

**6th CSPCWG MEETING
Monaco, 1-3 December 2009**

REPORT

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Report (Note: The paragraph numbering is the same as in the agenda).

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REPORT:

1. Welcome, Introductions and Administrative Arrangements

Docs: CSPCWG6-01A List of documents
CSPCWG6-01B List of meeting participants and WG members

Captain Robert Ward (Director IHB) welcomed the CSPCWG. He commented that the work of this working group is closely related to that of other HSSC working groups and emphasised the need for cooperation and good communications between the WGs.

The participants introduced themselves, some of whom were attending their first WG meeting. A list of meeting participants is at ANNEX C. The Chairman had received apologies from Indonesia, New Zealand, South Africa and Ukraine.

The Chairman outlined his plans for the meeting and thanked IHB for hosting CSPCWG6. He also thanked members for attending, acknowledging the cost and therefore the need to make good use of the opportunities to make progress. Noting the reliance on email for effective correspondence, 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 made particular mention of the fact that we now have an industry representative, from ESRI.

He advised that he would seek consensus from discussions, with one vote per MS should a vote be required. 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 check, update and maintain their email correspondence address list.

ACTION 2: Secretary to produce draft report of CSPCWG6 by first week of January 2010, for participants to approve.

2. Approval of Agenda

Docs: CSPCWG6-02A rev.6 Agenda

The WG approved the agenda. Some additional items were proposed for discussion as time allowed:

- By NL: an exchange of experience with CARIS HPD. This was facilitated through a break-out session. No formal record was made of these discussions.
- By INT1 subWG members: a meeting to coordinate activities. Agenda item 11.1 also refers. This was facilitated through a break-out session. No formal record was made of these discussions.
- By SE: a request to discuss a paper on Generic Symbol for Lights in Multi-coloured charts (taken at Agenda item 15 and subsequently numbered as CSPCWG6-INF3).

3. Status of Actions from CSPCWG5

Docs: CSPCWG6-03A Status of actions from CPSCWG5

Very good progress had been made with the 37 actions from CSPCWG5 (November 2008). The Secretary explained the status of the actions which were not yet marked as 'completed':

CSPCWG5 Action 4 (AU to review TSMADWG progress with the issue of Fouls and keep CSPCWG informed): This is reported under agenda item 8.2. The action was closed.

CSPCWG5 Action 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)): No reports of substantive actions had been received. Rob Heeley (US-NOAA) reported that US-NGA had planned to include this in US Chart 1, 11th edition. This would not now happen, but may be included in a future edition. UK also recognises the user need and is considering the way forward. The action was closed.

CSPCWG5 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). This is now considered to be 'business as usual' and the action was closed. Jeff Wootton (AU) commented that pictures will also be included in S-101 and it would be useful to include the same pictures in both documents. Jeff offered to coordinate this. See CSPCWG6 Action 3 below.

CSPCWG5 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). The INT1 subWG have started work on this action, reported at agenda item 11.1. This CSPCWG5 action was closed.

CSPCWG5 Action 24 (IHB to progress the reformat of S-11 Part B). Michel Huet (IHB) reported that this action has now been completed in Ed 2.003, September 2009.

CSPCWG5 Action 27 (INT1 subWG to consider: 1) how to highlight the INT abbreviations within section V. and 2) whether to rearrange section letters consequent on deletion of G, O and W.) The outcome is reported at agenda item 11.1. The action was closed.

CSPCWG5 Actions 28 & 29 (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); & INT1 subWG to consider inputs regarding the term 'recommended' from WG members and consider further for the next round of INT1 new editions). No advice received, time expired. The meeting decided to not pursue this issue further. Actions closed.

CSPCWG5 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.) The outcome is reported at agenda item 11.1. The action was closed.

CSPCWG5 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.) This is now considered to be 'business as usual' (agenda item 12 refers) and the action was closed.

CSPCWG5 Action 36 and 37. these actions relate to preparation for the present meeting and are therefore time-expired.

All CSPCWG5 actions were therefore closed. One new action created:

ACTION 3: AU to coordinate the use of pictures in S-4 and S-101.

4. Relationship with HSSC

4.1. Report from HSSC1.

*Docs: CSPCWG6-04.1A
CSPCWG6-04.1B*

*CSPCWG report to HSSC1
Report from HSSC1 – notes from CSPCWG Chairman*

The Chairman briefed the meeting on the HSSC1 conference (October 2009). The following were of particular relevance to CSPCWG:

- The Terms of Reference for International Charting Coordination Working Groups (formerly Regional Charting Groups) will be included in S-11 Part A. This work is in preparation as an HSSC1 action.
- A further action outstanding from CHRIS20 is to 'Develop Guidelines for preparation and maintenance of small/medium scale ENC schemes'. The Chairman would be grateful to receive any national guidance on preparing ENC schemes to assist with this task.

- The EUWG report was presented to HSSC1. This is linked with S-4 new section B-600, so it is necessary for CSPCWG to progress publication of B-600 as soon as possible.
- The Chairman has been approached by ESRI with a request to join CSPCWG.
- The CSPCWG Work Plan has been approved by HSSC1.
- HSSC1 decided that WGs should avoid meeting in the 9 weeks prior to an HSSC meeting. Generic guidance on this will be included in all HSSC WGs' Terms of Reference by IHB.

Captain Ward attended this part of CSPCWG6 and requested that all WG members should check that their organizations had responded to CL70/09, regarding endorsement of S-100. 38 positive votes had been received; a further 2 at least are required. (Post meeting note: sufficient positive votes have been received.)

ACTION 4: All WG members to provide any national documents on ENC scheming good practice to the Chairman by end February 2010.

ACTION 5: All WG members to check whether their organization has voted on the adoption of S-100 (and if not, encourage them to do so). CL 70/09 refers.

4.2. Report from DIPWG

Docs: CSPCWG6-04.2A Report to CSPCWG6 on DIPWG activities

Jeff Wootton (AU) briefed the meeting on the activities of the DIPWG, as detailed in the report paper. He stated that, contrary to the information provided in the report, the New Edition of S-52 was not submitted at HSSC1, but the DIPWG Chair reported that the application of corrections, which were mostly editorial in nature, is in progress.

DIPWG had expressed concern that there is insufficient coordination and communication between DIPWG and CSPCWG, despite the regular inclusion of the DIPWG Chairman on CSPCWG correspondence. A possible solution may be for all CSPCWG members who have colleagues in DIPWG to communicate CSPCWG developments to them as soon as possible within their own organisations.

The Chairman emphasised that activities of the various HSSC WGs are overlapping and there is a need to ensure good communication. He agreed that the Secretary and Chairman will indicate more clearly which communications may affect DIPWG.

ACTION 6: All WG members to communicate developments in paper chart symbology to their own DIPWG members, as soon as possible, keeping them informed of discussions and providing papers as appropriate.

4.3. Report from TSMADWG

Docs: CSPCWG6-04.3A Report to CSPCWG6 on TSMADWG activities

Jeff Wootton (AU) briefed the meeting on the activities of the TSMADWG, highlighting those which were of relevance to CSPCWG, as detailed in the report paper. He also added the following information from TSMAD19 (26-30 October 2009), which had met after the report was submitted:

Additional information from TSMAD19: AU presented a paper describing the revised specification for depiction of mangroves on paper charts. This paper suggested a change in the mandatory requirement in the Use of the Object Catalogue for ENC for all mangrove areas to be encoded on land area, as per the previous specification for paper charts. This would bring ENC encoding guidelines for mangrove areas in line with the S-4 specifications. This recommendation was not approved, due to S-57 being frozen, therefore the Action from TSMAD19 is to promulgate an ENC FAQ stating that despite the revised specification for paper charts, all mangrove areas for ENC must continue to be encoded on land area.

The Secretary stated that the revised CATZOC table will be included in S-4 Edition 3.007, currently in preparation.

