

INTERNATIONAL HYDROGRAPHIC
ORGANIZATION



ORGANISATION HYDROGRAPHIQUE
INTERNATIONALE

CHART STANDARDIZATION & PAPER CHART WORKING GROUP (CSPCWG)

[A Working Group of the Committee on Hydrographic Requirements for Information Systems – CHRIS]

Chairman: Peter JONES
Secretary: Andrew HEATH-COLEMAN

UK Hydrographic Office
Admiralty Way, Taunton, Somerset
TA1 2DN, United Kingdom

CSPCWG Letter: 04/2006

UKHO ref: HA317/010/031-04

Telephone:
(Chairman) +44 (0)1823 723343
(Secretary) +44 (0) 1823 337900 x 3057
Facsimile: +44 (0)1823 325823
E-mail: peter.jones@ukho.gov.uk
andrew.coleman@ukho.gov.uk

To CSPCWG Members

Date 24 July 2006

Dear Colleagues,

Subject: CSPCWG Information Papers

1. Those WG members present at CSPCWG2 (October 2005) will recall our discussions about the status of INT1, 2 and 3. We also discussed the means of coordinating the maintenance of the three official language versions of INT1. To take these two matters forward, I attach for your information:
 - Terms of Reference for a small ‘sub-WG’ for INT1 (Annex A). This has been agreed with the three members who have responsibility for the official language versions of INT1 (DE, ES, FR). The principal idea for this sub-WG is to share ideas and advice, and to coordinate maintenance as plans develop for revisions. The value of the sub-WG can be reviewed when we meet for CSPCWG3, November 2006.
 - A paper entitled ‘Status of IHO INT Charts INT1, INT2 and INT3’ which I have submitted to CHRIS18 (26-29 September 2006) (Annex B). This fulfils Action 8 from CSPCWG2. Due to the strict time schedule for CHRIS papers, I regret that I have not had time to circulate a draft of this paper to CSPCWG in advance. However, as with all CHRIS papers (which are now being loaded onto the IHB website, see > Committees > CHRIS), there is opportunity to provide comments in accordance with the CHRIS procedures. Equally, if you wish to make known your comments in a less formal manner then I will be in

attendance as your CSPCWG Chairman and will endeavour to represent your views if you make these known to me.

2. In preparation for CHRIS18, I am also obliged to report on the activity of CSPCWG since the previous CHRIS meeting (CHRIS17, September 2005). Please see my report at Annex C (this is also available on the IHB website, as above). It includes an updated version of the CSPCWG Work Plan. Again, if you have any comments I would be pleased to receive them.
3. I may have the opportunity to meet with some of you at CHRIS18 in Cairns, Australia. Alternatively, our next WG meeting, CSPCWG3, is not too far away and I encourage as many of you as possible to join us at the IHB, Monaco, 22-24 November 2006. Andrew and I will start preparing for this meeting shortly; this will be subject of separate messages.

Yours sincerely,



Peter G.B. Jones,
Chairman

Annexes:

- A. Terms of Reference for the INT1 subWG (v1.0, 12 July 06)
- B. Status of IHO INT Charts INT 1, INT 2 and INT 3 – paper to CHRIS18
- C. Report of CSPCWG to CHRIS18

TERMS OF REFERENCE
for the
INT 1 subWG of the
CHART STANDARDIZATION AND PAPER CHART W.G. (CSPCWG)

1. Objectives

To develop and maintain the three official language version of INT 1 ‘Symbols, Abbreviations, Terms used on Charts’ (i.e. English, French and Spanish).

2. Authority

The sub Working Group (subWG) is a subsidiary of CSPCWG and its work is subject to CSPCWG approval.

3. Procedures

- a. The subWG will conduct its business mainly by correspondence.
- b. The subWG will report to meetings of CSPCWG and will copy significant correspondence to all CSPCWG members, through the CSPCWG Secretary.
- c. The CSPCWG Chairman will review annually the outstanding issues and continuing need for the subWG.

4. Composition and Chairmanship

- a. Membership of the INT 1 subWG will consist of the French, German and Spanish CSPCWG members (as representatives of the Member States responsible for producing the three official language versions of INT 1) and the CSPCWG Secretary.
- b. There will be no Chairman. The CSPCWG Secretary will coordinate correspondence.

