CHRIS19-12A rev.1

## 19<sup>th</sup> CHRIS MEETING Rotterdam, Netherlands, 5-9 November 2007

## **CONSOLIDATED CHRIS WORK PLAN**

November 2007

## **Objective:**

To ensure efficient project resource management and alignment, progress monitoring and to provide a communication utility with internal and external parties.

## **Rationale:**

The justification for the CHRIS Workplan are in conformance with the IHO Strategic Plan, and mainly related to the following elements of the IHO Work Programme – 2003/07:

- 3.1. Nautical Cartography
- 3.4. Data for Geomatic Applications

## **Revisions:**

Chairs of each Working Group, along with the CHRIS Chair, will meet prior to each CHRIS meeting to review progress, and to harmonize the Workplan.

### Approval:

Once revised, the workplan will be approved by the CHRIS plenary at each annual meeting. CHRIS Chair could seek committee members interim approval for emerging issues between meetings.

## **Communications:**

The CHRIS Workplan 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 CHRIS meeting that approved the inclusion of the task will be identified in the CHRIS Work Plan summary. Each WG SubTasks will be numbered using an alphanumeric sequence, "An,Bn,Cn.."

### **Priorities:**

Three Levels of Priorities (H, M, and L) will be assigned by CHRIS using the Guidelines on the Evaluation of Proposals in the Work of CHRIS and Subsidiary Bodies.

# 1. Guidelines for the Evaluation of Proposed New work Items for CHRIS and its subsidiary bodies

### Introduction

- 1.1 In order to best use the limited resources available to CHRIS 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 CHRIS 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 CHRIS and its subordinate bodies?
  - d. is the objective achievable in the existing CHRIS 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 CHRIS 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 Work Group Chairs. Final endorsement of work item priorities will rest with CHRIS and be considered at the respective meeting.
- 2. CHRIS relevant elements of IHO Work Programme 2003-2007
- 2.1 IHO Programme 3. Element 3.1 Nautical Cartography
- O 3. 1. 1 Continuation of the co-operative work on development of ECDIS services, particularly:
  On-going refinement and expansion of specifications and standards through the CHRIS and its working groups, with links to the CSPCWG, IEC and ISO. [HP]
  - Participation in the regulatory, testing and certification aspects of ECDIS through the IMO/IHO HGE and IEC/TC80 in matters concerning ECDIS, RCDS, and ECS. [HP]
  - Develop contacts with the international bodies representing private industry [umbrella organizations], to reduce potential conflicts and to maximize quality and availability of adequate digital nautical products, by inviting their participation in appropriate IHO forums, and through IHO participation in non-government activities such as Open ECDIS Forum [OEF]. **[HP]**
- O 3. 1. 2 Participation in the development of standards for cartography and geographic information in association with groups such as DGIWG, ICA, IEC and ISO, in order to ensure that the interests of IHO members receive attention in the formulation of standards. [HP]
- O 3. 1. 3 Development of the international [paper] chart series through the relevant committees and bodies. [MP]
  - 3.1.3.1 Development of new symbology for ship routeing, including archipelagic sea lanes, vessel traffic services, environmentally sensitive areas, etc. **[MP]**
  - 3.1.3.2 Progress of the work of the Committee on the Standardization of Nautical Publications, (i.e. Sailing Directions and other nautical publications) and monitor the development of standard formats for Notices to Mariners. [MP]
  - 3.1.3.3 Resolution of issues concerning the extension of the INT chart scheme to include large scale charts. [MP]

## **Tasks**

- **T 3. 1. 1** Revise, develop, and maintain the following publications: S-52, S-57 New Editions [by 2006], M-4, M-11, [by 2003]
- 2.2 IHO Programme 3. Element 3.4 Data for Geomatics Application
- **O 3. 4. 1** Assist Member States to optimize and extend the use of their hydrographic data sets for purposes other than navigation through:

3.4.1.1 Development of generic product and service specifications. Investigate, through the Subgroup of TSMAD for Hydro Survey Data and Exchange, how to include these data as a part of S-57. **[HP]**.

