**Agenda (draft)**

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| **4th Meeting of the Nautical Information Provision Working Group (NIPWG)****In conjunction with the visualisation of nautical information workshop****22–26 May 2017, Durham (New Hampshire), USA** |

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| **No.** | **Agenda Item** | **Lead** | **Time** | **Docs** |
|  | **Monday, 22 May Forenoon (Visualisation Workshop)** |  |  |  |
| 1. | Opening and administrative arrangements | JS-F | 9 am |  |
|  | Opening address on behalf of the UNH |  |  |  |
| 2. | Adoption of the Agenda | JS-F |  | 4-2 |
|  | Interaction of HSSC/IRCC ProdSpec |  |  |  |
| **W1** | Introduction to the workshop and Demos | BS | 9:20 am |  |
| **W2** | Demo Outline |  |  |  |
| S-122 MPA | Anthropocene Institute: test-bed for MPA display | VZ | 9:25 am |  |
| S-126 (phys. env), mariner services, routing guide, harbour infrastructure | NO: 1. Web-based presentation of Norwegian Pilot information  2. Web-based NPUB provision and (Cyber) Security  | AP | 09:45 am | WP2-3 |
| UNH: iCPilot | BS | 10:00 am |  |
| S-124Nav Warnings | Canada: Nav Warning system of the future | EM | 10:15 am | WP2-5 |
|  | *BREAK* |  | 10:45 am |  |
| NTM Viewers(S-1xx) | KHOA - Service for Safety navigation | IP | 11:00 am |  |
| DK: „Nautical information provision in the digital Danish Port and Bridge Information System (www.danskehavendolds.dk )” | PA | 11:20 am |  |
| UNH - ChUM - Chart Updates Mashup | BS | 11:40 am |  |
| (JHOD) - NTM and NAVAREA viewer  | KN | 12:00 pm |  |
| Multiple products viewed together | BaRoView (KHOA) multiple datasets in 3D | IP | 12:20 pm |  |
|  | *LUNCH – Holloway Commons Meal Hall UNH MUB* |  | 12:40 pm |  |
|  | **Monday, 22 May Afternoon (Visualisation Workshop)** |  |  |  |
| **W3** | S-111/S-112 current/tide data examples/discussion | BS | 1:30 pm |  |
|  | S-412 weather data examples/discussion | JP | 1:45 pm |  |
|  | US eMSI group needs/concerns discussion | BT | 2:15 pm |  |
|  | *BREAK – Group Pictures* |  | 3pm |  |
|  | Open Discussion on following topics* description of use cases of the data,
* what is needed? (by HOs)
* what users want to see (by OEM)
 | JS-F | 3:20 pm |  |
| User requirements | * *END OF DAY 1*
 |  | 5 pm |  |
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| **No.** | **Agenda Item** | **Lead** | **Time** | **Docs** |
|  | **Tuesday, 23 May Forenoon (Visualisation Workshop)** |  |  |  |
| **W4** | Production systems: Examples and Questionnaire Results  | JS-F | 9 am |  |
|  | US Coast Pilot system | TL | 9:15 am |  |
|  | US Production system | TL | 9:45 am |  |
|  |  BSH Publication system | JS-F | 10:15 am |  |
|  |  Data provision (level of granularity pro/cons) | JS-F | 10:30 am |  |
|  | *BREAK tour of the Data Visualization Research Lab* |  | 10:45 am |  |
|  | Organized Discussion on HO’s current systems* Similarities
	+ Where are there similarities between the HO’s production systems?
	+ Similarities between the current NIPWG data models and HO’s data.
 | JS-F/BS | 11:00 am |  |
|  | * Needs
	+ What are the specific data elements requested by HOs which must be provided to the mariner?
	+ Identification of gaps between the outline and the request of HOs
 | JS-F | 11:40 am |  |
|  | *LUNCH – Memorial Union Building Dining Hall* |  | 12:20 pm |  |
|  | **Tuesday, 23 May Afternoon (Visualisation Workshop)** |  |  |  |
|  | * Execution
	+ How do HO’s make it happen?*how to get from the current format(s) to a S-100 conformant structure*
	+ How do the attributes and features discussed in the meetings tie into the final product that is expected from the product specifications developed?
 | JS-F | 1:30 pm | WP4-3Annex AAnnex BAnnex C |
| **W5** | Brainstorming* Visual outputs in ECDIS, Discussion of graphical solutions and open topics left from previous sessions
 | JS-F | 2:10 pm |  |
|  | *END OF DAY 2* |  | 4:00 pm |  |
|  | Evening Excursion UNH facilities (survey/research boat) and Group Dinner (attendee’s expense and shared transport costs) |  |  |  |
|  | *END OF DAY 2* |  | 8:00 pm |  |

