



CHART STANDARDIZATION & PAPER CHART WORKING GROUP (CSPCWG)

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

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To CSPCWG Members

Date 9 January 2007

Dear Colleagues,

Subject: 3rd CSPCWG Meeting (CSPCWG3), Monaco, 22-24 November 2005 - Record

The record of a successful meeting of the CSPCWG accompanies this letter.

There are some actions for all WG members. Please see the list in Annex L to the Record to identify these.

There are some immediate matters, for which it is appropriate to advise the wider Working Group of the meeting's decisions in order to invite your endorsement or action. They are as follows:

1. Please advise whether you agree with the proposed amendments to the WG's Terms of Reference, at Annex C to the Record.
2. Please advise whether you agree with the draft CSPCWG Procedures, at Annex D to the Record.
3. Please advise what name you would consider appropriate for the WG in the proposed new IHO Committee structure. (See Record Item 4.1 and Action 7).

I would be grateful if you would consider all the above matters and send your responses, along with any comments, using Annex A to the Secretary **by 31 January 2007**, in order that I can communicate decisions to the CHRIS Chairman.

Yours sincerely,

Peter G.B. Jones,
Chairman

Annex A: Response form

Accompanying document: Record of the 3rd CSPCWG Meeting (Monaco, 22-24 November 2006)

RESPONSE FORM

(Please return to CSPCWG Secretary by 31 January 2007)

andrew.coleman@ukho.gov.uk

Please use the table below to record your response

Paragraph Number	Question	Yes	No
1	Do you agree with the proposed amendments to the WG's Terms of Reference, at Annex C to the Record? If 'no', please explain further below		
2	Do you agree with the draft CSPCWG Procedures, at Annex D to the Record? If 'no', please explain further below		
3	What name you would consider appropriate for the WG in the proposed new IHO Committee structure? (See Record Item 4.1 and Action 7). Possible suggestions from CSPCWG 3 are: 1. Nautical Charting WG 2. Nautical Cartography WG 3. Charting Standards WG 4. Chart Specifications WG 5. Chart Content & Paper Chart Presentation WG (CCPCPWG!) 6. Chart Development WG 7. Other (please specify below)	Number of preferred name	

Additional comments:

Name:

Hydrographic Office:

**3rd CSPCWG MEETING
Monaco, 22-24 November 2006
RECORD**

Notes:

The paragraph numbering is the same as in the agenda (CSPCWG 3-2A rev 5 – attached as Annex A). Not all items were taken in the same order as the agenda, but for convenience, the record has been set out in agenda order.

The meeting documents (explanatory notes) are referred to in the relevant section, but not included in this report. They are available for IHO Member States to view or download from the CSPCWG section of the IHO Website:
(<http://www.iho.shom.fr/COMMITTEES/CHRIS/CSPCWG/CSPCWG3/CSPCWG3docs.htm>)

1. Welcome, Introductions and Administrative Arrangements

*Docs: CSPCWG 3-1A rev 4 List of Documents
CSPCWG 3-1B rev 3 List of meeting participants and WG members*

Captain Hugo Gorziglia, Director IHB, welcomed the members of the CSPCWG on behalf of the IHB. He requested that CSPCWG should consider how it can contribute to Capacity Building (see agenda item 13.3) and also recommended that the WG should be studying how to transfer to the proposed new committee structure (see agenda item 4.1).

A list of meeting attendees is at Annex B.

The Chairman outlined his plans for the meeting, thanked members for attending and acknowledged that others could not attend for a variety of valid reasons. He informed the WG that we now have representation from all Regional Hydrographic Commissions, as Pakistan has agreed to represent the ROPME Sea Area Hydrographic Commission (RSAHC – Region I). He mentioned that there have been several changes to individual national representatives during the year and advised WG members to update their personal email lists accordingly. He stated that the record of the meeting would focus on main points, proposals and actions; full detailed minutes would not be taken.

ACTION 1: All WG members to update their personal email lists to reflect the latest contact details (go to [www.iho.shom.fr/ CSPCWG Membership](http://www.iho.shom.fr/CSPCWG_Membership)).

ACTION 2: Secretary to produce draft report of CSPCWG 3 by end December 2006 in accordance with the Chairman's instructions, for participants to approve.

2. Approval of Agenda

Docs: CSPCWG 3-2A rev 5 Agenda

The WG approved the agenda. The Chairman reserved the right to postpone discussion on some lower priority items if necessary to ensure more important items were sufficiently discussed. Some additional items were proposed for discussion if time allowed:

- Adjoining chart references (NL) (Discussed at 8.9)
- Seaplane landing areas (GR) (Discussed at 8.10)
- Colour charting for real-world features (DK) (Discussed at 13.3)
- Seabed features (DK) (Discussed at 13.3)
- Advice on changing limits of RHC/RCG (FR) (Not discussed)

3. Status of Actions from CSPCWG 2

Docs: CSPCWG 3-3A Status of actions from CSPCWG 2

Very good progress had been made with the 40 actions from CSPCWG 2 (October 2005). The following remained outstanding, and were reviewed:

2005 Action 4: Recognizing that, due to its size, M-4 could be slow to open for some users,

it was suggested that a copy could be downloaded to a local folder, which would open much faster. It would be necessary to replace this whenever a new edition was published.

2005 Action 5: IHB demonstrated that both M-4 and M-11 (Parts A and B) are now available for free download on the IHO website. A 'key' symbol had inadvertently been left against M-11 and would be removed shortly.

ACTION 3: IHB to remove 'key' symbol from M-11 in the download list.

2005 Action 7: IHB have approached FR and ES for assistance with translation and/or validation of M-4 revised sections.

It was agreed that a password protected copy of the 'blue text changes' M-4 revision drafts (compiled to assist translation) should be made available to Member States (M/S) of IHO on the CSPCWG page. A link should be available on the download page. These 'changes' copies must have a caveat added, warning that they should be consulted for text only, as graphics and layout do not agree with the final published version of M-4. The possibility of adding a 'DRAFT' watermark was suggested.

ACTION 4: IHB (in consultation with Secretary) to include 'changes' copies of M-4 revisions in password protected section of CSPCWG page on website. To include warning on use and clear 'draft' caveat (possibly by watermark).

2005 Action 15: HCA member states had been informed of the WG Chairman's recommendations on Antarctic symbols by letter and had accepted them.

2005 Action 16: Although the action had been completed, insufficient material had been received to generate an M-4 annex on colour percentages. The meeting decided that instead, the limited material received should be made available on the CSPCWG page of the IHO website, and a short paragraph should be added to M-4 B-140, advising HOs to contact directly other HOs whose charts are close to the required colour, for advice on percentages.

ACTION 5: Secretary to draft additional paragraph for M-4 B140 on colour tones, and supply available material to IHB, to advise 'emerging' HOs.

ACTION 6: IHB to include note about new 'colour' paragraph in next appropriate IHO CL, and to add available material to CSPCWG page.

2005 Action 21: FR has included multi-coloured light sectors in the 4th Edition of French INT 1 (P30.4). DE and ES will include in the next revision of their INT 1 versions.

2005 Action 25: FR has included the abbreviation 'Bo' in the 4th Edition of French INT 1 (J9.2 and V). DE and ES will include in the next revision of their INT 1 versions.

2005 Action 32: An on-line version of the new French INT 1 will be included free on FR website, with a link from IHO website (www.ohi.shom.fr). DE and ES will consider whether similar action should be taken for their versions after monitoring reaction to the FR on-line version.

Noting new CSPCWG 3 actions 3-6, all 2005 actions were closed.

4. Relationship with CHRIS and other CHRIS Working Groups

4.1. Report from CHRIS 18.

<i>Docs:</i>	<i>CSPCWG 3-4.1A</i>	<i>CSPCWG report to CHRIS 18</i>
	<i>CSPCWG 3-4.1B</i>	<i>Notes from CHRIS 18</i>
	<i>CSPCWG 3-4.1C</i>	<i>IHO Committees future organization</i>

The Chairman briefed the meeting on the CHRIS 18 conference, including the proposed reorganization of IHB technical committees and working groups. Concern was expressed that the proposed new name 'Paper Chart Presentation WG' does not adequately reflect this WG's role in providing a core of expertise on the basic concepts of charting (whatever the physical form of the chart), as stated in the Terms of Reference. Various

possibilities were proposed, including:

- Nautical Charting WG
- Nautical Cartography WG
- Charting Standards WG
- Chart Specifications WG
- Chart Content & Paper Chart Presentation WG (CCPCPWG!)
- Chart Development WG

It was also noted that the appropriate name for the 2nd WG under the SDPS should begin 'Electronic..' not 'Digital...', as most charts, including paper, are now produced digitally.

ACTION 7: All WG members to consider possible new names for WG under new structure and advise Secretary of preference by 31 January 2007.

On receipt of responses to action 7, the Chairman will ask CHRIS to change the proposed name accordingly and to point out the need to change 'digital' to 'electronic' in the title of the 2nd WG of SDPS - see agenda item 13.1.

