IHO Standardization of Nautical Publications Working Group (SNPWG)

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Standardization of Nautical Publications Working Group (SNPWG) Meeting
26 - 30 June 2006– IHB, Monaco

Chairman: Mr. Johannes Melles (BSH)
Co-Chairman: Mr. David Acland (UKHO)
Secretary: Mr. John Nyberg (NOAA)

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

1   Opening and Administrative Arrangements –

1.1   Introduction and welcome

Rear Adm. Kenneth Barbor highlighted the importance of the working group, relating to safe efficient navigation. He stated that the SNPWG's contribution was important to ECDIS as a whole.

1.2   Introduction

Johannes Melles gave a brief introduction and said that he felt that the WG was making some good progress with the work and that it had been a good decision to split the work between sub-groups. He stated that we need to review the work that was done between meetings in order to have a partial submission to TSMAD (S100) by their next meeting. At the end of the week, the remaining work will be re-distributed among the groups.

2   Approval of Agenda – Administrative arrangements

The chairman said that the meeting will start at 9:00 each day and will end between 17:00 and 18:00. The chairman stressed that Friday will be a full day.

The chairman reviewed the agenda, and it was approved by the WG.

Peter Parslow volunteered to do a presentation regarding the feature dictionary.

3   Matters Arising

The chairman chose to review the minutes from the last meeting in order to discuss action items.

Action items:
5-1: Action Items – The groups were tasked to complete a first draft of review of the scope document. The chairman recognized that the Americas SG needed participation outside NOAA.

4   National Reports

Denmark   -   Denmark is undertaking a large effort to modernize their Greenland publications and charts. It will be a major effort.

Germany   -   Still working on Caris HPD specifications, printed applications and paper charts. Germany is working toward using a one database solution and has installed the generic product editor for first test runs for the production of NautPubs. This will help them extract the data that they need for publications.   It is important for this project to have the new object classes for this procedure. They are adding a CD with a pdf –version to the next version of their Nautical Pubs.

Spain   -   Producing a number of nautical publications with CD rom containing .pdf versions of their pubs. They produce a new edition of their list of lights and tide tables each year.

UKHO   -   UKHO is in the process of reorganization. They will continue to produce paper nautical publications, with SDs containing a CD. They will be releasing new versions of their radio signals this year, published from the digital POLAR database.

France   -   France continues the work that they presented at the last SNPWG meeting in Copenhagen. Working on two main projects: DIGINAV concentrates on the packaging, distribution and marketing of all digital publications outside the ENC. France is developing a database for the raster chart through a contract effort. Outside DIGINAV, they are using .pdf and other publicly available readers. They are working to supply consistent range of digital publications, satisfy international and national regulations, and start delivering first editions basted on digital images of the printed documentation. They require updating service, safety and integrity of data, marketing, copyright, separate accounts for all the activities related to the delegation, legal study on competition with the private editors, and allow SHOM to use systems developed by contractors to ensure service for French Navy.

Still working on XML project. They are moving from desktop publishing system. Working to be in accordance with IHO specifications. They must consider cost and time along with quality assurance. They are using open source software and are working on a new graphic convention.

The prototype can produce various forms of .pdf and XHTML. Database prototype will produce all nautical publications in the next few months.

USA (NOAA) - NOAA is continuing its effort to modernize their production system for nautical publications.

USA (NGA) - NGA is placing its publications into one dataset. All pubs will be in one file.

Argentina - The Servicio de Hidrografia Naval produces Electronic Nautical Charts for the Rio del Plata and some areas of the Argentine Atlantic Coast. Nautical Publications are now in paper format, but Argentina is working toward providing them in digital format. Argentina would like to include all of their data in a unique database so the information could be better managed.

5. *Working Group Presentations*

Western European WG (David Acland) – The WEWG has included some UML models in their submission to better describe their work. They have worked through Social Political (Soc Pol), Navigational Marks (Nav Marks) and have started working on the Environment (Enviorn) section, making cuts, but need to continue with their effort.

Northern European WG (Jens Schröder-Fürstenberg) – Significant work has been completed on the Marine Services (Mrne Srvcs) section, and Harbor Infrastructure (Hbr Infrsctrctr) is very close to being complete.

Americas WG (John Nyberg) – The AWG has done work on Hydrographic (Hdrgrphy) and Topographic (Tpgrphy) sections but still needs to work on Traffic Management (Trffc Mngmnt). The AWG followed the Northern European standard for compiling the data.

6.2 *Working Group Review*

The SNPWG began discussion with the Northern European Sub-WG proposal.

