

**11th TSMAD MEETING
11 – 12 November 2004, IHB, Monaco**

MINUTES OF THE 10th TSMAD WORKING GROUP MEETING

**1-3 October 2003
Australian Hydrographic Office – Wollongong**

Attachments

- Appendix A - List of Documents (TSMAD/10/1_D)
- Appendix B - List of Attendees (TSMAD/10/1_P)
- Appendix C - Cumulative Deferred Actions List (October – 2003)

1. Opening and Administrative Arrangements

1.1 The meeting was opened by the Chairman, Dr. Chris Drinkwater, who invited the CHRIS Vice Chairman, CMDR Robert Ward, RAN to address the meeting. CMDR Ward welcomed delegates to the meeting and on behalf of Ole Berg (CHRIS Chairman) noted the importance of TSMAD to the IHO community. The CHRIS committee has been revitalized with major changes to the IHO/CHRIS procedural and organizational models with a focus on outcomes. Work Programs within the CHRIS WG's need to be scoped, mapped, scheduled and monitored to ensure maximum impact to IHO and the user community. There is a more definitive focus on why work is being undertaken, is it justified, what are the available resources and when will work be completed. One of the main objectives of this meeting is to update and consolidate the future work program for endorsement at the next CHRIS meeting in Canada. The TSMADWG must adopt a more pragmatic approach to achieve workable solutions. When discussing work items, there will probably be differing views, interpretations and reasons for implementation amongst the members from different regions. When this occurs, the WG is to clearly document the alternatives for consistent regional interpretation and implementation rather than try and find global solutions.

2. Approval of Agenda

2.1 The annotated agenda (TSMAD/10/2) was approved with minor amendments.

3. Approval of 9th TSMADWG Minutes (TSMAD10/3)

3.1 The minutes were approved.

4. Actions Items from the Minutes of the 9th TSMAD meeting – Monaco, September 2002.

4.1 Action item at 6.2.1 Issue 1.1 - completed

4.2 Action item at 6.2.2. Issue 1.2 – deferred till C&SMWG report – see Minutes Section 9.3.1.1.

- 4.3 Action item at 6.2.6. Issue 4 – Several papers and two RENC workshops conducted – see Minutes Section 8.
- 4.4 Action item at 7.1. FAQ leader (IC-ENC) stated that FAQ emails were being processed but the established IHB web-site mechanism was not working. IHB reported that the web-based form works only with some browsers and needs access to a web scripting language. IHB are currently reviewing the capability. Email works and is the preferred method until the IHB can implement a solution towards the end of 2003. Questions raised via the FAQ will be addressed by the FAQ TSMAD panel. Issues requiring additional advice will be sought through TSMADWG meetings.
- 4.5 Action item at 8.2. New version of Appendix B1 Annex D for E3.1 produced but there are difficulties with the UKHO approving release of the document. Chairman to draft a request to the UKHO seeking release of this document for S-57 use. This draft is to be used by TSMADWG HO's to ensure a consistent approach is made to the UKHO. In subsequent discussions between the Chair, UKHO representatives and others, it was determined that a single letter from the TSMAD Chair on behalf of the TSMAD members was more appropriate at this time. Action: Chairman to write to UKHO on behalf of TSMADWG members and request release of the Annex D utility.
- 4.6 Action item at 9.2. S-58 – completed. See Minutes Section 6.
- 4.7 Action item at 10.1. S-57 3.0 CL40/2003 issued suggests 3.0 data not be released after a certain date (12/2004). Responses from HO's required by 30/9/2003 and no known responses received by the start of the meeting.
- 4.8 Action item at 12.3. AML – TSMADWG Chair wrote to 7C's and issue resolved to AML group's satisfaction.
- 4.9 Action item at 12.4. ENC Test Data Set – IC-ENC tested and found a large number of problems. TSMAD Chair, IHB and USCG agreed that test data set be revised and the UKHO asked to rectify. Corrections now 50% complete. Base data fixed and Update data still being worked on. Completion is planned for the end of the year. IC-ENC reported that some of the problems were controversial in terms of being errors or warnings as well as interpretations. The errors in the TDS do not affect Type Approval. Once the TDS has been fixed, the corrected TDS is to be supplied to manufacturers for testing to ensure the type approval process is not inadvertently affected. TSMADWG members interested in receiving the TDS error report are to contact IC-ENC directly.

5. Report from the S-57 Extensions Sub-Working Group. (Edition 4.0 Sub-working Group)

- 5.1 The chairman of the TSMAD Edition 4.0 Sub-WG noted that as most TSMAD members had attended this meeting, it would not be necessary to provide a report on the meeting. However he noted that a revised work plan and time schedule would be made available.
- 5.2 Report of the Sub-WG minutes will be available on the IHO web site.
- 5.3 TSMAD WG Chairman felt that the amount of work between meetings didn't appear to be as comprehensive as expected. Work Item leaders are to provide a revised timetable to the Sub-working Group Chairman. The revised timetable is required for CHRIS monitoring. It was also felt that the four months between meetings was too tight and that six months between sub-WG meetings is recommended.

