



CHART STANDARDIZATION & PAPER CHART WORKING GROUP (CSPCWG)

[A Working Group of the Hydrographic Services and Standards Committee (HSSC)]

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To CSPCWG Members

Date 12 May 2011

Dear Colleagues,

Subject: Actions arising from 7th CSPCWG meeting

Many of the 30 actions listed at CSPCWG7 required the Secretary (sometimes in consultation with others) to draft various papers. Work has started on most of these but it seems best to present them for consideration by Working Group members in small groups.

This letter covers actions 7, 20, 22 and 25. Each is the subject of a separate Annex. In each case, the relevant extract from the Record of CSPCWG7 meeting heads the Annex, and is followed by the proposed new or revised text.

Please study each carefully and let me have your comments by 7 July, using the response Form at Annex E. Responses are invited from all WG members, not just those who attended CSPCWG7.

Yours sincerely,

Andrew Heath-Coleman,
Secretary

Annex A	Action 7: Revisions to CSPCWG procedures
Annex B	Action 20: Revision of S-4 A-401 and B-128, consequent on publication B-600
Annex C	Action 22: New introductory wording on 'Primary Purpose of Nautical Charts'
Annex D	Action 25: New B-151.2 on 'Retired' INT1 numbers
Annex E	Response Form

CSPCWG7 – ACTION 7

Extract from CSPCWG7 record

6. CSPCWG procedures

Docs: CSPCWG7-06A CSPCWG Procedures

Changes to the CSPCWG procedures will be needed to take account of HSSC changes, specifically:

- Scheduling of meeting (avoiding 9 weeks before HSSC meetings)
- HSSC approval of new work items and changes (revisions, new editions) to IHO Standards
- New version control numbering for CSPCWG documents.

ACTION 7: Sec/Chair to draft revisions to procedures for WG approval.

Proposed changes shown in red

CSPCWG PROCEDURES

(Updated 2011, following CSPCWG7 meeting)

1. Correspondence

- 1.1. The working **language** of the Working Group (WG) shall be English.
- 1.2. Correspondence (including formal CSPCWG letters) will normally be by email (except where fax is necessary for sending non-digital graphics). Respondents are encouraged to use the 'Reply to all' option for responses, to ensure the full Working Group membership is aware of developing discussions.
- 1.3. It is necessary to ensure that personal address lists are updated when updated membership and contact lists are issued from time to time. These are dated and posted on the CSPCWG section of the IHO website.
- 1.4. Hard copies of CSPCWG correspondence will only be posted if specifically requested by a WG member
- 1.5. Significant correspondence will be supplied to other HSSC WG Chairmen and/or Secretaries as appropriate, for their WGs' information and seeking their input.

2. Timescales

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

3. Meetings

- 3.1. Meetings will be held at least once every two years. During the revision of S-4, while activity in the WG is high, meetings will be held approximately annually. A meeting should last approximately three days.
- 3.2. It is important to have issues which would benefit from a face-to-face discussion on the agenda, which may not be known until near the meeting time. However, the venue and date of the next meeting shall be considered at the previous meeting, in order to facilitate participants' travel arrangements.

3.3. Meetings will be held either by invitation of a WG member, or at the IHB in Monaco. If more than one invitation is available, the venue will be agreed by vote at the earliest opportunity.

3.4. CSPCWG Meetings will not be held in the 9 week period before an HSSC meeting.

4. Publications

4.1. CSPCWG is responsible for maintaining IHO publications S-4 (and its supplementary documents), S-11 Part and S-49. The principles and procedures for making changes to IHO technical standards and specifications are set out in IHO TR 2/2007 and apply to CSPCWG documents. However, for S-4, the existing approval arrangements set out in B-160 of S-4 and accepted by Member States remain in force until the current major revision of S-4 is completed, which is expected in 2012. This is to avoid changing a well-established and accepted practice midway through the revision process (IHO CL 87/2010 refers).

4.2. The principal task of CSPCWG at present is to update S-4 (The International Chart Regulations and Specifications). This is being progressed by sections with drafts prepared by Chairman and Secretary in 'MS Word' format, changes shown as 'track changes'. Where specific guidance is required, WG members may be asked to vote on their preference in an annex to the draft.

4.3. Feedback from WG members within the timescales above is considered by the Chairman and Secretary and incorporated into a revised draft as appropriate. Further drafts are circulated, until no further or minimal amendments are suggested.