Peter Parslow prepared a spreadsheet of proposed and significantly changed object classes. The group decided to use the list as a check list wile working through the Sub-WG submissions. (See document 7-1-2006)

*If the definition does not have a reference, it is considered as defined by the SNPWG.

> **The Northern European Sub-WG proposed new information object-class: <Service hours> (srvhrs)** – The SNPWG determined that days of the week and hours will be recorded and there will be an additional category for "exceptions" like holidays.

> **The Northern European Sub-WG proposed new object-class: <Address> (addres)** – The group decided that the object "address" could not be covered by specific attributes only, so they decided to propose a new object. Discussion on whether this should be a feature object or information object was inconclusive.
> Some SNPWG didn't want to define any of the fields, putting the entire address in a string and others wanted to place all of the address information into attributes. The WG couldn't come to a result, more investigation is needed.

The Northern European Sub-WG **proposed new information object-class: <restrictions on vessels characteristic> (xxxxxx)** – No acronym was assigned. The object is to be used to describe a vessel's characteristics as they are used to describe limits on vessels using a particular service or resource. The object covers both dimensions and category of vessel/cargo. The related attributes have to be aligned with Mariners Information Object (MIO) in AIS context.

The group discussed the attributes associated with the information object (vessel characteristics) and decided to put everything in one information object, rather than splitting it into separate objects.

5- 1 Group Action: Vessel types
Group members should review the list and make suggestions for additions.

5- 2 Action TSMAD (Johannes Melles, Peter Parslow):
M_UNIT – doesn't allow for defining units of weight. Make proposal to TSMAD to add a means for us to report tonnage (W_UNITS).

5- 3 Group Action: Category of Cargo
Group members should add general terms to the cargo list. Items, including definitions, must be sent to Jens Schroder-Furstenberg for addition to the list before the next meetings.

The Northern European Sub-WG **proposed new object-class: <Authority>** – when approaching a harbor area, this would give information regarding the authority for a particular service or procedure. Discussion on whether this should be a feature object, or an information object associated with one of the existing feature objects was inconclusive.

The Northern European Sub-WG **proposed new attribute: <Registration Data> (rgdata)** – the group decided to use the IMO format.

5- 4 Action (Skip Stembel): Registration Data
Mr. Stembel will provide the IMO definitions to Mr. Schroder-Furstenberg.

The Northern European Sub-WG **proposed new attribute: <Category of Authorities> (cataut)** – it was decided to keep the attribute of authority**.**

5- 5 Group Action: Category of Authorities
The group must review and provide missing authorities, with definitions, to Mr. Schroder-Furstenberg. Mr. Acland will provide definition for existing values

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The Northern European Sub-WG proposed new feature object-class: **<Marine Services> (**mrnsrv**)** – The group broke the Marine Service Object into a list of 6 different categories, Vessel Traffic Service, Pilot Service, Port Service, Ship Reporting Service, Broadcast Service, and Litter (rejections from the list). It was decided that it would be a geographic area where the service is provided.

The Northern European Sub-WG proposed new attribute: **<Procedure> (**prcdre**)** – How a mariner may access a service or facility. The group discussed, at length, the possibility of creating a pointer to an external file.

5- 6   Action (Steve Offenback):
Analyze the NGA World Port Index to determine what has been left out of the scope document.

The Western European Sub-WG proposed new feature object-class: **<Port Area> (**prtare**)** – There was significant discussion and some objection to the use of port area, as some group members felt that we should consider amending harbor area and/or harbor facility to satisfy the port area requirement. The group decided to continue developing the port area concept, amending some proposed objects to attributes and put them as new attributes under Port Area

The Northern European Sub-WG proposed new object class: **< Repair > (**repair**)** – It was decided that repair will be an attribute (srvrep) under Port Area.

The Northern European Sub-WG proposed new object class: **< Technical Services > (**tecsrv**)** – It was decided that technical services will be an attribute (srvtec) under Port Area.

The Northern European Sub-WG proposed new feature object-class: **<Berthing assistance> (**berast**)** – Removed quantity.

The Northern European Sub-WG proposed new object-class: **<Medical service> (**medsrv**)** – there was extensive discussion on de-ratting as a medical service.
medical service was deleted and is now a further attribute (srvmed) under Port Area.

5- 7   Action (Alejandro Herrero):
Mr. Herrero will look for an instance where cockroach fumigation is mandatory.

