

15th Standardization of Nautical Publications Working Group (SNPWG) Meeting 12 - 16 November 2012 – FTA Helsinki

Annex A: List of Action items
Annex B: Agenda
Annex C: List of Attendees
Annex D: Updated SNPWG Work Plan

Item

1. Opening and administrative arrangements

1.1 Opening remarks

Jens SCHRÖDER-FÜRSTENBERG opened SNPWG15 by welcoming new and returning members. He continued by greeting Takeshi OHHARA, Myungwon PARK, Niklas HAMMARKVIST, Richard DOBSON, and James RAPAPORT.

Jan NYHOLM and Jens discussed meeting logistics. Jan also gave a briefing about the FTA including an overview of the FTA's mission and the organizational structure. Jens also discussed some rearrangements of Agenda to accommodate a teleconference with NOAA on Thursday.

Jens also discussed succession plans and the election of the SNPWG going forward. Tony PHARAOH will run the election process including the nomination process and the election will take place on Thursday.

2. Approval of Agenda

With a few minor adjustments the agenda was approved. The paragraph number below refers to the agenda Item numbers. There is one other item to add to the agenda (Item 8 on Tuesday) which is short presentation by Takeshi OHHARA about the development of a new publication production system by Japan.

3. Minutes of SNPWG 14

The Final Minutes of SNPWG 14 were approved as circulated.

3.1 Corrections

No corrections were proposed for the Minutes of SNPWG 14.

3.2 Review of Action Items from SNPWG 14

Pelle AAGAARD recommended that SNPWG create a separate list of Action Items.

Action Item 14/1 – David ACLAND

Complete.

Action Item 14/2 – Eivind MONG

Complete.

Action Item 14/3 – Tony

Complete.

Action Item 14/4 – Jens

Complete.

Action Item 14/5 – David

Complete.

Action Item 14/6 – Eivind

Complete.

Action Item 14/7 – David

Complete.

Action Item 14/8 – David

Complete.

Action Item 14/9 – Jens

Complete.

Action Item 14/10 - Tony

Ongoing.

Action Item 14/11 - SNPWG

Depends on 14/10 progress.

4. Report on HSSC4

4.1 Jens discussed his thoughts about the various working groups reporting to the HSSC. HSSC told everyone that there is a very tight window or time schedule that we are all working towards. Jens said each group presented work results starting with TSMAD. They discussed progress and work on the registry. New ideas about virtual AIS and magnetic variations were brought forward for inclusion but HSSC rejected the latter.

4.2 The representative from the IEC discussed the new timeline that must be followed and that S-100/101 must really be pushed to meet the new schedule of the 2015th edition – 2020 is the next opportunity.

4.3 Display and portrayal is a real problem because of internal capacity. IHO said there is money available for contractors to assist. Portrayal needs to be complete by May or June of 2013 so it can be used for testing and evaluation. S-64 will be based on the outcome and the new version of S-64 must be forwarded to IEC for further consideration. This needs to be completed as fast as possible.

4.4 The SNPWG progress is dependent on other working groups' progress. We should not focus only on the ECDIS displays but other devices as well including back-of-bridge devices. Eivind reminded the group that SNPWG should change the Terms of Reference if we pursue this direction.

4.5 Jens reiterated that the most important and interesting discussion was from the IEC and the new schedule. There was also some discussion about how the IHO is doing and the responses ranged across the entire spectrum from great to unsatisfactory. We also need to maintain a close liaison with IALA.

4.6 The next HSSC meeting is scheduled for 4 – 8 November of 2013 possibly in Shanghai, China.

4.7 Tony added that since all the WG's were present, it is good to listen to all the discussions. He thought that it was very important that we need a good workplan and a reasonable schedule. Subject to the approval of HSSC we need to execute our workplan according to the schedule.

5. TSMAD 24 Report

Eivind discussed topics of the last TSMAD meeting in IHO, Monaco. Among the items discussed were:

- Nothing can really be done with our material until display rules are established with respect to portrayal.
- Discussion of additional layers was under consideration
- SNPWG needs to solicit input from OEM's about the use of GML
- Joint paper by Jeppesen and UKHO discussing the use of GML only - not 8211.

XSLT will be the language to be used for the "updateable presentation library" but there was no solution on how to implement this yet.

6. MPA Product Specification

6.1 MPA ProdSpec Status

The product specification is nearing completion but there are some items that need to be finalized including the diagram and a few other topics such as Quality, Exchange Set and Support Files.

Jeppesen created the graphical and a textual output for the MPA area to demonstrate the complexity of this particular product even though it was expected to be a simple product.

