

4th CSPCWG MEETING
Monaco, 13-15 November 2007

Notes:

The paragraph numbering is the same as in the agenda (see ANNEX A). The record is set out in agenda order.

The meeting documents (explanatory notes – see 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.shom.fr/COMMITTEES/CHRIS/CSPCWG/CSPCWG4/CSPCWG4docs.htm>).

1. Welcome, Introductions and Administrative Arrangements

Docs: CSPCWG 4-01A rev4 List of Documents (Secretary)
CSPCWG 4-01B rev5 List of meeting participants and WG members (Secretary)

Captain Robert Ward, Director IHB, welcomed the members of the CSPCWG on behalf of the IHB. He congratulated the WG on the volume, quality and thoroughness of work progressed, commenting that it underpinned much of the activities of other CHRIS groups, especially CSMWG and TSMAD (eg for the Product Specification component being developed as part of S-100). He said that there is likely to be a need to bring closer together the work of the paper and electronic chart presentation groups, looking to the future while preserving efficiency.

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, 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 4 by end December 2007, for participants to approve.

2. Approval of Agenda

Docs: CSPCWG 4-02A rev3 Agenda (Secretary)

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

- 5.1C - a new paper containing the Chairman's draft notes from CHRIS19.
- A late paper, INF2 on redundant colour abbreviations had been submitted by Denmark. The Chairman decided this should be discussed at agenda item 10.6.
- A letter from IHB on changes consequent on revision of Tidal Technical Resolutions, taken at item 10.7.

3. Election of Officers

Docs: CSPCWG 4-03A Election of officers (Secretary)

The present Chairman, Peter Jones (UK), was returned unopposed.

The present Vice-Chairman, Jarmo Makkinen (FI), did not seek re-election. Chris Roberts (AU) was elected unopposed as new Vice-Chairman. As he expects to retire during 2008, a further election will then be necessary.

The present Secretary, Andrew Heath-Coleman (UK), was re-appointed.

4. Status of Actions from CSPCWG 3

Docs: CSPCWG 4-04A rev1 Status of actions from CSPCWG 3 (Secretary)

Very good progress had been made with the 42 actions from CSPCWG 3 (November 2006). The following remained outstanding, and were reviewed:

CSPCWG 3 Action 13 (Research charting of mangroves): Covered at Agenda item 9.1.

CSPCWG 3 Action 24 (Revise draft for 'coloured lights'): This has been included in the revision of B-450 to B-470, currently being reviewed by WG (CSPCWG Letter 12/07). Action therefore closed.

CSPCWG 3 Action 26 (Examine M-11 on website and feedback any comments to M Huet): IHB had not received any comments on M-11, so it was assumed that this meant the document presentation is acceptable.

CSPCWG 3 Action 29 (Draft wording for M-4 and P-4 on the status of INT 1/2/3): The Chairman drew attention to CSPCWG 4-04B, submitted by the Secretary in completion of Action 29. The meeting agreed that the proposed minor changes to M-4 should be included as editorial corrections in the next edition of M-4, with the addition that the word 'Chart' in front of INT1 should be deleted from B-151.1. It also agreed the proposed changes to P-4, again deleting the word 'Chart' in front of INT1, INT2 and INT3, and also removing the reference to a loose-leaf version of M-4. Following a question by ID, there was a brief discussion about the differences between 'standards' and 'specifications', with the conclusion that M-4 falls in the latter category, as borne out by its title.

NEW ACTION 2: Secretary to include minor changes to M-4 as editorial corrections in the next edition.

NEW ACTION 3: IHB to include the proposed minor changes in the next edition of P-4.

CSPCWG 3 Action 30 (Add hyperlinks from publications download list to INT 1 updates): Michel Huet agreed to check whether hyperlinks to INT1 updates were in place.

NEW ACTION 4: Michel Huet to check whether hyperlinks from 'download' page to INT1 updates were in place on IHO website

Noting new CSPCWG 4 actions 2-4, all CSPCWG 3 actions were closed.

5. Relationship with CHRIS and other CHRIS Working Groups

5.1. Report from CHRIS 18.

Docs: CSPCWG 4-05.1A CSPCWG report to CHRIS 19 (Chairman)
CSPCWG 4-05.1B Text of letter to CHRIS Chairman (Chairman)
CSPCWG 4-05.1C rev1 Notes from CHRIS 19 (Chairman)

The Chairman briefed the meeting on the CHRIS 19 conference, notes of which are to be found in document 4-05.1C. Particular points affecting CSPCWG are:

- Further changes will be required to Terms of Reference in due course, to harmonize with other WGs.
- TSMAD are reconsidering the definitions of the navigational purpose scale bands. This may have an impact on M-4 Part B and M-11 Part A.

ACTION 5: Secretary to consider whether the descriptions of scale bands in M-4 and M-11 need amending following changes to ENC navigational purposes (after issue of relevant IHO CL).

- IHC had called for a review of the Technical Resolutions in M-3. Some of these had been allocated to CSPCWG, and would need to be included in the Work Plan.
- The CHRIS had decided that the IHO publication S-49 'Recommendations concerning Mariners' Routing Guides' should be reviewed by CSPCWG, and would need to be included in the Work Plan. There may need to be liaison with SNPWG.

5.2. Reports from TSMAD and CSMWG

Docs: CSPCWG 4-05.2A Report to TSMAD 15 re review of M-4 (AU)
CSPCWG 4-05.2B M-4 detailed changes for S100 spreadsheet (AU)

Chris Roberts (AU) briefed the meeting on the activities of the TSMAD and CSMWG. Notes are included at ANNEX D.

He suggested that, in the future, any new feature or definitions proposed by CSPCWG for M-4 (such as waiting area) should be submitted to the S-100 Hydro register. He advised that the ENC Encoding Bulletin SubWG (now led by Jeff Wootton AU in lieu of Julia Powell US) is the TSMAD lead for considering CSPCWG correspondence. He also drew attention to the new IHO-discussion website for S-32. The meeting congratulated Chris on the work he had done to prepare the list (document 05.2B) and considered that it should be maintained, possibly by Jeff Wootton.

ACTION 6: Chair to consider option to include proposed CSPCWG definitions in S-100 hydrographic register.

6. Review Terms of Reference (TOR)

Docs: CSPCWG 4-06A TOR (with CSPCWG3 amendments) (Secretary)

Unfortunately, the changes proposed by CSPCWG3 had not yet been formally included in the TOR, although the Chairman had advised the CHRIS Chairman of the proposed changes (see Doc 05.1B). The meeting confirmed the changes, and Michel Huet advised the meeting of some additional changes that had been included in harmonizing the TOR with those of other CHRIS WGs. He then provided a consolidated version, a copy of which is at ANNEX E, showing the changes in red.

Although the TOR requires the WG to maintain close communications, in particular with TSMAD and CSMWG, it was noted that other WGs, eg DQWG, should be included in correspondence on particularly relevant issues (such as any changes to specifications for CATZOC). AU encouraged CSPCWG members to liaise with any of the DQWG members within their own HOs, to ensure CSPCWG is kept in the loop for information.

[After-meeting note: documents M-15 and S-49 added to the revised TOR at Annex E, in green]

ACTION 7: Chair to advise CHRIS Chair of proposed revision of TOR

7. Review CSPCWG procedures

*Docs: CSPCWG 4-07A Procedures agreed at CSPCWG3 (Secretary)
CSPCWG 4-07B Proposed new principles for CSPCWG (AU)*

The meeting agreed in principle with the recommendations 5.1-5.5 in doc 4-07B and required the Secretary to reword as appropriate to include as an additional paragraph in the CSPCWG Procedures. He was also tasked to conduct a scoping review of the extent to which official INT1s do not comply with the recommendations.