- 5.4 Don Vachon is standing down as Chairman of Sub-WG as well as the Vice-Chairman of TSMAD – see Minutes Section 9.6.

6. Review of S58 2nd Edition

- 6.1 France acknowledged Norway and C-Map for their assistance with the preparation of the document. All previous proposals from TSMADWG have been inserted.
- 6.2 During the development of the documentation, three draft documents were submitted for discussion and the team had received good feedback (TSMAD10/6-1). A Final draft was placed on the IHO website mid-September (TSMAD10/6-2) and some feedback over the past few weeks has resulted in some minor changes being applied. Action: IHB requested to issue a CL to Member States stating that the content of S-58 was the same as the original S-57 documentation.
- 6.3 France presented the changes to the group for discussion and all changes were approved. Action: France to resubmit the agreed Final version of S-58 to the IHB for publication.
- 6.4 TSMADWG acknowledged the work by France and the small team for the latest corrections to S-58.

7. ENC – FAQ and Recommended Practices

- 7.1 This issue was previously discussed in Matters arising from the TSMAD9 Minutes (Section 4.4). It was recommended that FAQ issues and responses placed on the Bulletin Board be numbered and dated for referencing. Action: IHB.

8. Proposals/Reports

8.1 IC-ENC: Consistency and SCAMIN

- 8.1.1 Several papers submitted for discussion as follows:
- IC-ENC Consistency – May 2003 presented to CHRIS who felt that this was an extremely important issue and that urgent action was required. Results were to be presented to TSMAD to evaluate recommendations, reach agreement and provide advice on web site and the IHB to issue a CL (TSMAD10/8-1)
 - IC-ENC SCAMIN paper (TSMAD10/8-2)
 - IC-ENC Consistency Recommendations – summary of recommendations of the two previous papers and some new amendments based on a recent meeting with the RENC's (TSMAD10/8-3)
 - BSH Paper – SCAMIN (TSMAD10/9-1)
 - C-Map Response to IC-ENC SCAMIN paper (TSMAD10/8-4)
 - 7C's paper in response to IC-ENC SCAMIN paper (TSMAD10/8-5)
- 8.1.2 The Chairman stated that in evaluating the issues, TSMAD were to consider pragmatic solutions. Examples in these papers are based on real encoding situations. If the TSMAD can't resolve these issues, then TSMAD needs to consider what the future of ENC's and ECDIS is. Inconsistencies between nations have an overall impact on what the mariner sees, therefore the whole ENC concept is criticized rather than just ENC's from one nation or another.

- 8.1.3. IC-ENC presented background material on the Consistency Project. This material is summarized as follows:
- ENC's from 30+ countries are run through 2 validation tools and 3 ECDIS. Results showed major inconsistencies in the ENC data.
 - IC-ENC Consistency paper researched and consultation with BSH undertaken.
 - Issues discussed at TEWG and document revised based on views of other HO's with paper published in May 2003 (Consistency paper).
 - CHRIS chairman reported on IC-ENC Consistency paper and CHRIS/15 recommendation issued to TSMAD.
 - IC-ENC asked member HO's to implement agreed recommendations.
 - Some recommendations referred to C&SMWG for consideration.
 - IC-ENC SCAMIN paper researched, written and distributed.
 - Joint IC-ENC and PRIMAR RENC meeting mid-Sept 2003 resulting in agreement on the main recommendations.

- 8.1.4. The main issue dealt with in the research was the interpretation and use of Compilation Scale. Other significant issues include:
- Optimum" viewing scale - needs to be set consistently by all HO's and needs a reference point to which it can be related.
 - Avoid using too many M_CSCL objects within a cell.
 - Application of SCAMIN

- 8.1.5. Germany gave a short presentation on the use of Radar Ranges/Scales. General discussion outlined that:
- CSCL is the main determinant for cell loading.
 - ECDIS companies use cartographic scales, radar ranges or zooming factor for the display scale. A problem with using cartographic scales is that there is no consistent behaviour between ECDIS's.
 - The use of Radar ranges/scales are more common and agreed between ECDIS's and are therefore more promising and preferred. IMO also define a "Chart Radar" concept.
 - Zoom factor is difficult to control and not as useful.
 - Some ECDIS's use combinations of cartographic scales and radar ranges. There is a need to accommodate the Radar Scale/Range model in the S-57 Compilation Scale determination.

8.1.6 Based on the IC-ENC Recommendations paper (TSMAD10/8-3), the following recommendations were agreed by TSMAD:

8.1.6.1 It was suggested and agreed that a small Sub-WG be established to work out any details that need further refinement in the recommendations. This Sub-WG will conduct its work by correspondence and adhere to a short duration time line that is discussed in Sections 8.1.7 and 8.1.8 below.

