17th CHRIS Meeting Rostock, Germany, 5-9 September 2005

REPORT OF THE CHART STANDARDIZATION AND PAPER CHART WORKING GROUP (CSPCWG)

Submitted by:	Peter Jones, UK
Executive summary:	Report on the work undertaken and progress made by the Chart Standardization and Paper Chart Working Group, since CHRIS16, and future plans.
Actions to be taken:	CHRIS to note the report, and endorse the future plans.
Related documents:	IHO CL 22/2005 CHRIS letter No. 1/2005
Related Projects:	Not applicable

- 1. **Officers** (no change since CHRIS16):
 - a. Chairman: Peter Jones (UK)
 - b. Vice Chairman: Jarmo Makinen (Finland)
 - c. Secretary: Andrew Heath-Coleman (UK)
- 2. **Membership**: See Annex A. There have been a few changes to individuals since CHRIS 16.
- 3. Meetings:
 - CSPCWG 1: The first WG meeting was held in Monaco, 3-5 November 2004. The report is available on the CSPCWG page of the IHO website
 - CSPCWG 2 is planned to be held in Monaco, 19-21 October 2005.
- 4. CHRIS 16 Actions (IHO CL 22/2005 refers):
 - Action 1: *Chair CSPCWG* to monitor the revision of the CSPCWG Terms of Reference, so as to align them with other CHRIS ToRs; to report back to CHRIS/17. Developed and agreed at CSPCWG 1; submitted to CHRIS Chairman 28/01/05. Copy at CHRIS 17-5.5B.
 - Action 10: Chair CSPCWG to amend the CSPCWG Work Programme by expanding CSPCWG scope to collate national criteria for issuing chart updating Notices to Mariners. CSPCWG 1 reviewed and updated the WG's Work Plan; it is maintained up to date, the latest iteration is at Annex B. Item A8 of the Work Plan refers and CSPCWG 1 action 15: WG members to supply any internal or published guidance on chart maintenance to the Secretary to help draft M-4 entry. See also 7c below.
- 5. **Progress**: See Annex B for summary of progress against Work Plan.

6. **WG Circular Letters** have been used to progress items by correspondence, as listed below. All CLs proposing substantive changes to symbology have been copied to the chairmen of other appropriate CHRIS WGs, to enable discussion and input from their members.

CL 09/2004 (further to CL 03/2004): Finalizing the draft 'Guidance for the Preparation and Maintenance of INT Chart Schemes', prior to circulation to IHO M/S.

CL 10/2004 (further to CL 04/2004): a summary of responses to CL 04/2004 and proposed way forward regarding symbols for Prohibited Areas and Inadvisable Activities.

CL 11/2004 (further to CL 02/2004): a revised draft for new turbine specifications.

CL 12/2004 (further to CL 06/2004): a revised draft revision for M-4 B-100.

CL 13/2004 (further to CLs 10 and 11/2004): summaries of the responses to CL 10 and 11/2004.

CL 14/2004 (further to CL 08/2004): closing Work Item C.1 'Review requirement for the Standardization of International NMs'.

CL 15/2004 (further to CL 05/2004): Information about CSPCWG 1.

CL 16/2004 (further to CL 13/2004): Invitation to vote on depiction of Wind Farm limits.

CL 17/2004: Revision of M-4 Section B-200 – 1^{st} draft.

CL 18/2004 (further to CL 12/2004): Further amendments to the draft revision of M-4 B-100.

CL 19/2004 (further to CL 15/2004): Distribution of CSPCWG 1 papers.

CL 20/2004 (further to CL 17/2004): Revision of M-4B-200 – 2nd draft.

CL 21/2004: Report of CSPCWG 1 and request to host CSPCWG 2.

CL 01/2005 : Venue for CSPCWG 2.

CL 02/2005: (further to CL 20/2004): Revision of M-4 B-200 – 3rd draft

CL 03/2005: (further to CL 01/2005): Date & venue for CSPCWG 2.

CL 04/2005: Proposal for the charting of AIS on aids to navigation.

CL 05/2005: Request for advice on the potential to develop M-4 as ISO Standard for Paper Nautical Charts.

CL 06/2005: Revision of M-4 B-400 to B-429 – 1st draft.

CL 07/2005 (further to CL 04/2005): Further discussion on the method for charting of AIS-equipped aids to navigation, for paper charts.

CL 08/2005 (further to CL 05/2005): Decision not to progress developing M-4 as ISO Standard, in accordance with WG members' comments.