4.2. and 4.3 Reports on TSMAD 13 and CSMWG 16

Docs: CSPCWG 3-4.2A Report on TSMAD activities to 3rd CSPCWG
CSPCWG 3-4.3A Report on CSMWG activities to 3rd CSPCWG

Chris Roberts (AU) briefed the meeting on the activities of the TSMAD and CSMWG. He said was that CSMWG is considering preparing 2 registers for the IHO registry, one for ECDIS symbology and the other for basic presentation rules and that CSPCWG may like to consider something similar for paper chart symbols once we see what CSMWG produces. The CSMWG register is unlikely to progress in the short term.

The meeting noted how useful it is to have a member who sits in all these related WGs and is able to advise on the activities of all three groups. Noting that Chris is due to retire in 2008, the meeting decided to bring his co-ordinating role to the attention of CHRIS, with a request to consider how this liaison may be maintained in the future – see agenda item 13.1

5. Review Terms of Reference

Docs: CSPCWG 3-5A Working Group's TOR

The WG discussed the existing Terms of Reference, and decided that the following amendments should be recommended to CHRIS – see agenda item 13.1:

- 1a: delete the word 'basic'.
- 3a(i): Add 'portrayal,' after 'design'. (The word 'portrayal' refers to symbols, not the Regulations and Specifications, so wording amended to improve clarity).
- 3a(i): May need to adjust wording for INT 1/2/3 to reflect wording from CHRIS 18 report.
- 3a(v): Add 'strongly' before 'encourage' and replace 'standards' by 'specifications'.
- 3d: Amend wording to reflect voting procedures for proposed SDPS ToR 2.14.
- 3f: Replace 'C&SMWG' by 'CSMWG and TSMAD'.
- 4c: To avoid ambiguity, amend wording to reflect election procedures for proposed SDPS ToR 2.3.
- 5a(ii): add 'their content and' before 'the use of text...'

A copy of the Terms of Reference, showing the proposed amendments, is at Annex C.

6. Review CSPCWG procedures

Docs: CSPCWG 3-6A Review of CSPCWG Procedures

There is a need for pdf versions of M-4 revisions to be placed on IHO website if they become too big for email transmission. No further changes were suggested to the WG's existing procedures, which have been working well.

It was decided that the current procedures should be converted to a document, amplified and

updated as necessary, and then posted on the CSPCWG page of the IHO website. A draft should be prepared and annexed to this report (see Annex D).

ACTION 8: IHB to post CSPCWG procedures on IHO website.

7. CSPCWG work plan: Summary of progress

Docs: CSPCWG 3-4.1A (Annex B) Work plan attached to CHRIS 18 report.

The Chairman briefed the meeting on progress with items on the work plan. He noted that progress had slowed a little, due to the Secretary being seconded to other work for 7 months. Item A4 (revision of M-4 B400) would be progressed in slightly different sub-sections from previously listed, as B440-449 had been found to be sufficiently large in its own right. This would enable the sections dealing with buoys, beacons and lights to be progressed as one unit. The subdivisions of A4 would be re-numbered accordingly on the updated Work Plan, see agenda item 12.

8. Chart content

8.1. Emergency wreck buoy:

Docs: CSPCWG 3-8.1A Emergency wreck buoy

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

For INT 1:

- light and buoy colours to be arranged YBu (in conformity with normal practice, as yellow is likely to be visible further from the buoy)
- 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.

The meeting agreed that an IHO CL should be issued to appraise M/S of the matter, and recommend (T)NM action. A copy of UK Notice to Mariners 3085(T)/06 is at Annex E, as an example. CSMWG, TSMAD and IALA (via UK's Trinity House) to be advised of the CSPCWG decisions. There is a possible need to clarify the definition of 'phase' in S-32 (3768), along the lines of the definition in UK's List of Lights.

ACTION 9: Chairman to advise CSMWG and TSMAD of CSPCWG conclusions on charting practice for emergency wreck buoys.

ACTION 10: Secretary to advise IALA (via Trinity House) of decisions on charting practice for emergency wreck buoys (when trial completed).

ACTION 11: Secretary to advise CHD (S Shipman) of possible need to clarify definition of 'phase'.

ACTION 12: IHB (in consultation with Chairman) to issue CL to advise M/S of decisions on emergency wreck buoys, and recommend (T)NM action.

8.2. Mangroves

Docs: CSPCWG 3-8.2A Mangroves

AU's need to chart mangrove areas (B-312.4), or at least the channels through them, as intertidal was recognized. However, there was also a question of whether intertidal areas over which it would be impossible to navigate at low water could strictly be regarded as intertidal. The meeting agreed that using the unsurveyed coastline (C2), or marsh edge symbol (C33), as appropriate to whether the area is charted as land or intertidal, with small mangrove symbols at approximately 10mm intervals would be acceptable practice. Individual trees should be charted, if necessary (eg on isolated small islands), by C31.2. It was decided that further consideration should be given to the issue, at the next CSPCWG meeting. Before then, all members who need to chart mangroves are invited to research charting of mangrove areas in relation to the AU proposal and current practice. A WG Letter to be issued to enquire whether any WG member is aware of any HO still using the second (complex) symbol.

ACTION 13: All WG members who chart mangroves to research charting of mangrove areas in relation to the AU proposal and current practice, ready for next CSPCWG meeting.

ACTION 14: Secretary to issue WG letter to enquire whether the second mangrove symbol at INT 1 C32 is still used by any HO

8.3. Deeper wrecks

Docs: CSPCWG 3-8.3A Charting of wrecks with depth greater than surrounding depths

The UK practice for charting wrecks for which the latest surveyed depth is deeper than the latest surveyed depth of the surrounding water was endorsed by the meeting. The Secretary to draft a new paragraph for M-4 B-422 for consideration. This kind of 'advice role' for M-4 supports the IHO's Capacity Building initiative.

ACTION 15: Secretary to draft specification for the charting of deeper wrecks and circulate for comment.

8.4. Quarantine station

Docs: CSPCWG 3-8.3A Chart symbol for quarantine station

No WG members present had any knowledge or experience of a quarantine station being charted at sea. No further action required at this time.

8.5. Synchronized and sequential lights

Docs: CSPCWG 3-8.5A Synchronized and sequential lights

The WG agreed that IHO M/S should be asked to endorse the abbreviation '(sync)', as agreed at the 2nd CSPCWG meeting, in the next appropriate IHO CL (probably covering the revision of B-430). The abbreviation, if approved, would be included in M-4 during the revision of B-470. A courtesy note to Trinity House explaining the decision is required.

ACTION 16: IHB to include '(sync)' in next IHO CL asking for endorsement of CSPCWG proposals.

[After-meeting note: AU has recommended that MS should not be asked to endorse the abbreviation 'sync' until an accompanying specification is developed, noting the combining of two terms (sequential and synchronized) into one abbreviation. This action will not therefore be progressed until that is done, as part of the revision of B-470.]

ACTION 17: Secretary to advise TH of CSPCWG decision re '(sync)'.

8.6. Ocean currents

Docs: CSPCWG 3-8.6A Portrayal of Ocean Currents

The meeting agreed that the current symbol H43 is adequate for principal chart users and there is no need to devise a new symbol. The Chairman would advise the Chairman of CHRIS of the decision – see agenda item 13.1.

8.7. Temporary and Preliminary Notices to Mariners

Docs: CSPCWG 3-8.7A (T) and (P) NMs in nautical charts?

The meeting considered the application of (T) and (P) NMs to paper charts and ENC. It agreed that no strict rules could be applied to time periods for publishing (T) NMs. It noted that some guidance is available in M-3 (TRs F3.5 and F3.6), but recognized that more detailed guidance would be useful. As a result, the priority for the Work Plan item A8 is to be raised to Medium. A ‘skeleton’ contents list for this proposed additional section in M-4 had already been prepared and is at Annex F. WG members are invited to consider the proposed outline and send any comments to the Secretary before end January 2007. Any nation having any internal guidance on (T) and (P) is invited to supply it to the Secretary (if not already done).

It was further agreed that a letter should be sent to the Chairman of TSMAD proposing that the WG also considers the matter in relation to ENC, and that it should be recommended as an agenda item for the next Primar/IC-ENC Technical meeting.

ACTION 18: Chairman to write to TSMAD Chairman and PRIMAR/IC-ENC technical committee regarding (T)&(P)NM.

ACTION 19: All WG members to send national guidance on (T)&(P)NMs to Secretary by end February 2007.

ACTION 20: All WG members to review and comment on the Contents List for new Maintenance Section B-600 of M-4 (Draft) – Annex F by end February 2007.

8.8. Seals (crests) on adopted charts

Docs: CSPCWG 3-8.8A Seals on adopted charts

The current INT specifications for seals on adopted charts (B-241.2(I)) states: ‘On international charts the seal of the producer nation and the IHO seal must be placed above the title, side by side and of equal height, with the producer nation’s seal on the left. In the case of a reproduced international chart, the printer nation’s seal must be placed between the seals of the producer nation (to the left) and the IHO (to the right); the latter two seals must be smaller in height than the seal of the printer nation (about 0.8 of the height)’.

This does not cover the case of an adopted chart having more than one producer. In such cases, the meeting agreed that the producers’ seals should be located to the left of the printers’ seal and arranged in alphabetical order (from the left) of the producer nations’ ISO two-letter codes. Some cartographic judgement may be required to maintain an aesthetic layout (eg four seals may need to be of a consistent size to avoid an unbalanced look). Inserting the seals in the margin may be preferable.

ACTION 21: Secretary to draft and circulate to WG a revised specification for chart seals placement for adopted co-produced charts.