1. **Compilation Scales** are to be based on radar range scales indicated in the Table. The sub-WG to consider refining the Table to handle larger scales and/or finer range bands (as shown in the SevenCs paper). Definition of Compilation Scale to be clarified by the sub-WG
2. **SCAMIN:** Sub-WG to determine appropriate rounding ranges to trigger.
 - First bullet point - agreed but word "must" is to be replaced by "highly recommended".
 - Second bullet point, first sub-point: Agreed.

- Second bullet point: second sub-point: change word “intermediate” to “other” or something more appropriate to provide further assistance. Agreed.
 - Third bullet point – agreed.
3. **Cell Usage bands using common Compilation Scale ranges:** IC-ENC recommended/proposed values shown in IC-ENC SCAMIN paper on page 11 in the Table under Section B – Usage Bands. (Usage Band and Scale Range columns only). These proposed values have changed since the paper was published. The Sub-WG is to define a list of Compilation Scales for the Cell Usage bands for guidance purposes.
 4. **M_CSCL objects within the same cell:** first sentence accepted. For the second sentence, Canada requested that the word “must” should be changed to “should” in “must be set”. This change was accepted.
 5. Inconsistent depiction of the same areas in the same usage band – accepted.
 6. An action to C&SMWG was discussed regarding the addition of river areas (RIVERS) and dock areas (DOCARE). This has been done but has been added to ECDIS STANDARD display. It will be part of the new edition of the Presentation Library.
 7. More liaison with neighboring HO required when creating ENCs in border areas - Accepted.
 8. Misalignment and inconsistent data at cell boundaries – Accepted.
 9. Use of standardized contours. Australia noted that this should be brought to the attention of CHRIS – Accepted.
 10. Issues dealing with leaving holes in smaller scale coverages - Accepted.
 11. CATZOC should be populated if possible - Accepted.
 12. An action to C&SMWG to implement a display method for M_SREL – Not Accepted.
 13. No gaps between cells – Accepted.
 14. There should be no overlapping data - Accepted.
 15. Five meter overlap across median line boundaries - Accepted.
 16. HOs should use ECDIS systems for viewing and evaluating their data - Accepted.
 17. UOC should be more prescriptive – Accepted.
 18. TSMAD to consider whether revision of the PS can wait for Edition 4. – for future consideration.
 19. Setting up of the small working group - Accepted.
 20. Proposal to submit the recommendations to TSMAD – Accepted.
 21. Promulgate the recommendations to all HOs via CL - Accepted.
- 8.1.7 When issuing the related ENC Encoding Bulletins, it will have to be made clear that although they are recommendations, they are extremely important encoding issues. The review group will be Norway, Finland, Sweden, UK, Australia, Canada, IC-ENC, Germany, SevenCs, France, USA (NOAA), and Denmark. Coordinator: Mathias Jonas

(Germany). Discussion held Friday 3/10 to update the recommendations. A draft of the circular letter is also to be circulated for comments together with the wording of the proposed ENC Encoding Bulletin(s). Further review to take place via email or a new closed OEF discussion forum. Proposed date for completion of the first draft is 7th November. Links are to be put in the draft to relevant working papers. The draft proposal must be sent to TSMAD members for comment with responses closing 5th December.

Action: Germany to ensure review process meets schedule.

- 8.1.8 Feedback comments will be included in the document and the revised document will be sent out to TSMAD members by 19th December for final review and acceptance after which it will be sent to IHB for distribution. Comment period will close after six weeks (30th January 2004) and no response will be interpreted as Agreed. Both the CL and the Encoding Bulletin must contain notice that the recommendations are not mandatory but “highly recommended”.

Action 1: Germany to ensure final review process stays on schedule and to issue a set of recommendations to the IHB in a format for efficient CL inclusion.

Action 2: IHB to issue CL.

- 8.1.9 TSMADWG thanked IC-ENC for their work on identifying the ENC Consistency issues.

8.2. IHO Generic ECDIS Kernel (TSMAD10/8-6)

- 8.2.1 UKHO introduced some ideas solving incompatibility problems between ECDIS by having a generic kernel. It was noted that this proposal would certainly solve many problems but would also raise many additional issues such as product liability, ownership and maintenance. It was decided that the IHO would not be able to develop and maintain such a kernel. No ongoing action.

8.3 CHRIS15 – Summary by TSMADWG Chairman (TSMAD10/8-7)

- 8.3.1 Information paper prepared due to the large CHRIS15 minutes. TSMAD Work Plan to be reviewed following this meeting and provided to CHRIS Chairman.

Action: Chair to provide TSMAD Work Plan to CHRIS Chair.

8.4. ICE-ENC MD8 Proposal (TSMAD10/8-8)

- 8.4.1 IC-ENC proposal – Agreed. As the MD document is frozen, how should this correction be handled? The Correction will be posted on the Encoding Bulletin Board. The IHB to use the change text in the proposal for wording.