Copies of the UK chart showing the Internationally Recommended Transit Corridor (IRTC) in the Gulf of Aden were on display (UK chart number Q6099). Details and references are included in a Temporary NM (currently UK NM4954(T)/2009) but there are no plans currently to include this directly on Standard Nautical Charts (UK and US).

There were no actions for CSPCWG arising from the reports.

4.4. Report from EUWG

Docs: CSPCWG6-04.4A Report to CSPCWG6 from EUWG

Olivier Parvillers (FR) briefed the meeting on the activities of the EUWG. He emphasised the connection with S-4 B-600 draft and encouraged the WG to finalise this soon. The draft guidelines for dealing with T&P NMs on ENC are being circulated to IHO MS (CL80/09 refers) with a view to including them as a new annex to S-65. He advised that the next task for EUWG would be to revise S-52 Appendix 1, which would also then be incorporated in S-65.

5. Terms of Reference (TOR)

Docs: CSPCWG6-05A CSPCWG TOR (with proposed changes)

Minor changes to the CSPCWG TOR were accepted, to bring up to date for changes to CSPCWG assigned document designations and changes within IHO management. Michel Huet (IHB) commented that in fact these had already been included in M-3. The Chairman advised that a statement would be added to all HSSC WG TOR dealing with the timing of meetings in relation to HSSC meetings. (Post meeting note: actioned by IHB; new sentence added at paragraph 3.b of TOR.)

ACTION 7: IHB to include editorial amendments to TOR on website.

6. CSPCWG procedures

Docs: CSPCWG6-06A CSPCWG Procedures (with proposed changes)

Minor changes to the CSPCWG procedures were accepted, to bring up to date for changes to CSPCWG document designations and changes within IHO management. The Chairman commented that early responders to CSPCWG letters may change their stance after reading later responses; he encouraged members to submit an amended response if appropriate.

In response to a question, the Chairman clarified the role of the UK members. Initial drafts and subsequent UK 'votes' on response forms represent the UKHO position. However, as officers of the WG, the Chairman and Secretary also have to balance the views of all members.

ACTION 8: IHB to replace the Procedures on the IHO website with the revised version.

7. CSPCWG work plan: Summary of progress

Docs: CSPCWG6-07A Updated Work Plan

The Secretary briefed the meeting on progress with items on the Work Plan (substantive discussion was deferred to Agenda Item 13). The Chairman commented that the milestone of completing the revision of S-4 Section B-400, with the issue of CL79/2009 and consequent publication of S-4 3.007 (which is currently under preparation at UKHO) was a cause for celebration. All actions reported as completed to HSSC1 should now be removed from the Work Plan (ie items A.4.4.1, D.9, D.13, E.7, G.1). 'INT1?' was added to the affected publications for item D.14. Olivier Parvillers (FR) requested that the contact person for item E.1 should be amended to O. Parvillers and a revised milestone for this item was also agreed.

ACTION 9: Secretary to amend work plan to:

- Remove completed items reported to HSSC1
- add 'INT1?' at D.14
- amend FR representative and milestone at E.1

8. Chart content:

8.1. Wrecks and other obstructions – use of danger circle (US)

This item was withdrawn.

8.2. Foul Ground/area (AU)

Docs: CSPCWG6-08.2A Fouls and Foul Ground

Jeff Wootton (AU) introduced the paper, drawing attention to the 'recommendations' which were intended to generate discussion. US supported the main thrust of the paper and its recommendations and emphasised the need to make the distinction between 'foul area' and 'foul ground' explicit to users and cartographers. Jeff advised that 'Foul Ground' would (probably) be a separate feature in S-101, separating from its current binding as a category of obstructions in S-57. The meeting generally considered that, although the conflicting use of 'foul' in English is unfortunate, it is now impractical to change this. In general, it is more a cartographer's problem than a chart user's. The meeting agreed that the chart user will take more notice of the danger line and associated shallow blue area to decide that an area is dangerous and therefore unsuitable for navigation, rather than any legend. Some clarifications in S-4, INT1 and S-32 are required, as detailed in actions below:

ACTION 10: Secretary to draft amendments to be considered for S-4 edition 3.008, including:

- Add '(ie Foul Areas)' after 'numerous dangers' in the 2nd sentence of B-420.1
- Amend title of B-422 to 'Wrecks, Obstruction and Foul Areas'
- Replace B-422.8 with a cross reference to B-420.1
- Transfer existing B-422.8 into sub-section B-449 (but retain a cross reference for distributed remains of wrecks at B-422.8).
- Identify any other references to fouls in S-4.

ACTION 11: INT1 producers to include a new item for 'Foul Area' at K32.

ACTION 12: Secretary to summarize discussion on 'foul' and draft amendment to S-32 definition for 'foul ground', in consultation with TSMAD (for S-101).

ACTION 13: AU to prepare paper for discussion of fouls in TSMAD and DIPWG for the May 2010 joint meeting.

8.3. AIS:

8.3.1. Aid to navigation symbols (AU)

<i>Docs: CSPCWG6-08.3A</i>	<i>Virtual AIS Aids to Navigation Symbolology for Paper Charts</i>
<i>IALA Guideline 1082</i>	<i>The Establishment of AIS as an Aid to Navigation</i>
<i>MSC 86/23/7</i>	<i>New Symbols for AIS AtoN (by Japan)</i>
<i>NHC/53/[8.2A]</i>	<i>AIS paper submitted to NHC by Sweden</i>

8.3.2. Danish trials experience (DK)

Docs: CSPCWG6-08.3B Danish trials of virtual AIS

These two items were taken together. Vice Admiral A Maratos (IHB President) and Captain R Ward (IHB Director) attended the meeting for this item.

Captain Ward explained that IALA will be meeting in January 2010 to discuss the issue of 'Virtual AIS' and its potential application for 'virtual AtoN', where the IHO would be represented by himself and Michel Huet. This meeting would decide what is actually required by the mariner rather than be driven by what is technologically possible. However, it seems probable that AIS 'virtual' aids to navigation would be used in the future in some situations. IHO should therefore have some proposals on how they should be symbolised. He noted the Japanese proposal (MSC 86/23/7) and that the issue will be included in the agenda for IMO NAV56 (mid-2010). He therefore requested the CSPCWG to prepare some more appropriate symbols.

Nina Graasbøl-Schmidt (DK) briefed the meeting on the trials in Danish waters, which had been largely unsuccessful. There had been very little feedback from mariners.

The meeting reviewed the submissions from Japan, Sweden and Australia and came to the following conclusions for symbolization on paper charts:

- The position of the virtual AtoN should be identified by a small magenta position dot and surrounding diamond (the diamond shape connects to the existing AIS transmission symbol).
- The generic 3mm diameter magenta 'radio circle' should be added, as with all AtoN utilising radio transmissions.
- The standard IALA topmarks should be used, attached directly to the top of the position diamond, as representing the purpose of the AtoN in an easily recognisable way. The size of the topmark should be as on buoys, but the colour should be magenta, in recognition of the non-physical nature of the virtual AtoN. (Exceptionally, the special 'X' topmark should be separated from the diamond by a short stem).
- A colour abbreviation should not be included (as a virtual colour is not a real concept).
- A short magenta identifying legend 'V-AIS' should be added adjacent to the radio circle.
- All text should be upright, as this is not a floating AtoN and therefore not subject to drifting.

The Secretary has prepared the following examples:



There are still issues of how this should be portrayed in INT1 (eg by a few examples or a complete series), which may need to be inserted by NM. Also whether a special symbol would be needed if V-AIS AtoN are used as way points (effectively 'fairway buoys') or whether the safe water topmark would be appropriate. These should be resolved easily if/when IALA and IMO decide to proceed with such systems. The Secretary was tasked to draft a specification in anticipation. Captain Ward suggested that WG members should consider attending the IALA workshop in January or, alternatively, brief their national representatives.

There was no significant discussion about synthetic AIS AtoN. It is expected that the current symbols for real AIS AtoN will be used, although time may prove that some differentiation between 'monitored' and 'predicted' synthetic AtoN may be required.