## **Tasks**

T 3. 4. 2 Complete harmonization of IHO spatial data standards with ISO standards. [by 2006]

## CHRIS Workplan - Summary Table

CHRIS	Task	IHO	CHRIS	Projects	Priority *	Start	End	Remarks
WG		W.P.	Meeting			Date	Date	
TSMAD	A	T3.4.2	17	Develop S-100 based on ISO TC211 geo-spatial standards.	Н	2001	2007	No product specifications shall be developed unless specifically directed
TSMAD	В	O3.1.1	14	Keep S-58 Recommended ENC validation checks up to date.	Н	2002	Cont	
TSMAD	С	O3.1.1	14	Support FAQ and encoding advice sections of IHO web site up to date.	Н	2002	Cont	
TSMAD	D	T3.4.2	17	Develop S-57 Ed. 3.1.1 and revise ENC Product Specification.	Н	2005	2006	
TSMAD	Е	O3.1.4	19		M	2008	2009	
CSMWG	A	T3.1.1	14	Develop S-52 App. 2 "Colours and Symbols Specifications for ECDIS", Edition 4.2 and its Annex A "Presentation Library", Edition 3.3.	Н		2004	
CSMWG	В	O3.1.1	14	Contribute to IEC TC80/WG13 symbol harmonizing work.	Н		2004	
CSMWG	С	T3.1.1	14	Examination of S-52 main documents and annexes for redundant operational aspects of ECDIS.	M		2004	
CSMWG	D	O3.1.1	14	Introduce new website based recommendation service for good application practice of S-52.	M		na	
CSMWG	Е	O3.1.1	14	Contribute to harmonised rules for ENC loading strategy, use of SCAMIN and overscale indication.	M		2004	
CSMWG	F	T3.1.1	14	Assess the impact on S-52 C&S regulations of other IHO standards.	M		2004	
CSMWG	G		18	Improving ENC Consistency/loading strategies.	M	2005		
CSMWG	Н		17	Harmonisation of pick report presentation.	M	2006		
CSMWG	Ι		18	Develop Symbols for object and attribute enhancements of S-57 Edition 3.1.1.	M	2007	2007	
CSMWG	J		17	Harmonisation with CSPCWG.	M	2005		
CSMWG	K		16	Built a CSMWG bulletin and FAQ section on the IHO website.	M	2005		
DPSWG	A	O3.1.1	18	Complete IHO S-63 Data Protection Scheme documentation.	Н	2006	2007	
DPSWG	В	O3.1.1	18	Publish IHO S-63 and provide support.	Н	2003		
CSPCWG	A	T3.1.1	14	Revise, develop and maintain M-4.	M	2003	2008	Being revised by Sections
CSPCWG	В	T3.1.1	14	Revise, develop and maintain M-11, Part A.	M		2005	Integrate S-48. IHB to incorporate in M-11. IHO

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 $<sup>^*</sup>$  H = High, M = Medium, L = Low