5. Tasks

- a. Co-ordinate the publication of new editions of INT 1.
- b. Co-ordinate the publication of updates via Notices to Mariners (NM, NtM).
- c. Develop a common policy for maintaining INT 1; advise and make proposals to CSPCWG.
- d. Develop improvements in consistency between versions (e.g. identify and seek to eliminate significant inconsistencies; work towards the inclusion of all INT symbols in each language version).
- e. Recommend INT 1 numbers for new INT symbols to CSPCWG.
- f. Advise CSPCWG on implications to INT 1 of proposed changes for M-4.
- g. Assess vacant entries (CSPCWG Work Item E.4).
- h. Consider the potential for developments of INT 1 to meet users’ needs (e.g. as a digital publication), advising CSPCWG accordingly.

Paper for Consideration by CHRIS 18

STATUS OF IHO CHARTS INT 1, INT 2 AND INT 3

Submitted by: CSPCWG (Chairman – Peter Jones, UK)

Executive Summary:

To pursue Ref A in order to seek guidance from CHRIS on the appropriate status of INT1, INT2 & INT3 and the practicalities of their maintenance.

Reference Documents:

- A. CSPCWG2 Action 8: *Prepare a paper ...on the status of INT 1, 2, 3, for presentation to CHRIS 18 (Sept 2006).*
- B. M-4: extract relating to these publications (Annex A).
- C. P-4: extract relating to these publications (Annex B).

Related Projects: Ongoing revision of M-4 by CSPCWG.

Introduction / Background:

1. At CSPCWG2 (Oct 05), a discussion on the status of INT 1, 2 and 3 arose out of:
 - Charges levied by a producer HO for the supply of reproduction material (repro-mat) to a MS;
 - Whether the documents could be made available on the IHO website;
 - 'Ownership' of the documents, in particular whether:
 - they conform to the normal regulations applying to International charts published by a MS (M-4 Part A); or
 - these publications are owned by, and published on behalf of, IHO.
 - Whether the documents simply supplement and illustrate M-4 or stand alone as independent, unconnected publications.
 - Whether, as part of IHO Chart Specifications, revisions of the documents should be subject to full MS review and approval (as is M-4).
2. Currently, the production status of the three items are as follows:
 - INT 1 - the official language versions (English, French and Spanish) are produced respectively by Germany, France and Spain.
 - INT 2 - is produced in a bilingual version (English / French) by Netherlands.
 - INT 3 – is produced in English only by UK.

In all cases, the documents include additional details necessary to fulfil the national needs of the producing HO. For example: a) the official English language version of INT 1 also includes German text and German national symbols; b) INT 3 includes examples of UK's national symbols. However, for INT 1 which is primarily a document for chart users, the producer HO must note

that their official language version may be used by *any* chart user conversant in the language or by other MS HOs (e.g. when adopting MS charts). This means that they need to fulfil a truly international role and not just one for their own nationals or within their own areas of national chart coverage.

3. M-4 (Ref B at Annex A) states that the three official language versions of INT 1 are *published by the IHO* (paragraph B151.1). INT 2 and INT 3 are stated to be *produced by* NL and UK (paragraphs B-152 and B-153 respectively).
4. Details printed in the individual documents are as follows:
 - INT 1
 - English (& German) language version is produced by Germany (Edition 2005); copyright BSH and *All rights reserved*. Both BSH and IHO seals are prominent.
 - French language version is produced by France (Edition 2002); copyright SHOM and *Tous droits reserves*. Both SHOM and IHO seals are prominent.
 - Spanish language version is produced by Spain (Edition 2002); copyright Spanish Ministry of Defence, with prohibition on reproduction. Spanish and IHO seals are prominent.
 - INT 2 (Edition 1990) states that it is published by the Netherlands Hydrographic Service on behalf of the IHO. There are no copyright statements and only an IHO seal. The Dutch language is not included.
 - INT 3 (Edition 2005) states that it is published by the UK Hydrographic Office for the IHO. Both UK and IHO seals are included. The chart also contains copyright legends and statements, but these may be regarded as examples of format rather than relating to the INT 3 product itself. (INT 3 also carries the UK chart number D6067 and is so included in its chart catalogue.)

