

## Report of the CSPCWG to CHRIS19

### Chart Standardization and Paper Chart Working Group

**Submitted by:** Chairman, CSPCWG

**Related Documents:** CHRIS letter No. 1/2007 (call for WG reports)

**Related Projects:** not applicable

**Chair:** Peter Jones, UK

**Vice Chair:** Jarmo Makinen, Finland

**Secretary:** Andrew Heath-Coleman, UK

**Member States:**

Australia, Brazil, Canada, Chile, Colombia, Croatia, Cuba, Denmark, Finland, France, Germany, Greece, India, Indonesia, Italy, Japan, Netherlands, New Zealand, Norway, Pakistan, Russia, South Africa, Spain, Ukraine, UK, USA (=26).

**Expert Contributor Organisations:** none

*See Annex A for full details of membership*

#### Meetings Held During Reporting Period

1. CSPCWG3, 22-24 November 2006, held at IHB, Monaco.
2. CSPCWG INT 1 subWG, 18-20 April, held at EPSHOM, Brest.
3. (Planned CSPCWG4, 13-15 November, to be held at IHB, Monaco).

#### Work Programme

4. The programme is based on the priorities assigned within the detailed Work Plan (Annex B refers). Since CHRIS18, the principal activities have been:
  - M-4:
    - Edition 3.004, published July 2007, available on IHO website.
    - Part B (IHO Chart Specifications for national and INT medium- and large-scales):
      - Section 430-439 (harbours, tracks, routes): completely revised and updated. Approved by MS April 2007. (IHO CLs 8 & 51/2007)

- New Specifications for the reporting line (B-488) and DGPS station (B-481.5) symbols, approved by MS April 2007. (IHO CLs 8 & 51/2007).
  - Additional specifications for wrecks, chart seals and colour submitted for approval by MS (IHO CL 58/2007).
  - B-440 to B-449 actively in progress. (Covers national and international boundaries and limits, cables and pipelines, offshore production, aquaculture and various other areas).
  - B-450 to B-479 draft in preparation. (Covers aids to navigation: fog signals, beacons, buoys and lights).
  - New 'Maintenance section' for M-4 draft in preparation.
- INT 1, INT 2 & INT 3:
  - INT 1 subWG consists of WG members DE, ES and FR + Secretary. Meeting in April 07, with main aim to improve consistency between the three official language versions of INT 1. Some issues arising from the meeting will be referred to CSPCWG4 (Nov 2007).
  - New edition of French language version of INT 1 published by France in 2006, and available on IHO website.
  - New editions of Spanish and English language versions of INT 1 in preparation by Spain and Germany respectively.
  - New edition of INT 2 published by Netherlands in 2007 and available on IHO website.
- Symbols and abbreviations:
  - Synchronised and sequential lights: abbreviation 'sync' agreed by WG, subsumed into revision of M-4 B-470 in progress for submission to MS.
  - Emergency Wreck Buoy: symbol devised, in abeyance awaiting completion of IALA trial.
  - Change of term 'recommended anchorage' to 'reported anchorage' (INT1 N10).
  - Incorporation of 'triangle' symbol in limit of precautionary area permitted (INT1 M16).
  - One-way version of 'recommended route' symbol (INT1 M28.1).
  - Revised symbol for 'seaplane operating area' agreed by WG. To be submitted to MS for approval with revision of section B-440 to B-449.
  - Revised list of International abbreviations (INT 1 Section W) agreed by INT 1 subWG, for consideration at CSPCWG4.
- Provision of Advice:
  - Chairman and Secretary continue to provide responses to a variety of miscellaneous enquirers, including requests for advice from regional INT Chart coordinators and RHCs.

### **Progress on CHRIS Action Items**

CHRIS Action 18/6: Chairmen CSPCWG, TSMAD and CSMWG to include "Charting / Display of Emergency Wreck Marking Buoy" in the work programmes for their WGs, as a matter of urgency. Consequently:

The CSPCWG 3 meeting agreed that no action to correct M-4 and INT 1 should be taken until the IALA trial has been completed and reported. However, when the trial is completed and if the emergency wreck buoy is established as an IALA aid to navigation and with the proposed characteristics, then the following CSPCWG actions should be taken:

For INT 1:

- light and buoy colours to be arranged (Y & Bu)
- no action for section P (as the light character is a composite)
- add the topmark to Q9
- add buoy symbol, with light character 'Al.Oc(2)YBu.3s', at Q63
- add buoy symbol, with light character and explanation, at Q130.7.