CHRIS WG	Task	IHO W.P.	CHRIS Meeting Projects		Priority *	Start Date	End Date	Remarks
								CL 37/2005 refers.
CSPCWG	С	O3.1.3.2	15	Review requirement for standardization of International Notices to Mariners.	M	2003	2004	
CSPCWG	D	O3.1.3.1	15	Development of new symbology (including depiction of Fairways, AIS-equipped AtoN).	M	2004	2008	Fairway submission to CSPCWG 2
CSPCWG	Е	O3.1.1	14	Revise supplementary documents to M-4 (INT 1, 2, 3).	M	2003	2008	New edition of INT 1 published in 2005
SNPWG	A	O3.1.1	15	Decide on the Data Format of digital NPs intended for use in ECDIS.	Н	2003	2004	
SNPWG	В	O3.1.1	15	Define the content requirements of digital NPs intended for use in ECDIS.	M	2004	2009	
SNPWG	С	O3.1.1	15	Develop test data sets	Н	2008	2009	
SNPWG	D	O3.1.1	15	Develop display rules for digital NPs intended for use in ECDIS.	M	2008	2009	
SNPWG	Е	O3.1.1	15	Draft guidance documents.	Н	2008	2009	
SNPWG	F	O3.1.1	15	Revise technical resolutions as required.	Н	2007	2008	
SNPWG	G	O3.1.1	15	Liaise with other CHRIS WG's and other IHO and international bodies.	Н	2004		
HGMIO	A	O3.1.1	15	For each MIO category, describe the current status of development efforts (e.g., data or display-related).	M	2003	2008	
HGMIO	В	O3.1.1	15	For each MIO category, assess level of completion and further development required.	L	2003		
HGMIO	С	O3.1.1	15	Recommend to TSMAD and CSMWG on MIO-related matters.	L	2007	2008	

#### 3. TSMAD Work Plan

[Any remarks relevant to the understanding of the plan to be inserted here]

#### 3.1 **TSMAD Tasks**

- Develop S-100 based on ISO TC211 geo-spatial standards (IHO T3.4.2 refers) A
- Keep S-58 Recommended ENC validation checks up to date (IHO O3.1.1 refers) В
- Support FAQ and encoding advice sections of IHO web site up to date (IHO O3.1.1 refers) C
- Develop S-57 Ed. 3.1.1 and revise ENC Product Specification D
- Develop Marine Environment Protection Programme based on S-100 Е

Task	Work item	Priority *	Milestones	Start Date	End Date	Status **	Contact Person(s)	Affected Pubs/Standard	Remarks
A.1a	Develop S-100 Feature Dictionary component	Н		2001	Feb 06	С	Holger Bothien		Web interface launched
A.1b	Develop S-100 Feature Catalogue component	Н		2007	Dec 07	О	Holger Bothien		Committee Draft Stage
A.2	Develop S-101 ENC product specification	M		2006	Jan 12	О	Julia Powell, Richard Fowle		
A.3	Develop S-100 Imagery and Gridded Data component	Н		2001	Feb.06	С	Don Vachon		Needs evaluation against published ISO standard
A.4	Develop S-100 Time varying and 3-D data. component	Н		2001	Oct.04		Jim Radice		Deleted, absorbed into other work items.
A.5a	Develop S-100 metadata component	Н		2001	Dec 07	О	Tony Pharaoh		
A.5b	Develop S-100 quality metadata component	Н		2007	Jan 08		Dion Gaulton		
A.6a	Develop Application	Н		2001	Jan 08	О	Barrie Greenslade		

\*H = High, M = Medium, L = Low

\*\* P = Planned, O = Ongoing, C = Completed

Task	Work item	Priority *	Milestones	Start Date	End Date	Status **	Contact Person(s)	Affected Pubs/Standard	Remarks
	Schema component								
A 6b	Develop S-100 Framework Document	Н		2006	Dec 07	О	Barrie Greenslade		
A 6c	Develop S-100 Spatial Component	Н		2003	Sep 06	С	Barrie Greenslade		
A 6d	Develop S-100 Encoding Component	Н				О	Barrie Greenslade		
A.7	Develop S-100 Bathymetric Content Specification.	Н		2001		О	Lee Alexander		
A.8	Develop S-100 Portrayal Component	Н		2006		О	CSMWG		
A.9	Develop S-57 to paper chart functionality and Print-on-Demand (POD) file transfer guidelines.	М		2003		P	No current work item leader		Not Activated
A.10	Liaise with Non-IHO Constituents, e.g. Inland ECDIS, Marine Navigation Industry, DGIWG, AML, WMO Ice, and GIS Industry.	Н		2004	-	O			
B.1	Keep S-58 Recommended Validation Checks up to date	Н		2003	-	O	Guy Uguen		
C.1	Support FAQ and Encoding Bulletins	Н		2003	-	О	Jeff Wooton		
D	Develop S-57 Ed. 3.1.1 and revise ENC Product Specification	Н		2005	2006	С			
Е	Develop Marine Environment Protection Programme based on S- 100	M		2008	2009	О			