8.9. (Additional to agenda). Chart references for International and co-produced/co-published charts.

Following a discussion about the arrangement of chart references for adjoining, smaller and larger scale charts, it was agreed that the existing specification B-254 was sufficiently clear. It was noted that the INT number is unlikely to be of much interest to the chart user. No further action is required.

8.10. (Additional to agenda). Point symbol for seaplane landing area.

GR requested consideration of a point symbol, to be used on smaller scale charts for a seaplane landing area. The secretary informed the meeting that the symbols (B-449.6 and N13-14) currently in INT 1 had been approved ‘provisionally’ by CSC Letter 2/1987 but ‘should be re-considered later in conjunction with all sea areas affected by aircraft operations (even including areas used to scoop up water for fire-fighting)’.

The meeting considered that the existing symbols for seaplane landing areas and anchorages are not very intuitive (looking more like a seabird) and did not readily convert to a point symbol. After considering various options, the meeting chose a revised symbol of a simplified profile of a seaplane, placed in a circle when used as a point symbol. A prototype symbol (provided by IHB) is at Annex G.

The new symbol will be improved in the revision of B-449, initially for further consideration by WG members, before seeking wider M/S approval.

ACTION 22: Secretary to include ‘profile’ seaplane symbol in revision of B-449, including a point symbol version.

9. M-4

9.1. Draft specifications

9.1.1. DGPS

Docs: CSPCWG 3-9.1.1A Draft DGPS specifications

The meeting agreed the following wording to replace specification B-481.5:

Differential Global Positioning System (DGPS) is an enhancement to the Global Positioning System that uses a network of fixed ground-based reference stations to broadcast the difference between the positions indicated by the satellite systems and the known fixed positions.

DGPS stations that provide DGPS corrections to the mariner may be charted. If required, it must be charted by the magenta radio circle with associated upright legend DGPS:



9.1.2. Reporting line

Docs: CSPCWG 3-9.1.2A Draft Reporting Line specifications

The meeting agreed the following wording for new specification B-488.1:

Radio reporting line. Where vessels are required to report on crossing a defined line, the line must be charted, normally by a dashed magenta line (general maritime limit of non-restricted area - N1.2), with small reporting point symbols superimposed across the line:



Circle radius 1.85mm, triangle base 1.15mm, triangle height 1.50mm. Symbols should be inserted at approximately 40mm intervals.

If the reporting line coincides with another limit, the symbols should be superimposed on that limit. See also B-439.6k.

ACTION 23: Secretary to include new specifications for DGPS station and Reporting line in M-4 at next edition. Attention to be drawn in the accompanying IHO CL.

9.2. Multi-coloured charts: light detail

Docs: CSPCWG 3-9.2A

Light detail on multi-coloured charts

The meeting agreed that a more detailed specification should be included in M-4 for lights on multi-coloured charts when B-470 is revised. The following general rules were agreed:

All specifications for standard lights continue to apply, except as follows:

1. Direction of buoyage arrows should have red and green circles, orientated according to IALA region. (M-4 B461.4).
2. Colours for flares and sector arcs should be chosen to be easily distinguishable from any background tint. They should also be tested for visibility under bridge lighting.
3. Light flares must be in the appropriate colour:
 - a. Yellow/orange should be used for white, yellow, amber and orange lights.
 - b. Red should be used for red lights. Alternatively, magenta may be used.
 - c. Green should be used for green lights.
 - d. Magenta may be used for violet lights (B470.6 & 471.4 and INT1 P11 & Q8).
 - e. Blue/cyan should be used for blue lights. (B470.6 & 471.4 and INT1 P11 & Q8).
 - f. Flares should be used rather than patches, as more than one colour flare can be located at a light star (when the actual sectors are not charted).
4. Sector limits should be fine dashed lines, but may be shown as fine firm lines emphasized by 1mm wide colour bands where marking the sides of a fairway (B475.1, 475.5 and INT1 P41.2).
5. Sector arcs should be fine dashed lines, but may be shown solely by coloured arcs. An abbreviation for the colour or character of the light (B475.1 and INT1 P40.2) may be added.
6. Coloured sector arcs should be depicted within 30mm of the light star, situated if possible to avoid conflict with significant detail. If colour arcs (including circles for 360° lights) are placed within 30mm of the light star, the flare(s) may be omitted.
7. Where this cannot be achieved, coloured arcs should be broken to clear significant detail, or the arc moved further from the light. In the latter case, coloured flares should be located at the light star.
8. Coloured sector arcs should be 1mm wide. Faint sectors may be 0.5mm wide. In very narrow sectors, a wider wedge of colour should be shown, so that it is clearly visible.
9. On multi-coloured charts, coloured sector arcs (or circles) should be used on all major lights, including un-sectored lights. Narrow sector leading lights and minor lateral lights should usually be shown by flares.
10. Alternating and oscillating lights should be shown by parallel or overlapping different coloured arcs (or circles).
11. The floodlight symbol (P63) should be yellow/orange.
12. The Moiré effect symbol (P31) and strip light symbol (P64) should be coloured as appropriate to the light.

ACTION 24: Secretary to prepare draft for ‘coloured lights’ in accordance with discussions and include in revision of section B-470.

9.3. B-430 revision: Outstanding issues

Docs: CSPCWG 3-9.3A

B430-439 revision - Outstanding Issues

The meeting agreed the following amendments (in red below) to the draft revision of B-430. The secretary to revise the draft accordingly and prepare for issue to M/S for approval.

At **B-431.1** it was recognised that ‘Recommended anchorage’ may be considered to imply ‘recommended by the hydrographic office’, with resultant liability attaching. FR required the option to add a limit, as some such anchorages are specially surveyed, even though they do not come under the jurisdiction of a regulatory authority. M-4 wording amended

as follows:

Recommended Reported anchorages not defined by a regulatory authority must be shown by the double fluke anchor symbol, the centre of the symbol being its position:

⚓ N 10

The size of vessel for which the anchorage is suitable can be inferred from the depths and swinging room available or from Sailing Directions. If required, a black dashed line (N1.1) may be used to indicate the extent of the reported anchorage.

INT 1 term at N10 to be amended to: Reported anchorage. The '(no defined limits)' parenthesis to be deleted.

At B-431.2

Designated anchor berths must be shown, normally by means of a magenta anchor with a circle (or oval) superimposed. The number or letter assigned to the berth must be inserted within the circle. If necessary, to contain a 3-figure (or longer) designation, the circle may be extended to an oval:

At B-431.9, the meeting rejected the proposal for an abbreviation 'Wait' for Waiting area.

At B-435.1f, the meeting agreed that the option to use the abbreviation ITZ for Inshore Traffic Zones should be retained.

At B-435.2b, the meeting agreed to add 'If required for clarity, the triangle symbol (sides 5mm) may be incorporated in the limit symbol, at approximately 40mm intervals, the base of the symbol innermost.' An example of the limit should be included in M-4 and INT 1.

[After-meeting note: the last phrase added for clarity, and to conform to convention and wording at B-437.3]

At B-435.2c, the meeting agreed to remove the option to repeat the triangle symbol. The remaining phrase at 'c' will now be included in 'b'.

At B-439.6d, the meeting agreed to add 'this option must have limited use to maintain its effectiveness. It should only be used for the limits of most significance to the chart user, particularly for international shipping'.

ACTION 25: Secretary to amend draft B-430 as discussed and arrange for issue to M/S.

9.4. M-4 Part B revision progress

Docs: CSPCWG 3-9.4A B-440 revision round 1 - soft copy for display

The Secretary briefed the meeting on some of the issues arising from the revision of B-440 and was given general approval for the line taken on several specific issues.

9.5. Compliance with M-4

Not discussed.

9.6. New sections of M-4 to agree with S-57

Not discussed.

10. M-11 & S-32

10.1. Progress with new combined parts A & B edition M-11

The combined version of M-11 Part A and Part B is now available on the IHO website.

ACTION 26: All WG members to examine M-11 on website and feedback any comments to

M Huet.

10.2. Advice from HCA on scheming principles for M-11 (Part A)

The Chairman received a letter from Captain Gorziglia (HCA Chairman) explaining that the existing principles in M-11 Part A adequately cover the particulars of chart scheming in Antarctica. A copy of the letter is at Annex H. No further action is required.

10.3. INT Chart titles for Part B

M Huet explained the principles applied to the titles used for M-11 Part B, ie that the English language version is used where available, in conformity with English being the 'language of navigators'. He drew attention to IHC 1997 Decision No 9:

'It is proposed that each Hydrographic Office which does not issue charts in the English language give all legends on charts affecting its territorial waters in its national language and in English.'

The proposal was supposed to have been passed to the former CSC for consideration of technical references. However, no new or revised technical resolution appears to have been generated. He invited the WG to consider Decision 9 in the context of M-4, especially B-241, which is based on TR B2.15 (derived from 1926 & 1929 reports of proceedings).

ACTION 27: Chairman and Secretary to review IHC 1997 Decision 9 and consider implications for M-4 (especially B-241) and INT 1.