The Northern European Sub-WG proposed new object-class: **<fire brigade> (**firbrg**)**
fire brigade was deleted and is now a further attribute (srvmed) under Port Area.
<srvfbg> was deleted an is now a further attribute (srvfbg) under Port Area

The Northern European Sub-WG proposed new information object-class: **<Telecommunications> (telcom) -** The group discussed telephone standards but decided that it needed more research.
Attributes added to telcom are inter alia: numtel, nmtlao, numfax, adrtlg, emails, adrnet, calnam, chauhf, rtfrqz

The Northern European Sub-WG proposed new attribute: **<Available Berthing Length> (**avlblg**)** – available berthing length for BERTHS, DOCARE

***The Northern European Sub-WG** proposed that*
- PICREP be used with RSCSTA, BERTHS, DOCARE, DRYDOC, GRIDRN.
- VERCLR be used with DRYDOC, FLODOC, GRIDRN, SLCONS
- VERLEN be used with DRYDOC
- DRVAL1 with SLCONS.
- DATEND and DATSTA be used with SMCFAC

These need only be decided in the feature catalogue, which forms part of each product specification.

After discussion based on a NE Sub-WG proposal, it was agreed
- that PILBOP needed additional attributes:
  - o to indicate whether it is the primary or a secondary boarding place
  - o to indicate the type of ship, cargo, hazard etc which can be served there
  - o the service hours
- and that SMCFAC needed to new attributes:
  - o totber - total berths available (to give an idea of the size of a port / marina)
  - o visber - berths availabel for visitors
  - o notice required for medical treatment - to be agreed when the WE Sub-WG proposal is discussed.

5- 8   Action (Christian Jego):
Mr. Jego will research international dialing standards and report to Mr. Schroder-Furstenberg.

5- 9   Action TSMAD (Johannes Melles, Peter Parslow):
Ask TSMAD to consider allowing an object to accept the same attribute multiple times.

5- 10   Action TSMAD (Johannes Melles, Peter Parslow):
The definition of (COMCHA) has to be revisited in TSMAD

5- 11   Action TSMAD (Johannes Melles, Peter Parslow):
Discuss the delimiter between values (when there are more than one, as in a string of phone numbers) in an attribute with TSMAD

Jens Schröder-Fürstenberg collected all attributes and objects from the three sub-working groups, and the SNPWG's progress thus far is:

Objects: from a total of 46 pages we managed to review and compile 18.
Attributes: from a total of 130 pages we managed to review and compile 47.

13.   Presentation from Information Society Technologies – "Beyond Traditional Pilot Book" – Information Society Technologies, a European Consortium presented the work that they are doing on a new Electronic Pilot Display and Information System. The project goals are to produce a 3D viewer providing interactive dynamic visualization of coastlines, harbor entrances, docking areas, channels, and islands as seen from the bridge. (http://www.epdis.de)

9.   Discussion – IHO Feature Data Registry

To begin the second day of the meeting Peter Parslow gave a presentation regarding the S-100 registry to help the group make a better decision regarding the formation of a separate Nautical Pub register.

Should the SNPWG work be part of the Hydro Register or should it be an independent register, on its own?

Tony Pharaoh explained the registry management process and options. If there is a separate register for nautical publications, there needs to be a separate register manager and control body. The point was made that a manager will have to be selected from the IHO or be one of the working group members. If there are many new feature classes that do not fit in with the new S-100, it might be worth having it as a separate register. If there are not, then it could be part of the TSMAD hydro register management group.

Pros & Cons of SNPWG controlling its own register within the IHO registry

Pros	Cons
• SNPWG keeps control • It is easy to make changes • It will be better during the test phase • It will be faster to implement the work • We can ask for an inclusion later (TSMAD) • SNPWG is a smaller WG • It will be a good example for other groups (registers) • The quantity of information is not to heavy to manage	• There may be some duplication of effort • We will not be working as closely with TSMAD • Different Hydrographic Offices may encode the same kind of information in different ways

> **Decision:**
> **The SNPWG came to a consensus and decided to create an independent Nautical Publication register.**

11.   SNPWG work plan between meetings

We will continue the work in the sub-groups. The work on the logical groups given to the SubWGs has to be completed. The work which has been done so far has to be improved. Problems in overlapping areas between the SubWGs must be sorted out.

> **5-12   Action:**
> **The sub-working groups should complete their work by December 31. The exchange of work between the SubWGs is an ongoing task. The proposal to TSMAD should be made after the next SNPWG-meeting.**

12.   IHO Work Programme 2008-2012

The SNPWG is of the opinion that the old IHO Work Programme 2003-2007 is outdated and doesn't reflect the current work of the IHO. SNPWG will provide some text for inclusion in the new IHO Work Programme 2008-2012.