Tony gave a briefing on S-57 about displays, data updates and how OEM's add functionality to an ECDIS. He contrasted that with the vision of S-100 where changes will be much easier to implement. New features will be agreed upon by, in our case, SNPWG and the display rules will be updated. All OEM's need to be able to read the feature and portrayal catalogs and test the new features for the system. Changes will be sent to ships as XML files while they are at sea for immediate use by the mariner.

6.2 MPA data quality attributes

Jeppesen wrote a proposal for N-Pub quality to the DQWG and we are awaiting the outcome.

6.3 MPA feature catalog

In the absence of the Registry Feature Catalog Builder, SNPWG has developed an XML feature catalog.

6.4 Data Capture and Encoding Guide

The first draft of the guide was modeled on what was accomplished by TSMAD. The group offered corrections while reviewing and editing the document. SNPWG has developed the draft document for MPA.

6.5 MPA Progress and problems encountered with the test data sets

Action Item 15/1 – Jens will contact Raphael MALYANKAR to provide images of the MPA test areas and provide supplementary text to help explain the MPA progress to date and how it was a difficult but helpful exercise. The results will be presented on the SNPWG IHO Web site.

6.5.1 NOAA Areas

Raphael started work by creating a linked spreadsheet based on the model to create an output. The Northern Right Whale MPA information contains overlapping sea areas with multiple and sometimes conflicting regulations. The system had to be tricked into creating a primitive coastline but this solution means that there will need to be duplicate sets of data concerning the coastline. There is no solution to this problem as yet. The template that was created was a very helpful tool.

The Northwest Hawaiian Island area had other problems including all the pages of text (12 pages of text in all) that needed to be included.

6.5.2 Brazil Area

This information was provided by NGA and Brazil and was not as challenging as the first 2 areas. But again, there were issues creating the geometry of the area and overlapping sea areas.

6.5.3 Micklefirth Area

No discussion at this point. Micklefirth mapping underlined the experiences gained with the other areas.

7.0 Bringing Land and Sea Together (BLAST) Report

Most of the focus was on Work Package 4, Navigating the North Sea. WP4 started with a short movie. WP4 was known to the group as the “SNPWG Work Package”

There were six main parts of WP4:

- 1) Develop a tool to check inconsistencies in ENC's - The ENC checking tool provides a list of inconsistencies, not a solution. The output is an XML file.
- 2) Harmonize maritime information products and give input to the IHO – The steps are to identify the information, review and extend SNPWG model, mapping, convert data and create transfer set and validate the transfer set.
- 3) 3-D navigational aid displays – 3-D is not the ultimate goal. It is meant to aid the display for example in foggy conditions, the display should identify aids and lights but not other landmarks such as cranes. This is very computational intensive and very difficult to portray.
- 4) Change detection of topographic ENC features in harbors.

- 5) Maritime data collection tool – An online tool that links Norway, Denmark and Germany and makes it easy for trusted sources and the mariner to report discrepancies.
- 6) Digital Mariners' Routing Guide – based on the SNPWG model and all the tools were developed from information on the SNPWG Wiki.

Questions:

Tony from the IHB asked how can we leverage this work to further the goals of SNPWG?

More detailed presentation and discussion of the Digital Mariners's Routing Guide. Access to detailed information is available by menus. There is a search function and filtering is available to reduce clutter and information overload. ENC's are actually integrated into the product. The system is web-based and for demonstration only so it is not terribly robust.

Summary

- Harmonized routing guide information
- Supports voyage planning
- Enables the integration of various sources to facilitate navigation
- Level of detail for captured navigation information may vary from port to port
- Provides Navigation Officers an enhanced information system for voyage planning

More detailed presentation and discussion of the Maritime Data Collection System. This is a crowd-sourcing data collection system, preferably trusted sources such as Harbormasters and Pilot Associations. The system has an audit trail built-in to help evaluate the entries. After login, the user can either select the ENC by number or by geography. The user can submit items anonymously but that will need to be faxed to the Hydro Office. When logged in, the report is attributed to the user and the user can submit changes to be evaluated entry directly. The user selects a feature or an attribute and submits a correction or an update for evaluation and inclusion onto the chart or publication.

Both these systems were based on work conducted by the SNPWG.

Pelle gave a presentation on results of the BLAST Project including the participants, budget and the deliverables. He gave a brief description of all six work packages.

8. Japanese plan for new production system of Sailing Directions

The intent is to have a Sailing Directions database that will support 3 streams of products;

- 1) The traditional paper product (NP1)
- 2) An e-book format that will also be presented in PC, Tablet Smartphones, etc. (NP2)
- 3) The ECDIS compatible format based on the SNPWG model (NP3).