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| **No.** | **Agenda Item** | **Lead** | **Time** | **Docs** |
|  | **Wednesday, 24 May Forenoon (Visualisation Workshop)** |  |  |  |
|  | Summary of the lessons learned from M-T | JS-F | 9 am |  |
| **W6** | Technical WorkshopObjective: each HO leaves with their MPA data mapped to current S-122 data structure.* Introduce the NIPWG Wiki site
* Introduce the IHO registry
* Show how NIPWG Wiki and IHO registry work together
 | JS-F/BS | 9:20 am |  |
|  | *BREAK* |  | 10:20 am |  |
|  | * Walk through the S-122 XSD file to create S-122 GML (product)
* open discussion about the mappings and questions about the data structure, verify that all needs are met
 | BS/VZ | 10:35 am | WP6-2 |
| **W7** | Review of the Workshop results* Results achieved
* Items which have not been discussed
 | JS-F | 11:35 am |  |
|  | *END OF WORKSHOP* |  |  |  |
|  | *LUNCH – Thai Smile* |  | 12:30 pm |  |

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|  | **Wednesday, 24 May Afternoon (NIPWG general issues)** |  |  |
| 3. | Minutes of NIPWG3 | TL | 4-3 |
| 3.1 | Amendments to the minutes | TL |  |
| 3.2 | Review of Action Items from NIPWG3 | TL |  |
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| 4 | NIPWG status of work (overview) | JS-F | 4-4 |
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| 6 | S-100 related information |  |  |
| 6.1 | Outcome of the S-100WG meeting | Mrs. JP | 4-6.1 |
| 8 | M-3 |  |  |
| 8.1 | Outcome of the impact paper | JS-F | 4-8.1 |
| 8.2 | Discussion on the paper | JS-F |  |
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| **No.** | **Agenda Item** | **Lead** | **Documents** |
|  | **Thursday, 25 May Forenoon (NIPWG ProdSpecs)** |  |  |
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| 11 | Marine Protected Area Product Specification (S-122) |  |  |
| 11.1 | Presentation of the Product Specification (contracted) | EM+RM | 4-11.1+12.1Annex AAnnex B |
| 11.2 | Discussion on the paper | JS-F |  |
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| 12 | ProdSpec Radio Services (S-123) |  |  |
| 12.1 | Presentation of the Product Specification (contracted) | EM+RM | 4-11.1+12.1 Annex AAnnex B |
| 12.2 | Discussion on the paper | JS-F |  |
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| 13 | Interoperability of S-100 based Product Specifications |  |  |
| 13.1 | Update on the development status | Mrs. JP | 4-13.1 |
| 13.2 | Discussion on the paper | JS-F |  |
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|  | **Thursday, 25 May Afternoon (NIPWG ProdSpecs)** |  |  |
| 14 | ProdSpec Navigational Services (S-125) |  |  |
| 14.1 | Feedback of the S-101SubWG and IALA ENAV Committee on addresses data model gaps | SE | 4-14.1 |
| 14.2 | Feedback of the S-100WG on Marine Resource Name request | Mrs. JP | 4-14.2 |
| 14.3 | Discussion on the paper | JS-F |  |
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| 15 | ProdSpec Physical Environment (S-126) |  |  |
| 15.1 | Status report for HSSC9, added values of S-126 items | WdT | 4-15.1Annex A |
| 15.2 | Discussion on the paper | JS-F |  |
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| 17 | ProdSpec Traffic Management (S-127) |  |  |
| 17.1 | Addition of UKC information  | MK | 4-17.1Annex AAnnex BPresentation |
| 17.2 | Result of the Application Schema (UML) development | MK+SE+JS-F | 4-17.2 |
| 17.3 | Discussion on the paper | JS-F |  |