ACTION 8: Secretary to include new paragraph in CSPCWG procedures, based on recommendations from CSPCWG4-07B

ACTION 9: Secretary to conduct a scoping review of the extent to which official INT1s do not comply with the recommendations.

8. CSPCWG work plan: Summary of progress

Docs: CSPCWG 4-08A Work plan updated for CHRIS 19 (Secretary)

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

9. Chart content

9.1. Mangrove symbols:

Docs: CSPCWG 4-09.1A Original proposal (from CSPCWG 3) (AU)

The meeting considered that the existing practice of showing mangrove areas as land reflected the fact that (unlike other intertidal areas) they are generally not navigable. However, with increasing use of charts for non-navigation information, it is better to show the real-world situation. It therefore agreed that as mangroves only grow in intertidal areas, it would be appropriate to use intertidal tint. The appropriate limits should be used, ie on the landward side, either a surveyed or unsurveyed coastline (C1, C2); on the seaward side, either a low water line or a fine dashed line (similar to the marsh edge (C33), backed by a line of mangrove symbols, or mangrove symbols spread over an area if required. The complex mangrove symbol is to be obsolescent. For a single conspicuous mangrove tree, C31.2 should be used.

ACTION 10: Secretary to draft revised specification for mangroves for consideration by WG.

9.2. Glossaries on charts

Docs: CSPCWG 4-09.2A Glossaries on charts (DE)

It was agreed that section V of INT1s could be used for national purposes, to include foreign language terms and abbreviations used on charts, to avoid the use of lengthy glossaries on charts.

ACTION 11: Secretary to ask SNPWG whether they have plans to include glossaries in digital publications.

9.3. Sea boundaries

Docs: CSPCWG 4-09.3A Sea Boundaries (especially EEZ between countries) (DE)

The meeting agreed that the draft specification at B-440 needed some clarification, on exactly where it is appropriate to use the international maritime boundary (N41).

ACTION 12: Secretary and Chair to study regulations and consult concerning use of maritime boundary symbols and consequently consider whether the draft specifications require clarification.

9.4. Magnetic anomalies – colour on charts

Docs: CSPCWG 4-09.4A Colour of magnetic detail on charts (Chairman)

The meeting agreed (by vote) that the colour for charting magnetic anomalies should be magenta, for reasons of consistency. Some hydrographic offices are already doing this and for others it would be simple to change as they chart few magnetic anomalies. It was agreed that the Secretary should draft revised wording for M-4, for approval by Member States before amending INT1.

ACTION 13: Secretary to draft amended wording for magnetic anomalies to specify magenta and include in next CSPCWG inspired IHO CL.

9.5. Racon wave bands

Docs: CSPCWG 4-09.5A Racon wave bands on charts (UK)

Recognising that it is not always possible to give details of wavebands at Racons, which may therefore be misleading (implying 3 & 10cm), the meeting decided it would be better not to chart wavebands at Racons. The information, if known, is usually available in associated publications, or can be easily discovered by the mariner by simply switching between wavebands. It is likely that the requirement to trigger Racons will be removed from S-band radar performance standards from 2008. However, the change to specifications (and consequently INT1) should await the review of M-4 Section B-480.

ACTION 14: Secretary to amend specification for Racons to exclude showing wavebands, at revision of B-480.

9.6. Offshore renewable energy installations

Docs: CSPCWG 4-09.6A Symbols for OREI(s) (UK)

The meeting agreed that there is an urgent need to provide guidance for charting offshore renewable energy installations (OREI), as they are already being deployed, at least experimentally, in many seas. The meeting decided that it is not yet appropriate to design a specific point symbol, as there is considerable variation in the types of installation. A possible symbol for the future, suggested by FR, would be to adapt the marine farm symbol (K48.2), by replacing the fish by an electric 'flash'. For the present, use of the 'development area' limit, with appropriate legend, eg 'renewable energy installations' (the word 'offshore' is unnecessary) and associated note would be appropriate. A suitable paragraph should be drafted for inclusion in the revised section B-440, shortly due for approval by Member States. The symbology should be reviewed at the next CSPCWG meeting, and therefore be added as a work item.

ACTION 15: Secretary to draft paragraph on renewable energy installations for B-440 revision, and include in WG letter re maritime boundaries (action 12)

ACTION 16: Secretary to note for agenda item to review depiction of off-shore renewable energy installations at next meeting

10. M-4

10.1. Symbol library

10.1.1. Annex to M-4 suggested by INT1 subWG

Docs: CSPCWG 4-12.1 Report of INT1 subWG (Secretary)

10.1.2. Adoption of M-4 symbols as IHO paper chart symbol library

Docs: CSPCWG 4-10.1A Proposed adoption of M4 symbols as IHO paper chart symbol library (AU)

Acknowledging that there may be slight differences between the chart symbols shown in M-4 and those in the three language versions of INT 1, the meeting discussed whether an international symbol library was desirable and achievable. Possible options were:

- to adopt M-4 as 'the international symbol library' (which is effectively the UK symbol library);
- add an annex to M-4 which would serve as a symbol library and collection of INT1 terms and descriptions in English, French and Spanish;
- engage a contractor to produce a symbol library separate from M-4;
- maintain status quo, ie no formal symbol library; all HOs free to prepare their own, or adopt those they prefer from other HOs, or use whatever is available from software companies. It was noted, for example, that CARIS has its own symbol library, and also those of France, UK and others, are available.

No definite way forward was decided, except to ask for opinions from the full CSPCWG.

ACTION 17: Secretary to draft WG letter asking for views on a way forward on proposal for symbol library.

10.2. Procedures for new and revised routeing measures

Docs: CSPCWG 4-10.2A New and revised routeing measures (UK)

The meeting exchanged details of practices for disseminating information about new and revised routeing measures. In general, most used a system similar to the UK procedure outlined in Document 10.2A. The meeting agreed that the Secretary should include a generic procedure in the draft new 'Maintenance Section' B-600 for M-4. Also, the issues about ENC's were discussed and the meeting considered that using the start/finish date attributes (as designed in S-57) is appropriate. Mariners with older type ECDIS that may be unable to utilise this facility would have to depend on paper chart back-up and Preliminary NMs. It was suggested that WG members should so advise their ENC colleagues.

ACTION 18: Secretary to include section on dealing with new and revised routeing measures in B-600.

ACTION 19: All participants to speak to local ENC specialists about how new and revised routeing measures should be notified in ENC, and advise Secretary of any outcomes by end Jan 2008.

10.3. Conventions for the use of capital letters v upper/lower case letters

Docs: CSPCWG 4-10.3A Convention for the use of capital or lower case letters (Secretary)

The meeting agreed that, as this is unimportant to the chart user, the Secretary and official INT1 producers should take opportunities to make the use of capitals in M-4 and its supplementary documents more consistent, without the need for a formal convention. If however, a convention is developed, this will be included in the WG procedures for future reviewers of these documents.

10.4. Recommended tracks term

Docs: CSPCWG 4-10.4A The term: Recommended Track (UK)

The meeting was concerned about the possible interpretation that the chart user may put on the term 'recommended' track. AU uses the term 'preferred route' where tracks do not fully meet the IMO definition. The meeting agreed that the Secretary should draft a clarification for M-4, with a suitable précis for use in INT1, using words similar to 'established by precedent/usage'.

ACTION 20: Secretary to draft paragraph for M-4 on the meaning of 'recommended' when used with track, for consideration by the WG.

10.5. Maintenance section

Docs: CSPCWG 4-10.4A Maintenance section for M-4 (Secretary)

The meeting confirmed that the overall style and contents of the draft section B-600 accorded with their expectations. Secretary should now proceed to a first formal draft for WG review. It should also be copied to TSMAD (including Jeff Wootton AU) to consider how it may impact on ENC maintenance (although it was confirmed that B-600 should only deal with the maintenance of paper charts, and this should be made clear in the introduction).