Action: IHB

8.5. S-57 Edition 3.1

- 8.5.1 The Chairman outlined the status of the S-57 documentation and noted that, with the exception of two documents, all the documents were now frozen. These two documents,

Appendix A – Annex A and Appendix B – Annex C, had been published as S-62 (IHO Codes for Producing Agencies) and S-58 (Recommended ENC Validation Checks) respectively. Annex D for Ed. 3.1 is not yet available. As a result of the changes to the document structure (not content), he stressed that it was necessary to update the “readme” information file and booklet that are included with the S-57 CD ROM, and noted that all users of S-57 should be notified about these changes and the present status of S-57 documents. This information is outlined in the proposed circular letter (TS9_8-3_CL), which is to be distributed by the IHB.

Action: IHB to update readme file and draft circular letter. Final circular letter to be distributed by IHB.

9. Reports / Proposals

9.1 ENC Loading Strategy (TSMAD10/9-1)

9.1.1 This paper was covered in Section 8 along with the IC-ENC discussion.

9.2 ESSA, PSSA and ATBA (TSMAD10/9-2)

9.2.2 For information only, use as reference to the paper at Section 9.4.

9.3 C&SMWG Report (TSMAD10/9-3 and 9-4)

9.3.1. C&SMWG Chair thanked TSMAD for their cooperation with ongoing development. The following C&SMWG issues were discussed:

9.3.1.1 Item 4.8.10 Bridges

Reference 4.2 item from this meeting. Considerable discussion on options and the TSMAD decided no action required. The TSMADWG9 Minutes did not provide sufficient information for the interpretation of decision.

9.3.1.2 Item 10.2.2.2 DWRTCL

Issue relates to the word “must” that is used on digitizing direction. Clarification already provided on Leading Lines in the Encoding Bulletin Board. New entries in the Encoding Bulletin Board required for this object. Action: Text to be drafted by Australia and sent to TSMAD members for review, then to IHO for distribution.

9.3.1.3 Item 10.2.4 RCRTCL

Issue relates to the word “must” that is used on digitizing direction. Clarification already provided on Leading Lines in the Encoding Bulletin Board. New entries in the Encoding Bulletin Board required for this object. Action: Text to be drafted by Australia and sent to TSMAD members for review, then to IHO for distribution.

9.3.1.4 Item 11.9.1 FSHFAC

New entries in the Encoding Bulletin Board required for this object. Action: Text to be drafted by IHB and sent to TSMAD members for review, then to IHO for distribution.

9.3.1.5 Item 6.2 Isolated Wrecks and Obstructions

Revised CSP (conditional symbology procedure) in the new Presentation Library enables OBSTRN symbols to be displayed in shallow water areas. Presented for information only.

9.3.1.6 Item 5.4.1. Linear Depth Areas

TSMAD to monitor the reaction and C&SMWG Chair will keep TSMAD informed. TSMAD to advise HO's via CL on encoding advice as changeover date gets nearer.

9.3.1.7 Item Safety Contour and CSP DEPART02

No action – for information

9.3.1.8 Item M_SREL

Issue related to CATZOC discussion earlier in the meeting (see Minutes Section 8.1.6, Item 11) on symbology matters – no action.

9.3.1.9 Item RIVERS, LAKARE, DOCARE

Discussed earlier (see Minutes Section 8.1.6, Item 6). CANALS already in STANDARD display.

9.3.2 Addendum document

Two entries in Encoding Bulletin Board regarding WRECKS and OBSTRN areas. An error was found in the UOC and was reported in the Encoding Bulletin Board. As a result in a change to the CSP, a further correction to the existing correction in the Encoding Bulletin Board is required. It is important to inform users that the change is the result of a change in the C&S CSP. On the existing correction in the Encoding Bulletin Board, the text SUPERSEDED is to be written over the existing correction and the new text added after it. Action: IHB to prepare change text and submit to TSMAD members for review.

9.4 Australia Paper – CHRIS15 Issues (TSMAD10/9-5)

9.4.1 Six objects and attributes discussed. These objects/attributes do not have symbols in S-52 or INT 1 nor do they have encoding instructions. Action: Chairman to contact CSPCWG regards developing similar S52 and INT 1 symbology.

9.4.1.1 Offshore Wind Farms

Requirement to develop similar S52 and INT 1 symbology.

9.4.1.2 Areas to be Avoided

For information only – issue is that there is no concise symbology for these areas. A number of options were discussed including the need for a new object, new symbol, etc. What is the definition of the "Area to be Avoided"? IMO definition is required. Is it Restricted or Prohibited? Chair suggested that a TSMAD member with close liaison with regulatory authority to find out what is meant by the term. There is a current distinction between Prohibited Entry as well.

Action: USA (NOAA) to seek definition from Coast Guard. Information to be distributed via OEF.

9.4.1.3 ESSA and PSSA

IMO NAV48/INF.2 paper discussed. Information needs to be placed onto the Encoding Bulletin Board.