The project is going through the budget process now. The estimated length of the project is 5 years.

9. Data Quality Working Group Report

Eivind gave a briefing about progress on the DQWG from the last meeting held in Silver Spring, MD in July 2012. The issue of data quality in publications is not a priority now – the current focus of the group is on bathymetric data.

Jens gave a summary of a paper submitted by Jeppesen focusing on source-of-information accuracy. This paper outlines the case for source information attributes in nautical publications information encoded in S-100 compliant formats and describes the source information model proposed for nautical publications information datasets in the S-100 family.

For ENCs, passing on source information to the end-user (the mariner) is not as important, because quality assessments are nearly all done as part of the production process and the results provided to the end-user (mariner).

- Much of the data in ENCs is numeric (coordinates and depth/height values). The quality of the data is important rather than the source, and quality assessments are communicated to the mariner in the form of confidence parameters (S-100 data quality model) or, in S-57, categorical attributes (CATZOC, QUAPOS) and accuracy estimates (POSACC, SOUACC).
- Data quality can be objectively evaluated (because the data is numeric and objectively observed in surveys).
- Given all the above, in a small number of features there may still be quality notes such as “reported” annotation associated with a significant feature which has not been surveyed, or reported dates (for unverified obstructions, and for construction).

Nautical publications, on the other hand, are supposed to contain information which cannot be easily represented in charts. Often this is non-numeric data. Quantification of quality assessments is more difficult especially as it pertains to individual chunks of information, and passing on source information to the end user is therefore an important part of indicating data quality.

The proposal is to define a complex attribute to replace S-57 SORIND (Source Indication), with subattributes such as reported date, country, authority source, etc.

Action Item 15/2 – Eivind and James will forward to TSMAD for consideration to change date information by values and text

Country Code needs to be replaced by a 2-letter code used by S-57.

Note there may be a harmonization issue between TSMAD and SNPWG.

Action Item 15/3 – Richard will investigate other NP sources beside the five listed in the model. Richard will also be the contact person for other sources for the rest of the SNPWG. Report to be given by next meeting.

Action Item 15/4 – Jens will add the complex attribute to replace S-57 SORIND (Source Indication) to the Wiki for deliberation and validation by the members.

For the new members of the team, Jens conducted training on how to populate and post comments on the SNPWG Wiki. The example he used was the complex attribute Source Indication.

10 SNPWG representation on other IHO bodies

Deliberations opened with the amount of contact with other IHO bodies since SNPWG12. The consensus was that there was very little formal contact to date.

Register Manager	Vacant
Executive Control Body Members	Vacant
Domain Control Body Members	Vacant
Submitting Organization Representatives	Vacant

Action Item 15/5 – Since there was very little contact over the past 2-1/2 years, The SNPWG Chair will act as the point of contact between SNPWG and other IHO bodies. This needs to be included in the liaison paper to TSMAD.

Action Item 15/6 – For SNPWG work to proceed, it needs several important items from TSMAD. SNPWG needs to include the following items in the liaison paper to TSMAD;

- Registry sandbox
- Portrayal – S-100
- Feature catalog builder
- Changes to GFM
- Product Specification template

SNPWG also requests a written status report from TSMAD before the start of SNPWG16.

11.1 Wiki work; Open and reviewed several items

Reviewed several items and provided a demonstration for new users.

11.2 Revision of Wiki entries and their importance for potential products

Postponed to SNPWG16.

Action Item 15/7 – Jens put this on the agenda for SNPWG16.

12 Cooperation with TSMAD DCEG Group, items to discuss

SNPWG must develop a paper to TSMAD stating that the SNPWG Wiki contains more information about communications and that the paper needs to refer to the relative Wiki address. Eivind checked if the communication channel is relevant to more features than are contained in S-57 such as bridges and locks.

The temporal model was discussed and SNPWG has no further comments. If anyone has additional comments they would like to add, they will need to contact Eivind before the next TSMAD meeting.

Action Item 15/8 - Develop paper to TSMAD stating that the SNPWG Wiki contains more detailed information about communications.

13 MPA Portrayal

Continuing the discussion about portrayal of MPAs and the interaction with other IHO working groups.

13.1 SNPWG Paper, Outcome from DIPWG and the SNPWG response

The discussion opened with the 19 April 2012 letter to TSMAD24 and DIPWG4. The portrayal issue has not been resolved but the proposal to TSMAD and DIPWG was to have a “T” or a dashed line symbol in green.

Action Item 15/9 – Await the next joint TSMAD/DIPWG meeting in June 2013 and the outcome of DIPWG portrayal work. Eivind will liaise with TSMAD/DIPWG and report back to the SNPWG. Note: SNPWG cannot proceed with the MPA Product Specification until this is resolved by DIPWG and approved by HSSC5 in November 2013.