ACTION 21: Secretary to progress new section B-600 on Chart Maintenance to WG review stage, retaining draft style and contents.

10.6. B450-479 revision – any issues benefiting from discussion

Docs: see CSPCWG Letter 12/2007

It was confirmed, in response to a question from AU, that buoy symbols are not related to size of actual buoy (except for superbuoys). Therefore, small 'aquabuoys' (in AU waters typically <1m in height) should be charted according to their shape, colour and topmark, if it is appropriate to chart them individually.

The opportunity was taken to consider the late paper, INF2, submitted by DK on behalf of the Nordic countries. Differing views were expressed about the requirement for colour abbreviations on light sector arcs, noting the possibility that actual colour bands may not be visible under all bridge lighting conditions. NO advised the meeting that no tests had been conducted on their multi-coloured charts. It was agreed that colours could be omitted from light descriptions where they were shown on the sector arcs. Participants were invited to include their views in the response to CSPCWG Letter 12/07.

ACTION 22: All participants to comment on DK submission (document INF 2) on 'redundant' colour abbreviations in response to WG letter 12/07 (due 13 December 2007).

10.7 Letter from Tidal Committee (TC)

Docs: see TC Letter dated 6/11/07

The Chairman drew attention to a letter received from the Tidal Committee, at ANNEX F. The meeting agreed that the phrase '*or determined by tidal models*' should be added to B407.2 as an editorial amendment at the next opportunity. Changes to B-302.2 comments will be considered when B-300 is reviewed (and after the TC recommendations amending IHO Technical Resolutions have been approved by Member States).

11. M-11

Report of Chairman's activities in support of INT charting

The Chairman briefed the meeting on his activities in support of INT charting since the last CSPCWG meeting. These included advice to the MBSHC regional chart coordinator on charting around the Russia/Ukraine border and on a Greek proposal for INT charts in the Aegean Sea, advice to Slovenia about a proposed INT chart at the head of the Adriatic Sea, and to the CHRIS Chairman about consequences of changes to the boundary between MACHC and SWAtHC. The Secretary requested IHB to supply revised diagram of IHO International Charting Regions when available, for insertion at M-4 A-204.8.

ACTION 23: Michel Huet to provide Secretary with revised diagram of IHO International Charting Regions, when available.

The Chairman reported that the IHB would shortly be issuing a CL requesting INT Chart Regional Coordinators to take a more active role in advising on ENC schemes. This may result in the Chairman receiving more requests for advice.

12. INT 1 / 2 / 3

12.1. Report by INT1 subWG

Docs: CSPCWG 4-12.1A Report of INT1 subWG meeting (Secretary)

The Chairman thanked the members of the INT1 subWG for their efforts to improve the consistency of the official versions of INT1. It was agreed that CSPCWG members requiring personal copies of official INT1s should request them directly from the producer members.

ACTION 24: WG members to request copies of official INT1s directly from the producer HO's (after announcement by IHO CL).

AU commented that some hydrographic offices introduce new numbers for national symbols, in their national versions of INT1, instead of alphabetical labels. The Secretary was requested to research IHO resolutions and documents to discover whether any written guidance exists, and to include a reminder in the next IHO CL on CSPCWG topics.

ACTION 25: Secretary to research guidance on use of numbers and letters in INT1 versions and draft a reminder to avoid using numbers for national symbols, for inclusion in next suitable IHO CL.

12.2. Unresolved issues from INT1 review by subWG

Docs: CSPCWG 4-12.2A Unresolved issues from INT1 review (Secretary)

12.2.1. Sections G & O (Topographic/Hydrographic terms).

The meeting considered that these sections are useful to assist non-English speaking mariners in translating important terms. It concluded that there would be no advantage in rearranging the list, as each mariner would require it to be in the alphabetical order of his own language, not English. This would make the terms ordered differently in each version of INT1; therefore, the present compartmental layout should be retained. The meeting decided that abbreviations belong in section V and should not be repeated in sections G and O. It decided that, before the next round of INT1 revisions, it would be useful to review the list of terms, to remove terms rarely occurring on charts and consider whether there are some new ones to be added. FR undertook to carry out an initial review and then consult within the INT1 subWG before finalising the draft revised lists for review by the WG.

ACTION 26: France 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.

12.2.2. I21 (Dredged channels or areas)

The meeting decided that I21 should be retained, as it is used by some hydrographic offices for situations where:

- a dredged area (or channel) is not maintained but no control survey date is available;
- where there are designed dredged depths claimed by an authority but no definite undertaking about maintenance has been given.

It was agreed that for I21, the words 'Dredged to' should be removed from the graphic in M-4.

ACTION 27: Secretary to amend graphic I21 in M-4: remove 'dredged to' (and improve depth figure).

12.2.3. K31 (Fouls)

The meeting agreed that K31 should remain in its present location in INT1 and that its description should be amended to: 'Foul ground, not dangerous to surface navigation, but to be avoided by vessels anchoring, trawling, etc (eg remains of wreck, cleared platform)'. [After –meeting note: this is not exactly as agreed at the meeting, but is adapted to conform to the actual specification recently approved for M-4 B-422.8.]. The heading of the sub-section in INT1 should be re-titled 'Wrecks and Fouls'.

The meeting also considered that the definition of foul ground as not dangerous to surface navigation is widely and long established. An alternative definition of foul *areas* as being dangerous to surface navigation is potentially confusing to the user and the Chairman was asked to take this up with the S-57 and S-32 working groups.

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).

ACTION 29: Chairman to raise the issue of the definitions of a foul in S-57 and S-32 with appropriate WGs.

12.2.4. N22 (ESSA)

The meeting agreed that the term 'Environmentally Sensitive Sea Areas' (in English) should be used as a heading for INT1 item N22.

ACTION 30: INT1 producers to include heading 'Environmentally Sensitive Sea Areas' at N22.

12.2.5. Basic routing measure symbols only shown in diagram M20.

The meeting accepted that the numbers used in INT1 M20 would allow cross references (eg to a roundabout) in other IHO documents, and there is no need to repeat symbols elsewhere. There remained some doubt about the usefulness of M27.3 (DW route, centre as one-way track but in magenta), but it is believed to be used by some hydrographic offices and therefore should be retained. (Note: The lack of arrows on the continuous line two-way version is consistent with M3. If bearings are to be added, the bearings should be black as based on actual objects and to avoid confusion with radar bearings). The diagram needs no further amendment.

12.2.6. Section W (International abbreviations).

The meeting accepted the list of International abbreviations as submitted by the INT1 subWG. It decided that the list in INT1 (Section W) is of little use to the chart user (as all the abbreviations are repeated in section V), but essential for the chart compiler. Therefore, the list would be better transferred to M-4.

[After-meeting note: Secretary proposes list should be at B-122 with a reference at B-110.4. This will need approval from IHO Member States.]

ACTION 31: IHB to advise MS in next appropriate CL of intention to transfer list of International abbreviations from INT1 to M-4 Section B-100.

12.3. Removal of INT1 numbers no longer required

Docs: CSPCWG 4-12.3A Proposed removal of unused numbers in official INT1s (AU)

The meeting agreed that there is some merit in removing unused INT1 numbers, and also the need to compare INT terms and descriptions with M-4 to ensure consistency. It agreed that obsolescent symbols should remain in INT1 indefinitely. After wide ranging discussions about INT1, it was decided that it would be useful for a suitable IHB secondee to be tasked with a scoping study into elements of INT1.

ACTION 32: Chairman to produce brief for INT1 scoping study for potential IHB secondee, to include:

- review whether MS have inappropriately allocated INT1 numbers to national symbols;
- possible removal of redundant numbers;
- ensure consistency of terms and descriptions with M-4.