ACTION 14: Secretary & Vice Chair to draft a specification for S-4 for virtual AIS AtoN, ready for when approved versions are established.

ACTION 15: All WG members to advise national representatives to IALA workshop on V-AIS (Paris late January 2010).

ACTION 16: M Huet to provide CSPCWG with a report from the IALA workshop on V-AIS

ACTION 17: Vice Chair to advise DIPWG and TSMAD of the need to discuss V-AIS further at their next meeting.

8.4. Chart graticule degree figures (UK)

Docs: CSPCWG6-08.4A Chart graticule degree figures

The following additional wording for S-4 B-212.6 was agreed:

'The above is the recommended minimum requirement for degree figures in the chart border. Additional degree figures, eg at each meridian and parallel, may be added to reduce the risk of plotting errors.'

However, there is no need to increase the number of figures in Source Diagrams or at supplementary internal graduation.

ACTION 18: Secretary to add wording to S-4 regarding graticule degree figures as an editorial update at the next opportunity.

8.5. Supplementary graduation (UK)

Docs: CSPCWG6-08.5A Supplementary Internal Graduation

The meeting decided that the current guidance for supplementary graduation is adequate. No action required.

8.6. Small craft (leisure) symbols (UK)

Docs: CSPCWG6-08.6A Small Craft (Leisure) Symbols

The meeting decided that the following 'leisure' symbols should be transferred to INT1 section F: U1.1 (Boat Harbour, Marina); U1.2 (Yacht berths without facilities); U2 (Visitors' berth); U3 (Visitors' mooring; U4 (Yacht club, Sailing Club). The symbols for Caravan and Camping sites should be included as black symbols in INT1 section E (as these may be useful as landmarks; the user would expect there to be seasonal variations and this need not be shown on the charts). All other entries in existing Section U should not be included as INT symbols; the retention of Section U and any symbols are a national option. It was also considered that the 'Mariner facilities box' at U32 is redundant as difficult to maintain and up to date information is generally readily available to the user via internet websites. This finishes the review of small craft symbols at Work Plan item E.5.

ACTION 19: Secretary to draft amendment to S-4 for 'leisure' symbols.

ACTION 20: INT1 subWG to decide the appropriate location and colour of retained 'leisure' symbols in INT1.

8.7. Chart Accuracy notes (UK)

Docs: CSPCWG6-08.7A Chart Accuracy notes

The proposed changes to the chart accuracy note were agreed, as easier for the user to understand. However, the meeting did not consider a 2mm tolerance is acceptable for claiming a chart or ENC is referred to WGS84. UK was invited to reconsider its position.

ACTION 21: Secretary to draft amendment to S-4 to include revised 'chart accuracy' note.

8.8. Depiction of sectors at oscillating lights (UK and CA)

Docs: CSPCWG6-08.8A Sectors for oscillating lights

The meeting watched an on-line presentation of oscillating lights. J Wootton also briefed the meeting on how such lights are encoded in S-57.

The meeting decided that a new abbreviation, eg 'Osc', for oscillating lights is not necessary; it is more important to state that the light is a directional light. In many cases, a bearing line with legend, eg 'DirWRG 090°' against the line and no legend at the light star would suffice and avoid chart clutter.

More details may be given in Lists of Lights, other associated publications, or a chart note if required. A suitable statement for the Alternating sectors might be: 'R (or G) phase increases away from white sector'. For the outer sectors of a 7 sector light, a suitable statement might be: 'R (or G) phase decreases away from F.R (or F.G) sector'.

If it is considered appropriate to chart the sectors they should be labelled as:

Oc.R / F.R / Al.WR / F.W \ Al.WG \ F.G \ Oc.G

for a typical 7 sector oscillating light, with the legend DirWRG at the light star.

The abbreviation 'Al.' should only be used at multicoloured lights. In the example from the Canadian chart of the white only light, the outer sectors should be labelled 'Oc' (although they cover a range between Oc and Fl, as the bearing from the fixed sector increases).

ACTION 22: Secretary to draft new specification in S-4 for oscillating Dir lights.

8.9. Floating Wind turbines (NO)

Docs: CSPCWG6-08.9A Floating wind turbines

The meeting agreed that the standard wind turbine symbol, L5.1, and all associated legends should be sloping for floating turbines. To keep the symbol clear, the blades would also need to be tilted by the same amount, so that the right-hand blade would tilt down by 15° from the horizontal. A similar symbol would be required within the circle for a wind farm (L5.2) comprised only of floating turbines.

ACTION 23: Secretary to draft new specification (including sloping symbol) in S-4 for floating wind turbines.

8.10. Above water wellheads (US)

Rob Heeley (US-NOAA) suggested that the title of S-4 B-445.1b should be amended to 'Submerged wellheads', to distinguish them from the 'Above-water wellheads' at B-445.1g. This was agreed, as an editorial clarification to S-4.

ACTION 24: Secretary to make editorial amendment to S-4 B-445.1b: 'Submerged wellheads' at the next opportunity.

8.11. Artificial Islands (CA)

This item was withdrawn.

8.12. Dredged areas (project depth) (UK)

Docs: CSPCWG6-08.12A Dredged area – project depths

The meeting agreed that a consistent policy is required for charting port development areas, including areas planned for dredging. Concern was expressed that charting such areas means omitting existing depth data, which may be very much shoaler than the planned dredging depths. Exceptionally, it may be appropriate to chart such areas when it is known that the dredging is already being done, will be done very shortly or is inaccessible to vessels before dredging. In such cases, it may be appropriate to temporarily publish two versions of the chart – ie pre and post dredge depictions (in accordance with the guidance in draft new section S-4 B-621).

If it is necessary to chart areas which are being dredged, then the legend 'being dredged' is preferable to 'project depth', for two reasons:

- It is easy to remove the single word 'being' by NM when it is known the dredging has been completed

- 'Project depth' has a well-established meaning in US, not associated with port developments.

An associated explanatory note, similar to the example in the paper, was considered most useful.

ACTION 25: Secretary to draft specifications for depicting 'projected' dredged areas for S-4.

8.13. Interval of symbols in area limits (UK)

Docs: CSPCWG6-08.13A Intervals between symbols in area limits

The meeting agreed that generic advice on the intervals between symbols in area limits should be given in S-4 Section B-100. This should include 'at intervals of approximately 40mm or closer and not exceeding 50mm'. Where necessary, the specifications should be amended to be consistent with this generic advice, as an editorial correction at the next opportunity (probably S-4 Edition 3.008).

ACTION 26: Secretary to include guidance in B-100 and amend actual cases regarding intervals between symbols in area limits and include in S-4 Ed 3.008.

8.14. Size of symbols (UK)

Docs: CSPCWG6-08.14A Size of chart symbols

The meeting agreed that cartographers should not be at liberty to rescale symbol sizes (although this is easy to do with some software tools in common use). Usually, it was considered better to generalise detail appropriate to the chart scale, such that the standard size symbol can be accommodated. However, it is acceptable for a national HO to make available two or more standard sizes of symbols from which the cartographer may select the one appropriate to circumstances. This should be in exceptional circumstances and never so small to make it difficult to discern (noting the subdued lighting often required on the bridges of vessels). Sounding point sizes should not be varied.

ACTION 27: Secretary to draft new guidance for S-4 on symbol sizes.

8.15. Floating Waste Bin (FR)

Docs: CSPCWG6-08.15A Floating waste bin

The meeting agreed that a new symbol for a floating waste bin is not required. Cartographers should choose the most appropriate existing symbol, depending on the type of bin, eg a buoy (with colour) or a pontoon (where a waste skip is placed on a pontoon). The legend 'waste' or equivalent may be inserted adjacent. It may also have a light, to be charted in the usual way.

ACTION 28: Secretary to draft new specification in S-4 for floating waste bins. Draft to be discussed with FR before sending to full WG.