The discussion continued with the TSMAD/DCEG paper called Light List Number. At the prior DCEG subwg meeting, one of the outstanding actions was to create a new attribute for light list number. The subwg had provisionally decided that it just needed to be a simple text attribute, however, one of the actions was to check with SNPWG as we have modeled the same attribute as a complex.

This proposal is for TSMAD to adopt the SNPWG modeling for light list number – with some minor modifications.

Tony and Eivind made a motion that it was very important to have a unique international registry for lights. The keepers of the registry may be IALA and the registry could be edited by any nation. They reminded everyone that the UKHO has already started to work on an international registry. The national number should be the unique number, for example DK12345 would be Danish light number 12345.

Action Item 15/10 – Jens and Tony will include in the liaison paper to TSMAD the proposal concerning international light numbers and the creation of an international registry.

13.2 How to Proceed

Tony said that SNPWG does not have to complete the model but we can complete this as a web service model or a web feature which can be used in other modalities. Tony offered the use of the IHB to host the service on one of their servers if it of use to an end user. This would be a bridge product between today and the S-100.

Action Item 15/11 – Tony and James will investigate the possibility of taking the MPA work completed to date and creating a web service as an interim solution. Tom LOEPER needs to check with NOAA leadership if this is still important as well as production system and tablet application contractors to see if this is currently feasible.

14 Next Products

14.1 Lessons learned from MPA

14.2 Development of a ProdSpec production template

14.3 Discuss order of products

14.4 Proposed Revisions to the SNPWG Work Plan

Tom discussed the issues of revising the work plan. The primary objective of the SNPWG is to develop guidelines for the preparation of nautical publications, in a digital format compatible with

an ECDIS. Tony discussed the differences in the SNPWG TOR and the items proposed by NOAA. Any new item we introduce such as SD, Radio Signals or List of Lights would be scale independent. IALA would be interested in having a standard XML format to code information so the HO's could easily assimilate it into their products. These products could be used either back of bridge or incorporated into a paper publication. The standardized data format and the standard model based on S-100 are simple to integrate now and will be accepted by TSMAD. If we could get the owners of the data to maintain the data, it would be something that does not need to be handled by the HO at all. Richard said that we should not assume that everything in Nautical Publications should be displayed on Front of Bridge ECDIS systems. Some information may be better suited to Back of Bridge displays so that the Officer of the Watch is not overloaded with information. Michael NEUMANN said that customers in his training classes are now asking for electronic products that are updated daily as opposed to the paper product that is updated on a much longer time-scale. The group also discussed using the ideas from the BLAST project.

The discussion about updating the Work Plan continued by revisiting the work started in SNPWG 12. The discussion focused on domain specific products that are created once, stored and accessed many times by a variety of publications. In other words we need to determine the basic elements of the various products and then start to collect the items to create the various products. We need to focus on the components first and then construct the various products like SD's or Routing Guides from the individual components. We need to focus less on the product now and more on the component.

	3. Sailing Directions	1. Radio Signals	2. List of Lights	Mariners Handbook	Distance Tables	Routing Guides	Tide Tables	Tidal Stream Atlases
Anchorage	x							
Approach	x	x				x		
Regulations	x	x		x		x		
Restrictions	x	x		x		x		
Recommendations	x	x		x		x		
Nautical Information	x	x		x		x		
Distances between ports					x			
Quarantine	x	x		x				
Ice information	x	x						
Tides	x					x	x	
Water Level	x					x		
Currents	x							x
MPA	x							
Climate	x			x		x		
Country information	x							
Pilotage	x	x				x		
Marine Service	x	x				x		
Navigational aids	x	x	x			x		
Waterways	x					x		
Terminals and Services	x	x						
Harbours (HOs)	x	x						

SOLAS V does not specifically say what is required for carriage but it does give examples like charts, tide and current tables and list of lights. This is coming from a paper book and it discusses specific paper publications. It gets more confusing when you discuss the digital world since there are not specific paper products any more. We started with a basic matrix listing components on one axis and products on the other axis. The products can vary from country to country but the components will be the same for every country.

The discussion continued on how to proceed with the SNPWG Work Plan. The first idea was to model the List of Lights because on first glance, it looks simple and achievable. Eivind added that this was more difficult than first glance because it concerns IALA, ENC's and N-Pubs.