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| 19 | ProdSpec Catalogue of Nautical Products (S-128) |  |  |
| 19.1 | Presentation of the work status | IP | 4-19.1 |
| 19.2 | Discussion on the paper | JS-F |  |
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| **No.** | **Agenda Item** | **Lead** | **Documents** |
|  | **Friday, 25 May Forenoon (NIPWG e-nav)**  |  |  |
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| 41 | MSC/ NCSR |  |  |
| 41.1 | Presentation of the results related to NIPWG work | JS-F | 4-41.1 |
| 41.2 | Discussion of what is relevant for NIPWG work | JS-F |  |
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| 43 | IMO’s e-Navigation Maritime Service Portfolio Discussion |  |  |
| 43.1 | Presentation of the status | JS-F | 4-43.1 |
| 43.2 | Discussion of the development coordination | JS-F |  |
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| 45 | IMO’s e-Navigation strategy |  |  |
| 45.1 | Summary of the recent IALA eNAV meeting(s) | JE | 4-45.1 |
| 45.2 | Status of the e-Navigation services (MSPs) developments | JE | 4-45.2 |
| 45.3 | Tentative Overview on the IMO’s Maritime Service Portfolio Program | JS-F | 4-45.3Annex |
| 45.4 | Discussion of the potential NIPWG contributions | J S-F |  |
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|  | **Friday, 25 May Afternoon (NIPWG general issues)** |  |  |
| 50 | ToR review  | MK;J S-F | See NIPWG website |
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| 53 | Work plan for the NIPWG (status of HSSC8 action items) | JS-F | See NIPWG and HSSC websites |
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| 55 | Election of the new office bearer  |  |  |
| 55.1 | Nominees and election procedure | JS-F | 4-55.1 |
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| 57 | Any other business |  |  |
| 57.1 | Review of IHO NIPWG website (Miscellaneous / Divers table) | JS-F | 4-57.1 |
| 57.2 | Review of the IHMA Port Call Standards | ML | 4.57.2Annex |
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| 59 | Dates and places of next meeting(s) | JS-F |  |
|  | NIPWG 5 March/April 2018 Italy/GenovaNIPWG 6 January 2019 Germany/RostockNIPWG 7 November 2019 Russian Federation/ Vladivostok or St. PetersburgNIPWG 8 September 2020 France/Brest (tbc) |  |  |
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| AP | Anniken Puntervold (NO/ NHS) |
| BS | Briana Sullivan (U.S./ UNH) |
| BT | Brian Tetreault (U.S./ USACE) |
| EM | Eivind Mong (Portolan Sciences) |
| IP | Inyoung Park(KHOA/ ROK) |
| JE | Jon Leon Ervik, (NO, IALA rep) |
| Mr. JP | Joe Phillips (U.S./ NOAA) |
| Mrs. JP | Julia Powell (U.S./NOAA) |
| JS-F | Jens Schröder-Fürstenberg (GE) |
| KN | Kenji Naito (JP) |
| MK | Mike Kushla (U.S./ NGA) |
| ML | Malin Liljenborg (SE) |
| PA | Pelle Aagaard (DK)  |
| RM | Raphael Malyankar (Portolan Sciences) |
| SE | Stefan Engström (FI) |
| TL | Thomas Loeper (U.S./ NOAA) |
| VZ | Virgil Zetterlind (U.S./ Anthropocene Institute)  |
| WdT | Wilfred den Toom (NL) |
| YG | Yves Guillam (IHB) |

Work sessions:

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| Monday | Tuesday | Wednesday | Thursday | Friday |
| 0900–1030 | 0900–1030 | 0900–1030 | 0900–1030 | 0900–1030 |
| 1045–1240 | 1045–1220 | 1045–1200 | 1045–1200 | 1045–1200\* |
| 1340–1500 | 1330–1500 | 1330–1500 | 1330–1500 | 1330–1500\* |
| 1515–1700 | 1515–1600 | 1515–1800 | 1515–1800 |  |

\* It has been proposed to continue the forenoon session without lunch break and close the meeting earlier.