

7th CSPCWG Meeting
23-26 November 2010, Simon's Town, South Africa

**Report to HSSC2 of CSPCWG
(Chart Standardization and Paper Chart Working Group)**

Submitted by: Chairman, CSPCWG
Related Documents: IHO Circular Letter 29/2010 (2nd Meeting of the HSSC)
Related Projects: not applicable

Chair: Peter Jones, UK
Vice Chair: Jeff Wootton, Australia
Secretary: Andrew Heath-Coleman, UK
Member States: Australia, Brazil, Canada, Chile, Colombia, Denmark, Finland, France, Germany, Greece, India, Indonesia, Italy, Japan, Korea (Rep of), Latvia, Netherlands, New Zealand, Norway, Pakistan, Russia, South Africa, Spain, Sweden, Ukraine, UK, USA (=27).
Expert Contributor M Huet, IHB
Organisations: ESRI, Jeppesen

See Annex A for full details of membership

1. Meetings

- 1.1 CSPCWG6, 1-3 December 2009, Monaco.
- 1.2 Chairman attendance at MEDINTCHART meeting 16-17 February, Paris.
- 1.3 INT1 subWG, 16-17 June, Cadiz
- 1.4 Planned CSPCWG7, 23-26 November 2010, to be held in South Africa.

2. Work Programme

The programme is based on the priorities assigned within the detailed Work Plan (Annex B refers). Since HSSC1, the principal activities have been:

2.1 S-4 Chart Specifications of the IHO and Regulations for International (INT) Charts:

- Edition 3.007, published December 2009, included fully revised sections of B-480 to B-497 (completing the revision of section B-400, Hydrography and Aids to Navigation) and other approved changes as follows:

- B-151 Revised to take account of cancellation TR K1.1 and M-15 (Symbols booklets)
- B-297 Revised ZOC table (derived from supplement 2 of S-57 Edition 3.1)
- Edition 4.000, published September 2010 (CL 49 and 52/2010 refer) included completely new section B-600 (Chart Maintenance and NM System) and other approved changes as follows:
 - B-122 Additional International abbreviations DG, FAD, MRCC
 - B-381.5 and -B-381.6 New specifications for bridges
 - B-418.1 Additional symbol for unsurveyed areas
 - B-443.8 New symbol and specification for cable in a tunnel
 - B-444.5 New symbol and specification for pipeline in a tunnel
 - B-445.2f New specification for abandoned and disused platforms
 - B-445.12 New symbols for wave energy devices and wave farms
 - B-447.4 New symbol for shellfish beds

Note: Consequent on publication of B-600, the existing section A-400 will need revising (see new item A.9 in Work Plan).

2.2 INT 1, INT 2 & INT 3:

- INT 1 subWG consists of WG members DE, ES and FR + Secretary. Meeting convened in Cadiz principally to resolve differences between the three official INT1 versions and S-4.
- Current editions available on IHO website:
 - French language version of INT 1 published by France 2006
 - Spanish language version of INT 1 published by Spain December 2007
 - English language version of INT 1 published by Germany January 2008
 - Trilingual version of INT 2 published by Netherlands 2007
 - English language version of INT 3 published by UK December 2005.
- New editions of all official INT1s planned for 2011.

2.3 Chart specifications, symbols and abbreviations:

- The following new and revised symbols and specifications are currently under consultation with Member States:
 - Various facilities for small craft (leisure) users (CL39/2010 refers).
 - Improved Chart Accuracy note
 - Oscillating Directional lights
 - Floating wind turbines,
 - Intervals between symbols in area limits
 - Size and displacement of symbols
 - Floating waste bins

- Sub-surface ODAS instruments

2.4 S-11 Part A Guidance for the Preparation and Maintenance of International Chart Schemes

Following discussion at HSSC1, the model TOR / ROP for ICCWG has now been included in S-11 Part A, as Annex C. The resulting edition 2.003 was published March 2010.

2.5 S-49 Standardization of Mariners' Routeing Guides:

A completely revised version of the former S.P. No 49 has been published April 2010 as Edition 2.0 of IHO Publication S-49 - Standardization of Mariners' Routeing Guides (CL33/2010 refers). Thanks due to Germany for leading a subWG to guide this revision.

3. Progress on CHRIS20 and HSSC1 Action Items

CHRIS Action 20/24: Chair of CSPCWG to develop guidelines for preparation & maintenance of small / medium scale ENC schemes.

Unfortunately, little substantive progress has been made to date on this work item.

HSSC Action 1/24: IHB/CSPCWG Chair to incorporate ToR / RoP for Regional International Charting Coordination WGs, as contained in HSSC1-06.5C, in S-11 Part A, taking account the comments made by the committee.

