IHO Standardization of Nautical Publications Working Group (SNPWG)

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30 June 2008

FINAL MINUTES

Standardization of Nautical Publications Working Group (SNPWG) Meeting
21 - 25 April 2008– SHOM, Brest, France

Chairman: Mr. David Acland (UKHO)
Deputy-Chairman: Mr. John Nyberg (NOAA)
Secretary: Steven Offenback (NGA)

Annex A: Agenda
Annex B: List of Attendees
Annex C: SNPWG Work Plan

Item
1   Opening and Administrative Arrangements
1.1   Opening Address on Behalf of SHOM
Henri Dolou, SHOM Director of Quality, Methods and Normalization, welcomed the working group and expressed his appreciation for it. Henri referred to the fact that ships are increasing in size but navigation teams are becoming smaller, and that it is not uncommon for lookouts to be absent from the bridge by day. Chart correcting and publication updating is becoming more and more challenging for these smaller navigation teams. Henri believes that by producing structured electronic navigation data, which can be incorporated into ECDIS's, hydrographic offices will be able to provide a more efficient way for ships to maintain their navigation resources.

1.2   Administrative Arrangements
Christian Jego (SHOM) briefed the group on the safety and administrative arrangements for the group for the week. This included the occasions when other members of SHOM would join the SNPWG for working sessions, lunch and the SNPWG supper arranged for Wednesday Evening.

1.3 Chairman's Opening Remarks

David Acland welcomed returning members and gave a special welcome to representatives of member states who were attending for the first time. He then outlined the work plan for the week and said that he would like to have a discussion about how the group should proceed with its work for the next two years. He informed the group that the 54th Safety of Navigation Sub-committee of the IMO is likely to make it mandatory for new build ships to be equipped with ECDIS by 2010 or 11 and to make it mandatory to retrofit vessels already at sea very soon after that. He said that it is becoming common for vessels to have 3 or more ECDIS systems onboard and it's our job to set the standard which allows nautical information to be obtained and used by their ECDIS systems.

Since the last meeting all agreed SNPWG Objects and Attributes have been put in to the NPUB register as INVALID items, will be reviewed by this meeting and then hopefully validated. The next batch of objects and attributes agreed in this meeting will then be loaded into the register by Mal Tennant.

There will be four reports given this week; how to use Objects and Attributes shown at Radio Signal Station Information, Ice Reporting, the TSMAD S-100 Part 10 Product Specification Component, and a review of M3 Technical Resolutions. Unlike S-57 the idea of S-100 is that it can be amended and expanded easily so that hydrographic offices can create and distribute new data products without major work being required of OEMs, who manufacture the equipment. The point of the move to S-100 is that once the features and attributes are in the feature data dictionary, hydrographic offices can create new products quickly and easily. This means we can expect to steadily create new features and attributes as they are needed. The work on our Feature Data Dictionary is not expected to end and updates to will continue to occur.

2. Approval of Agenda

With some adjustments, the agenda was approved.

3. Minutes of SNPWG 8

3.1 Corrections.

SNPWG 8 Minutes were started by John Nyberg, written up by Steve Offenback, and Jens proposed a number of corrections by email. This work of three hands, with some sections marked up in Green with comments in a covering email, was accepted and used to review actions. The commented minutes and correcting email will be placed on the SNPWG8 page of the IHO Website.

3.2 Review of Action Items from SNPWG 8

ACTION David, Jens, and John to work on an alternate proposal for (*catnti)* and the dilemma it causes for the meeting in Brest.

Not complete.

ACTION Parslow - Present new attribute category of slope (*catslo*) to TSMAD

David took charge of this action and completed it.

ACTION Parslow - Present new attribute period between dredging *(prddrg)* to TSMAD.

This action still remains outstanding. David will recommend this to TSMAD.

ACTION ITEMS - *CSPC needs to be contacted with the recommendation that buoy IMB definition needs improvement. It needs to be reported to TSMAD that deviation dolphin in (*catmor)* needs to be removed.

Action Item was deleted

ACTION ITEMS -
- Recommend to TSMAD Fjord, Estuary, Bar, and Caldera be added to Category of Sea Area.
- A new category referring to river named Category of River (*catriv*) which will include stream, creek and other inland water bodies, needs to be created.