- 7. Other matters :
 - a. **M-4**

- i. CSPCWG Secretary, with the assistance of UKHO, has prepared an improved English language digital version of M-4. This does not include substantive changes, but has made a more consistent layout, using 'InDesign' publishing software. A pdf version has been supplied to IHB and is now available on the IHO website. Future amendments to M-4 will be by replacement of the entire document, with each new version supplied on CD, which will be archived at IHB.
- ii. It has been agreed to remove section 600 (dealing with latticed charts) from M-4. IHO CL 41/2005 refers.
- iii. The revision of Part B section 100 has been completed and section 200 is well advanced. The revision of section 400 has now commenced, and will be progressed in instalments because of the size of the section.
- b. M-11: CSPCWG has produced new 'Guidance for the Preparation of International Chart Schemes' replacing the former S-48. This has been expanded to provide enhanced guidance than that originally intended only for Regional Co-ordinators. This document is called M-11 Part A and is now available on the IHO website. In due course it will be amalgamated with M-11, the INT Chart Catalogue.
- c. **International Notices to Mariners:** After extensive discussion, CSPCWG agreed that there is no current requirement for a series of International NMs (CSPCWG CL 14/2004 refers). However, it was agreed that there is merit in identifying and sharing the criteria used in the selection of data for NM action. A new work item A.8, to develop a section of M-4 covering chart maintenance, will include this in due course (included in Work Plan at Annex B).
- d. **New symbols:** New symbols and specifications for Archipelagic Sea Lanes (ASL), Environmentally Sensitive Sea Areas (ESSA), Wind and underwater turbines, and Entry Prohibited Areas have all been developed and approved by IHO M/S. IHO CL 01 & 14/2005 refer.
- e. **VTS:** the requirement to develop Vessel Traffic service guidance has not been identified from CSC papers. However, an outline proposal for a VTS area symbol was considered at CSPCWG 1, and will be further refined by Finland. It is proposed that a specification for any chart symbology should be developed when the relevant section of M-4 (B-480) is revised.
- f. **Fairways:** An outline proposal for a Fairway area symbol was considered at CSPCWG 1, and will be further refined by Finland.
- g. Wrecks: Wreck definitions will be reviewed during the revision of the relevant part of M-4 (B-420), already in progress. CSPCWG CL 06/2005 refers.
- h. **Other work items:** These are as listed on the Work Plan at Annex C. A new edition of INT 1 (Symbols and Abbreviations on Charts) has been published by Germany, thanks to BSH (particularly Sylvia Spohn). A new edition of INT 3 is in preparation in UK.

- i Advice has been provided by CSPCWG officers on the following matters:
 - i. The revision of INT 1, to Germany.
 - ii. Charting of vertical lights, to IHB.
 - iii. MEDINTCHART schemes, to the Chairman of Regional Charting Group Area F.
 - iv. Depiction of multibeam surveys on Source diagrams, to Brazil.
 - v. Numbering of INT charts in the Caribbean, to the Regional Charting Group.
 - vi. 'InDesign' desk-top publishing software, to Australia and IHB.
 - vii. The definitions of heights and elevations, to the Chairman of the IHO Tidal WG (& others).
 - viii. The charting of shipping channels, to Australia.
 - ix. The use of ISO 2-letter Country Codes, to Denmark.

Annexes:

- A. Membership
- B. Work Plan

CSPCWG report to CHRIS 17 Annex A

MEMBERSHIP OF CSPCWG

(Updated 23 June 2005)

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CSPCWG report to CHRIS 17 Annex B

CSPCWG Work Plan (updated to July 2005)

- 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, the objectives: 3.1.1.1 the refinement and expansion of specifications and standards; 3.1.2 the development of standards for cartography and geographic information; 3.1.3 the development of the international [paper] chart series, including development of new symbology (3.1.3.1) and the extension of the INT chart scheme (3.1.3.3); 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 (Catalogue of INT Charts).
- 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 produced for CHRIS 16; 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", including creation of digital version of M-4 (IHO T3.1.1 refers) *Revised digital version developed by UK and available on IHO website (April 2005)*.
- B Revise, develop and maintain Publication M-11 "Catalogue of INT Charts" (IHO T3.1.1 refers) Part A produced by CSPCWG and available on IHO website (April 2005). New format and content for M-11 agreed with IHB.
- C Review requirement for standardization of International Notices to Mariners (IHO O3.1.3.2 refers) Completed. Ffollow -on work item at A.8.
- D Development of new symbology (IHO O3.1.3.1 refers).
- E Maintenance of M-4 supplementary publications INT 1, 2 & 3.