8.16. Fish Aggregating Devices (FAD) (AU)

Docs: CSPCWG6-08.16A Depiction of Fish Aggregating Devices (FAD) on Paper Charts

The meeting agreed that the abbreviation FAD should be accepted as an INT abbreviation.

ACTION 29: Secretary to add 'FAD' to list of INT abbreviations in S-4.

ACTION 30: INT1 producers to include FAD in list of abbreviations, in bold.

8.17. "Suspended" Oceanographic Instrumentation Moorings (AU)

Docs: CSPCWG6-08.17A "Suspended" Oceanographic Instrumentation Moorings

The meeting agreed that 'sub-surface' should be the term used, rather than 'suspended' which is ambiguous, otherwise the AU proposal for showing these instruments was accepted. It was noted that the abbreviation ODAS need not be confined to oceans, nor only used adjacent to a superbuoy symbol, as shown in INT1 at Q58. Although this is explicit for cartographers in S-4 B-462.9, it would be helpful to clarify this by including an example of ODAS with a non-superbuoy in INT1 at Q58. Jeff Wootton (AU) agreed to draft a specification and recommend a location in S-4.

ACTION 31: AU (in liaison with Secretary) to draft specification for sub-surface obstructions (ODAS). Also to consider position in S-4 and adding another example of ODAS buoy to INT1.

ACTION 32: INT1 producers to add another example of ODAS buoy to Q58, of non-superbuoy size.

9. S-4

9.1. B-600 progress (Chair)

Docs: CSPCWG6-09.1A Progress with B-600 – New Maintenance Section for S-4

The Chairman explained the way in which comments from CSPCWG Letter 09/09 had been incorporated into the latest draft of B-600. There were no further changes suggested and in view of the work of the EUWG (see 4.4), there is a need to progress the new section for MS' approval as soon as possible.

ACTION 33: Secretary to tidy up new section S-4 B-600, draft CL and pass to IHB for promulgation.

9.2. Maintenance regime: comparison paper charts with ENC (UK)

Docs: CSPCWG6-09.2A Maintenance regime: comparison of paper charts with ENC

This item was taken with 9.4.

9.3. Representation of swathe surveys on Source Diagrams (UK)

Docs: CSPCWG6-09.3A Representation of swathe surveys on source diagrams

The meeting recognised that the existing guidance for providing information about swathe surveys on source diagrams could be improved. It concluded that S-4 B-294.3 should be amended to read: '...Lidar technologies, scale has little relevance; a statement of whether full sea floor coverage has been achieved or not achieved should be given instead'.

ACTION 34: Secretary to amend S-4 B-294.3 by deleting phrase about 'sounding density' and adding 'or not achieved' as an editorial correction at the next opportunity.

9.4. Improved Data Exchange for Paper Chart Production through ENCs (SE)

*Docs: CSPCWG6-09.4A Information Paper on the Nordic Agreement to improve Data Exchange for Paper Chart Production through ENCs
IDEWG report*

Magnus Wallhagen (SE) explained the new system of data exchange for paper charts about to be trialled (starting January 2010) in parts of the Baltic Sea area, using ENCs to populate sea areas on paper charts covering waters of neighbouring countries. A successful outcome may result in some changes being required to the new S-4 section B-600; however, it was agreed that publication of B-600 should not be delayed pending the outcome. Magnus agreed to keep CSPCWG informed of outcomes and were invited to give a similar presentation to the next meeting of TSMADWG.

Magnus Wallhagen also explained that the lack of cartographic attributes in S-57 was a problem and hoped these could be overcome in the future S-101 standard (ENC product specification). Jeff Wootton (AU) explained that it could be done in S-57, provided a product specification is agreed. Similarly, while TSMAD are considering introducing cartographic attributes in S-101, these will be designed to improve display; a separate exchange standard would be required.

ACTION 35: SE to keep CSPCWG informed of outcomes from using ENC data from other nations to update charts.

ACTION 36: SE to give presentation on data exchange through ENCs to TSMAD.

9.5. Progress on new specifications currently under consideration (Chair)

Docs: CSPCWG6-09.5A Consolidated responses of WG members to Letter 11/2009 on new specifications

The paper containing the consolidated responses to CSPCWG letter 11/2009 was discussed:

Pipeline tunnel. The draft specification had been approved by respondents to CSPCWG Letter 7/09. The length of the tunnel symbol was not discussed, so the Chairman has decided it should be 3mm.

Bridges. All respondents to CSPCWG Letter 11/09 agreed that the US-NOAA portrayal should not be used. The meeting decided that both the JP and LV examples should be included in the specifications.

Wave energy devices. The draft specification had been approved by respondents to CSPCWG Letter 7/09.

Unsurveyed areas. The meeting agreed to retain all three options (black, magenta and blue bands). An example of the blue bands option should be included in the next editions of INT1.

Disused/abandoned platforms. The draft specification had been approved by respondents to CSPCWG Letter 7/09.

Shellfish beds. The draft specification had been approved by respondents to CSPCWG Letter 7/09.

FFI. The retention of FFI had been approved by respondents to CSPCWG letter 11/09. The meeting agreed that IHB should consult IALA on whether Flso and FQ should also be accepted as INT light descriptions, before including in S-4, S-12 and INT1.

ACTION 37: Secretary to tidy up the draft new specifications for bridges, etc, draft CL and pass to IHB for promulgation.

ACTION 38: IHB to consult IALA regarding inclusion of Flso and FQ lights. Also to review any changes required to S-12 (in consultation with Steve Shipman IHB PA (Hydrography)).

10. Other CSPCWG publications

10.1. S-11

The Chairman reminded the meeting of the HSSC1 action to incorporate the amended draft TOR and ROP for ICCWG (formerly RCG) as an annex to S-11 Part A.

Michel Huet (IHB) advised that the rearrangement of S-11 Part B into a single document landscape format has been completed and is now available on the IHB website (as Ed 2.003, September 2009). The IHB will maintain Part B from information received from ICCWG (RCG) Coordinators. He requested WG Members who have ICCWG (RCG) Coordinator colleagues to encourage them to maintain their regional catalogues and correspond with IHB accordingly.

[Post-meeting note: IHO CL86/2009 refers.]

ACTION 39: Chairman to provide advice to IHB on including ICCWG (RCG) TOR/ROP in S-11 Part A (by 11/12/2009)

10.2. S-49 revision report (DE)

<i>Docs: CSPCWG6-10.2A</i>	<i>S-49 Edition 2: Standardization of Mariners' Routeing Guides - Progress Report</i>
<i>CSPCWG6-10.2B</i>	<i>S-49 Release candidate</i>

The meeting reviewed specific outstanding questions on S-49 (release candidate):

- Paragraph 2.3: it was agreed that the guidance in S-49 could be used for producing MRGs for non-IMO routeing systems, using the same principles that applied when reviewing S-4 Part B section B-430. The paragraph would need amending accordingly.
- Paragraph 2.5: some further work is required to make this paragraph easily understood but cover all situations. In general, it was agreed that MRGs should be in English language, but may also be produced in a national language or be multilingual (space permitting). While producer's INT versions should always be in English, it is possible for an adopted INT MRG to be published in a national language (as for example FR does for La Manche/English Channel).
- Two FR MRGs should be added to the table in Section 4.

ACTION 40: Chairman and Secretary to prepare the final draft revision of S-49 (in consultation with FR for final wording of paragraph 2.5) for submission to MS, including draft CL.

11. INT 1 / 2 / 3

11.1. Report of subWG on INT1 (Sec)

<i>Docs: CSPCWG6-11.1A</i>	<i>Report of INT1 subWG</i>
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The Secretary briefed the meeting on the activities of the INT1 subWG since CSPCWG5, particularly in relation to the actions placed on it:

- The subWG had not met, progressing actions entirely by correspondence. However, opportunity was taken during this CSPCWG6 to convene an ad hoc meeting of the subWG.
- CSPCWG5 Action 2: The INT1 producers have noted the amendment for K31 for next editions of INT1.
- CSPCWG5 Action 19: The INT1 producers have prepared a spreadsheet of possibly significant differences between the 3 INT1 versions and S-4 for further consideration.
- CSPCWG5 Action 27: The INT1 producers have agreed to highlight INT abbreviations in **bold** in a new list of abbreviations in the next editions of INT1. They also agree not to re-designate other section letters consequent on the deletion of sections G, O and W. (G and O will be listed on the contents page as 'Not currently used').