Completed. (CLs 86/2009 and 23/2010 refer).

4. Problems Encountered

Ongoing resource stretch at participating HOs and IHB.

5. Any Other Items of Note

- 5.1 The volume of detailed input to CSPCWG's work is extensive; typically, 20 or more MS actively participate in the WG's deliberations (a notable increase from last year). Thanks are recorded to all contributor MS' representatives. 15 MS (+ IHB) attended CSPCWG6 in Monaco.
- 5.2 Additionally, valuable advice is provided by DIPWG and TSMAD Chairs on request, enhancing the collaboration between the WGs. AU's representative (Jeff Wootton) has also been invaluable in providing perspectives across the three WGs and in advising on the consequences of decisions for each.
- 5.3 CSPCWG now has two industry representatives (ESRI and Jeppesen).
- 5.4 Chairman and Secretary continue to provide responses to a variety of miscellaneous enquirers, including to regional chart coordinators (eg MEDINTCHART, see 1.2 above).

6. Conclusions and Recommended Actions

- 6.1 HSSC2 is invited to endorse the continued activity of CSPCWG.
- 6.2 CSPCWG's Work Plan was formally reviewed in detail at CSPCWG6, December 2009. An updated version is at Annex B. Following any direction or guidance from HSSC2, this will be subject to further review and revision at CSPCWG7, November 2010.

7. Justification and Impacts

- 7.1 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.
- 7.2 The principal impact is the resource commitments of participating HOs.

8. Action Required of HSSC

- 8.1 The HSSC is invited to:
- Note this report.
 - Endorse the Work Plan at Annex B.

ANNEX A

MEMBERSHIP OF CSPCWG (Updated 19 July 2010)

Member State	Name	Email
Australia	Mr Jeff WOOTTON (Vice-Chairman)	jeff.wootton@defence.gov.au
Brazil	LtCdr SEBASTIÃO Simões de Oliveira Cdr Francisco ROGÉRIO Ribeiro da Silva	sebastiao@chm.mar.mil.br rogerio@chm.mar.mil.br
Canada	Mr David PRINCE	Dave.Prince@dfo-mpo.gc.ca
Chile	Cdr Juan CUNEO	jcuneo@shoa.cl
Colombia	Capitán de Fragata Juan ACOSTA Chady	j.acosta@dimar.mil.com j.acosta@cioh.org.co
Denmark	Ms Nina GRAASBØL-SCHMIDT	ng@kms.dk
Finland	Mr Mikko HOVI	mikko.hovi@liikennevirasto.fi
France	Mr Olivier PARVILLERS	olivier.parvillers@shom.fr
Germany	Ms Sylvia SPOHN	sylvia.spohn@bsh.de
Greece	Ms Maria BIA	dcd@hnhs.gr
India	Dr BK RAMPRASAD	incho@dataone.in
Indonesia	Capt TRISMADI	infohid@indo.net.id or trismadi@lycos.com
Italy	Cdr Rosario LA PIRA	rosario.lapira@marina.difesa.it
Japan	Mr Satoshi SATO (contact via Dr Tatsuo KOMORI)	chart@jodc.go.jp
Korea (rep of)	Mr Insun PARK (contact via Mr Yong BAEK)	noripis@korea.kr ybaek@korea.kr
Latvia	Mr Mikus RANKA	Mikus.Ranka@lhd.lv
Netherlands	Mr Maarten DE GRAAF	m.de.graaf@mindef.nl
New Zealand	Mrs Carol KOHL Mr Adam GREENLAND	ckohl@linz.govt.nz agreenland@linz.govt.nz
Norway	Mrs Inger TELLEFSEN	inger.tellefsen@statkart.no
Pakistan	LtCdr Fayyaz ul Hassan BHATTI	hydroPk@paknavy.gov.pk
Russia	Capt Valery D. FOMCHENKO	main@gunio.ru
South Africa	Mr Malcolm NELSON	hydrosan@iafrica.com
Spain	Cdr José MILLÁN	ihmesp@fn.mde.es
Sweden	Mr Magnus WALLHAGEN	Magnus.Wallhagen@sjofartsverket.se
Ukraine	Mr Oleg MARCHENKO	ukrmaps@ukrpack.net
United Kingdom	Mr Peter JONES (Chairman)	peter.jones@ukho.gov.uk
United Kingdom	Mr Andrew HEATH-COLEMAN (Secretary)	andrew.coleman@ukho.gov.uk
USA (NOAA)	Mr Robert HEELEY	robert.heeley@noaa.gov
USA (NGA)	Miss Jacqueline BARONE	Jacqueline.barone@nga.mil
IHB	Mr Michel HUET	mhuet@ihb.mc
Industry		
ESRI	Craig GREENE	cgreene@esri.com
Jeppesen	Justin HORNBY	Justin.Hornby@jeppesen.com

