**Nautical Information Provision Working Group (NIPWG) Meeting**

**14 – 15 September 2021 – VTC, Worldwide**

Annex A: List of Action Items

Annex B: NIPWG List of Decisions & Action Items Arising from HSSC-13

Annex C: Agenda

Annex D: List of Attendees

**1. Opening and administrative arrangements**

**1.1 Opening remarks**

Eivind MONG opened the NIPWG VTC and by welcoming new and returning members

Logistics were also discussed.

**2. Introductions**

All.

**3. Adoption of Agenda**

NIPWG agreed and adopted the NIPWG September VTC Agenda with slight modifications as circulated

**3.1 Corrections**

None noted.

**4 HSSC Actions (IHO Secretariat and Chair)**

The Meeting took note of the briefing [HSSC List of Decisions & Actions Arising from HSSC-13](https://iho.int/uploads/user/Services%20and%20Standards/HSSC/HSSC13/LIST%20OF%20DECISIONS%20AND%20ACTIONS%20FROM%20HSSC13_31Aug2021.docx) document.

**HSSC 13/11** **– Maintenance of roadmap for S-100 implementation decade.**  **Complete.**

**HSSC Chair** to take note of the proposal from **NIPWG** to ensure that the description and maintenance of Maritime Services in context of e-navigation become part of the S-100 roadmap.

For more details see C-5 document on IHO website.

**HSSC 13/12 – SPIs. Complete.**

With **NIPWG** comments on S-122, S-127, S-128 and S-131 (Section SPIs in Doc. HSSC13-05.3A refers) duly acknowledged, **HSSC Chair** to include recommendations and provisional SPIs values in his report to C-5. This should include explanations on the target values (60% versus 100% for instance for SPI 1.1.2) and clarification on definitions adopted for “operational”.

For more details see C-5 document on IHO website.

**HSSC 13/18** **– S-100 Ed. 5.0.0 S-164 – Funding. Complete.**

**HSSC** noted the request from the **S-100WG and NIPWG** to allocate:

* 15 k€ Euros to assist in updating the UML models for S-100 Edition 5.0.0 and S-101.
* 50-80 k€ of the IHO Special Project Fund to support phase 2 of S-164 development.
* 15 k€ for drafting the Dual-Fuel Concept Governance document.
* 2 x 8 k€ for contracting improvements of S-122 and S-123 product specs.

**IHO Secretariat** to consider this request in the preparation of Budget 2022 once the detailed statements of work are received from proposers.

**HSSC 13/35** - **S-100 System Architecture, IMO’s Maritime Services.**

Noting different expectations, **HSSC** welcomed the offer made by **NIPWG** in liaison with **S-100WG** to complement the S-100 System Architecture by a submission paper addressing the what/how/when the S-100 based products should work together in a future S-100 ECDIS environment.

**Action Item 01 – Chair will draft document for S-100 System Architecture for IMO Maritime Service. RM, YlF, MS, HP, MK will assist,**

**HSSC 13/36 – S-131.**

**HSSC** agreed on the way forward proposed by **NIPWG** to consider the possibility of setting up a digital infrastructure to collect S-131 compliant Harbour Information.

**NIPWG** to provide the necessary data elements description.

**HSSC/IHO Secretariat** to consider the most suitable options for establishing this IHO infrastructure (IHO GIS Infrastructure within which S-131 database is managed).
Possible project to be considered by Joint IHO-SG Lab for experimentation.

**Action Item 02 – Chair and ClG to initiate contact with relevant HSSC WGs and IHMA to review.**

**HSSC 13/37 – Maritime Services, e-navigation.**

**HSSC** tasked **NIPWG** to act as the responsible IHO WG to monitor and contribute to the IMO Expert Group on Data Harmonization (EGDH).

**Action Item 03 – Chair to initiate contact with relevant HSSC WGs [and will also invite IRCC/WWNWS-SC] to review *“Maritime Services in context of e-navigation”* under their remit & provide them to NIPWG for further action if appropriate. Complete by 31 December 2021.**

**HSSC 13/38 – Maritime Services, e-navigation. Ongoing.**

**HSSC** tasked **NIPWG** to act as the responsible IHO WG to monitor and contribute to the IMO Expert Group on Data Harmonization (EGDH).