- CSPCWG5 Actions 28 and 29: As there were no comments received on the use of the term 'recommended' from other WG Members, the INT1 subWG agreed to close this matter.
- CSPCWG5 Action 30: The INT1 subWG members are assembling a list of useful terms to include in a future glossary. They have not yet determined whether such lists should be exactly consistent across all official versions of INT1, nor whether the list should be 'reversed' (ie reading English to National Language as well as vice versa).
- The INT1 subWG has agreed that two indexes should replace the current sections G, O, V, W and X, (without letters) as follows:
 - Index of abbreviations (National and International)
 - General Index/Translation of terms.

The Secretary advised that the INT1 subWG would continue to refine the lists of significant differences and lists of terms by correspondence, with a view to meeting in mid-2010 to finalise and also commence preparation of new editions of INT1 for near simultaneous publication early in 2011.

The meeting delegated to the INT1 subWG the decision on whether the lists of terms should be identical in the three official INT1s and whether there should be a 'reversed' list. It agreed that a full list of terms (in English) should be included in a suitable place in S-4, from which national HO's could select terms for their own versions of INT1 as appropriate.

The Chairman approved the continuing existence of the INT1 subWG (and the TOR) and commended the participants for their work to date.

ACTION 41: INT1 subWG to continue and complete its assessment of possible significant differences between symbols in the three official INT1s and S-4.

ACTION 42: INT1 subWG to prepare a complete list of useful terms for inclusion in S-4.

11.2. Use of INT1 numbers (UK)

Docs: CSPCWG6-11.2A Use of INT1 numbers, e.g. in databases

Ellie Cox (UK) explained that INT1 numbers had been used within the UK's chart database (CARIS HPD) and, therefore, any changes to the references could cause problems. During a CARIS HPD breakout session, it became apparent that other HPD users do not use the same naming convention. However, Jeff Wootton (AU) indicated that they used a similar convention within a different system and supported the proposal to avoid changing the INT1 numbering whenever possible, and especially not to reuse numbers for a different symbol or term. Noting the possibly large number of documents and databases which cross-refer to INT1, it was agreed that such renumbering should be avoided if possible.

ACTION 43: INT1 subWG to note not to reuse previously allocated INT1 numbers.

11.3. Location of Aquaculture symbols in INT1 (INT1subWG)

Docs: CSPCWG6-11.3A Location of Aquaculture Symbols in INT1

This item (Work Plan E.8) originated from a proposal by DK to move the 'aquaculture' symbols from INT1 section K to section L. The INT1 subWG had debated this issue extensively by correspondence, but not reached consensus. However, particularly in the light of the discussion at agenda item 11.2, the meeting decided that they should not be moved between sections or renumbered within the existing section. However, it was decided to rename the subsection beginning K40 as 'Obstructions and Aquaculture', but to make no other changes.

ACTION 44: INT1 producers to rename subsection beginning with K40 as 'Obstructions and Aquaculture' in next editions of INT1.

ACTION 45: Secretary to propose definition of aquaculture to HDWG.

12. Lessons learned from Marine Incidents

There were no items raised.

13. Review of Actions and Work Plan

13.1. Actions

The draft list of actions up to item 10.2 was reviewed by the meeting. A revised and complete list of Actions is at Annex D.

13.2. New items for Work Plan

The following new Work Plan items were identified, as needing new or revised specifications:

- o D.20 Virtual AIS AtoN.
- o D.21 Oscillating directional lights
- o D.22 Floating wind turbines
- o D.23 'Project' dredged depths
- o D.24 Floating waste bin
- o D.25 Sub-surface ODAS instruments

13.3. Priorities

The meeting agreed to raise the priority of A.5 to medium, A.8 to high. New item D.20 was allocated as high, the other new items to be medium.

13.4. Timescales for tasks

It was agreed that the Chairman and Secretary should review timescales out-of-meeting and include in the revised work plan accordingly. A revised Work Plan is included as Annex E.

14. Any Other Business

14.1. Reports from non-attendees

No reports had been submitted.

14.2. Items to bring to attention of HSSC

The Chairman stated that he will summarise activities of the WG in the report to HSSC2. He apologised for not circulating a draft report to WG members before submission to HSSC1; he would try to achieve this next year. If any more urgent matters need advising to HSSC, he would raise this directly with the HSSC Chairman.

14.3. INF papers:

<i>Docs:</i>	<i>CSPCWG6-INF1</i>	<i>CATZOC implementation by UKHO</i>
	<i>CSPCWG6-INF2</i>	<i>Flood lighting in high-speed routes</i>
	<i>CSPCWG6-INF3</i>	<i>Generic Symbol for Lights in Multi-coloured charts</i>

INF1: The Chairman advised the meeting that INF1 was simply an information paper; no action was required. No questions were raised.

INF2: Inger Tellefsen (NO) briefed the meeting on the implementation of flood lighting of aids to navigation in Norwegian high-speed routes, and the consequential chart action. There were no questions or actions arising.

INF3: Magnus Wallhagen (SE) reminded the meeting that, during the revision of S-4 Section B-480, the issue arose of how to include a flare on multi-coloured charts at lights or signal stations with more than one light colour. He now proposed two possible solutions: an outlined flare in either black or magenta. The meeting agreed that the magenta outline was the better solution and asked SE to continue its discussions, with a target to confirm the proposed symbol in time to include in the next editions of INT1 (scheduled for early 2011).

ACTION 46: SE to confirm the use of an outline magenta flare for multi-coloured lights and signal stations in time for inclusion in next editions INT1 (scheduled for early 2011).

15. Date, duration and venue of next meeting

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. Such meetings should avoid the period from 3 weeks before Christmas, and cannot be held during the 9 weeks before an HSSC meeting.

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

The participants agreed that the next meeting should be around November 2010.

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

The South African HO had offered to host the next meeting of the CSPCWG and this invitation was gratefully accepted. The proposed date is 23-25 November 2010, subject to confirmation by the hosts.

ACTION 47: Chairman to confirm date and venue for CSPCWG7 in consultation with ZA.

ACTION 48: All WG members to make early bids for travel budget; advise Chairman if any difficulties.

ACTION 49: All WG members to note agenda items for CSPCWG7 throughout the year (and forward to Secretary as they arise).

