3rd IHO-HSSC Meeting Monaco, 8-10 Nov 2011

Report of the Digital Information Portrayal Working Group (DIPWG)

Submitted by: Chairman, Colby A. Harmon

Related Documents: DIPWG-3 (Seoul, April 2011) meeting minutes

Related Projects: TSMAD Development of S-100 and S-101

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Canada Japan Sweden
Denmark Netherlands UK
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ECC (Norway) ESRI (USA)

Furuno Finland (Finland) GEOMOD (France) IC-ENC (UK)

IIC Technologies (Canada) KESTI (South Korea) SevenCs (Germany) T-Kartor (Finland) Transas Group (Russia)

see Annex A for full details

Meetings Held During Reporting Period: DIPWG-3, 18-22 April 2011

Seoul, Republic of Korea Hosted by Korean Hydrographic and Oceanographic Administration (KHOA)

Next Meeting: DIPWG-4, 7-11 May 2012

IHB, Monaco Hosted by IHB

^{*} Attendees of either of the last two DIPWG annual meetings. Bold text indicates those attending in 2011.

Work Program (Tasks with active work items assigned)

Task	Task / Work Item	Priority	Start	End				
Α	Maintain S-52 and its associated "Presentation Library"	Н	2002	Cont				
A.1	Resolve any problems or errors identified in S-52 and its Presentation Library as appropriate	Н	2009	Cont				
Status:	Status: ONGOING							
See sta	See status under A.4, Issue Maintenance Document No. 8 of S-52," below.							
A.4	Issue Maintenance Document No. 8 of S-52.	М	2009	2010				

Status: ONGOING

Maintenance Document No. 8 (MD*), (Deferred Amendment 9) has been completed and will be released in November 2011.

M8 includes:

- Corrections to Presentation Library look-up tables to change display priorities for some point features and to correct the portrayal of radio tower landmarks
- Extension to Conditional Symbology Procedure to enhance portrayal of 360 degree major light sectors
- Correction to Conditional Symbology Procedure to harmonize portrayal of entry prohibited restricted areas with INT 1
- Extension to Presentation Library Colour tables to provide additional colours for non-charted items.

Task	Task / Work Item	Priority	Start	End
F	Assess the impact on S-52 C&S regulations of other IHO standards.	М	2002	Cont
F.2	In close liaison with TSMAD, set up a portrayal register within the S100 registry.	Н	2005	2012

Status: ONGOING

Portrayal and Symbol model design continues to be refined through correspondence and meetings with industry subject matter experts. The UKHO will be using the experience that they gained through their development of the Feature Concept Register and a Feature Catalogue builder to create the Portrayal Register and Portrayal Catalogue builder capability based on these models.

E 3	Assist TSMAD in identifying which aspects of S-52 should be incorporated	Ц	2009	2010
1.5	into S-100 and S-101	- 11	2003	2010

Status: ONGOING

An ad hoc correspondence group, made up of DIPWG members, will be refining the initial extraction of the pertinent sections of S-52 to remove redundant text and reorganize the content as appropriate. The final draft will be submitted to TSMAD and DIPWG for review as part of the process of writing the portrayal sections of S-100 and S-101.

Task	Task / Work Item	Priority	Start	End
J	Harmonisation with CSPCWG.	М	2005	Cont
J.1	Liaise with CSPCWG.	М	2009	Cont

Status: ONGOING

DIPWG is continuing to monitor CSPCWG activities through a review of ongoing CSPCWG correspondence, and interactions with the CSPCWG vice chair, Jeff Wootton, who is also a member of TSMAD/DIPWG. Some possible issues to investigate, prompted by CSPCWG include the encoding and/or portrayal of features such as cable and pipeline tunnels, wave energy devices and farms; shellfish beds; diving prohibited areas, differentiation of active and disused production platforms.

Task	Task / Work Item	Priority	Start	End				
K	Maintain the DIPWG bulletin and FAQ section on the IHO website	М	2005	Cont				
K.2	Maintain Chart Presentation Bulletins on the DIPWG page of IHO website	М	2008	Cont				
Status:	ONGOING							
This wo	rk item addresses the routine posting of CPBs on the IHO website.							
K.3	Review and revise other informational on the DIPWG page of IHO website L 2008 Cont							
Status: ONGOING								
This work item addresses the continual improvement of the DIPWG page on the IHO website.								