**HSSC 13/39 – Maritime Services, e-navigation. Closed.**

**HSSC** noted the intention by NIPWG to close the NtM XML workshop topic and to re-open it if it becomes necessary.

**HSSC 13/40 – Scale Dependent (SD)/Scale Independent (SI).**

After having considered an IALA outline paper describing how S-201, S-124, S-125 may work together, **HSSC** tasked **NIPWG** to provide a paper discussing SD/SI data handling aspects.

**Action Item 04 – Chair, Vice Chair, DL and possibly ChG will provide a paper describing how S-201, S-124 and S-125 may work together.**

**HSSC 13/41 –** S-100 Whole Picture**.**

**HSSC** welcomed the offer by **NIPWG** to develop an outline paper, in liaison with **S-100WG**, describing the whole S100 picture in close cooperation with stakeholders, inside and outside the IHO community and with IMO in particular.

**Action Item 05 – Chair and former Chair (JSF) will liaise for better understanding of requirement.**

**5. S-122- Marine Protected Area Product Specification**

**5.1 Status of PS and change request**

No new comments received for changes. SHOM has a few comments that will be added in the coming week.

**5.2 Implementation updates.** **None.**

**6. S-123- Marine Radio Services Product Specification**

**6.1 Status of PS and change request**

No new comments received for changes.

**6.2 Implementation updates**

 **6.2.1 Canada S-123 implementation update (Canada)**

The Meeting took note of the presentation.

**Action Item 06 – Form a task group to prepare updates to S-123 in light of comments received consisting of BS, PS, HA, SJC, RM, JP, CL and possibly ChG. Canadian Coast Guard (not named) will be the task lead.**

 **6.2.2 MAS/Rescue Service consideration (Germany)**

**Action Item 07 – EA will record change considerations for S-123 and S-127.**

**7. S-125 – Marine Navigation Product Specification**

**7.1 Status of PS and change requests**

 **7.1.1 Update from IALA (IALA)**

The Meeting took note of the presentation.

**8. S-126 – Marine Natural Conditions Product Specification**

**8.1 Status of PS**

No comments or inputs to date.

**Action Item 08 – BS and team consisting of JC, ClG, JP, MS, SS, and JS to officially kick off the work and use the NIPWG Wiki to capture work and report back.**

**9. S-127 – Marine Traffic Management Product Specification**

**9.1 Status of PS and change requests**

 **9.1.1 Communications channel for locks, bridges and canals (NGA)**

The Meeting took note of the presentation.

**9.2 Implementation updates**

**10. S-128 – Catalogue of Products**

**10.1 Status of PS development**

The Meeting took note of the presentation and agreed to ask HSSC to approve S-128 as edition 1.

**10.1.1 Classification of product specifications as nautical chart or nautical publication (Furuno)**

The Meeting took note of the presentation

Two questions raised by the paper. First, does NIPWG want to test the existing model as is and then revisit and revise the model after period of evaluation? The second question is classifying charts or pubs into nautical products.

**Action Item 09 – Task group to (YlF (lead), HP, RM, Chair, JP, IK, ChG) draft a NIPWG view on the classification of products by 31 Dec 2021.**

**10.2 Submission to HSSC for approval as Edition 1.0.0**

Discussion focused on submitting the PS to HSSC for approval of Ver. 1.0.0 based on S-100 Ver 4 by 1 October.

**Action Item 10 – Chair to send a letter to HSSC seeking endorsement pointing to the S-128 data package and go forward with testing of the data model by 31 Oct 2021.**

**11. S-131 – Marine Harbour Infrastructure**

**11.1 Status of PS development**

The Meeting took note of the work of the development task group, the presentation and the updated [data model](http://18.132.248.81/f61367edc6ef9ffa928d25168cf47245/v9/). The model needs to be tested and it seems to capture all the important requirements.

**11.2 Submission to Portolan Sciences for Full PS development**

The Meeting agreed to submit the work of the task group to Portolan Sciences after some additional editorial work on the model and data.