Action Item 15/12 – Chair/Vice Chair will add an item in the TSMAD liaison paper regarding Lights and Navigation Aids concerning the overlaps between the work of SNPWG and TSMAD. SNPWG suggests a cooperation on the data model to ensure that it supports the needs of both Nautical Publications and ENCs that when harmonized, the model be forwarded to IALA with the intent of IALA being the data stream originator and N-Pubs and ENC's using the data stream generated by IALA.

The prioritized list of SNPWG work items was debated at length. SNPWG wanted to start on a simple product and one that is compatible with an ECDIS moving to more difficult products as

we gain experience and expertise. The entire group agreed that the most difficult product to build will be Sailing Directions and that needs to be the final product. As was discussed at length, SNPWG needs to move away from the traditional thought process of “creating and maintaining paper publications” to creating smaller products like a regulation or pilotage data streams that can be incorporated in an ECDIS, paper publications and other electronic devices.

An S-100 Product Specification contains

- Product Description containing the encapsulation format, the
- Portrayal Catalog
- Business Rules
- Data Capture and Encoding Guide
- Feature Catalog containing the Application Schema

15 Next Product Specification (Radio Signals)

15.1 Presentation of potential content

Alain ROUAULT presented a paper discussing the progress made on Jussland radio signals. SHOM created the Jusslandian List of Radio Signals to use as a test area for SNPWG. The list of Radio Signals and Alain’s presentation are posted on the SNPWG website. Tony commented that this will give SNPWG a good idea of outputs that we need. Up to this point, SNPWG has only worked on the input side of the model.

15.2 Discussion of how to proceed

SNPWG needs to develop a test data set and derive the UML diagram after the test data set is complete. This is an important lesson learned from the MPA development activities. The most difficult lesson SNPWG learned from the MPA exercise coding was the difficulty mapping complex attributes and the amount of time needed to complete the mapping.

The intention is to stabilize the work Alain and SHOM have done and add any other items (via Alain) to complete the document. James added that maybe SNPWG needs to put some limits on the exercise (no LORAN-C for example) since this is such a large task. SNPWG reached a consensus to complete the paper before the next meeting in 2013. The focus of this exercise is on the mariner – not other users.

Action Item 15/13 – All review the current Jussland Radio Signal example and add information as appropriate. Alain will act as coordinator.

16 Elections of the Chair and Vice Chair

Tony talked about the execution of the last election and why it was nullified. Jens is currently the Acting Chair. The two options are to accept the results of the last election and the other one was to ask if there was anyone else that wanted to be included in the election process.

The consensus was to accept the results of the last election and appoint the Secretary on a meeting by meeting basis. Jens was confirmed as SNPWG Chairman and Tom was confirmed as SNPWG Vice Chairman. Tom agreed to act as Secretary for the remainder of the meeting. There was also a motion to send an official letter of appreciation to David for his years of service as the Chair of SNPWG.

Action Item 15/14 – Tony will develop the letter.

17 Work plan for the SNPWG; reflection of Hydrographic conference and HSSC4

The SNPWG chair led the group discussion and updated the workplan which can be found on the IHO site as an Annex to these minutes.

18 Any other business

Tom presented the Coast Survey Mobile (CSM) App to the group. CSM is an Android tablet application being developed by Lynker Technologies for NOAA's Office of Coast Survey. The app integrates Coast Pilot content with NOAA Nautical Charts. CSM additionally integrates Nautical Chart displays with real-time GPS positioning and tracking. Coast Survey Mobile is intended to fulfill official Coast Pilot carriage requirements for commercial mariners, and to serve as a charting resource for recreational boaters.

The presentation and a link to the You Tube video is on the IHO's SNPWG site.

19 Date and place of next meeting

SNPWG 16 will be hosted by NGA and held in Silver Spring, Maryland following the combined TSMAD26/DIPWG5 meeting in 10 – 14 June 2013 – the exact date has not been determined pending meeting facility arrangements. Eivind recommended that we schedule the meeting after the TSMAD.

Provisionally, SNPWG 17 will be held in Rostock or Monaco March 2014.

Meeting closure

The Chairman thanked Jan and the Finnish Transport Agency in Helsinki, Finland for all the arrangements, facilities, demonstrations and presentations for SNPWG15.

SNPWG Procedural Reminders to all members

We started to discuss some procedural updates when conducting SNPWG business. We decided first that we need to get documents to the SNPWG Leadership three weeks before a meeting. For instance, members need to inform the Host Nation and WG Chair that they will be attending the WG three weeks before the scheduled meeting even if there is a chance they won't be in attendance.

Extra presentations given to SNPWG

Mr. Jukka Varonen

Jukka is the Chief Hydrographer of the FTA. FTA is responsible for roads, railroads and waterways. It is responsible for the Finnish transportation infrastructure and the overall development of Finland's transportation system. FTA is getting a new Director General in early January, 2013 and there will most likely be a reorganization. Jan will give a short update of the reorganization at SNPWG 16.