12.4. Rearrangement of sections K and L

Docs CSPCWG 4-12.4A Rearrangements of sections K and L (INT1) (DK)

The meeting agreed that DK's suggestion to transfer 'aquaculture' symbols from INT1 section K to section L is logical (although not essential). It was decided to add this to the work plan as a low priority action for the INT1 subWG. Nevertheless, the action should ideally be completed before S-100 is complete, in order to incorporate new references.

The meeting also requested DE to include the edition number and year date on the front cover of the official English language INT1.

ACTION 33: INT1 subWG to discuss way to implement DK suggestion on moving part of K to L in INT1.

ACTION 34: DE to add year date and edition number to front cover of INT1.

12.5. Future development of INT 1

Docs CSPCWG 4-12.5A Extension of INT1 to also comprise ECDIS symbols (DK)

The meeting considered DK's suggestion for including ENC symbols in INT1. Some small user demand had been identified (mainly from training establishments). Other options considered were an annex to M-4 and a new publication INT4. Some problems were also raised, especially the fact that ENC symbols change according to circumstances (eg simplified/traditional symbols, conditional symbology, day/night displays). It was also noted that users could identify symbols by cursor picking and by reference to the digital ECDIS Chart 1. US advised that NOAA and NGA are currently working on a combined INT1/ENC symbols document, so it was decided that CSPCWG will not take this forward independently of US' work but monitor progress before deciding on any International work.

ACTION 35: US to report to CSPCWG on progress with INT1/S-52 symbol combined document.

13. Review of Work Plan

13.1. The meeting requested the Chairman and Secretary to update the Work Plan's preamble to reflect the 2008-2012 IHO Work Programme. New task letters were allocated for S-49, M-15 (documents which have been added to CSPCWG's responsibility by the CHRIS) and the review of certain Technical Resolutions listed in M-3 (as allocated by CHRIS Chairman).

The meeting agreed the following new work items:

- a. Transfer the list of INT abbreviations from INT1 to M-4 (E6)
- b. Review terms and descriptions in INT1 for consistency with M-4 (E7)
- c. To move part of INT1 section K into section L (E8)
- d. S-49 review (Guidance for Mariners' Routing Guides) (F1)
- e. Review of allocated Technical Resolutions (H1)

13.2. Priorities & timescales

The meeting agreed priorities and timescales for new work items as follows:

- a. E6 – Medium – complete by 2008
- b. E7 – Low – no times allocated
- c. E8 – Low - no times allocated
- d. F1 – Medium – complete by 2009 (if resource offered)
- e. H1 - High - complete by Nov 2008, for CHRIS20

Priorities for existing tasks remained unchanged, but some dates were adjusted to reflect current progress.

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 record. The dates of the latest INT1 versions to be included in the right hand column at E1, but no priority entered for the task, as this is a decision for the producers.

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

[After-meeting note: revised Work Plan provided to Michel Huet 16 November for inclusion in CHRIS19 Report]

14. Any Other Business

14.1. Items to bring to the attention of CHRIS

The following items were noted for the attention of CHRIS:

- a. Proposed new name of the replacement for CSPCWG under the HSSC, effective January 2009. The meeting voted unanimously for Chart Specifications Working Group (CSWG).
- b. The consolidated revised Terms of Reference.

ACTION 36: Chairman to advise CHRIS Chairman of revisions to TOR, and preferred name of future WG.

14.2. Report of Capacity Building activities to CBC.

The meeting was content that the Chairman should produce a report to the CBC Chairman similar to that rendered after CSPCWG3, with the second group of 'bullets' updated as appropriate. However, following some doubts expressed about the usefulness of such a report, the meeting requested the Chairman to first ask the CBC Chairman whether such a report is useful.

ACTION 37: Chairman to ask CBC Chairman whether report is of use (and if yes, construct new report).

14.3. Secondee to IHB.

The Chairman drew attention to IHO CLs 2 & 92/2007, regarding staff secondments to the IHB. He also cited an email from Robert Ward, IHB Director, to WG Chairmen (15/09/07) requesting them to consider whether there were any WG related tasks that could be usefully undertaken by prospective secondees (hence the agenda item). Mr Choi (KR) has now completed his term at IHB, but IHO CL 92/2007 had

identified further tasks for appropriate future secondees. It was decided that the scoping study for INT1 should be added to the list of possible tasks (Action 32 refers).

14.4. INF papers.

Two INF paper had been submitted. INF 2, on the ‘Omission of redundant abbreviations for colours on multi-coloured charts (AU)’ had been discussed at item 10.6. The Chairman drew attention to INF1 on the charting of AIS transmitters on Aids to Navigation (UK). It provided a report of discussions between UKHO and UK’s General Lighthouse Authorities.

14.5. Other items.

The responses to IHO CL 58/2007 on chart seals, deeper wrecks and colour printing had been positive and would be announced by a further CL shortly. Comments received from Colombia about additional clarification on the size of seals would be included in B241.2. Another on B-460 would be taken forward in the draft revision of that section currently in hand.

It was decided to ask for volunteers to lead on the review of S-49.

ACTION 38: Chairman to inform WG of new work item ‘review of S-49’, and invite volunteers.

15. Date, duration and venue of next meeting (CSPCWG 5)

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

The duration of 3 full days this year had worked better than the previous 2½ days format.

As an IHO technical WG, the participants agreed that it was time to hold a meeting outside of Europe and accepted AU’s invitation to meet in Australia. The date to be late in 2008.

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

ACTION 39: AU and Chairman to confirm availability of AU to host CSPCWG 5, and determine dates in late 2008.

ACTION 40: All WG members to make early bids for travel budget; advise Chair if any difficulties.

ACTION 41: All members to note agenda items for CSPCWG 5 throughout the year (and forward to Secretary).

ANNEXES

| | |
|---|--|
| A | Agenda |
| B | List of Conference documents (NB: actual documents are available on IHO website) |
| C | Participants in CSPCWG4 |
| D | C Roberts report from TSMAD14 and CSMWG17 |
| E | Terms of Reference (with changes) |
| F | Letter from Tidal Committee |
| G | CSPCWG Work Plan (updated at CSPCWG4) |
| H | CSPCWG4 Actions |
| I | List of Acronyms and Abbreviations used at CSPCWG4 |

**4th CSPCWG MEETING
Monaco, 13-15 November 2007
FINAL AGENDA**

- 1. Welcome, Introductions and Administrative Arrangements**
Docs: CSPCWG4-01A rev.4 List of documents
CSPCWG4-01B rev.5 List of meeting participants and WG members
- 2. Approval of Agenda**
Docs: CSPCWG4-02A rev.3 Agenda
- 3. Election of officers (Chairman and Vice-chairman)**
Docs: CSPCWG4-03A Election of officers
- 4. Status of Actions from CSPCWG 3**
Docs: CSPCWG4-04A rev.1 Status of actions from CSPCWG3
CSPCWG4-04B Action 29: status of INT1, 2, 3
- 5. Relationship with CHRIS and CHRIS WGs (TSMAD & CSMWG)**
 - 5.1. Report from CHRIS19 (Chair)**
Docs: CSPCWG4-05.1A CSPCWG Report to CHRIS19
CSPCWG4-05.1B Text of letter to CHRIS Chairman
CSPCWG4-05.1C Chairman's notes from CHRIS19
 - 5.2. Reports from TSMAD and CSMWG (AU)**
Docs: CSPCWG4-05.2A Report to TSMAD15 re the review of M-4
CSPCWG4-05.2B M-4 detailed changes for S-100 (spreadsheet)
- 6. Review Terms of Reference**
Docs: CSPCWG4-06A TOR (with CSPCWG3 amendments)
- 7. Review CSPCWG procedures**
 - 7.1. Additional principles (AU)**
Docs: CSPCWG4-07A Principles agreed at CSPCWG3
CSPCWG4-07B Proposed new principles for CSPCWG
- 8. CSPCWG work plan**
 - 8.1. Summary of progress (Sec)**
Docs: CSPCWG4-08A Work plan updated for CHRIS19
- 9. Chart content:**
 - 9.1. Mangrove symbol (see Action 13 from CSPCWG3) (AU)**
Docs: CSPCWG4-09.1A Original proposal by AU
 - 9.2. Glossaries on charts (DE)**
Docs: CSPCWG4-09.2A Glossaries on charts
 - 9.3. Sea boundaries (DE)**
Docs: CSPCWG4-09.3A Sea Boundaries (especially EEZ between countries)
 - 9.4. Magnetic anomalies – colour on charts (UK)**
Docs: CSPCWG4-09.4A Colour of magnetic detail on charts
 - 9.5. Racon wave bands (UK)**
Docs: CSPCWG4-09.5A Racon wavebands on charts
 - 9.6. Offshore renewable energy installations (UK)**
Docs: CSPCWG4-09.6A Symbol(s) for OREI
- 10. M-4**
 - 10.1. Symbol library**
 - 10.1.1. Annex to M-4 suggested by INT 1 subWG (Sec)**
Docs: see CSPCWG4-12.1