**Action Item 11 – Model transferred to Portolan Sciences and version 1.0.0 of PS would be ready by Spring of 2022 taking into consideration of when S-100 Ver 5.0.0 is published.**

**12. Other Business**

The chair noted that it was the last meeting of Tom Loeper as he would be transitioning over to new responsibilities and therefore stepping down as Working Group secretary. The chair thanked Tom for his contributions and wished him all the best for the future.

**Action Item 12 – Chair to issue a NIPWG circular letter inviting interested parties to consider the position of working group secretary.**

**13 Date and place of next meeting**

NIPWG9 is scheduled to be held in Niteroi (Brazil), September 2022

Table of names

|  |  |
| --- | --- |
|  |  |
| BS | Briana Sullivan Ms. (U.S./ UNH) |
| BvS | Ben van Scherpenzeel (NL/ IHMA) |
| DL | Dave Lewald (U.S./ Coast Guard) |
| EA | Elana Armanino (IT/ IIM) |
| EM | Eivind Mong (CA/ Coast Guard) |
| HC | HyunSoo Choi (ROK/KRISO) |
| ClG | Charline Giffard |
| ChG | Christopher Gill |
| IM | Ms Iji (Izzy) Kim (ROK/ KHOA) |
| JS | Jason Strom (U.S./ NGA) |
| JS-F | Jens Schröder-Fürstenberg (GE) |
| MK | Mike Kushla (U.S./ NGA) |
| MS | Matilde Skjaevelard Skår (NO/ NHO) |
| RM | Raphael Malyankar (U.S./ Portolan Sciences) |
| SE | Stefan Engström (FI) |
| S-JC | Shwu-Jing Chang Ms.(Taiwan/ NTOU) |
| SW | Sigbjorn Wik (NO/ NHS) |
| TC | Thomas Christensen (MCP Consortium) |
| TL | Thomas Loeper (U.S./ NOAA) |
| WC | Wang Chao (CN/ MSA) |
| WdT | Wilfred den Toom (NL) |
| YG | Yves Guillam (IHO Secretariat) |

Table of Acronyms

|  |  |
| --- | --- |
| EAHC | East Asia Hydrographic Commission |
| HSSC | Hydrographic Services and Standards Committee |
| M-3 | Resolutions of the International Hydrographic Organization |
| S-49 | Standardization of Mariners’ Routeing Guides |
| S-12 | Standardization of List of Lights and Fog Signals. |
| TSM | Test Strategy Working Group Meeting |

**Annex A: List of Action Items**

|  |  |
| --- | --- |
| **Action** | **Status** |
| Action Item 01 – Chair will draft document for S-100 System Architecture for IMO Maritime Service. RM, YlF, MS, HP, MK will assist, |  |
| Action Item 02 – Chair and CG to initiate contact with relevant HSSC WGs and IHMA to review.  |  |
| Action Item 03 – Chair to initiate contact with relevant HSSC WGs [and will also invite IRCC/WWNWS-SC] to review “Maritime Services in context of e-navigation” under their remit & provide them to NIPWG for further action if appropriate. Complete by 31 December 2021. |  |
| Action Item 04 – Chair, Vice Chair, DL and possibly CG will provide a paper describing how S-201, S-124 and S-125 may work together. |  |
| Action Item 05 – Chair and former Chair (JSF) will liaise for better understanding of requirement.  |  |
| Action Item 06 – Form a task group to prepare updates to S-123 in light of comments received consisting of BS, PS, HA, SJC, RM, JP, CL and possibly CG. Canadian Coast Guard (not named) will be the task lead. |  |
| Action Item 07 – EA will record change considerations for S-123 and S-127. |  |
| Action Item 08 – BS and team consisting of JC, CG, JP, MS, SS, and JS to officially kick off the work and use the NIPWG Wiki to capture work and report back. |  |
| Action Item 09 – Task group to (YlF (lead), HP, RM, Chair, JP, IK, CG) draft a NIPWG view on the classification of products by 31 Dec 2021. |  |
| Action Item 10 – Chair to send a letter to HSSC seeking endorsement pointing to the S-128 data package and go forward with testing of the data model by 31 Oct 2021. |  |
| Action Item 11 – Model transferred to Portolan Sciences and version 1.0.0 of PS would be ready by Spring of 2022 taking into consideration of when S-100 Ver 5.0.0 is published. |  |
| Action Item 12 – Chair to issue a NIPWG circular letter inviting interested parties to consider the position of working group secretary. |  |

