheduled 2011)			C O O	DE: S Spohn ES: A Guitart FR: O Parvillers	INT 1	English version 2011 (Ed 7) Spanish version 2007 (NE in prep) French version 2006 (NE in prep)
E.4	Symbols for vacant entries in INT 1	L	Review when revision of S-4 completed			P	Sec CSPCWG	INT 1, S-4 part B	
E.5	Small craft symbols	H	Include in INT1 (FR & ES)			O	Sec CSPCWG	INT 1, S-4 part B	Included in S-4 4.1.0

E.6	Maintain INT 3	M	Publish NE	2011	2012	O	Sec CSPCWG	INT 3	New edition in prep in UK
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6.2 CSPCWG Meetings (IHO T3.1.3 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

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7. SNPWG WORK PLAN

7.1 SNPWG Tasks

- A. Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3)
- B. Define the content requirements of NP data intended for use in ECDIS (NP3)
- C. Test data
- D. Develop basic display rules for NP data intended for use in ECDIS (NP3)
- E. Draft guidance documents
- F. Revise technical resolutions as required
- G. Liaise with other HSSC WG's and other IHO and international bodies

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
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 (IHO T3.1.5 refers)

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

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Vice-chairman: Jens SCHRÖDER-FÜRSTENBERG, Germany

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8. DQWG WORK PLAN

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.
- B. Monitor and further develop quality indicators for hydrographic data.
- C. Review and revise as needed existing S-57 quality indicators, including the education of both the mariner and the cartographer, and the development of documentation.
- D. Review and revise as needed the presentation of data quality, as provided in S-52 and its Presentation Library.

- 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.
- F. Propose new data quality topics and other applications for consideration by HSSC.

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	Review ISO 19113, 19114 and 19115 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.1	Review what quality indicators are routinely populated in ENC by HOs	H	Questionnaire published to HOs	2009	2010	C	DQWG	-	Obtain base line of what attributes are captured and why others are not Completed CL17/2010.
B.2	Review how CATZOCs are populated by HOs for legacy data	H	Questionnaire published to HOs	2009	2010	C	DQWG	-	Obtain base line of what criteria for historic and current surveys result in what CATZOC allocation Draft sent to IHB August 2010.
B.3	Draft S-101 data quality	H	Report to TSMAD Feb 2012		2012	O	DQWG	S-101	Draft to be discussed during DQWG5, Nov 2011
C.1	Revise CATZOC definitions	H		2008	2009	C	DQWG	S-57	Completed CL32/2009
C.2	Review Resolution B1.2 of M-3	H		2009	2009	C	DQWG	M-3	Completed CL43/2009
C.3	Investigate via IMO how to add data quality into the training of mariners	H		2010		O	DQWG		
C.4	Investigate possible methods for how to educate practicing mariners on data quality issues	H		2010		O	DQWG		

D.1	Review current functionality in ECDIS with current products	H		2010	2011	O	Sam Harper	-	Questionnaire to understand mariners perception of data quality and how they react to it. Full analysis of questionnaire to be completed by mid September.
E.1	Develop logic tree for alarms in current and proposed approaches.	H	Requires B.1, B.2 and D.1 to be complete	2010	2011	O	DQWG	-	DQWG will make recommendations to DIPWG on how data quality can be portrayed to the mariner.
E.2	Demonstrate methods to mariners	H	Follows from E.1	2010	2012	P	DQWG	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	-	P	DQWG	-	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

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9. MSDIWG WORK PLAN

9.1 MSDIWG Tasks

- A Prepare IHO Road Map to support MS' capability development in MSDI
- B Monitor national and international marine SDI activities and liaise to increase visibility
- C Identify and recommend possible solutions to significant technical issues related to interoperability

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 Aug2012	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	M	Poll WG members for input	Nov 2011	Ongoing	P	Chair/Vice Chair; MSDIWG	

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
	technical issues such as datums, Web services for charting data (e.g., WMS, WFS)		Work with IHB to place on IHO Web site Poll MS via questionnaire if reissued	Feb 2012 Mar 2012	Ongoing Aug 2012			
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
C.3	Liaise with TSMAD about S-100 use in support of SDI activities including INSPIRE	L L	Determine if issues of concern exist in WG over new standards Obtain feedback from TSMAD on MSDIWG group-established topics	Oct 2011 Jan 2012	Dec 2011 Feb 2012	P	Chair/Vice Chair; MSDIWG	

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

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Vice-chairman: Vacant Email:
Secretary: Vacant Email:

10. TWLWG WORK PLAN

10.1 TWLWG Tasks

- A Maintain Standard Tidal Constituent List (IHO Work Programme 3.2.4 refers)
- B Prepare a Standard for Digital Tide Tables (IHOTC Report to the XVIIth IHC as adopted)
- C Liaise with TSMAD on tidal matters relevant to the Dynamic Application of Tides in ECDIS and develop a Standard of the transmission of real-time tidal data (Action HSSC1/18)
- ~~D Monitor and assist in the preparation of English translation of the Tidal Manual prepared by the Institut Océanographique and SHOM (IHO funded the translation from French to English)~~
- E 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.
- F Prepare and maintain an inventory of tide gauges used by Member States and to publish it on the IHO/TWLWG web site.
- ~~G Prepare structure and contents for a short course (maximum 5 days) on "Tides for hydrography" for the Capacity Building Sub Committee~~
- H Compare the tidal predictions generated as a result of analysis of a common data set using different analysis software.