For M-4 (if timing is right, these to be included when B-460/470 is revised):

- add topmark at B-463.1
- add an additional example at B-464.3 for stripes
- add an additional example at B-466.2 (after safe water)
- add blue to B-471.4.

CSPCWG3 agreed that an IHO CL should be issued to appraise M/S of the matter, and recommend Temporary Notice to Mariner action. IHO CL25/2007 was issued subsequently. CSMWG, TSMAD and IALA (via UK's Trinity House) were advised of the CSPCWG decisions.

The Chairman of the IALA Aids to Navigation Committee has recently informed CSPCWG that the trial of the emergency wreck buoy will continue to 2010; and that at least 12 countries were planning to use the buoy. Over this same period, IALA will undertake a review of the entire Maritime Buoyage System.

### **Problems Encountered**

5. Ongoing resource stretch at participating HOs and IHB, including:
  - Timely translation of M-4 revisions into French and Spanish.

### **Any Other Items of Note**

6. WG details, including letters, are posted on the IHO website.
7. Progress on the revision of M-4 Part B Section 400 is time-consuming due to the detailed nature of the specifications. 3 or 4 iterations of revised drafts are proving to be necessary. UK commits significant resource to support this activity, as do participating HOs in their detailed review of draft technical papers.
8. The volume of detailed input to CSPCWG's work is extensive and thanks are recorded to all contributor MS' representatives. Typically, 15 MS actively participate in the WG's deliberations. 11 MS (+IHB) attended CSPCWG 3.
9. Additionally, valuable advice is provided by CSMWG and TSMAD Chairs on request, enhancing the collaboration between the WGs. This understanding is further consolidated through the work of Chris Roberts (Australia) who has been active in advising and making valuable linkages across 3 WGs (CSPCWG, CSMWG, TSMAD).

### **Conclusions and Recommended Actions**

10. CHRIS 19 is invited to endorse the continued activity of CSPCWG.

11. The CSPCWG Work Plan was formally reviewed at CSPCWG3. An updated version is at Annex B. Following any direction or guidance from CHRIS19, this will be subject to further review and revision at CSPCWG4, November 2007.

### **Justification and Impacts**

12. Justification for the continued activity of CSPCWG is:

- To fulfil the remit of its Terms of Reference which includes:
  - Improving the standardization and currency of paper nautical charts;
  - Improving the guidance provided to nautical chart compilers, whatever the product's format, including support for 'Capacity Building';
  - Improving the interface and, where feasible, commonality of presentation between paper and digital chart products, whilst acknowledging their inherent differences.

13. Principle impact is the resource commitments of participating HOs (paragraphs 7-9 above refer)

### **Action Required of CHRIS**

14. The CHRIS is invited to:

- Note this report.
- Confirm that the WGs' actions taken regarding the IALA Emergency Wreck Buoy (CHRIS18 action 18/6 refers) is sufficient, noting the extended trial period.
- Endorse the Work Plan at Annex B.