Completed.

ACTION ITEMS - UML diagram for Service Hours has to be changed and Notice (*notice*) Information-Object will be replaced by attribute Notice Time (*ntctim*).

Completed.

ACTION SNPWG - More work on the attributes is needed, all members need to find out more information about their country's various authorities and at a later time we will review Category of Authority again and make changes where needed.

No further action.

ACTION Americas WG -
- Recommend to TSMAD adding tundra, taiga/boreal, deciduous forest, desert, desert-scrub, rainforest, alpine and chaparral to Category of Land Region.
- John will review the definitions for the Category of Land Region and show the results at a later date.
- John will add Med Pine to the Category of Vegetation.

Still ongoing.

ACTION The Northern European Group - The Northern European Group develop a method of distribution for NAV\MET area.

Completed.

ACTION The Northern European Group - The Northern European Group will develop a new NAVAREA and METAREA Object class and define it.

Completed.

ACTION Svante - Svante will speak with a rep from the WMO about the boundaries of WFA.

Completed.

ACTION The Northern European Group - The Northern European Group – needs to consider the inconsistencies of data.

Completed.

ACTION Parslow - Recommend to TSMAD remove (*calsgn)* and (*comcha)* from the category of Radio Station Object RDOSTA.

ACTION Parslow - Construct a new information object named Radio communication.

Ongoing

ACTION The Northern European Group - Contact a radio specialist to give the group more insight on whether a mariner uses frequency for radio communication or just channel.

A radio specialist was contacted by Jens - Completed and will be worked on in our work.

ACTION The Northern European Group - Recommend to TSMAD to remove the following attributes from Category of Radio signals (*CATROS*): consol beacon, decca, toran, omega

David has made the recommendation to TSMAD.

ACTION The Northern European Group - The definitions for Category of rescue station are subject to revisions; a native English speaker will review all the definitions and make the necessary changes and will review it in Brest. Rescue aircraft needs to include (or make reference to) rescue helicopter.

Completed.

ACTION The Northern European Group - The NEG will change attribute to Category of registration data to boolean object.

Completed.

ACTION Acland - David will add Category of notice time to the register.

This should have been "Category of rgdata". Catrgd has become imorep. Completed.

ACTION The Northern European Group - Recommend to TSMAD Category of registration data *(catrgd)* be removed from the Pilot Service Info Object.

Completed.

ACTION Schroeder-Fuerstenberg - Create an ice class restriction object.

Completed.

ACTION Offenback - Put together a couple paragraphs highlighting the progress of SNPWG.

Completed.

ACTION Tennant - Mal will put together and submit, by October, a report concerning the criteria for submitting entries to the register

Still ongoing – need to put together a report outlining the difficulties we experienced submitting entries to the register.

ACTION ITEM - We need to sort out where the comma's and the leading zero's go in attribute Volume of traffic (*traffc*).

New complex attribute *voltrf* drafted. Completed.

ACTION SNPWG - Reply to Captain Robert Ward's questions concerning the justification of the SNPWG

Completed.

ACTION Acland – Pull together a report on these lines, including comments and ideas for the CHRIS 19.

Completed.

ACTION Item from SNPWG 6 ASWG - Venezuela and Argentina will work with the ASWG to make a proposal to symbolize a disputed area, ex. Venezuela's claim with Guyana. The results will be presented at the next SNPWG meeting.

Rolando said that the Servicio de Hidrografía Naval is not going to present a proposal about the issue because it considers that the subject exceeds the authority of the institution.

4.   Chairman's Report of CHRIS 19 and ECDIS Stakeholders Forum (ESF)

CHRIS 19 and ESF took place in Rotterdam during EUROPORT 2008, designed for the shipping industry and which included many manufacturers of ECDISs. The meetings spanned a four day period of four sessions each. IHO tried to bring together all the ECDIS manufacturers to explain the futures of S-57 and S-100. David Acland spoke to the combined CHRIS 19 and ESF about the SNPWG work and what is currently in traditional products; what is already available as electronic products (NP2); and what the SNPWG is trying to accomplish, which is the publication of information, which can be integrated with an ECDIS (NP3).