4.4. Sometimes, after more than one round, the document becomes too big to be easily conveyed by email. In such cases, the Secretary may break it into parts, or if that does not solve the problem, arrange for the version, complete with track changes, to be posted on the IHO website as a pdf file.

4.5. The secretary then prepares an 'InDesign' pdf file, including the final graphics and layout, which is circulated to IHO Member States (under IHO CL) for comment and endorsement in accordance with S-4 B-160. A period of three months is allowed. A final version is prepared by the Secretary, taking account of any comments, and promulgated by a second IHO CL.

4.6. The Secretary supplies to IHB by email:

- **A pdf file of the revised section.** This will be available to download and incorporate into any extant hard copies, by replacing just the revised section.
- **A pdf file of the complete S-4**, which is given a new edition or revision number 'n.n.n'.

Note: From 2011, version control numbering to identify changes (n) to IHO technical standards and specifications, including S-4, was standardized as:

- New Editions denoted as n.0.0
- Revisions denoted as n.n.0
- Clarifications denoted as n.n.n

An explanation of these terms can be found in IHO Resolution 2/2007. Unless urgent, clarifications will await inclusion at the next new edition or revision. A new edition or revision may also include minor editorial corrections at the discretion of the Chairman. Significant clarifications outside the revised section will be advised to IHO Member States in the covering IHO CL.

- **A MS Word version of the revised section (if there is one)** which has new text highlighted in colour (and deletion retained as track changes). This copy is primarily intended to assist translators, but is useful to show what has been changed. In this version, formatting and graphics have not been updated.
- 4.7. All the above are posted on the IHO Website, the Word version being password protected for use only by IHO Member States. IHB issues a CL to announce the new

edition and explain the changes, also drawing attention to any significant changes outside the revised section.

- 4.8. IHB make and retain a CD of each new edition of S-4, as an international archive of the development of S-4.
- 4.9. CSPCWG is also responsible for maintaining S-11 Part A and S-49. Any changes will be **progressed** in a similar way to the above, although the final documents may be produced in different formats from that used for S-4, eg MS Word. Any major revision of these documents may be facilitated by the establishment of a subWG.
- 4.10. Official INT1 revisions are undertaken by France, Germany and Spain. They consult within the INT1 subWG, with the aim of achieving consistency (eg in English terms and descriptions). New editions are announced by IHO CL. Notice to Mariner updates are posted on the IHO website, with links from the Publications download list and an announcement via a banner on the Homepage.
- 4.11. INT2 and INT3 are published by Netherlands and UK respectively, on behalf of IHB. Raster files are provided to IHB for display in a password protected section of the IHO Website.
- 4.12. The CSPCWG is the authority for all terms and descriptions used in official S-4 supplementary publications. This authority is delegated to the INT1 subWG for INT1, and to the producers of INT2 and INT3, except where they deem it necessary to refer to the whole WG. Terms and descriptions in S-4's supplementary publications must be strictly in accordance with the specifications agreed by IHO Member States for incorporation into S-4. In INT1 however, they may be abridged to provide only the information essential to the chart user.
- 4.13. WG members are encouraged to advise the Secretary at any time of errors or omissions noticed in publications or information messages for which CSPCWG is responsible.

CSPCWG7 – ACTION 20

Extract from CSPCWG7 record

9.1 A-400 – consequential review required on publication B-600 (Chairman)

Docs: CSPCWG7-09.1A Need to revise S-4 A400

The item was for information, to explain that S-4 Section A-400 (and B-128) needs some revision following publication of B-600. To avoid duplication, this would mainly be achieved by cross referencing. A-400 also requires a minor clarification as a result of a submission by IRCC, which had been approved by Member States (IHO CL50/10 refers).

After-meeting note: H Gorziglia (IHB, Chairman IRCC) has agreed the improved clarification proposed by CSPCWG Chairman, and this has already been included in S-4 Edition 4.1.0.

ACTION 20: Secretary to draft revised A-400 and B-128 for circulation.

(The focus is on achieving consistency, not to undertake a new review of A-400 at this stage.)

Draft revision. Deletions in green, new text in red.

