

Report of the Baltic Sea and North Sea Marine Spatial Data Infrastructures Working Group (BS-NSMSDIWG)

25th Baltic sea Hydrographic Commission Conference
22 September 2020 – Video Conference



**BALTIC SEA
HYDROGRAPHIC
COMMISSION**



**NORTH SEA
HYDROGRAPHIC
COMMISSION**

The Baltic Sea and North Sea Marine Spatial Data Infrastructure Working Group (BS-NSMSDIWG) online meeting No. 8 took place August 24 - 25 2020.




MS from the North Sea Hydrographic Commission and the Baltic Sea Hydrographic Commission participated in the meeting.

Focus areas at the The Baltic Sea and North Sea Marine Spatial Data Infrastructure Working Group (BS-NSMSDIWG) online meeting No. 8.

Day 1:

- The national SDI cooperation
- INSPIRE
- EMODnet
- The framework for maritime spatial planning in Europe (MSP-directive)
- UN-GGIM Working Group on Marine Geospatial Information
- OGC Marine Domain Working Group

- 
- S-121 for maritime limits and boundaries
 - EMODnet Bathymetry

Day 2:


- Overview of the BSR MSP Data ESG works.
- Introduction to the Baltic MSP data services.
- (BASEMAPS, HELCOM Map and Data Service, EU MSP Technical Expert Group on Data for MSP.
- The EMODNET-MSP perspective and the new EU data strategy.
- Pan North and Baltic MSP project
- DigiTwin Northsea – MSP Challenges.

A new call for EMODnet bathymetry

Globalview
Data and products
Generating the DTM
User interface
Worldwide collaboration

EMODnet Bathymetry: Consortium

- 41 collaborating European organizations
 - Hydrographic Offices




 - Research Institutes


 - Small and medium-sized enterprises



If interested contact SHOM =>
Thierry.Schmitt@shom.fr



BATHYMETRY

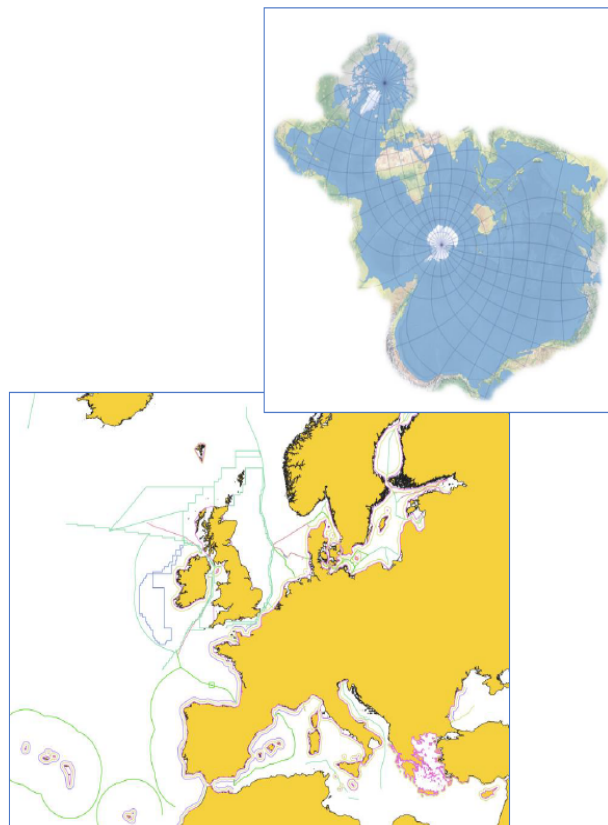
Understanding the topography of the European seas



S-121. Maritime limits and boundaries

Why is this important - MSDI

- A regional MSDI must be built on a foundation of binding legislation within member states and treaties agreeing boundaries between them.
- Many MSDI activities partition human activity in the marine space
 - Marine Spatial Planning
 - Environmental agreements
 - Fishing Zones
 - Marine Cadastre
 - Energy Production
 - Maritime transport routes and traffic flows,
 - Military training areas,
 - Marine protected areas,
 - Scientific research,
 - Submarine cable and pipeline routes,
 - Tourism,
 - Underwater cultural heritage
- These activities ALL use Maritime Limits and Boundaries features as the foundation for their legal and spatial extents.
- S-121 provides a standard to hold and exchange this data



It was agreed that the BS-NSMSDIWG should investigate how the BSHC and NSHC could work with S-121 and if it was possible and desirable to establish at pilot project with the North Sea and Baltic Sea as an S-121 testbed.

HELCOM presentation



EU MSP Technical Expert Group on Data

- Established by **EASME** and **DG MARE** in 2020
 - Chair Andrej Abramic (ULPGC), co-chair Joni Kaitaranta (HELCOM)
- Tasks according to ToR
 1. Work across sea basins to identify the needs in the area of MSP data for implementation;
 2. Produce guidelines (not mandatory) on necessary data, standards for MSP and links this activities with other relevant policies (MSFD, INSPIRE, COPERNICUS, EMODnet, etc);
 3. Work on standard parameters that allows MSP plans to be harmonized across sea basin regions and across EU, if possible in line with the INSPIRE Directive;
 4. Assist in the production of a European portal containing information on MSP plans.
- Currently focus is on developing data format and vocabulary for “**MSP output data**” for the whole Europe (feeding into tasks 3 and 4)
- Group is organized to subgroup 1 (for Tasks 1-2) and subgroup 2 (for Tasks 3-4)

Baltic Marine Environment Protection Commission

To investigate the possibilities to establish a joint online meeting between the EU MSP Technical Expert group on data and the BS-NSMSDIWG in order to share information and to identify areas of cooperation

Pan North and Baltic MSP project

eMSP North & Baltic Seas 2030 project

ecosystem based approach, electronic, effective ocean governance, eu biodiversity & green deal, economic blue development, and enhancing climate change management in MSP

An idea to discuss and take forward...

