

**5th CSPCWG MEETING**  
**Sydney, Australia 18-20 November 2008**

Notes:

- The paragraph numbering is the same as in the agenda (see ANNEX A).
- The meeting documents listed at ANNEX B 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-ohi.net/english/committees-wg/chris/cspcwg.html>).
- Actions arising from this meeting are listed at Annex E.

**1. Welcome, Introductions and Administrative Arrangements**

*Docs: CSPCWG 5-01A rev2 List of Documents*  
*CSPCWG 5-01B rev1 List of meeting participants and WG members*

On behalf of the Australian Hydrographic Service, Mike Prince, (Director of Charting and Information Management) welcomed the CSPCWG to Sydney. He emphasised the importance of the work of the CSPCWG, noting that paper chart depiction flows through onto electronic products. He commented how the ongoing work of updating the IHO chart specifications was resulting in significant updating of their national chart specifications, and presumed that the same benefits were being applied in HOs across the world. He drew on the example of mangroves to illustrate how symbology can be improved to show a much better depiction of the real world situation.

The participants introduced themselves, some of whom were attending their first WG meeting. A list of meeting participants is at ANNEX C.

The Chairman outlined his plans for the meeting and thanked AHS for hosting CSPCWG5. He also thanked members for attending and acknowledged that others could not attend for a variety of valid reasons. 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, from the membership list on the IHO website, which is updated whenever changes occur. 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:** Secretary to produce draft report of CSPCWG 5 by end December 2008, for participants to approve.

**2. Approval of Agenda**

*Docs: CSPCWG 5-02A rev3 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 as time allowed:

- 4.1B - a new paper containing the Chairman's notes from CHRIS20.
- A late paper, INF1, on review of the content of INT1 sections G & O.
- A late item on light descriptions.

**3. Status of Actions from CSPCWG 4**

*Docs: CSPCWG 5-03A Status of actions from CSPCWG 4*

Very good progress had been made with the 42 actions from CSPCWG 4 (November 2007). The following remained outstanding, and were reviewed:

**CSPCWG 4 Action 9** (Secretary to conduct scoping review of the extent to which official INT1s do not comply with the recommendations): The Secretary had examined terms and definitions in DE version INT1, for section I-K which are in the parts of M-4 which have been revised. He found generally good correlation, with only a few minor differences that are unlikely to confuse the user. The action was closed, but INT1 producers to note the need to review terms and definitions against M-4 at next NE of INT1.

**CSPCWG 4 Action 19** (All participants to speak to local ENC specialists about how new and revised routing measures should be notified in ENC, and advise Sec of outcomes by end Jan 2008): A draft ENC Encoding

Bulletin has been compiled by the ENC Encoding Bulletin sub-working group of TSMAD, which has now reached its third draft, and is expected to be published shortly. CSPCWG action therefore closed.

**CSPCWG 4 Action 26** (FR to review content of INT1 sections G and O, and then consult ES and DE to contribute further suggested additions/deletions before referring the draft revised list to the WG.): France had prepared a paper (INF.1), to be considered by this meeting if opportunity arose (see 11.5). Action closed

**CSPCWG 4 Action 28** (INT1 producers to amend term for K31 to 'Foul ground, not dangerous to surface navigation, but to be avoided by vessels anchoring, trawling, etc (eg remains of wreck, cleared platform)'. Also, amend heading of subsection beginning K20 to 'Wrecks and Fouls' (all at next opportunity)): The heading of the sub-section has been amended to 'Wrecks and Fouls' in the recently published ES and DE INT1 versions. The definition is not exactly as agreed in the CSPCWG4 record, particularly in missing the example of a cleared platform, which was suggested to make more explicit that the foul may apply to something other than a dispersed wreck. INT1 producers were invited to note to amend at next editions of INT1. CSPCWG action closed.

**NEW ACTION 2:** INT1 producers to amend term for K31 to 'Foul ground, not dangerous to surface navigation, but to be avoided by vessels anchoring, trawling, etc (eg remains of wreck, cleared platform)' at next new edition of INT1.

**CSPCWG 4 Action 29** (Chairman to raise the issue of the definitions of a foul in S-57 and S-32 with appropriate WGs). This matter is currently under consideration by TSMAD, with a view to resolving it for S-101. The matter has not yet been brought to the attention of the HDWG (for S-32).

**NEW ACTION 3:** Secretary to communicate with HDWG to make them aware of the issues regarding the use of the term 'Foul'.

**NEW ACTION 4:** AU to review TSMAD progress with the issue of 'Fouls' and keep CSPCWG informed.

**CSPCWG 4 Action 33** (INT1 subWG to discuss way to implement DK suggestion on moving part of K to L in INT1): This has not been progressed to date, as nothing can be done until the next new editions of INT1. This is now included on the CSPCWG Work Plan, as item E8, therefore the CSPCWG 4 action is closed.

**CSPCWG 4 Action 35** (US to report to CSPCWG on progress with INT1/S-52 symbol combined document). R Heeley (US) reported that NOAA had provided input to NGA, but there had been a change of staff at NGA and the work was not currently accorded a high priority. Several participants commented that users are requesting such a document, preferring a hard copy rather than an electronic version. J Wootton (AU) reported that this had been discussed at the last CSMWG meeting (May 2008). BSH had provided NOAA with a digital version of their INT1 for development of a combined document.

**NEW ACTION 5:** All WG members to report to Chairman any substantive discussion or progress about a combined INT1/S-52 symbol document.

**CSPCWG 4 Action 42** (AU to review and note any changes to M-4 and INT1 that may be relevant for S-100 and report to TSMAD15). Ongoing task for the Vice-Chairman. CSPCWG4 action closed.

Noting new CSPCWG 5 actions 2-5, all CSPCWG 4 actions were closed.

#### **4. Relationship with CHRIS and other CHRIS Working Groups**

##### **4.1. Report from CHRIS 20.**

*Docs: CSPCWG 5-04.1A CSPCWG report to CHRIS 20*  
*CSPCWG 5-04.1B Chairman's report from CHRIS 20*

The Chairman briefed the meeting on the CHRIS 20 conference (November 2008). Particular points affecting CSPCWG are:

- The new Hydrographic Services and Standards Committee (HSSC) will be established from 01 January 2009, but this is anticipated to have little effect on existing WGs. There is no requirement to change TOR (except for name changes) or to re-elect officers.
- The Chairman explained his reasons for not pressing for the CSPCWG name to be changed (to Chart Specifications WG). He explained that now the roles were not changing (especially the relationship with DIPWG, formerly CSMWG), part of the reason for change had gone away. Further, that the WG, operating under its existing name, had garnered considerable credibility, which might be diminished by a name change. This was accepted by the participants.

- Succession planning. This is not an immediate issue for CSPCWG, but the Chairman encouraged participants to influence their organizations' leadership to retain their support to CSPCWG activity.
- The review of TRs undertaken by the CHRIS Chair Group will result in 3 IHO CLs (the first just issued), requesting MS to vote on deleting or amending some 80 TRs. All WG members are requested to encourage their MS to vote, preferably approving the proposed changes.
- M Huet (IHB) pointed out that it was CHRIS, not WEND who had 'tasked CSPCWG with ...' (both bullets of paragraph 8 of document 5-04.1B). The paper to be amended accordingly and issued as rev1.

**ACTION 6:** Secretary to amend CSPCWG5-04.1B to change 'WEND' to 'CHRIS' as having tasked CSPCWG (both bullets of paragraph 8 of document 5-04.1B) and arrange for rev1 to be posted on IHO website.