5-13   Action CHRIS (Johannes Melles):
Mr. Melles will prepare a work plan for submission to Robert Ward as an update to the IHO Work Program for the period of 2008 – 2012.

Next Meeting:

Rostock, Germany (February 12-16)

6 th Meeting of the Standardization of Nautical Publications Working Group (SNPWG)
26-30 June 2006, IHB, Monaco

DRAFT AGENDA

No.	Agenda Item	Related Documents
1.	Opening and Administrative Arrangements	
2.	Approval of Agenda	6/001
3.	Matters arising	
3.1	Action Items from SNPWG 5	6/004
4.	Brief National Reports	
5.	Americas SNPWG-SubWG	
5.1	Report	
5.2	Review and Discussion	
6.	Western European SNPWG-SubWG	6/005, 6/006, 6/007, 6/008, 6/009, 6/010, 6/011, 6/012, 6/013
6.1	Report	
6.2	Review and Discussion	
7.	Northern European SNPWG-SubWG	6/014, 6/015, 6/016, 6/017
7.1	Report	
7.2	Review and Discussion	
8.	Harmonisation of the results of the SubWGs	
9.	IHO Feature Data Dictionary Registry	6/018
9.1	Separate Register for Nautical Publications?	
10.	Start preparation of proposal for inclusion in S100	
11.	Work Plan for the SNPWG	6/019
12.	IHO Work Programme 2008-2012	6/020, 6/021
13.	Any Other Business	
14.	Date and place of next meeting	

6 th Meeting of the Standardization of Nautical Publications Working Group (SNPWG)
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LIST OF ATTENDEES

Country	Organization	Name	Institution E-Mail / FAX
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	IHB	Tony PHARAOH	pad@ihb.mc

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.   <mark>Test data</mark>

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

Task	Work Item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-Completed	Contact Person	Affected Pubs/St andard	Remarks
A1	Decide on the Data Structure of NPs-Data intended for use in ECDIS (NP3)	H	Decision for a Data Structure (June 2004)	2003	2004	C	Chair/Sec SNPWG		NP3 Data should be encoded as S-57-objects which were modeled in UML where required.
A2	Look at existing systems on the market	H	June 2004	2003	2004	C	Chair/Sec SNPWG		
A3	Evaluate the pros and cons	H	June 2004	2003	2004	C	Chair/Sec SNPWG		

B1	Examine the content of traditional NPs	M	Content Specs (June 2004)	2004	2006	O	Chair/Sec SNPWG		Which NPs and NP data type should be included in NP3
B2	Proposal discovery and distribution. (meta)	M	Open- No deadline	2004	-	O	Chair/Sec SNPWG		Post discovery information on website
B3	Model the data where required.	H	2006	2004	2007	O	Chair/Sec SNPWG	S-100	To be included in S-100 registry
B4	Review draft content specifications	M	2006	2004	2007	O	Chair/Sec SNPWG	S-100	
B5	Propose amendments for "hydro register" to TSMAD	H	2006	2005	Feb, 2007	P	Chair/Sec SNPWG	S-100	To be included in S-100 registry
B6	Create the "NP Register"	H	2006	2006	2007	P	Chair/Sec SNPWG	S-100	
B7	Populate the NP Register	H	2007	2006	Open	P	Chair/Sec SNPWG	S-100	
B8	Draft Product Specification	M	2007	2007	2008	P	Chair/Sec SNPWG	S-10X	
C1	Produce test data set	M	2007	2007	2008	P	Chair/Sec SNPWG		
C2	Set up a test bed	M	2007	2008	2008	P	Chair/Sec SNPWG		
D1	Develop basic display rules for NP data intended for use in ECDIS (NP3)	M	2007	2007	2008	P	Chair/Sec SNPWG	S52	Close Co-operation with CSMWG required.
E1	Data Capture Guidance	M	2007	2008	2009	P	Chair/Sec SNPWG		Document like Use of the Object Catalog for NPs
F1	Revise technical	L	2008	2008	2008	P	Chair/Sec	M3	

	resolutions						SNPWG		
G1	Liaise with the CSMWG for the development of the display rules	M	2007	2005	<mark>Open</mark>	O	Chair/Sec SNPWG		
G2	Liaise with the TSMADWG	M	2007	2004	<mark>Open</mark>	O	Chair/Sec SNPWG		
G3	Liaise with other relevant WGs	M	2007	2004	<mark>Open</mark>	O	Chair/Sec SNPWG		