Analysis / Discussion:

5. Alternative views on the status of these documents are:

Firstly:

- Each document is produced under the normal INT chart regulations specified in M-4 Part A
- Additionally, a limited quantity is made available by the producer nation to IHB for record purposes, issue to MS (and possibly sale by IHB).
- Ownership of the document remains with the producer nation.
- Therefore:
 - Requests from HOs to the producer nation for reproformat (analogue or digital) follow INT chart regulations, in particular M-4 A-500 and A-600.
 - Financial arrangements must be agreed bilaterally (A-601.1).
 - It is up to the producer to what extent, if at all, they allow their publication to be presented on the IHO website.
 - Revisions of the documents are undertaken by the producer nation, seeking advice as necessary, but are not subject to formal review (e.g. of content, accuracy) and approval by MS. (This mirrors the status of any other paper INT Chart.)

Secondly:

- Each document is produced by the volunteer MS HO on behalf of IHO
 - IHO are the *de facto* publishers and 'owners'. Therefore, content is subject to formal review and approval by MS (as for M-4, but unlike paper INT charts).
 - In accordance with:
 - P-4 (Ref C at Annex B), as implied, in that no acknowledgement is given to the producer nation.
 - M-4 B-151.1 (Ref B at Annex A), as implied, in statements relating to the three versions of INT 1 (but not similarly stated for INT 2 and INT 3).
 - However, in practice:
 - copyright is claimed by the producer nations of all three official language versions of INT 1 (that is, the opposite to the above guidance occurs)
 - INT 2 and INT 3 are stated to be produced on behalf of IHB or IHO.
6. As recognised at CSPCWG2, ideally a three-language version of INT 1, containing only internationally agreed and well-defined symbols and abbreviations, should be published by IHO. Similarly, all the symbols in this IHO-published INT 1 should be identical to the symbols in M-4. A single symbol set with associated text descriptions in the three languages is envisaged (an INT 1 subWG of CSPCWG is being established which may be able to look at the potential of such a development). Currently however, M-4 contains mainly UK symbols, while the three versions of INT 1 contain German, French and Spanish versions of the symbols, with the inevitable slight differences. A similar issue applies with INT 2 (which contains NL-style borders and scales) and INT 3 (which contains UK-style symbols – although, due to provenance, these agree with M-4 symbols).
7. Additionally, and whilst continually seeking improvements in standardization, it needs to be acknowledged that:
- there is very significant investment by HOs in paper charts (as guidance and symbols have been variously developed and interpreted by HOs over time);
 - there are resource and prioritisation issues where, despite slight symbology differences, there is no impact on safety of navigation (that is, circumstances where it is clear there is no danger that the chart user might be confused).
8. To achieve the perceived ideal, resource would need to be found to prepare and publish a three-language INT 1, and also for IHB to produce (or at least own) the actual symbols needed to populate INT 1, INT 2 and INT 3 (and M-4). Unless or until a HO is prepared to resource such production costs on behalf of IHO, or IHB as a Secretariat is able to produce such a document (and library of symbols) itself, the ideal unification may remain theoretical. For practical purposes, IHO remains dependant on the goodwill of the volunteer HO producers of the subject documents; this utilises their national publications as official IHO versions, whilst ownership remains with the producer.
9. Further, for INT 1, it is important to note that this publication is primarily for the (paper and raster) chart user to understand the symbols contained in charts and not for HOs. They may also be sold by the producer HO to offset production costs.

10. The status of INT 2 and INT 3 is different from INT 1, as there is only one official version of each document, and these state that they are produced *on behalf of* IHB/IHO. Essentially, they are primary guidance documents for HO chart producers. However, the issues of the use of national symbols and the dependence on the goodwill of the producer HOs remain.
11. To date, it is understood that these documents have been seen as integral supplements to M-4, illustrating and symbolising examples drawn from the textual descriptions contained in M-4. Many national documents pre-date M-4, either as publications for the information of the chart user (e.g. symbol sheets / booklets) or in the form of guidance instructions for chart compiler staff. However, ever since IHO first produced M-4, the subject documents have had a firm connection with the 'parent' M-4 document (e.g. column in INT 1 to cross reference the symbol to the text guidance paragraph; inclusion as rear cover inserts to the hard copy M-4 folder). But as the volunteer HOs have maintained their respective documents in differing timeframes, leading to some inevitable minor inconsistencies, this intimate linkage with M-4 has been a little undermined.
12. 'Equivalent' documentation relating to ENC construction, maintenance and symbology has a different provenance. (It is understood that practical usage of 'ECDIS Chart 1' in the user community is very limited.) Whether firmer links should be established between these standard reference products (i.e. those supporting ENC and paper), with potential impacts on consideration of their status, remains an open question. However, in respect of paper charts, it is clear that both text guidance and symbol 'keys' (including abbreviations and terms) are required to provide sufficient information to conduct the business of chart compilation and data interpretation; thus, they need to retain an intimate link.