#### **4.2. Reports from TSMAD**

*Docs: CSPCWG 5-04.2A Report to CSPCWG5 on TSMADWG activities*

J Wootton (AU) fully briefed the meeting on the activities of the TSMAD. Of particular relevance to CSPCWG were the proposed changes to CATZOC definitions. When and if approved, these would need to be reflected in M-4. A Heath-Coleman (Sec) confirmed that the term 'PEL' has not been used in the draft revision of M-4.

**ACTION 7:** Secretary to ask Chairman TSMAD to advise when to correct M-4 regarding CATZOC categories.

#### **4.3. Reports from CSMWG (now DIPWG)**

*Docs: CSPCWG 5-04.3A Report to CSPCWG5 on CSMWG activities*

J Wootton (AU) fully briefed the meeting on the activities of the CSMWG (now DIPWG). The relationship between DIPWG and TSMAD is strengthening and the respective meetings in May 2009 will again be co-located with a joint session.

### **5. Terms of Reference (TOR)**

*Docs: CSPCWG 5-05A TOR (with CSPCWG4 amendments)  
CSPCWG 5-05B rev1 TOR Discussion paper*

S Spohn (DE) asked whether the title of S-49 (which is referred to in the TOR) could be changed. It was agreed that this would be part of the consideration of the S-49 subWG.

No changes are required to the TOR, except to replace references to CHRIS and CSMWG by HSSC and DIPWG respectively.

**ACTION 8:** IHB to amend the TOR on the IHO website by replacing references to CHRIS and CSMWG by HSSC and DIPWG respectively, with effective from 01 January 2009.

### **6. CSPCWG procedures**

*Docs: CSPCWG 5-06A rev1 Procedures agreed at CSPCWG4  
CSPCWG 5-06B rev1 Procedures discussion paper*

The meeting agreed all the proposed changes to the procedures, ie:

- Replace 1.3 with: Hard copies of CSPCWG correspondence will only be posted if specifically requested by a WG member.
- Replace 3.2 with: Meetings will be held either by invitation of a WG member, or at the IHB in Monaco. If more than one invitation is available, the venue will be agreed by vote at the preceding meeting.
- Replace the first line of 4.5 with: The Secretary supplies to IHB by email:
- Replace 4.7 with: IHB make and retain a CD of each new edition of M-4, as an international archive of the development of M-4.
- Replace 4.8 with: CSPCWG is also responsible for maintaining M-11 Part A, M-15 and S-49. Any changes will be dealt with in a similar way to the above, although the final documents may be produced in different formats from that used for M-4, eg Microsoft Word. Any major revision of these documents may be facilitated by the establishment of a subWG.

The meeting also agreed that the present method of circulating and commenting on papers (by reply to all email) works well, and there is no advantage in using ‘wiki’ forums instead.

Post-meeting note: the rules of procedure for CHRIS (and hence its WGs) include:

- Item 4: ‘The venue and date of the meeting shall be [considered] at the previous meeting, in order to facilitate participants’ travel arrangements’. (CHRIS ROP has ‘decided’, but it is not appropriate to finalise this at the meeting when not all WG members are present).
- Item 7: ‘The working language of the [WG] shall be English’.

**ACTION 9:** Secretary to make changes to CSPCWG Procedures, based on recommendations from CSPCWG 5-06A rev1.

## 7. CSPCWG work plan: Summary of progress

*Docs: CSPCWG 5-07A Work plan updated for CHRIS 20*

The Secretary briefed the meeting on progress with items on the work plan (substantive discussion was deferred to Agenda Item 13).

## 8. Chart content

### 8.1. Rounding rules:

*Docs: CSPCWG 5-08.1A Not submitted*

J Wootton (AU) advised the meeting that he needed time to reconsider whether this item is still relevant to CSPCWG. He considered that it might be more related to conversion of depth units rather than rounding of depths. This item was not considered further.

### 8.2. Tonnage

*Docs: CSPCWG 5-08.2A Not submitted*

The Chairman advised the meeting that this item had been withdrawn, following discussions between AU and the Secretary. The Secretary had explained that a ton (weight) is actually 1016.05 kg – not really very different from 1000 kg in the context of a lifting crane and for charting purposes it does not really matter whether ‘t’ at F53 is actually tons or tonnes. For example, a crane which has a lifting capacity of 3 tons would not be charted as 3.048t, even if we know it is tons not tonnes (which we usually will not). So, in different contexts, the abbreviation ‘t’ may be used for the measurement of volume (tonnage), as in GT or for the metric or imperial measurement of weight. Whether it is a measurement of volume or weight should be evident from the context. Whether as a measurement of weight it is actually ton or tonne does not matter in a charting context. If exceptionally it does, then the unabbreviated word should be used. AU had accepted this explanation and saw no need to trouble the WG with further discussion.

### 8.3. Pipelines in tunnels

*Docs: CSPCWG 5-08.3A Pipelines in tunnels*

The meeting agreed with NO’s suggestion of a symbol for an entrance to a pipeline tunnel. The following points were also made:

- There should be a clear space between the dash of the pipeline and the ‘bracket’, to avoid any similarity to a ground tackle anchor.
- The symbol could also be used for cables, if appropriate.
- The symbol could also be used for the beginning of buried pipelines or cables, if appropriate.
- INT1 reference to be L42.2. (Buried to be retained at L42.1).
- M-4 specification to be added to B-444.5 (also reference at B-443.8 for cables)

- - - - - } { - - - - -      **L42.2**

**ACTION 10:** Secretary to draft specification for pipeline tunnel entrance, and include in WG letter.

### 8.4. Bridge supports and detail under bridges

*Docs: CSPCWG 5-08.4A Charting bridge supports and detail under bridges*

It was commented that existing specifications for bridge depiction is in section B-300 of M-4, which has not yet been reviewed by CSPCWG. After viewing several examples of charted bridges, and discussing examples of accidents of vessels hitting bridge supports, the meeting agreed that a revised specification for the depiction of bridge supports, and detail under bridges, should be brought forward and accorded High priority in the work plan. The use of large scale chart plans and/or profiles should be encouraged.

**ACTION 11:** Secretary to draft revised specification B-381 (Bridges), including some examples, and include in WG letter.

**ACTION 12:** All WG members to provide small graphics of particularly good examples of chart depiction of bridges to Secretary by end January 2009.

### **8.5. Offshore renewable energy installations**

*Docs: CSPCWG 5-08.5A Offshore Renewable Energy Installations (OREI)*

The meeting considered that it would be useful to have a generic symbol available for indicating renewable energy installation, particularly to cover floating (wave) installations. Various symbols were considered; a black 'flash' symbol within a black circle was chosen (utilising parts of existing symbols D26 and E26.2). Usually, it was expected that it would be used as an area symbol in conjunction with a limit, although if necessary it could be used as a point symbol, with the centre of the circle representing the position. The location in INT1 was agreed as L6.1/6.2.

**ACTION 13:** Secretary to draft a revised specification for B-445.12 (wave energy devices) and include in WG Letter.

### **8.6. Inadequately surveyed/unsurveyed areas**

*Docs: CSPCWG 5-08.6A New complementary option for symbolising Unsurveyed and Inadequately Surveyed Areas*

The meeting agreed that specification B-418 should be modified to allow the option of depicting unsurveyed areas (as defined in B-418) by the Nordic proposed 'blue bands' symbol. However, the meeting agreed that the symbol should not be used for inadequately surveyed areas as defined in B-417.