## **TSMAD**

Date	Location	Activity
29 Sep – 3 Oct 03	Wollongong, Australia	10th Meeting
11-12 November 04	IHB, Monaco	11 <sup>th</sup> Meeting
10-11 November 05	Wollongong, Australia	12 <sup>th</sup> Meeting
18-22 September 06	Wellington, New Zealand	13 <sup>th</sup> Meeting
4-8 June 07	UKHO, Taunton	14 <sup>th</sup> Meeting

## TSMAD Sub-WG

Date	Location	Activity
25-29 April 05	Univ. of NH, USA	8th Meeting
7-9 November 05	Wollongong, Australia	9 <sup>th</sup> Meeting
15-19 May 06	Brest, France	10 <sup>th</sup> Meeting
18-22 September 06	Wellington, New Zealand	11 <sup>th</sup> Meeting
27-1 December 06	Silver Spring, USA	12 <sup>th</sup> Meeting
23-27 April 07	Ottawa, Canada	13 <sup>th</sup> Meeting
17-21 September 07	Hamburg, Germany	14 <sup>th</sup> Meeting

## 4. CSMWG Work Plan

[Any remarks relevant to the understanding of the plan to be inserted here]

## 4.1 CSMWG Tasks

- A Develop S-52 App. 2 "Colours and Symbols Specifications for ECDIS", Edition 4.2 and its Annex A "Presentation Library", Edition 3.3 (IHO T3.1.1 refers).
- B Contribute to IEC TC80/WG13 symbol harmonizing work (IHO O3.1.1 refers).
- C Examination of S-52 main documents and annexes for redundant operational aspects of ECDIS (IHO T3.1.1 refers).
- D Introduce new website based recommendation service for good application practice of S-52 (IHO O3.1.1 refers).
- E Contribute to harmonised rules for ENC loading strategy, use of SCAMIN and overscale indication (IHO O3.1.1 refers).
- F Assess the impact on S-52 C&S regulations of other IHO standards (IHO T3.1.1 refers).
- G Improving ENC Consistency/loading strategies
- H Harmonisation of pick report presentation
- I Develop Symbols for object and attribute enhancements of S-57 Edition 3.1.1
- J Harmonisation with CSPCWG
- K Built a CSMWG bulletin and FAQ section on the IHO website

Task	Work item	Priority	Milestones	Start Date	End Date	Status **	Contact Person(s)	Affected Pubs/Standard	Remarks
A.1	Issue S-52, App.2, Edition 4.3; Annex A, Edition 3.4 and Addendum by application of Maintenance Document No. 5	M		2007	2008	P	Mathias Jonas Chris Roberts Julia Powell	S-52, App. 2, Annex A, Addendum	
A.2	Implementation of changed requirements of revised IMO ECDIS PS into S-52 C&S regulations	Н		2006	2008	P	Mathias Jonas Chris Roberts Julia Powell	S-52, App. 2, Annex A,	
F.1	Consideration of the implications of future S100/S101 on S-52 C&S regulations	М		2003		О	Mathias Jonas Julia Powell	S-52, App.2 S100	
F.2	In close liaison with TSMAD, set up a portrayal register within the S100 registry	M		2005		О	Mathias Jonas Pol Lebihan Julia Powell	S-52, App. 2 S100	
G.1	Contribute and attend to a loading strategy workshop organized by ECDIS industry	M		2005		P	Mathias Jonas	S-52, App.2	
H.1	Contribute to common work of SNPWG and other relevant organizations, for NP3 presentation.	M		2006		P	Mathias Jonas	S-52, App.2	
I.1	Adapt ECDIS chart 1 to PL Edition 3.4 by means of SYMINS mechanism			2007	2007	P	Mathias Jonas Olaf Wentzel	S-52, App. A	
J.1	Liase with CSPCWG	M		2005		0	Mathias Jonas	S-52, App.2 Annex	
K.1	Establish links at IHB server	M		2005		P	Michel Huet	S-52, App.2 Annex A	