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 2010	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	2011 2011 2011 2012	2012 2012 2012 2012	P	Chris Jones* Juan Fierro Stephen Gill Tor Tørresen Phil MacAulay Ruth Farre Kwan Chang Lim Japan?	
B.2	Prepare a Standard for Digital Tide Tables	H	Prepare draft Standard	2009	2012	O	Stephen Gill* Chris Jones	

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
							Zarina Jayaswal Ian Halls	
C.1	Liaise with TSMAD and DIPWG on tidal matters relevant to the Dynamic Application of Tides in ECDIS	H	Review Objects and Attributes required for water levels and streams (Passed to TSMAD April 2010) Prepare draft pages for Objects and Attributes. Prepare draft Product Specifications (S1**) for tidal data in S-100.	2009 2010 2012	2011 2012 2013	C O P	Ian Halls* Zarina Jayaswal Stephen Gill Chris Jones Juan Fierro Ruth Farre Dan Pillich Gigab Ha	
C.2	Develop a Standard for the transmission of real-time tidal data	H		2009	2012	O	Stephen Gill* Chris Jones Zarina Jayaswal Ian Halls Juan Fierro	
D.1	Provide advice to the translator preparing the English text of the Tidal Manual prepared by the Institut Océanographique and SHOM	H	Completion of translation into English.	2003	2011	C	Stephen Shipman ²	
D.2	Proof read the English translation of the Tidal Manual prepared by the Institut Océanographique and SHOM	H	Proof reading of the English text.	2009	2011	C	Stephen Shipman ² Glen Rowe Ruth Farre Dan Pillich Zarina Jayaswal Juan Fierro Stephen Gill Chris Jones	

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
							Chris Andreassen	
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. Definition of MSL approved for submission to HDWG. Work on the IHO resolutions ongoing.	2009	2012	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	Stephen Shipman* Stephen Gill	
G.1	Prepare structure and contents for a short course (maximum 5 days) on "Tides for hydrography"	H	Delivery of course structure to CBSC. (Passed to CBSC8 – June 2010)	2009	2010	C	Stephen Gill* Stephen Shipman	
H1	The study of long term data sets for the determination of global sea level rise.	H		2011	2014	O	Chris Jones Jose Quijano France	

10.2 TWLWG Meetings (IHO Task 3.1.11 refers)

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	Cape Town, South Africa	4 th Meeting

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11. HDWG WORK PLAN

11.1 HDWG Tasks

- A Review and update the definitions in the IHO Dictionary in French, English and Spanish. (HDWG ToR 1)
- B Liaise with other IHO bodies preparing publications containing glossaries. (HDWG ToR 3c)
- C Liaise with other organizations developing dictionaries and/or glossaries. (HDWG ToR 3d)

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.	MH	a. Terms 1 - 3	2010 2011	2011 2012	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	
B1	Review terms from former S-52 ECDIS Glossary which have not been included in the S-32 ECDIS Appendix for possible inclusion in S-32 (29 terms)	H	a. Terms 1 – 9 b. Terms 10 – 19 c. Terms 20 – 29	2010	2011	C	All	S-32 Appendix 1 (Formerly S-52 Appendix 3)
B4	Review of proposals from PRNW (New WNWWS) (16 terms)	H	a. Terms 1 – 16	2010	2011	C	All	
B5	Review of proposal from TSMAD regarding alignment of definitions in S-57 Object Catalogue. 58 proposals.	H	a. Terms 1 – 9 b. Terms 10 – 19 c. Terms 20 – 29 d. Terms 30 – 39 e. Terms 40 – 49	2010	2011	C	All	S-57 Appendix A Object Catalogue

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
			f. Terms 50–58					
B6	Aquaculture – proposal from CSPCWG	H	a. Aquaculture	2010 2011	2011 2012	P	All	
B7	CSPCWG	H	Phase of a navigational light	2011	2012	P	All	
B8	TWLWG	H	Mean sea level	2011	2012	P	All	
B9	SNPWG	H	Underkeel clearance/allowance	2011	2012	P	All	
B10	IHB	H	Single Beam Echo Sounder	2011	2012	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. EUWG WORK PLAN

12.1 EUWG Tasks

- A Guidance for the production of ENC updated data
- B Description of the delivery process and associated requirements
- C Writing of a revised S-65
- D Writing of a revised appendix 1 of S-52
- E RNW on ECDIS

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)	Affected Pubs/Standard	Remarks
A	Guidance for the production of ENC updates	H	Ongoing	01-2010	2010	C	Yves Le Franc Jeff Wootton Richard Coombes	S-65; S-52	
B	Description of the distribution/delivery process and associated requirements	M		09-2010	2011	C	Yves Le Franc Richard Coombes	S-65; S-52	Approximated timetable
C	Writing of a revised S-65	M		2010	2011	C	Yves Le Franc Richard Coombes	S-65; S-52	Approximated timetable
D	Writing of a revised Appendix 1 of S-52	M		2011	2011	C	Yves Le Franc Richard Coombes	S-65; S-52	Approximated timetable
E	RNW on ECDIS	M		2010		C			Liaise with other WG and follow progress

12.2 EUWG Meetings

The EUWG worked by correspondence only.

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13. ABLOS WORK PLAN

13.1 ABLOS Tasks

- A Organise the 6th ABLOS Conference in 2010 (IHO Task 3.6.1)
- B Maintain IHO Publication C-51 "Technical Aspects of the Law of the Sea (TALOS) Manual" (IHO Task 3.6.2)
- C Prepare a standard training program on the hydrographic aspects of maritime delimitation. (IHO Task 3.6.3)

- D Organise the 7th ABLOS Conference in 2012 (IHO Task 3.6.1)
- E Provide advice and guidance on the technical aspect of the Law of the Sea to relevant organizations, bodies and Member States. (IHO Task 3.1.16)

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	

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
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 (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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