5.   Sub-Group Reports

5.1   Americas SNPWG-SubWG –
There were no changes to report.

5.2   Western European SNPWG-SubWG –
The Western group had a three day meeting in February in Taunton. Dennis van der Heul (Netherlands) installed the Digipilot on two UKHO computers and gave a demonstration on its capabilities. Christian Jego (France) had a brief meeting with the UKHO Print Manager about computer to plate equipment. The group reviewed NEG drafting work and had a session in-putting agreed items into the NPUB registry, and made recommendations for improvement. Christian Jego raised the subject of hydrographic symbols in Unicode and suggested that there could be a session in Brest on this subject.

5.3   Northern European SNPWG-SubWG –
Met once in Denmark to discuss Radio Signals and how they should be used, investigated Ice information and concluded with reviewing the Americas sub-working groups work. Jens Schroeder-Fuerstenberg developed quite a large number of items as the result of the BSH work with Jeppesen on the Sailing Directions feasibility study (see #7 for more information).

6   Approve SNPWG Features Objects, Information Objects and Attribute

Attributes

- Volume of traffic (voltrf) – it recommended that the acronym traffc be changed to voltrf. S-100 will allow us to create complex attribute types.

- Number of vessels (numves) the attribute type will be an integer with the definition – Annual number of ships per year entering a port. After a few minor edits by the group the new attribute was agreed.

- Dead weight tonnage (dwtton) the attribute type will be an integer with the definition – Total annual dead weight tonnage. After a few minor edits by the group the new attribute was agreed.

- Number of passengers (numpas) the attribute type will be an integer with the definition – Total number of passengers handled by the port. After a few minor edits by the group the new attribute was agreed.

- Year of report (yerrep). It was recommended that year be added to numves, dwtton, numpas because data might not be available for a given year. The attribute type will be an integer.

Volume of traffic (voltrf) David rewrote the definition to include year on each of the attributes : number of vessels, deadweight tonnage and number of passengers.

- Year of number of vessels (yerves) definition was created and agreed.

- Year of deadweight tonnage (yerdwt) definition was created and agreed.

- Number of passengers (numpas) was changed to (numpax) and agreed.

- Year of the number of passengers (yerpax) definition was created and agreed.

- Year reported (yerrep) was removed.

- Volume of traffic (voltrf) agreed on with the new changes to the attributes.

- Category of transport facilities needs improvement to definitions 3 and 13.

- Category of waste (catwas) the group made some alterations to some of the definitions created or incorporated by Jens and David.
(It was mentioned that the group needs to check the enumerations for further details on the MARPOL Annex I for scale and sludge from tank cleaning and we need to add definitions to MARPOL Annex II for category X, Y, Z substances)

- Call Name (calnam) – attribute agreed.

- Category of Authority (cataut) – after a few edits to the definition the attribute was agreed.

- City name (citynam) – after a lengthy discussion on the definition and whether or not to include national language, it was realized that a resolution could not be made today, but national language was removed from the definition then agreed.

- email address (emails) – altered the definition then agreed on it.

- Telegraph address (adrtlg) – agreed.

- Telex number (numtlx) - altered the definition then agreed.

- IMO report (imorep) – agreed.

- Internet address (adrnet) – agreed.

- Medical service (srvmed) - altered the definition then agreed.

- Category of Supply (catsup) – an encode guide to show how to use multiple types of supply will be developed.

- Category of Ice (caticl) was changed to thickness of ice (icethi) attribute type switched from E to I, then later changed to Thickness of Ice Capability (icecap). This will show the amount of ice a ship can handle to safely navigate, with the definition altered to be more accurate with the indication unit – centimeter added then agreed.

- Destination (dstntn) - altered the definition then agreed.

- Destination (dstntn) further work will be done on this attribute to consider adding "northbound or southbound"

- Direction (dirctn) added up and down then had a discussion on the definition and altered it. The place could include a phrase such as "the North – West – East or South or a combination was added to the remarks. Finally decided to include in dstntn – deleted.

- Vessel performance (prfmnc) - altered the definition then agreed.

- National currency (ntncur) altered the definition then agreed.

- Other currency (othcur) agreed.