**ACTION 14:** Secretary to draft a revised specification for B-418 (unsurveyed areas) and include in WG Letter.

The Chairman drew the meeting's attention to the activities of the Data Quality WG (DQWG), which is reviewing issues of survey quality.

### **8.7. New 'Tidal' TR A2.16: adding epoch to Chart Datum**

*Docs: CSPCWG 5-08.7A New 'Tidal' TR A2.16: adding epoch to Chart Datum*

The meeting agreed that applying TR A2.16 is not helpful to the mariner and could possibly be confusing. Also, it would require considerable research and it would not be possible to determine in many cases, as smaller scale charts may be derived from several larger scales, referred to different epochs. WG members could use the paper as a resource when engaged in discussions on the subject.

### **8.8. Virtual AIS**

*Docs: CSPCWG 5-08.8A Not submitted*

The meeting agreed that the position of a virtual AIS should be charted by a magenta dot and circle. A correction should be made to B-489.1 accordingly. Further research is necessary into other aspects, eg whether it is necessary to indicate whether a virtual aid is a lateral mark. It was noted that this part of M-4 was currently under review, therefore additional discussion would occur during the review process. Attention was drawn to a draft IALA 'Guideline on The Establishment of AIS as an Aid to Navigation'; it was felt that IHO should have opportunity to comment on the draft before publication.

**ACTION 15:** M Huet to check that the latest version of IALA paper (The Establishment of AIS as an Aid to Navigation – Edition 1.3) has been sent to IHB for comment and circulate the paper to relevant WGs.

### **8.9. Emissions control areas**

*Docs: CSPCWG 5-08.9A Emissions Control Areas*

The meeting supported US concerns about the difficulties of charting Emissions Control Areas, and endorsed the guidance currently given in B-437.5.

### 8.10. Disused and dismantled platforms

*Docs: CSPCWG 5-08.10A Disused, abandoned or dismantled platforms*

The meeting agreed to chart partly dismantled platforms as ruined: ie 'Ru' or '(ru)' as appropriate. This is to be included in INT1 at L14 (revised term: Platform with superstructure removed). Some minor changes to the proposed wording for B-445.2 were agreed, as follows:

'A disused or abandoned platform may be labelled '(disused)', or equivalent. If the superstructure has been removed, leaving only an above-water base structure, this should instead be labelled 'Ru', or the adjective '(ru)' added under any retained designation (eg Z-44), or descriptor (eg SPM):



**L14**

Features associated with abandoned platforms should also be reviewed, eg:

- pipelines would normally be amended to disused;
- safety zones may still apply and if so should be charted accordingly;
- they may still carry navigation lights, so a flare (and if required a light description) should be included as appropriate;
- if no associated features remain, consideration should be given to enhancing their prominence on the chart (eg with a danger line) as they remain a significant collision hazard.

For charting platforms which have been removed below the surface, see B-422.8.'

**ACTION 16:** Secretary to include draft specification for platform with superstructure removed in WG Letter.

### 8.11. New symbol for shellfish beds

*Docs: CSPCWG 5-08.11A New symbol for K47 Shellfish Beds*

The meeting agreed that a symbol option for shellfish beds should be added to M-4. Some alternatives were examined: the oblique perspective shell proposed by FR was chosen (but to be simplified by removal of the double line). The meeting agreed that the symbol could be used as a centred symbol or, for large areas, as part of the line symbol. The meeting also decided that it should only be used as a magenta symbol, ie where there are no physical obstructions, in accordance with the current specifications. Where physical obstructions do exist, the Marine farm symbol (K48) should continue to be used.



**ACTION 17:** Secretary to draft a revision to B-447.4 (Shellfish beds) and include in a WG letter.

## 9. M-4

### 9.1. Use of pictures/photographs in M-4

*Docs: CSPCWG 5-09.1A Use of pictures/photographs in M-4*

The meeting agreed that occasional use of pictures in M-4 would be useful.

**ACTION 18:** WG members to submit pictures for inclusion in M-4 when they feel they might clarify text which could otherwise be confusing or reduce the need for lengthy descriptions.

Note: Action 18 will be retained until the next CSPCWG meeting, after which it will be considered 'business as usual' and the action closed.

### 9.2. Symbol library

*Docs: CSPCWG 5-09.2A Symbol library (see CSPCWG Letter 13/08)*

The meeting agreed that in view of the split vote on the use of M-4 as a symbol library, and that there is little impact for chart users, that option 4 (the status quo) would be retained. For future consideration, paper chart symbols could be included in an S-100 portrayal register, but not to be progressed before the revision of M-4 is completed.

There may be some symbols where the differences between M-4 and the 3 INT1 is significantly different. The INT1 subWG were invited to examine this and seek ways of reducing the differences.

**ACTION 19:** The INT1 subWG to examine which chart symbols in M-4 and the three official INT1s are significantly different and seek ways of reducing the differences.

### **9.3. B 600 Chart Maintenance – new section**

*Docs: CSPCWG 5-09.3A B-600 draft*

*CSPCWG 5-09.3B B-600 Chart Maintenance – draft New Section, discussion paper*

The meeting examined the marginal comments in the draft B-600 and decided as follows:

B-600 – divergent opinions were expressed about the extent to which NM criteria for paper and electronic charts might be allowed to diverge.

B-601.8 – only UK and US produce recapitulative lists of RNWs. FR suggested that ‘Urgent’ should be reserved for RNW, and perhaps ‘rapid’ should be used for NMs.

B-610 – a short introductory passage about ‘acquisition activities’ will be prepared by FR.

B-611.6 – the WG accepted the need for exceptional chart-updating NMs if the primary charting authority did not respond to correspondence.

B-620.3 – there was no need to change the order. It was agreed that ‘critical and controlling’ should be added in front of ‘depths’ in various places. The demarcation at 31m should be retained.

B-620.3e – Extraction areas should not be added.

B-620.3i should be expanded to cover other exploitation installations

B-620.3m magnetic variation should not be included in this section.

B-630.1, 633.7 & 634.8 await consideration by the ENC Updating WG.

B-631.4 it was agreed that ‘substitute’ is a confusing term; ‘replace’ is better, or use insert/delete. Some other options were noted: add, modify, change, relocate, in lieu of the terms listed.

B-631.5 it was agreed that latitude and longitude should be the first choice for determining position. The existing text on precision of positions was acceptable.

B-631.7 Chart numbers should usually be listed in numerical order.

B-632.3 No better term than ‘mentions’ was suggested.

B-632.6 Sec to check that the dimensions given here are correct (may be a typo).

**ACTION 20:** Meeting participants to respond to CSPCWG Letter 12/2008 (on draft B-600) by 9 January 2009, taking account of the discussion.

**ACTION 21:** FR to prepare a short introductory passage about data acquisition activities for inclusion in B-610 (copy to Secretary for inclusion in Round 2).

### **9.4. T&P NMs**

*Docs: CSPCWG 5-9.4A (T) & (P) Notices to Mariners to be used with ENC's*

CHRIS 20 has instigated an ENC Updating WG (EUWG), led by France. The CSPCWG input to this WG will be the draft B-600.

**ACTION 22:** Secretary to supply a copy of the draft B-600 to the Chairman of the ENC Updating WG (Jean-Luc.Daniel@shom.fr).

