

**19<sup>th</sup> CHRIS MEETING**  
**Rotterdam, Netherlands, 4-9 November 2007**

**Report of the TSMADWG to CHRIS 19**

**Transfer Standard Maintenance and Application Development**  
**Working Group**

<b>Submitted by:</b>	Chairman, TSMADWG
<b>Related Documents:</b>	CHRIS letter No. 1/2007 (call for WG reports) List of Actions from CHRIS18
<b>Related Projects:</b>	NA

<b>Chair:</b>	Barrie Greenslade, UK
<b>Vice Chair:</b>	Don Vachon, Canada
<b>Secretary:</b>	Anthony Pharaoh, IHB
<b>Member States:</b>	Australia, Belgium, Canada, Denmark, Estonia, Finland, France, Germany, Italy, Japan, Republic of Korea, Netherlands, New Zealand, Norway, Republic of South Africa, Singapore, Spain, Sweden, United Kingdom, United States of America and Venezuela.
<b>Expert Contributors:</b>	The International Centre for ENC's (IC-ENC), PRIMAR Stavanger, Caris (Canada and Netherlands), Jeppesen (Italy), HAS Systems (Australia), IDON Technologies (Canada), IIC Technologies (Canada), Joint Geospatial Support Facility (New Zealand), MITRE (USA), SevenCs (Germany), TKartor (Sweden), Tokimec (Japan), and Transas (Russia).

**Meetings Held During Reporting Period**

1. TSMAD S-100 Focus Group 2, 27 November – 1 December, 2006, Silver Spring, USA
2. TSMAD S-100 Focus Group 3, 23-27 April, 2007, Ottawa, Canada
3. TSMAD 14, 4-8 June, 2007, Taunton, UK
4. TSMAD/CSMWG Joint Meeting, 11 June, 2007, Stavanger, Norway
5. TSMAD S-100 Focus Group 4, 17-21 September, 2007, Hamburg, Germany

## **Work Program**

Progress continues on the work items assigned by CHRIS as follows:

### **S-100 Components**

1. Feature Data Dictionary (100%) - Web interface operational.
2. Feature Catalogue (60%) – Issues with ISO may result in variance.
3. Framework (75%)
4. Application Schema Template (75%)
5. Product Specifications (75%)
6. 2D Spatial (100%)
7. 3D Spatial (50%)
8. Coordinate Reference System (100%)
9. Imagery & Gridded Data (100%)
10. Meta Data Part 1 (100%)
11. Meta Data Part 2 – Quality (100%)
12. Temporal (100%)
13. Encoding (50%)
14. Maintenance (0%)

Familiarisation version due January 2008 post TSMAD 15 (Monaco)

### **S-101 ENC Product Specification**

Review of existing product specification and S-57 maintenance document has been completed and initial findings will form the basis of a workshop for producers, users and industry in early 2008. Working Draft due late 2008.

### **S-10x Hydrographic Survey Product Specification**

Initial scoping complete. Planned to have at least two P.S. for both processed and unprocessed survey information. Processed version will be based on the Bathymetric Attributed Grid (BAG), of which the content, structure and format will remain unchanged, but the layout will be reformatted in S-100 style.

### **S-10x Digital Paper Chart Product Specification**

Work stalled through loss of 3<sup>rd</sup> work item leader and lack of resources.

## **Progress on CHRIS Action Items**

Action items referenced from CHRIS18-:

**18/6** – Chairmen CSPCWG, TSMAD and CSMWG to include “Charting / Display of Emergency Wreck Marking Buoy” in the work programmes for their WGs, as a matter of urgency.

Status – TSMAD have developed a ENC Encoding Bulletin (Annex A) describing how to encode the buoy using existing S-57 objects and attributes. Given the expected short deployment of the buoy and that its existence would normally be promulgated through NM, CHRIS is asked to advise whether the encoding bulletin should be published. Consideration should be taken of the potential delivery method of ENC updates via remote updating, enabling more prompt delivery of information than traditional methods.  
If the buoy is eventually instantiated for normal use, a more appropriate solution will be developed based on M-4 and INT1.

**18/7** – Chairman TSMAD to prepare a draft letter for IHB to forward, seeking clarification from ISO and a relaxation of the 10% rule with respect to using ISO copyright material in IHO standards, which in turn will be registered with ISO.

Status – ongoing, discussions continue at ISO TC211 level, consideration being given to presenting samples of S-100 for evaluation by ISO secretariat.

**18/13** Chairman TSMAD to coordinate the updating of the IHO Information Paper on S-57 Ed.4, taking into account the current development of S-100. IHB to subsequently post the revised paper on the IHO website and inform MS by CL.

Status – complete, new version published on the IHO TSMAD web page.

**18/17** – Chairmen of CSMWG and TSMAD to collate information on e3.1.1 matters requiring consideration by IEC, and present it to CHRIS/19 for endorsement, prior to forwarding to IEC/TC80 by late 2007, for inclusion in the next edition of IEC 61174.

Status – TSMAD complete, a new version of the IHO/IEC Test Data is due for completion mid September and will contain all the new S-57 3.1.1 objects and attributes, and also includes appropriate new tests.

## **Problems Encountered**

Progress on the main project (S-100) has been generally good, but continuing problems with the completion of some key ISO 19100 standards has been frustrating.

## **Any Other Items of Note**

Meeting minutes and documentation are posted on the IHO Web site.

The joint TSMAD/CSMWG meeting in Stavanger proved to be a useful exercise which will be repeated in 2008.

### **Conclusions and Recommended Actions**

CHRIS 18 is invited to endorse the continued activity of TSMADWG.

### **Justification and Impacts**

Not applicable.

### **Action Required of CHRIS**

The CHRIS is invited to note this report and endorse the continuance of the Work Plan.

## **Annex A – Proposed ENC Encoding Bulletin for Emergency Wreck Marking Buoy**

### **#UOC Clause 12.4.1 Buoys (BOYSPP)**

IHO Circular letter 25/2007(February 26, 2007) New IALA Emergency Wreck Marking Buoy encoding standardization, provides information about Emergency Wreck Marking Buoy standardization.

Clause 12.4.1 of Edition 2.1(April 2002) of the Use of the Object Catalogue(S-57 Appendix B1, Annex A) provides advisory encoding of BOYSPP

Encoders should note that IALA Emergency Wreck Marking Buoys must be encoded as BOYSPP. CATSPM must be encoded as (27) general warning mark. BOYSHP must be encoded as either (4) pillar or (5) spar. COLOUR must be encoded as (5) blue and (6) yellow. COLPAT must be encoded as 2 vertical stripes.

Encoders should note that IALA Emergency Wreck Marking Buoys must be encoded with an accompanying LIGHTS. The COLOUR must be (5) blue and (6) yellow. LITCHR must be (19) Flash, the SIGGRP must be (1) with SIGPER equal to 3 and a SIGSEQ set to 1+(.5)+1+(.5). VALNMR should be set to 4nm.

Encoders should note that IALA Emergency Wreck Buoys may be fitted with a standing/ upright yellow cross topmark, which must be encoded COLOUR (6) yellow and TOPSHP (8) upright cross(St George's cross)

Encoders should note that IALA Emergency Wreck Buoys may be fitted with a Racon with Morse Code "D", which must be encoded as a RTPBCN, Category of CATRTB equal to (2) racon, radar transponder beacon, and SIGGRP set to "D".

Encoders should note that OBJNAM should be populated with "IALA Emergency Wreck Marking Buoy."