Task	Task / Work Item	Priority	Start	End
L	Investigate enhancing the appearance of existing traditional paper chart symbols used in ECDIS by modifying their size, shape and colour.			
L.1	Investigate enhancing the appearance of existing traditional paper chart symbols used in ECDIS by modifying their size, shape and colour.	L	2009	Cont

Status: ONGOING

An ad hoc correspondence group, made up of DIPWG members, will be investigating the need for simplified symbology in S-101. This same group will also recommend enhancements to the existing traditional symbol set in S-52 for use in portraying S-57 specified ENCs.

Task	Task / Work Item	Priority	Start	End
М	Develop symbology for portrayal of nautical publications in ECDIS			
M.1	Develop symbology for portrayal of nautical publications in ECDIS.	М	2009	Cont

Status: ONGOING

Provided feedback on a "MPA (Marine Protected Areas) Portrayal Discussion Paper" that SNPWG provided. DIPWG continues to monitor SNPWG activities as they refine the MPA product specification. Will continue to advise and assist SNPWG as needed. Development of an MPA test dataset will be a valuable tool in assessing various portrayal strategies in the future.

Work Program (Tasks with no active work items assigned)

There are no active Work Items assigned or proposed for the Tasks listed below.

Task	Task / Work Item	Priority	Start	End
В	Contribute to IEC TC80/WG13 symbol harmonizing work	Н	2002	2008
D	Introduce new website based recommendation service for good application practice of S-52	М	2002	2008
Е	Contribute to harmonised rules for ENC loading strategy, use of SCAMIN and overscale indication.	М	2002	Cont
G	Improving ENC Consistency/loading strategies.	М	2006	Cont
Н	Harmonisation of pick report presentation	М	2005	2008

Progress on HSSC Action Items

HSSC Action No. Subject		Action
20/22	Pick report	DIPWG to further develop pick report as proposed in CHRIS20-06.3A.

Status: ONGOING

The paper, "<u>Draft Specifications for Implementing the Cursor Enquiry and Pick Report in ECDIS</u>" was presented at the April 2011 joint TSMAD22/DIPWG3 meeting. The ensuing discussion led to an action for an ad hoc committee to write a deferred amendment (for S-52 Maintenance Document 9) to specify the minimum requirements for cursor enquiry and pick reports. This will also be the basis for the specification of pick reports in S-101.

Problems Encountered

None

Any Other Items of Note

None

Conclusions, Recommended Actions and Justifications

Recommendation: Adopt the revised DIPWG Work Plan contained in Annex B.
 Justification: Details of each task item are described in the remarks section of the work plan.

Action Required of HSSC

The HSSC is invited to:

- a. endorse the new DIPWG Work Plan as shown in Annex B.
- b. note the fine work that has been accomplished by the DIPWG team and the excellent assistance provided by our TSMAD partners.

Annex A

DIPWG-3 PARTICIPATION

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DIPWG Proposed Work Plan – October 2011 to October 2012

DIPWG Tasks

- A Maintain S-52 and its associated "Presentation Library" (IHO T3.3.1 refers)
- B Contribute to IEC TC80/WG13 symbol harmonizing work (IHO T3.3.3 refers)
- C Monitor Relevant International Standards (New Task)
- D Introduce new website based recommendation service for good application practice of S-52 (IHO T3.3.1 refers)
- E Contribute to harmonised rules for ENC loading strategy, use of SCAMIN and overscale indication
- F Assess the impact of other IHO standards on S-52 C&S regulations
- G Improving ENC Consistency/Loading strategies
- H Harmonisation of pick report presentation
- J Harmonisation with CSPCWG
- K Maintain the DIPWG bulletin and FAQ section on the IHO website
- L Investigate enhancing the appearance of existing traditional paper chart symbols used in ECDIS by modifying their size, shape and colour.
- M Provide technical assistance on Portrayal for S-10x related product specifications. Develop symbology for portrayal of nautical publications in ECDIS (Task scope broadened)