Conclusions:

13. Although ideally these publications would be produced, published and owned by IHB on behalf of all IHO MS, it is understood that resources are not readily available for this purpose. For all practical purposes, the ownership of these documents remains with the producer HOs, who are also the publishers (i.e. in accordance with the 'first view' detailed at paragraph 5 above). The resources and goodwill provided by the volunteer HOs, enabling these documents to be used as official IHO publications, is critical to their continued maintenance and development.
14. In order to facilitate the continuing efforts to enhance the consistency between the subject documents and M-4, it is important to maintain the integral linkages between all these publications. CSPCWG, on behalf of IHO, will continue to guide and advise the volunteer producer nations in the maintenance and standards (e.g. content, accuracy) of these documents but will not subject them to a full MS formal review and approval process. In pursuance of this aim, a subWG of CSPCWG has recently been formed to enhance collaboration in the maintenance of INT 1.

Recommendations:

15. The existing situation, where individual publications produced by national HOs are regarded as IHO supplementary documents, works well enough for IHO MS' needs, despite slight flaws. This status should continue as long as the national HOs are prepared to offer this service to the IHO.
16. The wording of M-4 and P-4 should be adjusted to reflect this status more exactly.

17. The subject documents should continue to be seen as supplementary to M-4 and not as independent entities. CSPCWG will act as advisor to the producer nations but will not subject the documents to a formal MS approval regime.
18. If and when digital web-based versions emerge, the status of the subject documents should be reviewed again.

Justification and Impacts:

19. These include:

- Continued maintenance of subject documents with no change to current practice.
- Continued maintenance of subject documents with no additional effort or resources (providing volunteer HOs continue to support).
- Managed by CSPCWG (& its subWG for INT 1).
- 'Medium' priority in pursuance of enhanced standardization in charting.
- Related to the current revision of M-4 and, as required, the development of new symbology for charts.
- Although the documents themselves are not subject to full MS review, new symbology continues to be given full visibility through IHO CLs.

Action Required of CHRIS18:

20. CHRIS 18 is invited to endorse the above recommendations.

EXTRACT FROM M-4**B-150 ASSOCIATED PUBLICATIONS**

A number of other publications are supplementary to these Specifications. They are available from the IHB. They include INT 1, INT 2 and INT 3, the content of which are detailed in the following paragraphs. For the latest edition dates, and details of publications related to digital charts, see P-4, Catalogue of IHO Publications.

B-151 INT 1 — SYMBOLS, ABBREVIATIONS, TERMS USED ON CHARTS

INT 1 provides the chart user with a key to symbols and abbreviations used on paper charts compiled in accordance with the Chart Specifications of the IHO. Although INT 1 may be used by cartographers as a quick reference, these Specifications must be used for detailed guidance. Cross references to the relevant specifications in M-4 Part B are included in the right-hand column of INT 1.

B-151.1 Each Hydrographic Office's list of symbols and abbreviations must be arranged according to Chart INT 1, which follows the system used in M-4 'Chart Specifications of the IHO'. Three official language versions of INT 1 are published by the IHO:

- English - produced by Germany
- French - produced by France
- Spanish - produced by Spain

The reference numbering in national symbols and abbreviations lists must correspond to that used in the official Chart INT 1, with letters used for any additional national items. The lettered entries for national symbols may be placed in the list in an appropriate position or collated at the end of each section or sub-section. One column should be used to show those symbols and abbreviations that have been internationally agreed, with a second column showing national symbols where different, or where no internationally-agreed symbol yet exists.

All numbered items included in INT 1 should be shown in each nation's standard list, including in their proper place those terms for which the nation concerned has no symbol or abbreviation. This will enable a navigator who possesses a standard booklet, written in a familiar language, to interpret foreign standard booklets.

An index of all abbreviations used should be given in alphabetical order as in INT 1 Section V, with cross references showing the section and number.

The list of symbols and abbreviations is most conveniently published in the form of a booklet, although a sheet format may be used.

The list of symbols and abbreviations should be kept up to date by means of Notices to Mariners, particularly for the introduction of new symbols.