10.4. Plans for, and progress with, revision of S-32

Steve Shipman gave the WG an update on progress with updating the Hydrographic Dictionary (S-32). The Committee on Hydrographic Dictionary (CHD) had been considering how wide the term 'hydrographic' should be considered; possibly the dictionary would be more accurately a 'Dictionary for the hydrographic community'. They have agreed to publish an annex on ECDIS terminology (derived from S52 Appendix 3). In the main dictionary, such terms will be prefaced 'In ECDIS...'

Steve drew attention to the CHD discussion forum 'www.iho-discussions.org'. It is necessary to have a username and password to use the forum. This can be arranged by email to sshipman@ihb.mc

11. INT 1 / 2 / 3

11.1. Status of INT 1/2/3 (CHRIS 18 response)

The Chairman reported on the CHRIS 18 meeting's review of his 'Status of IHO Charts INT 1, INT 2 and INT3' paper CHRIS 18-6.5B (see CSPCWG Letter 04/06). He mentioned the CHRIS Chairman's summary points, which the meeting considered needed some revision, as in red below:

- CHRIS requests that the CSPCWG's **INT1 Sub-WG acts as the quality assurance authority and reviewer of INT1 on behalf of CHRIS & IHO.**
- CHRIS agrees that '**M-4 is the authority for charting principles and for paper chart compilation**'.
- CHRIS agrees that '**M-4 represents the contemporary community standard specification for paper charts**'.
- CHRIS agrees that **the current 'ownership and stewardship of each of the subject documents' is appropriate**
- **CHRIS puts on record its thanks** to each of the respective producer nations.
- If the wording regarding status can be improved, **revisions for P-4 should be provided to IHB** for incorporation as necessary.

The meeting agreed to use some of the wording, when approved, from the CHRIS18 report to insert into M-4, possibly in the 'history' section (B-101) or the Associated

Publications section (B-150). In the latter section, the term used for INT 1 and INT 3 should be 'published by..' in lieu of 'produced by..'. For INT 2, the appropriate term may change according to how the new edition is progressed. For example, it may be co-published by NL/UK or NL/IHB, depending on where the printing is done.

In consideration of the fact that all official INT 1s (and all or most national versions) are now booklets, the meeting decided to remove the word 'Chart' from M-4 wherever it prefixes INT 1. HOs are at liberty to refer to their national version by whatever term and number they wish.

ACTION 28: Secretary to remove prefix 'Chart' from INT 1 in M-4 as editorial amendment at next opportunity.

ACTION 29: Secretary to draft some wording for M-4 and P-4 on the status of INT 1/2/3, derived from the report of CHRIS 18 when available.

11.2. INT 1 sub WG

Docs: CSPCWG 3-11.2A Terms of reference

The Chairman explained the reasons why the INT 1 subWG had been formed. He preferred for the time being that the subWG should be limited to the three representatives of the HOs having responsibility for the official INT 1s, plus the Secretary, to ensure liaison between them without the unnecessary bureaucracy that a larger group might generate.

The meeting reviewed the Terms of Reference for the subWG. A few changes were agreed for section 5, as follows:

Tasks

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

The full revised Terms of Reference are at Annex I.

The meeting discussed the importance of ensuring that all M/S are advised whenever updates to the official INT 1s are published. It felt that they may not be easily found in the CSPCWG page of the IHO website, and therefore requested IHB to include a link from the publications download page. Publication of a new edition of an official INT 1 should be advised by IHO CL.

ACTION 30: IHB to add hyperlinks from publications download list to INT 1 updates.

11.3. Section W (INT abbreviations)

Docs: CSPCWG 3-11.3A INT abbreviations inconsistencies

The meeting recorded that DE had conformed to its instructions (at CSPCWG 2) in revising Section W of INT 1: ie:

'that the existing list of International abbreviations in INT 1 is incomplete, and the opportunity of the current [German] revision should be taken to update and reformat the list to provide an alphabetical index of International abbreviations used in INT 1'.

However, the meeting also noted that there is now inconsistency between M-4 and INT 1

(German version). While, in M-4, some abbreviations are stated to be 'INT' and for others users are specifically allowed to use national equivalents, there remain some abbreviations which need clarifying. FR and ES were requested to prepare a paper on the extent of the problem and to make proposals for a revised list, which would eventually need to be submitted to M/S for approval.

ACTION 31: ES and FR to prepare paper on abbreviations to be considered for INT status.

11.4. Some minor revisions for INT 1

Docs CSPCWG 3-11.4A Minor revisions for INT 1

During the recent revision of INT 1 (French version), some minor improvements to INT 1 were noticed. The CSPCWG meeting agreed the following changes to be included in the next revision of INT 1:

(i) A new entry for 'Distance mark'. Currently the symbol is combined with canal at F40, even though it may also be used in a river, estuary or other navigation channel. It was agreed that the following be added to INT 1:

B25.1 Distance along a waterway, no visible marker. (The symbol to be magenta, text magenta sloping, and to be located in a waterway).

B25.2 Distance along a waterway with visible marker. (The symbol to be black, text upright and black, and to be located alongside a waterway).

(ii) Move the word '(sounding)' under 'Charted depth' instead of 'Observed depth' in H20 graphic (to reflect the use of the term on charts, in accordance with M-4 B-412). This has already been done in the FR version.

(iii) A new entry for 'Offshore position of tabulated tidal level data with designation'. This is currently included within H30, but the meeting agreed it would be better to have its own entry at H47.

(iv) An additional 'quayside' depth-out-of-position to be added to the graphic at I11 (already done in FR version).

(v) The link in Q for abbreviation for colours to be amended to 'W'.

ACTION 32: DE, ES and FR to update INT 1 at next revision for distance markers at B25, position of term 'sounding' at H20, offshore position for tidal levels at H47, quayside depth out-of-position at I11 and link for colour abbreviations in section Q and M-4 references. See to note M-4 for editorial changes as appropriate.

ACTION 33: AU (C Roberts) to inform TSMAD and CSMWG of minor changes to INT 1 above.

11.5. Progress with New Edition of INT 2

NL reported on good progress with a new edition of INT 2. A draft copy was made available with English text only. He requested UK to check the English, and for ES and FR then to supply translations. NL would then complete compilation with all three languages and consider whether it could be posted on the IHO website. M de Graaf requested UK to consider assisting with printing (possibly under the existing co-publication arrangement).

ACTION 34: Secretary to check draft English text for INT2 and advise NL by end December 2006.

ACTION 35: ES and FR to prepare translations of INT2 text.

ACTION 36: UK to investigate possibility of printing INT 2 (possibly under co-publication agreement).

ACTION 37: NL to publish INT 2.

12. Review of Work Plan

12.1. New items:

The following new items were agreed:

- a. Study of symbols for mangroves – see Action 17
- b. Consider M-4 impact of 1997 IHC Decision 9 – see Action 27
- c. Rationalization of INT abbreviations – see Action 31

12.2. Priorities:

It was agreed that priority for A8 (Maintenance section for M-4) should be raised to Medium (to be progressed after completion of revision of B-400, but some preliminary work should be progressed as time allows).

The priorities for the new work items agreed 12.1 above are a. Medium, b. High, c. Medium respectively.

12.3. Timescales for tasks

It was agreed that the Chairman and Secretary should update timescales and other columns of the Work Plan out-of-meeting and annex to record. Item A4 (revision of M-4 B-400) to be re-subdivided, as discussed at item 7. (See Annex J).

13. Any Other Business

13.1. Items to bring to attention of CHRIS

The following items were noted for the attention of CHRIS:

- a. Name of the WG under the new committee structure (await response to Action 7).
- b. The need to change ‘digital’ to ‘electronic’ in the title of the 2nd WG of SDPS
- c. Chris Roberts’ co-ordinating role in Working Group liaison, with a request to consider how this liaison may be maintained in the future.
- d. Minor revisions to the Terms of Reference of the CSPCWG.
- e. The decision that no new ocean current symbols are justified for paper nautical charts.
- f. Amendments to the CHRIS Chairman’s statement about the authority of M-4.
- g. The application of English language abbreviations in IHO documents (specifications and standards) arising from the proposed review of INT abbreviations.

ACTION 38: Chairman to write to CHRIS Chairman to bring these matters to his attention.

13.2. No INF papers received.

13.3. Report of Capacity Building activities to CBC.

At the 4th CBC Meeting (June 2006), the CBC Chairman was tasked to contact the Chairmen of all IHO technical bodies requesting them:

‘To inform the IHB (copy to the CBC Chairman) on all CB matters discussed during their meetings. This could be done through the preparation of a special document annexed to the minutes of their meetings’.

As CSPCWG has not done this before, the meeting asked the Chairman and Secretary to consider out-of-meeting in what way the work of the CSPCWG contributes to capacity building. The items at Annex K have been identified, and will be communicated to Captain Gorziglia as IHB Director and CBC Chairman.

ACTION 39: Chairman to write to Captain Gorziglia to bring Capacity Building matters to his attention (as detailed in Annex K).