6th CSPCWG MEETING
IHB, Monaco, 1-3 December 2009
AGENDA

- 1. Welcome, Introductions and Administrative Arrangements**
Docs: CSPCWG6-01A List of documents
CSPCWG6-01B List of meeting participants and WG members
- 2. Approval of Agenda**
Docs: CSPCWG6-02A Agenda
- 3. Status of Actions from CSPCWG5**
Docs: CSPCWG6-03A Status of actions from CSPCWG5
- 4. Relationship with HSSC**
 - 4.1. Notes from HSSC 1 (Chair)**
 - 4.2. Report from DIPWG (Vice Chair)**
 - 4.3. Report from TSMAD (Vice Chair)**
 - 4.4. Report from EUWG (FR)**
Docs: CSPCWG6-04.1A CSPCWG report to HSSC1
CSPCWG6-04.1B Report from HSSC1 – notes from CSPCWG Chairman
CSPCWG6-04.2A Report to CSPCWG6 on DIPWG activities
CSPCWG6-04.3A Report to CSPCWG6 on TSMADWG activities
CSPCWG6-04.4A Report of the ENC Updating Working Group (EUWG)
See also HSSC 06-10A
- 5. Terms of Reference**
Docs: CSPCWG6-05A CSPCWG TOR (with proposed changes)
- 6. CSPCWG procedures**
Docs: CSPCWG6-06A CSPCWG Procedures (with proposed changes)
- 7. CSPCWG work plan**
 - 7.1. Summary of progress (Sec)**
Docs: CSPCWG6-07A Updated Work Plan
- 8. Chart content:**
 - 8.1. Wrecks and other obstructions – use of danger circle (US)**
 - 8.2. Foul Ground/area (AU)**
Docs: CSPCWG6-08.2A Fouls and Foul Ground
 - 8.3. AIS:**
 - 8.3.1. Aid to navigation symbols (AU)**
Docs: CSPCWG6-08.3A Virtual AIS Aids to Navigation Symbology for Paper Charts
IALA Guideline 1082 The Establishment of AIS as an Aid to Navigation
MSC 86/23/7 New Symbols for AIS AtoN (by Japan)
NHC/53/[8.2A] AIS paper submitted to NHC by Sweden
 - 8.3.2. Danish trials experience (DK)**
Docs: CSPCWG6-08.3B Danish trials of virtual AIS
 - 8.4. Chart graticule degree figures (UK)**
Docs: CSPCWG6-08.4A Chart graticule degree figures
 - 8.5. Supplementary graduation (UK)**
Docs: CSPCWG6-08.5A Supplementary Internal Graduation
 - 8.6. Small craft (leisure) symbols (UK)**
Docs: CSPCWG6-08.6A Small Craft (Leisure) Symbols
 - 8.7. Chart Accuracy notes (UK)**
Docs: CSPCWG6-08.7A Chart Accuracy notes
 - 8.8. Depiction of sectors at oscillating lights (UK and CA)**
Docs: CSPCWG6-08.8A Sectors for oscillating lights
 - 8.9. Floating Wind turbines (NO)**
Docs: CSPCWG6-08.9A Floating wind turbines
 - 8.10. Above water wellheads (US)**
 - 8.11. Artificial Islands (CA)**
 - 8.12. Dredged areas (project depth) (UK)**

Docs: CSPCWG6-08.12A Dredged area – project depths

8.13. Interval of symbols in area limits (UK)

Docs: CSPCWG6-08.13A Intervals between symbols in area limits

8.14. Size of symbols (UK)

Docs: CSPCWG6-08.14A Size of chart symbols

8.15. Floating Waste Bin (FR)

Docs: CSPCWG6-08.15A Floating waste bin

8.16. Fish Aggregating Devices (FAD) (AU)

Docs: CSPCWG6-08.16A Depiction of Fish Aggregating Devices (FAD) on Paper Charts

8.17. “Suspended” Oceanographic Instrumentation Moorings (AU)

Docs: CSPCWG6-08.17A “Suspended” Oceanographic Instrumentation Moorings

9. S-4

9.1. B-600 progress (Chair)

Docs: CSPCWG6-09.1A Progress with B-600 – New Maintenance Section for S-4
CSPCWG6-09.1B Draft B-600

9.2. Maintenance regime: comparison paper charts with ENC (UK)

Docs: CSPCWG6-09.2A Maintenance regime: comparison of paper charts with ENC

9.3. Representation of swathe surveys on Source Diagrams (UK)

Docs: CSPCWG6-09.3A Representation of swathe surveys on source diagrams

9.4. Improved Data Exchange for Paper Chart Production through ENCs (SE)

Docs: CSPCWG6-09.4A Information Paper on the Nordic Agreement to improve Data Exchange for Paper Chart Production through ENCs
Final Report IDEWG The Nordic Working Group for Improved Data Exchange through S-100 - Final Report

9.5. Progress on new specifications currently under consideration (Chair)

Docs: CSPCWG6-09.5A Consolidated responses of WG members to Letter 11/2009 on new specifications

10. Other CSPCWG publications

10.1. S-11 Part A

10.2. S-49 revision report (Chairman)

Docs: CSPCWG6-10.2A S-49 Edition 2: Standardization of Mariners’ Routeing Guides - Progress Report
CSPCWG6-10.2B S-49 Release candidate

11. INT 1 / 2 / 3

11.1. Report of subWG on INT1 (Sec)

Docs: CSPCWG6-11.1A Report of INT1 subWG

11.2. Use of INT1 numbers (UK)

Docs: CSPCWG6-11.2A Use of INT1 numbers, e.g. in databases

11.3. Location of Aquaculture symbols in INT1 (INT1subWG)

Docs: CSPCWG6-11.3A Location of Aquaculture Symbols in INT1

12. Lessons learned from Marine Incidents

13. Review of Actions and Work Plan

13.1. Actions

13.2. New items for Work Plan

13.3. Priorities

13.4. Timescales for tasks

14. Any Other Business

14.1. Reports from non-attendees

14.2. Items to bring to attention of HSSC

14.3. INF papers:

Docs: CSPCWG6-INF1 CATZOC implementation by UKHO
CSPCWG6-INF2 Flood lighting in high-speed routes
CSPCWG6-INF3 Generic Symbol for Lights in Multi-coloured charts

15. Date, duration and venue of next meeting

**6th CSPCWG MEETING
Monaco 1-3 December 2009**

LIST OF DOCUMENTS

CSPCWG6-01A rev.5	List of documents
CSPCWG6-01B rev.3	List of meeting participants and WG members
CSPCWG6-02A rev.6	Agenda
CSPCWG6-03A	Status of actions from CPSCWG5
CSPCWG6-04.1A	CSPCWG report to HSSC1
CSPCWG6-04.1B	Report from HSSC1 – notes from CSPCWG Chairman
CSPCWG6-04.2A	Report to CSPCWG6 on DIPWG activities
CSPCWG6-04.3A	Report to CSPCWG6 on TSMADWG activities
CSPCWG6-04.4A	Report of the ENC Updating Working Group (EUWG)
CSPCWG6-05A	CSPCWG Terms of Reference (with proposed changes)
CSPCWG6-06A	CSPCWG Procedures (with proposed changes)
CSPCWG6-07A rev.1	Updated work plan
CSPCWG6-08.2A	Fouls and Foul Ground
CSPCWG6-08.3A	Virtual AIS Aids to Navigation Symbolology for Paper Charts
IALA Guideline No 1082	The establishment of AIS as an Aid to Navigation
MSC 86/23/7	New symbols for AIS-AtoN (submitted by Japan)
NHC/53/8.2A	The establishment of AIS as an Aid to Navigation (submitted to NHC by Sweden)
CSPCWG6-08.3B	Danish trials of virtual AIS
CSPCWG6-08.4A	Chart graticule degree figures
CSPCWG6-08.5A	Supplementary Internal Graduation
CSPCWG6-08.6A	Small Craft (Leisure) Symbols
CSPCWG6-08.7A	Chart Accuracy notes
CSPCWG6-08.8A	Sectors for oscillating lights
CSPCWG6-08.9A	Floating wind turbines
CSPCWG6-08.12A	Dredged area – project depths
CSPCWG6-08.13A	Intervals between symbols in area limits
CSPCWG6-08.14A	Size of chart symbols
CSPCWG6-08.15A	Floating waste bin
CSPCWG6-08.16A	Depiction of Fish Aggregating Devices (FAD) on Paper Charts
CSPCWG6-08.17A	“Suspended” Oceanographic Instrumentation Moorings
CSPCWG6-09.1A rev.1	S-4 B-600 Progress
CSPCWG6-09.1B	New draft of B-600: Chart Maintenance
CSPCWG6-09.2A	Maintenance regime: comparison of paper charts with ENC
CSPCWG6-09.3A	Representation of swathe surveys on source diagrams
CSPCWG6-09.4A	Information Paper on the Nordic Agreement to improve Data Exchange for Paper Chart Production through ENCs
Final Report IDEWG	Nordic Working Group for Improved Data Exchange through S-100 - Final Report
CSPCWG6-09.5A	Consolidated responses of WG members to Letter 11/2009 on new specifications
CSPCWG6-10.2A	S-49 Edition 2: Standardization of Mariners’ Routeing Guides
S-49 Edition 2	Draft of S-49 ‘release candidate’
CSPCWG6-11.1A	Report of INT1 subWG
CSPCWG6-11.2A	Use of INT1 numbers, e.g. in databases
CSPCWG6-11.3A	Location of Aquaculture Symbols in INT1
CSPCWG6-INF1	CATZOC implementation by UKHO
CSPCWG6-INF2	Flood lighting in high-speed routes
CSPCWG6-INF3	Generic Symbol for Lights in Multi-coloured charts