### **9.5. B-480 to B-499 draft**

*Docs: CSPCWG 5-9.5A B-480-499 draft*

The meeting considered the questions submitted by the Secretary to assist with the drafting of the B-480 to B499 revision. The following advice was given, related to CSPCWG 5-9.5A:

1. Details of obsolete radio beacons can be reduced to a short historical paragraph
2. Specification for Loran (both Loran C and Enhanced Loran) not required
3. No requirement for option to use dots and dashes for morse identifiers.
4. Already decided at CSPCWG4
5. Reason not known
6. Position circle with flare preferred
7. Reorganize as appropriate
8. Delete.

**ACTION 23:** Secretary to amend draft B-480 to B-489 in accordance with the advice of the meeting.

## **10. Other CSPCWG publications**

### **10.1. M-11**

#### **10.1.1. Part A – Regional Charting Group Co-ordinators**

The Chairman briefed the meeting on the request from CHRIS20 that the CSPCWG should take on two new tasks. The recent WEND meeting had reflected concern that there is inconsistency in small and medium scale ENC schemes across regions. Some guidelines similar to those for INT paper chart schemes in M-11 Part A would help to overcome this. Also, the remit of Regional Chart Coordinators has been extended to include ENC schemes and it is time some Terms of Reference and Rules of Procedure are drawn up for their guidance. CHRIS20 therefore tasked the CSPCWG to:

- a. develop guidelines for the preparation and maintenance of small/medium scale ENC schemes and reflect these in S-65 or through a new document similar to M-11.
- b. develop Terms of Reference and Rules of Procedure for INT chart coordinators (to include addressing small/medium ENC schemes) and reflect these in M-11 Part A.

The meeting agreed that S-65 is not a suitable publication to include these guidelines and TOR/ROP. M-11 is more suitable, but may need some reorganization to include these additions and also a catalogue of ENC schemes.

These new tasks have been included in the CSPCWG Work Plan: items B2 and B3.

#### **10.1.2. Part B – Redesign of document**

*Docs: CSPCWG 5-10.1.2A Suggested new format for M-11, Part B*

M Huet (IHB) briefed the meeting on his plans to redesign M-11 Part B into a single landscape format document (instead of the current two hyper-linked portrait documents). The meeting endorsed the new design, but suggested that the edition column should be headed 1st Ed/NE and the date of the 1<sup>st</sup> edition should be retained. The producer nation should be the current producer. Plans which are part of the INT scheme will be included, but not minor large scale plans, eg of bridge spans.

**ACTION 24:** IHB to progress the reformat of M-11 Part B.

### **10.2. M-15**

*Docs: CSPCWG 5-10.2A Draft New Edition of M-15*

The meeting speculated about the origins of TR K1.1, which resulted in the current publication M-15. However, they could not see any current need for it, particularly noting the old and questionable status of many of the entries. The meeting decided therefore that an IHO CL should be issued to ascertain whether there is any further requirement for updating and continuing to publish M-15, noting the fact that CSPCWG recommends that it should be cancelled.

**ACTION 25:** Sec/Chairman to draft IHO CL to the effect that, in preparing a new edition of M-15, the question had arisen of its continuing value, and that the CSPCWG consider it to be obsolete and should be discontinued, and TR K1.1 should be cancelled.

### **10.3. S-49 Review**

*Docs: CSPCWG 5-10.3A S-49*



S Spohn (DE) briefed the meeting on the formation of the S-49 subWG, led by Germany with participants from DK, GR, UK and US (and advice from FI). The old S.P.049 has been digitised as a first step. TOR have been drawn up by the Chairman of the subWG. The meeting endorsed the formation of the subWG, and its TOR and thanked DE for taking on this work. This work is included in the CSPCWG Work Plan at work item F.1.

## 11. INT 1 / 2 / 3

### 11.1. Report by INT1 subWG on INT1

*Docs: CSPCWG 5-11.1A Report of INT1 subWG*

The Secretary briefed the meeting on the inter-session work of the INT1 subWG and the meeting endorsed its continuing existence. The Chairman thanked the members of the INT1 subWG for their work, and the HOs which sponsor it.

M de Graaf (NL) also expressed thanks to ES, FR, UK and IHB for assistance in the preparation of INT2.

### 11.2. Proposal for new INT abbreviation: MRCC

*Docs: CSPCWG 5-11.2A Proposal for new INT abbreviation: MRCC (Maritime Rescue Co-ordination Centre)*

The meeting agreed that MRCC (for Maritime Rescue and Coordination Centre) should be accepted as an INT abbreviation. It can be used in a chart context to include Joint RCCs. There is no need for a symbol in INT1 section T, but the abbreviation should be included in next editions of INT1 at V, and in M-4 at B-122.1. The Secretary should add a brief specification in the revision of B-480, which can be drawn to the attention of MS when the IHO CL is sent out.

**ACTION 26:** Secretary to include MRCC in revision of M-4 section B-480, and draw the attention of MS in covering draft IHO CL.

### 11.3. Removal of INT1 section W and/or highlighting section V

*Docs: CSPCWG 5-11.3A Removal of INT1 section W and/or highlighting section V*

The meeting agreed that it would be helpful to highlight (eg by bold) the INT abbreviations within Section V of INT1 (as suggested by ES). The question as to whether the removal of Section W would result in the Index becoming Section W would need to be addressed at a later meeting. Consideration would also have to be given to the consequences of removing section G and O (see 11.5).

**ACTION 27:** INT1 subWG to consider:

- how to highlight the INT abbreviations within section V.
- whether to rearrange section letters consequent on deletion of G, O and W.

### 11.4. Explanation of 'Recommended' in INT1

*Docs: CSPCWG 5-11.4A Explanation of 'Recommended' in INT1*

The meeting could not agree suitable wording for INT1 to draw attention to the fact that some or all recommended tracks and routing measures are not recommended by the charting authority. This is partly because of different organizational situations of the various HOs. Also, there was some doubt as to whether such wording is useful, or would be better given within other publications (such as Annual NMs, The Mariner's Handbook). WG members were invited to study their own publications to see if such clarifications are, or could be, expressed in their publications and advise the rest of the WG of their findings.

**ACTION 28:** WG members to study their own publications to see if clarifications of the term "recommended" are, or could be, expressed in their publications and advise the rest of the WG (through the Secretary) of their findings, by end February 2009.

**ACTION 29:** INT1 subWG to consider inputs regarding the term 'recommended' from WG members and consider further for the next round of INT1 new editions.

### 11.5. Paper INF.1 'Review of the content of INT1 sections G and O' was taken at this point:

*Docs: CSPCWG 5-INF.1 Review of the content of INT1 sections G and O*

The meeting agreed that sections G & O can be removed from INT1, and instead be replaced by a glossary/index in section X. Terms that have no other place in INT1 will simply have no cross reference location.

**ACTION 30:** INT1 subWG to review FR's suggested list of terms and develop the idea of a glossary/index in lieu of G & O, including how to deal with vacant sections G, O and W.

## 12. Lessons learned from Marine Incidents

*Docs: CSPCWG 5-12.1A      Sharing experience of marine incidents and possible impacts for charts*

The Chairman outlined an incident in UK waters that had led to a review in TSMAD of the use of CATZOCs. He suggested that such incidents could usefully be shared in international fora, such as CSPCWG, as a learning experience and to support a process of continuous improvement, which may result in changes of charting practice.

**ACTION 31:** WG members are encouraged to actively review their own national sources and bring to the attention of the WG (or whichever is the appropriate body) issues arising out of marine incidents for consideration. (Using the Chairman or Secretary of CSPCWG as point of contact.)

Note: Action 31 will be retained until the next CSPCWG meeting, after which it will be considered 'business as usual' and the action closed.