Technical Resolution K1.1 resolves that the IHB must compile a list of the sheets of chart symbols and abbreviations produced by the various nations and distribute this list to Member States. Until 1992, the list constituted a separate publication (MP-008). From 1993-1999, it was published in the IH Bulletin at the beginning of each year. From 2004, it has been published as M-15, 'List of Booklets on Chart Symbols and Abbreviations Published by Various Maritime Nations', posted on the IHO

website and amended from time to time.

B-152 INT 2 — BORDERS, GRADUATION, GRIDS AND LINEAR SCALES

INT 2 shows specimens of the various patterns of border graduation and linear scales. INT 2 is produced by The Netherlands.

B-153 INT 3 — USE OF SYMBOLS AND ABBREVIATIONS

INT 3 is a standard reference chart of a fictitious area with as many examples as possible of the use of these Specifications (M-4 Part B and Part C). INT 3 is produced by UK.

EXTRACT FROM P-4 (ABOUT M-4)***CATALOGUE OF THE IHO PUBLICATIONS
PUBLISHED BY THE INTERNATIONAL HYDROGRAPHIC BUREAU***

6

**M-4 REGULATIONS OF THE IHO FOR INTERNATIONAL (INT) CHARTS
AND CHART SPECIFICATIONS OF THE IHO**

Gives chart specifications of the IHO for compiling nautical charts, together with agreed symbols and abbreviations adopted for general use by Member States. Provides also Regulations for INT Charts. Produced in 3 parts as shown below.

Part A - Regulation of the IHO for International (INT) Charts

Part B - IHO Specifications for Medium- and Large-Scale Charts (larger than 1:2M)

Part C – IHO Specifications for Small-Scale Charts (1:2M and smaller)

Originally published in 1988. Regularly maintained. Current version updated to... English, French and Spanish versions.

Ref: M-4 100 Euro

IHO Website, CD-Rom, Printed (Loose-leaf with hard binder)

M-4 is supplemented by 3 publications INT 1, INT 2 and INT 3, which are described below. Each supplement (INT 1, INT 2 or INT 3) separately: 20 Euro

Chart INT 1 - Symbols, Abbreviations and Terms used on Charts

Provides the chart user with a key to symbols, abbreviations and terms used on charts compiled in accordance with the "Chart Specifications of the IHO". English, French and Spanish versions.

Chart INT 2 - Borders, Graduations, Grids and Linear Scales

Shows specimens of the various patterns of border graduation and linear scales. Bilingual English/French.

Chart INT 3 - Use of Symbols and Abbreviations

A standard reference chart of a fictitious area with as many examples as possible of the use of these Specifications. English only.

IHO Website, CD-Rom, Printed

Report of the CSPCWG to CHRIS 18

Chart Standardization and Paper Chart Working Group

Submitted by: Chairman, CSPCWG

Related Documents: CHRIS letter No. 1/2006 (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, Russia, South Africa, Spain, Ukraine, UK, USA (=25).

Expert Contributor Organisations: none

See Annex A for full details of membership

Meetings Held During Reporting Period

21. CSPCWG2, 19-21 October 2005, held at IHB, Monaco.

22. CSPCWG3, 22-24 November 2006, planned at IHB, Monaco.

Work Programme

23. The programme is based on the priorities assigned within the detailed Work Plan (Annex B refers). Since CHRIS17, the principal activities have been:

- M-4:
 - Edition 3, published October 2005. Version 3.002 November 2005 is currently posted on the IHO website; v3.003 is in preparation at IHB.
 - Part B (IHO Chart Specifications for national and INT medium- and large-scales):
 - Section 200 (chart framework): completed and approved by MS, September 2005.
 - Section 400-429 (hydrography, depths, dangers): completed and approved by MS, June 2006.

- Section 430-439 (harbours, tracks, routes): actively in progress.
 - B-131: standard format for quoting Geographic Positions approved by MS, June 2006.
- INT 1, INT 2 & INT 3:
 - New edition of French language version of INT 1 in preparation by France.
 - New edition of INT 3 published by UK, December 2005.
 - Notification of maintenance issues relating to these documents are now posted on the IHO website (e.g. NtM for INT 1).
 - A separate paper has been tabled for CHRIS18 consideration, *Status of IHO Charts INT 1, INT 2 and INT 3*.
- Symbols:
 - AIS on navigational aids: completed and approved by MS, December 2005.
 - Synchronised and sequential lights: discussion with IALA ongoing.
 - Port Entry Lights (PEL): advice provided to C&SMWG.
 - Emergency Wreck Buoy: consideration of IALA trial of new navaid.
- Provision of Advice:
 - Chair / Sec 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

24. No actions directly assigned.

25. 17/9/2: *CHRIS Chair to provide the current work plan to WG Chairs for review, prior to CHRIS18*. Agenda Item 8.2 refers (Review of CHRIS Work Plan).