13.4. Ships' Routeing, MACHC....

Time prevented the above matters from being discussed. However, the following additional matters were discussed briefly:

- Increased use of colours for features such as buoys and beacons (as already done on some nations' leisure charts, with positive feedback from users). The meeting generally approved the principle of improving the readability of charts by increasing use of colour. It was suggested that for navigational aids the colour abbreviation should be retained, in case the actual colour is difficult to see in certain lighting conditions. It was also noted that this practice could lead to an increase in modifications necessary when printer nations adopt a multi-coloured chart into a traditional 4-coloured series. There was also some doubt whether it would be possible to make the colour scheme of some cardinal buoys or bifurcation buoys sufficiently distinct.
- In response to a query about the charting of lost anchors and containers, UK informed the meeting of its practice of charting a lost anchor as a foul (with legend '*Anchor*' if required). Containers generally float away and cannot be charted, but if known to be sunk in a specific position they should be charted as obstructions.
- M Huet informed the meeting that no progress has been made with publishing the revised edition of S-23 '*Limits of Oceans and Seas*'. IHB will inform Member States in due course.

14. Date, duration and venue of next meeting (CSPCWG 4)

The date of the next meeting was agreed to be in week 46 of 2007 (week commencing 12 November). Noting the difficulty in completing the agenda this year, it may be necessary to increase the duration to three full days (Tuesday to Thursday).

Originally the agenda for CSPCWG 3 had appeared to be a little light, but late additions had made the planned 2.5 days not quite adequate. WG members are therefore encouraged to note items for the next meeting throughout the year (and send to the Secretary to note), so that the agenda can be determined early enough to make a final decision about the meeting's duration, nearer the time.

NL was asked to consider the possibility of hosting the meeting, as it will immediately follow the CHRIS 19 meeting in Rotterdam, and so could enable a few members with long journeys to attend both.

ACTION 40: All members to note agenda items for CSPCWG 4 through year (and forward to Secretary).

ACTION 41: NL to consider whether it would be able to host the next CSPCWG meeting, informing Chairman accordingly.

ANNEXES

- | | |
|---|--|
| A | Agenda |
| B | Attendees at CSPCWG 3 |
| C | Terms of Reference (with suggested amendments) |
| D | CSPCWG Procedures (draft) |
| E | UK Notice to Mariners 3085(T)/06 (Emergency wreck buoy) |
| F | Contents List for new Maintenance Section B-600 of M-4 (draft) |
| G | Proposed point symbol for seaplane landing area |
| H | Letter from Chairman HCA (Captain Hugo Gorziglia) to Chairman CSPCWG |

- I Revised Terms of reference for INT 1 subWG
- J CSPCWG Work Plan (updated at CSPCWG 3)
- K Report of Capacity Building activities to CBC
- L CSPCWG 3 Actions
- M CSPCWG 3 List of Documents

3rd CSPCWG MEETING - Monaco, 22-24 November 2006
AGENDA

- 1. Welcome, Introductions and Administrative Arrangements**
Docs: CSPCWG 3-1A rev4 List of documents
CSPCWG 3-1B rev3 List of meeting participants and WG members
- 2. Approval of Agenda**
Docs: CSPCWG 3-2A rev5 Agenda
- 3. Status of Actions from CSPCWG 2**
Docs: CSPCWG 3-3A Status of actions from CSPCWG 2
- 4. Relationship with CHRIS and other CHRIS WGs**
 - 4.1. Report from CHRIS 18 (Chairman)**
Docs: CSPCWG 3-4.1A CSPCWG report to CHRIS 18
CSPCWG 3-4.1B Notes from CHRIS 18
CSPCWG 3-4.1C IHO Committees: future organization
 - 4.2. Report from TSMAD13 to be held in Sep 2006 (if any issues relevant to CSPCWG) (AU)**
Docs: CSPCWG 3-4.2A Report on TSMAD activities to CSPCWG 3
 - 4.3. Report from CSMWG16 held in May 2006, regarding adoption of new symbology for ECDIS based on new M-4 symbols for paper charts (AU)**
Docs: CSPCWG 3-4.3A Report on CSMWG activities to CSPCWG 3
- 5. Review Terms of Reference**
Docs: CSPCWG 3-5A Working Group's TOR
- 6. Review CSPCWG procedures**
Docs: CSPCWG 3-6A CSPCWG Procedures
- 7. CSPCWG work plan: Summary of progress**
Docs: CSPCWG 3-4.1A (Annex B)
- 8. Chart content:**
 - 8.1. Emergency wreck buoy (UK)**
Docs: CSPCWG 3-8.1A Emergency wreck buoy
 - 8.2. Mangroves (AU)**
Docs: CSPCWG 3-8.2A Portrayal of mangrove trees and areas on paper charts
 - 8.3. Deeper wrecks (UK)**
Docs: CSPCWG 3-8.3A Charting of wrecks with depth greater than surrounding depths
 - 8.4. Quarantine station (UK)**
Docs: CSPCWG 3-8.4A Chart symbol for quarantine station
 - 8.5. Synchronized and sequential lights (UK)**
Docs: CSPCWG 3-8.5A Synchronized and sequential lights
 - 8.6. Ocean currents (UK)**
Docs: CSPCWG 3-8.6A Portrayal of Ocean Currents
 - 8.7. (T) & (P) NMs (DK)**
Docs: CSPCWG 3-8.7A (T) and (P) NMs in nautical charts?

- 8.8. Seals (DE)**
Docs: CSPCWG 3-8.8A Seals on adopted charts
- 9. M-4**
- 9.1. Draft specifications:**
- 9.1.1. DGPS
Docs: CSPCWG 3-9.1.1A Draft DGPS specifications
- 9.1.2. Reporting line
Docs: CSPCWG 3-9.1.2A Draft Reporting Line specifications
- 9.2. Multi-coloured charts: light detail (UK)**
Docs: CSPCWG 3-9.2A Light detail on multi-coloured charts
- 9.3. B-430 revision: Outstanding issues (Chairman)**
- 9.3.1. Recommended anchorages (B-431.1)
- 9.3.2. Anchor berths (rectangles, ovals) (B-431.2)
- 9.3.3. Waiting area abbreviation (B-431.9)
- 9.3.4. Abbreviation for Inshore Traffic Zones (B-435.1f)
- 9.3.5. Precautionary area limit (B435.2) - late addition, not in EN
- 9.3.6. Tint bands for emphasizing limits (B-439.6d)
Docs: CSPCWG 3-9.3A B430-439 revision - Outstanding Issues
- 9.4. M-4 Part B revision progress (Chairman)**
Docs CSPCWG 3-9.4A B-440 revision round 1 - soft copy for display
- 9.5. Compliance with M-4 (AU)**
Docs CSPCWG 3-9.5A Not received
- 9.6. New sections of M-4 to agree with S-57 (AU)**
Docs CSPCWG 3-9.6A Not received
- 10. M-11 & S-32**
- 10.1. Progress with new combined parts A & B edition M-11 (IHB - M Huet)**
- 10.2. Advice from HCA on scheming principles for M-11 (Part A) (IHB - M Huet)**
- 10.3. INT Chart titles for Part B (DE)**
Docs: CSPCWG 3-10.3A International Chart Titles
- 10.4. Plans for, and progress with, revision of S-32 (IHB - S Shipman)**
- 11. INT 1 / 2 / 3**
- 11.1. Status of INT 1/2/3 (CHRIS 18 response) (Chairman)**
- 11.2. INT 1 sub WG (Chairman)**
Docs CSPCWG 3-11.2A Terms of reference
- 11.3. Section W (INT abbreviations) (FR)**
Docs CSPCWG 3-11.3A INT abbreviations inconsistencies
- 11.4. Some minor revisions for INT1**
Docs CSPCWG 3-11.4A Minor revisions for INT 1
- 11.5. Progress with NE INT 2 (NL)**
- 12. Review of Work Plan**
- 12.1. New items**
- 12.2. Priorities (including new Maintenance Section (A.8) in light of item 8.7)**
- 12.3. Timescales for tasks**
- 13. Any Other Business**
- 13.1. Items to bring to attention of CHRIS**
- 13.2. INF papers (if any)**
- 13.3. Report of Capacity Building activities to CBC (Chairman)**
- 14. Date, duration and venue of next meeting**
- 15. Review of actions and concluding remarks**

Annex B to CSPCWG 3 Record

ATTENDEES AT CSPCWG 3

Member State	Name	Email
Australia	Mr Chris ROBERTS	chris.roberts@defence.gov.au
Canada	Mr. Dave PRINCE	PrinceD@pac.dfo-mpo.gc.ca
Denmark	Mrs Hanne BERG	hnb@kms.dk
Finland	Mr Jarmo MAKINEN (Vice-Chair)	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
Netherlands	Mr Maarten DE GRAAF	m.de.graaf@mindef.nl
Norway	Mrs Inger TELLEFSEN	inger.tellefsen@statkart.no
Spain	Cdr Angel CHANS	ihmesp@fn.mde.es
United Kingdom	Mr Peter JONES (Chairman)	peter.jones@ukho.gov.uk
United Kingdom	Mr Andrew HEATH-COLEMAN (Secretary)	andrew.coleman@ukho.gov.uk
IHB	Mr Michel HUET	mhuet@ihb.mc

In addition to the above:

- Captain Hugo Gorziglia (IHB Director and Chairman CBC) gave a welcome address.
- Lt Cdr Steve Shipman (IHB Professional Assistant and Secretary CHD) reported to the WG on the work of the IHO Committee on the Hydrographic Dictionary (S-32).

Amendments to CSPCWG Terms of Reference agreed by the CSPCWG 3 meeting, in red.