## 13. Review of Work Plan

### 13.1. New items:

The meeting agreed the following new work items:

- B2      Develop ToR / RoP for INT Chart Coordinators
- B3      Develop guidelines for preparation & maintenance of small / medium scale ENC schemes.
- D14     Develop revised specifications for bridges (especially supports)
- D15     Develop new specifications for pipeline tunnel entrance
- D16     Develop revised specifications for wave energy devices
- D17     Develop revised specifications for unsurveyed areas
- D18     Develop revised specifications for platform with superstructure removed
- D19     Develop revised specifications for shellfish beds
- G1      Review M-15 for NE or withdrawal

### 13.2. Priorities

The meeting agreed priorities as follows:

- B2      High
- B3      Medium
- D14     High
- D15-19   Medium
- G1      Low

### 13.3. Other details

The meeting agreed that the Chairman and Secretary should update other details of the Work Plan out-of-meeting and annex to this record.

A copy of the fully revised plan is at ANNEX D.

## 14. Any Other Business

### 14.1. Reports from non-attendees

No reports from non-attendees had been received.

#### **14.2. Items to bring to the attention of CHRIS/HSSC**

No particular items were identified that should be brought to the attention of CHRIS. The Chairman's annual report to CHRIS is considered adequate for most purposes.

#### **14.3. Report of Capacity Building activities to CBC.**

The meeting was content that the Chairman should produce a report to the CBC Chairman updating that rendered after CSPCWG4.

**ACTION 32:** Chairman to construct updated report to CBC Chairman.

#### **14.4. INF Papers and other matters.**

- a. INF.1 was taken at 11.5.
- b. The Chairman raised the issue of certain light descriptions that were unusual and explained that IALA had been consulted for advice:
  - i. **Iso 1s.** IALA advised this should be charted as **Q**. (See also IALA Recommendation E-110)
  - ii. **F.Q(6) + LFI.Bu15s.** IALA recommended this would be better charted as **Q(6)+LFI.Bu.15s & F.Bu.**
  - iii. **F.Iso.R.3s.** IALA recommended this would be better charted as **Iso.R.3s & F.R**
  - iv. ii and iii above raised the issue of whether **FFI** is actually a useful abbreviation, ie would **FI & F** be better?

**ACTION 33:** Secretary to draft WG letter regarding the use of abbreviation **FFI**.

- c. DE raised the combined charting of environmental areas, in green, with entry prohibited symbol N2.2 in magenta. The meeting agreed that, in accordance with M-4, the magenta limit should take precedence over the green limit, which would also retain its association with the magenta entry prohibited symbol. However, it was suggested that a green tint band could be added to identify the limit with environmental purposes. Most importantly, the depiction should be unambiguous; cartographic judgement was needed.
- d. SE commented on problems encountered with too much magenta detail making it difficult for the user to discern important routing information. It was suggested that use of bolder, longer dashes for routing measures, and occasional use of tint bands to emphasise important detail such as precautionary areas could alleviate the problem. UK also mentioned that exceptionally, they suppress the prominence of cables and pipelines in congested areas, by using a 30% stipple tint.

**ACTION 34:** Secretary to provide UKHO internal guidance details and examples of suppressed cables and pipelines to meeting participants.

#### **15. Date, duration and venue of next meeting (CSPCWG 6)**

The participants agreed that regular (approximately annual) meetings of CSPCWG are valuable for progressing business efficiently. Additionally, it provides excellent opportunities to share experiences, national best practices and charting problems with other marine cartographic experts for significant mutual benefit.

The duration of 3 full days for discussions was considered to be about right.

As an IHO technical WG, the participants agreed that the next meeting should be around November 2009.

WG members are encouraged to note items for the next meeting throughout the year (and advise the Secretary).

**ACTION 35:** Chairman to determine date and venue for CSPCWG 6 in 2009.

**ACTION 36:** All WG members to make early bids for travel budget; advise Chairman if any difficulties.

**ACTION 37:** All WG members to note agenda items for CSPCWG 6 throughout the year (and forward to Secretary as they arise).

- A Agenda
- B List of Conference documents (Note: actual documents are available on IHO website)
- C CSPCWG Membership and Participants in CSPCWG5
- D CSPCWG Work Plan (updated at CSPCWG5)
- E CSPCWG5 Actions
- F List of Acronyms and Abbreviations used at CSPCWG5

**5th CSPCWG MEETING  
Sydney, 18-21 November 2008**

**AGENDA**

- 1. Welcome, Introductions and Administrative Arrangements**
  - Docs: CSPCWG5-01A. List of documents*
  - CSPCWG5-01B. List of meeting participants and WG members*
- 2. Approval of Agenda**
  - Docs: CSPCWG5-02A. Agenda*
- 3. Status of Actions from CSPCWG4**
  - Docs: CSPCWG5-03A. Status of actions from CPSCWG4*
- 4. Relationship with CHRIS**
  - 4.1. Notes from CHRIS 20 (Chairman)**
    - Docs: CSPCWG5-04.1A. CSPCWG report to CHRIS20*
    - CSPCWG5-04.1B Report from CHRIS20*
  - 4.2. Brief on TSMAD activities (Vice Chairman)**
    - Docs: CSPCWG5-04.2A Report to CSPCWG5 on TSMADWG activities*
  - 4.3. Brief on CSMWG activities (Vice Chairman)**
    - Docs: CSPCWG5-04.3A Report to CSPCWG5 on CSMWG activities*
- 5. Terms of Reference**
  - Docs: CSPCWG5-05A CSPCWG Terms of Reference (with draft changes agreed at CSPCWG4)*
  - CSPCWG5-05B TOR discussion paper*
- 6. CSPCWG procedures**
  - Docs: CSPCWG 5-06A CSPCWG Procedures (agreed at CSPCWG4)*
  - CSPCWG5-06B Procedures discussion paper*
- 7. CSPCWG work plan**
  - 7.1. Summary of progress (Chairman)**
    - Docs: CSPCWG 5-07A Updated work plan*
- 8. Chart content:**
  - 8.1. Rounding rules (AU)**
    - Docs: CSPCWG5-08.1A*
  - 8.2. Tonnage (AU)**
    - Docs: CSPCWG5-08.2A*
  - 8.3. Pipelines in tunnels (NO)**
    - Docs: CSPCWG5-08.3A Pipeline tunnels*
  - 8.4. Bridge supports & detail under bridges (Chairman)**
    - Docs: CSPCWG5-08.4A Charting bridge supports and detail under bridges*
  - 8.5. Offshore Renewable Energy Installations (OREI) (Chairman)**
    - Docs: CSPCWG5-08.5A Offshore Renewable Energy Installations*
  - 8.6. Inadequately surveyed/unsurveyed areas (SE)**
    - Docs: CSPCWG5-08.6A New complementary option for symbolising Unsurveyed and Inadequately Surveyed Areas*
  - 8.7. New 'Tidal' TR A2.16: adding epoch to Chart Datum (UK)**
    - Docs: CSPCWG5-08.7A New 'Tidal' TR A2.16: adding epoch to Chart Datum*
  - 8.8. Virtual AIS (DK)**
    - Docs: CSPCWG5-08.8A*
  - 8.9. Emissions Control Areas (US)**
    - Docs: CSPCWG5-08.9A*
  - 8.10. Disused and dismantled platforms (UK)**
    - Docs: CSPCWG5-08.10A Disused, abandoned or dismantled platforms*
  - 8.11. New symbol for K47 Shellfish Beds (FR)**
    - Docs: CSPCWG5-08.11A New symbol for K47 Shellfish Beds*
- 9. M-4**
  - 9.1. Use of pictures/photographs in M-4 (UK)**
    - Docs: CSPCWG5-09.1A Use of pictures and photographs in M-4*