Lodewijk.abspoel@minienw.nl

9 July 2020 – adjusted following webex meeting 8 July



The BS-NSMSDIWG should follow the EU project eMSP in order to investigate possibilities for cooperation

Ambition of the call

Applicants are required to address the following priorities in their proposals:

1. Support the work of MSP competent authorities and/or inter-ministerial bodies in the establishment and adoption of [ecosystem based] maritime spatial plans;
2. Where relevant, support the development of cross-border cooperation on MSP with bordering Member States and third countries with a view to ensure that maritime spatial plans are coherent and coordinated across marine regions concerned;
3. Making use of the best available data and organise the sharing of information, necessary for maritime spatial plans, by using relevant mechanism and tools (e.g. INSPIRE, EMODNet).



BS-NSMSDI hackathon

BS-NSMSDIWG Marine SDI Hackathon

Use cases:

- Windfarm Siting
- Marine Protected Areas
- Fishery management

Time schedule

Use cases Requirements

- MSDI principles
- A cross-border approach (ref. MSFD, artikkel 13)
- A cross-domain approach
- Inter disciplines
- Based on authoritative sources
- EU MSP principles
 - land-sea interactions;
 - the ecosystem-based approach;
 - coherence between MSP and other processes such as integrated coastal management;
 - the involvement of stakeholders;
 - the use of best available data;
 - transboundary cooperation between Member States;
 - and cooperation with third countries
- NPA; https://www.emodnet.eu/sites/emodnet.eu/files/public/Noth_Sea/more%20SDI%20and%20SDI.pdf
- Ref. kap. 3

Additional information

- Tjenestebasert
- Bruk av statistikk / tidsserier
- Metadatastøtte
- Bruk av tidsdimensjon
- Aktiv bruk av attributter (filtering, osv)
- Lenking av informasjon

Questions/Evaluation

Deliverables:

Solutions

- Use of marine data
- Development of relevant tools
- Development of a visualization tool

Evaluation of MSDI principles

- Findable
- Accessible
- Interoperability
- Re-usable
- Quality of:
 - Metadata
 - Geospatial data
 - Web services
- General challenges
- Suggestions for improvements

Main resources

- National MSDI
- EMODnet
- INSPIRE
- HO-datasets (core data)
- Authoritative datasets

It was decided to continue the planning of a MSDI Hackathon but due to lack of resources it should be a small scale MSDI Hackathon with HO data and the possibility to cooperate with relevant university and/or stakeholders should be investigated as the possibility to have an online MSDI Hackathon.

Draft Work plan for BS-NSMSDIWG 2021 - 2024

Theme	Subject	Responsible action item
Task 1. Work item: Common understanding	<ul style="list-style-type: none"> - Establish a framework for common understanding of MSDI - The opportunities and challenges from a national and regional MS perspective - Definition of HO role in MSDI 	
Task 2. Work item: Liaison with external projects	<ul style="list-style-type: none"> - Identify relevant use cases for MSDI - Analyse the user need for relevant HO data set - Identify relevant EU projects and WG's with relevance for BS-NS MS 	
Task 3. Work item: S 100	<ul style="list-style-type: none"> - Conduct a study on visualization of S-100 datasets from a MSDI perspective (Non navigation) - Investigate the possibility to establish a regional S-121 testbed - Evaluate on how to promote S-100 in the Baltic and North Sea 	
Task 4. Work item INSPIRE	<ul style="list-style-type: none"> - Study on IHO standard S 57 in relation to INSPIRE - The difference between S 57 and S 100 - Identify the challenges with S-102 on interoperability with INSPIRE 	
Task 5. Work item: Hydrographic data and legal aspects	<ul style="list-style-type: none"> - Study on status on implementation and responsibility with relevance to MSDI in the Baltic and North Sea countries 	
Task 6. Work item: Pilot projects/demonstration	<ul style="list-style-type: none"> - Study on the possibility to establish BS-NSMSDI WEB pages - Demonstration project (e.g. S-121 testbed and use of BS-NS MSDI datasets) - WEB GIS demonstrator with BS-NS HO datasets 	

Action requested of BSHC 25.

The BSHC 25 is invited to:

- a. Note the report;
- b. Approve the new draft work program 2021-2024
- c. Take note of the new EMODnet call for bathymetry and MS to report to SHOM (Thierry.Schmitt@shom.fr) if they wanted to participate.
- d. Discuss whether the BS-NSMSDIWG should investigate the possibilities to establish a pilot project focusing on S-121 data as a testbed.
- e. Take any other action as appropriate.