Action: IHB to place onto the Bulletin Board and IC-ENC will help with wording, reviewed by TSMAD members.

9.4.1.4 Archipelagic Sea Lanes (ASL)

UKHO encoded as FAIRWY with INFORM. Encoding guidance to be placed onto the Encoding Bulletin Board.

Action: Australia to word and send to IC-ENC for help with wording, then reviewed by TSMAD members. IHB to place onto the Board.

9.4.1.5 Fairways

Action: TSMADWG Chair to contact Paper Chart WG and C&SMWG with regard to developing similar S52 and INT 1 symbology.

9.4.1.6 Wrecks

For Info – CSPC WG are looking at redefining WRECKS, there may be an impact on S57 and S52. Australia awaiting response from CSPCWG Chair.

9.5 What is S-57? An Exchange Standard or a Standard?

9.5.1 The WG discussed this at length in the Sub-WG (2.9). S-57 could be considered as an Exchange Standard but is more likely to be a Standard given the current work involved through the Sub-WG's. Action: Paper to be presented by (Sub Group 2.9 Paper Chart)

9.6 New TSMAD Vice-Chairman

9.6.1 Don Vachon (Canada) has resigned from the position due to work pressures. A new Vice-Chairman for TSMADWG is required. Action: Secretary to write to CHRIS Chairman requesting that CHRIS issue a CL seeking nominations for the TSMADWG Vice-Chairman.

9.7 Sub-WG Chair

9.7.1 Don Vachon (Canada) has resigned from the position due to work pressures. A new Chairman for TSMADWG Sub-Working Groups is required.

9.7.2 Volunteers sought by the Chair. Barrie Greenslade (UKHO) offered but will require endorsement by the UKHO management. Action: UKHO to seek endorsement from management.

9.7.3 The Chair noted that TSMAD can select a new Sub-WG Chair without going through CHRIS for a CL requesting nominations.

9.8. Change of Chairman

9.8.1 Chair-elect Mike Brown (USA NOAA) thanked the outgoing Chair (Chris Drinkwater) for his role in Chairing the TSMADWG and its predecessors (DBWG and CCPWG) for many years and that the WG and the wider IHO community wished Chris all the best in his retirement. Chris was presented with gifts from the IHB and several of the Members.

9.9. Sub-WG Minutes - Review

9.9.1 Sub-WG meeting minutes were supplied to all members at the end of the TSMAD meeting. The Minutes are to be reviewed by Friday 10 October and comments sent to Canada. Work Program is also to be reviewed.

Action: IHB to post Minutes on the IHB website.

9.10 Australian Presentations

Two presentations were given by AHO staff:

9.10.1 Status of the SEA1430 Digital Hydrographic Data Base (DHDB) Project.

Mr. Mike Prince, AHO Director Charting and Information Management, gave an overview of this project that is now several years late in delivery. A critical date is set for mid-October 2003 to determine whether or not the project continues.

9.10.2 Australia's Maritime Boundaries

Mr. Kevin Slade, AHO Nautical Information Officer, gave a presentation on the state of Maritime Boundaries in Australia, with a focus on the Great Barrier Reef Marine Park. Kevin referenced CSC C/L 1,2,3/2002 regarding the lack of paper chart and S57 symbology, thus requiring AHO to develop their own national symbology. AHO identified 148 types of Maritime areas.

Discussion raised on how to handle these areas. Possibilities include:

- Defining 2 new objects with a new category of marine area;
- Canada suggested fine resolution (i.e. 148) for broader use;
- How to get new objects and attributes into S-57 given a 2006+ date for Ed 4;
- Option to create a new PS for Maritime Boundaries (similar to AML).
- Germany raised legal issue of ENC data when compared to the printed chart.
- UKHO stated that data could be inserted into the ENC, but it just doesn't have the specific information in the 3.1 data.
- Australia asked for OEF TSMAD initiation on Sub-group 2.1.

10. Date and venue of next TSMAD meetings.

10.1 Next TSMAD Sub-WG meeting to be held at the offices of NOAA (USA) in Silver Springs, during 29 March to 2 April, 2004.

10.2 Next TSMADWG meeting to be scheduled during October at the IHB in Monaco.

Action: IHB to advise.

10.3 Acknowledgement to the AHO

The WG extended their thanks to the AHO and particularly Chris Roberts for their hospitality and hosting of the meeting.