**9.2. Symbol library (Chairman)**

*Docs: CSPCWG5-09.2A      Symbol library*

**9.3. B-600 Chart Maintenance – New section (Chairman)**

*Docs: CSPCWG5-09.3A      M-4 B-600 draft*

*CSPCWG5-09.3B      B-600 Chart Maintenance – draft New Section, discussion paper*

**9.4. T&P NMs (FR)**

*Docs: CSPCWG5-09.4A*

**9.5. B-480-499 draft (Chairman)**

*Docs: CSPCWG5-09.5A*

**10. Other CSPCWG publications**

**10.1. M-11**

**10.1.1. Part A - Regional Charting Group Co-ordinators (Chairman)**

**10.1.2. Part B – Redesign of document (IHB)**

*Docs: CSPCWG5-10.1.2A      Suggested new format for M-11, part B*

**10.2. M-15 (IHB)**

*Docs: CSPCWG5-10.2A      Draft New Edition of M-15*

**10.3. S-49 review (DE)**

*Docs: CSPCWG5-10.3A*

**11. INT 1 / 2 / 3**

**11.1. Report of subWG on INT1 (Sec)**

*Docs: CSPCWG5-11.1A      Report of INT1 subWG*

**11.2. Proposal for new INT abbreviation: MRCC (FR)**

*Docs: CSPCWG5-11.2A      Proposal for new INT abbreviation: MRCC (Maritime Rescue Co-ordination Centre)*

**11.3. Removal of INT1 section W and/or highlighting section V (Sec)**

*Docs: CSPCWG5-11.3A      Removal of INT1 Section W / highlighting Section V*

**11.4. Explanation of 'Recommended' in INT1 (Sec/FR)**

*Docs: CSPCWG5-11.4A      Explanation of 'Recommended' in INT1*

**12. Lessons learned from Marine Incidents**

**12.1. Sharing experience of marine incidents and possible impacts for charts (Chairman)**

*Docs: CSPCWG 5-12.1A      Sharing experience of marine incidents and possible impacts for charts*

**13. Review of Work Plan**

**13.1. New items**

**13.2. Priorities**

**13.3. Timescales for tasks**

**14. Any Other Business**

**14.1. Reports from non-attendees**

**14.2. Items to bring to attention of CHRIS**

**14.3. Report of Capacity Building activities to CBC**

**14.4. INF papers:**

*Docs: CSPCWG 5-INF.1      Review of the content of INT1 sections G & O*

**15. Date, duration and venue of next meeting**

**5th CSPCWG MEETING  
Sydney, 18-21 November 2008**

**LIST OF DOCUMENTS**

- CSPCWG 5-01A rev3 *List of documents*  
CSPCWG 5-01B rev2 *List of meeting participants and WG members*
- CSPCWG 5-02A rev3 *Agenda*
- CSPCWG 5-03A rev1 *Status of actions from CPSCWG4*
- CSPCWG 5-04.1A *CSPCWG report to CHRIS20*  
CSPCWG 5-04.1B *Report from CHRIS20*  
CSPCWG 5-04.2A *Report to CSPCWG5 on TSMADWG activities*  
CSPCWG 5-04.3A *Report to CSPCWG5 on CSMWG activities*
- CSPCWG 5-05A *CSPCWG Terms of Reference (with draft changes agreed at CSPCWG4)*  
CSPCWG 5-05B rev1 *TOR discussion paper*
- CSPCWG 5-06A rev1 *CSPCWG Procedures (agreed at CSPCWG4)*  
CSPCWG 5-06B rev1 *Procedures discussion paper*
- CSPCWG 5-07A *Updated work plan*
- CSPCWG 5-08.3A *Pipelines in tunnels*  
CSPCWG 5-08.4A *Charting bridge supports and detail under bridges*  
CSPCWG 5-08.5A *Offshore Renewable Energy Installations (OREI)*  
CSPCWG 5-08.6A *New complementary option for symbolising Unsurveyed and Inadequately Surveyed Areas*  
CSPCWG 5-08.7A *New 'Tidal' TR A2.16: adding epoch to Chart Datum*  
CSPCWG 5-08.9A *Emissions Control Areas*  
CSPCWG 5-08.10A *Disused, abandoned or dismantled platforms*  
CSPCWG 5-08.11A *New symbol for K47 Shellfish Beds*
- CSPCWG 5-09.1A *Use of pictures and photographs in M-4*  
CSPCWG 5-09.2A *Symbol library (see CSPCWG Letter 13/09)*  
CSPCWG 5-09.3A *B-600 draft*  
CSPCWG 5-09.3B *B-600 Chart Maintenance – draft New Section, discussion paper*  
CSPCWG 5-09.4A *T&P NMs*  
CSPCWG 5-09.5A *B-480-499 draft*
- CSPCWG 5-10.1.2A *Suggested new format for M-11, part B*  
CSPCWG 5-10.2A *Draft New Edition of M-15*  
CSPCWG 5-10.3A *S-49*
- CSPCWG 5-11.1A *Report of INT1 subWG*  
CSPCWG 5-11.2A *Proposal for new INT abbreviation: MRCC (Maritime Rescue Co-ordination Centre)*  
CSPCWG 5-11.3A *Removal of INT1 section W and/or highlighting section V*  
CSPCWG 5-11.4A *Explanation of 'Recommended' in INT1*
- CSPCWG 5-12.1A *Sharing experience of marine incidents and possible impacts for charts*
- CSPCWG 5-INF.1 *Review of the content of INT1 sections G and O*

**5<sup>th</sup> CSPCWG MEETING**  
**Sydney, 18-21 November 2008**

**CSPCWG5 PARTICIPANTS AND MEMBERSHIP OF CSPCWG**

<b>Member State</b>	<b>Name</b>	<b>Participant in CSPCWG5</b>	<b>Email address</b>
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UK	Mr Andrew HEATH-COLEMAN ( <b>Secretary</b> )	YES	<a href="mailto:andrew.coleman@ukho.gov.uk">andrew.coleman@ukho.gov.uk</a>
USA (NOAA)	Mr Robert HEELEY	YES	<a href="mailto:robert.heeley@noaa.gov">robert.heeley@noaa.gov</a>
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\* Guest participant at CSPCWG5



## CSPCWG Work Plan

(updated during CSPCWG5 - November 2008)

- Objectives, Tasks and Work Items are pursued in accordance with IHO Work Programme 2008-2012, Programme 3 (Techniques and Standards Coordination and Support):
  - Element 3.1 Meetings of Working Groups:
    - Task 3.1.3 Chart Standardization and Paper Chart Working Group
  - Element 3.3 Nautical Cartography. In particular:
    - Task 3.3.1 Nautical publications
    - Task 3.3.5 INT Chart Series
- The focus is on maintaining and enhancing the cartographic standards in paper charts to suit the needs of the modern mariner in support of safe navigation, whilst drawing together, wherever possible, common issues of paper/electronic charting.
- As a Plan it will and should evolve; accordingly, contributions from WG members and others are welcomed at any time.