TERMS OF REFERENCE
for the
CHART STANDARDIZATION AND PAPER CHART W.G. (CSPCWG)

1. Objectives

- a. To provide a core of expertise on the **basic** concepts of charting, noting that whatever physical form the chart may take the fundamental concepts and elements of marine cartography remain the same.
- b. To develop and maintain the IHO publications for which it is responsible.

2. Authority

The Working Group (WG) is a subsidiary of CHRIS and its work is subject to CHRIS approval. In the interests of procedural efficiency the WG has authority to reach decisions on the maintenance and updating of the documents for which it is responsible and seek direct endorsement of its proposals by IHO Member States via the IHB. This does not include matters that may have a strategic or financial implication for Member States or other interested stakeholders.

3. Procedures

- a. The WG's main tasks are to:
 - i. Keep under continuous review the IHO publication M-4 'Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO', in order to advise the IHO on their updating, design and format **and the portrayal of symbols**. Note: M-4 incorporates **[await wording from CHRIS 18 report]**:
 - INT 1 'Symbols, Abbreviations and Terms used on Charts'
 - INT 2 'Borders, Graduation, Grids and Linear Scales'
 - INT 3 'Use of Symbols and Abbreviations, as recommended by the IHO'
 - ii. Advise the IHO on suggestions put forward by Member States to update M-4, in accordance with IHO Specification B-160, with the goal of achieving the maximum possible adherence by Member States to the Regulations and Specifications.
 - iii. Keep under continuous review the IHO publication M-11 Part A 'Guidance for the Preparation and Maintenance of International Chart Schemes' in order to advise the IHO on its updating.
 - iv. Advise the IHB and Regional Hydrographic Commissions, as appropriate, on the work of Regional Charting Groups (RCG) in order to promote the production of large- and medium-scale international (INT) charts. The role of the WG is purely consultative.
 - v. Offer advice based on its experience to RCG and individual Member States, on chart schemes and cartographic work, in order to **strongly** encourage adherence to IHO charting **specifications standards**. The role of the WG is purely consultative.
- b. The WG conducts its business mainly by correspondence. It will also plan to hold meetings at least once every two years, dependant on membership support and business needs.

- c. All members shall inform the Chairman in advance of their intention to attend meetings of the WG.
- d. Decisions ~~should~~ shall generally be made by consensus. If votes are required on issues or to endorse proposals presented to the WG, votes shall be ~~on the basis of one vote per Member State represented~~ taken by a simple majority of the Member States present and voting. When dealing with inter-sessional matters by correspondence, a simple majority of responding WG members shall be required.
- e. The WG should identify a work programme for each year, including expected time frame for progressing tasks.
- f. The WG will maintain close liaison with other CHRIS WGs, particularly ~~C&SMWG~~ CSMWG and TSMAD; and other international and IHO bodies, as appropriate and as instructed by CHRIS.
- g. The WG will report progress to meetings of CHRIS and to Member States through the CHRIS report in the Annual Report of the IHB

4. Composition and Chairmanship

- a. Membership of the CSPCWG is open to all Member States wishing to be represented. Normally there should be not more than one representative from each Member State.
- b. Accredited Non-Governmental International Organizations observers may participate in CSPCWG activities.
- c. ~~A Chairman and Vice-Chairman will be appointed by election from participant Member States of the WG.~~ The Chairman and Vice-Chairman shall be representatives of Member States. Their election shall be decided at the first meeting after each ordinary session of the Conference and shall be determined by vote of the Member States present and voting. [Note: change 'Conference' to 'Assembly' after restructure.]
- d. Length of tenure of Chairmanship and Vice-Chairmanship is governed by IHO Technical Resolution T1.1.
- e. The Chairman and Vice-Chairman will decide between themselves the organization of the work entailed in these posts.
- f. The Chairman will monitor membership to ensure that each regional hydrographic commission is invited to be represented on the WG.
- g. A Secretary will be appointed, normally from within the organization of the Chairman of the WG, to ensure the smooth running of business, and to administer consultation and collation of members' views. The Secretary is a member of the WG.

5. Guiding principles

- a. M-4 Part B provides an internationally-agreed product specification for both national and international (INT) charts at medium- and large-scale. The role of M-4 Part B is twofold, in that it provides:
 - i. an explanation of the general concepts and rationale behind the portrayal of features on charts, much of which is relevant to both **electronic** and paper charts.
 - ii. specific guidance for paper charts, including **their content and** the use of text and symbology.

DRAFT
CSPCWG PROCEDURES

1. Correspondence

- 1.1. Correspondence (including formal CSPCWG letters) will normally be by email (except where fax is necessary for sending non-digital graphics). Respondents are encouraged to use the 'Reply to all' option for responses, to ensure the full Working Group membership is aware of developing discussions.
- 1.2. It is necessary to ensure that personal address lists are updated when updated membership and contact lists are issued from time to time. These are dated and posted on the CSPCWG section of the IHO website.
- 1.3. Those WG members who have requested a hard copy will be sent follow-up hard copies of formal CSPCWG Letters. It is hoped that this requirement will cease in the near future.
- 1.4. Significant correspondence will be supplied to other CHRIS WG Chairmen and/or Secretaries as appropriate, for their WGs' information and seeking their input.

2. Timescales

- 2.1. Except where there is good reason for shortening the timescales, **8 weeks** will normally be allowed for responding to the first correspondence on a new subject. Thereafter, **4 weeks** will be allowed for responding to further correspondence on the same subject. The Chairman may extend the times allowed for complex issues at his discretion. The Secretary will ensure that the response date (if any) is clearly shown on all correspondence.

3. Meetings

- 3.1. Meetings will be held at least once every two years. During the revision of M-4, while activity in the WG is high, meetings will be held approximately annually. Although it is important to have issues which would benefit from a face-to-face discussion on the agenda, which may not be known until near the meeting time, in practice most members need to plan and budget for travel well in advance of the meeting. A meeting should last approximately three days.
- 3.2. Experience has shown that the majority of active WG members will not travel outside Europe for meetings, making a meeting elsewhere in the world unlikely to be viable. Meetings will therefore be held either at a European hydrographic office (by invitation) or at the IHB in Monaco. If practicable, meetings will be arranged 'back to back' with other meetings which non-European members attend, in order to assist their travel arrangements.

4. Publications

- 4.1. The principal task of CSPCWG at present is to update M-4 (The International Chart Regulations and Specifications). This is being progressed by sections with drafts prepared by Chairman and Secretary in 'MS Word' format, changes shown as 'track changes'. Where specific guidance is required, WG members may be asked to vote on their preference in an annex to the draft.
- 4.2. Feedback from WG members within the timescales above is considered by the Chairman and Secretary and incorporated into a revised draft as appropriate. Further drafts are circulated, until no further or minimal amendments are suggested.
- 4.3. Sometimes, after more than one round, the document becomes too big to be easily conveyed by email. In such cases, the Secretary may break it into parts, or if that does

not solve the problem, arrange for the version, complete with track changes, to be posted on the IHO website as a pdf file.

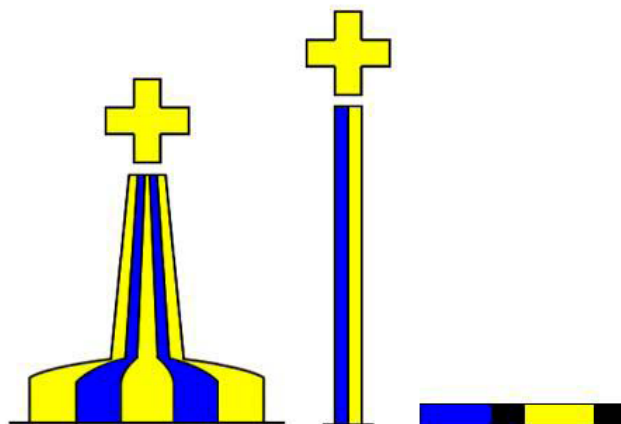
- 4.4. The secretary then prepares an 'InDesign' pdf file, including the final graphics and layout, which is circulated to IHO Member States (under IHO CL) for comment and endorsement in accordance with M-4 B-160. A period of **three months** is allowed. A final version is prepared by the Secretary, taking account of any comments, and promulgated by a second IHO CL.
- 4.5. The Secretary supplies to IHB a CD containing:
 - A pdf file of the revised section. This will be available to download and incorporate into any extant hard copies, by replacing just the revised section.
 - A pdf file of the complete M-4, which is given a new edition number '3.xxx'. This may also include minor editorial corrections at the discretion of the Chairman. More significant corrections outside the revised section will be advised to IHO Member States in the covering IHO CL.
 - A MS Word version which has new text highlighted in colour (and deletion retained as track changes). This copy is primarily intended to assist translators, but is useful to show what has been changed. In this version, formatting and graphics have not been updated.
- 4.6. All the above are posted on the IHO Website, the Word version being password protected for use only by IHO Member States. IHB issues a CL to announce the new edition and explain the changes, also drawing attention to any significant changes outside the revised section.
- 4.7. The CD is retained by IHB, as an international archive of the development of M-4.
- 4.8. CSPCWG is also responsible for maintaining M-11 Part A. Any changes will be dealt with in a similar way to the above, except that the final document is prepared in MS Word, not InDesign.
- 4.9. Official INT 1 revisions are undertaken by France, Germany and Spain (in consultation, via the WG's INT 1 subWG). New editions are announced by IHO CL. Notice to Mariner updates are posted on the IHO website, with links from the Publications download list and an announcement via a banner on the Homepage.
- 4.10. INT 2 and INT 3 are published by Netherlands and UK respectively, on behalf of IHB. Raster files are provided to IHB for display in a password protected section of the IHO Website.
- 4.11. WG members are encouraged to advise the Secretary at any time of errors or omissions noticed in publications or information messages for which CSPCWG is responsible.