- Category of flag (catflg) – agreed.

- Notice time (ntctim) - altered the definition then agreed.

- Category of maneuvering and berthing assistance (catbas) – added maneuvering to the title then agreed.

Geographic Object Classes

- Automatic Identification System as an aid to navigation (aisatn) the definition was altered by adding "when it is placed on a navigational mark" then agreed.

- Flag information (flginf) – agreed.

- Type of ship (shptyp) – reviewed the sub attributes and Peter brought up the fact that there will be overlapping definitions in the ECDIS if we use the AIS type of ship list – should the information be a list or enumeration? It was decided further work needs to be done.

7.   BSH and Jeppesen Sailing Directions feasibility study

Jens Schroeder-Fuerstenberg (BSH) introduced John Parrott and Raphael Malyankar from Jeppesen Marine who were the key players in the study. John, Jens and Raphael gave a presentation of the work which was a feasibility study mapping the content from a single BSH SD chapter using the SNPWG8.x object model, definition of a Jeppesen XML model, content conversion, and production of sample outputs. BSH had re-structured the content to support the SNPWG model. They translated the content to English, and provided background materials. The pilot team mapped the SNPWG/S-57 object model to the sailing directions content. Jeppesen defined an XML model, XSL code, and steel-thread processes to convert the BSH source content from MS Word into an XML repository. Jeppesen defined print, web, and data extract output formats, and additional transforms and processes were developed to move data from the repository into the 3 outputs. BSH reviewed and approved version 1 outputs, then updates were applied in the XML model, and Jeppesen produced a version 2 print sample, which was also approved by BSH.

The pilot concluded that it is feasible to apply the SNPWG/S57 model to the sailing directions sample and use the Jeppesen XML solution to produce print, web, and data extract encapsulations that preserve the BSH content.

Jens admitted that through the modeling the BSH found new ways to improve the data provided by being more stringent with its inputs. Tony Pharaoh enquired whether a pic report will be handled in such a way that it would be flexible such that it would be able to be used and altered within S-57 and S-101. Raphael explained that it should not be a problem.

Action Item (SNPWG) - All members need to review the findings of the BSH and Jeppesen Marine pilot study and XML model available on the IHO website at http://www.iho.shom.fr/COMMITTEES/CHRIS/SNPWG/SNPWG9/SNPWG9Docs.htm and send comments to Jens at BSH by the end of May 2008.

8. Approve SNPWG recommendations of amendments or extensions to S-57 Objects and attributes

David explained that in S-57 we have the restriction of binding attributes with objects but that in S-100 the binding will not necessarily be so tight.

David reviewed the Geographic Object classes and the changes made to it.

Seabed area – Is normally represented as a point but in some cases it can also be represented as a line or a polygon.

Eivind suggested that the working group should give a rationale for all changes, so when TSMAD reviews our recommendations they will have a better understanding of why we want these changes. He explained that when TSMAD reviews the changes we made they are unsure of the rationale.

Tony Pharaoh suggested that the group give some user case examples on how information objects will be used and mentioned the Jeppesen demonstration might answer some of our questions concerning Information Objects.

9. Introduction to TSMAD Paper IHO Geospatial Standard for Hydrographic Data S-100 Part 10 Product Specification Component

Peter Parslow (UK) gave an explanation of the S-100 Version 0.0.0 guidance Product Specification Component Chapter 10. Peter explained how the various components were developed and how the specifications are used for the creation of a product in S-100.

10. Problem children

10.1 restvc

Many conversation points were brought about the attribute and David concluded that the definition needs improvements. Jens recommended that we take out (RESTRN) and put in its place (rcmdts), (reglts), (resdes). Peter believes it should kept in and associated information object classes should be made for rcmdts, reglts, and resdes.

Action Item (Acland) - Improve definition to Information Object (restvc).

10.2 (ntiare), (gennti) and (catnti) Not discussed.

11. Approve IHO Feature Data Dictionary Registry NPUB Register entries – Turn Invalid into Valid

Mal Tennant gave an overview of the IHO Hydrographic Register and proceeded with the group, to go through the NPUBs Feature Index to decide if we can change them from Not Valid to Valid.