SECTION 400 MAINTENANCE OF INTERNATIONAL CHARTS

A-401 GENERAL

A-401.1 Chart maintenance is the process of examining relevant data as it is received and taking appropriate action to ensure that all information required for safe navigation is incorporated in the charts in use. **Detailed guidance on chart maintenance is given in ~~See also~~ Part B, Section 600.**

A-401.2 The following terms are used when referring to the issue **and updating** of charts, and in these Regulations **are defined and explained in more detail in B-601:**

a. **A New Chart (NC) is the first publication of a nation's chart which may be additional to existing cover and will not usually supersede existing charts on a one for one/ scale for scale basis. ~~The first publication of a national chart which will either:~~**

- ~~• embrace an area not previously charted by that nation to the scale shown; or~~
- ~~• embrace an area different from any existing chart of that nation; or~~
- ~~• consist of a modernised version (in terms of symbology and general presentation) of an existing chart; or~~
- ~~• consist of the adoption by that nation of an international (INT) or national chart, first published by another nation.~~

~~A New Chart does not necessarily contain newly received information and all information contained may have been previously made available in other national charts. Reference should always be made to the Source or Zones of Confidence (ZOC) Diagram (see B-295 to B-298) which will contain details of the original survey data used to compile the New Chart. Where a New Chart does contain newly received information, the source diagram will not always reflect certain extensive changes, for example to symbology, buoyage or lights.~~

b. **A New Edition and/or Large Correction (NE, LC) is a new publication of an existing chart, containing changes significant to navigation or an accumulation of other data which will normally have been derived from more recent information. It will usually include changes additional to those previously promulgated in Notices to Mariners (NM). However, it should be noted that parts of the chart may remain unchanged. Exceptionally, ~~certain~~ a charting authority may issue a New Edition or Large Correction including only Notices to Mariners.**

The previous edition must be cancelled* and no longer be maintained by NM; this should be made clear to all users in the announcement of the NE. Once cancelled, a previous edition must not be used, in accordance with SOLAS carriage-compliance. (*Note: the sole exception is explained at B-621).

~~A new issue of an existing chart, containing amendments essential to navigation which will normally have been derived from newly received information. It will include changes additional to those previously promulgated in Notices to Mariners, and will render the existing edition obsolete. However, it should be noted that considerable parts of the chart may remain unchanged. The chart number normally remains unchanged except for the addition of INT number when the chart becomes INT. Reference should be made to the Source or ZOC Diagram (see B-295 to B-298) which will contain details of the survey data used to amend the chart. However, the source diagram will not always reflect certain extensive changes, for example to symbology, buoyage or lights.~~

~~It should be noted that a Large Correction, a type of correction used by a limited number of nations, is a particularly restricted New Edition.~~

c. A **Limited New Edition (LNE)** may be prepared if there is information which needs to be included on a chart quickly, but which cannot be promulgated by Notice to Mariners (NM) or NM Block, because of the geographical extent or complexity of the information, or where there are other reasons to produce a NE to short time scales. A LNE should be exceptional, as the user may expect a chart to be fully updated to the edition date.

d. A **Reprint** (also called **Revised Reprint**, see **A-404**) is a new print of the current edition of a chart incorporating no amendments of navigational significance other than those previously promulgated in Notices to Mariners (if any). It may, however, contain amendments from other sources provided they are not essential to navigation, **noting that** previous printings of the current edition of the chart **always** remain in force.

~~d. Chartlet / Block / Patch: A small auxiliary chart giving new details of a particular area, to be pasted on the chart by the user. Chartlets are normally included in Notices to Mariners.~~

e. **Notices to Mariners (NM)** are used for the prompt dissemination of information which is safety-related or which otherwise needs to be advised to the mariner urgently. They include:

- Chart-updating (permanent) textual NM.
- NM block (also called a Chartlet or Patch).
- Temporary (T) NM.
- Preliminary (P) NM.
- Miscellaneous notices.

More details are given in B-630 to B-635

A-401.3 Charts ~~must will~~ be maintained by the issue of New Charts, New Editions and Notices to Mariners (NM). Nations which employ the ~~Large Correction~~ **Limited New Edition** and / or Revised Reprint in their amendment procedures may also use these for international charts.

A-401.4 Each nation, in the role of either producer or printer, will accept responsibility for the operation of a system to ensure adequate maintenance of any international chart included in its national series. The required level of maintenance is determined largely by the rate at which significant new information is received. Receipt of new data is not normally predictable so it is rarely feasible to operate on the basis of regular maintenance programmes. Usually the primary factor that determines the frequency of action is rate of change of the critical data in the chart that affects safety of navigation.