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Date	Location	Activity
18-20 May 03	Ottawa, Canada	14 <sup>th</sup> Meeting
2-4 May 05	Rostock, Germany	15 <sup>th</sup> Meeting
29-31 May 06	IHB Monaco	16th Meeting
11-13 June 07	Stavanger, Norway	17 <sup>th</sup> Meeting

#### 5. **DPSWG Work Plan**

#### **DPSWG Tasks** 5.1

- Complete IHO S-63 Data Protection Scheme documentation (IHO O3.1.1 refers). Publish IHO S-63 and provide support (IHO O3.1.1 refers). Α
- В

Task	Work item	Priority *	Milestones	Start	End	Status **	Contact Person(s)	Affected
				Date	Date			Pubs/Standard
A.1	Prepare S-63 edition 1.1	Н	Draft available	01.09.06	01.11.07	С	Richard Coombes / Jonathan Pritchard, UKHO	S-63 edition 1.0
A.2	Prepare a comprehensive test data set for edition 1.1 .including full support for a multi supplier environment.	Н		01.09.06	15.12.07	P	Robert Sandvik, Primar	S-63 edition 1.0
A.3	Provision of S-63 edition 1.1 to IHB for publication.	Н		15.12.07	01.01.08	P	Robert Sandvik, Primar	S-63 edition 1.0
B.1	Provide S-63 technical and operational support to Data Servers and OEMs	Н		01.08.03		О	DPSWG members	S-63 edition 1.0/1.1

Date	Location	Activity
22-23 June 04	IHB, Monaco	Discuss feedback from industry and users and agree specific support activities.
		Review feedback on current S-63 documentation.
31 Aug – 1 Sept 05	IHB, Monaco	5 <sup>th</sup> Meeting
28-30 May 07	IHB, Monaco	6 <sup>th</sup> Meeting

<sup>\*</sup>H = High, M = Medium, L = Low

\*\*P = Planned, O = Ongoing, C = Completed

### 6. CSPCWG Work Plan

- Objectives, Tasks and Work Items are pursued in accordance with IHO Work Programme 2003-2007, Programme 3 (Techniques and Standards Support), Element 3.1 Nautical Cartography. In particular:
  - Task 3.1.1 the revision, development and maintenance of publications, including M-4 (Chart Specifications of the IHO & Regulations of the IHO for INT Charts) and M-11 Part A (Guidelines for INT Chart coordinators), including:
    - *Objective 3.1.1.1 the refinement and expansion of specifications and standards;*
  - Objective 3.1.2 the development of standards for cartography and geographic information;
  - Objective 3.1.3 the development of the international [paper] chart series, including:
    - Objective 3.1.3.1 the development of new (or revised) symbology and
    - *Objective 3.1.3.3 the extension of the INT chart scheme.*
  - Objective 3.1.4 Provide technical advice to Member States and users of IHO standards on cartographic systems and processes, and construction of national chart schemes
- 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, whilst drawing together, wherever possible, common issues of paper/digital charting.
- As a Plan it will and should evolve; accordingly, contributions from WG members and others are welcomed at any time. This version has evolved from that prepared for CHRIS 18; it shows progress since that plan, and includes draft plans (next milestones and dates) for continuing the work.