Mr. Sauli Majaniemi

Sauli is from the Finnish Meteorological Institute who still has a current Masters License. They stand a watch, 24 hours each day every day of the year. The Weather Service Production System has manual intervention until the output phase where it is automated. Weather and Safety Center issues the ice forecasts for the icebreakers and the commercial mariner. Forecasts are issued with a good degree of confidence up to 3 days out. They also do oil spill trajectory forecasts when there is a spill. The 24-hour Ice charts include wave heights, thickness, temperature, etc. Fog is also a big issue when there are icy conditions. The institute is also conducting research into annual ice melting patterns and what are the areas of most interest such as tourism, trade or oil and gas. The price of data is very reasonable but not free to the mariner. This work has some relevance to SNPWG because the Meteorological Institute uses several streams of data and repackage it in many forms to make multiple products.

Annex A: List of Action items

SNPWG action items tracking

Primary objective: Develop guidelines for the preparation of nautical publications, in a digital format compatible with ECDIS.						
Prepared by: Jens Schröder-Fürstenberg						Date: 16 November 2012
Reporting Period:					Type of report:	Conclusions:
From:	November 2012	To:	June 2013	Team Report	Working items to be done by SNPWG	
Planned tasks for this Reporting Period						
Action Item	Actor	Task Description	Start Date	Target End Date	Percent Complete	Task Status
14/10	TP	Complete MPA Product Specification for circulation to HOs	04/2011		60	Ongoing
14/11	SNPWG	Circulate inside HOs and obtain comment				Depends on 14/10 progress
15/1	JS-F	Contact Raphael to provide images of the MPA test areas and provide supplementary text to help explain the MPA progress to date and how it was a difficult but helpful exercise. The results will be presented on the SNPWG IHO Web site.	11/2012	12/2012		
15/2	EM+JR	Forward to TSMAD for consideration to change date information by values and text				
15/3	RD	Investigate other NP sources beside the five listed in the model. Will also be the contact person for other sources for the rest of the SNPWG. Report to be given by next meeting.	12/2012			
15/4	JS-F	Add the complex attribute to replace S-57 SORIND (Source Indication) to the Wiki for deliberation and validation by the members	12/2012			
15/5	SNPWG Chair	The SNPWG Chair will act as the point of contact between SNPWG and other IHO bodies. This needs to be included in the liaison paper to TSMAD.	12/2012			
15/6	SNPWG Chair	For SNPWG work to proceed, it needs several important items from TSMAD. SNPWG needs to write a liaison paper to TSMAD	12/2012			
15/7	JS-F	Revision of Wiki entries and their importance for potential products				Postponed to SNPWG 16

15/8	JS-F	Develop paper to TSMAD stating that the SNPWG Wiki contains more detailed information about communications.	12/2012			
15/9	EM+SNPW G	Await the next joint TSMAD/DIPWG meeting in June 2013 and the outcome of DIPWG portrayal work. Eivind will liaise with TSMAD/DIPWG and report back to the SNPWG.				
15/10	JS-F+TP	Include in the liaison paper to TSMAD the proposal concerning international light numbers and the creation of an international registry.	12/2012			
15/11	TP+ JR+TL	Investigate the possibility of taking the MPA work completed to date and creating a web service as an interim solution. Tom needs to check with NOAA leadership if this is still important as well as production system and tablet application contractors to see if this is currently feasible.	12/2012			
15/12	SNPWG Chair	An item in the TSMAD liaison paper regarding Lights and Navigation Aids concerning the overlaps between the work of SNPWG and TSMAD.	12/2012			
15/13	SNPWG	Review the current Jussland Radio Signal example and add information as appropriate. Alain will act as coordinator.	12/2012			
15/14	TP	Letter to David	12/2012			

Variance Details:

The delay with MPA ProdSpec is caused by deliverables not provided yet by other IHO WGs.

Corrective Actions:

Not needed yet

Notes:

SNPWG needs to be more proactive with the work results and more formal in the communications with other WGs.