Problems Encountered

26. Ongoing resource stretch at participating HOs and IHB, including:

- Delay in the take-up by Netherlands of the planned revision for INT 2.
- Timely translation of M-4 revisions into French and Spanish.

Any Other Items of Note

27. WG details, including letters, are posted on the IHO website.

28. 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. Examples of extended drafting have included the topics of wreck depths, fairways and multi-feature lines.

29. 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 CSPCWG2.

30. Additionally, valuable advice has been received from C&SMWG Chair on numerous matters, enhancing the collaboration between the WGs. This understanding is further consolidated through the work of Chris Roberts

(Australia) who is active in advising and making valuable linkages across 3 WGs (CSPCWG, C&SMWG, TSMAD).

31. A sub-WG has been established to facilitate the coordination between, and the advice available to, the respective volunteer HOs in their maintenance of the 3 official language versions of INT 1 (comprising DE, FR, ES, WG Sec).

Conclusions and Recommended Actions

32. CHRIS 18 is invited to endorse the continued activity of CSPCWG.
33. The CSPCWG Work Plan was formally reviewed at CSPCWG2. An updated version is at Annex B. Following any direction or guidance from CHRIS18, this will be subject to further review and revision at CSPCWG3, November 2006.

Justification and Impacts

34. Not applicable.

Action Required of CHRIS

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

ANNEX A

MEMBERSHIP OF CSPCWG

(Updated 21 July 2006)

Member State	Name	Email
Australia	Mr Chris ROBERTS	chris.roberts@defence.gov.au
Brazil	CT(EN) Flávia Mandarino	flavia@chm.mar.mil.br
Canada	Doug BRUNT	BruntD@dfo-mpo.gc.ca
Chile	Lt Cdr Juan CUNEO	jcuneo@shoa.cl
Colombia	Lt José Manuel PLAZAS	jdhid@cioh.org.co
Croatia	Mr Radovan SOLARIC	radovan.solaric@hhi.hr
Cuba	Edenia Machín GONZÁLEZ	internacional@geocuba.co.cu
Denmark	Mrs Hanne BERG	hnb@kms.dk
Finland	Mr Jarmo MAKINEN (Vice-Chairman)	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	Shri G.S. VATSA	nho@sancharnet.in
Indonesia	Capt Rusdi RIDWAN (at JANHIDROS)	infohid@indo.net.id
Italy	Capt Carlo DARDENGO	iim.crt@marina.difesa.it
Japan	Dr. Arata SENGOKU	arata-sengoku@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
Russia	Capt Valery D. FOMCHENKO (at GUNIO)	gunio@homepage.ru
South Africa	Mr Malcolm NELSON	hydrosan@iafrica.com
Spain	Cdr Angel CHANS	ihmesp@fn.mde.es
Ukraine	Mr Anatoliy DEREPA	ukrmaps@i.kiev.ua
United Kingdom	Mr Peter JONES (Chairman)	peter.jones@ukho.gov.uk
United Kingdom	Mr Andrew HEATH-COLEMAN (Secretary)	andrew.coleman@ukho.gov.uk
USA (NGA)	Mr Terry PEASLAND	Terry.R.Peasland@nga.mil
USA (NOAA)	Mr Robert HEELEY	robert.heeley@noaa.gov
Contacts:		
IHB	Mr Michel HUET	mhuet@ihb.mc
CHRIS Chair	Captain Robert WARD	robert.ward@hydro.gov.au
SNPWG Chair	Mr Johannes MELLES	johannes.melles@bsh.de
TSMAD Chair	Mr Mike BROWN	mike.brown@noaa.gov
C&SMWG Chair	Mr Mathias JONAS	mathias.jonas@bsh.de

CSPCWG Work Plan (updated 21 July 2006 for CHRIS 18)

- *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 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:*
 - *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:*
 - *3.1.3.1 the development of new symbology and*
 - *3.1.3.3 the extension of the INT chart scheme.*