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Task	Work item	Priority	Next Milestone	Start	End	Status	Contact Person(s)	Affected	Remarks
		*		Date	Date	**		Pubs/Standard	
A.2	Revise M-4 Part B Section 100		Publish	2003	2005	С	Sec CSPCWG	M-4/B-100	IHO CL 57/2005 (30 May 05)
A.3	Revise M-4 Part B Section 200	Н	Include M/S	2004	2005	0	Sec CSPCWG	M-4/B-200	IHO CL 40/2005 (deadline for
			feedback						responses 22 Jul 05)
A.4	Revise M-4 Part B Section 400	Н	Include WG	2005	2006	0	Sec CSPCWG	M-4/B-400	$CL 06/2005 - 1^{st} draft B-400-429;$
			feedback						section divided for manageability
A.5	Revise M-4 Part B Section 300	L	Completion of A.4	2006		Р	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			Р	Sec CSPCWG	M-4/B-500	Start after A.5
A.7	Revise M-4 Part B Section 600			2004	2005	C	Sec CSPCWG	M-4/B-600	Lattice charts obsolescent.
									Removed from M-4. IHO CL
									41/2005 refers (25 Apr 05)
A.8	New specification for Chart	L	Receipt of			Р	Sec CSPCWG	M-4	Position in M -4 to be determined.
	Maintenance section		responses to						To include NM criteria, print
			CSPCWG 1 Action						dates, thumb labels etc (B -252
			15	2 004	2007	~		26.44	round II comments refer)
B.1	Review S-48 and amalgamate		IHB to incorporate	2004	2005	C	IHB – M Huet	M-11	CSPCWG action complete – IHO
	within M -11		in M-11						CL 37/2005. IHB to incorporate in
<u><u>a</u> 1</u>					2004	~	at the capatra		M-11 and add to IHO web-site
C.1	Review requirement for the				2004	C	Chairman CSPCWG		Consultation completed; no
	standardization of International								requirement for INT NMs. See
	Notices to Mariners				2004	~	a cabaura		new action A.8
D.1	Review and develop depiction of			2003	2004	C	Sec CSPCWG	M-4/B-437, INT 1	IHO CL 01/2005 (4 Jan 05)
	ESSAs (including PSSAs &								
D 1	ATBAs)			2002	2004	C		N 4/D 422 424	HIO CL 01/2005 (4 L = 05)
D.2	Develop new symbology: ASLs			2003	2004	C	Sec CSPCWG	M-4/B-432, 434-	IHO CL 01/2005 (4 Jan 05)
D 2		T	D : CD 400	2005	2006	0	a caponia	436, INT 1	
D.3	Vessel Traffic Services guidance	L	Review of B-480	2005	2006	0	Sec CSPCWG	M-4/B-435 & 488	Requirement from IHC XVI,
									include review under A.4

*H = High, M = Medium, L = Low ** P = Planned, O = Ongoing, C = Completed

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D.4.1	Review and develop depiction of offshore wind farms (and other offshore renewables)			2004	2005	С	Sec CSPCWG	M-4, INT 1	IHO CL 14/2005 (2 Feb 05)
D.4.2	Review symbology for Restricted Areas (including Activities Inadvisable)			2004	2004	С	Sec CSPCWG	M-4, INT 1	IHO CL 01/2005 for Entry Prohibited (4 Jan 05). CL 13/04 summarised views on other propos als, none to be progressed at present; new work item required if re-submitted
D.5	Review requirement for Fairway symbology	М	Discuss at CSPCWG 2	2004	2006	0	Vice Chairman CSPCWG	M-4, INT 1	New submission from FI May 2005 for review at CSPCWG 2
D.6	Review Wreck depth definitions	М	Review of sub- section B-420 – see A.4	2005	2005	0	Sec CSPCWG	M-4, INT 1	NL previously supplied suggested wording to CSC, included in B - 420 draft revision
D.7	Charted limits: styles, hierarchies, multi-feature lines	L	Draft by AU	2005	2006	Р	C Roberts, AU	M-4B-439	CSPCWG 1 Action 21
D.8	Develop symbols for AIS- equipped AtoN	Н	Review WG responses to CL07/05	2005	2005	Ο	Sec CSPCWG	M-4, INT 1	H priority approved by WG responses to CL04/05.
E.1	New edition INT 1			2003	2005	С	S Spohn, DE	INT 1	Completed 18 Feb 05
E.2	New edition INT 2	М	Publication B - 200	2005	2006	Р	M de Graaf, NL	INT 2	CSPCWG 1 Action 33 – input required from WG members
E.3	New edition INT 3	М	Publication by UK	2005	2006	0	Sec CSPCWG	INT 3	NE in preparation by UK
E.4	Symbols for vacant entries in INT 1	L				Р	Sec CSPCWG	INT 1, M-4 part B	
E.5	Small craft symbols	L				Р	Sec CSPCWG	INT 1, M-4 part B	

* H = High, M = Medium, L = Low ** P = Planned, O = Ongoing, C = Completed

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

Location: IHB Monaco. Location: IHB Monaco.

Secretary: Andrew Heath-Coleman. Email: coleman.andrew@ukho.gov.uk