LIST OF DOCUMENTS

TSMAD 10

TSMAD/10/1_D	List of Documents
TSMAD/10/1_P	List of Participants
TSMAD/10/2	Agenda
TSMAD/10/3	Minutes of 9th TSMADWG meeting October 2002, IHB, Monaco
TSMAD/10/4	No Document
TSMAD/10/5	No Document
TSMAD/10/6-1	S-58 Second Draft
TSMAD/10/6-2	S-58 Final Draft (included Second Draft comments and instruction sheet)
TSMAD/10/7	No Document
TSMAD/10/8-1	IC-ENC Consistency paper
TSMAD/10/8-2	IC-ENC SCAMIN paper
TSMAD/10/8-3	IC-ENC Consistency paper – List of Recommendations
TSMAD/10/8-4	C-Map Response to IC-ENC SCAMIN paper
TSMAD/10/8-5	SevenCs Response to IC-ENC SCAMIN paper
TSMAD/10/8-6	UKHO Generic ECDIS Kernel
TSMAD/10/8-7	TSMADWG Chair Report from CHRIS 15 Meeting
TSMAD/10/8-8	IC-ENC Proposed Correction for MD8
TSMAD/10/9-1	Germany ENC SCAMIN paper
TSMAD/10/9-2	CHRIS15 ESSA/PSSA Discussion paper from Australia (includes asl2.jpg file)
TSMAD/10/9-3	C&SMWG (14 th Meeting) report (revised 23/9/03)
TSMAD/10/9-4	Addendum to C&SMWG (14 th Meeting) report (TSMAD/10/9-3)
TSMAD/10/9-5	Issues for TSMAD10 from the CHRIS15 minutes (summary by Australia)

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CUMULATIVE DEFERRED ACTION LIST

October 2003

At the 4th TSMADWG meeting held in Ostend, Belgium (15 – 17 June 1999), it was noted that many items raised for discussion were not of immediate significance for the next edition of S 57, or required further study. It was decided that these items should be added to a Deferred Actions List, which would be cumulative and would be distributed to TSMAD Working Group members as an attachment to the minutes. TSMAD Working Group members are reminded that deferred items from previous meeting that should also be added to the list should be sent to secretary (pad@ihb.mc). Any such additions should be accompanied by a brief resume giving an explanation of the proposal(s), as well as a reference to the national paper in which it appeared.

Deferred Actions from TSMAD/4 – Ostend, Belgium (15 –17 June 1999).

TSMAD/4/8.1A

8.1 Australian discussion paper dealing with Maritime Boundaries, proposing new Object Classes; MARARE, MARBDY, AUTHTY, CATMAR, LEGISN required further study. Australia, USA, Sweden, and Canada to carry out further work.

TSMAD/4/8.2A

8.3.4 Proposal to add VALSOU to object SLCONS (S 57 Appendix A, Chapter 1) was deferred as it requires further investigation.

TSMAD/4/8.3

8.5.4 The proposal concerning S-57, Part 2, Chapter 8.4 and Appendix B1 Chapter 6.1.1 requested a clarification concerning the way in which new records are inserted during an ENC update. It was decided that no action would be taken until more experience had been gained.

8.5.6.3 Attribute FUNCTN - It was decided that the requirement for a new attribute value "Harbor station" needed further study as it was not clear whether an existing attribute value could be used for this purpose.

8.5.6.5 Attribute STATUS – The proposal to add a new attribute value "Name written", for objects displaying their names, was deferred for further study

8.5.7.1 It was decided that the proposed clarification to Chapter 3.8 (Geometry) required further consideration.

8.5.7.3 Item 3 concerning Chapter 5.2 Volume naming. It was decided that although "Volume" is no longer used, it should be kept for historical reasons, but should be reviewed at a later date.

8.5.7.7 The proposal (concerning S-57 Appendix B1, Chapters 6.3.1 and 6.4.1), requesting that the optional fields and their multiplicities for EN and ER profiles be specified in detail required further study.

8.5.9 France requested clarification on the use of the safety contour on the shoreline. It was agreed that, although this was still an encoding requirement, it should be re examined for future editions.

TSMAD/4/8.4

- 8.6 Hydrographic Product Catalogue – Product Specification. It was decided that this paper presented some interesting concepts, but needed further development.

TSMAD/4/8.5

- 8.7.1 The proposal to add attribute MARSYS to object class Light Float - LITFLT could only be included in the next major edition of S-57, but should however be given further study.
- 8.7.2 UK stated that it was not possible to encode HORCLR ,VERCLR etc, on LOKBSN objects at navigable scales. INFORM was being used for encoding these values, and it was decided that this required further study.
- 8.7.3 UK recommended the inclusion of an attribute similar to LITVIS to encode obscured reception Radio Transponder Beacons RTPBCN. It was suggested that INFORM be used until a better solution could be found.

TSMAD/4/8.6A

- 8.8.6 Item 6 concerning Appendix B1, ENC Product Specification – Chapter 5.7 Updating. It was noted that the issues dealing with updated file extensions, were being dealt with by the Updating Working Group and needed further study.

TSMAD/4/8.7/rev.1

- 8.10 The proposal for an additional attribute “UPDATE” requires careful consideration for the next major edition of S 57.

TSMAD/4/8.8

- 8.13 The proposal for an additional attribute value for “ARCHIPELAGO” for CATSEA requires further study. The entire list of CATSEA values should be revised for the next major edition.