## ANNEX A

### MEMBERSHIP OF CSPCWG

*(Updated 28 August 2007)*

<b>Member State</b>	<b>Name</b>	<b>Email</b>
Australia	Mr Chris ROBERTS	chris.roberts@defence.gov.au
Brazil	Miss Christina FRANCO DE LACERDA	christina@chm.mar.mil.br
Canada	Mr David PRINCE	PrinceD@pac.dfo-mpo.gc.ca
Chile	Lt John FLEMING	jfleming@shoa.cl
Colombia	Mr J T Alfredo GUTIERREZ	jselev@cioh.org.co
Croatia	Mr Radovan SOLARIC	radovan.solaric@hhi.hr
Cuba	Edenia Machín GONZÁLEZ	avisosshg@geocuba.co.cu
Denmark	Mrs Hanne BERG	hnb@kms.dk
Finland	Mr Jarmo MAKINEN ( <b>Vice-Chairman</b> )	jarmo.makinen@fma.fi
France	Mr Yves LE FRANC	yves.le.franc@shom.fr
Germany	Ms Sylvia SPOHN	sylvia.spohn@bsh.de
Greece	Ms Maria BIA	dcd@hnhs.gr
India	Mr SS CHAUHAN	inho@dataone.in
Indonesia	Capt Rusdi RIDWAN	infohid@indo.net.id
Italy	Cdr Enrico ANTONINO	iim.crt@marina.difesa.it
Japan	Mr IWABUCHI Yo	tooru-kajimura@kaiho.mlit.go.jp
Netherlands	Mr Maarten DE GRAAF	m.de.graaf@mindef.nl
New Zealand	Mr John SPITTAL	jspittal@linz.govt.nz
Norway	Mrs Inger TELLEFSEN	inger.tellefsen@statkart.no
Pakistan	Lt Cdr Iqbal AHMED	hydropk@bol.edu.pk
Russia	Capt Valery D. FOMCHENKO	gunio@homepage.ru
South Africa	Mr Malcolm NELSON	hydrosan@iafrica.com
Spain	Cdr Angel CHANS	ihmesp@fn.mde.es
Ukraine	Mr Oleg MARCHENKO	ukrmaps@ukrpack.net
United Kingdom	Mr Peter JONES ( <b>Chairman</b> )	peter.jones@ukho.gov.uk
United Kingdom	Mr Andrew HEATH-COLEMAN ( <b>Secretary</b> )	andrew.coleman@ukho.gov.uk
USA (NOAA)	Mr Robert HEELEY	robert.heeley@noaa.gov

**CSPCWG Work Plan**  
**(content reviewed at CSPCWG3, progress updated for CHRIS19 report at 28 August 2007)**

- *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.*

**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 (and revised) symbology (IHO O3.1.3.1 refers).
- E Maintenance of M-4 supplementary publications INT 1, 2 & 3.

Task	Work item	Priority*	Next Milestone	Start Date	End Date	Status**	Contact Person(s)	Affected Pubs/Standard	Remarks
A.4	Revise M-4 Part B Section 400	H	Revise and publish	2005	2008	O	Sec CSPCWG	M-4 / B-400	B-400 divided into sub-sections for manageability.
A.4.2	Sub-section B-430 to B-439				2007	C	Sec CSPCWG	M-4 / B-400	Published – IHO CL 51/2007 refers.
A.4.3	Sub-section B-440 to B-449	H	IHO CL to MS	2006	2007	O	Sec CSPCWG	M-4 / B-400	3rd draft under consultation in WG
A.4.4.1	Sub-section B-450 to B-479	H	WG Ltr for round 1	2007	2008	O	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	H	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	O	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	O	Sec CSPCWG, IHB	M-4 / B-100	IHO CL 58/2007 refers
A.10	Use of English on charts	H	MS approval	2006	2007	O	Sec/Chairman CSPCWG	M-4	IHO CL drafted, not yet issued
D.5	Review requirement for Fairway symbology			2004	2007	C	Vice Chairman CSPCWG	M-4, INT 1	Included in A.4.2
D.7	Charted limits: styles, hierarchies, multi-feature lines			2005	2007	C	Sec CSPCWG	M-4 B-439	Included in A.4.2
D.9	Develop new symbol for synchronized and sequential lights	M	WG Ltr for round 1	2005	2008	O	Sec CSPCWG	M-4, INT 1	Include in A.4.4.1
D.10	DGPS symbol			2005	2007	C	Sec CSPCWG	M-4, INT 1	IHO CL 51/2007 refers
D.11	Reporting line			2005	2007	C	Sec CSPCWG	M-4, INT 1	IHO CL 51/2007 refers
D.13	Mangroves	M	CSPCWG 4	2006	2008	O	AU (C Roberts)	M-4, INT 1	CSPCWG 3 action 13

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

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

E.1	New edition INT 1	H	Publish Spanish language version		2007	O	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	C	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				P	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

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

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

**CSPCWG Meetings:**

1.	Date: 03-05 Nov 2004	Location: IHB Monaco.
2.	Date: 19-21 Oct 2005	Location: IHB Monaco.
3.	Date: 22-24 Nov 2006	Location: IHB Monaco

**Next meeting:**

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

Chairman: Peter Jones  
Vice Chairman: Jarmo Makinen  
Secretary: Andrew Heath-Coleman.

Email: peter.jones@ukho.gov.uk  
Email: jarmo.makinen@fma.fi  
Email: andrew.coleman@ukho.gov.uk