Copy of UK Notice to Mariners 3085(T)/06

3085(T)/06 GENERAL INFORMATION - IALA Emergency Wreck Marking Buoy - Buoyage.

Source: UK Hydrographic Office

1. At present new dangers are generally marked by cardinal or lateral buoys, although it is recognised that a number of authorities also deploy isolated danger marks. Recent groundings and collisions have indicated a need for a revision of how new dangers are marked, especially in an emergency.
2. To provide a possible means of ensuring clear and unambiguous marking of dangerous new wrecks, IALA has recently adopted "Recommendation O-133", which introduces, on a trial basis, a new emergency wreck marking buoy. Both the Guidelines and Recommendation are available at the IALA web site (www.iala-aism.org). Results from the trials will be assessed during the 2006 - 2010 IALA work term, under the direction of the IALA Aids to Navigation Management Committee. It is envisaged that any such buoy will be a temporary response, typically to be used for the first 24-72 hours. Its deployment will be promulgated through usual maritime safety information systems i.e. the World-wide Navigational Warning Service (see Annual Notice to Mariners No 13).
3. The emergency wreck marking buoy is designed to provide high visual and radio aid to navigation recognition. It will be placed as close to the wreck as possible, or in a pattern around the wreck, and within any other marks that may be subsequently deployed.
4. The emergency wreck marking buoy will be maintained in position until:
 - The wreck is well known and has been promulgated in nautical publications i.e. notices to mariners.
 - The wreck has been fully surveyed and exact details such as position and least depth above the wreck are known.
 - A permanent form of marking of the wreck has been carried out.
5. The buoy has the following characteristics (see diagram attached):
 - A pillar or spar buoy, with size dependent on location.
 - Coloured in equal number and dimensions of blue and yellow vertical stripes (minimum of 4 stripes and maximum of 8 stripes)
 - Fitted with an alternating Blue and Yellow flashing light with a nominal range of 4 nautical miles (authorities may alter the range depending upon local conditions) where the blue and yellow 1 second flashes are alternated with an interval of 0.5 seconds i.e. Bu 1.0s + 0.5s + Y 1.0s + 0.5s = 3.0s
 - If multiple buoys are deployed then the lights will be synchronised.
 - The buoy may be fitted with a Racon (Morse Code "D") and/or an AIS transponder
 - The topmark, if fitted, is a standing/upright yellow cross.
6. This notice to mariners will remain in force until cancelled by an Annual Notice in January 2007.
7. The IALA Maritime Buoyage System booklet (NP735) and The Mariner's Handbook (NP100) will be updated at the end of the trial period, if successful. The Annual Notice will then be cancelled.



DRAFT
CONTENTS LIST FOR
NEW MAINTENANCE SECTION B-600 OF M-4

1 – ASSESSMENT OF INCOMING DATA

Scope, Procedures, Credibility of sources, Use of other HO NMs.
Selection criteria for NM.

2 - PROMULGATION OF INFORMATION

Scope
New Chart (NC)
Adoption of Foreign Government National or INT Charts
New Edition (NE) and 'Limited' New Edition
Reprints
Notice to Mariners Block (including accompanying textual
corrections)
Permanent textual Notice to Mariners (NM)
Notice to Mariners 'on certain copies only'
Preliminary (P) Notice to Mariners
Temporary (T) Notice to Mariners
Radio Navigation Warning (RNW)
Miscellaneous chart update
Office correction
Overprints, overlays and non-standard charts

3 – PUBLICATION PROCEDURES

4 - CHART WITHDRAWAL PROCEDURES

Independent withdrawal of chart
Independent withdrawal of plan(s) within a chart

5 - GUIDELINES FOR DRAFTING NOTICES TO MARINERS

Notice title
Authority, source, original information
Cross-reference to publications
Chart number
Horizontal Datum and positions
Amplifying notes
Blocks (Chartlets, Patches)
Accompanying diagrams, cautionary notes, depth tables
Scale too small
Withdrawn charts
Non-standard charts
Preliminary and Temporary Notices
The publications list
Guidance for NC/NE descriptions
Miscellaneous Notices (eg consequential actions)



INTERNATIONAL HYDROGRAPHIC
BUREAU



BUREAU HYDROGRAPHIQUE
INTERNATIONAL

4, Quai Antoine 1er
B.P.445 - MC 98011 MONACO Cedex
PRINCIPAUTE DE MONACO

Monaco, 22 November 2006.

Mr. Peter JONES
Chairman of the CSPCWG
(by hand)

Ref.: Principles for scheming INT Chart in Antarctic waters.

- a) HCA Letter No 1/2006 dated 07APR06
- b) UKHO ref: HA317/010/032-05 dated 09OCT06
- c) My e-mail dated 16OCT06

Dear Peter,

Through letter in reference a) we reported on the update of the INT Chart Scheme for region "M", after the inclusion of seven new charts approved by the HCA. A copy of HCA Letter No 1/2006 was sent to you for consideration/review and comments.

Your letter in reference b) expressed the likelihood that conventional chart scheming principles in M-11 Part A may not readily apply to Antarctica, due to its unique environment. You suggested that special principles used could be recorded and incorporated into a revision of M-11.

Through reference c) I indicated that the subject would be considered for discussion at the 6th HCA meeting, but in principle seem that there was no conflict at all.

I would like to update you on this matter:

- a) Before including this subject in the HCA6 Agenda, at the IHB we gave some thoughts to the procedure used to include new charts in the INT Chart scheme for Antarctica and found that the existing principles as in M-11 Part A have been followed. In brief we found that there was no need to include any particular criteria for the Antarctica, as the guidelines provided have worked well.
- b) Nevertheless, before deciding to include or not the subject in the already bulky HCA Agenda, I discussed the point with a few HCA members and found that at this stage there was no need for any change or amendment to M-11 Part A because the special environmental conditions of Antarctica. As a result, the subject was not included in the agenda.

In conclusion, from the HCA side, no input for changes to M-11 Part A exist for the time being.

Personal Regards,

Hugo Gorziglia
Captain,
HCA Chairman

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

2. 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).

3. Authority

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

4. 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.

5. 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.

6. Tasks

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

Version: 2.0 (reviewed by CSPCWG 3)
23 November 2006

CSPCWG Work Plan (updated at CSPCWG 3 – November 2006)

- *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 produced for CHRIS 18; 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 (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	H	IHO CL for M/S	2005	2007	O	Sec CSPCWG	M-4 / B-400	Final WG draft
A.4.3	Sub-section B-440 to B-449	H	WG Ltr for round 1	2006	2007	O	Sec CSPCWG	M-4 / B-400	1st draft in preparation
A.4.4.1	Sub-section B-450 to B-479	H	WG Ltr for round 1	2007	2007	P	Sec CSPCWG	M-4 / B-400	Not started
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	Approval of contents list	2006	2008	O	Sec CSPCWG	M-4 / B-600	Position in M-4 to be determined. Draft contents list discussed at CSPCWG 3
A.9	Additional paragraph in B-100 re colour examples	L	Draft paragraph & add material to website	2006	2007	O	Sec CSPCWG, IHB	M-4 / B-100	CSPCWG3 Actions 5 & 6 refer
A.10	Use of English on charts	H	Draft paragraph for M-4	2006	2007	O	Sec/Chairman CSPCWG	M-4	IHC 1997 Decision 9, CSPCWG 3 Action 27
D.5	Review requirement for Fairway symbology	H	Publication revised B-430	2004	2007	O	Vice Chairman CSPCWG	M-4, INT 1	Included in A.4.2
D.7	Charted limits: styles, hierarchies, multi-feature lines	H	Publication revised B-430	2005	2007	O	Sec CSPCWG	M-4 B-439	Included in A.4.2

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

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

D.9	Develop new symbol for synchronized and sequential lights	M	Include in IHO CL	2005	2007	O	Sec CSPCWG	M-4, INT 1	Include in A.4.4.1
D.10	DGPS symbol		CL announcing revised B-430	2005	2007	C	Sec CSPCWG	M-4, INT 1	Include reference in IHO CL
D.11	Reporting line		CL announcing revised B-430	2005	2007	C	Sec CSPCWG	M-4, INT 1	Include reference in IHO CL
D.13	Mangroves	M	CSPCWG 4	2006	2008	O	AU (C Roberts)	M-4, INT 1	CSPCWG 3 action 13
E.1	New edition INT 1		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 for 2007.
E.2	New edition INT 2	H	Finalise text in three languages		2007	O	NL: M de Graaf	INT 2	English text to be checked by Sec and translation by FR & ES
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	ES/FR paper	2006	2008	O	ES (A Chans) and FR (Y Le Franc)	INT1, M-4 part B	CSPCWG 3 action 31

* 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
 4. Date: w/c 12 Nov 2007 Location: NL (tbc – see Action 41)

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

Report of Capacity Building Activities by CSPCWG to CBC

At the 4th CBC Meeting (June 2006), the CBC Chairman was tasked to contact the Chairmen of all IHO technical bodies requesting them:

‘To inform the IHB (copy to the CBC Chairman) on all CB matters discussed during their meetings. This could be done through the preparation of a special document annexed to the minutes of their meetings’.