### CSPCWG Tasks

- A Revise, develop and maintain Publication M-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts' (IHO T3.3.1 refers)
- B Revise, develop and maintain Publication M-11 'Catalogue of INT Charts' Part A maintained by CSPCWG (IHO T3.3.1 refers)
- D Development of new (and revised) symbology
- E Maintenance of M-4 supplementary publications INT 1, 2 & 3 (IHO T3.3.1 refers)
- F Revise, develop and maintain S-49 'Recommendations concerning Mariners' Routeing Guides'
- G Revise, develop and maintain Publication M-15 'List of Booklets on Chart Symbols & Abbreviations' (IHO T3.1.3 refers)
- H Review selected Technical Resolutions from Publication M-3 'Technical and Administrative Resolutions'

Task	Work item	Priority H-high M-medium L-low	Next Milestone	Start Date	End Date	Status P-Planned O-Ongoing C-Completed	Contact Person(s)	Affected Pubs/Standard	Remarks
A.4	Revise M-4 Part B Section 400	H	Revise and publish	2005	2009	O	Sec CSPCWG	M-4 / B-400	B-400 divided into sub-sections for manageability.
A.4.4.1	Sub-section B-450 to B-479	H	Approval of MS	2007	2008	O	Sec CSPCWG	M-4 / B-400	PDF version prepared, CL71/2008 refers
A.4.4.2	Sub-section B-480 to B-499	H	WG Ltr for round 1	2008	2009	O	Sec CSPCWG	M-4 / B-400	Draft in prep
A.5	Revise M-4 Part B Section 300	L	Completion of A.8			P	Sec CSPCWG	M-4 / B-300	Start after A.8 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 B-600	M	Responses to WG Ltr 14/08	2006	2009	O	Sec CSPCWG	M-4 / B-600	1 <sup>st</sup> draft with WG
B.2	Develop ToR / RoP for INT Chart Coordinators	H		2009	2009	P	Chair CSPCWG	M-11 Part A	CHRIS Action 20/23
B.3	Develop guidelines for preparation & maintenance of small / medium scale ENC schemes.	M		2009	2010	P	Chair CSPCWG	M-11 / S-65 ?	CHRIS Action 20/24
D.9	Develop new symbol for synchronized and sequential lights	M	Approval of MS	2005	2008	O	Sec CSPCWG	M-4, INT 1	Included in A.4.4.1
D.13	Mangroves	M	Approval of MS	2006	2008	O	Sec CSPCWG	M-4, INT 1	CL71/2008 refers
D.14	Bridges (especially supports)	H	WG Ltr	2008	2009	O	Sec CSPCWG	M-4	Discussed at CSPCWG5
D.15	Pipeline tunnel entrance	M	WG Ltr	2008	2010	O	Sec CSPCWG	M-4, INT 1	Discussed at CSPCWG5
D.16	Wave energy devices	M	WG Ltr	2008	2010	O	Sec CSPCWG	M-4, INT 1	Discussed at CSPCWG5
D.17	Unsurveyed areas	M	WG Ltr	2008	2010	O	Sec CSPCWG	M-4, INT 1	Discussed at CSPCWG5
D.18	Platform with superstructure removed	M	WG Ltr	2008	2010	O	Sec CSPCWG	M-4, INT 1	Discussed at CSPCWG5
D.19	Shellfish beds	M	WG Ltr	2008	2010	O	Sec CSPCWG	M-4, INT 1	Discussed at CSPCWG5
E.1	Maintain official INT 1s	n/a	Next round of revisions to be considered after pub of B450-479			P	FR: Y Le Franc ES: J Millan DE: S Spohn	INT 1	French version 2006. Spanish version 2007. English version 2008 (by DE).
E.4	Symbols for vacant entries in INT 1	L	Review when revision of M-4 completed			P	Sec CSPCWG	INT 1, M-4 part B	

E.5	Small craft symbols	L				P	Sec CSPCWG	INT 1, M-4 part B	
E.7	Review terms in INT1 for consistency with M-4	L	Review at next new editions of INT1			P	Sec CSPCWG & INT1 subWG		Selected review conducted, concluding no significant issue.
E.8	Move part of INT1 K into L	L	When next new editions of INT1 are prepared			P	INT1 subWG		CSPCWG4 Action 33
F.1	Review S-49	M	Draft from S-49 subWG	2008	2009	O	DE (J Schröder-Fürstenberg)	S-49	
G.1	Review M-15 for NE or withdrawal	L	IHO CL	2008	2009	O	IHB (M Huet)	M-15	CSPCWG5 Action 25: Chair/Sec to draft CL

### CSPCWG Meetings (IHO T3.1.3 refers)

Date	Location	Activity
03-05 Nov 04	IHB, Monaco	CSPCWG 1
19-21 Oct 05	IHB, Monaco	CSPCWG 2
22-24 Nov 06	IHB, Monaco	CSPCWG 3
13-15 Nov 07	IHB, Monaco	CSPCWG 4
18-21 Nov 08	Sydney, Australia	CSPCWG 5
Nov 09	tbd	CSPCWG 6

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**5th CSPCWG MEETING  
Sydney, 18-21 November 2008**

**ACTIONS**

<b>No</b>	<b>Action</b>	<b>Delegate</b>	<b>Status</b>
1	Secretary to produce draft report of CSPCWG 5 by end December 2008, for participants to approve.	Sec	Completed
2	INT1 producers to amend term for K31 to 'Foul ground, not dangerous to surface navigation, but to be avoided by vessels anchoring, trawling, etc (eg remains of wreck, cleared platform) at next new edition of INT1.	INT1 producers	
3	Secretary to communicate with HDWG to make them aware of the issues regarding the use of the term 'Foul'.	Sec	
4	AU to review TSMAD progress with the issue of Fouls and keep CSPCWG informed.	AU	
5	All WG members to report to Chairman any substantive discussion or progress about a combined INT1/S-52 symbol document. (Chairman to keep Chairman DIPWG informed).	All WG	
6	Secretary to amend CSPCWG5-04.1B to change 'WEND' to 'CHRIS' as having tasked CSPCWG (both bullets of paragraph 8 of document 5-04.1B) and arrange for rev1 to be posted on IHO website.	Sec	Completed
7	Secretary to ask Chairman TSMAD to advise when to correct M-4 regarding CATZOC categories.	Sec	
8	IHB to amend the TOR on the IHO website by replacing references to CHRIS and CSMWG by HSSC and DIPWG respectively (from 1/1/09).	IHB	Completed
9	Secretary to make changes to CSPCWG Procedures, based on recommendations from CSPCWG 5-06A rev1.	Sec	Completed
10	Secretary to draft specification for pipeline tunnel entrance, and include in WG letter.	Sec	
11	Secretary to draft revised specification B-381 (Bridges), including some examples and include in WG letter.	Sec	
12	All WG members to provide small graphics of particularly good examples of chart depiction of bridges to Secretary by end January 2009.	All WG	
13	Secretary to draft a revised specification for a B-445.12 (wave energy devices) and include in WG Letter.	Sec	
14	Secretary to draft a revised specification for B-418 (unsurveyed areas) and include in WG Letter.	Sec	
15	M Huet to check that the latest version of IALA paper (The Establishment of AIS as an Aid to Navigation – Edition 1.3) has been sent to IHB for comment and circulate the paper to relevant WGs.	IHB	
16	Secretary to include draft specification for 'platform with superstructure removed' in WG Letter.	Sec	
17	Secretary to draft a revision to B-447.4 (Shellfish beds) and include in a WG letter.	Sec	
18	WG members to submit pictures for inclusion in M-4 when they feel they might clarify text which could otherwise be confusing or reduce the need for lengthy descriptions.  NB: Action 18 will be retained until the next CSPCWG meeting, after which it will be considered 'business as usual' and the action closed.	All WG	