## 6.1 CSPCWG Tasks

- A Revise, develop and maintain Publication M-4 "Chart Specifications of the IHO & Regulations of the IHO for INT Charts".
- B Revise, develop and maintain Publication M-11 "Catalogue of INT Charts" (IHO T3.1.1 refers) Part A produced by CSPCWG. New format and content for M-11 agreed with IHB.
- D Development of new symbology (IHO O3.1.3.1 refers).
- E Maintenance of M-4 supplementary publications INT 1, 2 & 3.

Task	Work item	Priority	Milestones	Start Date	End Date	Status **	Contact Person(s)	Affected Pubs/Standard	Remarks
A.4	Revise M-4 Part B Section 400	Н	Revise and publish	2005	2008	О	Sec CSPCWG	M-4 / B-400	B-400 divided into subsections for manageability.
A.4.2	Sub-section B-430 to B-439				2007	С	Sec CSPCWG	M-4 / B-400	Published – IHO CL 51/2007 refers.
A.4.3	Sub-section B-440 to B-449	Н	IHO CL to MS	2006	2007	О	Sec CSPCWG	M-4 / B-400	3rd draft under consultation in WG
A.4.4.1	Sub-section B-450 to B-479	Н	WG Ltr for round 1	2007	2008	О	Sec CSPCWG	M-4 / B-400	1 <sup>st</sup> draft in prep with Sec/Chair
A.4.4.2	Sub-section B-480 to B-499	Н	WG Ltr for round 1	2007	2008	P	Sec CSPCWG	M-4 / B-400	Not started
A.5	Revise M-4 Part B Section 300	L	Completion of A.4			P	Sec CSPCWG	M-4 / B-300	Start after A.4 completed
A.6	Revise M-4 Part B Section 500	L	Completion of A.5			P	Sec CSPCWG	M-4 / B-500	Start after A.5
A.8	New specification for Chart Maintenance section	M	WG Ltr for round 1	2006	2008	О	Sec CSPCWG	M-4 / B-600	1 <sup>st</sup> draft in prep with Sec/Chair
A.9	Additional paragraph in B-100 re colour examples	L	MS approval	2006	2007	О	Sec CSPCWG, IHB	M-4 / B-100	IHO CL 58/2007 refers
A.10	Use of English on charts	Н	MS approval	2006	2007	О	Sec/Chairman CSPCWG	M-4	IHO CL drafted, not yet issued
D.5	Review requirement for Fairway symbology			2004	2007	С	Vice Chairman CSPCWG	M-4, INT 1	Included in A.4.2
D.7	Charted limits: styles, hierarchies, multi-feature lines			2005	2007	С	Sec CSPCWG	M-4 B-439	Included in A.4.2

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D.9	Develop new symbol for synchronized and sequential lights	M	WG Ltr for round 1	2005	2008	О	Sec CSPCWG	M-4, INT 1	Include in A.4.4.1
D.10	DGPS symbol			2005	2007	С	Sec CSPCWG	M-4, INT 1	IHO CL 51/2007 refers
D.11	Reporting line			2005	2007	С	Sec CSPCWG	M-4, INT 1	IHO CL 51/2007 refers
D.13	Mangroves	M	CSPCWG 4	2006	2008	О	AU (C Roberts)	M-4, INT 1	CSPCWG 3 action 13
E.1	New edition INT 1	Н	Publish Spanish language version		2007	0	DE: S Spohn FR: Y Le Franc ES: A Chans	INT 1	English language version published by DE 2005. French version published 2006. Spanish version scheduled for 2007.
E.2	New edition INT 2				2007	С	NL: M de Graaf	INT 2	Published 2007 & available on IHO website
E.4	Symbols for vacant entries in INT 1	L				P	Sec CSPCWG	INT 1, M-4 part B	For INT 1 subWG
E.5	Small craft symbols	L				Р	Sec CSPCWG	INT 1, M-4 part B	
E.6	INT abbreviations	M	CSPCWG 4	2006	2008	O	ES (A Chans) and FR (Y Le Franc)	INT1, M-4 part B	CSPCWG 3 action 31 discussed by INT1 subWG, further discussion required at CSPCWG4

**CSPCWG Meetings:** Date: 03-05 Nov 2004 Location: IHB Monaco. 1. 2. Date: 19-21 Oct 2005 Location: IHB Monaco.

Date: 22-24 Nov 2006 Location: IHB Monaco

Location: IHB Monaco **Next meeting:** 4. Date: 13-15 Nov 2007

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Secretary: Andrew Heath-Coleman.