TSMAD/4/10.1C

- 10.1 The proposals concerning the future evolution of S-57 in light of the standards development processes taking place within the ISO/TC211, need further study. TSMADGW to solicit expert advice.

TSMAD/4/14.3

- 14.1 It was decided that the issues dealing with Archipelagic Sea Lanes (TSMAD/4/14.3) required further investigation.

Deferred Actions from TSMAD/5 – Wollongong, Australia (4-7 April 2000).

TSMAD/5/5.5

- 5.5 It was decided that the UK paper (TSMAD/5/5.5) should be deferred for consideration at a later TSMAD meeting.

TSMAD/5/5.6

5.6.2 Clauses 2.2.7. and 5.3. It was decided that any proposed changes dealing with references to “must” should be postponed until the revision of the USOC concerning this issue, had been completed.

TSMAD/5/14.1

15.1.3. It was decided that the proposal to add an attribute value to describe an approximate elevation, should be put on the Deferred Actions List.

15.1.3.3 The proposal to add a new attribute value for “building” to CATLMK was deferred.

Deferred Actions from TSMAD/6 – IHB Monaco (18, 21, 22 September 2000).

It was decided prior to the 6th TSMAD meeting, that only issues that were of a strategic nature would be considered. As this meeting was held in conjunction with the C&SMWG and an Industry Liaison meeting, there was insufficient time to consider the national proposals and it was therefore agreed that these papers would be deferred to the next TSMAD meeting. The following proposals were deferred:

TSMAD/6/13.1A All proposals in this paper were deferred.

TSMAD/6/13.2A All proposals in this paper were deferred.

TSMAD/6/13.3A All proposals in this paper were deferred.

TSMAD/6/13.4A All proposals in this paper were deferred.

TSMAD/6/13.5A Only Item 2.1 was considered by the meeting. (See TSMAD/6 minutes 13.5)

TSMAD/6/13.6A Only Items 2 and 4 were considered by the meeting. (See TSMAD/6 minutes 13.6).

Deferred Actions from TSMAD/7 – IHB Monaco (23 – 27 April 2001).

TSMAD7/7.3 Item 3.1 proposing to add a new attribute value 11 - catenary anchor leg mooring (CALM) – for attribute CATOFP was deferred for further study.

TSMAD7/7.4 Item 2 Clause 3.5.2 Proposal to change mandatory attribute for VALLMA, was deferred.
Code 107 – LITCHR – Light characteristic – proposal to change terminology for attribute values 4,5 and 6 was deferred.

Item 3 Proposed extensions for CATSEA – Strait and Gut – deferred.
Proposed extensions for FUNCTN Pier Head, Support, Breakwater-
deferred

TSMAD7/7.5 Proposal 6 dealing with ENC Product Specification Section 5.6.2 – deferred.

TSMAD7/7.7 The following proposals were deferred:

Objects: 1.7b-ANCHARE, 1.12 - BCNSPP, 1.17-BUISGL, 1.24 - BOYSPP, 1.27 -
CBLSUB, 1.39 - COALNE, 1.47 - DAMCON, 1.65 - FAIRWY, 1.95 - LNDMRK,
1.103 - MAGVAR, 1.110 - NAVLNE, 1.134 - RAILWY, 1.138 - RECTRC, 1.141 -
RESARE, 1.158 - SILTNK.

Attributes: 2.16 - CATCBL, 2.54 - CATNAV, 2.89 - CATSIL, 2.178 - RESTRN,
2.227 - TRAFIC, 2.228 - VALACM, 2.231 - VALMAG, 2.236 - VERCLR,

Item 1.4

Product Specification: 10.1 Leading, clearing and transit lines and recommended
tracks.

3.5.2. Mandatory Attributes – The proposal to add a paragraph after table 3.2 in
the ENC Product Specification was deferred. All proposed changes to the ENC
Validation Check will be dealt with after the completion of the UOC review.
(TSMAD/7/7)

Deferred Actions from TSMAD/8 – SAN HO Cape Town South Africa (3 – 7 December 2001).

TSMAD8/9.3 14. Appendix B.1 Annex A 4.7.6 Amend the second bullet to read:

“If the river is not navigable at compilation scale it must be encoded as a **RIVERS**
with a **LNDARE** or **UNSARE** underneath. The name of the river may be encoded
using OBJNAM.”

15. Appendix B.1 Annex. First section of 4.8.12: “At large scale ...”. Australia
does not support the option that a C_ASSO may also be encoded. We
understand clause 15 to imply that a C_AGGR would be more applicable if a
collection object is encoded. It is therefore proposed that C_ASSO be altered to
C_AGGR in the above section.

16. Appendix B.1 Annex A 7.1 - No mention is made of issues relating to
Appendix B.1 Annex C Check numbers 1671 and 1672.