Annex B: Agenda

**15th Meeting of the Standardization of Nautical Publications Working Group (SNPWG)
12 – 16 November, FTA Helsinki, Finland**

Agenda Amended 7 November 2012

No.	Agenda Item	Lead	Documents
	Monday		
1.	Opening and administrative arrangements	JN	
2.	Approval of Agenda	JS-F	
3.	Minutes of SNPWG 14	TL	
	Corrections		
	Review of Action Items from SNPWG 14		
4.	Report of HSSC4	JS-F	
5.	TSMAD 24 Report	EM	
6.	MPA Product Specification	TP	
6.1	MPA ProdSpec status		
	1400 Presentation of Finish Transport Agency by chief hydrographer Mr Jukka Varonen (M.Sc.Eng.)		
7.1	DMRG	JS-F	
	Tuesday		
7.	BLAST Report	PA	
8.	Japanese plan for new production system of SDs	TO	
9.	DQWG Report	EM	
6.2	MPA DQ attributes	JS-F, EM	
6.1	MPA Product Specification	TP	
6.3	MPA Feature Catalogue	TP	
6.4	MPA Data Capture and Encoding Guide	JS-F	
	Wednesday		

13	MPA Portrayal		
13.1	SNPWG Paper, Outcome from DIPWG and SNPWG response	EM	
13.2	How to proceed		
10	SNPWG representatives on several IHO bodies	TL	
14	Next products		
14.1	Development and discussion of a Data / Function Matrix to investigate potential ProdSpec candidates		
	1400-1530 Excursion to bridge simulator centre in Espoo		

	Thursday		
15	Next Product Specification (Radio Signal)		
15.1	Presentation of potential content	AR	
15.2	Discussion on how to proceed		
14	Next products	JS-F	
14.2	Lesson learned from MPA		
14.3	Development of ProdSpec production template		
14.4	Discuss order of products		
11.1	Wiki work; Open and reviewed items	JS-F	
11.2	Revision of wiki entries and their importance for potential products	JS-F	
12	Cooperation with TSMAD DCEG Group, items to discuss	JS-F, EM	
6.4	MPA Product Specification	TP	
	1400-1430 Presentation of Finnish Meteorological Institute (Mr. Sauli Majaniemi)		
6.5	MPA Progress and problems encountered with test data sets	EM, JS-F	
6.5.1	NOAA Areas	TL	
6.5.2	Brazil Area	VC	
6.5.2	Micklefirth Area	HJ	
16.	Election of the Chair and Vice Chair	TP	
	Friday		

12	Continuation: Cooperation with TSMAD DCEG Group, items to discuss	JS-F, EM	
17	Reflection of Hydrographic Conference and HSSC4	JS-F	
17.1	Terms of Reference		
17.2	Work plan for the SNPWG;		
18	Any other business	JS-F	
19	Date and place of next meeting	JS-F	

AR	Alain Rouault (FR)
EM	Eivind Mong (Jepp)
HJ	Holly Johnson (U.S.)
JN	Jan Nyholm (FI)
JS-F	Jens Schröder-Fürstenberg (GE)
PA	Pelle Aagaard (DK)
TP	Tony Pharaoh (IHB)
TL	Thomas Loeper (U.S.)
VC	Vania Claudia (BR)
TO	Takeshi Ohhara (JP)

Work sessions:

Monday - Thursday: AM and PM.

Friday: AM only.

Session AM1 0900 – 1030

Session AM2 1045 – 1200

Session PM1 1330 – 1500

Session PM2 1515 – 1630

Annex C: List of Attendees

Country	Name	email
Denmark	Pelle Aagaard	petar@KMS.dk
Finland	Jan Nyholm	jan.nyholm@fta.fi
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Germany	Jens Schröder-Fürstenberg	jens.schroeder-fuerstenberg@bsh.de
Japan	Takeshi Ohhara	shoshi@jodc.go.jp
Japan	Teruo Kanazawa	kanazawa-r4w@jha.jp
Korea	Myungwon PARK	pmw1959@korea.kr
Norway	Olav Haugen	Olav.Haugen@statkart.no
Spain	Alejandro Herrero Pita	ihmesp@fn.mde.es
Sweden	Niklas Hammarkvist	niklas.hammarkvist@siofartsverket.se
UK	Richard Dobson	Richard.Dobson@UKHO.gov.uk
USA NOAA	Thomas Loeper	Thomas.Loeper@noaa.gov
USA NGA	Mike Kushla	Michael.S.Kushla@nga.mil
IHB	Tony Pharaoh	pad@ihb.mc
Technical Experts		
Caris	James Rapaport	james.rapaport@caris.com
Jeppesen	Eivind Eik Mong	eivind.mong@jeppesen.com
NOVACO	Yiorgos Palierakis	yiorqos.palierakis@novaco.co.uk
Interschalt	Michael Neumann	michael.neumann@interschalt.de