**Annex B: NIPWG List of Decisions & Action Items Arising from HSSC-13**

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| **5.3** **Nautical Information Provision (NIPWG)** |
| 5.3 | S-100 System Architecture, IMO’s Maritime Services | HSSC13/35 | Noting different expectations, **HSSC** welcomed the offer made by **NIPWG** in liaison with **S-100WG** to complement the S-100 System Architecture by a submission paper addressing the what/how/when the S-100 based products should work together in a future S-100 ECDIS environment. | **HSSC-14** |  |
| 5.3 | S-131 | HSSC13/36 | **HSSC** agreed on the way forward proposed by **NIPWG** to consider the possibility of setting up a digital infrastructure to collect S-131 compliant Harbour Information.**NIPWG** to provide the necessary data elements description.**HSSC/IHO Secretariat** to consider the most suitable options for establishing this IHO infrastructure (IHO GIS Infrastructure within which S-131 database is managed).Possible project to be considered by Joint IHO-SG Lab for experimentation. | **HSSC-14****HSSC-14/-15** | DecisionIn progress |
| 5.3 | Maritime Services, e-navigation | HSSC13/37(former HSSC12/32, HSSC11/36) | **HSSC** tasked the responsible **HSSC WGs** [and will invite also the **IRCC/WWNWS-SC**] to review the initial descriptions of “*Maritime Services in context of e-navigation*” under their remit and to provide them to **NIPWG** for further action if appropriate.**NIPWG** to send reminders as appropriate. | **Permanent****Deadline to be confirmed by NIPWG** |  |
| 5.3 | Maritime Services, e-navigation | HSSC13/38 | **HSSC** tasked **NIPWG** to act as the responsible IHO WG to monitor and contribute to the IMO Expert Group on Data Harmonization (EGDH). | **Permanent** |  |
| 5.3 | NtM XML | HSSC13/39 | **HSSC** noted the intention by NIPWG to close the NtM XML workshop topic and to re-open it if it becomes necessary**.** |  | Decision |
| 5.3 | Scale Dependent (SD)/Scale Independent (SI) | HSSC13/40 | After having considered an IALA outline paper describing how S-201, S-124, S-125 may work together, **HSSC** tasked **NIPWG** to provide a paper discussing SD/SI data handling aspects. | **HSSC-14** |  |
| 5.3 | S-100 Whole Picture | HSSC13/41 | **HSSC** welcomed the offer by **NIPWG** to develop an outline paper, in liaison with **S-100WG**, describing the whole S100 picture in close cooperation with stakeholders, inside and outside the IHO community and with IMO in particular. | **HSSC-14** |  |
| 5.3 | Acknowledgments | HSSC13/42 | Following **NIPWG** analysis, **HSSC** agreed that the provision of acknowledgments on IHO publications is on editing IHO bodies’ discretion. |  | Decision |
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**Annex C: Agenda**

1. Welcome (chair)
2. Introductions (all)
3. Adoption of agenda (chair)
4. HSSC actions (IHO Secretariat and chair)
5. S-122 – Marine Protect Area Product Specification
	1. Status of PS and change requests
	2. Implementation updates
6. S-123 – Marine Radio Services Product Specification
	1. Status of PS and change requests
	2. Implementation updates
		1. Canada S-123 implementation update (Canada)
		2. MAS/Rescue Service considerations (Germany)
7. S-125 – Marine Navigational Services
	1. Status of PS development
		1. Update from IALA (IALA)
8. S-126 – Marine Natural Conditions
	1. Status of PS development
9. S-127 – Marine Traffic Management
	1. Status of PS and change requests
		1. Communication channel for locks, bridges and canals (NGA)
	2. Implementation updates
10. S-128 – Catalogue of Products
	1. Status of PS development
		1. Classification of product specifications as nautical chart or nautical publication (Furuno)
	2. Submission to HSSC for approval as Edition 1.0.0
11. S-131 – Marine Harbour Infrastructure
	1. Status of PS development
	2. Submission to Portolan Sciences for drafting full PS
12. Any other business