- 10.1.2.** Adoption of M4 symbols as IHO paper chart symbol library **(AU)**
Docs: CSPCWG4-10.1A Proposed adoption of M4 symbols as IHO paper chart symbol library
- 10.2.** Procedures for new/revised routeing measures (including ENC) **(UK)**
Docs: CSPCWG4-10.2A New and Revised Routeing Measures
- 10.3.** Conventions for use of capital letters v upper/lower case letters **(UK)**
Docs: CSPCWG4-10.3A Conventions for use of cap. or l.c. letters
- 10.4.** Recommended tracks term **(UK)**
Docs: CSPCWG4-10.4A The term: Recommended Track
- 10.5.** Maintenance section **(UK)**
Docs: CSPCWG4-10.5A Maintenance Section for M-4
- 10.6.** B-450-479 revision – any issues benefiting from discussion?
Docs: see CSPCWG Letter 12/2007
*CSPCWG4- INF2 Omission of redundant abbreviations for colours on multi-coloured charts **(DK)***
- 10.7.** Submission from Tidal Committee
Docs: See TC letter dated 6/11/0

11. M-11

Report of Chairman's activities in support of INT charting **(Chair)**

12. INT 1 / 2 / 3

- 12.1.** Report by INT1 subWG **(Sec)**
Docs: CSPCWG4-12.1A Report
- 12.2.** Unresolved issues from INT 1 review by subWG
 - 12.2.1.** Sections G and O
 - 12.2.2.** I21 – requirement for INT 1 entry
 - 12.2.3.** K31 – position of 'Foul' in INT 1
 - 12.2.4.** N22 – use of abbreviation ESSA
 - 12.2.5.** Basic routeing measure symbols only shown in diagram
 - 12.2.6.** Section W (International abbreviations)
Docs: CSPCWG4-12.2A Unresolved issues from INT1 review
- 12.3.** Removal of numbers no longer required, eg L13-15 **(AU)**
Docs: CSPCWG4-12.3A Proposed removal of unused numbers in official INT1s
- 12.4.** Rearrangements of sections K and L **(DK)**
Docs: CSPCWG4-12.4A Rearrangements of sections K and L (INT 1)
- 12.5.** Future development of INT1 **(DK)**
Docs: CSPCWG4-12.5A Extension of INT 1 to also comprise ECDIS symbols

13. Review of Work Plan

- 13.1.** New items
- 13.2.** Priorities
- 13.3.** Timescales for tasks

14. Any Other Business

- 14.1.** Items to bring to attention of CHRIS
- 14.2.** Report of Capacity Building activities to CBC
- 14.3.** Seconded to IHB – duties (see R Ward email 14/09/07)
- 14.4.** INF papers:
 - 14.4.1.** Charting of AIS transmitters on Aids to Navigation **(UK)**
Docs: CSPCWG INF 1

15. Date, duration and venue of next meeting

**4th CSPCWG MEETING
Monaco, 13-15 November 2007**

LIST OF DOCUMENTS

CSPCWG papers:

| | |
|---------------------|--|
| CSPCWG4-01A rev.4 | <i>List of documents</i> |
| CSPCWG4-01B rev.5 | <i>List of meeting participants and WG members</i> |
| CSPCWG4-02A rev.3 | <i>Agenda</i> |
| CSPCWG4-03A | <i>Election of officers</i> |
| CSPCWG4-04A rev.1 | <i>Status of actions from CPSCWG3</i> |
| CSPCWG4-04B | <i>Action 29: status of INT1, 2, 3</i> |
| CSPCWG4-05.1A | <i>CSPCWG report to CHRIS 19</i> |
| CSPCWG4-05.1B | <i>Text of letter from Chairman to CHRIS Chairman</i> |
| CSPCWG4-05.1C rev.1 | <i>Chairman's notes from CHRIS19</i> |
| CSPCWG4-05.2A | <i>Copy of draft report to TSMAD15 regarding review of M-4</i> |
| CSPCWG4-05.2B | <i>Spread sheet of M-4 changes impact for S-100</i> |
| CSPCWG4-06A | <i>CSPCWG Terms of Reference (with draft changes agreed at CSPCWG3)</i> |
| CSPCWG4-07A | <i>CSPCWG Procedures (agreed at CSPCWG3)</i> |
| CSPCWG4-07B | <i>Proposal new principles for CSPCWG</i> |
| CSPCWG4-08A | <i>Updated work plan</i> |
| CSPCWG4-09.1A | <i>Original 'Portrayal of mangrove trees and areas on paper charts' proposal</i> |
| CSPCWG4-09.2A | <i>Glossaries on charts</i> |
| CSPCWG4-09.3A | <i>Sea boundaries</i> |
| CSPCWG4-09.4A | <i>Colour of magnetic detail on charts</i> |
| CSPCWG4-09.5A | <i>Racon wavebands on charts</i> |
| CSPCWG4-09.6A | <i>Symbol(s) for OREI</i> |
| CSPCWG4-10.1A | <i>Proposed adoption of M-4 symbols as the IHO paper chart symbol library</i> |
| CSPCWG4-10.2A | <i>Charting of New and Revised Routeing Measures</i> |
| CSPCWG4-10.3A | <i>Conventions for use of capital or lower case letters</i> |
| CSPCWG4-10.4A | <i>The term: Recommended Track</i> |
| CSPCWG4-10.5A | <i>Maintenance section for M-4</i> |
| CSPCWG4-12.1A | <i>Report from INT1 subWG meeting</i> |
| CSPCWG4-12.2A | <i>Unresolved issues from review of INT 1 by subWG</i> |
| CSPCWG4-12.3A | <i>Proposed removal of unused numbers in official INT1s</i> |
| CSPCWG4-12.4A | <i>Rearrangements of sections K and L (INT 1)</i> |
| CSPCWG4-12.5A | <i>Extension of INT 1 to also comprise ECDIS symbols</i> |
| CSPCWG4-INF 1 | <i>Charting of AIS transmitters on Aids to Navigation</i> |
| CSPCWG4-INF 2 | <i>Omission of redundant abbreviations for colours on multi-coloured charts</i> |

4th CSPCWG MEETING
Monaco, 13-15 November 2007

CSPCWG4 PARTICIPANTS
With email addresses

| Member State | Name | Email |
|---------------------|--|---|
| Australia | Mr Chris ROBERTS (Vice-Chairman) | chris.roberts@defence.gov.au |
| Canada | Mr David PRINCE | PrinceD@pac.dfo-mpo.gc.ca |
| Denmark | Ms Nina GRAASBOL-SCHMIDT *Mrs Berit HOLSE | ng@kms.dk bes@kms.dk |
| France | Mr Yves LE FRANC | yves.le.franc@shom.fr |
| Germany | Ms Sylvia SPOHN | sylvia.spohn@bsh.de |
| Indonesia | Capt Rusdi RIDWAN *Cdr. TRISMADI | infohid@indo.net.id |
| Italy | Cdr Enrico ANTONINO | iim.crt@marina.difesa.it |
| Norway | Mrs Inger TELLEFSEN | inger.tellefsen@statkart.no |
| Spain | Cdr Angel CHANS | ihmesp@fn.mde.es |
| United Kingdom | Mr Peter JONES (Chairman) Mr Andrew HEATH-COLEMAN (Secretary) | peter.jones@ukho.gov.uk andrew.coleman@ukho.gov.uk |
| USA (NOAA) | Mr Robert HEELEY *Mr Leonard ARKENAU | robert.heeley@noaa.gov leonard.Arkenau@noaa.gov |
| IHB | Mr Michel HUET | mhuet@ihb.mc |

* Guest

Annex D to CSPCWG4 Record

Report on the activities of TSMAD and CSMWG to CSPCWG4

TSMAD

TSMAD is now meeting about 4 times pa, 2 main meetings (one of which is combined with CSMWG) and 2 Focus Group meetings to concentrate on various aspects (profiles) of S-100.

S-100 (The mother standard) is expected to be published as a 'familiarization version' early 2008 after TSMAD15 (Monaco in January). S-101 (the new ENC Product Specification) is planned for release late 2008 but will not be implemented until at least 2012.

S-57 Edition 3.1.1 was published in Jan 2007 and included new object classes for ASL (areas and axes), ESSA and PSSA and for a new object (NEWOBJ) in case IMO comes up with any other new objects that cannot be encoded using existing S-57 objects.

The new Hydrographic Register (for S-100) is currently being tested and will be used to propose all new features, attributes and enumerated values (attribute values). As CSPCWG approved new features for the paper chart, it could register on the Hydro Register and make proposals directly (for consideration by CSPCWG in consultation with TSMAD).

CSPCWG Letters are now to be examined by the TSMAD ENC Encoding Bulletin SubWg for formal reply under the TSMAD Chairman's signature. MS within this group include Australia (Coordinator), Canada, Finland, France, Germany, IC-ENC, NOAA, South Africa and United Kingdom.

Work items addressed that CSPCWG has an interest include:

1. ASLs, ESSAs, PSSAs included in S-57 E3.1.1.
2. ENC Encoding Bulletins will be issued for:
 - Oscillating lights (PELS)
 - Wrecks (update to B-422.5 and 422.6)
 - Emergency Wreck Marking Buoys
 - Underwater turbines and current farms
 - Wind turbines and wind farms.
3. Overuse of caution area (CTNARE) is being addressed for S-101.

CSMWG

Has published Maintenance Document No 5 (MD05) which will drive a new edition of the Presentation Library (E3.4) which must be implemented by 1 Jan 2009. MD05 includes items from the last 3 CSMWG meetings.

Will produce MD06 before the end 2007 to include updates from the revised IMO Performance Specifications for ECDIS. CHRIS19 approved this addition as part of PL E3.4.

The CSMWG will also produce a new edition of S-52 to include all the MD updates. This is expected late 2007, early 2008.

The Chairman, Dr Jonas is standing down from CSMWG after CSMWG18 in May 2008. It is unknown who will take up this responsibility.

Work items addressed that CSPCWG has an interest include:

1. Emergency Wreck Marking Buoys (will be displayed as BOYSPP)
2. Symbol Register being developed
3. Wrecks references updated to reflect M-4 B-422
4. EEZ is already symbolised
5. Continental shelf is also already symbolised
6. Canals and rivers should now all display as blue (similar to paper chart)
7. Obstructions, wrecks and underwater rocks will now display the VALSOU (value of sounding) when soundings are turned ON, until the critical depth is reached and then it will automatically be portrayed as an isolated danger symbol.
8. ESSAs, PSSAs and ASL will now be symbolised.
9. Foul ground # symbol introduced for CATWRK = 3 (distributed remains of wreck) K31.
10. ECDIS Chart 1 has been prepared which will be selectable from the ECDIS display.
11. The new sea plane landing area symbol was NOT adopted by CSMWG.
12. IEC TC80 WG 7 has drafted a new edition of IEC 61174 (Edition 3) which now tests for time dependant features. So any new type approved ECDIS should correctly handle S-57 attributes DATEND, DATSTA, PEREND and PERSTA.

Chris ROBERTS, 13 Nov 2007
Member CSPCWG, CSMWG, TSMAD

**4th CSPCWG MEETING
Monaco, 13-15 November 2007**

Amendments to CSPCWG Terms of Reference agreed by the CSPCWG 4 meeting, in red. Secretary's after-meeting suggestions in green.

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

1. Objectives

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

2. Authority

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

3. Procedures

- a. The WG's main tasks are to:
 - i. Keep under continuous review the IHO publication M-4 'Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO', in order to advise the IHO on their updating, design and format **and the portrayal of symbols**. Note: M-4 **incorporates is supplemented by**:
 - INT 1 'Symbols, Abbreviations and Terms used on Charts'
 - INT 2 'Borders, Graduation, Grids and Linear Scales'
 - INT 3 'Use of Symbols and Abbreviations, as recommended by the IHO'
 - ii. Advise the IHO on suggestions put forward by Member States to update M-4, in accordance with IHO Specification B-160, with the goal of achieving the maximum possible adherence by Member States to the Regulations and Specifications.
 - iii. Keep under continuous review the **following IHO publications in order to advise the IHO on their updating**:
 - **M-11 Part A 'Guidance for the Preparation and Maintenance of International Chart Schemes'**
 - **M-15 'List of Booklets on Chart Symbols & Abbreviations'**
 - **S-49 'Recommendations concerning Mariners' Routeing Guides'**
 - iv. Advise the IHB and Regional Hydrographic Commissions, as appropriate, on the work of Regional Charting Groups (RCG) in order to promote the production of **large—and medium-scale** international (INT) charts. The role of the WG is purely consultative.
 - v. Offer advice based on its experience to RCG and individual Member States, on chart schemes and cartographic work, in order to **strongly** encourage adherence to IHO charting **standards specifications**. The role of the WG is purely consultative.
- b. The WG conducts its business mainly by correspondence. It will also plan to hold meetings at least once every two years, dependant on membership support and business needs.

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

4. Composition and Chairmanship

- a. Membership of the CSPCWG is open to all Member States wishing to be represented. Normally there should be not more than one representative from each Member State.
- b. Accredited Non-Governmental International Organizations observers may participate in CSPCWG activities.
- c. The Chair and Vice-Chair shall be a representative of a Member State. The election of the Chair and Vice-Chair shall be decided at the first meeting after each ordinary session of the Conference (Conference to be replaced by Assembly when the revised IHO Convention enters force) and shall be determined by vote of the Member States present and voting.
- d. If the Chair is unable to carry out the duties of the office, the Vice-Chair shall act as the Chair with the same powers and duties.
- e. The Chairman and Vice-Chairman will decide between themselves the organization of the work entailed in these posts.
- f. The Chairman will monitor membership to ensure that each regional hydrographic commission is invited to be represented on the WG.
- g. A Secretary will be appointed, normally from within the organization of the Chairman of the WG, to ensure the smooth running of business, and to administer consultation and collation of members' views. The Secretary is a member of the WG.

5. Guiding principles

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

INTERNATIONAL HYDROGRAPHIC
BUREAU



BUREAU HYDROGRAPHIQUE
INTERNATIONAL

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

Mr Peter Jones
Chairman CSPCWG
UKHO
Admiralty Way
Taunton
TA1 2DN
UK

IHB File N° S3/4405

6 November 2007

Dear Peter,

1. The IHO Tidal Committee (IHOTC) held its 8th Meeting in Halifax, Canada from 23 – 26 October 2007. As part of its routine business it reviewed those Technical Resolutions from M-3 and Charting Specifications from M-4 in order to ensure harmonisation and correctness.
2. The IHB will shortly be sending out a CL to Member States seeking their agreement to amend some TRs. Two of these changes are designed to harmonise M-3 with M-4 namely:

A2.5 DATUMS AND BENCH MARKS

In section 1 additional clarification is provided concerning the use of MSL where tidal range is not appreciable. This clarification harmonizes TR A2.5 with "The Chart Specifications of the IHO" (IHO Publication M-4) section B-302.2, B-380.1 and B405.2 and better reflects the views of the Tidal Committee.

- 1.- It is resolved that heights on shore, including elevations of lights, should be referred to a HW datum. Heights should be referred to ~~or~~ Mean Sea Level (MSL) where the tidal range is not appreciable. The datum used should be clearly stated on all charts.

TR A2.9 DESCRIPTION OF CURRENTS AND TIDAL STREAMS

In section 6 the additional words "to 1 decimal place" are included to bring this TR into alignment with "Chart Specifications of the IHO" (IHO Publication M-4) section B-407.1.

- 6.- It is resolved that velocities shall be given in knots *to 1 decimal place*.
3. The IHOTC also considered that 2 sections of M-4 merited review namely:
B302.2 – The comments section should be reviewed in light of the proposed amendments to TR A2.5.

B-407.2 – Add the words in italics: “Stations (locations) at which tidal streams have been observed *or determined from tidal models* and for which the data has

4. At its 8th Meeting John Page also tendered his resignation as Chairman due to his forthcoming retirement from the UKHO. Stephen Gill from the USA NOAA was elected as Chairman for the period 2008 – 2012.

5. The IHOTC looks forward to hearing the outcome of your consideration of the points raised in paragraph 3 above in due course.

Yours sincerely



Stephen Shipman
Secretary, IHOTC.

Information:

Andrew Coleman (UKHO)
John Page (UKHO)
Stephen Gill (NOAA)
Robert Ward (IHB)
Michel Huet (IHB)

CSPCWG Work Plan (updated at CSPCWG4 13-15 November 2007)

- *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.*

Specific CSPCWG Tasks

- A Revise, develop and maintain Publication M-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts'.
- B Revise, develop and maintain Publication M-11 'Catalogue of INT Charts' Part A maintained by CSPCWG.
- C International NMs (Task completed).
- D Development of new (and revised) symbology.
- E Maintenance of M-4 supplementary publications INT 1, 2 & 3.
- F Revise, develop and maintain S-49 'Recommendations concerning Mariners' Routeing Guides'.
- G Revise, develop and maintain Publication M15 'List of Booklets on Chart Symbols & Abbreviations'.
- H Review selected Technical Resolutions from Publication M3 'Technical and Administrative Resolutions'.

| Task | Work item | Priority * | Next Milestone | Start Date | End Date | Status ** | Contact Person(s) | Affected Pubs/Standard | Remarks |
|---------|---|------------|------------------------------------|------------|----------|-----------|--|------------------------|--|
| A.4 | Revise M-4 Part B Section 400 | H | Revise and publish | 2005 | 2009 | O | Sec CSPCWG | M-4 / B-400 | B-400 divided into sub-sections for manageability. |
| A.4.3 | Sub-section B-440 to B-449 | H | Final agreement on changes from WG | 2006 | 2008 | O | Sec CSPCWG | M-4 / B-400 | Include final items raised at CSPCWG4 |
| A.4.4.1 | Sub-section B-450 to B-479 | H | Responses to WG Ltr 12/07 | 2007 | 2008 | O | Sec CSPCWG | M-4 / B-400 | 1 st draft with WG (see WG Ltr 12/07) |
| A.4.4.2 | Sub-section B-480 to B-499 | H | WG Ltr for round 1 | 2008 | 2009 | P | Sec CSPCWG | M-4 / B-400 | Not started |
| 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 | WG Ltr for round 1 | 2006 | 2009 | O | Sec CSPCWG | M-4 / B-600 | 1 st draft in prep with Sec/Chair |
| A.9 | Additional paragraph in B-100 re colour examples | L | Inclusion in M-4 and IHO CL | 2006 | 2007 | C | IHB, Sec CSPCWG | M-4 / B-100 | IHO CL 58/2007 responses. |
| A.10 | Use of English on charts | H | MS approval | 2006 | 2007 | O | Sec/Chairman CSPCWG | M-4 | IHO CL 82/2007 refers |
| D.9 | Develop new symbol for synchronized and sequential lights | M | | 2005 | 2008 | O | Sec CSPCWG | M-4, INT 1 | Included in A.4.4.1 |
| D.13 | Mangroves | M | WG Ltr | 2006 | 2008 | O | Sec, AU (C Roberts) | M-4, INT 1 | CSPCWG4 Action 10 |
| E.1 | Maintain official INT 1s | n/a | Publish Spanish language version | | | O | FR: Y Le Franc ES: A Chans DE: S Spohn | INT 1 | French version 2006. Spanish version 2007. English version planned 2008. |
| E.4 | Symbols for vacant entries in INT 1 | L | | | | P | Sec CSPCWG | INT 1, M-4 part B | CSPCWG4 Action 32 |
| E.5 | Small craft symbols | L | | | | P | Sec CSPCWG | INT 1, M-4 part B | |
| E.6 | INT abbreviations | M | Include in M-4 | 2006 | 2008 | O | Sec CSPCWG | INT1, M-4 part B | CSPCWG4 Action 31 |
| E.7 | Review terms in INT1 for consistency with M4 | L | | | | P | Sec CSPCWG | | Selected pages, to gauge extent of issue. CSPCWG4 Action 9 |
| E.8 | Move part of INT1 K into L | L | | | | P | INT1 subWG | | CSPCWG4 Action 33 |
| F.1 | Review S-49 | M | WG Ltr | 2007 | 2009 | P | Chairman | S-49 | CSPCWG4 Action 38 |
| H.1 | Review allocated Technical Resolutions (as listed in IHB Ltr 7/09/07 to Committee Chairman) | H | CHRIS Chairman ltr to WG Chairman | 2007 | 2008 | O | Chairman | M-3 | Work to be completed for CHRIS20 (Nov 2008) |

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

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

- CSPCWG Meetings:**
1. Date: 03-05 Nov 2004 Location: IHB Monaco.
 2. Date: 19-21 Oct 2005 Location: IHB Monaco.
 3. Date: 22-24 Nov 2006 Location: IHB Monaco
 4. Date: 13-15 Nov 2007 Location: IHB Monaco
 5. Date: late 2008 (tbd) Location: Australia

Chairman: Peter Jones

Email: peter.jones@ukho.gov.uk

Vice-chairman: Chris Roberts

Email: chris.roberts@defence.gov.au

Secretary: Andrew Heath-Coleman.