18. Appendix B.1 Annex C - Check s 1730-1734 and 1737-1742 could be
amalgamated into one check 1730.

- 19. Appendix B.1 Annex A – 12.8.1 SIGSEQ should also be prohibited for fixed lights.
- 20. Appendix B.1 Annex C – Check 1752 SIGSEQ should also be prohibited for fixed lights, add to check.
- 21. Appendix B.1 Annex A Section 2.3. - Add the following sentence to second last paragraph after “ ... give more detailed information.” Up to 300 charters may be included in the string.
- 24. Appendix B.1 Annex A. Add paragraph about the implications of not closely following the encoding rules in this document.
- 25. Appendix B.1 Annex A. Review linear depth areas to be reviewed for a future edition of this document.
- 26. Appendix B.1 Annex A. Investigate how TXTDSC and INFORM attributes can point to a spatial location within an ENC.
- 27. Appendix B.1 Annex A. Provide further guidance on the use of SCAMIN and its relation to display scale.
- 28. Appendix B.1 Annex A. Sections 6.2.2 and 11.9.1. Add a new section on ECDIS alarms under obstructions and then cross reference 11.9.1 back to this clause 6.2.2. (See 8.Co.4).
- 35. Appendix B.1 Annex A. New clause for DATEND, DATSTA, PEREND, PERSTA with an explanation on encoding, cross reference to clause 6.6.

TSMAD8/9.4

- 3. Appendix B.1 Annex C. Amend check no 48 to: “Check for any M_SREL objects having SCVAL1 and SCVAL2 encoded that the value of SCVAL1 **has been set to a larger scale than** SCVAL2.”
- 4. Appendix B.1 Annex C. Amend check no. 541 to: “Check that SIGGRP **format** is correct for all LIGHTS, except for fixed LIGHTS, which must not have a value for SIGGRP.”
- 5. Appendix B.1 Annex C. Add a new check to section 2.2 relating to ENC Product Specification: Check that M_COVR meta objects provide exhaustive non-overlapping coverage of the whole cell.
- 6. Appendix B.1 Annex C. Add a new check to section 2.2 relating to ENC Product Specification: Check that M_QUAL meta objects provide exhaustive, non-overlapping coverage of those areas covered by M_COVR objects, with CATCOV=1
- 67. Appendix B.1 Annex C. Amend check no. 1672 to: “Check for **the occurrence of** any point object lying inside an area object of the same class and attribute values, **except for WRECKS and OBSTRN objects.**”
- 78. Appendix B.1 Annex C. Amend check no. 1752 to: Check that no LIGHTS object with a value of (1) [fixed] for LITCHR contains the attribute SIGGRP, SIGPER **and SIGSEQ**

89. Appendix B.1 Annex C. Review and amend the tables for checks 1657, 1663 & 1669.

TSMAD8/9.5 1. Appendix B.1 Annex C Add new check. Check for any UWTRC having the value (1) or nothing for EXPSON that any depth value is situated within a DEPARE of the corresponding range.

2. Appendix B.1 Annex C Change status of check 1565 from Error to Warning.

TSMAD8/9.6A 1. Appendix B.1 Annex A. Add remark to clause 2.2.3.1.

POSACC on the meta object M_QUAL applies to bathymetric data situated in the area, while QUAPOS or POSACC on the associated spatial objects qualifies the location of the **M_QUAL** object itself. (No 5).

2. Appendix B.1 Annex A. Add remark to clause 2.2.3.2.

QUAPOS on the meta object M_SREL applies to bathymetric data situated in the area, while QUAPOS or POSACC on the associated spatial object qualifies the location of the **M_SREL** object itself. (No 6).

3. Appendix B.1 Annex A. Add remark to clause 2.2.4.1.

POSACC on the meta object M_ACCY applies to non bathymetric data situated within the area, while QUAPOS or POSACC on the associated spatial object qualifies the location of the **M_ACCY** object itself. (No 7).

4. Appendix B.1 Annex C. Add new check:

Check that M_QUAL meta objects provide exhaustive, non overlapping coverage of those areas covered by DEPARE and DRGARE objects. (No 8).

5. Appendix B.1 Annex C. Add new check:

Check that the order of data in each base or update file is in accordance with Appendix B.1 clause 6.1.1. (No 9).

6. Appendix B.1 Annex C. Remove check 1509. This check is redundant and is not complete. One individual check already exists for each object class to test prohibited attributes (see checks 1639, 1640, 1647...). (No 10).

7. Appendix B.1 Annex C. Add new check:

Check that all the pointers of any collection object in a cell reference objects that exist in this cell. (No 11).

TSMAD8/9.9 1. Appendix B.1 Annex C. Add LNDARE object to the list for check 1559 (No3)

2. Appendix B.1 Annex C. Add the value 4 (covers and uncovers) to WATLEV for check 61. (No 5)

3. Appendix B.1 Annex C. Add the value 1 (partly submerged at high water) against the HEIGHT attribute and update check 1663 accordingly. (No 6)

4. Appendix B.1 Annex A Section 12.1.2 Based on the IHO definitions, substitute navigational aid for aids to navigation. (No8)