A-402 NEW CHARTS, NEW EDITIONS AND OTHER CHART UPDATES: RESPONSIBILITIES ~~LARGE CORRECTIONS~~ and ~~NOTICES TO MARINERS WITH BLOCKS~~

A-402.1 The responsibility for initiating the issue of a replacement New Chart, a New Edition, or other chart update normally rests with the producer nation. Any other IHO Member State receiving data which might give rise to a chart update should immediately pass it to the producer nation for action. IHO Member States should also liaise with their national institutions to obtain relevant data in order to provide it to the appropriate INT Chart Producer Nation for action.

- A-402.2 Producer nations ~~will~~ **must** give advance notification in NMs of their intention to replace an existing chart by New Chart **or** New Edition ~~(including Limited New Edition)–or Large Correction~~. Each printer nation ~~is recommended to~~ **should** take appropriate consequential action to keep its adopted national version of the chart in line with the producer's and will request reprostat if required. **Alternatively, a bilateral arrangement may be made for the automatic supply of reprostat.**
- A-402.3 On receipt of a ~~Large Correction~~ **Limited New Edition**, a printer nation which does not use that classification may issue the amendment to the adopted version as a New Edition.
- A-402.4 Producer nations ~~will~~ **must** indicate to printer nations those charts whose ~~Large Corrections~~–New Editions include Notices to Mariners only ~~(see A-401.2b)~~.
- A-402.5 Printer nations ~~will normally place a standing order~~ **should arrange** with producer nations for the automatic supply of reprostat of NM Blocks affecting all charts adopted by the printer nation.

A-403 NOTICES TO MARINERS - PROCEDURES

- A-403.1 ~~For detailed guidance on the Notice to Mariners (NM) system, see B-630. The issue of Notices to Mariners (NM) for international charts must~~**will** be in accordance with the procedures detailed in A 403.2 to A-403.10 **below**.

Chairman's comment (not part of revision): The rest of A-403 to 404 may require some revision due to changing practices since its last revision in 2000. However, this would need further discussion and may have other impacts throughout Part A. It is not appropriate to do this in the context of slimming down A-400 in line with the already approved definitions in B-600. It may be a future work item, when we have finished the revision of Part B. A few minor editorials to reflect our standard terms will be made by the Secretary.

B-128 TERMS USED WHEN ISSUING CHARTS

The following terms are used when referring to the issue of charts. **For a full definition and explanation of the terms, see B-601.**

a. New Chart (NC)

~~b. New Edition (NE) and/or Large Correction (NE, LC): A new issue of an existing chart, containing amendments significant to navigation which will normally have been derived from newly received information. It will include changes additional to those previously promulgated in Notices to Mariners, and will render the existing edition obsolete.~~

~~A Large Correction, a type of correction used by a limited number of nations, is a particularly restricted (or partial) New Edition.~~

~~Exceptionally, charting authorities may issue a New Edition or Large Correction including only Notices to Mariners.~~

c. Limited New Edition (LNE). May also be called Urgent NE (UNE), Priority NE (PNE), NE in lieu of NM Block (NEILOB) and possibly other terms. The term Large Correction should no longer be used.

~~d. Reprint. May also be called (including Revised Reprint. The term Corrected Reprint should no longer be used.): A new print of the current edition of a chart incorporating no amendments of navigational significance other than those previously promulgated in Notice to Mariners (if any). It may, however, contain amendments from other sources provided they are not essential to navigation. Previous printings of the current edition of the chart always remain in force.~~

~~d. Chartlet/Block/Patch: A small auxiliary chart giving new details of a particular area, to be pasted on the chart by the user. Chartlets are normally included in Notices to Mariners.~~

~~See S-4 Part A-401.2 for fuller definitions of these terms.~~

CSPCWG7 - Action 22

Extract from CSPCWG7 record

9.3 Sub-surface operations (Chairman)

Docs: CSPCWG7-09.3A *Sub-surface operations*

The Chairman explained that UK is currently reconsidering what content the mariner expects on charts. The problem is that charts have a wide-range of users; submariners being one example. J Wootton (AU) quoted Lee Alexander that 'the mariner is not looking for more information, but for better information'. He had drafted some words which may be useful:

“The primary purpose of nautical charts is to provide the information required to enable the mariner to navigate surface vessels safely. Additional information to suit other requirements, such as sub-surface operations (military, research, fishing etc); natural resource exploitation; recreation; and port development, should be included on nautical charts if considered necessary by the producing authority, but this must not be done at the expense of clear portrayal and interpretation of navigationally critical information.”