Piracy risk area – (pirare)

Action Item (Tennant) – Report to Barry Greenslade and request a row be added to include Associated Information Objects.

Remarks need to be added to Reference United Nations Convention on the Law of the Sea – Article 101.

UNCLOS
VII

Reference – UNCLOS
Source Document – Article 101 & VII

(Supply) – Camel Case supply needs to be changed to uppercase objects reference - M3 and Chapter C2.8 added as reference.

Invalid Attributes –

(qtylim) reference – add SNPWG as the reference but first needs to be added to catsup.

Fuel – fix the camel case (make all lower case) then validate.

Lubricants – fix the camel case for the correct spelling from lubrlicants to lubricants and an s to surface at the end of the definition to read surfaces – fix and validate.

Potable water – not validated.

(catgmd) – Jens and Eivind suggested the current definitions should removed and replaced by briefer definitions.

Camel case – will be changed to CategoryOfGmdssArea

Mal Tennant for Barry – It was suggested that the Hydrographic Attribute needs to be changed and if changed it should be changed to NPUBs Attribute.

(frmtxt) – on hold & camel case changed to FormattedTxt

It was decided by the group that due to a limited ability to change fields with current permissions that group will put validating the registry on hold.

It was proposed that a small controlling body of experts, which have the authority to make changes, do this work out of committee and that the SNPWG should be the approving authority.

12. **Radio Signals – NEG paper – How to use -**
Jens SF presented his paper SNPWG9_004.5. This is an initial discussion on how we use Radio Service Information and how data encoders will use our information and present it. These services are provided from ground based and satellite transmitters. Jens presented his proposals for modelling the information in two subject headings: Areas and Radio stations. The areas include NAV/MET Areas, NAVTEX Service Areas, INMARSAT Ocean Regions, Weather forecast and warning areas and Ice information areas. The Radio Stations discussion includes: Radio Methods, Radio Services and DGPS. Jens's proposals include how to encode the frequency, modulation type, time of transmission etc, about the radio transmission. To this end he has created a new family of attributes to describe radio transmissions.

- NAVTEX Station Area – one NAVTEX area can cover more then one NAVAREA – a NAVTEX Station has only one attribute (ntidch).

- INMARSAT ocean region area
  Covers many NAVAREA's but is used to report to NAV/METAREA. Each of the INMARSAT coverage areas overlaps but each satellite has different reporting times for certain information.

  Weather forecast and warning Area (wetfea) attribute (catfca)
  International forecast areas and the National forecast areas overlap with multiple nations.

  Ice Information Areas – The question was posed on whether a new object should be created separate of WETFCA or should Ice Information Areas just be an attribute to Weather Forecast Areas. Currently there is no internationally recognized forecast area for ice and Jens, in his investigation, determined that ice information areas should only be an attribute within the WETFCA.

  Radio Station – Keep service separate from area.

  RDOSTA Geographic Object - Jens Schroeder-Fuerstenberg (Germany) recommends the addition of many attributes to the object: (calnam), (catbrc), (catfrp), (catmsi), (catrmt), (facssp), (frqprs), (numtor), (rdstid), (tmstrm), (trmctn), (trmtfc), (trnmst).

  -Station Identifier – Station call sign and name

  NAVTEX – Range in nautical miles. (This is the Service Area. See Svante's post meeting Note above)
  NAVTEX – Predicted coverage area is different than coverage area.

  Jens described each attribute and what needs to be added to make the object complete.

  Eivind questioned the inclusion of the restriction attribute with RDOSTA and Jens agreed with Eivind's assessment and removed the attribute.

  Ice Warning Areas – It was recommended that the SNPWG work with the ice group to ensure there is no conflicts with how the ice information will be presented. Currently the Ice Group, which is a WMO working group, has a populated registry the SNPWG should get familiar with.

Tom Loeper (USA) said that SNPWG should also consider commercial satellite systems that provide weather reports, such as XM and Sirius.

13. Ice – NEG report – Navigation in Ice requirements – Services

Jens reported and demonstrated his findings for ice requirements. Tom Loeper assisted in gathering data from the Canadian ice authority.

How will a hydrographic office handle ice reporting? – A proposal is in Jens's report.