## 7. SNPWG Work Plan

[Any remarks relevant to the understanding of the plan to be inserted here]

## 7.1 SNPWG Tasks

- A Decide on the Data Format of NP-data intended for use in ECDIS (NP3).
- B Define the content requirements of NP-data intended for use in ECDIS (NP3).
- C Develop test data sets
- 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 CHRIS WG's and other IHO and international bodies.

Task	Work Item	Priority	Start	End	Status	Contact	Affected Pubs	Remarks
		H-high	Date	Date	P-planned	Person	/Standard	
		M-medium			O-ongoing			
		L-low			C-Completed			
<b>A</b> 1	Decide on the Data	Н	2003	2004	C	Chair/Sec		NP3 Data should be encoded
	Structure of NPs-Data					SNPWG		as S-57-objects which were
	intended for use in							modeled in UML where
	ECDIS (NP3)							required.
A2	Look at existing	Н	2003	2004	C	Chair/Sec		
	systems on the market					SNPWG		
A3	Evaluate the pros and	Н	2003	2004	C	Chair/Sec		
	cons					SNPWG		
B1	Examine the content of	M	2004	2006	C	Chair/Sec		Which NPs and NP data type
	traditional NPs					SNPWG		should be included in NP3
B2	Model the data where	Н	2004	2008	О	Chair/Sec	S-100	To be included in NPUBS
	required.					SNPWG		register

В3	Review of objects and attributes	Н	2004	2008	О	Chair/Sec SNPWG	S-100	Review of objects and attributes
B4	Propose amendments for Hydro register to TSMAD	Н	2005	2008	О	Chair/Sec SNPWG	S-100	To be included in S-100 registry
В5	Create the NPUBS Register	Н	2006	2007	С	Chair/Sec SNPWG	S-100	
В6	Populate the NPUBS Register	Н	2006	Open	О	Chair/Sec SNPWG	S-100	
В7	Draft Product Specification	Н	2008	2009	P	Chair/Sec SNPWG	S-10X	
C1	Produce test data set	Н	2008	2009	P	Chair/Sec SNPWG		
C2	Set up a test bed ECDIS	M	2009	2009	P	Chair/Sec SNPWG		
D1	Develop basic presentation rules for NP data intended for use in ECDIS (NP3)	M	2008	2009	Р	Chair/Sec SNPWG	S52	Close Co-operation with CSMWG required
E1	Data Capture Guidance	Н	2008	2009	P	Chair/Sec SNPWG		Document for NPs similar to Use of the Object Catalog
F1	Revise technical resolutions	Н	2007	2008	P	Chair/Sec SNPWG	M3	
G1	Liaise with the CSMWG for the development of the display rules	Н	2005	Open	0	Chair/Sec SNPWG		
G2	Liaise with the TSMADWG	Н	2004	Open	О	Chair/Sec SNPWG		
G3	Liaise with other groups	Н	2004	Open	О	Chair/Sec SNPWG		Tides, MIO's, AML, ICE, Inland ECDIS

Date	Location	Activity
7-9 June 04	NOAA, Silver Spring, MD, USA	3 <sup>rd</sup> Meeting
1-3 March 05	IHB, Monaco	4 <sup>th</sup> Meeting
24-28 October 05	Copenhagen, Denmark	5 <sup>th</sup> Meeting
19-23 June 06	IHB, Monaco	6 <sup>th</sup> Meeting
12-16 Feb 07	Rostock, Germany	7 <sup>th</sup> Meeting
3-7 Sept 07	IHB, Monaco	8 <sup>th</sup> Meeting

## 8. DQWG Work Plan

This WG is being re-activated.