This draft could form the basis of some introduction to charting in S-4.

It was also agreed not to progress a more detailed guide to chart purpose and minimum content at the present.

ACTION 22: Secretary to draft some introductory words on charting based on AU's draft and suggest a suitable place in S-4.

When we consider something as general as what content the mariner expects on charts, including all types of content, eg marginalia, topography, hydrography, then any general statement about this must go in Section 100; in fact, as near the beginning of Section 100 as possible.

I have used AU's draft as a starting point, but with alterations and addition of some very general advice which allows it to be applied to ENC (all shown in blue). The following has been seen and agreed by Jeff Wootton and could form B-100.4:

B-100.4 The primary purpose of nautical charts (as defined in SOLAS, see B-102) is to provide the information required to enable the mariner to **plan and execute safe navigation**. In constructing charts and selecting content it is therefore important to understand the mariner's need for appropriate, relevant, accurate and unambiguous information. Particular care must be exercised to avoid errors and the creation of situations where the mariner may be faced with too much information (chart clutter) or irrelevant information which causes confusion or distraction.

Additional information to suit other requirements, eg: sub-surface operations (military, research, fishing etc); natural resource exploitation; recreation; port development, **may** be included on nautical charts if considered **useful or** necessary by the producing authority. **However**, this must not be done at the expense of clear portrayal of navigationally significant information. **On paper charts, the cartographer's expertise in design and selection, biased towards safety, is essential to achieve the required clarity. The format of electronic charts allows detail additional to that shown on the paper chart, specific to navigation using Electronic Chart Display and Information Systems (ECDIS), to be included.**

CSPCWG7 – Action 25***Extract from CSPCWG7 record*****11.1 Report of subWG on INT1 (Secretary)**

Docs: CSPCWG7-11.1A Report of the INT1 subWG
CSPCWG7-11.1B Report of INT1 subWG Meeting, Cadiz 16-17 June 2010

The Secretary presented the report of the INT1 subWG, noting the various subjects discussed at the meeting in Cadiz in June 2010. He confirmed that, because of on-going discussions, no changes would be made to the entry for 'Foul' in the planned new editions of INT1

The INT1 producers confirmed plans for NEs in 2011. The DE version (the official English language version) will be published very early in 2011 because of low stock; any final comments on the new DE version must be received by 15 December 2010.

It was decided to remove the entry for Historic Wreck, which raised the question of how to prevent the INT1 number being accidentally reused. It was agreed for the time being to include a statement in S-4, with an explanation and a list of 'retired' INT1 numbers (to be maintained). This is based on the INT1 subWG rule, and agreed at CSPCWG6, that numbers should not be reused. It was also suggested that longer term this may benefit from a formal INT1 register in S-100. J Wootton (AU) agreed to raise this at the forthcoming TSMAD meeting.

ACTION 25: Secretary to add INT1 subWG ROP 8g and list of retired INT1 refs to S-4.

Draft addition to S-4.

B-151.2 A 'retired' (ie previously used) INT1 number must not be reused for a different subject, because of the possible confusion caused to references in other publications or databases. Note, however, that INT1 Section A numbers have been rearranged several times over the years.

The following is a list of known retired numbers:

E19.1	Christian cemetery
E19.2	Non-Christian cemetery
E26	Windmotor
F19	Designation of berth
G	Entire section: Topographic terms
J9	Rock
J12	Two layers (of seabed characters)
J20.1	Area with stones or gravel
J20.2	Small area with stones or gravel
L42	Buried pipeline/pipe
M40	Radio reporting points
N26	Historic wreck
O	Entire section: Hydrographic terms
P7, P8	These numbers have already been reused for something different from their original allocation
P40	Sector light on standard charts
S20-25	Decca symbols

S30-37	Loran C symbols
S40-42	Omega symbols
U1-32	Entire section: Small craft facility symbols

CSPCWG7 ACTIONS 7, 20, 22 and 25

Response Form

(please return to CSPCWG Secretary by 7 July 2011)

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CSPCWG7 Action No	Question	Yes	No
7	Do you agree with the proposed changes to the CSPCWG Procedures?		
20	Do you agree with the proposed changes to Section A-400?		
	Do you agree with the proposed changes to Section B-128?		
22	Do you agree with the proposed new section B-100.4?		
25	Do you agree with the proposed new section B-151.2?		

If you do not agree with any of the changes, please comment below or submit a marked up version of the Annex(es).

Name:

Member State: