



# Hydrographic Services and Standards Committee

## Report of the Nautical Information Provision Working Group to HSSC8, Monaco, Nov 2016

Presented by Mr. Jens Schröder-Fürstenberg (NIPWG Chair)

# Activities and achievements

- ✦ Participation

- 20 Member States, 5 industry members,  
1 training institute, 2 academic

- ✦ Meetings

- March 2016, Monaco



# Working Group Participation and Composition

## Activities and achievements (cont.)

- ✦ Developments of NPUB Product Specs
- ✦ Developments of data quality model extension for NPUB
- ✦ Harmonisation of cable protection information
- ✦ Discussion on new ProdSpec candidates
- ✦ Contributions to e-Navigation
- ✦ Monitoring of IALA AtoN activities





# **S-122 (MPA) – development**

# S-122 Achievements

- ✦ Review of the data model
- ✦ Completion of the application schema
- ✦ Next draft version of the DCEG
- ✦ Adding data model components to the HYDRO register.
- ✦ Development of the Feature Catalogue



## S-122 – outstanding issues

- ✦ DQWG; Quality Data section, under development
  - Extension to DQWG model under consideration
- ✦ NCWG; portrayal section, pending
  - Workshop will be initiated
- ✦ S-101 DCEG Sub-WG; data harmonisation



The background is a detailed nautical chart of a coastal region, likely in Antarctica given the names like 'Kestawick' and 'Micklefirth Channel'. The chart includes depth soundings, navigational aids, and various seabed labels such as 'mud', 'sand', 'clay', 'rock', and 'coral'. A large, semi-transparent grey oval is centered over the chart. Overlaid on this are several pink dashed lines with arrows, indicating a specific path or boundary. Three black arrows originate from the text blocks and point towards different parts of the map: one points to the top left, another to the top right, and a third to the bottom right.

# Data quality

**Developed for fuzzy areas**  
**Expanded for all NPUB information**  
**Extension to DQWG model**



A photograph of two dolphins leaping from the ocean surface. The dolphins are captured mid-jump, with their bodies arched and tails still in the water, creating a splash. The background is a clear, bright blue sky. The dolphins' skin is a mix of light grey and white, with darker patches on their tails.

**Temporal information  
Communication information  
Data quality information**

**Harmonisation is essential**



An aerial photograph of the Monaco Grand Prix circuit. The image shows the track with its characteristic white and black checkered pattern, red and white curbs, and various safety barriers. Several people in orange and black uniforms are visible on the track, along with a white box labeled 'MONACO GRANDPRIX'. A red Formula 1 car is blurred in the foreground, indicating high speed. The text is overlaid on a semi-transparent grey background.

**Various dependencies  
Estimated date is according  
to the S-101 completion  
Next update at HSSC9**

**Completion schedule**

# Other NPUB ProdSpecs Status

Product specs under development	MS Word Test data sample	Data model	Mapping	Application schema
S-123 Radio Service	stable	drafted	drafted	In progress
S-125 Navigational Service	in progress	drafted		
S-126 Physical Environment	stable	drafted		
S-127 Traffic Management	stable	drafted	drafted	
S-128 Catalogue of Nautical Information	In progress			



# Cable protection information

# ProdSpec for regulatory information

- ✦ Information issued by international or intergovernmental organisations
  - Effects on ship's equipment
  - Effects on ship's manning
  - Effects on ship's handling

# Maintenance of IHO standards and miscellaneous publications

- ✦ Proposals for M-3 are under consideration



A detailed photograph of a ship's engine room control board. The panel is densely packed with various instruments, including numerous analog gauges with white faces and black markings, some with yellow or red highlights. There are several large, ornate brass steering wheels. A prominent red emergency stop button is visible on the right side. The background shows various pipes and mechanical components of the engine room.

# **MSP Hydrographic Services**

## **NIPWG and e-Navigation**

# NIPWG and IMO e-navigation

- ✦ Display of information received via communication equipments
- ✦ Harmonised display of navigational information

# Monitor IALA activities on AtoN

- ✦ IALA recognises the use of Navigational Unique Identifiers – NIPWG monitoring
  - IALA seeks to include VTS and Waterways
- ✦ Schema for Persistent Unique Identifiers adopted by S-100



## Action requested from HSSC

- ✦ Note Chairman's report and NIPWG's submission: HSSC8-05.4A
- ✦ Confirm the development schedules for
  - S-122 Marine Protected Area
  - S-123 Radio Services
- ✦ Endorse new ProdSpec for regulatory information
  - Assign the development to a HSSC WG
- ✦ Endorse the continuance of the Work Plan