6th CSPCWG MEETING
Monaco, 1-3 December 2009

LIST OF PARTICIPANTS

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* Guest

† For item 8.3 only

†† For items 1 to 4.1 and 8.3

6th CSPCWG MEETING
IHB, Monaco, 1-3 December 2009

ACTIONS

No	Action	Delegate	Status
1.	All WG members to check, update and maintain their email correspondence address list.	All WG	
2.	Secretary to produce draft report of CSPCWG 6 by end first week in January 2010, for participants to approve.	Sec	
3.	AU to coordinate the use of pictures in S-4 and S-101.	AU	
4.	All WG members to provide any national documents on ENC scheming good practice to Chairman by end February 2010.	All WG	
5.	All WG members to check whether their organization has voted on the adoption of S-100 (and if not, encourage them to do so). CL 70/09 refers.	All WG	
6.	All WG members to communicate developments in paper chart symbology to their own DIPWG members, as soon as possible, keeping them informed of discussions and providing papers as appropriate.	All WG	
7.	IHB to include editorial amendments to TOR on website.	IHB	Completed
8.	IHB to include editorial amendments to Procedures on website.	IHB	Completed
9.	Secretary to amend work plan as follows: <ul style="list-style-type: none"> • Remove items reported to HSSC1 as completed • D.14 – add ‘INT1?’ • E.1 – amend FR representative and milestone. 	Sec	Completed
10.	Secretary to draft amendments to be considered for S-4 edition 3.008, including: <ul style="list-style-type: none"> • Add ‘(ie Foul Areas)’ after ‘numerous dangers’ in the 2nd sentence of B-420.1 • Amend title of B-422 to ‘Wrecks, Obstruction and Foul Areas’ • Replace B-422.8 with a cross reference to B-420.1 • Transfer existing B-422.8 into sub-section B-449 (but retain a cross reference for distributed remains of wrecks at B-422.8). • Identify any other references to fouls in S-4. 	Sec	
11.	INT1 producers to include a new item for ‘Foul Area’ at K32	INT1 producers	
12.	Secretary to summarize discussion and draft amendment to S-32 definition for ‘foul ground’, in consultation with TSMAD (for S-101).	Sec	
13.	AU to prepare paper for discussion of fouls in TSMAD and DIPWG for the May 2010 joint meeting.	Vice Chair	
14.	Secretary & Vice Chair to draft a specification for S-4 virtual AIS AtoN, ready for when approved versions are established.	Sec & Vice Chair	
15.	All WG members to advise national representatives to IALA workshop in V-AIS (Paris late January 2010).	All WG Members	

No	Action	Delegate	Status
16.	M Huet to provide CSPCWG with a report from the IALA workshop on V-AIS.	M Huet	
17.	Vice Chair to advise DIPWG and TSMAD of the need to discuss V-AIS further at their next meeting.	Vice Chair	
18.	Secretary to add wording to S-4 regarding graticule degree figures as an editorial update at the next opportunity.	Sec	
19.	Secretary to draft amendment to S-4 for 'leisure' symbols.	Sec	
20.	INT1subWG to decide the appropriate location and colour of retained 'leisure' symbols in INT1.	INT1subWG	
21.	Secretary to draft amendment to S-4 to include revised 'chart accuracy' note.	Sec	
22.	Secretary to draft new specification in S-4 for oscillating Dir lights.	Sec	
23.	Secretary to draft new specification (including sloping symbol) in S-4 for floating wind turbines.	Sec	
24.	Secretary to make editorial amendment to S-4 B-445.1b: 'Submerged wellheads' at the next opportunity.	Sec	
25.	Secretary to draft specifications for depicting 'projected' dredged areas for S-4.	Sec	
26.	Secretary to include guidance in B-100 and amend actual cases regarding intervals between symbols in area limits and include in S-4 Ed 3.008.	Sec	
27.	Secretary to draft new guidance for S-4 on symbol sizes.	Sec	
28.	Secretary to draft new specification in S-4 for floating waste bins. Draft to be discussed with FR before sending to full WG.	Sec/FR	
29.	Secretary to add 'FAD' to list of INT abbreviations in S-4.	Sec	
30.	INT1 producers to include FAD in list of abbreviations, in bold.	INT1 producers	
31.	AU (in liaison with Sec) to draft specification for sub-surface obstructions (ODAS). Also to consider position in S-4.	AU, Sec, INT1 subWG	
32.	INT1 producers to add another example of ODAS buoy to Q58, of non-superbuoy size.	INT1 producers	
33.	Secretary to tidy up new section S-4 B-600, draft CL and pass to IHB for promulgation.	Sec/IHB	
34.	Secretary to amend S-4 B-294.3 by deleting phrase about 'sounding density' and adding 'or not achieved' as an editorial correction at the next opportunity.	Sec	
35.	SE to keep CSPCWG informed of outcomes from using ENC data from other nations to update charts.	SE	
36.	SE to give presentation on data exchange through ENCs to TSMAD.	SE	
37.	Secretary to tidy up the draft new specifications for pipeline tunnel, bridges, wave energy devices, unsurveyed areas, disused/abandoned platforms and shellfish beds. Draft CL and pass to IHB for promulgation.	Sec	
38.	IHB to consult IALA regarding inclusion of Flso and FQ lights. Also to review any changes required to S-12.	IHB	
39.	Chairman to provide advice to IHB on including ICCWG (RCG) TOR/ROP in S-11 Part A (by 11/12/2009).	Chair	

No	Action	Delegate	Status
40.	Chairman and Sec to prepare S-49 for submission to MS inc. draft CL (in consultation with FR for final wording of paragraph 2.5).	Chair, Sec, FR, IHB	
41.	INT1 subWG to continue and complete its assessment of possible significant differences between symbols in the three official INT1s and S-4.	INT1 subWG	
42.	INT1 subWG to prepare a complete list of useful terms for inclusion in S-4.	INT1 subWG	
43.	INT1 subWG to note not to reuse previously allocated INT1 numbers.	INT1 subWG	
44.	INT1 producers to rename subsection beginning with K40 as 'Obstructions and Aquaculture' in next editions of INT1.	INT1 producers	
45.	Secretary to propose definition of aquaculture to HDWG.	Sec	
46.	SE to confirm the use of an outline magenta flare for multi-coloured lights and signal stations in time for inclusion in next editions INT1 (scheduled for early 2011).	SE	
47.	Chairman to confirm date and venue for CSPCWG7 in consultation with ZA.	Chairman	
48.	All WG members to make early bids for travel budget; advise Chairman if any difficulties.	All WG Members	
49.	All WG members to note agenda items for CSPCWG7 throughout the year (and forward to Secretary as they arise).	All WG Members	

CSPCWG Work Plan

(updated following CSPCWG6)