**Annex D: List of Attendees**

| Participant | Country | Organization |
| --- | --- | --- |
| Juan FRIAS | Argentina | ? |
| PONTES | Brazil | DHN |
| Charlene GIFFARD | Canada | CANADIAN HYDROGRAPHIC SERVICE (CHS) |
| Eivind MONG | Canada | CANADIAN COAST GUARD (CCG) / CHAIR |
| Hugh ASTLE | Canada | Teledyne Caris |
| Jens Søe CHRISTIANSEN | Denmark | DANISH GEODATA AGENCY - GEODATASTYRELSEN (GST) |
| Jakob CHRISTENSEN | Denmark | DANISH GEODATA AGENCY - GEODATASTYRELSEN (GST) |
| Stefan ENGSTRÖM | Finland | FINNISH TRANSPORT AGENCY HYDROGRAPHIC OFFICE / VICE-CHAIR |
| Hannu PEIPONEN | Finland | International Electrotechnical Commission |
| Yves LE FRANC | France | SERVICE HYDROGRAPHIQUE ET OCEANOGRAPHIQUE DE LA MARINE |
| Jens SCHRÖDER-FÜRSTENBERG | Germany | BUNDESAMT FUR SEESCHIFFFAHRT UND HYDROGRAPHIE (BSH) |
| Philipp SCHWEDAS | Germany | BUNDESAMT FUR SEESCHIFFFAHRT UND HYDROGRAPHIE (BSH) |
| Elena ARMANINO | Italy | ISTITUTO IDROGRAFICO DELLA MARINA |
| Reina HATA | Japan | HYDROGRAPHIC AND OCEANOGRAPHIC DEPARTMENT |
| Kazufumi MATSUMOTO | Japan | HYDROGRAPHIC AND OCEANOGRAPHIC DEPARTMENT |
| Tatsuru KINOSE | Japan | HYDROGRAPHIC AND OCEANOGRAPHIC DEPARTMENT |
| Yves GUILLAM | Monaco | Member of Staff |
| Jeff Wootton | Monaco | Member of Staff |
| Yong Baek | Monaco | Member of Staff |
| Wilfred DEN TOOM | Netherlands | HYDROGRAPHIC SERVICE - ROYAL NETHERLANDS NAVY |
| Ben van SCHERPENZEEL | Netherlands | Port of Rotterdam / International Harbour Master Association |
| Mathilde Skjæveland SKÅR | Norway | NORWEGIAN HYDROGRAPHIC SERVICE |
| Svein SKJÆVELAND | Norway | PRIMAR |
| Areum SHIN | Republic of Korea | KOREA HYDROGRAPHIC AND OCEANOGRAPHIC AGENCY (KHOA) |
| Chungho LEE | Republic of Korea | KOREA HYDROGRAPHIC AND OCEANOGRAPHIC AGENCY (KHOA) |
| Iji KIM | Republic of Korea | KOREA HYDROGRAPHIC AND OCEANOGRAPHIC AGENCY (KHOA) |
| Hyunsoo CHOI | Republic of Korea | Korea Research Institute of Ships & Ocean Engineering (KRISO) |
| Christopher GILL | United Kingdom | UNITED KINGDOM HYDROGRAPHIC OFFICE |
| Andrew RICHARDSON | United Kingdom | UNITED KINGDOM HYDROGRAPHIC OFFICE |
| Jonathan PRITCHARD | United Kingdom | IIC Technologies |
| Tom LOEPER | United States of America | OFFICE OF COAST SURVEY / NATIONAL OCEAN SERVICE (OCS/NOS) / SECRETARY |
| R. David LEWALD | United States of America | United States Coast Guard / IALA |
| Michael KUSHLA | United States of America | NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY DEPARTMENT OF DEFENSE (NGA) |
| Jason STROM | United States of America | NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY DEPARTMENT OF DEFENSE (NGA) |
| Raphael MALYANKAR | United States of America | Portolan Services |
| Briana SULLIVAN | United States of America | University of New Hampshire |
| SHWU-JING CHANG | Taiwan | National Taiwan Ocean University |