19	The INT1 subWG to examine which chart symbols in M-4 and the three official INT1s are significantly different and seek ways of reducing the differences.	INT1 producers	
20	Meeting participants to respond to CSPCWG Letter 12/2008 (on draft B-600) by 9 January 2009, taking account of the discussion.	Participants	Completed
21	FR to prepare a short introductory passage about data acquisition activities for inclusion in B-610 (copy to Secretary for inclusion in Round 2).	FR	Completed
22	Secretary to supply a copy of the draft B-600 to the Chairman of the ENC Updating WG ( <a href="mailto:Jean-Luc.Deniel@shom.fr">Jean-Luc.Deniel@shom.fr</a> ). <b>The Chairman of the EUWG is now Yves Le Franc, who already has a copy of the draft B-600.</b>	Sec	Completed
23	Secretary to amend draft B-480 to B-489 in accordance with the advice of the meeting.	Sec	
24	IHB to progress the reformat of M-11 Part B.	IHB	
25	Sec/Chairman to draft IHO CL to the effect that, in preparing a new edition of M-15, the question had arisen of its continuing value, and that the CSPCWG consider it to be obsolete and should be discontinued, and TR K1.1 should be cancelled.  <b>CL105-08 issued by IHB 15 December 2008, for Member State response by 1 March 2009.</b>	Sec/Chair	Completed by IHB
26	Secretary to include MRCC in revision of M-4 section B-480, and draw the attention of MS in covering draft IHO CL.	Sec	
27	INT1 subWG to consider: <ul style="list-style-type: none"> <li>o how to highlight the INT abbreviations within section V.</li> <li>o whether to rearrange section letters consequent on deletion of G, O and W.</li> </ul>	INT subWG	
28	WG members to study their own publications to see if clarifications of the term 'recommended' are, or could be, expressed in their publications and advise the rest of the WG (through the Secretary) of their findings, by end February 2009.	All WG	
29	INT1 subWG to consider inputs regarding the term 'recommended' from WG members and consider further for the next round of INT1 new editions.	INT1 subWG	
30	INT1 subWG to review FR's suggested list of terms and develop the idea of a glossary/index in lieu of G & O, including how to deal with vacant sections G, O and W.	INT1 subWG	
31	WG members are encouraged to actively review their own national sources and bring to the attention of the WG (or whichever is the appropriate body) issues arising out of marine incidents for consideration. (Using the Chairman or Secretary of CSPCWG as point of contact.)  NB: Action 31 will be retained until the next CSPCWG meeting, after which it will be considered 'business as usual' and the action closed.	All WG	
32	Chairman to construct updated report to CBC (IRCC) Chairman	Chair	
33	Secretary to draft WG letter regarding the use of abbreviation <b>FFI</b> .	Sec	
34	Secretary to provide UKHO internal guidance details and examples of suppressed cables and pipelines to meeting participants.	Sec	Completed
35	Chairman to determine date and venue for CSPCWG 6 in 2009.	Chair	
36	All WG members to make early bids for travel budget; advise Chairman if any difficulties.	All WG	
37	All members to note agenda items for CSPCWG 6 throughout the year (and forward to Secretary as they arise).	All WG	

**5th CSPCWG MEETING  
Sydney, 18-21 November 2008**

**LIST OF ACRONYMS AND ABBREVIATIONS USED AT CSPCWG5**

(that are not given in full in the immediate vicinity in the text. Light descriptions not included.)

<b>AIS</b>	Automatic Identification System
<b>AHS</b>	Australian Hydrographic Service
<b>AU</b>	Australia
<b>BSH</b>	Bundesamt für Seeschifffahrt und Hydrographie (Germany)
<b>CATZOC</b>	Category of Zone of Confidence
<b>CBC</b>	Capacity Building Committee (of IHO)
<b>CD</b>	Compact Disc
<b>CHRIS</b>	Committee on Hydrographic Requirements for Information Systems (of IHO)
<b>CL</b>	Circular Letter (of IHO)
<b>CSMWG</b>	Colours and Symbols Maintenance WG (of CHRIS)
<b>CSPCWG</b>	Chart Standardization and Paper Chart WG (of CHRIS)
<b>DE</b>	Germany
<b>DIPWG</b>	Digital Information Portrayal Working Group (of HSSC)
<b>DK</b>	Denmark
<b>doc</b>	CSPCWG5 document or paper associated with the meeting
<b>Ed</b>	Edition
<b>ENC</b>	Electronic Navigational Chart
<b>ES</b>	Spain
<b>FR</b>	France
<b>HDWG</b>	Hydrographic Dictionary Working Group (of HSSC)
<b>HO</b>	Hydrographic Office
<b>HSSC</b>	Hydrographic Standards and Services Committee (of IHO)
<b>IALA</b>	International Association of Marine Aids to Navigation and Lighthouse Authorities
<b>IHB</b>	International Hydrographic Bureau
<b>IHO</b>	International Hydrographic Organization
<b>INF</b>	Information paper
<b>INT</b>	International
<b>INT1</b>	Symbols, Abbreviations, Terms used on Charts
<b>INT2</b>	Borders, Graduations, Grids and Linear Scales
<b>INT3</b>	Use of Symbols and Abbreviations - standard reference chart
<b>Kg</b>	Kilogram
<b>KR</b>	Republic of Korea
<b>Ltr</b>	Letter
<b>M-3</b>	Resolutions of the IHO
<b>M-4</b>	Chart Specifications of the IHO
<b>M-11</b>	Part A: Guidance for the preparation and maintenance of INT chart schemes Part B: Catalogue of INT charts
<b>M-15</b>	List of Booklets of Chart Symbols and Abbreviations Published by Various Maritime Countries
<b>MRCC</b>	Maritime Rescue and Coordination Centre
<b>MS</b>	Member State (of IHO)
<b>n/a</b>	Not applicable
<b>NGA</b>	National Geospatial-Intelligence Agency (USA)
<b>NE</b>	New edition
<b>NL</b>	Netherlands
<b>NM</b>	Notice to Mariners
<b>NO</b>	Norway
<b>NOAA</b>	National Oceanic and Atmospheric Administration (USA)
<b>OREI</b>	Offshore renewable energy installation
<b>PDF</b>	Portable Document Format
<b>prep</b>	Preparation
<b>RCG</b>	Regional Charting Group
<b>ROP</b>	Rules of procedure

<b>RNW</b>	Radio Navigational Warnings
<b>Ru</b>	Ruin
<b>(ru)</b>	Ruined
<b>S-32</b>	Hydrographic Dictionary
<b>S-49</b>	Guidance for Mariners' Routeing Guides
<b>S-52</b>	Specifications for Chart Content and Display Aspects of ECDIS
<b>S-65</b>	ENC Production Guidance
<b>S-100</b>	(Proposed) IHO Geospatial Standard for Hydrographic data
<b>SE</b>	Sweden
<b>Sec</b>	Secretary (of CSPCWG)
<b>T&amp;P NM</b>	Temporary & Preliminary Notices to Mariners
<b>TOR</b>	Terms of reference
<b>TR</b>	Technical Resolution (of the IHO) – see M-3
<b>TSMAD</b>	Transfer Standard Maintenance and Application Development Working Group (of CHRIS)
<b>UK</b>	United Kingdom of Great Britain and Northern Ireland
<b>US</b>	United States of America
<b>WEND</b>	World-wide Electronic Navigational Chart Database (Committee of IHO)
<b>WG</b>	Working Group (of IHO)