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

CSPCWG Tasks

- A Revise, develop and maintain Publication S-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts' (IHO T3.3.1 refers)
- B Revise, develop and maintain Publication S-11 'Catalogue of INT Charts' Part A (IHO T3.3.1 refers)
- D Development of new (and revised) symbology
- E Maintenance of S-4 supplementary publications INT 1, 2 & 3 (IHO T3.3.1 refers)
- F Revise, develop and maintain S-49 'Recommendations concerning Mariners' Routeing Guides' (IHO T3.3.1 refers)
- G Publication M-15 'List of Booklets on Chart Symbols & Abbreviations' (IHO T3.1.3 refers) now discontinued
- 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 S-4 Part B Section 400	H	S-4 Ed 3.007	2005	2009	C	Sec CSPCWG	S-4 / B-400	B-400 divided into sub-sections for manageability.
A.4.4.2	Sub-section B-480 to B-499	H	S-4 Ed 3.007	2008	2009	C	Sec CSPCWG	S-4 / B-400	Approved by MS, CL79/2009 refers
A.5	Revise S-4 Part B Section 300	M	Completion of A.8			P	Sec CSPCWG	S-4 / B-300	Start after A.8 completed
A.6	Revise S-4 Part B Section 500	L	Completion of A.5			P	Sec CSPCWG	S-4 / B-500	Start after A.5
A.8	New specification for Chart Maintenance Section B-600	H	MS approval	2006	2010	O	Sec CSPCWG	S-4 / B-600	IHO CL to be issued in early 2010
B.2	Develop ToR / RoP for INT Chart Coordinators	H	S-11 Ed 2.003	2009	2010	O	Chair CSPCWG	S-11 Part A	Actions CHRIS 20/23 & HSSC1/24. Approval by MS; CL86/2009 refers
B.3	Develop guidelines for preparation & maintenance of small / medium scale ENC schemes.	M	CSPCWG6 Action 4	2009	2010	O	Chair CSPCWG	S-11 / S-65 ?	CHRIS Action 20/24
D.14	Bridges (especially supports)	H	IHO CL for MS	2008	2010	O	Sec CSPCWG	S-4, INT 1?	WG Ltr 11/09 refers
D.15	Pipeline tunnel entrance	M	IHO CL for MS	2008	2010	O	Sec CSPCWG	S-4, INT 1	WG Ltr 11/09 refers
D.16	Wave energy devices	M	IHO CL for MS	2008	2010	O	Sec CSPCWG	S-4, INT 1	WG Ltr 11/09 refers
D.17	Unsurveyed areas	M	IHO CL for MS	2008	2010	O	Sec CSPCWG	S-4, INT 1	WG Ltr 11/09 refers
D.18	Platform with superstructure removed	M	IHO CL for MS	2008	2010	O	Sec CSPCWG	S-4, INT 1	WG Ltr 11/09 refers
D.19	Shellfish beds	M	IHO CL for MS	2008	2010	O	Sec CSPCWG	S-4, INT 1	WG Ltr 11/09 refers
D.20	Virtual AIS	H	Draft for WG	2009	2010	P	VC & Sec CSPCWG	S-4, INT 1	CSPCWG6 Action 14
D.21	Oscillating directional lights	M	Draft for WG	2009	2010	P	Sec CSPCWG	S-4, INT1?	CSPCWG6 Action 22
D.22	Floating wind turbines	M	Draft for WG	2009	2010	P	Sec CSPCWG	S-4, INT 1	CSPCWG6 Action 23
D.23	'Project' dredged depths	M	Draft for WG	2009	2010	P	Sec CSPCWG	S-4	CSPCWG6 Action 25
D.24	Floating waste bin	M	Draft for WG	2009	2010	P	Sec CSPCWG	S-4	CSPCWG6 Action 28
D.25	Sub-surface obstructions (ODAS)	M	Draft for WG	2009	2010	P	VC & Sec CSPCWG	S-4	CSPCWG6 Action 31
E.1	Maintain official INT 1s	n/a	Next round of revisions (expected early 2011)			P	FR: O Parvillers ES: J Millan DE: S Spohn	INT 1	French version 2006 Spanish version 2007 English version 2008

E.4	Symbols for vacant entries in INT 1	L	Review when revision of S-4 completed			P	Sec CSPCWG	INT 1, S-4 part B	
E.5	Small craft symbols	L				O	Sec CSPCWG	INT 1, S-4 part B	CSPCWG6 Actions 19 & 20
E.8	Move part of INT1 K into L	L	Rejected			C	INT1 subWG	INT1	Discussed at CSPCWG6: item 11.8
F.1	Review S-49	M	MS approval	2008	2010	O	DE (J Schröder-Fürstenberg)	S-49	Prepare release candidate for 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
1-3 Dec 09	IHB, Monaco	CSPCWG 6
23-25 Nov 10 tbc	Cape Town, S Africa	CSPCWG 7

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6th CSPCWG MEETING
Monaco, 1-3 December 2009

LIST OF ACRONYMS AND ABBREVIATIONS USED AT CSPCWG6

(Light descriptions not included.)

AIS	Automatic Identification System
AtoN	Aid to Navigation
AU	Australia
BR	Brazil
CA	Canada
CARIS	A commercial company (Computer Aided Resource Information System)
CARIS-HPD	CARIS - Hydrographic Production Database
CATZOC	Category of Zone of Confidence
CHRIS	Former Committee on Hydrographic Requirements for Information Systems (of IHO)
CL	Circular Letter (of IHO)
CSPCWG	Chart Standardization and Paper Chart WG (of HSSC)
DE	Germany
DIPWG	Digital Information Portrayal Working Group (of HSSC)
DK	Denmark
doc	CSPCWG6 document or paper associated with the meeting
Ed	Edition
ENC	Electronic Navigational Chart
ES	Spain
ESRI	A commercial company (Environmental Systems Research Institute)
EUWG	ENC Updating WG (of HSSC)
FAD	Fish Aggregating Device
FI	Finland
FR	France
HO	Hydrographic Office
HSSC	Hydrographic Standards and Services Committee (of IHO)
IALA	International Association of Marine Aids to Navigation and Lighthouse Authorities
ICCWG	(Regional) International Charting Coordination Working Group (of RHC)
IDEWG	The Nordic Working Group for developing Improved Data Exchange through S-100
IHB	International Hydrographic Bureau
IHO	International Hydrographic Organization
IMO	International Maritime Organization
INF	Information paper
INT	International
INT1	Symbols, Abbreviations, Terms used on Charts
KR	Republic of Korea
LV	Latvia
M-3	Resolutions of the IHO
M-4 (now S-4)	Chart Specifications of the IHO
M-11 (now S-11)	Part A: Guidance for the preparation and maintenance of INT chart schemes Part B: Catalogue of INT charts
M-15	List of Booklets of Chart Symbols and Abbreviations Published by Various Maritime Countries
MRG	Mariner's Routeing Guide
MS	Member State (of IHO)
MSC	Maritime Safety Committee (of IMO)
NGA	National Geospatial-Intelligence Agency (USA)
NHC	Nordic Hydrographic Commission
NL	Netherlands
NM	Notice to Mariners
NO	Norway
NOAA	National Oceanic and Atmospheric Administration (USA)

ODAS	Ocean Data Acquisition System
pdf	Portable Document Format
RCG	Regional Charting Group (of RHC)
RHC	Regional Hydrographic Commission
ROP	Rules of Procedure
S-4	Chart Specifications of the IHO
S-11	Part A: Guidance for the preparation and maintenance of INT chart schemes Part B: Catalogue of INT charts
S-12	Standardization of List of Lights and Fog Signals
S-32	Hydrographic Dictionary
S-49	Guidance for Mariners' Routeing Guides
S-52	Specifications for Chart Content and Display Aspects of ECDIS
S-57	IHO Transfer Standard for Digital Hydrographic Data
S-65	ENC Production Guidance
S-100	IHO Universal Hydrographic Data Model
S-101	(Proposed) IHO Electronic Navigational Chart Product Specification
SE	Sweden
Sec	Secretary (of CSPCWG)
subWG	Subordinate Working Group (of CSPCWG)
T&P NM	Temporary & Preliminary Notices to Mariners
TOR	Terms of Reference
TR	Technical Resolution (of the IHO) – see M-3
TSMADWG	Transfer Standard Maintenance and Application Development Working Group (of HSSC)
UK	United Kingdom of Great Britain and Northern Ireland
US	United States of America
V-AIS	Virtual AIS (when used as a virtual aid to navigation)
WG	Working Group (of IHO)