CSPCWG Work Plan

(updated for HSSC2)

- *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.*

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' Routeing Guides' (IHO T3.3.1 refers)*

Task	Work item	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P-Planned O-Ongoing C-Completed	Contact Person(s)	Affected Pubs/Standard	Remarks
A.4	Revise S-4 Part B Section 400	H	S-4 Ed 3.007	2005	2009	C	Sec CSPCWG	S-4 / B-400	Included in S-4 Edition 3.007
A.5	Revise S-4 Part B Section 300	M	WG Letter	2010	2011	O	Sec CSPCWG	S-4 / B-300	Draft in preparation
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.8	New specification for Chart Maintenance Section B-600	M		2006	2010	C	Sec CSPCWG	S-4 / B-600	Included in S-4 Edition 4.000
A.9	Revise S-4 Part A Section 400	H		2010	2011	P	Sec CSPCWG	S-4	Consequent on publication B-600
B.2	Develop ToR / RoP for INT Chart Coordinators	H		2009	2010	C	Chair CSPCWG	S-11 Part A	Edition 2.003 approved by MS - CL 23/2010 refers
B.3	Develop guidelines for preparation & maintenance of small / medium scale ENC schemes.	M		2009	2011	O	Chair CSPCWG	S-11 / S-65 ?	CHRIS Action 20/24
D.14	Bridges (especially supports)	H		2008	2009	C	Sec CSPCWG	S-4	Included in S-4 Edition 4.000
D.15	Pipeline tunnel entrance	M	Include in INT 1 (2011)	2008	2010	C	Sec CSPCWG	S-4, INT 1	Included in S-4 Edition 4.000
D.16	Wave energy devices	M	Include in INT 1 (2011)	2008	2010	C	Sec CSPCWG	S-4, INT 1	Included in S-4 Edition 4.000
D.17	Unsurveyed areas	M	Include in INT 1 (2011)	2008	2010	C	Sec CSPCWG	S-4, INT 1	Included in S-4 Edition 4.000
D.18	Platform with superstructure removed	M	Include in INT 1 (2011)	2008	2010	C	Sec CSPCWG	S-4, INT 1	Included in S-4 Edition 4.000
D.19	Shellfish beds	M	Include in INT 1 (2011)	2008	2010	C	Sec CSPCWG	S-4, INT 1	Included in S-4 Edition 4.000
D.20	Virtual AIS	H	CL for MS	2009	2011	O	VC & Sec CSPCWG	S-4, INT 1	CSPCWG Letter 13/2010 refers
D.21	Oscillating directional lights	M	CL for MS	2009	2011	O	Sec CSPCWG	S-4	CSPCWG Letter 13/2010 refers
D.22	Floating wind turbines	M	CL for MS	2009	2011	O	Sec CSPCWG	S-4, INT 1	CSPCWG Letter 13/2010 refers
D.23	'Project' dredged depths	M	Further discussion required	2009	2011	O	Sec CSPCWG	S-4	CSPCWG Letter 13/2010 refers

D.24	Floating waste bin	M	CL for MS	2009	2011	O	Sec CSPCWG	S-4	CSPCWG Letter 13/2010 refers
D.25	Sub-surface obstructions (ODAS)	M	CL for MS	2009	2011	O	VC & Sec CSPCWG	S-4, INT 1?	CSPCWG Ltr 13/2010 refers
E.1	Maintain official INT 1s	n/a	Next round of revisions (expected 2011)			O	FR: O Parvillers ES: J Millan DE: S Spohn	INT 1	French version 2006 Spanish version 2007 English version 2008
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	L	MS Responses to CL39/2010			O	Sec CSPCWG	INT 1, S-4 part B	
E.8	Move part of INT1 K into L	L	Rejected			C	INT1 subWG	INT1	Discussed at CSPCWG6: item 11.8
F.1	Review S-49	M		2008	2010	C	DE (J Schröder-Fürstenberg)	S-49	S-49 Edition 2 published April 2010

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

Chairman: Peter JONES
Vice Chairman: Jeff WOOTTON
Secretary: Andrew HEATH-COLEMAN

Email: peter.jones@ukho.gov.uk
Email: jeff.wootton@defence.gov.au
Email: andrew.coleman@ukho.gov.uk