Envind brought to Jens's attention that the use of temporal data in S-100 can not be handled easily and the ice authority needs to be aware of the use of fixed objects with continuing changing geometry.

Action Item (Parslow) – Peter will investigate the use of fixed objects with changing geometries.

14. Review of M3 – Technical resolutions

IHO has started the process to review M3. Steve Shipman made an initial assessment. CHRIS 19 took this work further; but left some sections for review by WG Chairmen. David has done this for the SNPWG and requests the group to review his comments and make any further comments.

David wanted to take a closer look at connecting points used in Distance Tables (M3 H 2.1). In the first case views were sought on the continued utility of distance tables as an increasing number of software applications are available to mariners.
- It was agreed a requirement for distance tables continued.
- In discussion which followed it was decided connecting points at M3 H-2.1 should be generalized and the list should be revised. Tony Pharaoh and Mal Tennant reviewed and made some edits to the M3 list for distance tables, but said there needs to be further work on it to ensure its accuracy.

Action Item (Tennant) - Mal Tennant will work with NOAA on the list for Distance Tables within the M3.
Action Item (Acland) - David report the outcome to IHB.

F1.6 - Expressing Geographical Positions
- Propose to delete b. Difference of latitude and longitude from a well defined and permanent charted object – David's comments will be amended.

15. Work plan for the SNPWG

David started this item by saying that there were several important items in the work plan and that he would like to have an initial discussion about how they were to be tackled.
John Nyberg suggested that we should have small workgroup to address each of these work items and recommended that we start immediately in break out groups. This was agreed and the work groups were formed as follows:

Feature Data Dictionary	Display Guidelines	Product Specification
Rolondo Rios	Jan Skovgaard	Tom Loeper
Ricardo Ramos Freire	Pelle Aagaard	Jens Schroeder-Fuerstenberg
Jens Schroeder-Fuerstenberg	Denis van der Heul	Eivind Mong
David Acland	Rolando Rios	Peter Parslow
Tony Pharaoh	David Acland	Sewoong Oh
		John Nyberg

It was agreed that these groups would meet initially to scope the work and would then work as correspondence groups.

It was proposed that there should be another group to act as the control body of the NPUB registry. The controlling body will be:

Control Body
Tom Loeper
Christian Jego
Christian Lejeune
Malcolm Tennant

Tony Pharaoh said we should take note of the work done in the BSH Jeppesen Pilot and build off the successful development of the XML and its further conversion into a book file.
The chairman said it may be useful in the product specification work to have an example of one part of the subject matter and mentioned pilotage as a potential candidate. This document could act as a template on which to build other product specifications.

16. Any other Business
The current secretary, Steven Offenback (USA), has reported that he will be leaving the working group before the next meeting. The chairman expressed the thanks of the SNPWG to Steve Offenback for acting as secretary for the last year.
The Chairman proposed Pelle Aagaard (Denmark) to be the new Secretary. Hearing universal approval from the working group, the Chairman asked Pelle if he would be prepared to take on the role. With the support of Jan Skovgard, Pelle agreed to be the new Secretary.
Christian Jego (France), has reported that he will be leaving the working group before the next meeting.

17. Date and place of next meeting
SNPWG10 will be hosted by NOAA at Silver Spring, MD USA in the week of 23 – 27 February 2009. The first meeting will start at 9 am.

IHB in Monoco will host SNPWG11 with the provisional dates being 7 – 11 September 2009.
Action Item (Acland) - David will speak to Chairman TSMAD to try to arrange back to back meetings.

18. Meeting closure
The chairman thanked all concerned for their contributions to a very successful meeting. He thanked SHOM for the arrangements for the week and for the attention of Henri Dolou to the SNPWG throughout the week. Very special thanks go to Christian Jego, who had been in constant motion for almost a month.
On behalf of the SNPWG, David thanked Steve Offenback for acting as secretary for the last year. The Chairman said "Goodbye and best wishes" to Steve and Christian Jego, who do not expect to attend future meetings, and wished everyone safe return journeys.