Email: andrew.coleman@ukho.gov.uk

CSPCWG 4 ACTIONS

(updated to 11/12/2007)

| No | Action | Delegate | Status |
|----|---|------------------|-----------|
| 1 | Draft record of meeting by end December for participants to examine <i>Draft circulated 22/11/07</i> | Sec | Completed |
| 2 | Include minor changes to M-4 as editorial corrections in the next edition of M-4. | Sec | |
| 3 | Include the proposed minor changes in the next edition of P-4. | M Huet | Completed |
| 4 | Check whether hyperlinks from 'download' page to INT1 updates were in place on IHO website. | M Huet | Completed |
| 5 | Consider whether the descriptions of scale bands in M-4 and M-11 need amending following changes to ENC bands (after issue of IHO CL) | Sec | |
| 6 | Consider option to include proposed CSPCWG definitions in S-100 hydrographic register. | Chair | |
| 7 | Proposed revision of TOR to be advised to CHRIS Chair | Chair | |
| 8 | Include new paragraph in CSPCWG procedures, based on recommendations from CSPCWG4-7B | Sec | |
| 9 | Conduct scoping review of the extent to which official INT1s do not comply with the recommendations | Sec | |
| 10 | Draft revised specification for mangroves for consideration by WG | Sec | |
| 11 | Ask SNPWG whether plans to include glossaries in digital publications. | Sec | |
| 12 | Study regulations concerning use of maritime boundary symbols and consequently consider whether specifications require clarification. | Chair/Sec | |
| 13 | Draft amended wording for magnetic anomalies to specify magenta and include in next CSPCWG inspired IHO CL. | Sec | |
| 14 | Amend specification for Racons to exclude showing wavebands, at revision of B-480. <i>Noted for removal</i> | Sec | Completed |
| 15 | Draft paragraph on renewable energy installations for B-440 revision, and include in WG letter re maritime boundaries (action 11) | Sec | |
| 16 | Note for agenda item to review depiction of off-shore renewable energy installations at next meeting <i>Noted</i> | Sec | Completed |
| 17 | Draft WG letter asking for views on a way forward on proposal for symbol library | Sec | |
| 18 | Include section on dealing with new and revised routing measures in B-600 | Sec/Chair | |
| 19 | 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 | All participants | |
| 20 | Draft paragraph for M-4 on the meaning of 'recommended' when used with track. for consideration by WG | Sec | |
| 21 | Progress new section B-600 on Chart Maintenance to WG review stage, retaining draft style and contents | Sec/Chair | |
| 22 | Comment on DK submission (INF 2) on 'redundant' colour abbreviations in response to WG letter 12/07 (due 13 December 2007) | All participants | |
| 23 | Provide Secretary with revised diagram of IHO International Charting Regions, when available. | M Huet | |

| No | Action | Delegate | Status |
|----|--|---|---------|
| 24 | WG members to request copies of official INT1s directly from the producer HO's (after announcement by IHO CL) | All participants that require personal copies | |
| 25 | Research guidance on use of numbers and letters in INT1 versions and draft a reminder to avoid using numbers for national symbols, for inclusion in next suitable IHO CL | Sec | |
| 26 | 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. | FR | |
| 27 | Amend graphic I21 in M-4: remove 'dredged to' (and improve depth figure) <i>Noted for next edition of M-4</i> | Sec | |
| 28 | 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). | INT 1 producers | |
| 29 | Raise the issue of the definitions of a foul in S-57 and S-32 with appropriate WGs | Sec/Chair | |
| 30 | Include heading 'Environmentally Sensitive Sea Areas' at N22 | INT1 producers | |
| 31 | Advise MS in next appropriate CL of intention to transfer list of International abbreviations from INT1 to M-4 Section B-100. | Sec/IHB | |
| 32 | Produce brief for INT1 scoping study for potential IHB secondee, to include: <ul style="list-style-type: none"> • advice about not using INT1 numbers for national symbols; • possible removal of redundant numbers; • ensure consistency of terms and descriptions with M-4. | Chair/Sec | |
| 33 | Discuss way to implement DK suggestion on moving part of K to L in INT1 | INT1 subWG | |
| 34 | Add year date and edition number to front cover of INT1 | DE | |
| 35 | Report to CSPCWG on progress with INT1/S52 symbol combined document | US | |
| 36 | Advise CHRIS Chairman of revisions to TOR, and preferred name of future WG | Chair | |
| 37 | Ask CBC Chairman whether report is of use (and if yes, construct new report). | Chair | |
| 38 | Inform WG of new work item 'review of S-49', and invite volunteers | Chair | |
| 39 | Confirm availability of AU to host CSPCWG 5, and determine dates in late 2008 | AU/Chair | |
| 40 | Make early bids for travel budget; advise Chair if any difficulties | All WG members | |
| 41 | Note agenda items for CSPCWG 5 throughout the year (and forward to Secretary). | All WG members | |
| 42 | Review and note any changes to M-4 and INT1 that may be relevant for S-100 and report to TSMAD15. | AU | ongoing |

LIST OF ACRONYMS AND ABBREVIATIONS USED AT CSPCWG4

(that are not given in full in the immediate vicinity in the text)

| | |
|-----------------|--|
| AIS | Automatic Identification System |
| ASL | Archipelagic Sea Lane |
| AU | Australia |
| CA | Canada |
| CARIS | Computer Aided Resource Information System (a private company specializing in geomatics software) |
| CATZOC | Category of Zone of Confidence |
| CBC | Capacity Building Committee (of IHO) |
| CHRIS | Committee on Hydrographic Requirements for Information Systems (of IHO) |
| CL | Circular Letter (of IHO) |
| CSMWG | Colours and Symbols Maintenance WG (of CHRIS) |
| CSPCWG | Chart Specifications and Paper Chart WG (of CHRIS) |
| DE | Germany |
| DK | Denmark |
| doc | CSPCWG document or paper associated with the meeting |
| DQWG | Data Quality Working Group (of CHRIS) |
| DW | Deep Water (route or anchorage for deep draught vessels) |
| ECDIS | Electronic Chart Display and Information System |
| EEZ | Exclusive Economic Zone |
| ENC | Electronic Navigational Chart |
| ES | Spain |
| ESSA | Environmentally Sensitive Sea Area |
| 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 |
| IC-ENC | International Centre for ENCs |
| ID | Indonesia |
| IEC | International Electrotechnical Commission |
| IEC TC80 | International Electrotechnical Commission Technical Committee 80 |
| IHB | International Hydrographic Bureau |
| IHC | International Hydrographic Conference |
| IHO | International Hydrographic Organization |
| IMO | International Maritime Organization |
| INF | Information paper |
| INT | International |
| INT1 | Symbols, Abbreviations, Terms used on Charts |
| INT2 | Borders, Graduations, Grids and Linear Scales |
| INT3 | Use of Symbols and Abbreviations - standard reference chart |
| ISO | International Standards Organization |
| IT | Italy |
| KR | Republic of Korea (South Korea) |
| M-3 | Resolutions of the IHO |
| M-4 | Chart Specifications of the IHO |
| M-11 | Part A: Guidance for the preparation and maintenance of INT chart schemes Part B: Catalogue of INT charts |
| M-15 | List of Booklets on Chart Symbols and Abbreviations Published by Various Maritime Countries |
| MACHC | Meso-American and Caribbean Sea Hydrographic Commission |
| MBSHC | Mediterranean and Black Seas Hydrographic Commission |
| MS | Member State (of IHO) |
| NGA | National Geospatial-Intelligence Agency (USA) |

| | |
|---------------|--|
| NM | Notice to Mariners |
| NO | Norway |
| NOAA | National Oceanic and Atmospheric Administration (USA) |
| OREI | Offshore renewable energy installation |
| PSSA | Particularly Sensitive Sea Area (IMO) |
| Racon | Radar beacon |
| 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-100 | Proposed IHO Geospatial Standard for Hydrographic data |
| Sec | Secretary (of CSPCWG) |
| SNPWG | Standardization of Nautical Publications Working Group (IHO) |
| SWatHC | South West Atlantic Hydrographic Commission |
| TC | Tidal Committee (of IHO) |
| TOR | Terms of reference |
| TR | Technical Resolution (of the IHO) – see M-3 |
| TSMAD | Transfer Standard Maintenance and Application Development Working Group (of CHRIS) |
| UK | United Kingdom of Great Britain and Northern Ireland |
| US | United States of America |
| WG | Working Group (of IHO) |