#### 9. **HGMIO Work Plan**

As a technical liaison Working Group that is a subsidiary of two Committees (IHO CHRIS and IEC TC80), the primary purpose of HGMIO is to harmonize the activities of IHO and IEC related to the provision and display of supplemental chart- and navigation-related information on ECDIS.

As agreed at HGMIO 2 (on 14 June 2003), the primary focus will be to assess the current status of previously developed or proposed IHO S-57 objects/attributes and display aspects for:

- Ice Information, Marine Environmental Protection, & Status of Aids-to-Navigation

Other potential topics for future investigation could include:

- Current Flow, Meterological, & Oceanographic

#### 9.1 **HGMIO Tasks**

- For each MIO category, describe the current status of development efforts (e.g., data or Α display-related).
- For each MIO category, assess level of completion and further development required. В
- $\mathbf{C}$ Recommend to TSMAD and CSMWG on MIO development-related matters

Task	Work item	Priority *	Milestones	Start Date	End Date	Status	Contact Person(s)	Related Pubs/Standard
A	Describe current status of development efforts							
A.1	Ice Information	M	Work Item agreed at HGMIO 2	Fall 03	2008	О	John Falkingham, Canadian Ice Services (Ottawa)	S-57 & S-52
A.2	Meteorological	L	Work Item agreed at HGMIO 2	Fall 03	unknown	P	Michel Huet (IHB) and Dan Pillich	S-57 & S-52
A.3	Tides/Water Levels	L	Work Item agreed at HGMIO 2	Fall 03	unknown	P	[vacant]	-
A.4	Oceanographic	L	Work Item agreed at HGMIO 2	-	-	-	[vacant]	-

<sup>\*</sup>H = High, M = Medium, L = Low

\*\*P = Planned, O = Ongoing, C = Completed

Task	Work item	Priority *	Milestones	Start Date	End Date	Status **	Contact Person(s)	Related Pubs/Standard
A.5	Current Flow	L	No tasking or volunteer	-	-	-	[vacant]	-
A.6	Aids to Navigation Status (e-ANSI)	M	Developed e-ANSI objects/attributes	Jun 05	Jun 08	О	Michel Huet (IHB)	S-57
A.7	Marine Environnemental Protection	Н	Developed Prototype Product Spec	Nov 07	Dec 07	O	Lee Alexander (UNH) & Cameron McLeay (CARIS)	S-57
C.1	Recommend to TSMAD MIO-related matters that warrant consideration related to product specifications	M	Proposed at CHRIS 19	Dec 07	Jun 08	P	Lee Alexander (Univ. of NH)	S-57, S-100
C.2	Recommend to CSMWG MIO-related matters related to portrayal	M	Proposed at CHRIS 19	Dec 07	Jun 08	P	Lee Alexander (Univ. of NH)	S-52, IEC 62288
C.3	Develop General Content Specification for MIOs	Н	Agreed to at HGMIO 4 <sup>th</sup> Mtg	Jan 07	Jun 07	С	Lee Alexander (UNH) & Cameron McLeay (CARIS)	S-57
C.4	Establish MIO Register for Product Specs and Portrayal	M	Proposed at CHRIS19	Dec 07	Dec 08	P	Lee Alexander (Univ. of NH)	S-57, S-52, S-100

Date	Location	Activity
14 June 03	IHB, Monaco	2 <sup>nd</sup> Meeting
27 June 05	IHB, Monaco	3rd Meeting
28 June 05	IHB, Monaco	e-ANSI (IALA) – MIO Workshop
22-23 May 07	Durham, NH, USA	4 <sup>th</sup> Meeting