9th Meeting of the Standardisation of Nautical Publications Working Group
(SNPWG)
21– 25 April 2008, SHOM, Brest

AGENDA DRAFT 2

No.	Agenda Item	Related Documents
1.	Opening and Administrative Arrangements	
2.	Approval of Agenda	
3.	Minutes of SNPWG 8	
3.1	Corrections	
3.2	Review of Action Items from SNPWG 8	
4.	Chairman's Report from CHRIS and ECDIS Stakeholders Forum	
5.	Sub-Group Reports	
5.1	Americas SNPWG-SubWG	
5.2	Western European SNPWG-SubWG	
5.3	Northern European SNPWG-SubWG	
6.	Approve SNPWG Features Objects, Information Objects and Attributes	
7	BSH and Jeppesen Sailing Directions feasibility study	
8.	Approve SNPWG recommendations of amendments or extensions to S-57 Objects and attributes	
9.	Introduction to TSMAD Paper IHO Geospatial Standard for Hydrographic Data S-100 Part 10 Product Specification Component	
10.	Problem children	
10.1	restvc	
10.2	ntiare, gennti and catnti	
10.3	Any others ?	
11.	Approve IHO Feature Data Dictionary Registry NPUB Register entries – Turn Invalid into Valid	
12.	Radio Signals – NEG paper - How to use	
13.	Ice – NEG report – Navigation in Ice requirements - Services	
14.	Review of M3 – Technical Resolutions	
15.	Work Plan for the SNPWG	
16.	Any Other Business	
17.	Date and place of next meeting	

**9th Meeting of the Standardisation of Nautical Publications Working Group (SNPWG)
21 - 25 April 2008, SHOM, Brest, France**

LIST OF ATTENDEES

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	IHB	Tony PHARAOH	pad AT ihb.mc

Technical Experts			
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In attendance 23 Apr 2008			
	Jeppesen	Michael BERGMANN	Michael.Bergmann AT jeppesen.com
	Jeppesen	Raphael MALYANKAR	rmm.email AT gmail.com
	Jeppesen	John PARROTT	John.Parrott AT jeppesen.com

SNPWG Proposed Work Plan

SNPWG Tasks

A.   Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3)

B.   Define the content requirements of NP data intended for use in ECDIS (NP3)

C.   Test data

D.   Develop basic display rules for NP data intended for use in ECDIS (NP3)

E.   Draft guidance documents

F.   Revise technical resolutions as required

G.   Liaise with other CHRIS WG's and other IHO and international bodies

SNPWG Workplan

Task	Work Item	Priority H-high M-medium L-low	Start Date	End Date	Status P-Planned O-Ongoing C-Completed	Contact Person	Affected 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	2004	2008	O	Chair/Sec SNPWG	S-100	
B4	Propose amendments for Hydro register to TSMAD	H	2005	Open	O	Chair/Sec SNPWG	S-100	To be included in S-100 registry
B5	Create the NPUBS Register	H	2006	2007	C	Chair/Sec SNPWG	S-100	
B6	Populate the NPUBS Register	H	2006	Open	O	Chair/Sec SNPWG	S-100	
C1	Produce test data set	H	2009	2010	P	Chair/Sec SNPWG		

C2	Set up a test bed ECDIS	M	2009	2010	P	Chair/Sec SNPWG		
D1	Develop basic display rules for NP data intended for use in ECDIS (NP3)	M	2008	2009	P	Chair/Sec SNPWG	S-52	Close Co-operation with CSMWG required
E1	Data Capture Guidance	H	2008	2009	P	Chair/Sec SNPWG		Document for NPs similar to Use of the Object Catalog
E2	Draft Product Specification Guidance and Example	H	2008	2009	P	Chair/Sec SNPWG	S-10X	
F1	Revise technical resolutions	H	2007	2008	P	Chair/Sec SNPWG	M3	
G1	Liaise with the CSMWG for the development of the display rules	H	2005	Open	O	Chair/Sec SNPWG		
G2	Liaise with the TSMADWG	H	2004	Open	O	Chair/Sec SNPWG		
G3	Liaise with other groups	H	2004	Open	O	Chair/Sec SNPWG		Tides, MIO's, AML, ICE, Inland ECDIS

Next Meeting: 23-27 Feb 2009   Washington DC.
Then: 7-11 Sep 2009   IHB, Monaco