7. SNPWG WORK PLAN 2013-14

7.1 SNPWG Tasks

A	Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
B	Define the content requirements of NP data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
C	Develop test data (IHO Task 2.6.2 refers)
D	Develop basic display rules for NP data intended for use in ECDIS (NP3) (IHO Task 2.6.2 refers)
E	Draft guidance documents (IHO Task 2.6.2 refers)
F	Maintain and extend IHO resolutions in M-3 relating to Nautical Publications as required (IHO Task 2.6.3 refers)
G	Liaise with other HSSC WG's and other IHO and international bodies (IHO Task 2.6.2 refers)
H	Develop, maintain and extend S-10n - Nautical Information Product Specification (IHO Task 2.6.2 refers)
I	Conduct the 2013 and 2014 meetings of SNPWG (IHO Task 2.6.1 refers)

Task	Work Item	Priority H-high M-medium L-low	Next milestone	Start Date	End Date	Status P-Planned O-Ongoing C-Completed	Contact Person	Related Pubs / Standard	Remarks
B2	Model the data where required.	H		2004	Open	O	Chair/Sec SNPWG	S-100	To be included in NPUBS register
B3	Review of objects and attributes	H	11/2012	2004	Open	O	Chair/Sec SNPWG	S-100	According to the tasks assigned by HSSC4
B4	Propose amendments for Hydro register to TSMAD	H		2005	Open	O	Chair/Sec SNPWG	S-100	To be included in the Hydro register
B6	Populate the NPUBS Register	H		2006	Open	O	Chair/Sec SNPWG	S-100	
C1	Produce test data set	H		2009	Open	O	Chair/Sec SNPWG		
C1.1	For Marine Protected Areas	H		2012	2012	C	Chair/Sec SNPWG		

C1.2	For Radio Signal	H	6/2013	2012	2014	O	Chair/Sec SNPWG		According to the tasks assigned by HSSC4 Collection of information to be modelled
C2	Set up a test bed ECDIS	M		2009	Open	P	Chair/Sec SNPWG		
D1	Develop basic display rules for NP data intended for use in ECDIS (NP3)	M		2008	Open	O	Chair/Sec SNPWG	S-52	Close co-operation with DIPWG required
E1	Draft Data Capture and Encoding Guides	H		2008	Open	O	Chair/Sec SNPWG		Document for NPs similar to Use of the Object Catalog
E1.1	For Marine Protected Areas	H	06/2013	2011	Open	O	Chair/Sec SNPWG		To be harmonized with S101 DCEG; Awaiting next S100 version
E1.2	For Radio Signals	H		2014	Open	P	Chair/Sec SNPWG		Depends on modeling progress
E2	Draft Sample Product Specification	H		2008	2009	C	Chair/Sec SNPWG		Development of: a) a SNPWG profile of S100 Part 11 Prod Spec; b) a draft sample for Pilotage; c) a draft sample for Waterways.
E3	Draft Product Specification	H		2010	2013	O	Vice Chair SNPWG	S-10X	Drafted in phases;
E3.1	For Marine Protected Areas	H	12/2013	2010	Open	O	Chair/Sec SNPWG		Depends on progress of next S100 version allowing GML data use
E3.x	For Radio Signals	H		2013	Open	P	Chair/Sec SNPWG		According to the tasks assigned by HSSC4
F1	Resolutions in M-3 relating to Nautical Publications	M		2012	Open	O	Chair/Sec SNPWG	M-3	A review is scheduled due to harmonization of M3 information and potential ProdSpecs content
F2	S-12	L	11/2013	2013	Open	P	Chair/Sec SNPWG	S-12	After endorsement of light numbering proposal at HSSC5
G1	Liaise with the DIPWG for the development of the display rules	H		2005	Open	O	Chair/Sec SNPWG		
G2	Liaise with the TSMAD	H		2004	Open	O	Chair/Sec SNPWG		
G3	Liaise with other groups	H		2004	Open	O	Chair/Sec SNPWG		Including DPSWG, DQWG, TWLWG, MIO's, AML, ICE, Inland ECDIS

G4	Liaise with IALA e-Nav Committee	H		2013	Open	0	Chair/Sec SNPWG		As advised by HSSC4
H1	For Marine Protected Areas	M	12/2013	2013	Open	0	Chair/Sec SNPWG		Depends on endorsement of new S100 version
H2	For Radio Signals	M	6/2013	2012	Open	0	Chair/Sec SNPWG		

7.2 SNPWG Meetings (Task I)

Date	Location	Activity
13-17 Feb 2012	IHB, Monaco	SNPWG 14
12-16 Nov 2012	Helsinki, Finland	SNPWG 15
17-21 June 2013	Silver Spring (MA), U.S.	SNPWG 16
2014		SNPWG 17

Chairman: Jens SCHRÖDER-FÜRSTENBERG, Germany
Vice-chairman: Thomas LOEPER
Secretary: vacant

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