Task	Work Item	Priority H-high M- medium L-low	Mile- stones	Start Date	End Date	Status P-planned O-ongoing C-Completed	Contact Person	Affected Pubs/Standard	Remarks
A.1 (2.4.1)	Resolve any problems or errors identified in S-52 and its Presentation Library as appropriate	Н		2009	-	0	Colby Harmon Julia Powell	S-52	Continuing Work Item This addresses the routine maintenance of S-52.
A.4	Issue Maintenance Document No. 9 of S-52.	М		2011	2012	Р	Colby Harmon	S-52	It is expected that MD8 will: - Minimum requirements for cursor enquiry and pick reports - Add "Unknown" as a valid enumerate value in the Presentation Library Look-up Tables to differentiate between unknown and unpopulated (null) attribute values Update Section 15 of the Presentation Library, which lists some older symbol names for symbols that had been replaced with newer versions and incremented symbol numbers in the current S-52, Annex A, Addendum.
A.5 (2.4.2)	Publication of a new Presentation Library Version 3.5	М		2012	2014	Р	Colby Harmon	S-52	New Work Item DIPWG has issued two maintenance documents against the current Presentation Library 3.4 (there will be three with the addition of MD9, described in A4 above). In light of the fact that S-57 and S-52 will be valid standards during this work program period, it is recommended that a new version of the Presentation Library be issued to incorporate the existing maintenance documents and any additional information to clean up the Presentation Library for the transition period to S-101.

C.1 (2.4.7)	Monitor Relevant International Standards	L	2011	-	0	Colby Harmon Julia Powell	S-52 S-100 Portrayal Register	New Work Item With the increased inter-dependencies between various International Standards, such as IEC 61174, IEC 62288 and the ISO 19100 series of standards, it is vital that DIPWG monitor the activities of these standards bodies and to advise HSSC if there is a need to update the relevant IHO standards to incorporate changes from external standards bodies.
F.2 (2.4.4)	In close liaison with TSMAD, set up a portrayal register within the S-100 registry Maintain S-100 Portrayal	н	2005	2012	0	Colby Harmon Julia Powell	S-52 S-100 Portrayal Register	Continuing Work Item This work item will refine and expand the initial development of Portrayal and Symbol Models by incorporating clarifications, corrections, and extensions as needed for the community of users that have implemented the S-100 data model.
F.3 (2.4.3)	Assist TSMAD in identifying which aspects of S-52 should be incorporated into S-100 and S-101 Specification.	Н	2009	2012	Р	Colby Harmon Julia Powell UKHO	S-100 S-101	Continuing Work Item Develop the S-100 Portrayal Section, the S-101 Portrayal Section and the associated S-101 Portrayal Catalogue. This will include incorporating relevant portions of S-52.
F.4 (2.4.5)	Maintenance of S-101 Portrayal Component and Portrayal Catalogue	Н	2012	-	0	Colby Harmon Julia Powell	S-101 S-100 Portrayal Register	New Work Item Maintain S-101 Portrayal by incorporating clarifications, corrections, and extensions as needed for the community of users that have implemented S-101.
J.1	Liaise with CSPCWG	М	2009	-	0	Colby Harmon Jeff Wootton	S-52 S-100 Portrayal Register	Continuing Work Item This work item will review and address, as appropriate, any changes in paper chart portrayal standards, in close coordination with TSMAD.
K.2	Maintain Chart Presentation Bulletins on the DIPWG page of IHO website	М	2008	-	0	Colby Harmon Michel Huet		Continuing Work Item This work item addresses the routine posting of CPBs on the IHO website.
K.3	Review and revise other informational pages on the DIPWG page of IHO website	L	2008	-	0	Colby Harmon Michel Huet		Continuing Work Item This work item addresses the continual improvement of the DIPWG page on the IHO website.

L.1	Investigate enhancing the appearance of existing traditional paper chart symbols used in ECDIS by modifying their size, shape and colour.	L	2009	-	0	Colby Harmon	S-52 S-100 Portrayal Register	Continuing Work Item Enhancing existing S-52 symbology to take better advantage of modern ECDIS display capabilities.
M.1 (2.4.6)	Develop symbology for portrayal of nautical publications in ECDIS. Provide technical assistance on Portrayal for S-10x related product specifications.	М	2009		0	Colby Harmon		Continuing Work Item Assist SNPWG in developing symbols and associated rules and tables to facilitate the portrayal of nautical information Increasing use of S-100 by both IHO and non-IHO working groups has called for DIPWG providing technical assistance to these groups on the development of portrayal catalogues for S-100 based product specifications. Currently, DIPWG is assisting SNPWG in the development of S- 10x Marine Protected Area portrayal