- *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 17 and at CSPCWG2; it shows progress since that plan, and includes draft plans (next milestones and dates) for continuing the work.*

- 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 *	Next Milestone	Start Date	End Date	Status **	Contact Person(s)	Affected Pubs/Standard	Remarks
A.3	Revise M-4 Part B Section 200			2004	2005	C	Sec CSPCWG	M-4 / B-200	Approved 09/05 (IHO CL96/05)
A.4	Revise M-4 Part B Section 400	H	Revise and publish	2005	2007	O	Sec CSPCWG	M-4 / B-400	B-400 divided into sub-sections for manageability.
A.4.1	Sub-section B-400 to B-429	H	Publish	2005	2006	O	Sec CSPCWG	M-4 / B-400	Approved 06/06 (IHO CL48/06)
A.4.2	Sub-section B-430 to B-439	H	WG Ltr for round 3	2005	2006	O	Sec CSPCWG	M-4 / B-400	Draft in prep with Sec/Chair
A.4.3	Sub-section B-440 to B-469	H	WG Ltr for round 1	2006	2007	P	Sec CSPCWG	M-4 / B-400	Not started
A.4.4	Sub-section B-470 to B-499	H	WG Ltr for round 1	2007	2007	P	Sec CSPCWG	M-4 / B-400	Not started
A.5	Revise M-4 Part B Section 300	L	Completion of A.4	2007		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	L	1st draft			P	Sec CSPCWG	M-4	Position in M-4 to be determined. To include NM criteria, print dates, thumb labels etc (B-252 round 2 comments refer)
A.9	Annex to B-100 for colour examples	L	CSPCWG3	2006	2006	P	Sec CSPCWG	M-4	CSPCWG2 Action 16 refers.
D.3	Vessel Traffic Services guidance	L	Review of B-480	2007	2007	C	Sec CSPCWG	M-4 /B-435 & 488	Requirement from IHC XVI, to be included in review under A.4. CHRIS18 to note action now transferred to A.4.4.
D.5	Review requirement for Fairway symbology	H	FI/Chair/Sec consultation	2004	2006	O	Vice Chairman CSPCWG	M-4, INT 1	New submission received from FI for inclusion in A.4.2
D.6	Review Wreck depth definitions	H	Publish	2005	2006	O	Sec CSPCWG	M-4, INT 1	Included in A.4.1

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

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

D.7	Charted limits: styles, hierarchies, multi-feature lines	H	WG Ltr for round 3 of B-430 to B-439	2005	2006	O	Sec CSPCWG	M-4 B-439	Included in A.4.2
D.8	Develop symbols for AIS-equipped AtoN			2005	2005	C	Sec CSPCWG	M-4, INT 1	Approved 12/05 (IHO CL121/05)
D.9	Develop new symbol for synchronized and sequential lights	M	Response from IALA	2005	2006	O	Sec CSPCWG	M-4, INT 1	Symbol agreed by CSPCWG2, pending consultation with IALA. Include in A.4.4
D.10	DGPS symbol			2005	2006	C	Sec CSPCWG	M-4, INT 1	Approved 06/06 (IHO CL48/06)
D.11	Reporting line			2005	2006	C	Sec CSPCWG	M-4, INT 1	Approved 06/06 (IHO CL48/06)
D.12	Boulders	H	Publish	2005	2006	O	Sec CSPCWG	M-4, INT 1	Included in A.4.1
E.1	New edition INT 1		Publish French language version	2003	2007	O	DE: S Spohn FR: Y Le Franc ES: A Chans	INT 1	English language version published by DE 2005. French version planned for 2006, Spanish version for 2007.
E.2	New edition INT 2	M	Prepare draft new edition	2005	2007	O	NL: M de Graaf	INT 2	Input provided to NL at CSPCWG2
E.3	New edition INT 3			2005	2005	C	Sec CSPCWG	INT 3	Published 12/ 2005 by UK
E.4	Symbols for vacant entries in INT 1	L				P	Sec CSPCWG	INT 1, M-4 part B	
E.5	Small craft symbols	L				P	Sec CSPCWG	INT 1, M-4 part B	

* 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.

Chairman: Peter Jones

Email: peter.jones@ukho.gov.uk

Vice Chairman: Jarmo Makinen

Email: jarmo.makinen@fma.fi

Secretary: Andrew Heath-Coleman.

Email: andrew.coleman@ukho.gov.uk