As CSPCWG has not done this before, the CSPCWG 3 meeting asked the Chairman and Secretary to consider out of meeting in what way the work of the CSPCWG contributes to capacity building. The following have been identified:

The CSPCWG provides a core of expertise on the concepts of charting (see Terms of Reference). In this capacity, the WG:

- is revising M-4 to bring it up to date to meet the needs of charting in the 21st century;
- in revising M-4, will include some background information, especially to assist emerging hydrographic offices or less experienced cartographers;
- in the publication of M-11 Part A, included detailed advice on how to prepare a chart scheme, not previously available in an international publication;
- is available to offer direct advice to any hydrographic office on chart scheming and nautical cartography;
- invites representation on CSPCWG from every Regional Hydrographic Commission.

Specifically from meeting CSPCWG 3 (November 2006), the WG will:

- by providing (via IHO CL) advice on how to react to IALA’s emergency wreck buoy trial;
- provide advice on the use of colours for charts;
- add to M-4 some advice about charting wrecks where the surveyed depth is deeper than the surrounding water;
- raise the priority for drafting a new section of M-4 to provide guidance on chart maintenance (initially with respect to Notices to Mariners) not currently available in any international publication.

CSPCWG 3 ACTIONS

(updated to 4/12/2006)

No	Action	Delegate	Status
1	Update personal email lists to reflect the latest contact details.	All WG members	
2	Draft record of meeting for members to examine by end December	Sec	
3	IHB to remove 'key' symbol from M-11 on download list	M Huet	
4	IHB to include 'change' copies of M-4 revisions in password protected section of CSPCWG page on website. To include warning on use and clear 'draft' caveat (possibly by watermark)	M Huet (in consultation with Sec)	
5	Draft additional paragraph for M-4 B140 on colour tones, and supply available material to IHB, to advise 'emerging' HOs	Sec	
6	To include note about new 'colour' paragraph in next appropriate IHO CL and to add available material to CSPCWG page.	M Huet	
7	To consider possible new names for WG under new structure, and advise Secretary or preference by end January 2007.	All WG members	
8	Post CSPCWG procedures on IHO website	M Huet	
9	Advise CSMWG and TSMAD of CSPCWG conclusions on charting practice for emergency wreck buoys.	Chair	
10	Advise IALA (via Trinity House) of decisions on charting practice for emergency wreck buoys (when trial complete)	Sec	
11	Advise CHD (S Shipman) of possible need to clarify definition of 'phase' in S-32.	Sec	
12	IHB (in consultation with Chairman) to issue CL to advise M/S of decisions on emergency wreck buoys, and recommend (T)NM action.	M Huet	
13	Research charting of mangrove areas in relation to the AU proposal and current practice, ready for next CSPCWG meeting.	All WG members that chart mangroves	
14	Issue WG letter to enquire whether the second mangrove symbol at INT 1 C32 is still used by any HO	Sec	
15	Draft specification for the charting of deeper wrecks and circulate for comment.	Sec	
16	Include (sync) in next IHO CL asking for endorsement of CSPCWG proposals. [After-meeting note: AU has recommended that MS should not be asked to endorse the abbreviation 'sync' until an accompanying specification is developed, noting the combining of two terms (sequential and synchronized) into one abbreviation. This action will not therefore be progressed until that is done, as part of the revision of B-470.]	M Huet	
17	Advise TH of CSPCWG decision re (sync)	Sec	
18	Write to TSMAD Chairman and PRIMAR/IC-ENC technical committee regarding (T)&(P)NM.	Chair	
19	Send national guidance on (T)&(P)NMs to Secretary by end February 2007.	All WG members	
20	Review and comment on the Contents List for new Maintenance Section B-600 of M-4 (Draft) – Annex F by end February 2007.	All WG members	
21	Draft and circulate to WG a revised specification for chart seals placement for adopted co-produced charts	Sec	

No	Action	Delegate	Status
22	Include 'profile' seaplane symbol in revision of B-449, including a point symbol version.	Sec	
23	Include new specifications for DGPS station and Reporting line in M-4 at next edition. Attention to be drawn in the accompanying IHO CL.	Sec	
24	Revise draft for 'coloured lights' in accordance with discussions and include in revision of section B-470	Sec	
25	Amend draft B-430 as discussed and arrange for issue to M/S	Sec	
26	Examine M-11 on website and feedback any comments to M Huet	All WG members	
27	Review IHC 1997 Decision 9 and consider implications for M-4 (especially B-241) and INT 1.	Chair/Sec	
28	Remove prefix 'Chart' from INT 1 in M-4 as editorial amendment at next opportunity	Sec	
29	Draft some wording for M-4 and P-4 on the status of INT 1/2/3, derived from the report of CHRIS 18 when available.	Sec	
30	Add hyperlinks from publications download list to INT 1 updates	M Huet	
31	Prepare paper on abbreviations to be considered for INT	ES & FR	
32	Update INT 1 at next revision for distance markers at B25, position of term 'sounding' at H20, offshore position for tidal levels at H47, quayside depth out-of-position at I11 and link for colour abbreviations in section Q and M-4 references. Sec to note M-4 for editorial changes as appropriate.	Sec, DE, FR, ES	
33	Inform TSMAD and CSMWG of minor changes to INT 1 above	AU	
34	Check draft English text for INT2 and advise NL by end December 2006.	Sec	
35	Prepare translations of INT2 text	FR, ES	
36	Investigate possibility of printing INT 2 (possibly under co-publication agreement)	UK	
37	Publish INT 2	NL	
38	Write to CHRIS Chairman to bring various matters to his attention.	Chairman	
39	Write to Captain Gorziglia to bring Capacity Building matters to his attention (as detailed in Annex K).	Chairman	
40	Note agenda items for CSMWG 4 through year (and forward to Secretary).	All WG members	
41	Consider whether it would be able to host the next CSMWG meeting, informing Chairman accordingly.	NL	

**3rd CSPCWG MEETING
Monaco, 22-24 November 2006**

LIST OF DOCUMENTS

Copies of these documents may be downloaded from the CSPCWG section of the IHO Website.

<i>CSPCWG 3-1A rev.4</i>	<i>List of documents</i>
<i>CSPCWG 3-1B rev.3</i>	<i>List of meeting participants and WG members</i>
<i>CSPCWG 3-2A rev.5</i>	<i>Agenda (copy at Annex A)</i>
<i>CSPCWG 3-3A</i>	<i>Status of Actions from CSPCWG 2</i>
<i>CSPCWG 3-4.1A</i>	<i>CSPCWG report to CHRIS 18</i>
<i>CSPCWG 3-4.1B</i>	<i>Notes from CHRIS 18</i>
<i>CSPCWG 3-4.1C</i>	<i>IHO Committees future organization</i>
<i>CSPCWG 3-4.2A</i>	<i>Report on TSMAD activities to CSPCWG 3</i>
<i>CSPCWG 3-4.3A</i>	<i>Report on CSMWG activities to CSPCWG 3</i>
<i>CSPCWG 3-5A</i>	<i>CSPCWG Terms of Reference</i>
<i>CSPCWG 3-6A</i>	<i>CSPCWG Procedures</i>
<i>CSPCWG 3-8.1A</i>	<i>Emergency wreck buoy</i>
<i>CSPCWG 3-8.2A</i>	<i>Portrayal of mangrove trees and areas on paper charts</i>
<i>CSPCWG 3-8.3A</i>	<i>Charting of wrecks with depth greater than surrounding depths</i>
<i>CSPCWG 3-8.4A</i>	<i>Chart symbol for quarantine station</i>
<i>CSPCWG 3-8.5A</i>	<i>Synchronized and sequential lights</i>
<i>CSPCWG 3-8.6A</i>	<i>Portrayal of Ocean Currents</i>
<i>CSPCWG 3-8.7A</i>	<i>(T) and (P) NMs in nautical charts?</i>
<i>CSPCWG 3-8.8A</i>	<i>Seals on adopted charts</i>
<i>CSPCWG 3-9.1.1A</i>	<i>Draft DGPS specifications</i>
<i>CSPCWG 3-9.1.2A</i>	<i>Draft Reporting Line specifications</i>
<i>CSPCWG 3-9.2A</i>	<i>Light detail on multi-coloured charts</i>
<i>CSPCWG 3-9.3A</i>	<i>B430-439 revision - Outstanding Issues</i>
<i>CSPCWG 3-9.4A</i>	<i>B400 revision - Soft copy may be available at the meeting</i>
<i>CSPCWG 3-9.5A</i>	<i>Compliance with M-4 - Not yet available</i>
<i>CSPCWG 3-9.6A</i>	<i>New section of M-4 to agree with S-57 - Not yet available</i>
<i>CSPCWG 3-10.3A</i>	<i>International Chart Titles</i>
<i>CSPCWG 3-11.2A</i>	<i>Terms of reference</i>
<i>CSPCWG 3-11.3A</i>	<i>INT abbreviations inconsistencies</i>
<i>CSPCWG 3-11.4A</i>	<i>Minor revisions for INT 1</i>